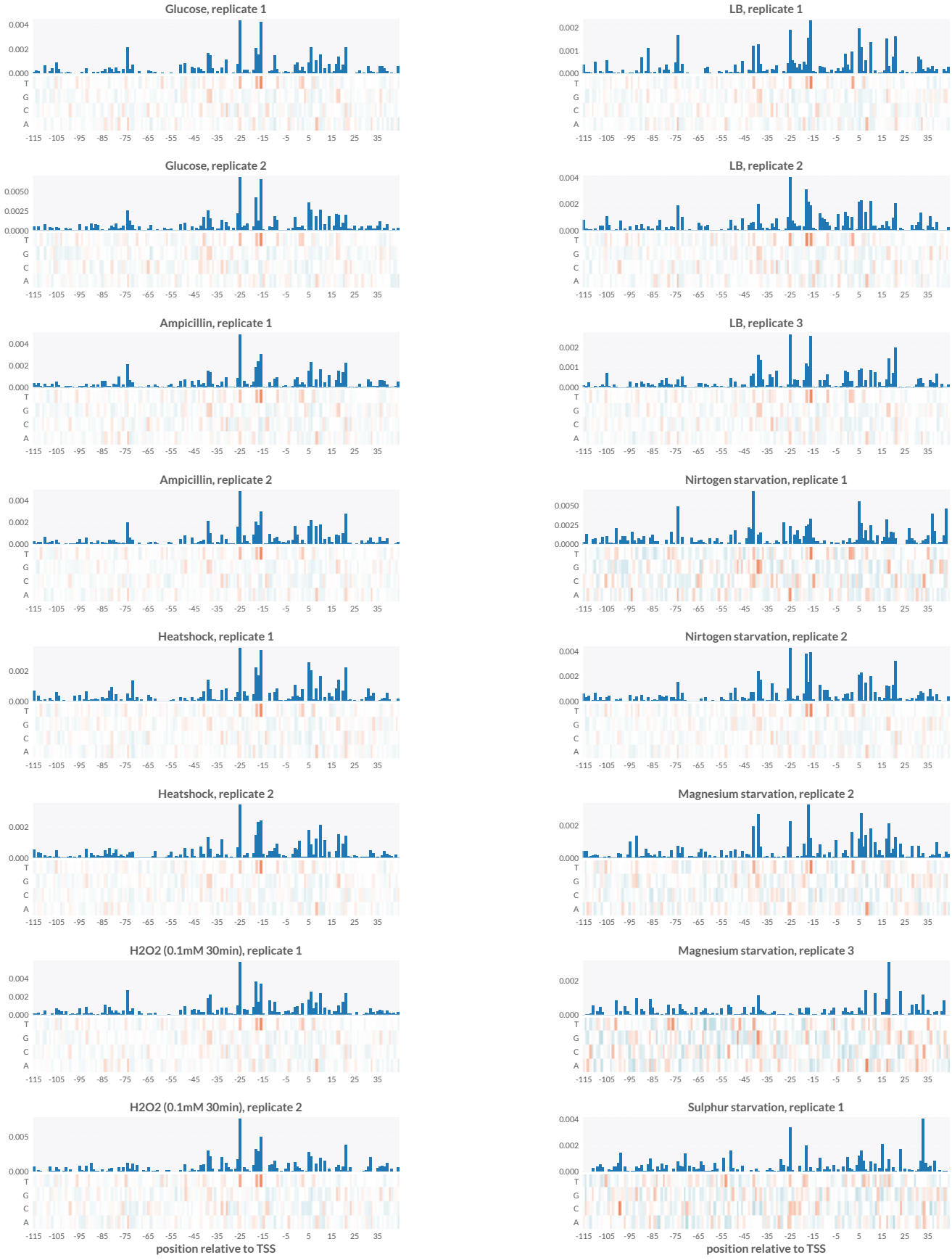
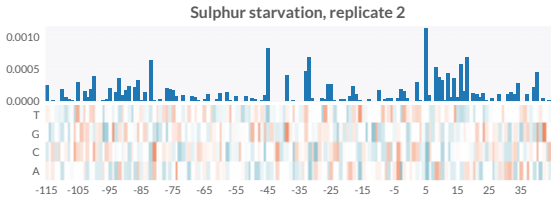
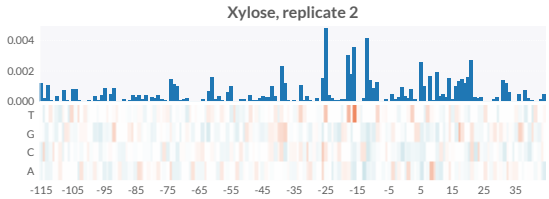
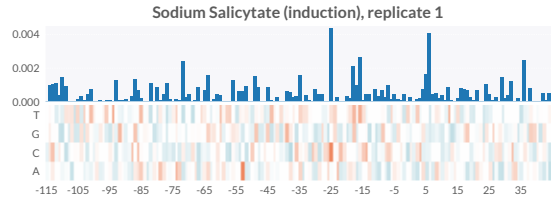
yahM

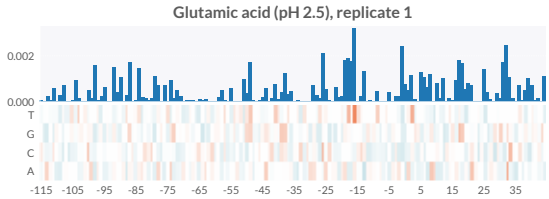

Glucose, replicate 1
Glucose, replicate 2
Ampicillin, replicate 1
Ampicillin, replicate 2
Heatshock, replicate 1
Heatshock, replicate 2
H2O2 (0.1mM 30min), replicate 1
H2O2 (0.1mM 30min), replicate 2
LB, replicate 1
LB, replicate 2
LB, replicate 3
Nirtogen starvation, replicate 1
Nirtogen starvation, replicate 2
Magnesium starvation, replicate 2
Magnesium starvation, replicate 3
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

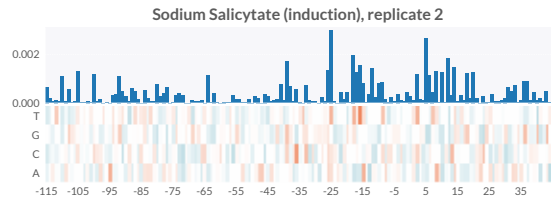
yahM

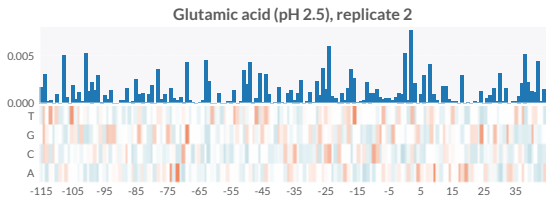

Sulphur starvation, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

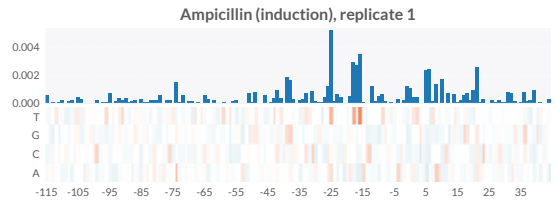

Xylose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

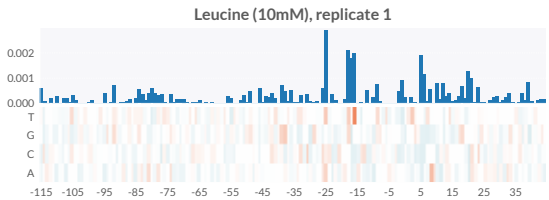

Sodium Salicytate (induction), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

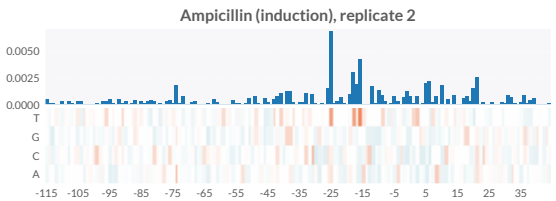

Glutamic acid (pH 2.5), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

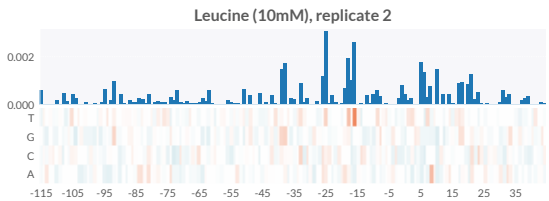

Sodium Salicytate (induction), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

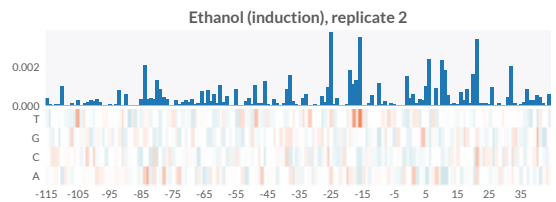

Glutamic acid (pH 2.5), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

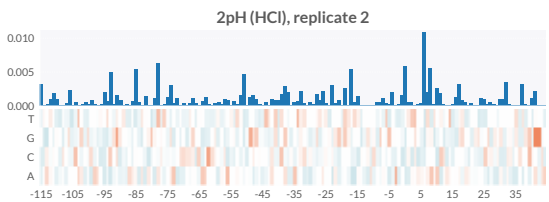

Ampicillin (induction), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

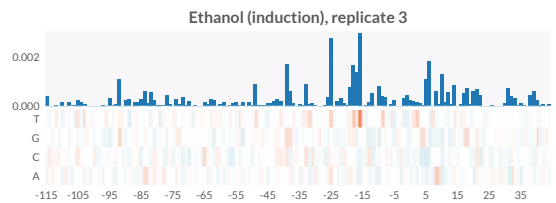

Leucine (10mM), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

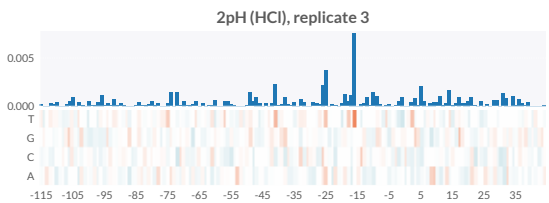

Ampicillin (induction), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

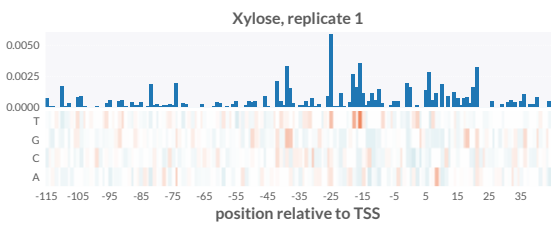

Leucine (10mM), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

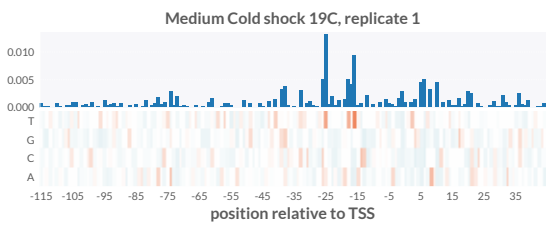

Ethanol (induction), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Ethanol (induction), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

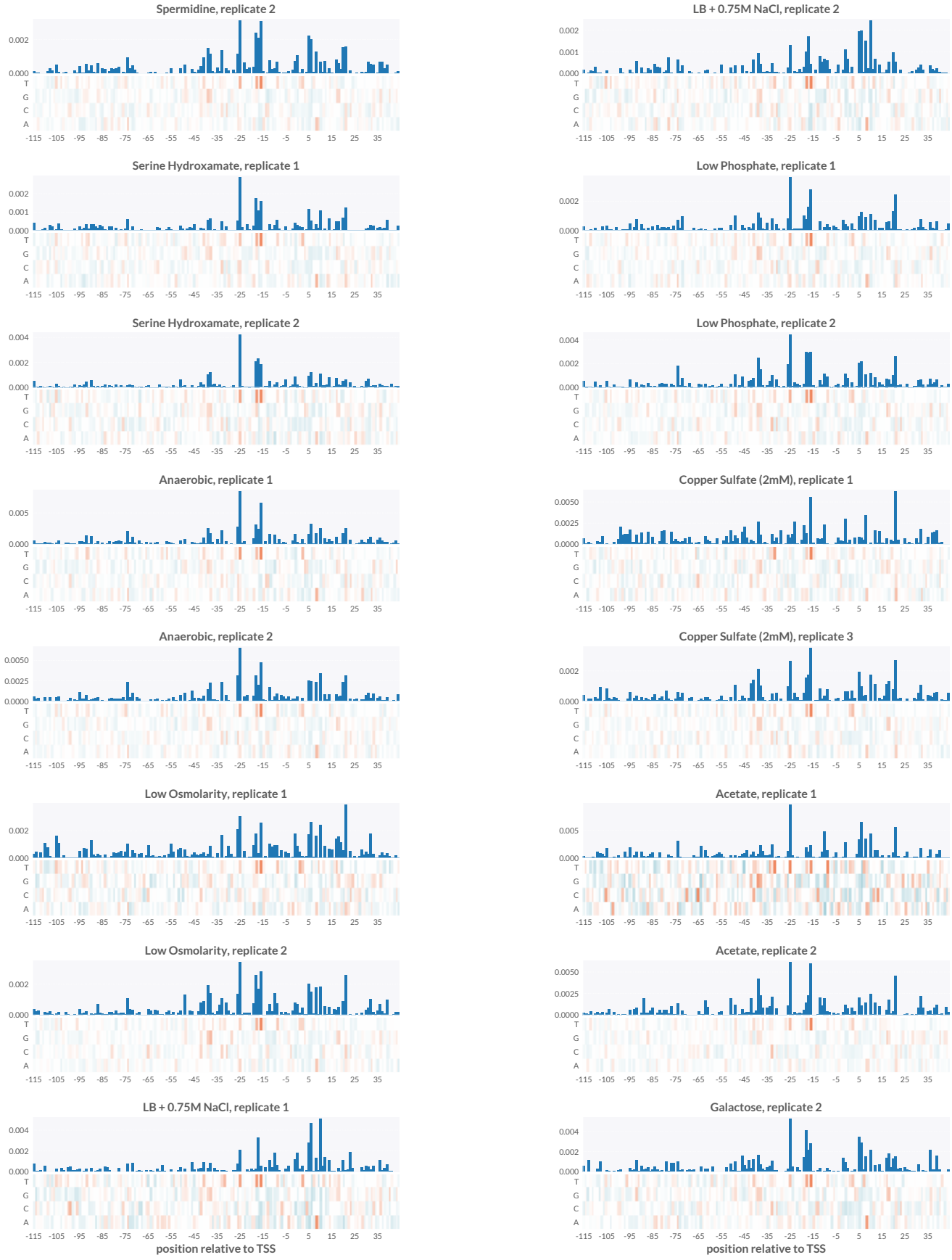

Xylose, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Medium Cold shock 19C, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

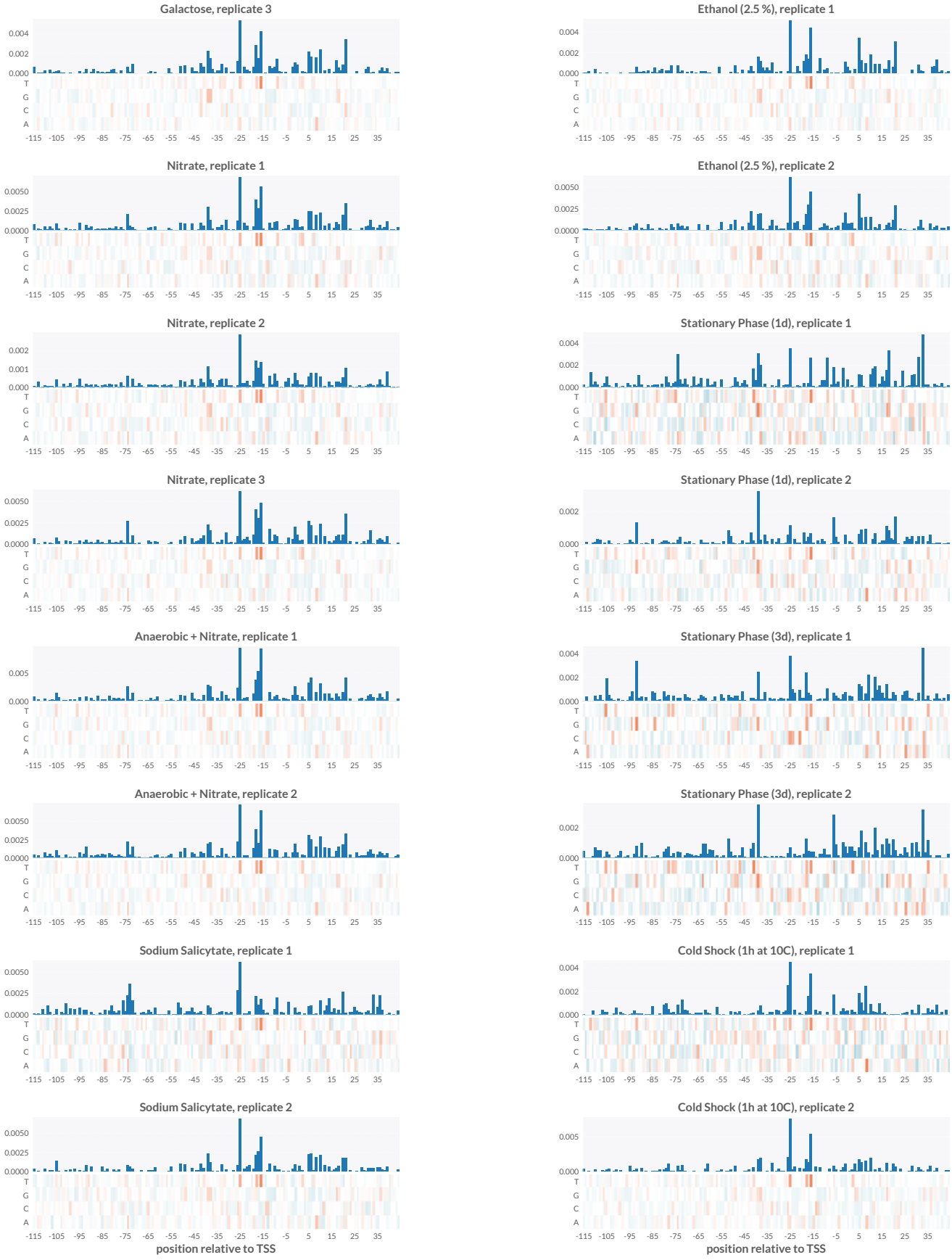
yahM


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

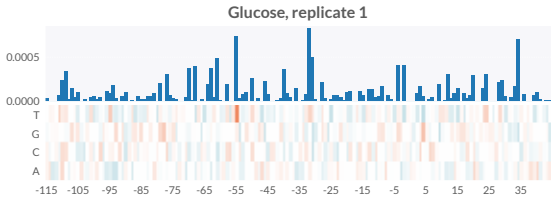
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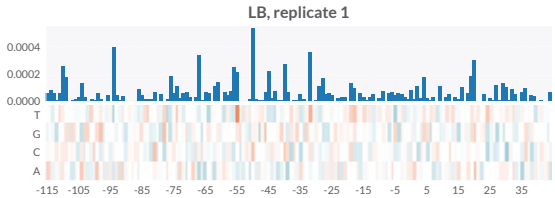

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

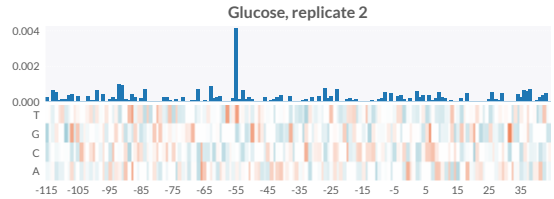
yahM

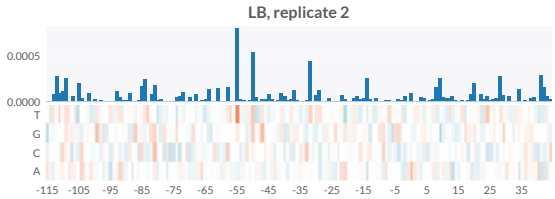

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

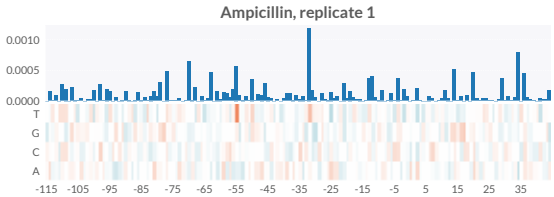
yjjJ

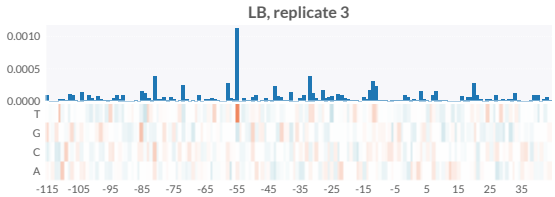

Glucose, replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

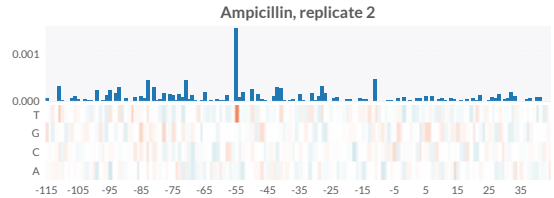

LB, replicate 1
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

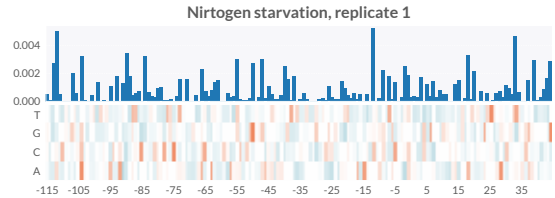

Glucose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

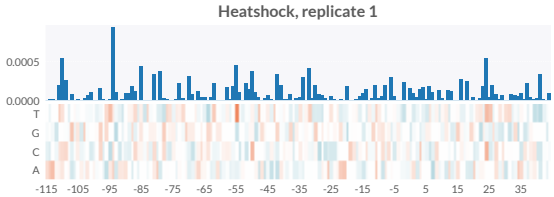

LB, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

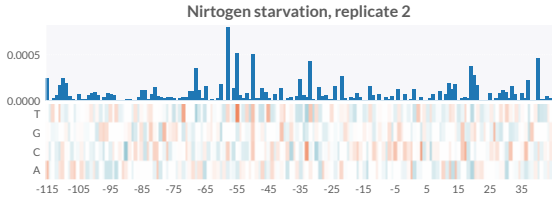

Ampicillin, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

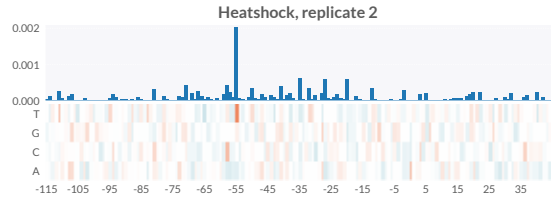

LB, replicate 3
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

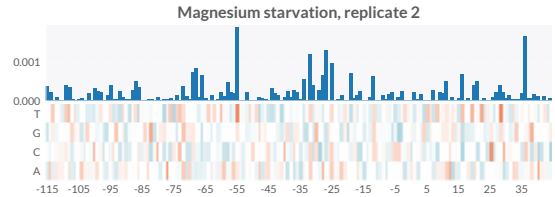

Ampicillin, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

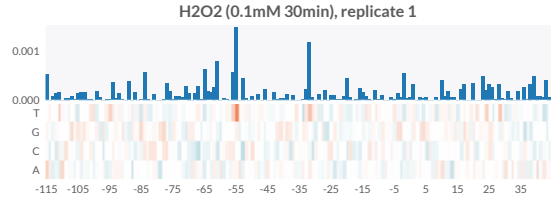

Nirtogen starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

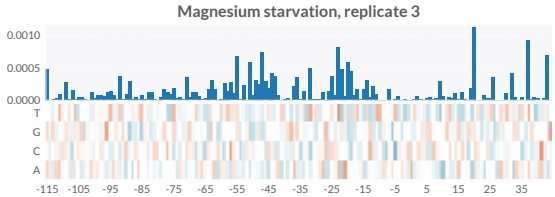

Heatshock, replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

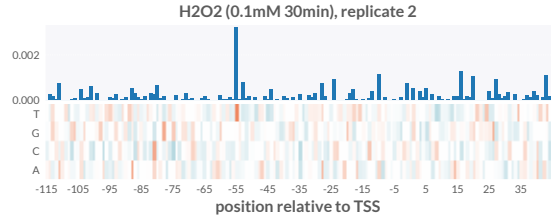

Nirtogen starvation, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

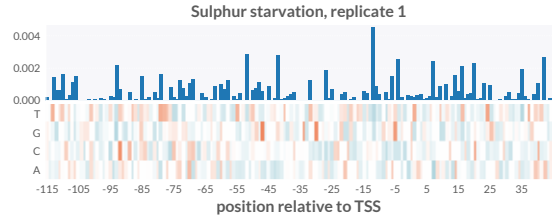

Heatshock, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

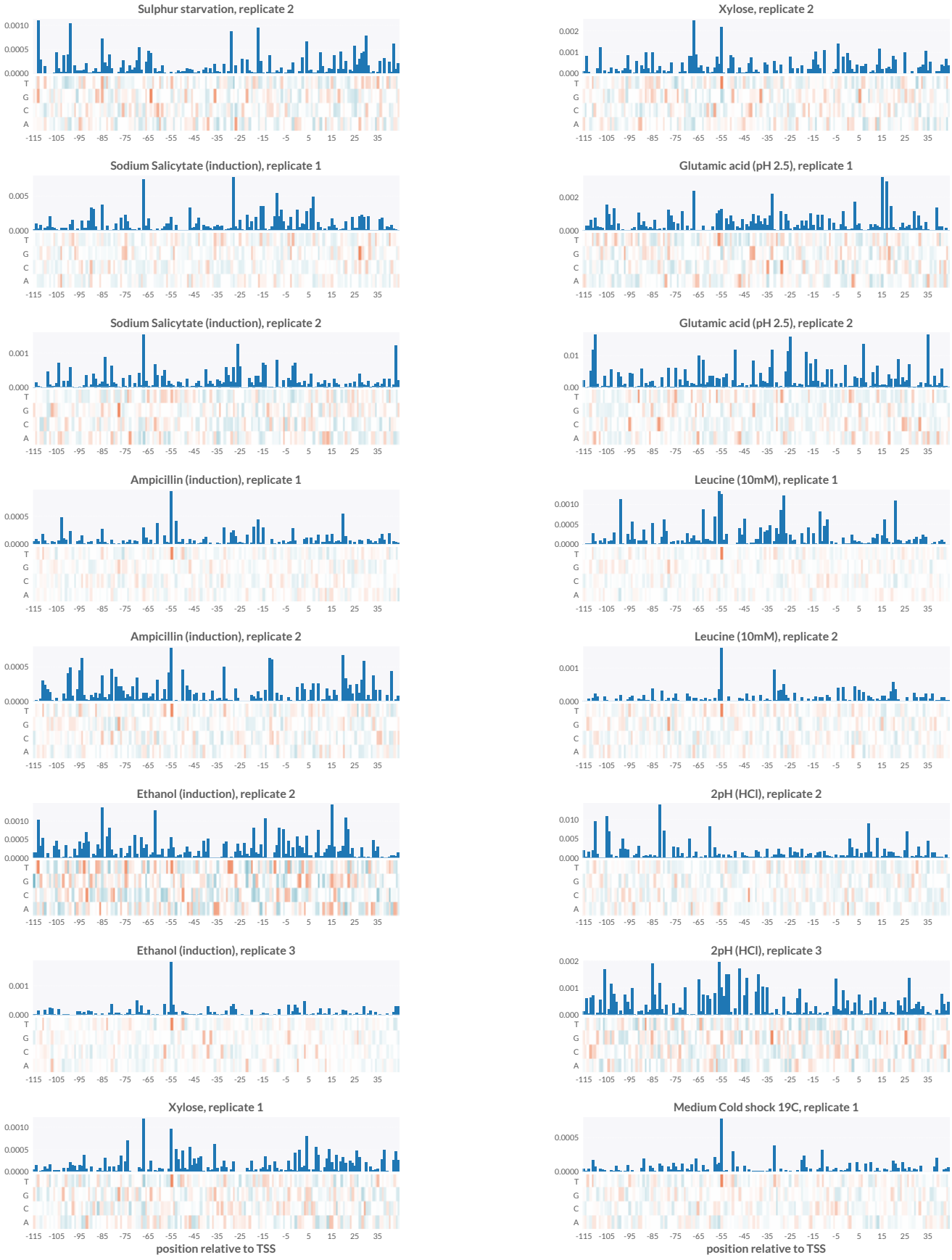

H2O2 (0.1mM 30min), replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 3
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

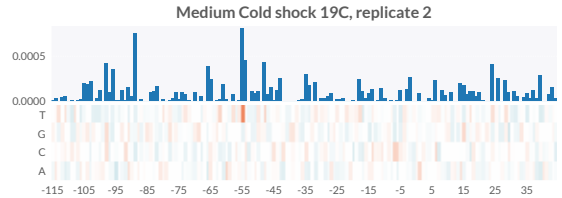

H2O2 (0.1mM 30min), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

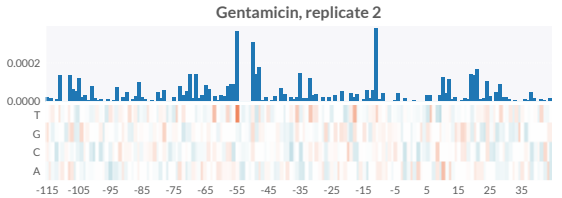

Sulphur starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

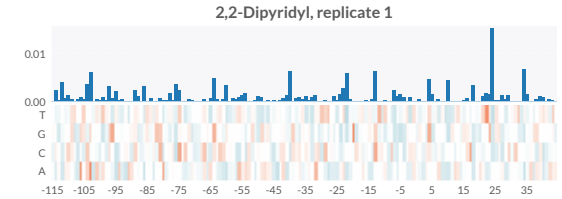
yjjJ

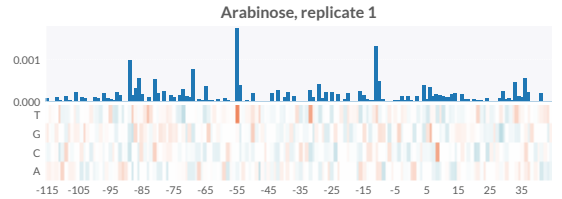

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

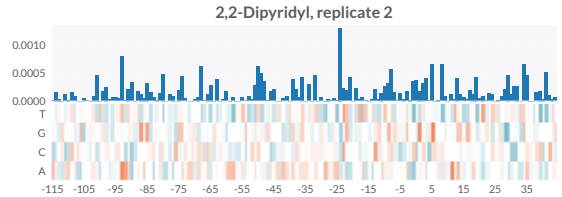
yjjJ

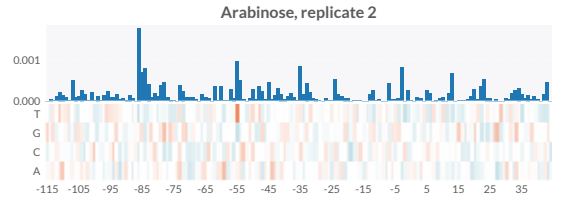

Medium Cold shock 19C, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

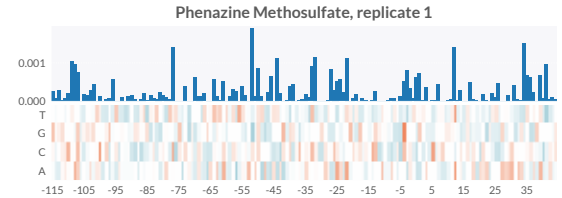

Gentamicin, replicate 2
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

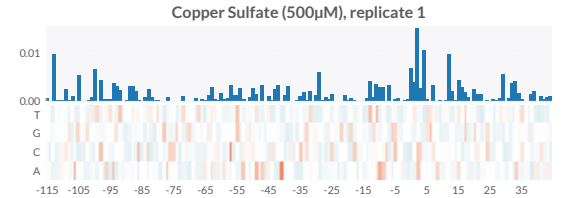

2,2-Dipyridyl, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

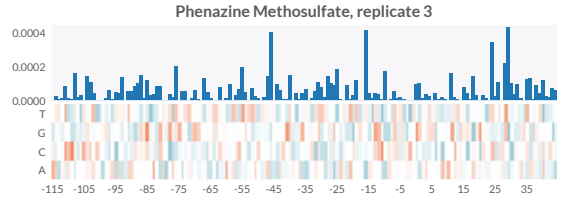

Arabinose, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

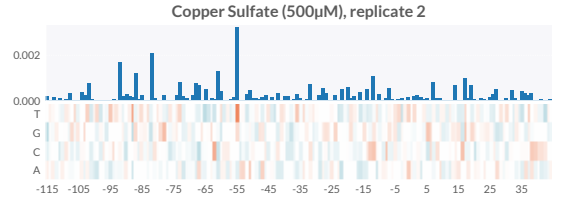

2,2-Dipyridyl, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

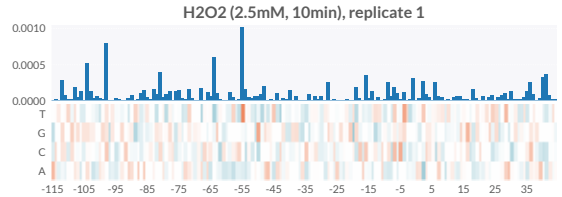

Arabinose, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

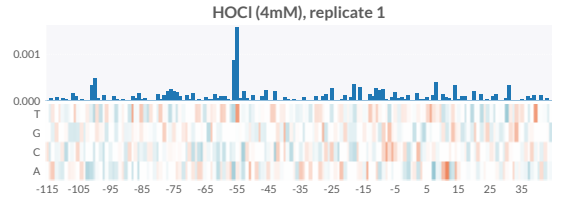

Phenazine Methosulfate, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

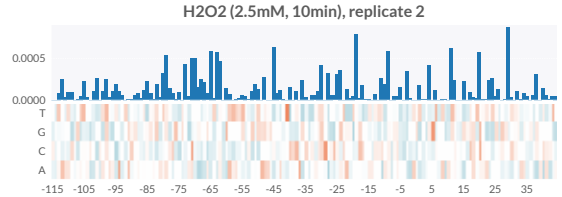

Copper Sulfate (500µM), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

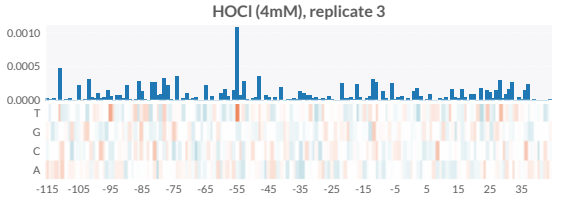

Phenazine Methosulfate, replicate 3
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

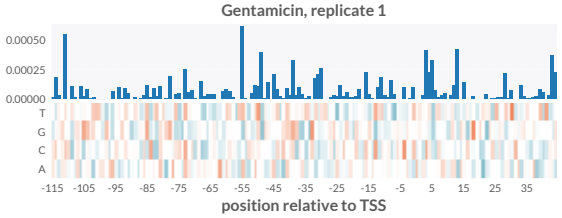

Copper Sulfate (500µM), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

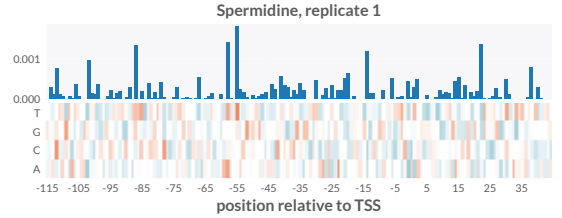

H2O2 (2.5mM, 10min), replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

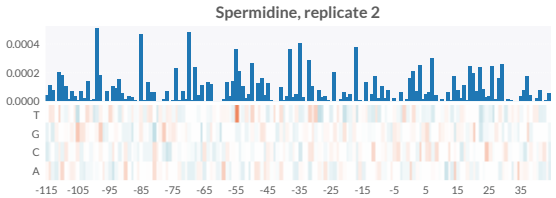

H2O2 (2.5mM, 10min), replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

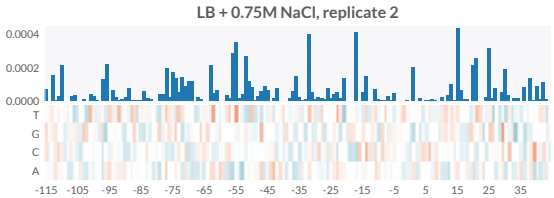

HOCl (4mM), replicate 3
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

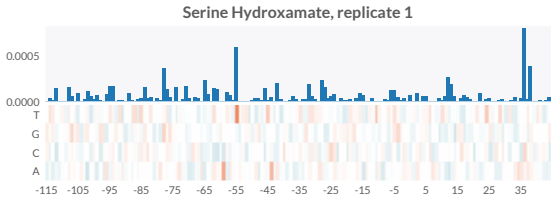

Gentamicin, replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

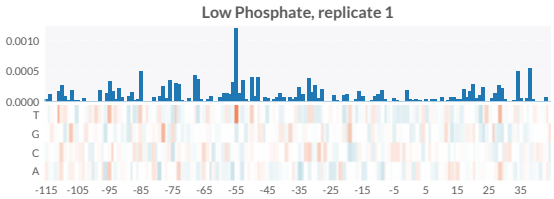

Spermidine, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

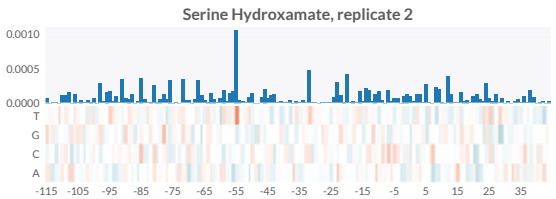
yjjJ

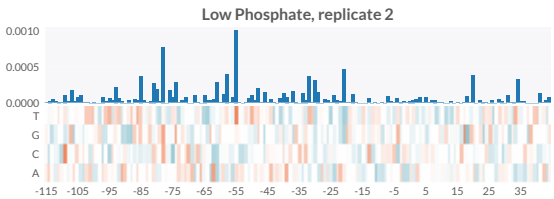

Spermidine, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

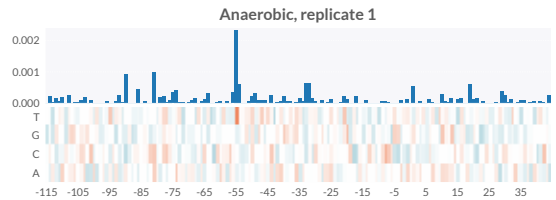

LB + 0.75M NaCl, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

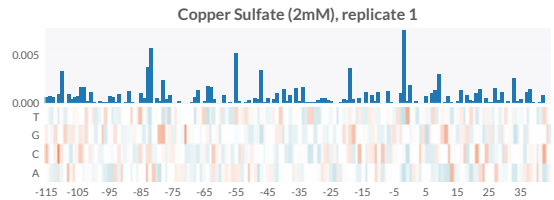

Serine Hydroxamate, replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

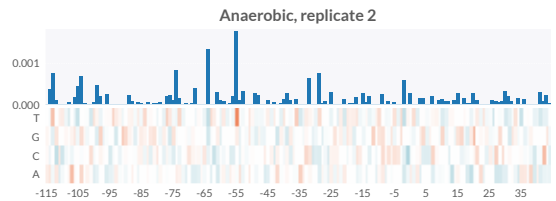

Low Phosphate, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

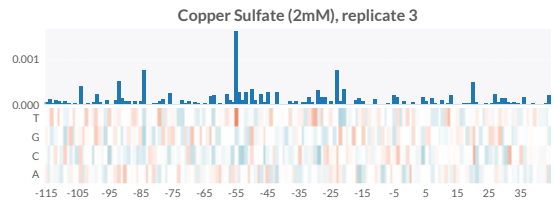

Serine Hydroxamate, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

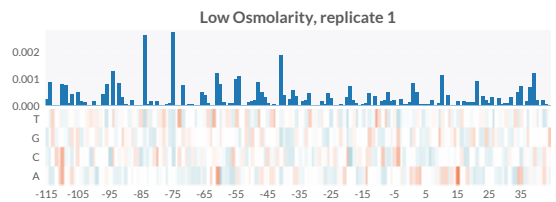

Low Phosphate, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

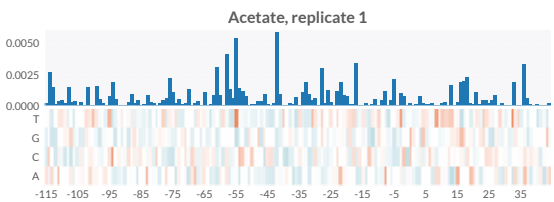

Anaerobic, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

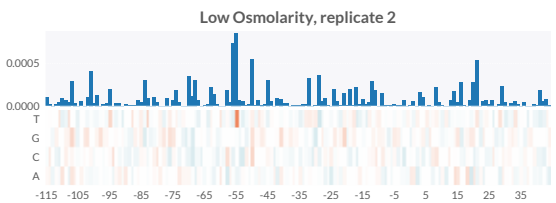

Copper Sulfate (2mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

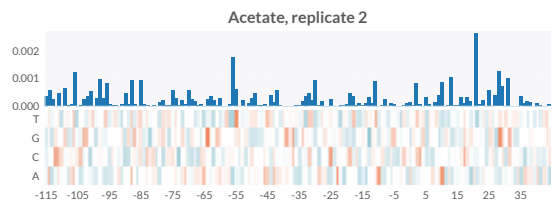

Anaerobic, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

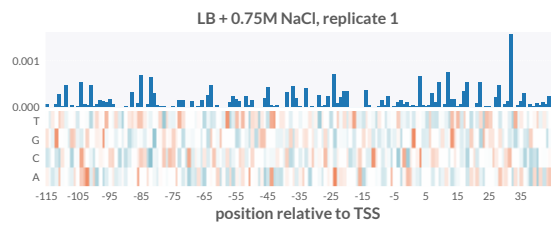

Copper Sulfate (2mM), replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

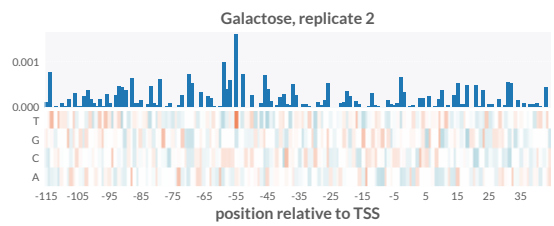

Low Osmolarity, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

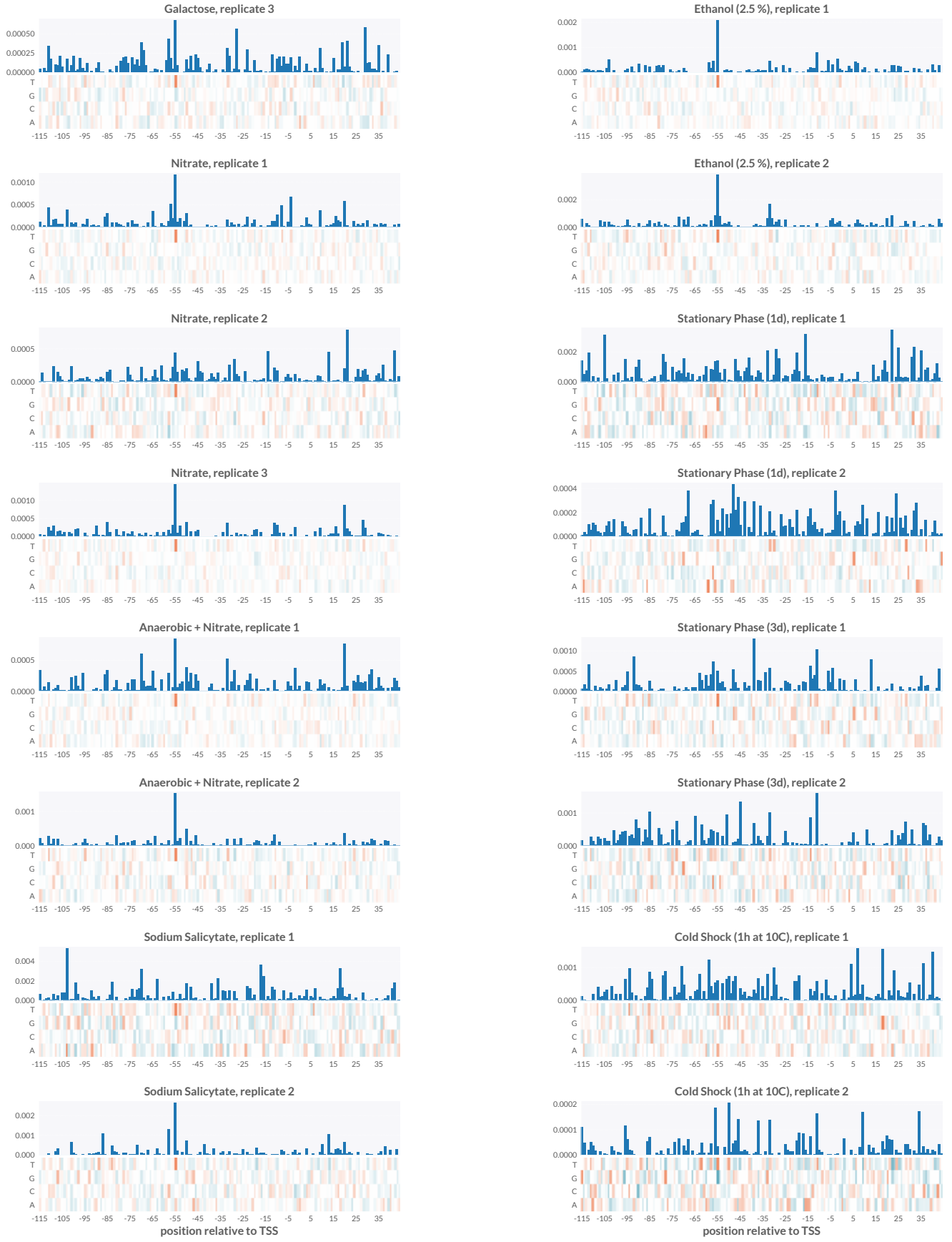

Low Osmolarity, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

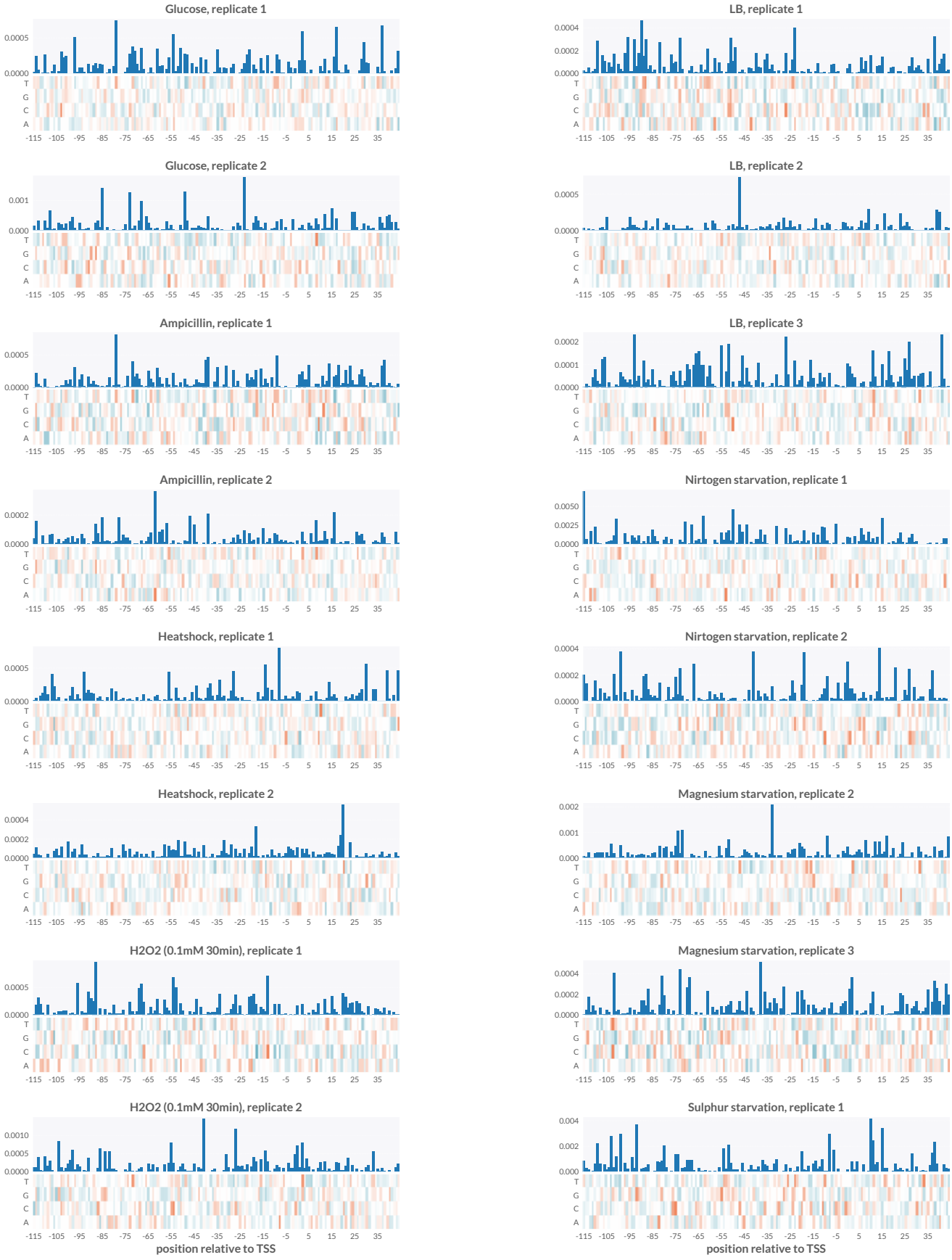

LB + 0.75M NaCl, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Galactose, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

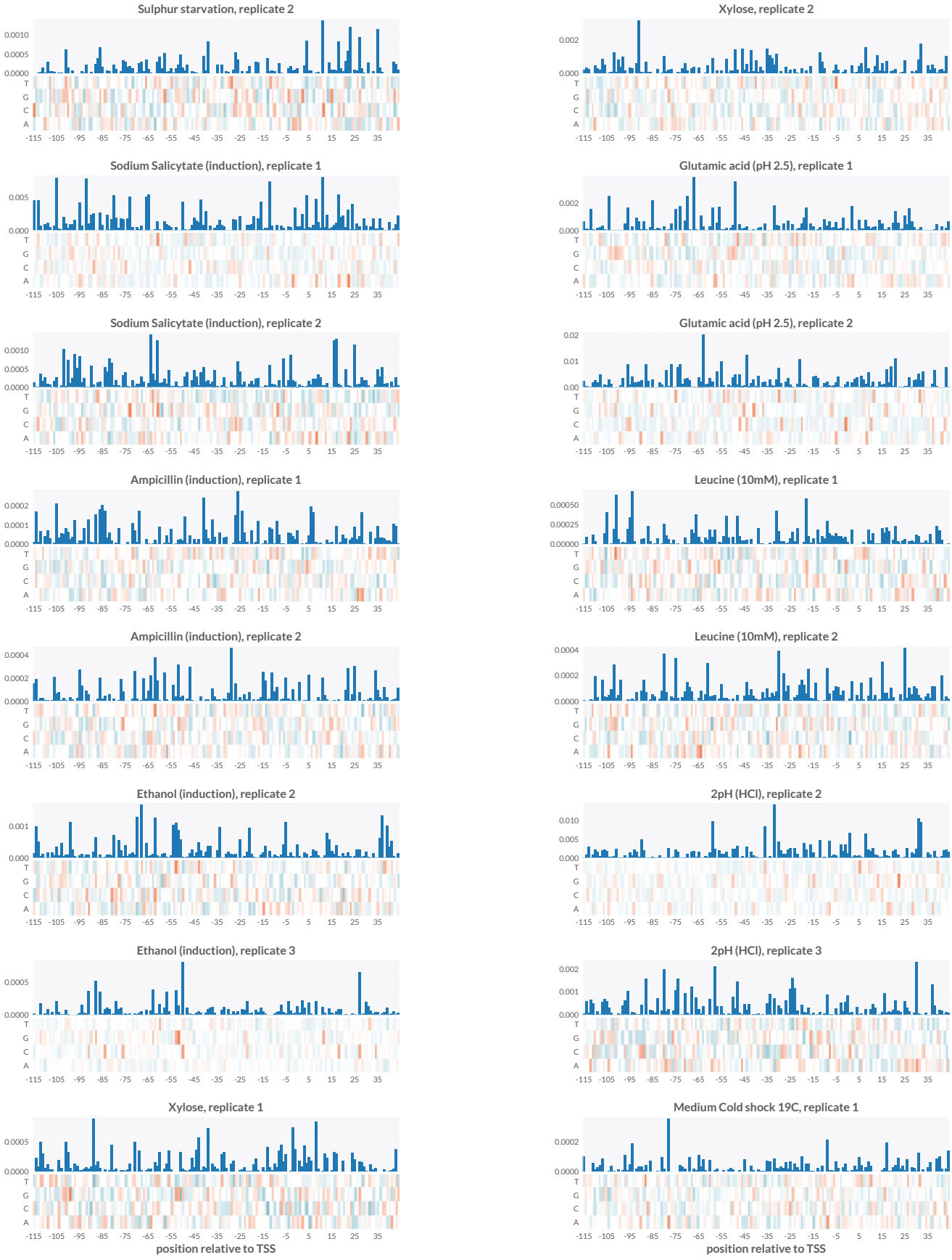
yjjJ


Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

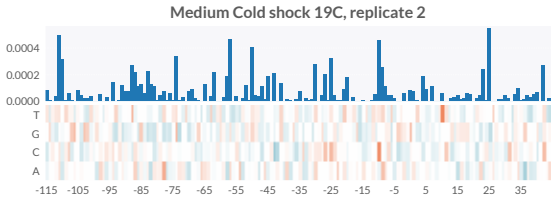
ymfJ

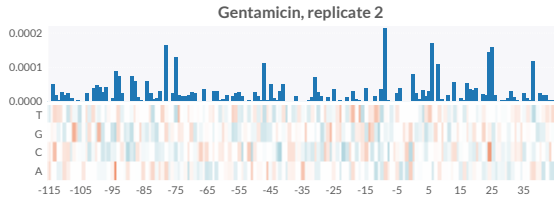

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

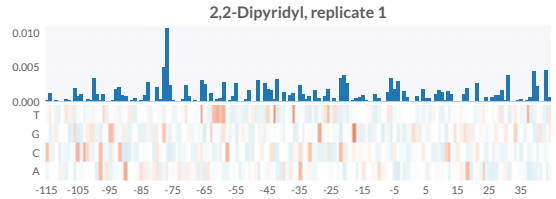
ymfJ

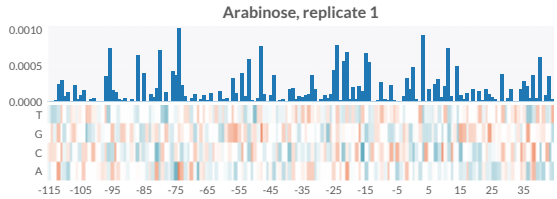

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

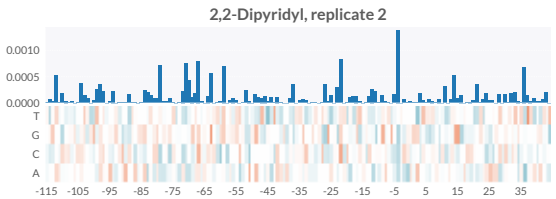
ymfJ

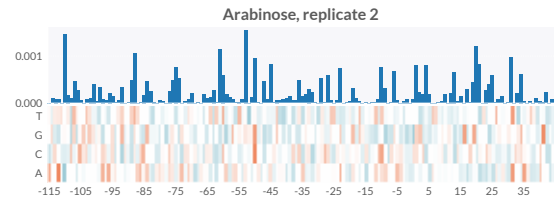

Medium Cold shock 19C, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

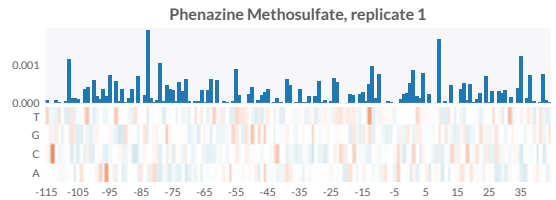

Gentamicin, replicate 2
0.0002
0.0001
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

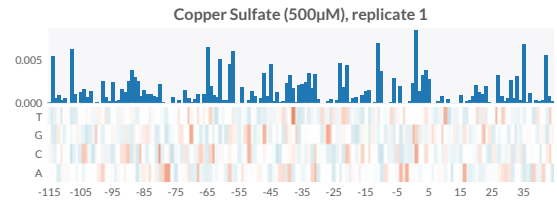

2,2-Dipyridyl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

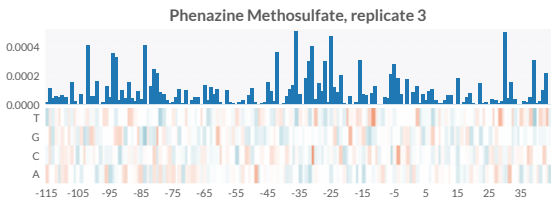

Arabinose, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

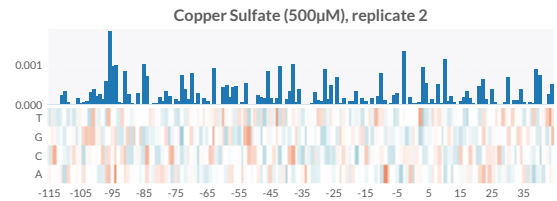

2,2-Dipyridyl, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

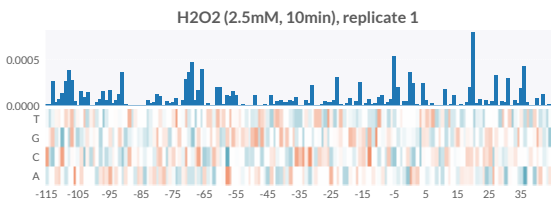

Arabinose, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

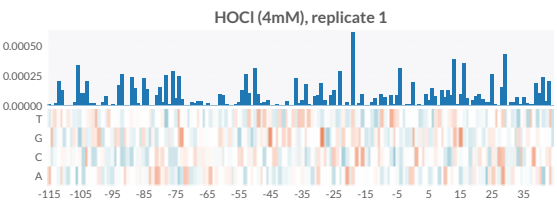

Phenazine Methosulfate, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

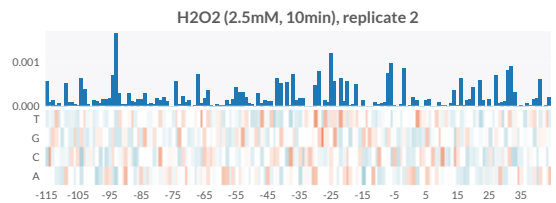

Copper Sulfate (500µM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

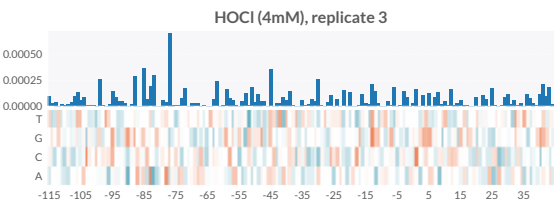

Phenazine Methosulfate, replicate 3
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

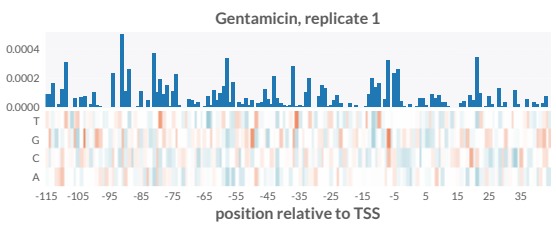

Copper Sulfate (500µM), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

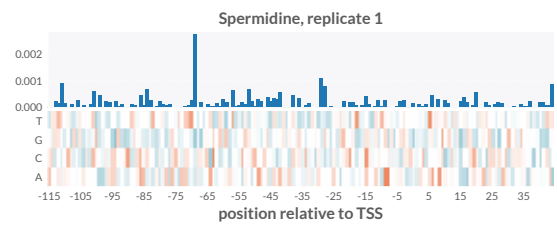

H2O2 (2.5mM, 10min), replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

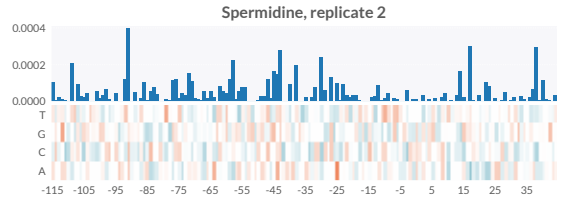

H2O2 (2.5mM, 10min), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

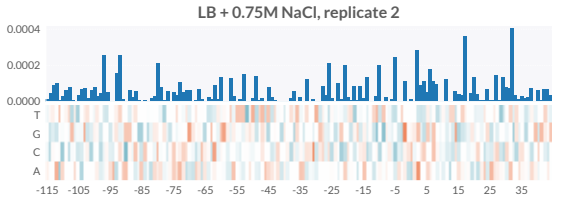

HOCl (4mM), replicate 3
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

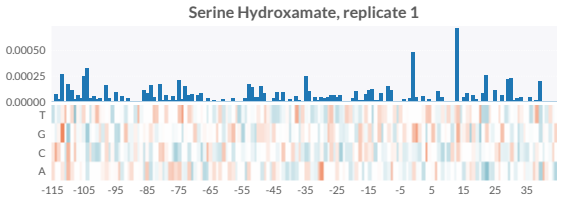

Gentamicin, replicate 1
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

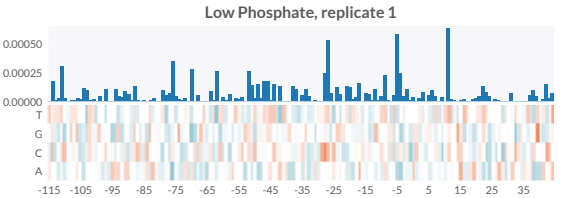

Spermidine, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

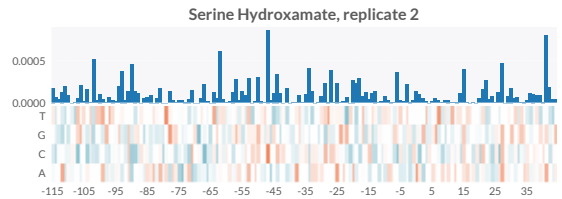
ymfJ

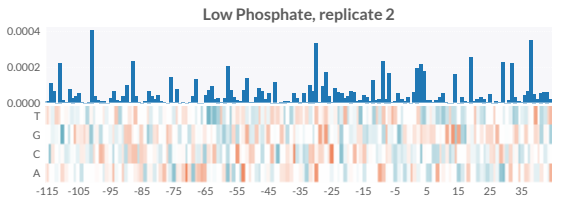

Spermidine, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

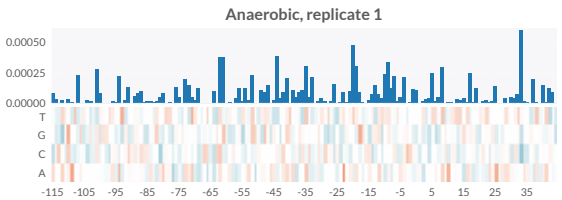

LB + 0.75M NaCl, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

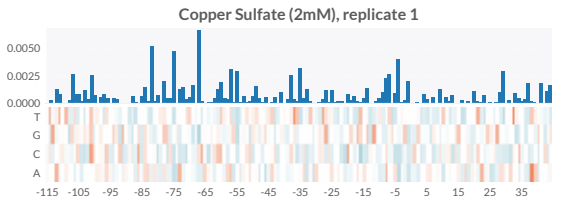

Serine Hydroxamate, replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

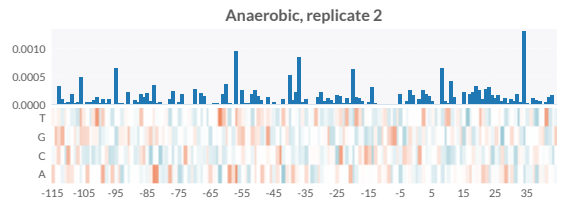

Low Phosphate, replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

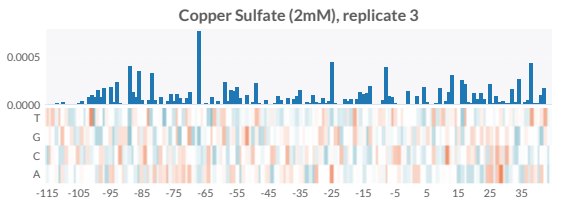

Serine Hydroxamate, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

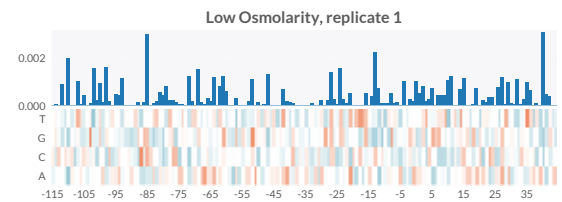

Low Phosphate, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

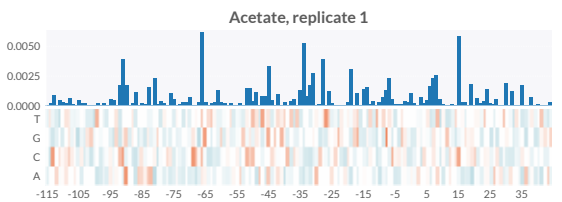

Anaerobic, replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

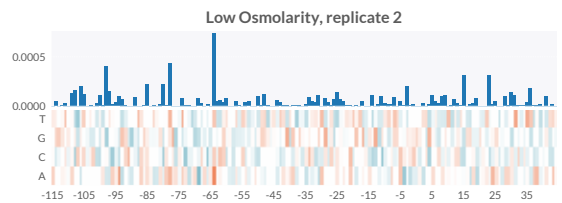

Copper Sulfate (2mM), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

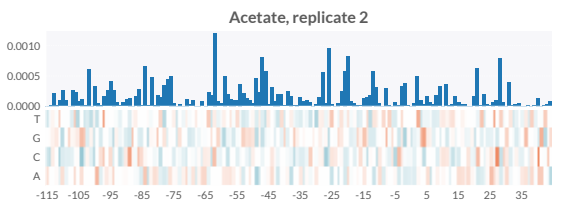

Anaerobic, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

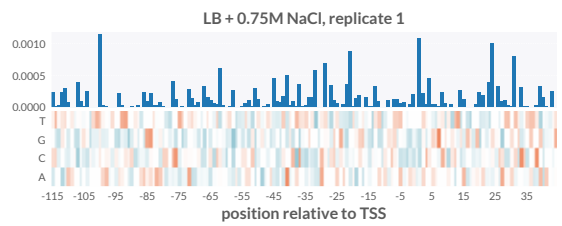

Copper Sulfate (2mM), replicate 3
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

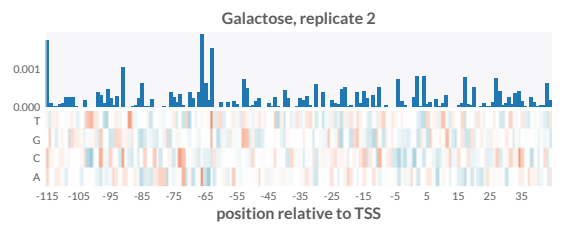

Low Osmolarity, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

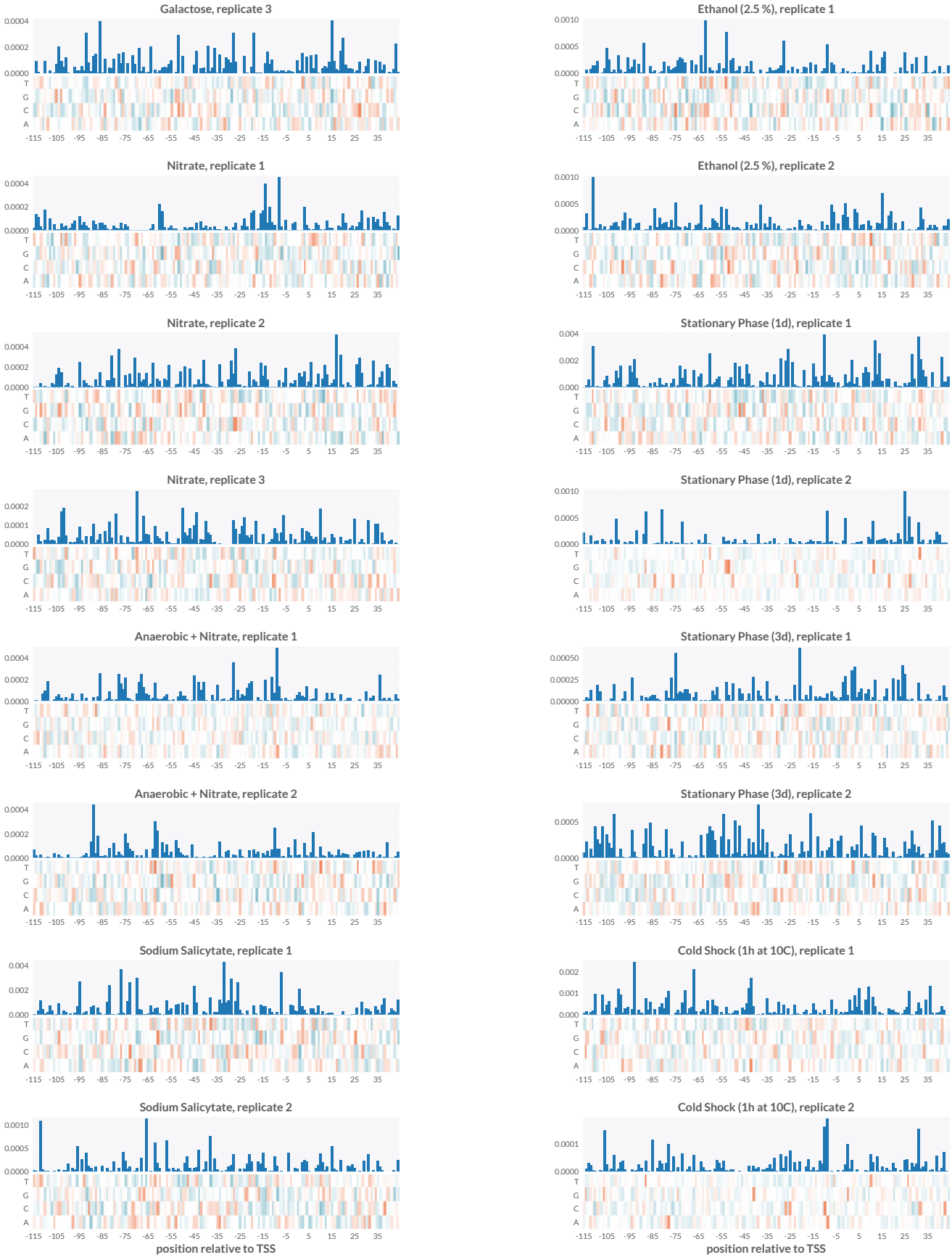

Low Osmolarity, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

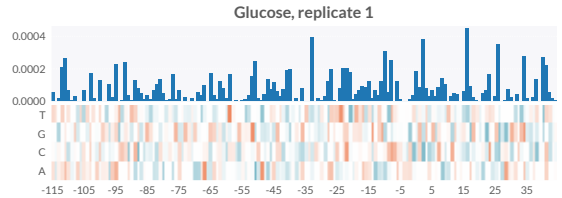

LB + 0.75M NaCl, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

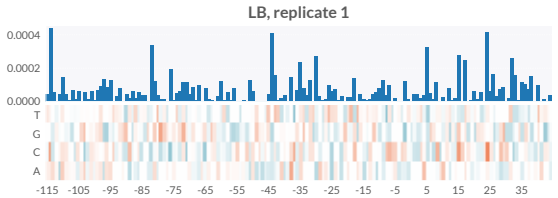

Galactose, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

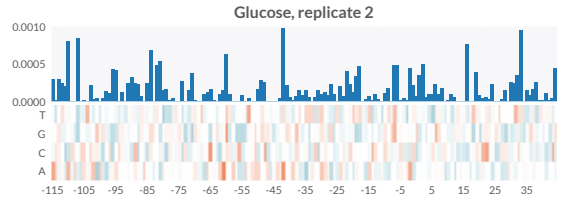
ymfJ

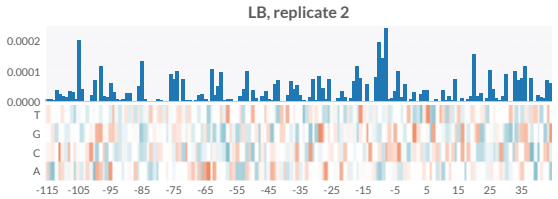

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

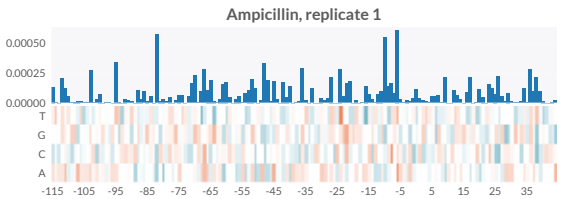
ymfJ_2

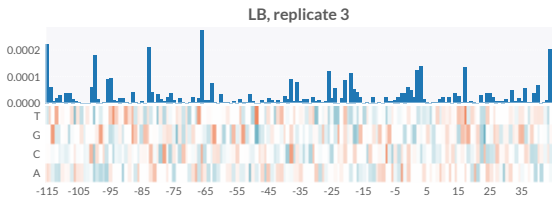

Glucose, replicate 1
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

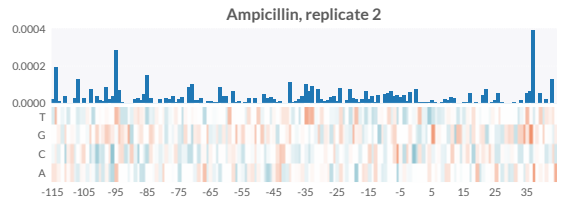

LB, replicate 1
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

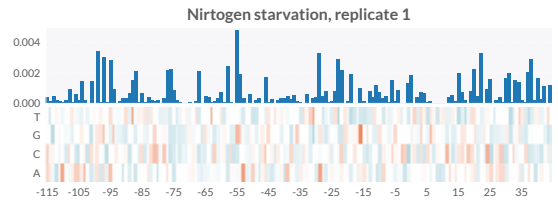

Glucose, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

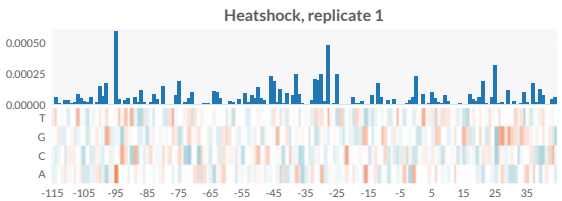

LB, replicate 2
0.0002
0.0001
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

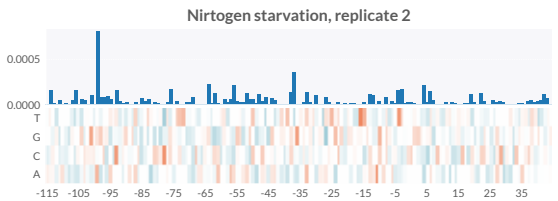

Ampicillin, replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

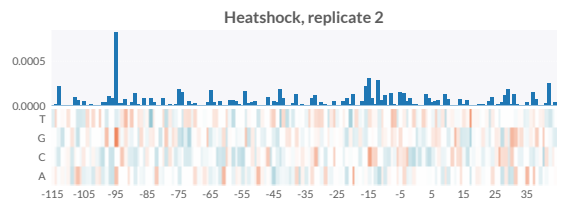

LB, replicate 3
0.0002
0.0001
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

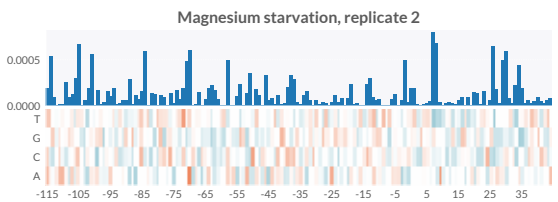

Ampicillin, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

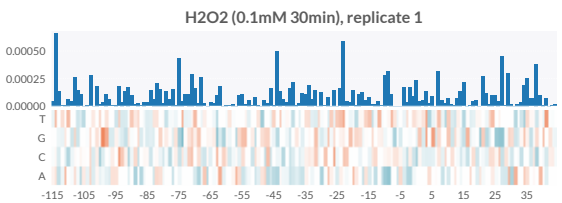

Nirtogen starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

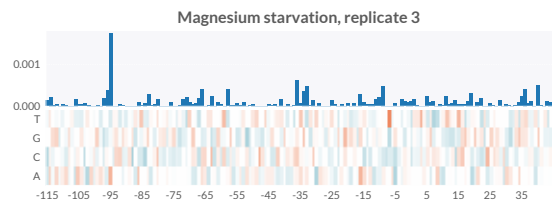

Heatshock, replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

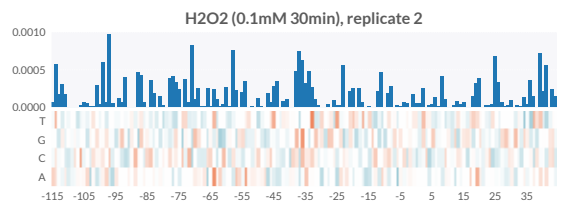

Nirtogen starvation, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

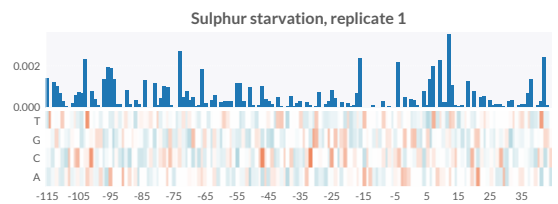

Heatshock, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

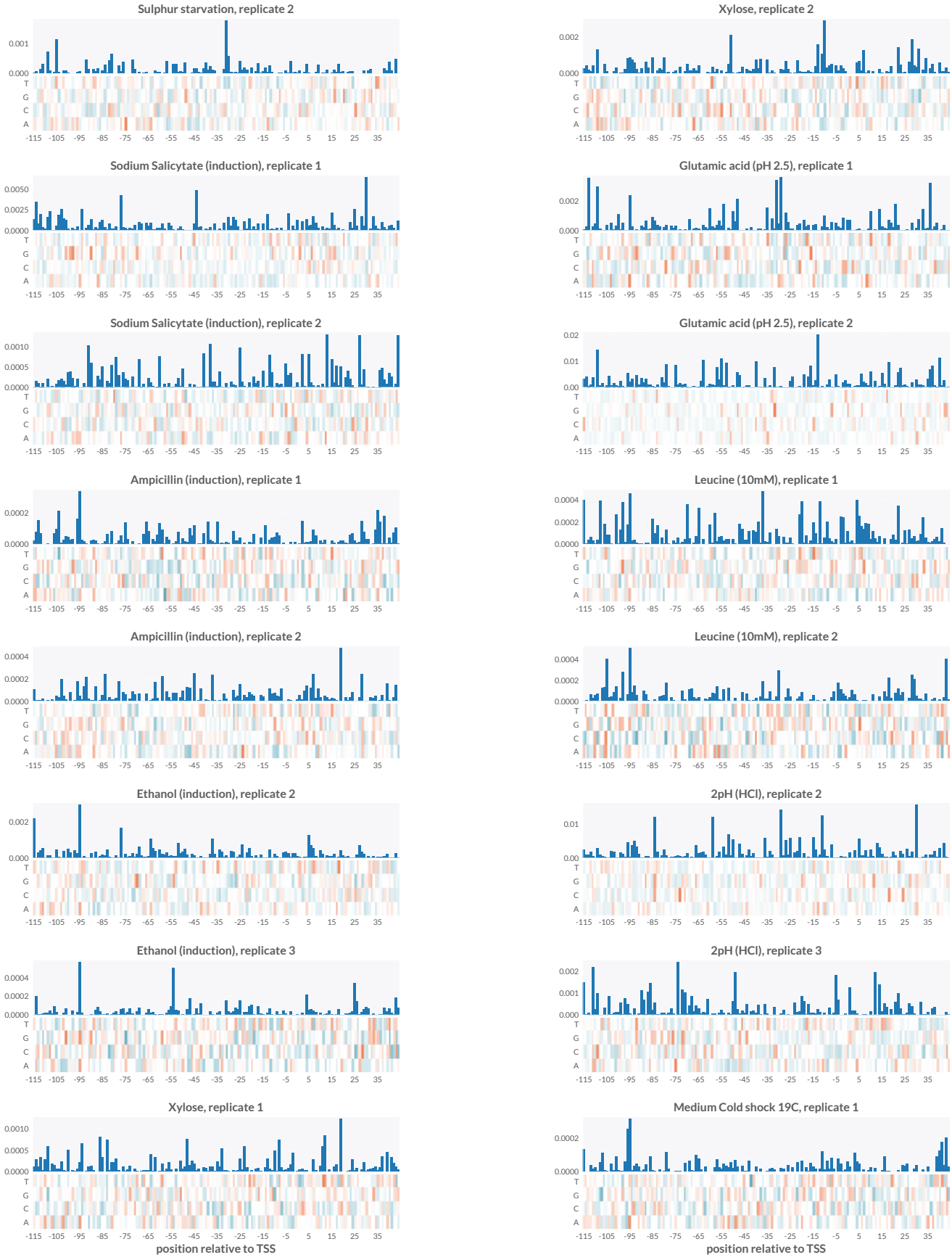

H2O2 (0.1mM 30min), replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

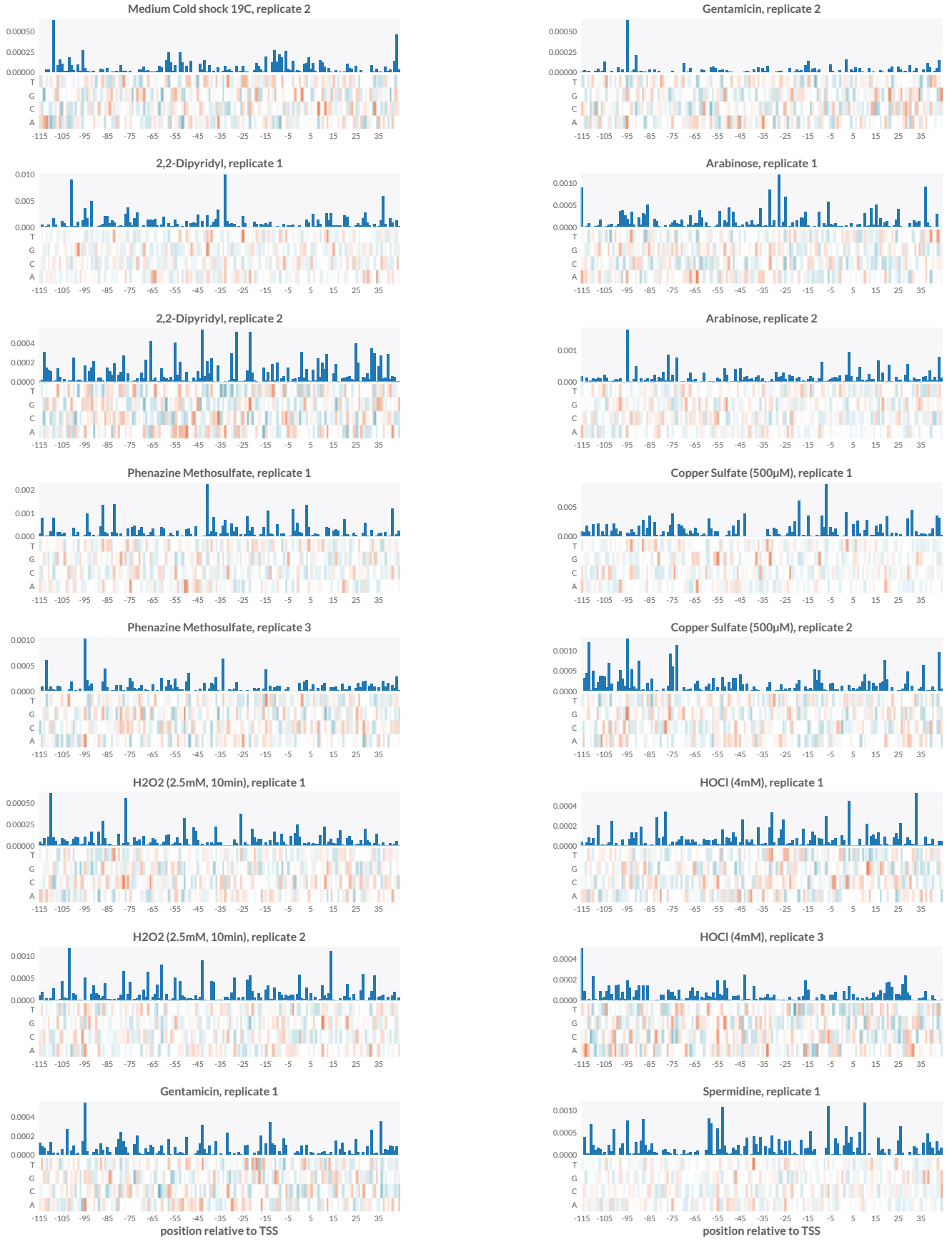

H2O2 (0.1mM 30min), replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Sulphur starvation, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

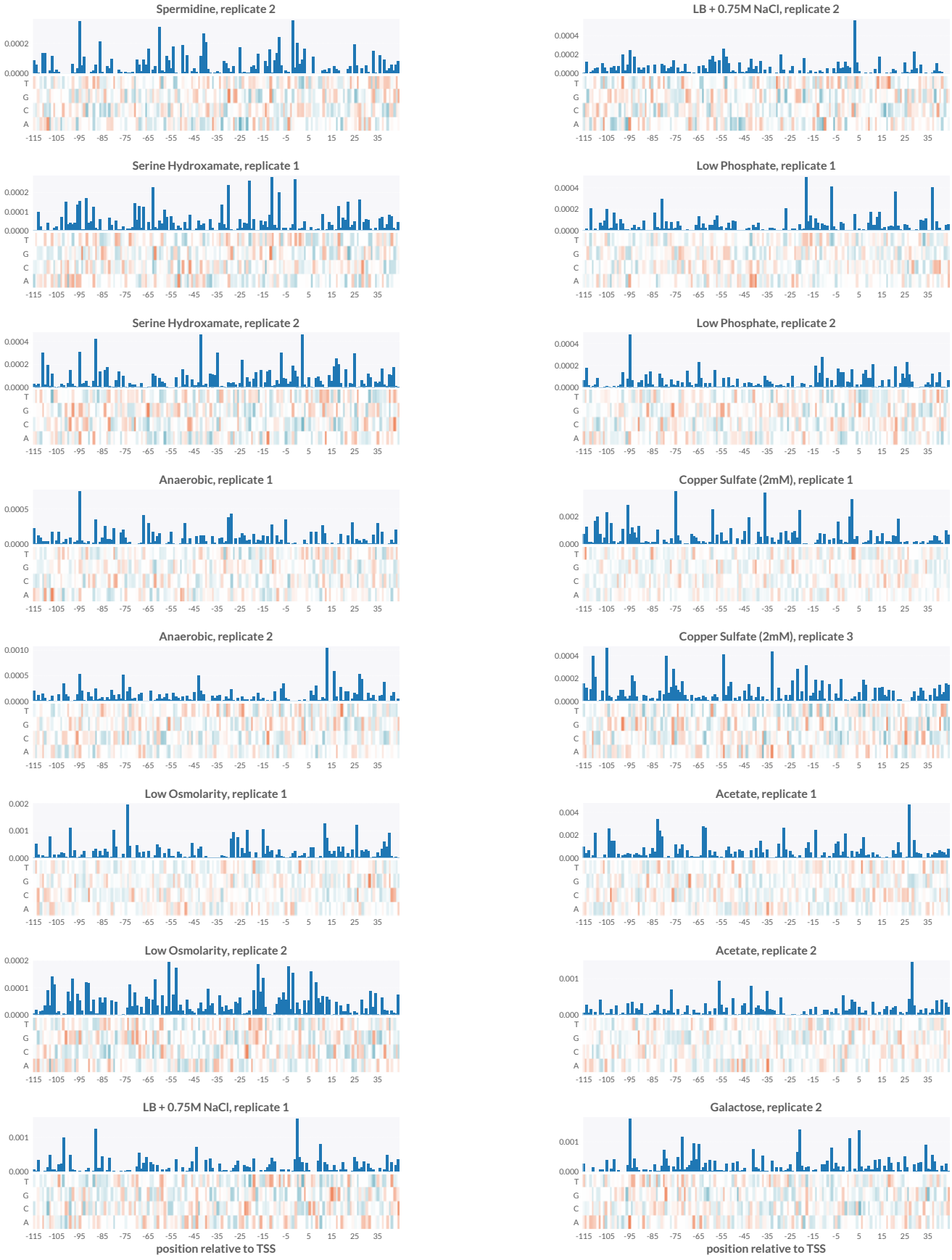
ymfJ_2


Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

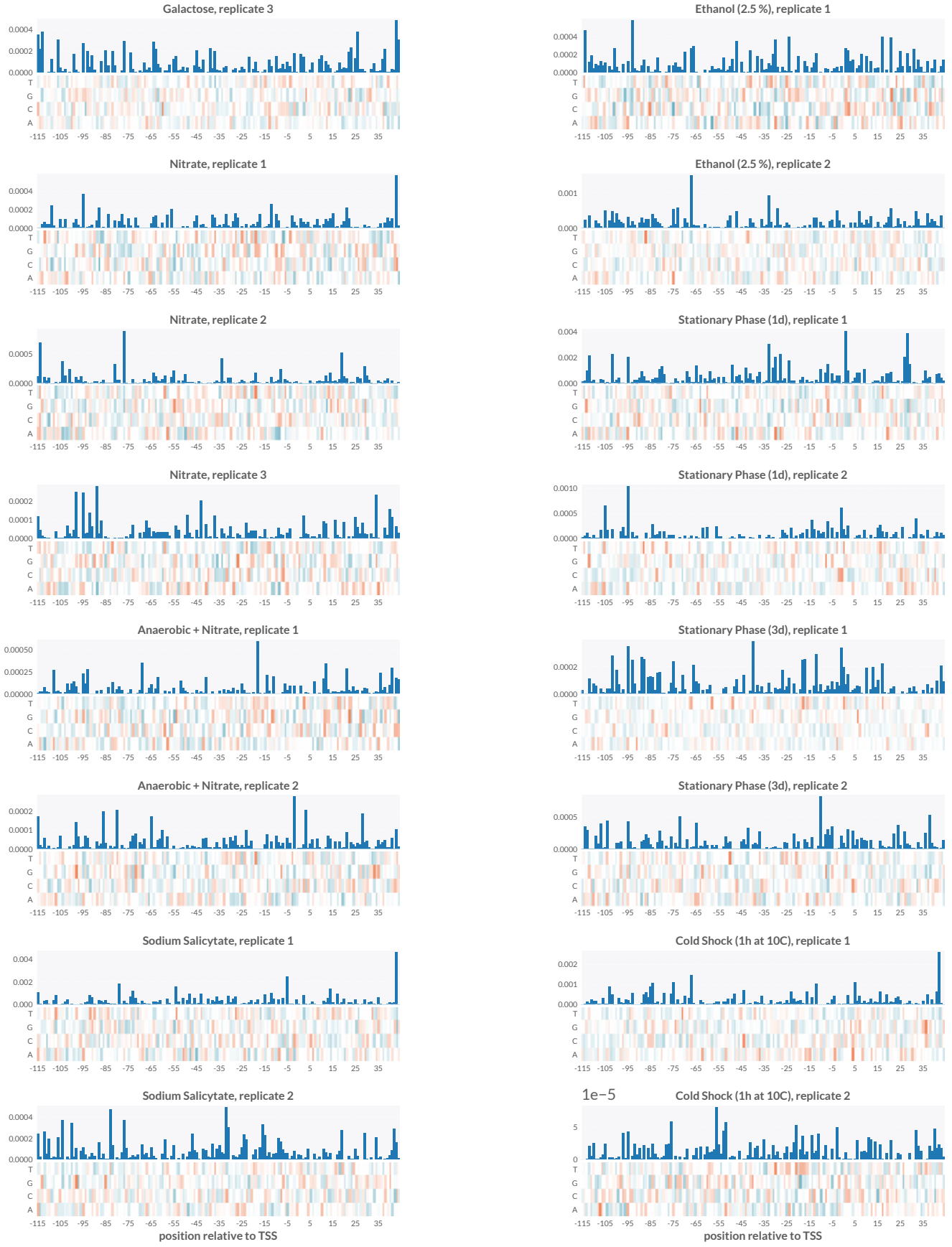
ymfJ_2


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

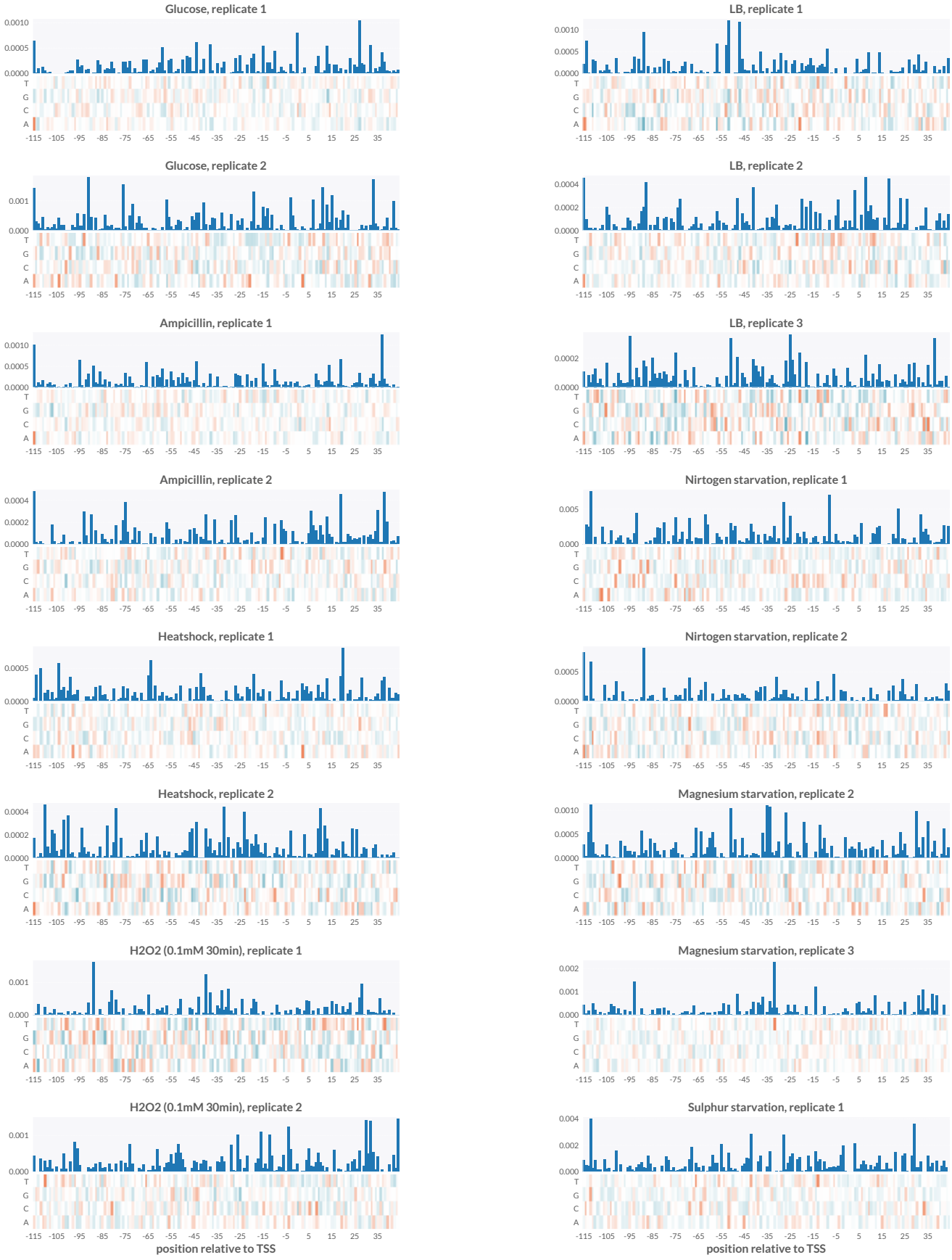
ymfJ_2


Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

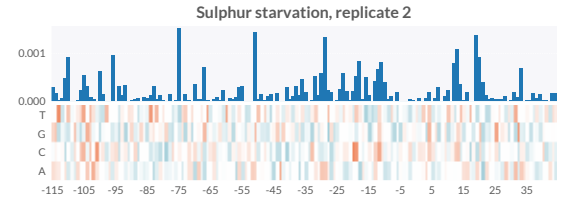
ymfJ_2

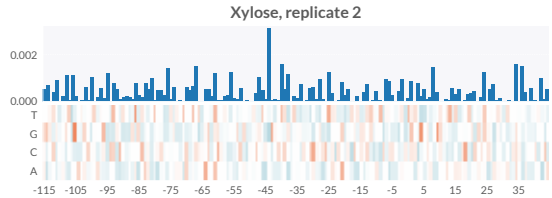

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
1e−5
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

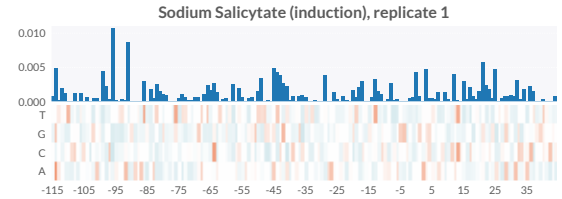
dicA

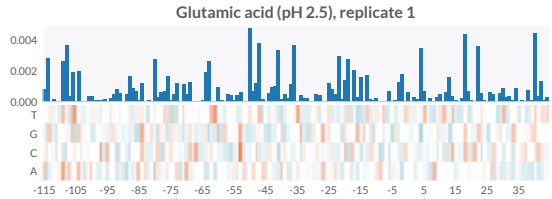

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

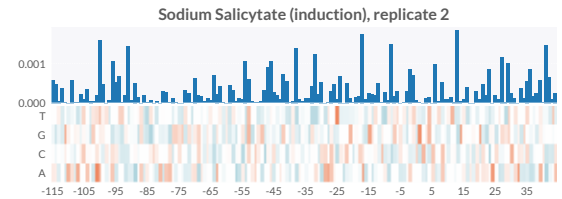
dicA

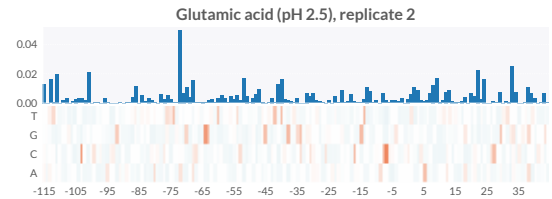

Sulphur starvation, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

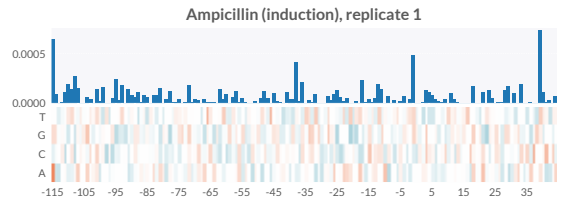

Xylose, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

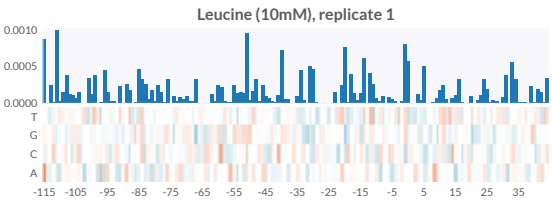

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

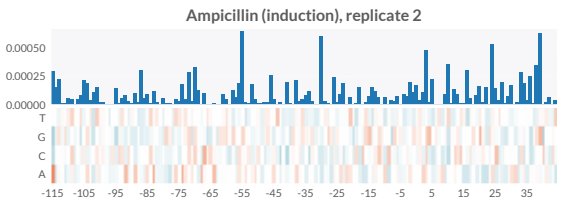

Glutamic acid (pH 2.5), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

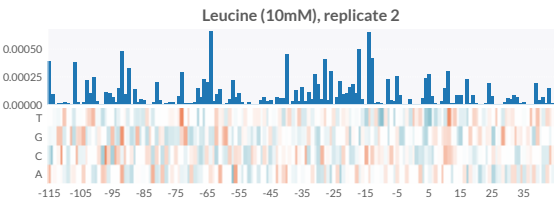

Sodium Salicytate (induction), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

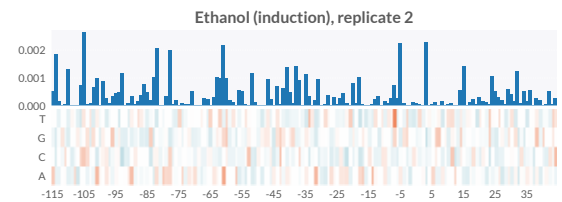

Glutamic acid (pH 2.5), replicate 2
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

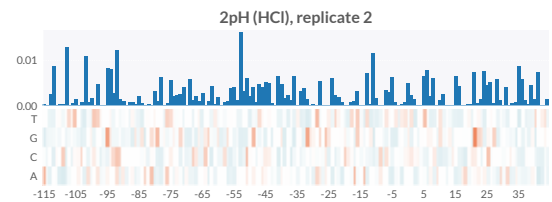

Ampicillin (induction), replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

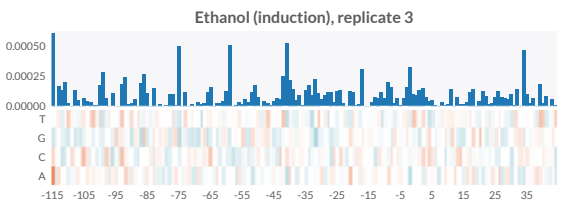

Leucine (10mM), replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

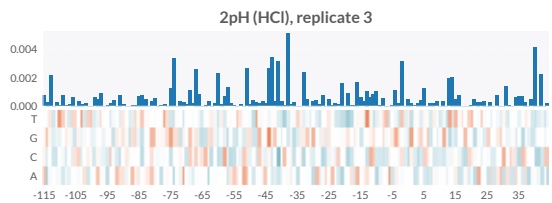

Ampicillin (induction), replicate 2
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

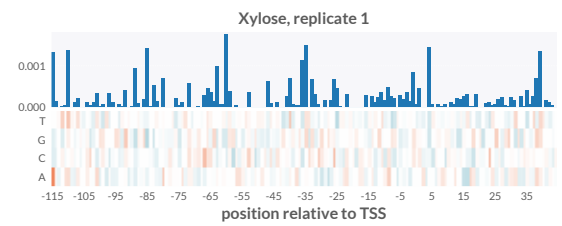

Leucine (10mM), replicate 2
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

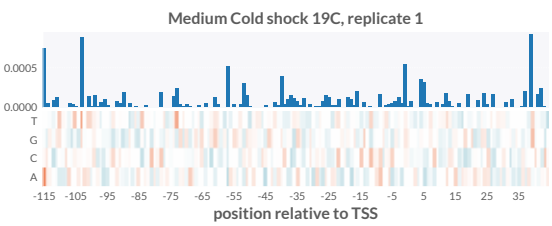

Ethanol (induction), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

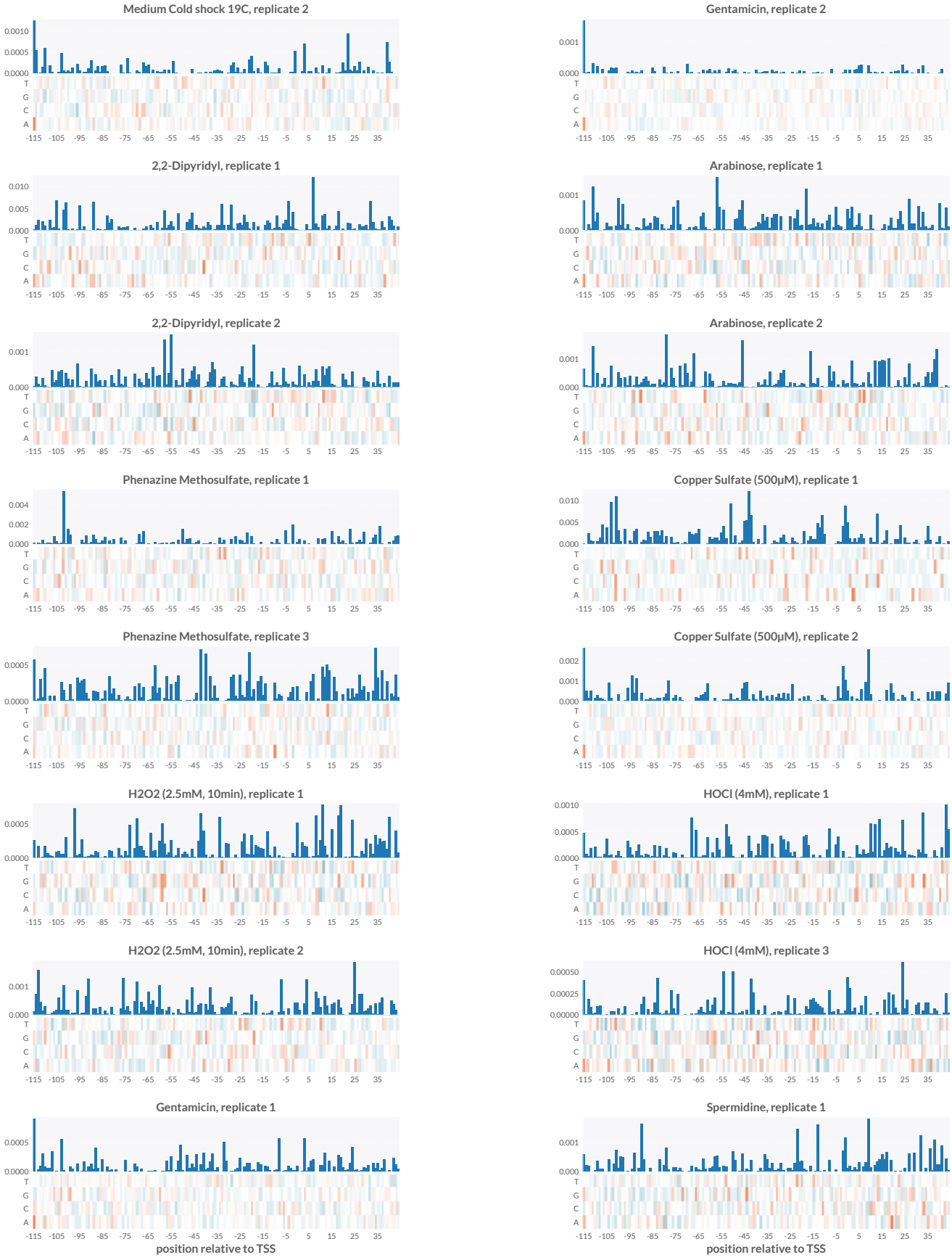

Ethanol (induction), replicate 3
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

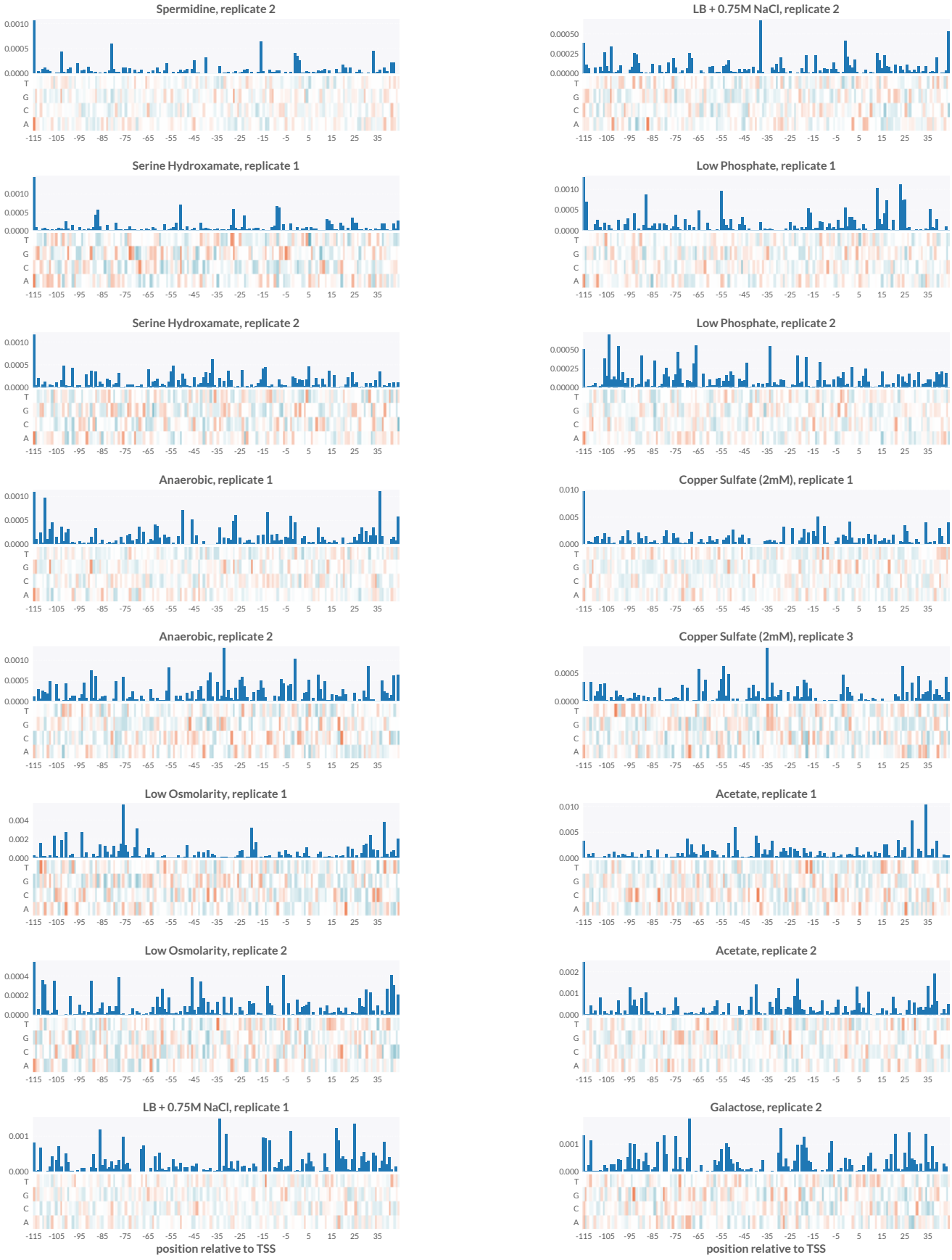

Xylose, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Medium Cold shock 19C, replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

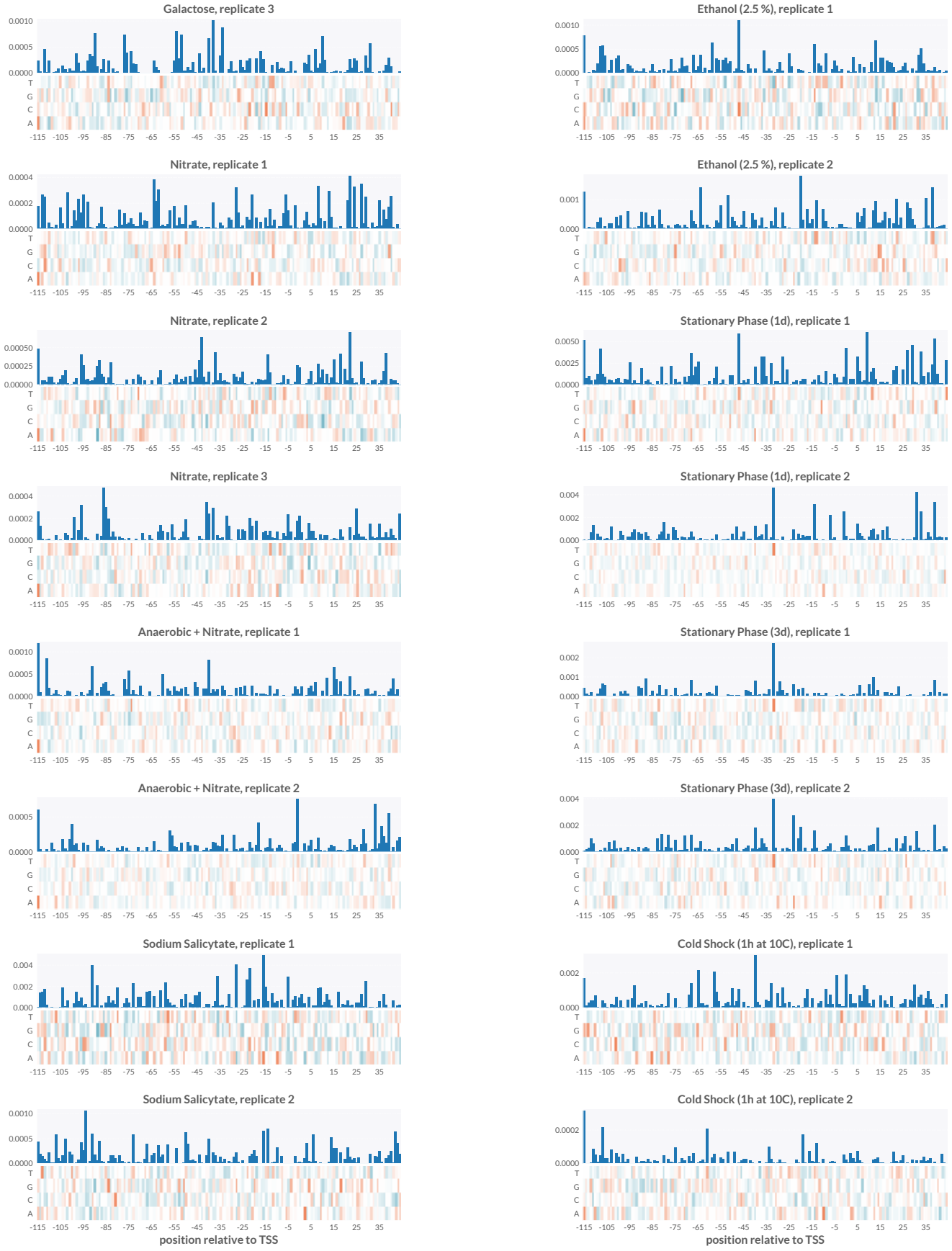
dicA


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

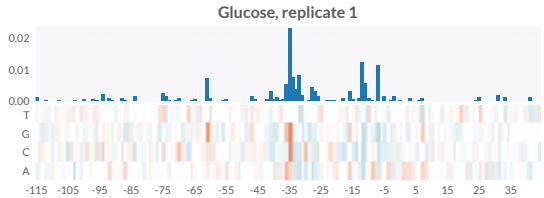
dicA

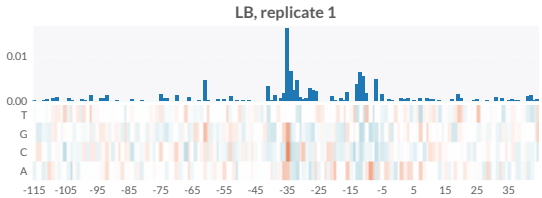

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

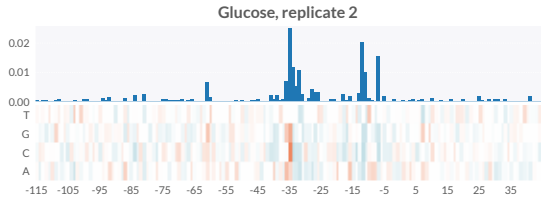
dicA

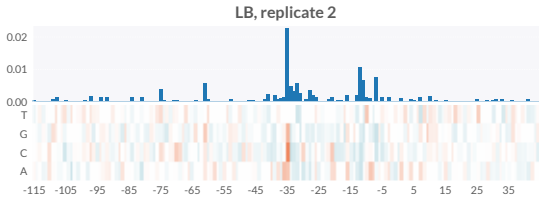

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

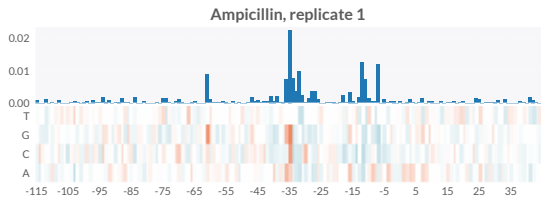
aceBp

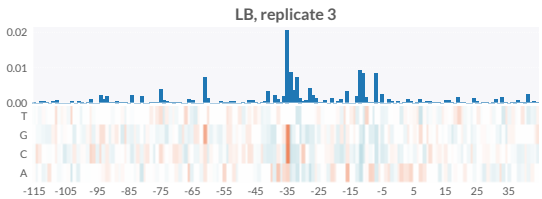

Glucose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

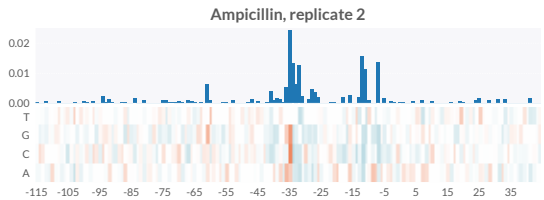

LB, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

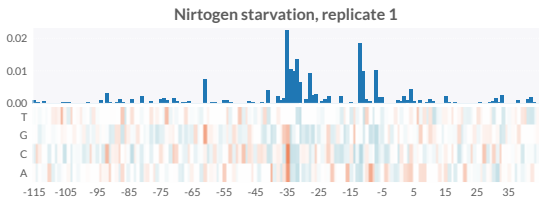

Glucose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

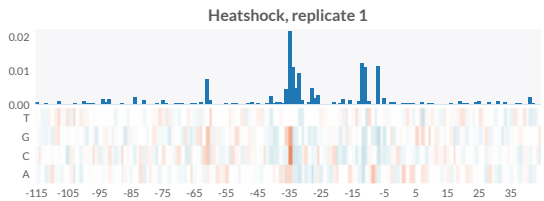

LB, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

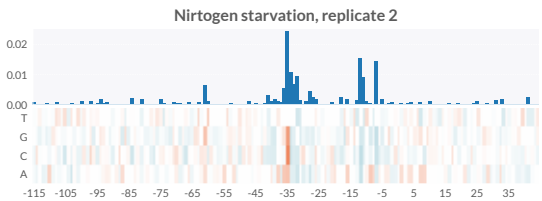

Ampicillin, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

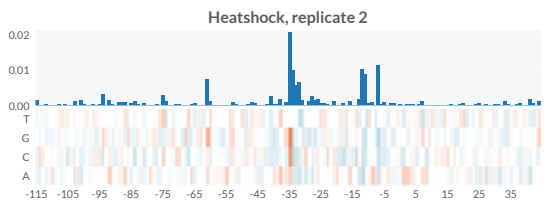

LB, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

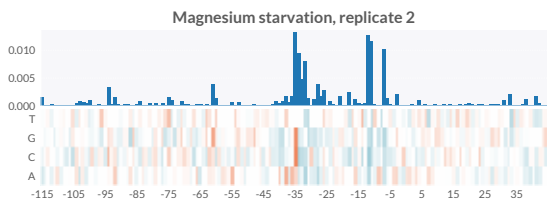

Ampicillin, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

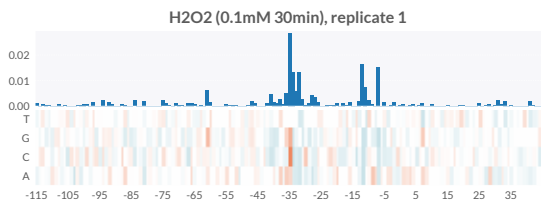

Nirtogen starvation, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

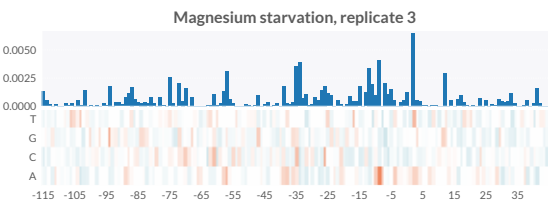

Heatshock, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

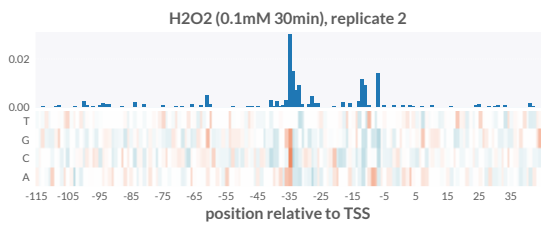

Nirtogen starvation, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

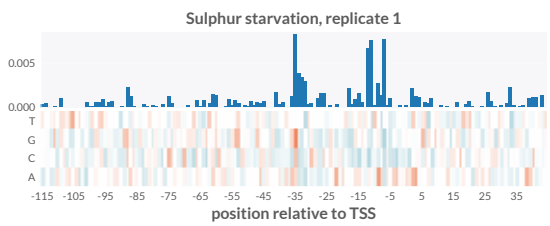

Heatshock, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

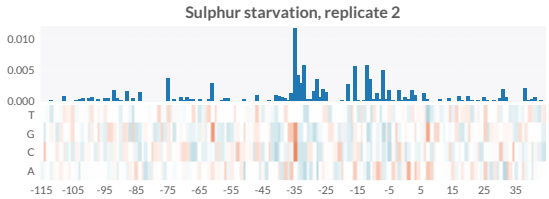

H2O2 (0.1mM 30min), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

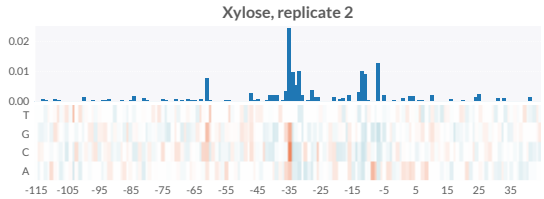

Magnesium starvation, replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

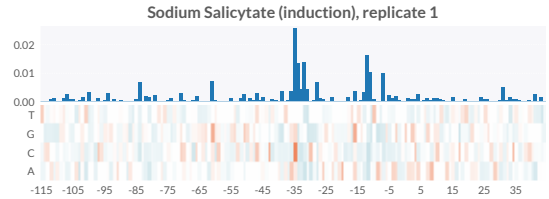

H2O2 (0.1mM 30min), replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

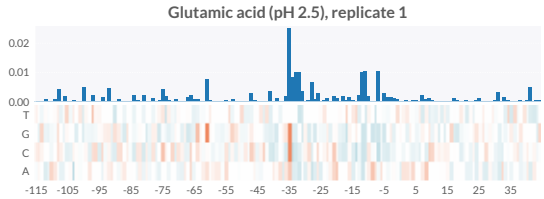

Sulphur starvation, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

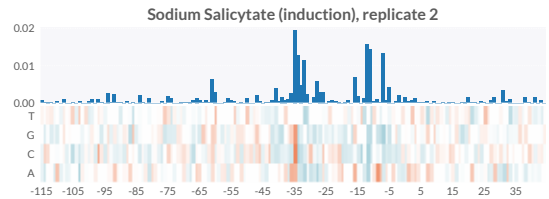
aceBp

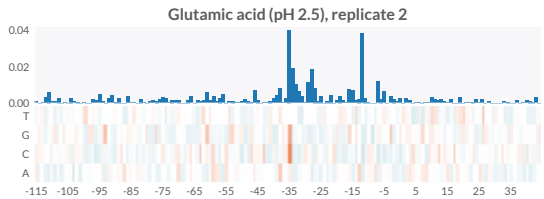

Sulphur starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

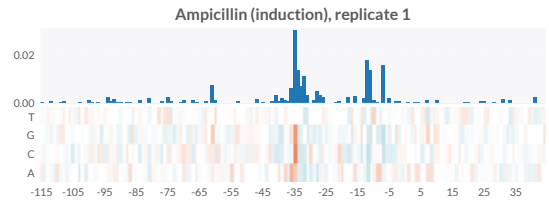

Xylose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

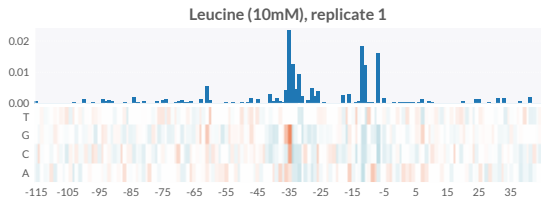

Sodium Salicytate (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

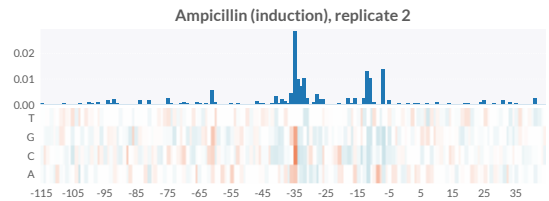

Glutamic acid (pH 2.5), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

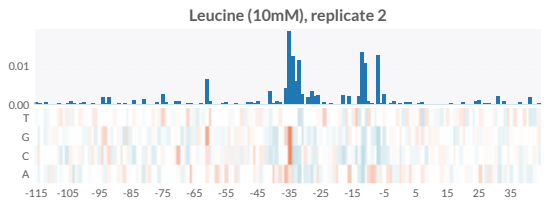

Sodium Salicytate (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

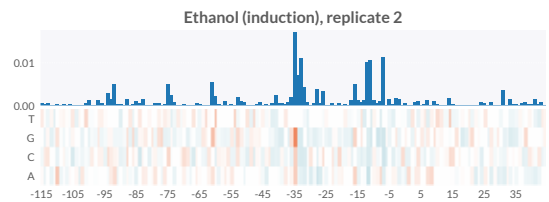

Glutamic acid (pH 2.5), replicate 2
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

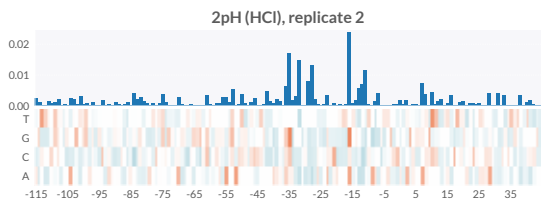

Ampicillin (induction), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

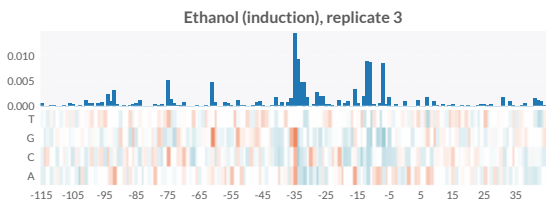

Leucine (10mM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

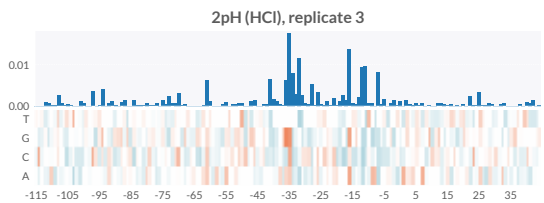

Ampicillin (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

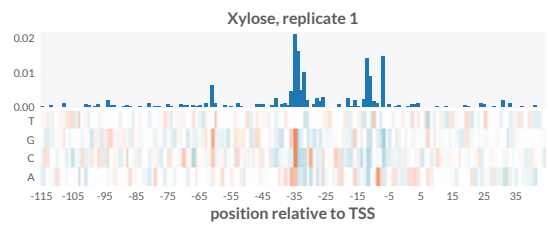

Leucine (10mM), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

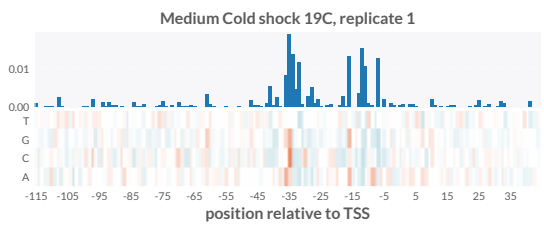

Ethanol (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

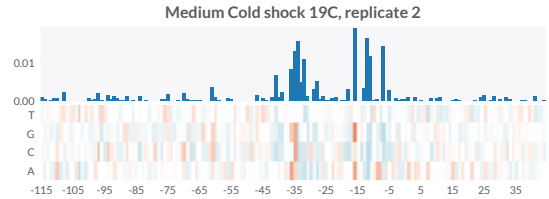

Ethanol (induction), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

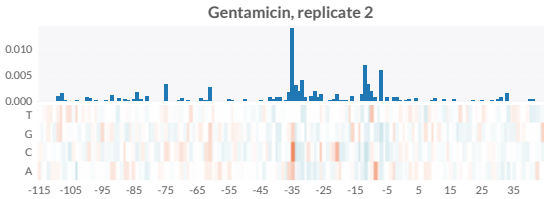

2pH (HCl), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

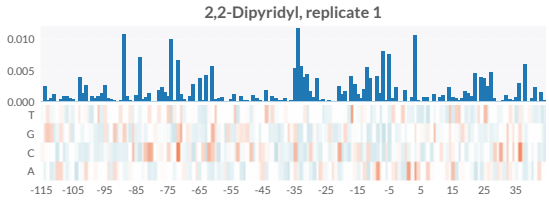

Xylose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

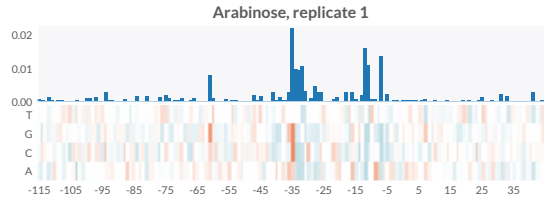

Medium Cold shock 19C, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

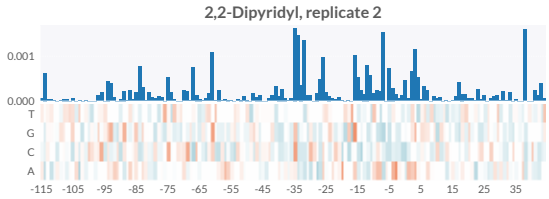
aceBp

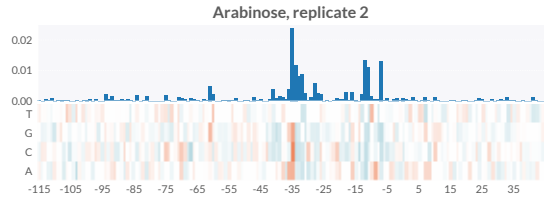

Medium Cold shock 19C, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

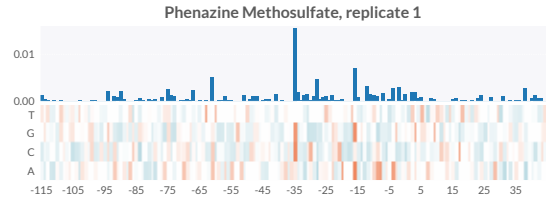

Gentamicin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

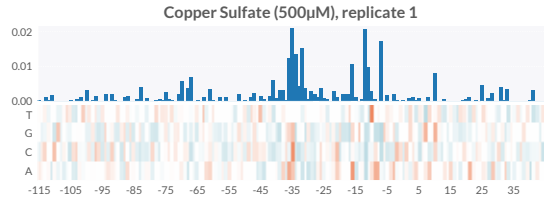

2,2-Dipyridyl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

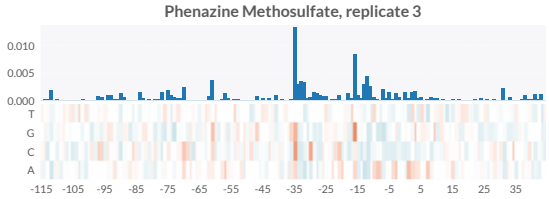

Arabinose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

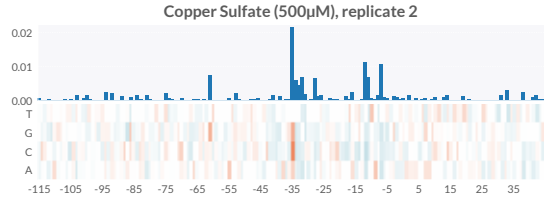

2,2-Dipyridyl, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

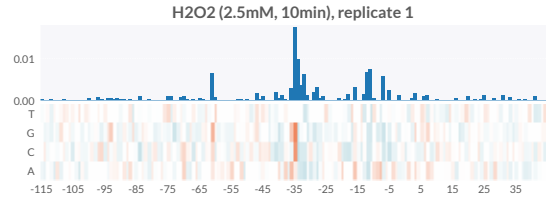

Arabinose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

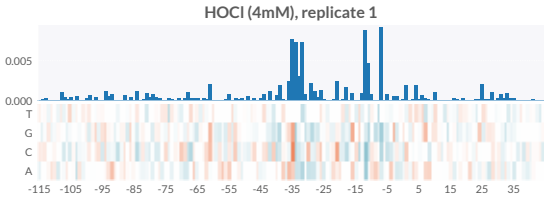

Phenazine Methosulfate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

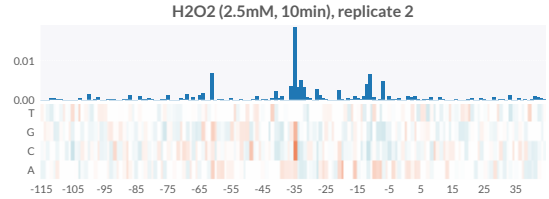

Copper Sulfate (500µM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

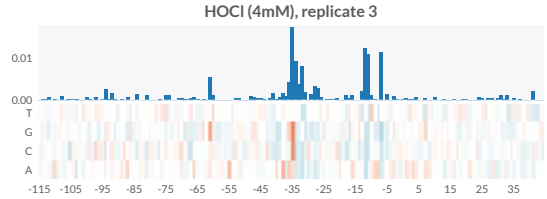

Phenazine Methosulfate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

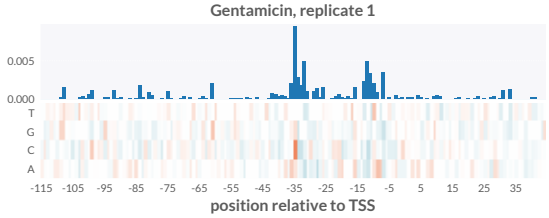

Copper Sulfate (500µM), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

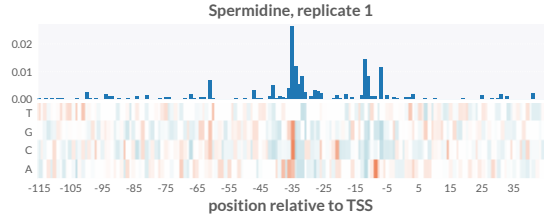

H2O2 (2.5mM, 10min), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

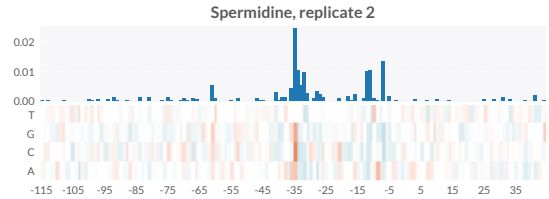

H2O2 (2.5mM, 10min), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

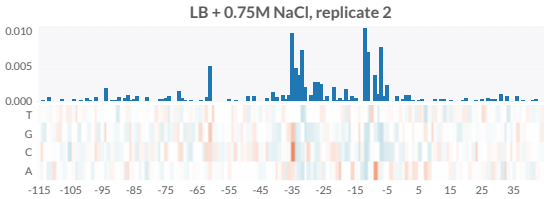

HOCl (4mM), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

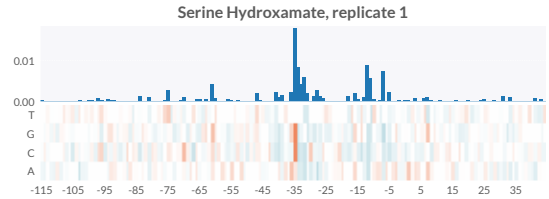

Gentamicin, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

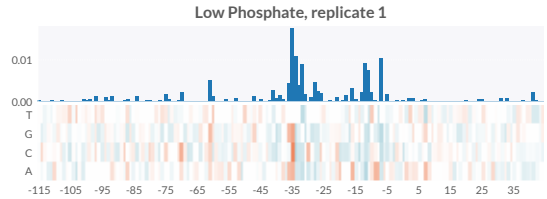

Spermidine, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

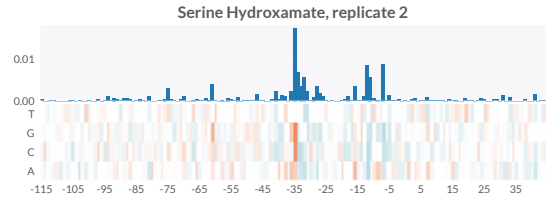
aceBp

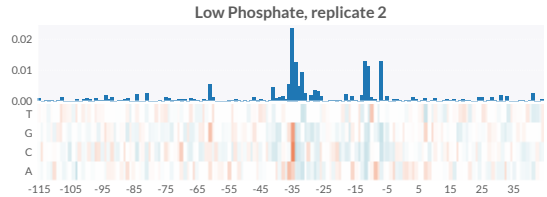

Spermidine, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

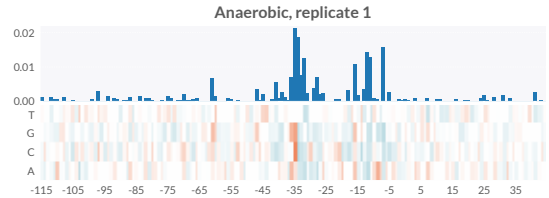

LB + 0.75M NaCl, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

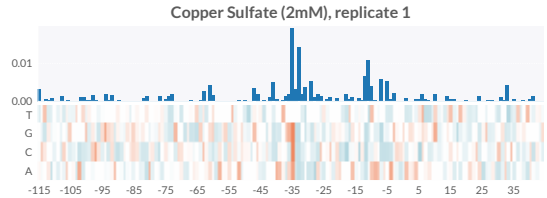

Serine Hydroxamate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

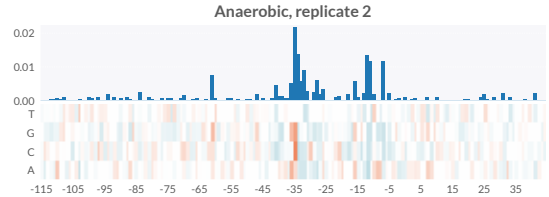

Low Phosphate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

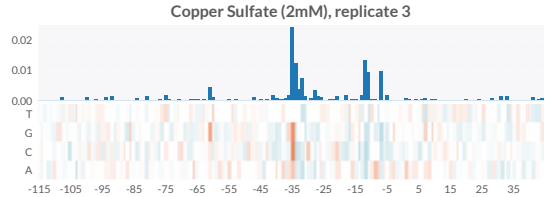

Serine Hydroxamate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

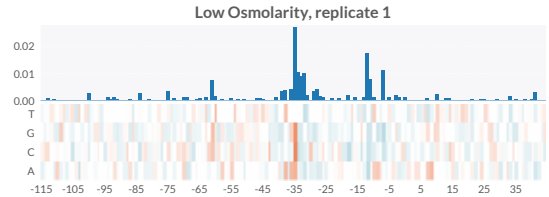

Low Phosphate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

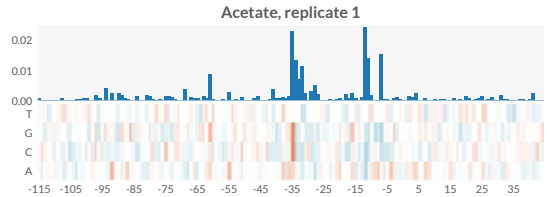

Anaerobic, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

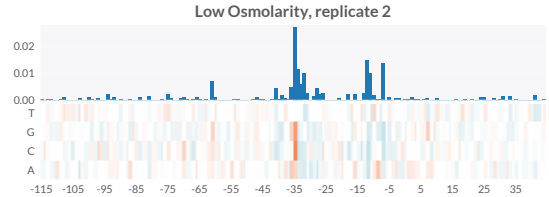

Copper Sulfate (2mM), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

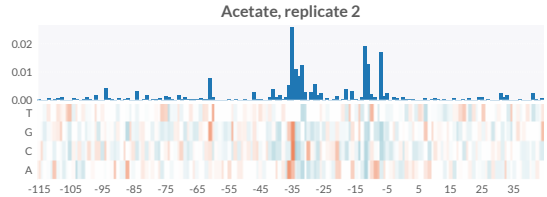

Anaerobic, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

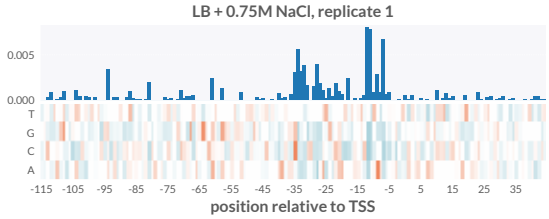

Copper Sulfate (2mM), replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

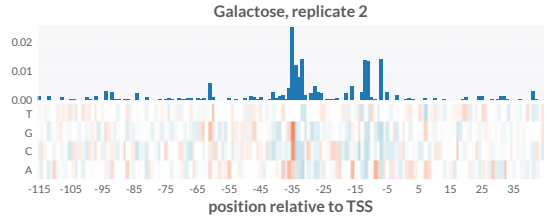

Low Osmolarity, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

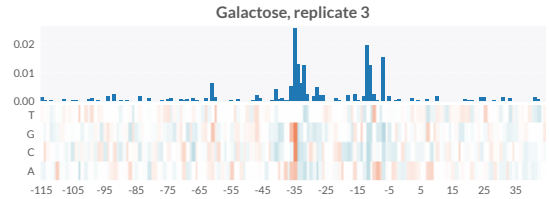

Low Osmolarity, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

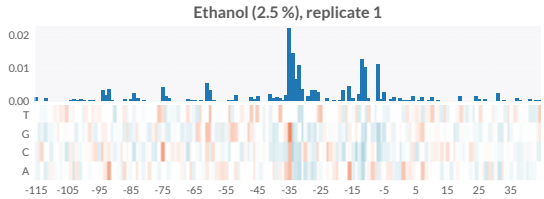

Acetate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

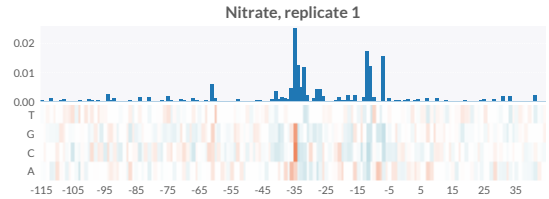

LB + 0.75M NaCl, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

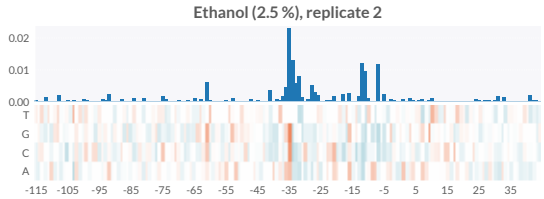

Galactose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

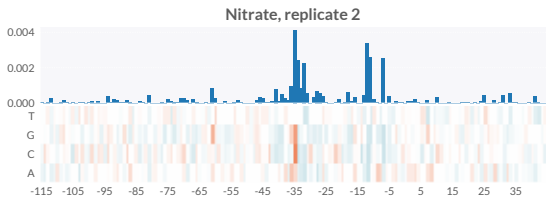
aceBp

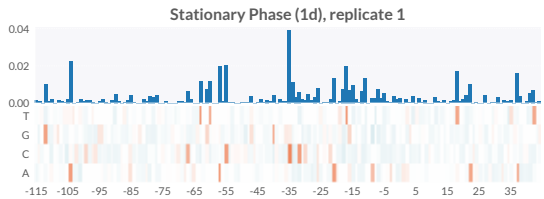

Galactose, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

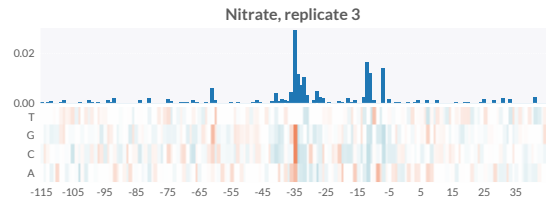

Ethanol (2.5 %), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

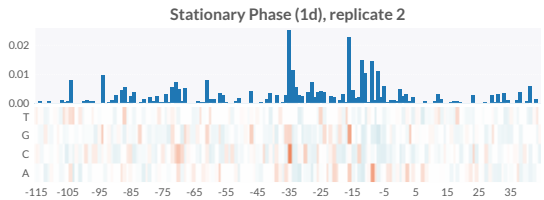

Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

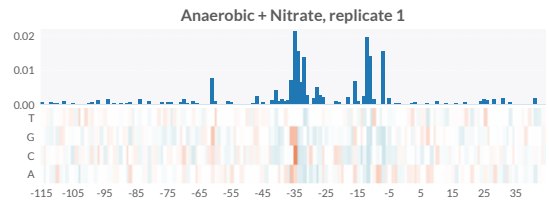

Ethanol (2.5 %), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

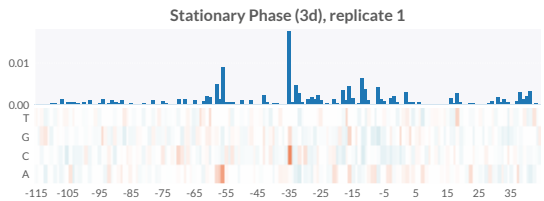

Nitrate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

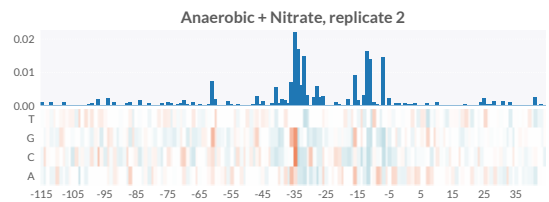

Stationary Phase (1d), replicate 1
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

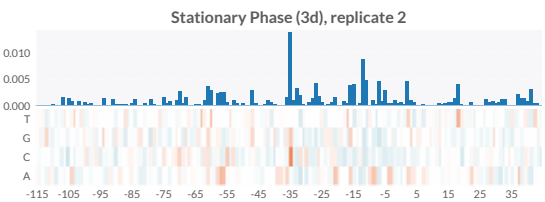

Nitrate, replicate 3
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

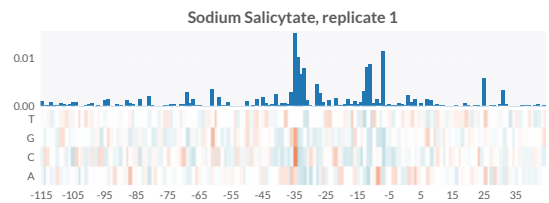

Stationary Phase (1d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

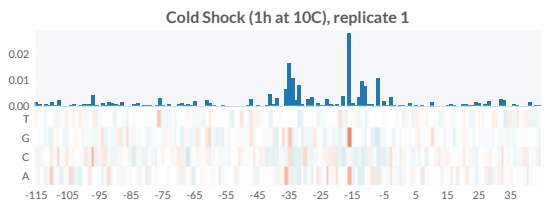

Anaerobic + Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

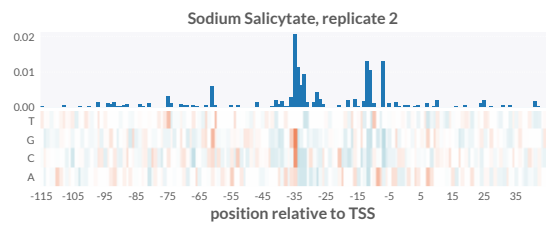

Stationary Phase (3d), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

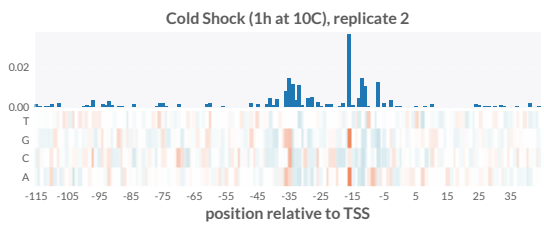

Anaerobic + Nitrate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

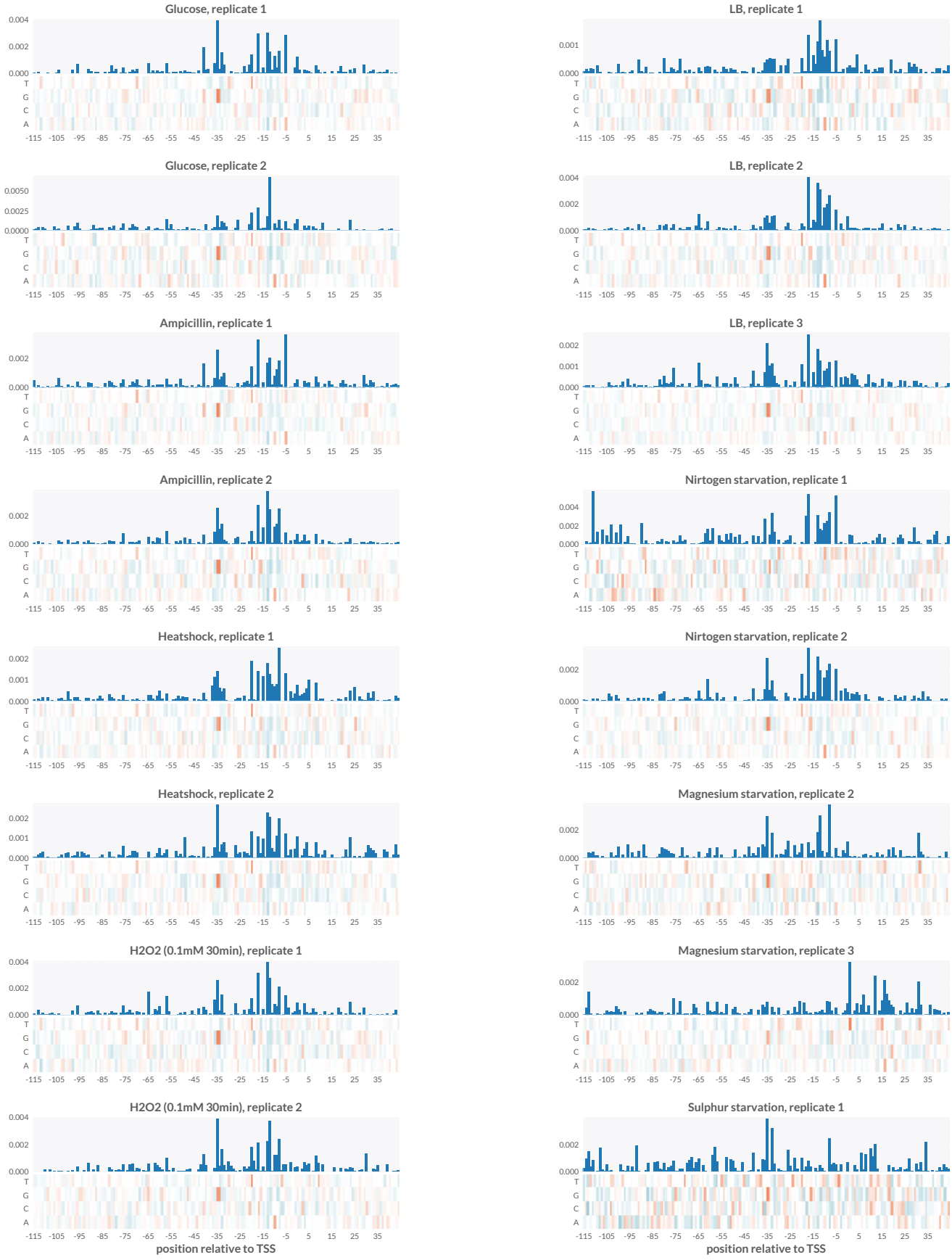

Sodium Salicytate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

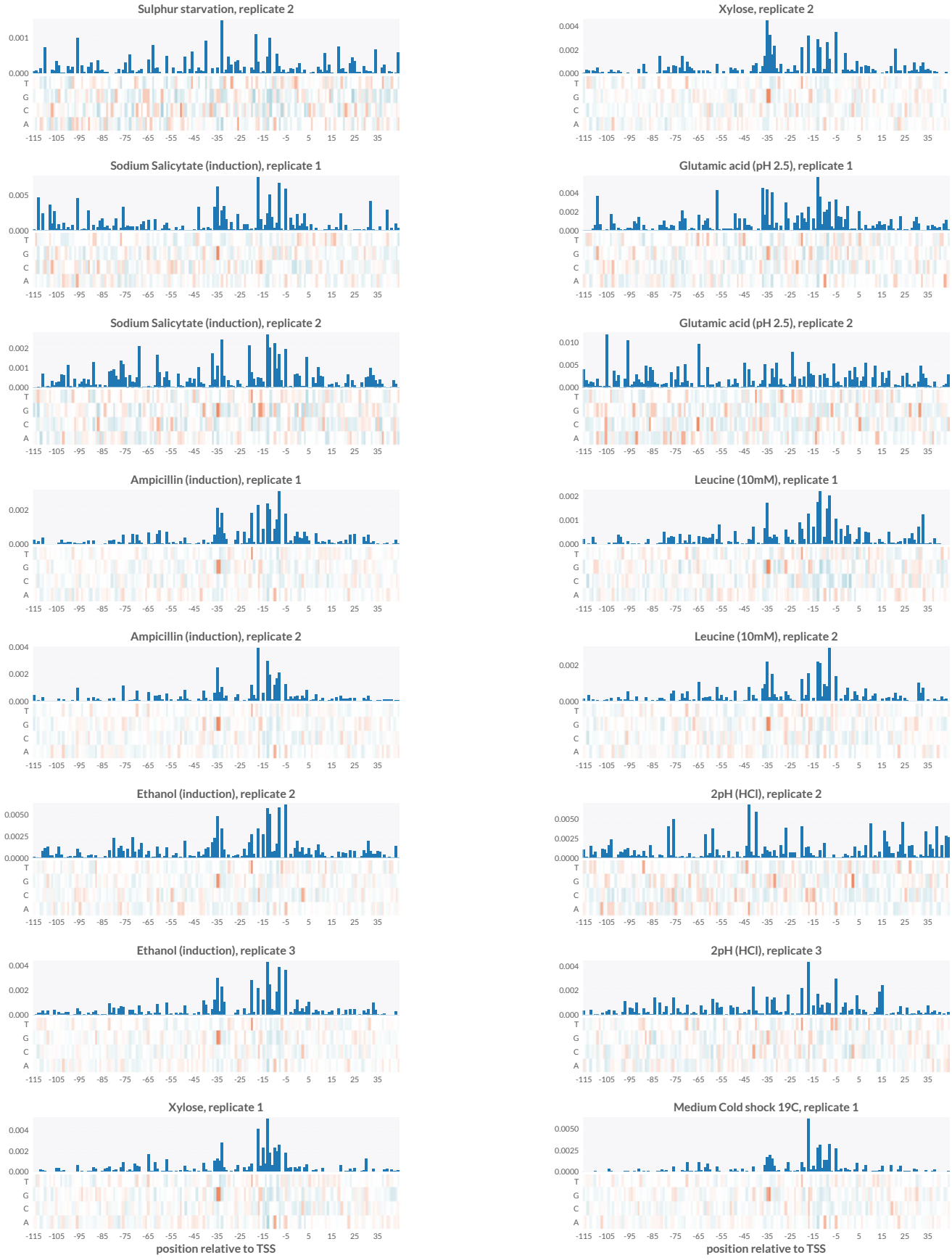

Sodium Salicytate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

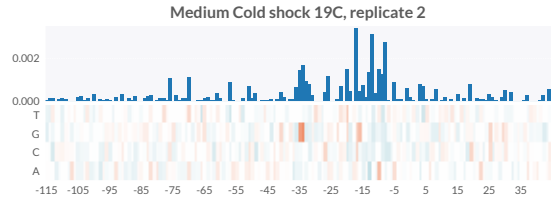
acrAp

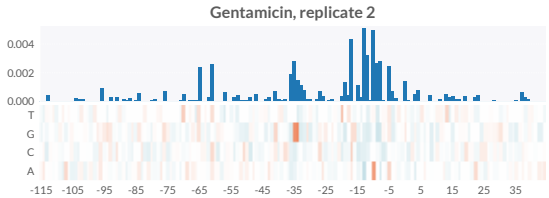

Glucose, replicate 1
Glucose, replicate 2
Ampicillin, replicate 1
Ampicillin, replicate 2
Heatshock, replicate 1
Heatshock, replicate 2
H2O2 (0.1mM 30min), replicate 1
H2O2 (0.1mM 30min), replicate 2
LB, replicate 1
LB, replicate 2
LB, replicate 3
Nirtogen starvation, replicate 1
Nirtogen starvation, replicate 2
Magnesium starvation, replicate 2
Magnesium starvation, replicate 3
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

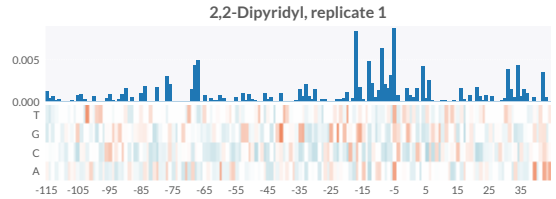
acrAp

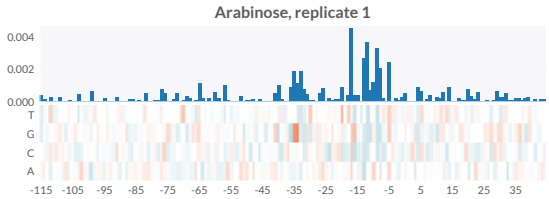

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

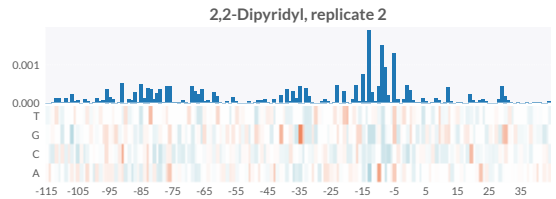
acrAp

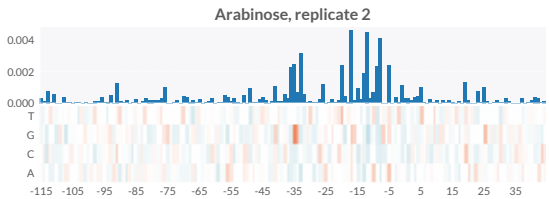

Medium Cold shock 19C, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

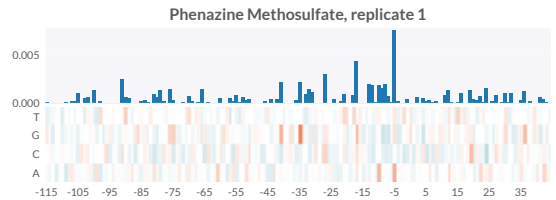

Gentamicin, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

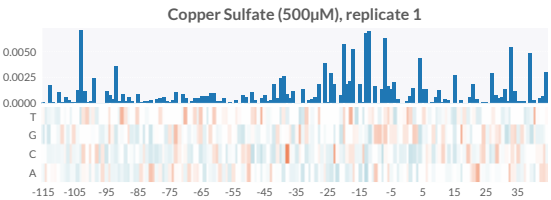

2,2-Dipyridyl, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

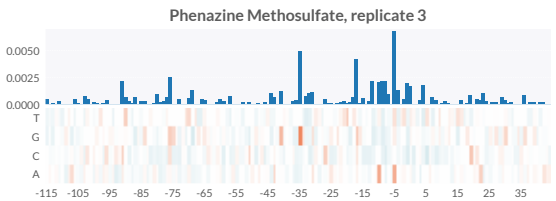

Arabinose, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

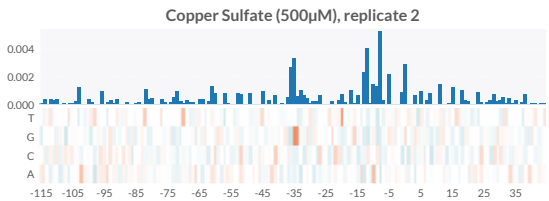

2,2-Dipyridyl, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

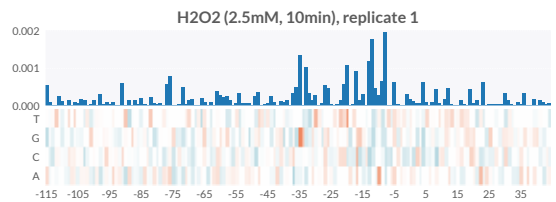

Arabinose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

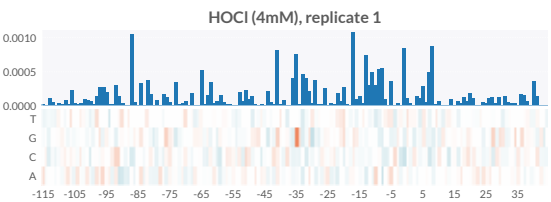

Phenazine Methosulfate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

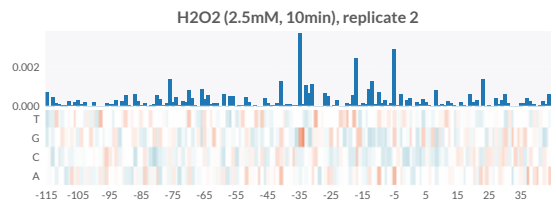

Copper Sulfate (500µM), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

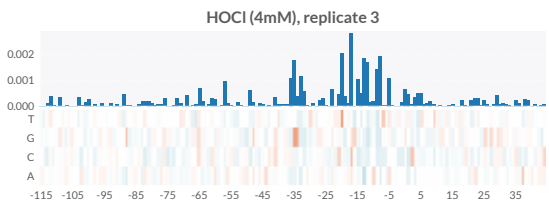

Phenazine Methosulfate, replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

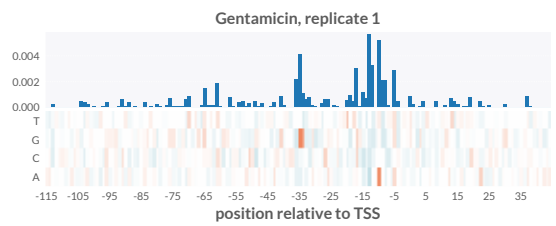

Copper Sulfate (500µM), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

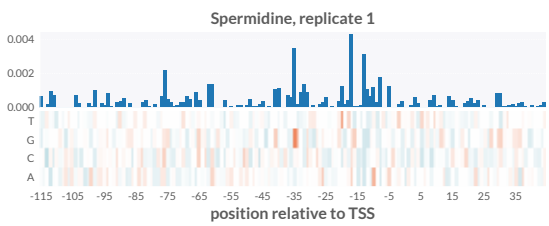

H2O2 (2.5mM, 10min), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

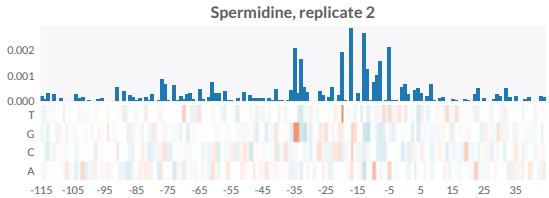

H2O2 (2.5mM, 10min), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

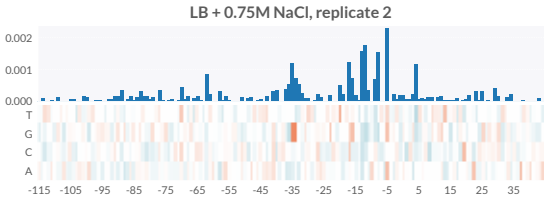

HOCl (4mM), replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

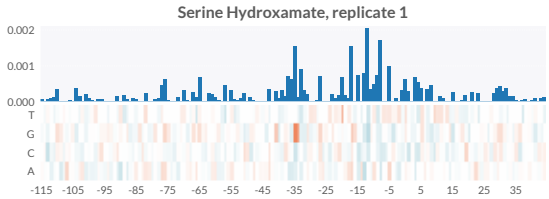

Gentamicin, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

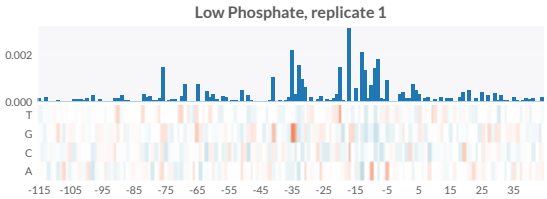

Spermidine, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

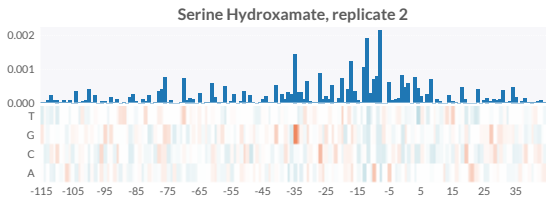
acrAp

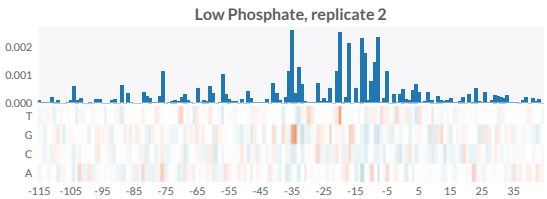

Spermidine, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

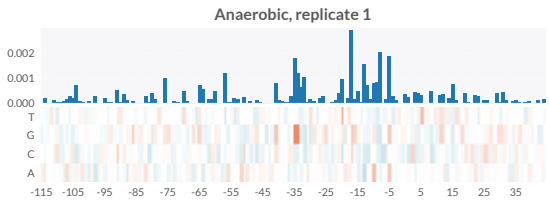

LB + 0.75M NaCl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

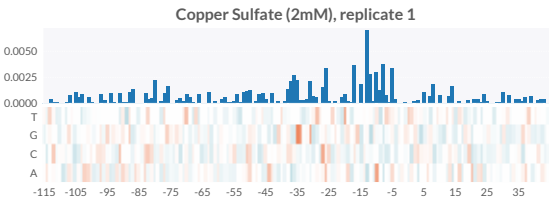

Serine Hydroxamate, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

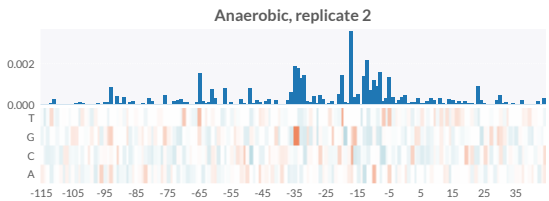

Low Phosphate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

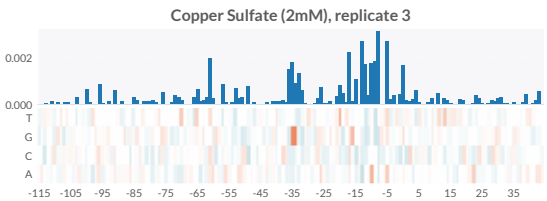

Serine Hydroxamate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

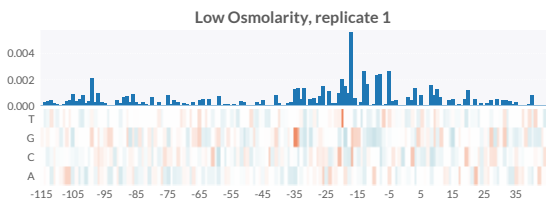

Low Phosphate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

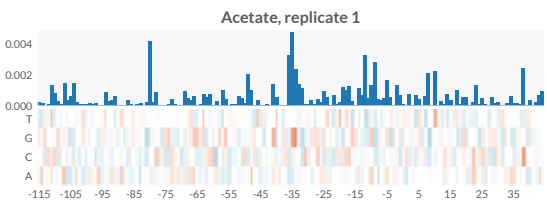

Anaerobic, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

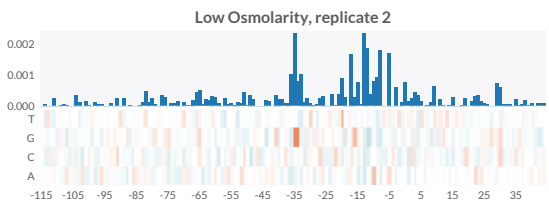

Copper Sulfate (2mM), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

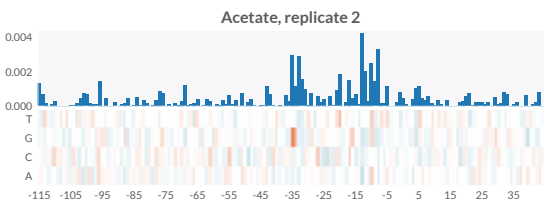

Anaerobic, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

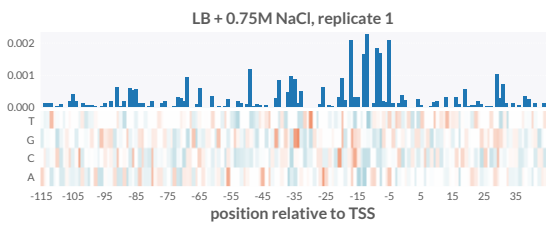

Copper Sulfate (2mM), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

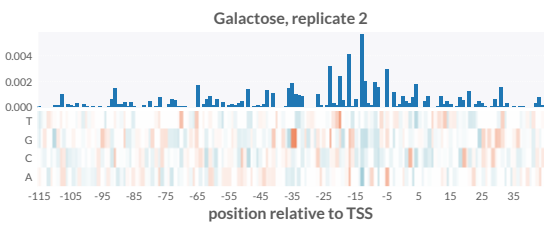

Low Osmolarity, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

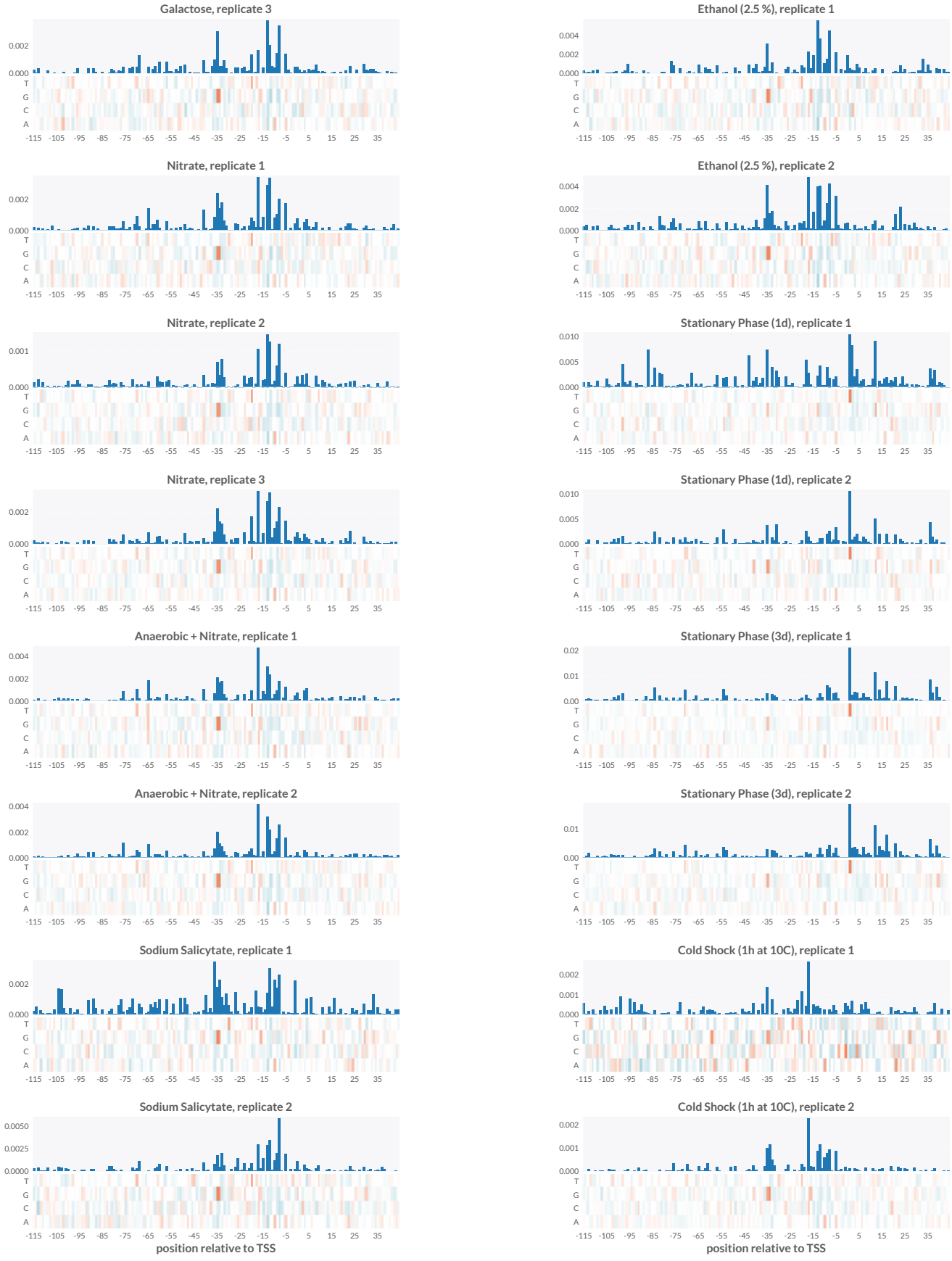

Low Osmolarity, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

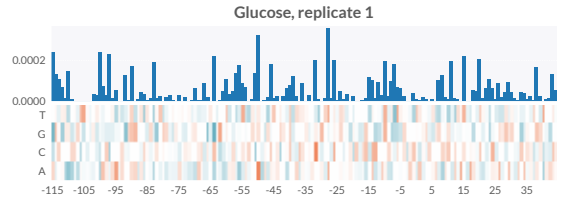

LB + 0.75M NaCl, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

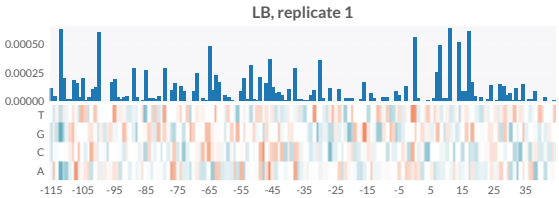

Galactose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

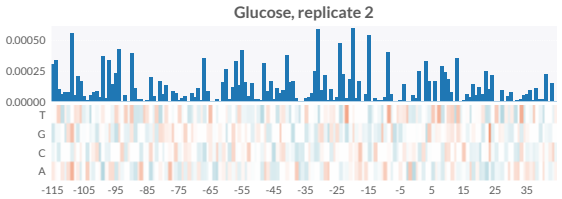
acrAp

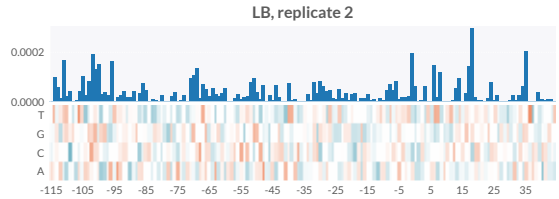

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

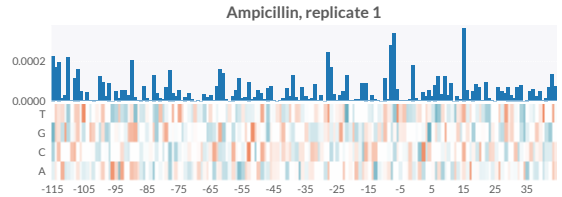
acrBp

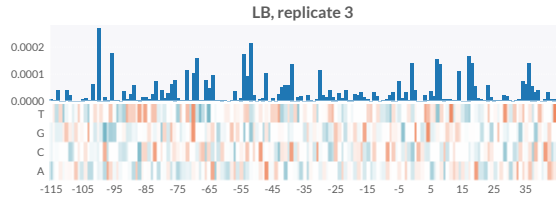

Glucose, replicate 1
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

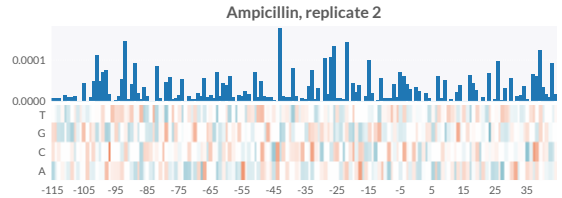

LB, replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

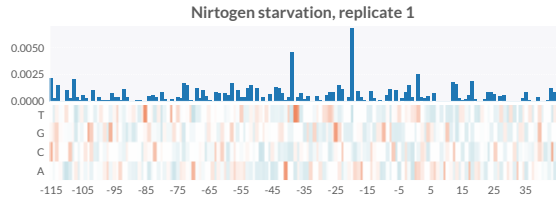

Glucose, replicate 2
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

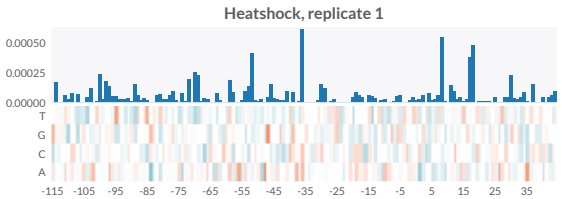

LB, replicate 2
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

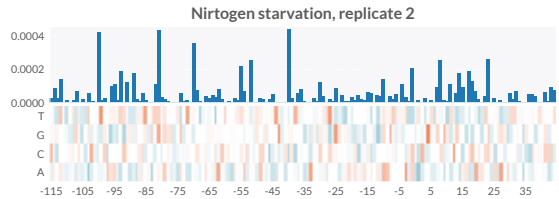

Ampicillin, replicate 1
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

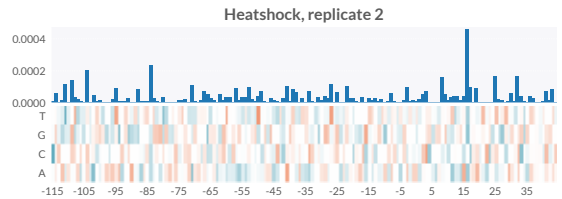

LB, replicate 3
0.0002
0.0001
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

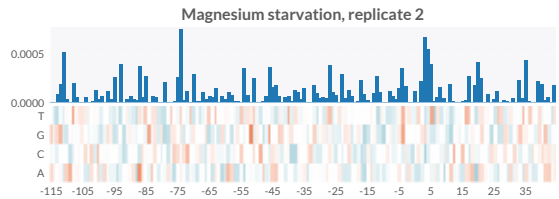

Ampicillin, replicate 2
0.0001
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

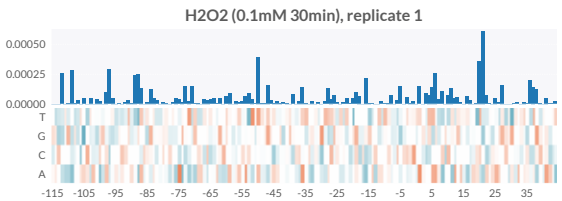

Nirtogen starvation, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

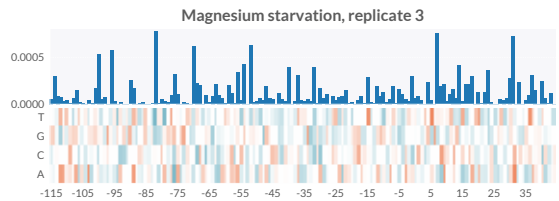

Heatshock, replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

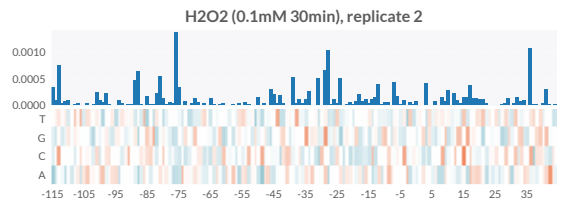

Nirtogen starvation, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

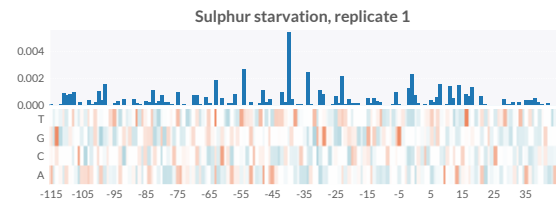

Heatshock, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

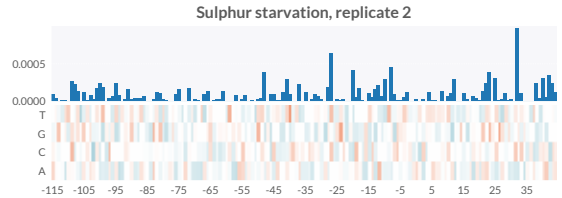

H2O2 (0.1mM 30min), replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

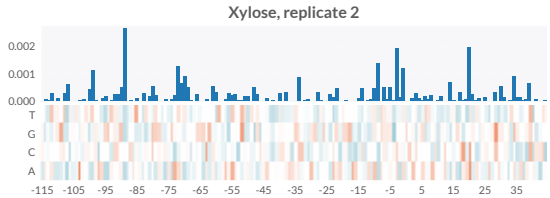

Magnesium starvation, replicate 3
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

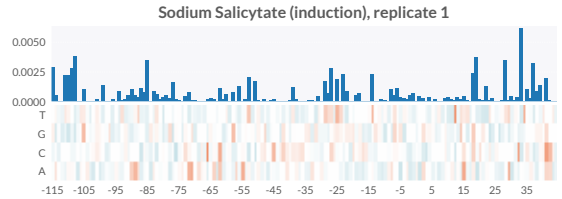

H2O2 (0.1mM 30min), replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

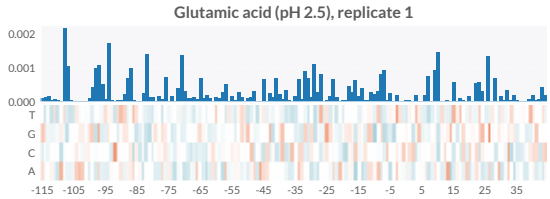

Sulphur starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

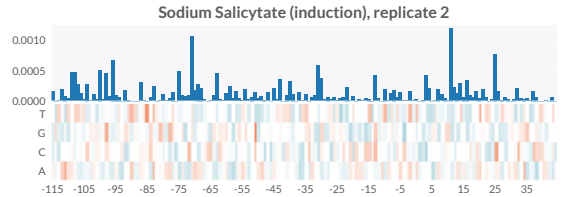
acrBp

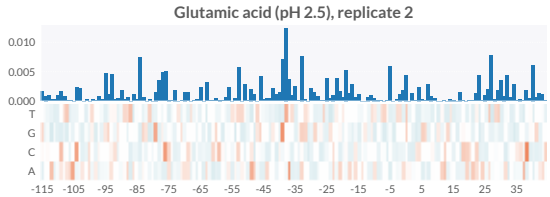

Sulphur starvation, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

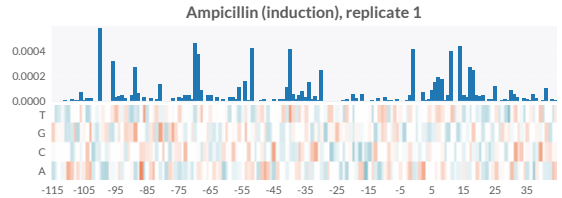

Xylose, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

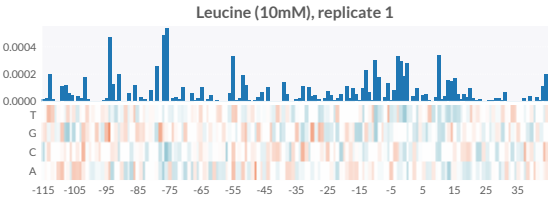

Sodium Salicytate (induction), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

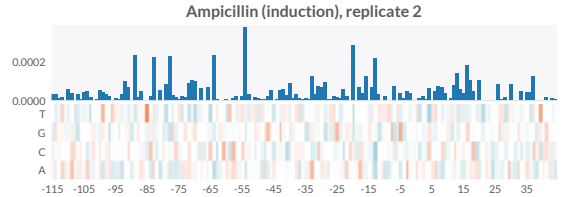

Glutamic acid (pH 2.5), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

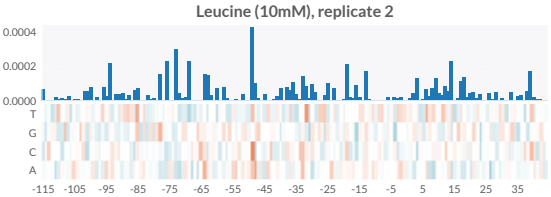

Sodium Salicytate (induction), replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

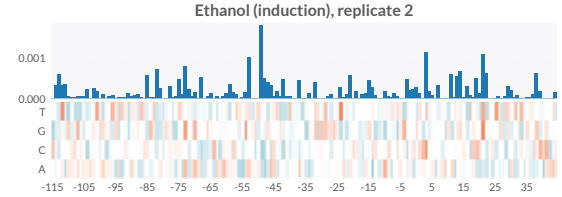

Glutamic acid (pH 2.5), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

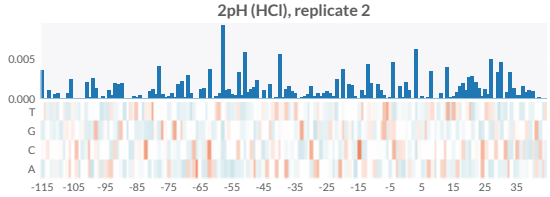

Ampicillin (induction), replicate 1
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

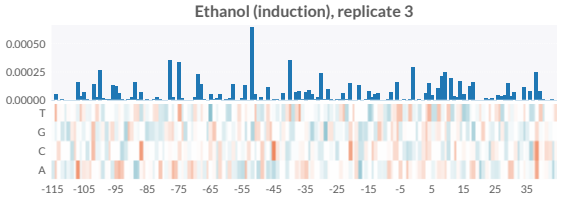

Leucine (10mM), replicate 1
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

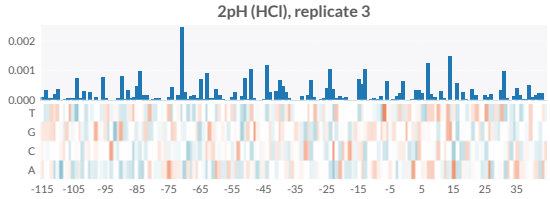

Ampicillin (induction), replicate 2
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

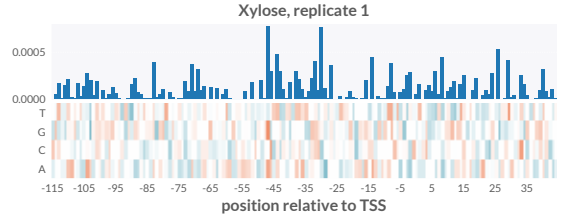

Leucine (10mM), replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

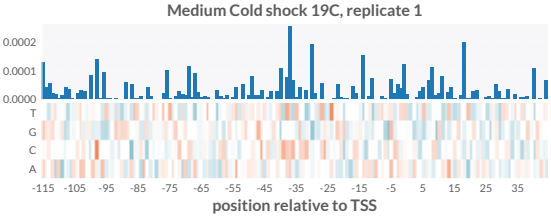

Ethanol (induction), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

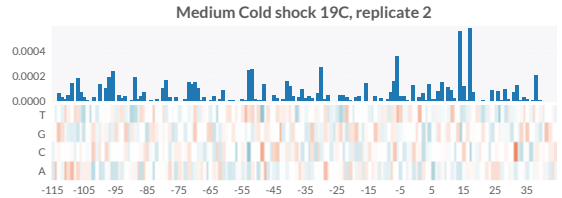

Ethanol (induction), replicate 3
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

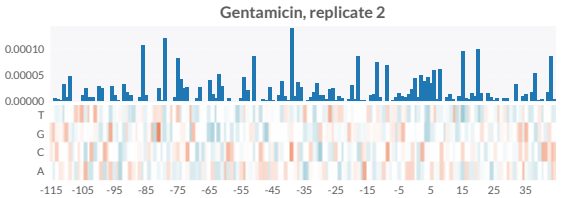

2pH (HCl), replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

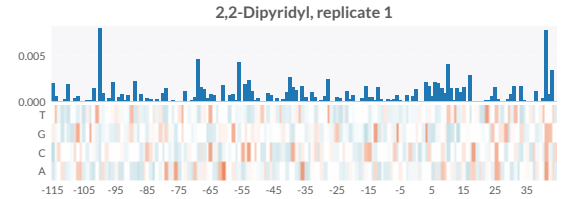

Xylose, replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

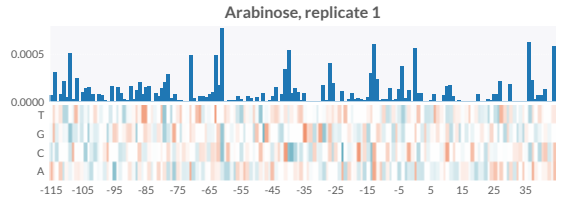

Medium Cold shock 19C, replicate 1
0.0002
0.0001
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

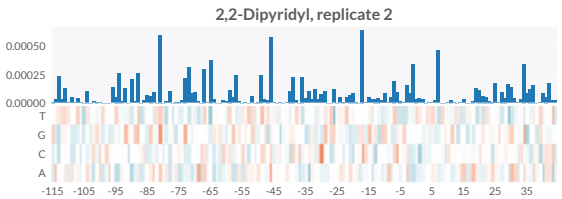
acrBp

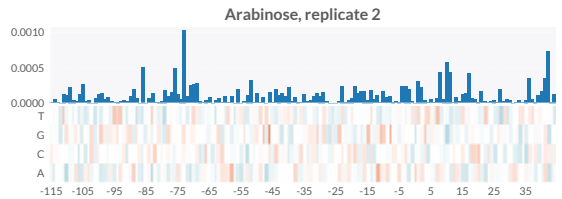

Medium Cold shock 19C, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

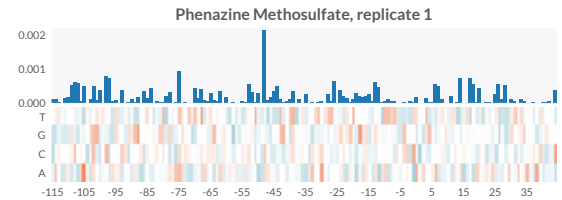

Gentamicin, replicate 2
0.00010
0.00005
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

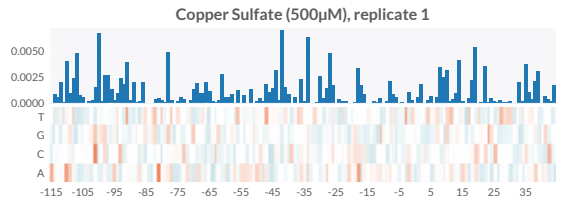

2,2-Dipyridyl, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

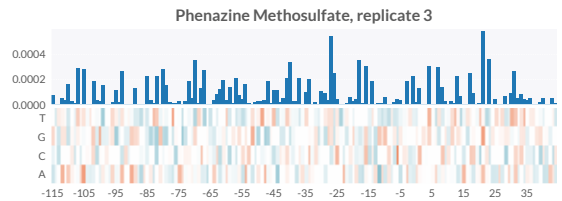

Arabinose, replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

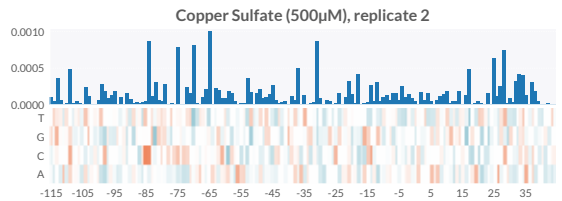

2,2-Dipyridyl, replicate 2
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

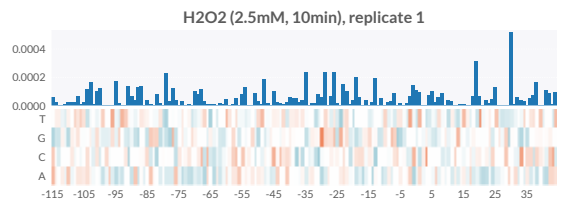

Arabinose, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

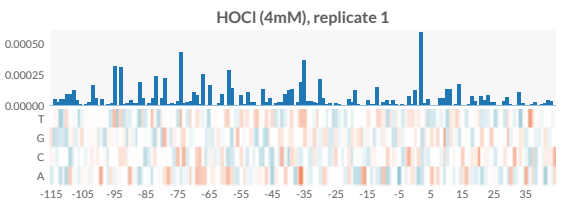

Phenazine Methosulfate, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

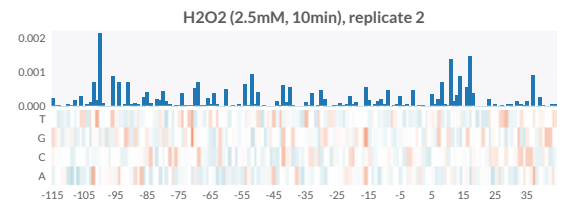

Copper Sulfate (500µM), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

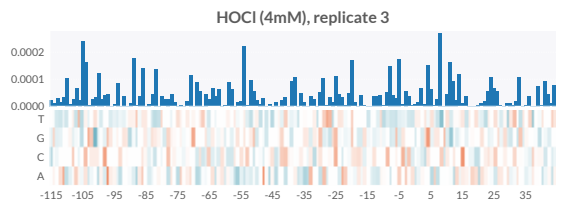

Phenazine Methosulfate, replicate 3
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

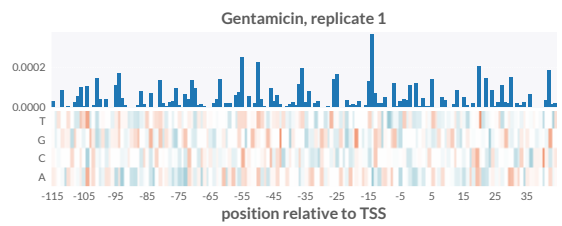

Copper Sulfate (500µM), replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

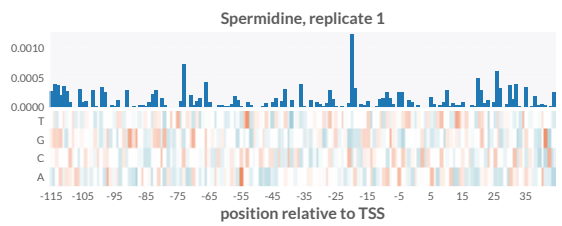

H2O2 (2.5mM, 10min), replicate 1
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

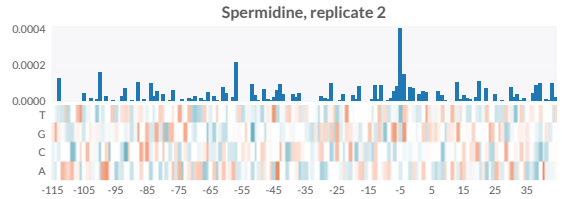

H2O2 (2.5mM, 10min), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

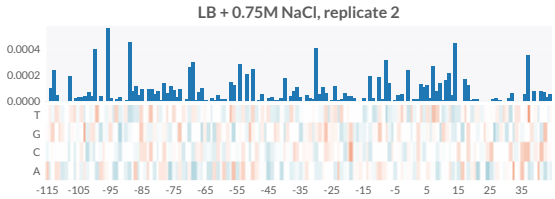

HOCl (4mM), replicate 3
0.0002
0.0001
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

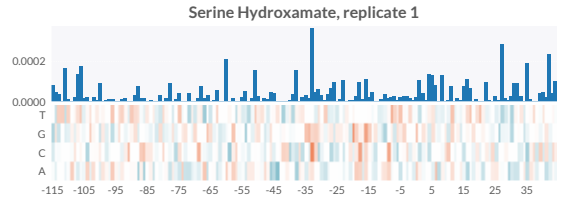

Gentamicin, replicate 1
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

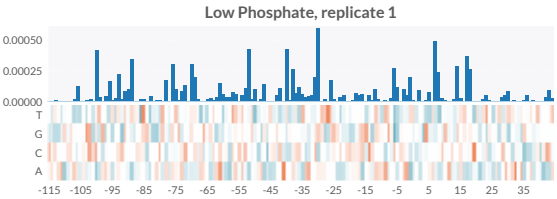

Spermidine, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

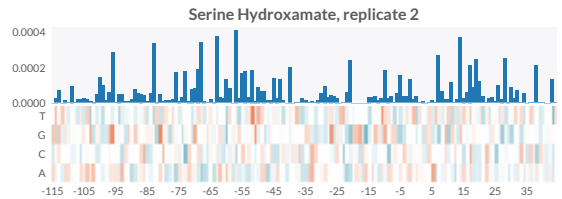
acrBp

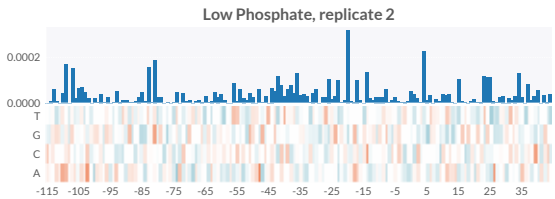

Spermidine, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

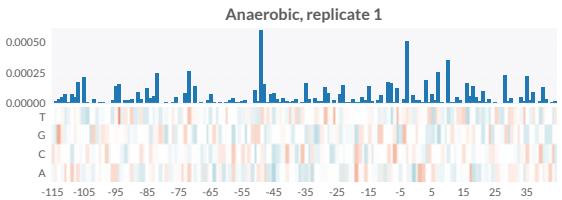

LB + 0.75M NaCl, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

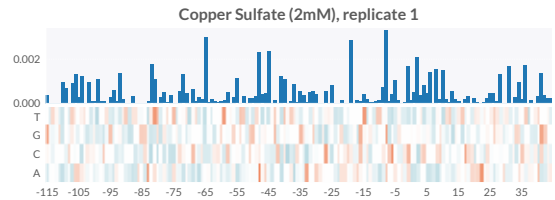

Serine Hydroxamate, replicate 1
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

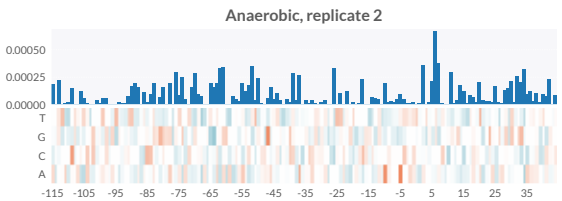

Low Phosphate, replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

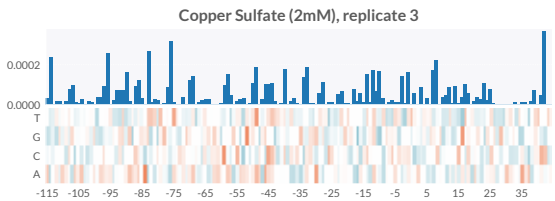

Serine Hydroxamate, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

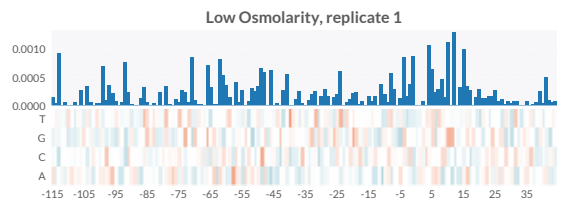

Low Phosphate, replicate 2
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

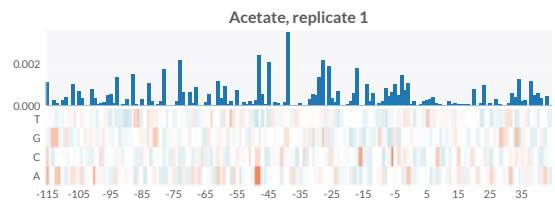

Anaerobic, replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

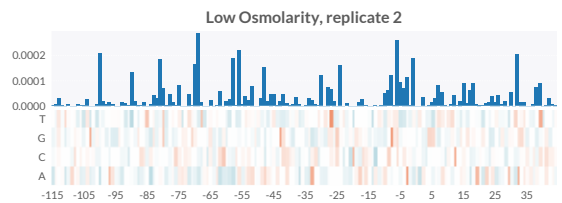

Copper Sulfate (2mM), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

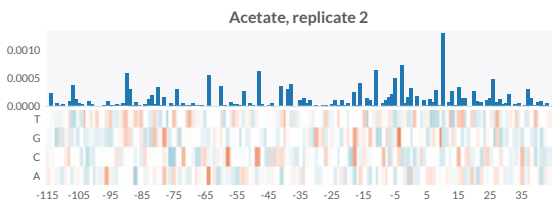

Anaerobic, replicate 2
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

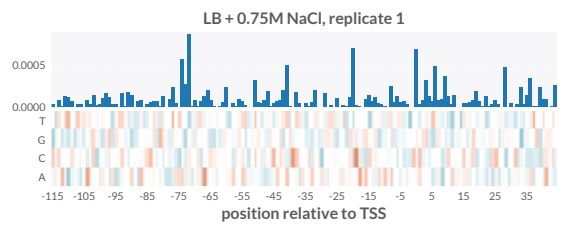

Copper Sulfate (2mM), replicate 3
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

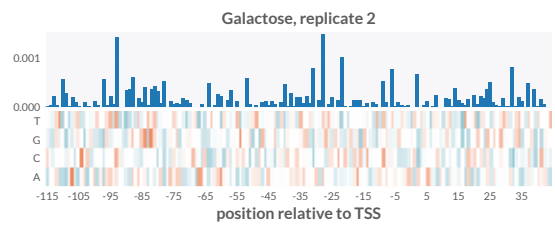

Low Osmolarity, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

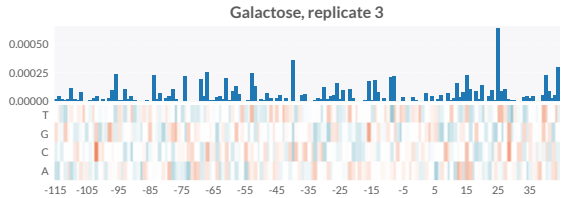

Low Osmolarity, replicate 2
0.0002
0.0001
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

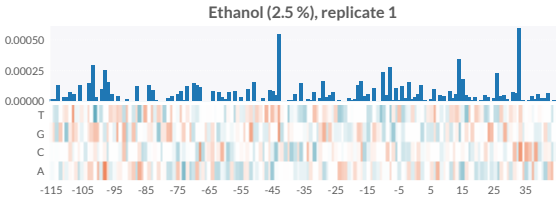

Acetate, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

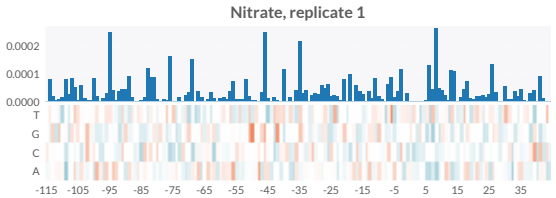

LB + 0.75M NaCl, replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

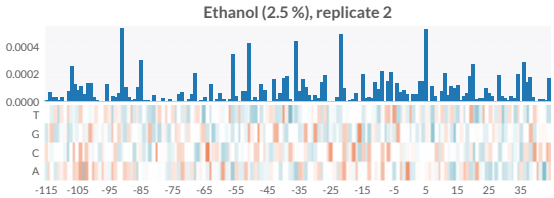

Galactose, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

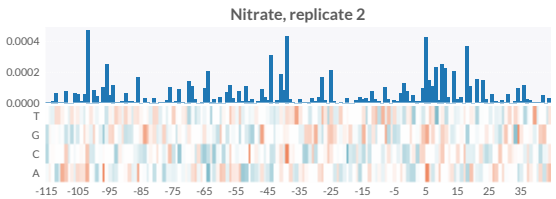
acrBp

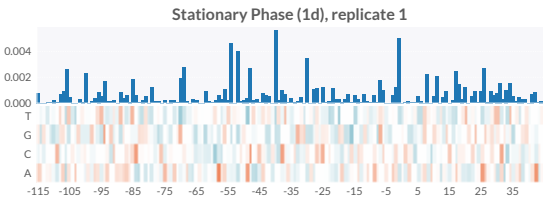

Galactose, replicate 3
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

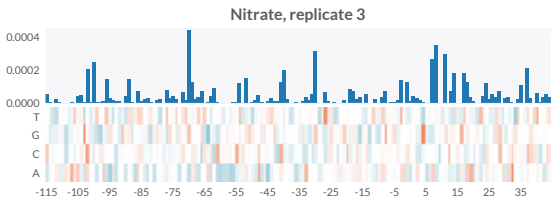

Ethanol (2.5 %), replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

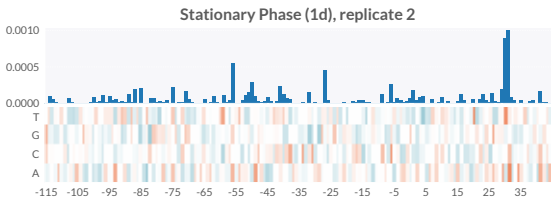

Nitrate, replicate 1
0.0002
0.0001
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

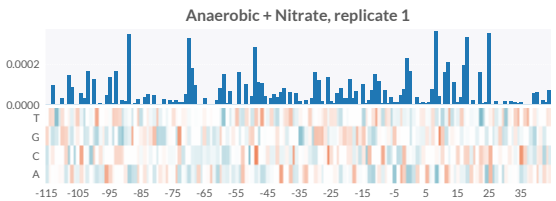

Ethanol (2.5 %), replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

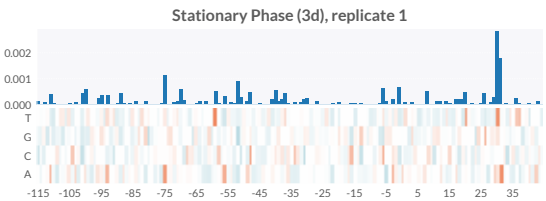

Nitrate, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

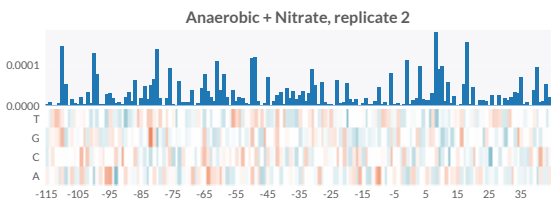

Stationary Phase (1d), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

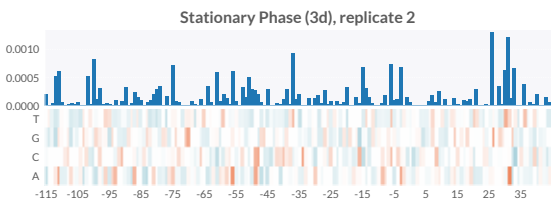

Nitrate, replicate 3
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

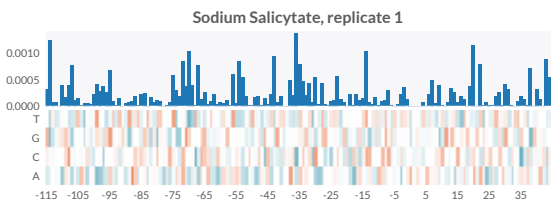

Stationary Phase (1d), replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

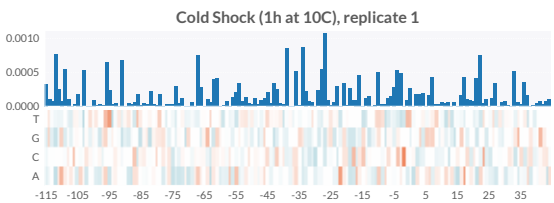

Anaerobic + Nitrate, replicate 1
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

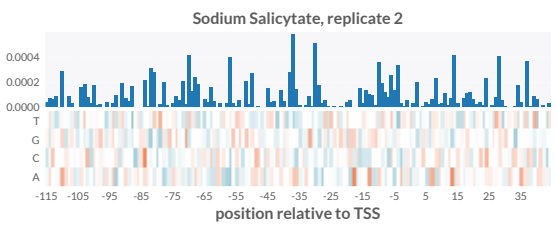

Stationary Phase (3d), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

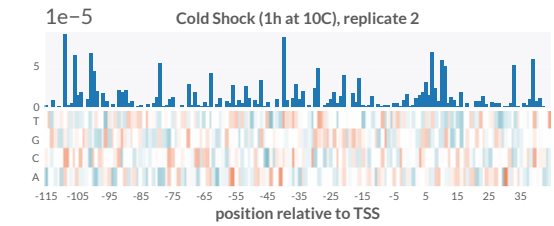

Anaerobic + Nitrate, replicate 2
0.0001
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

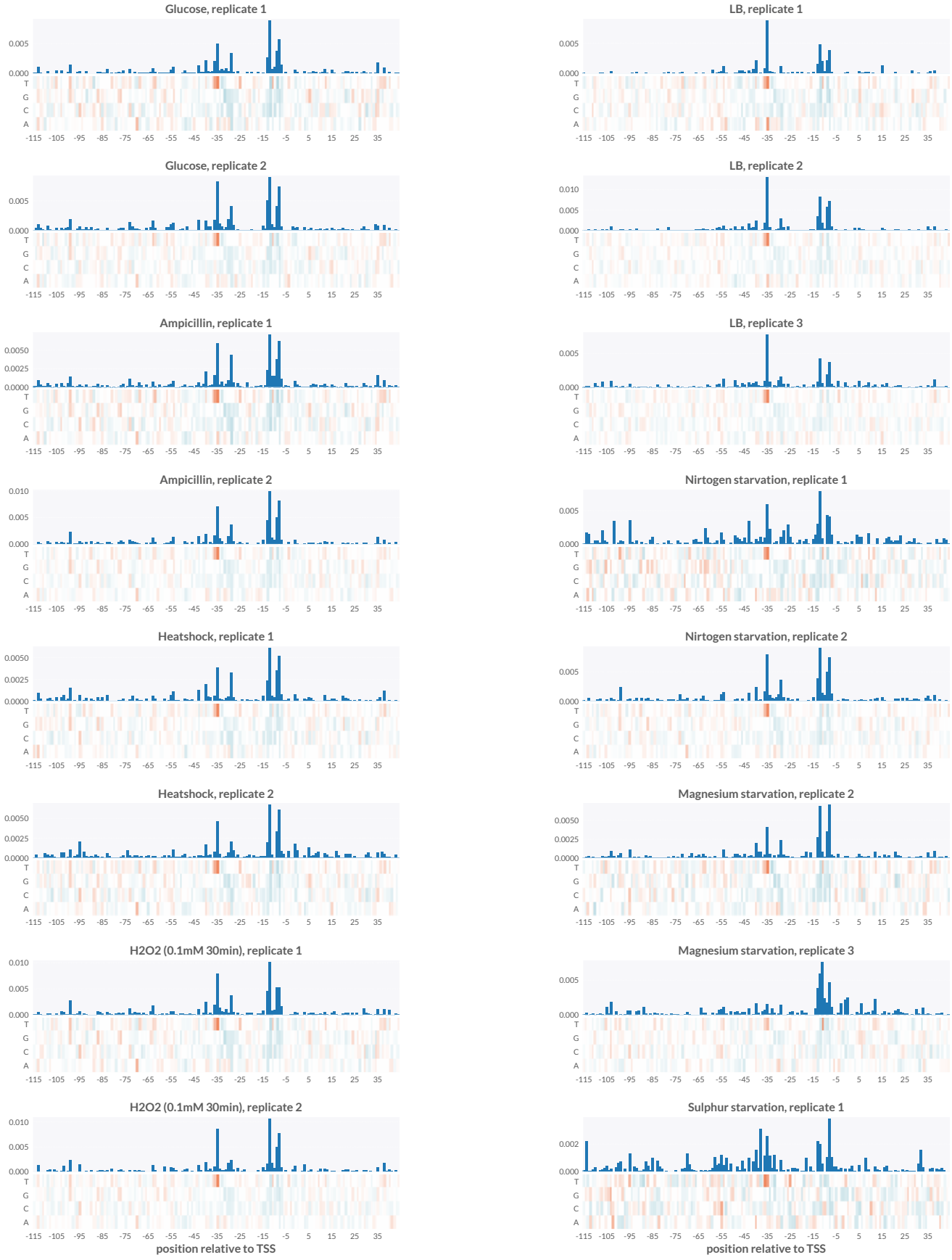

Sodium Salicytate, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

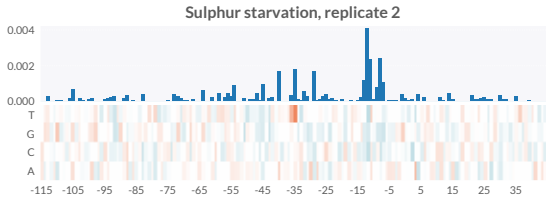

Sodium Salicytate, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

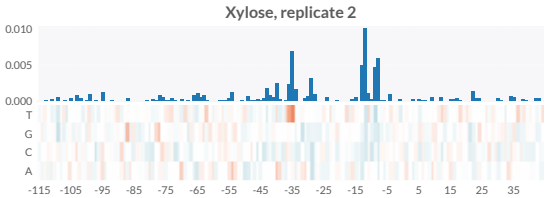

1e−5
Cold Shock (1h at 10C), replicate 2
5
0
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

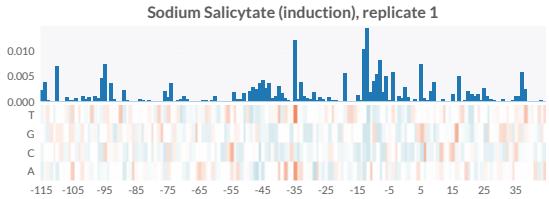
acrZp

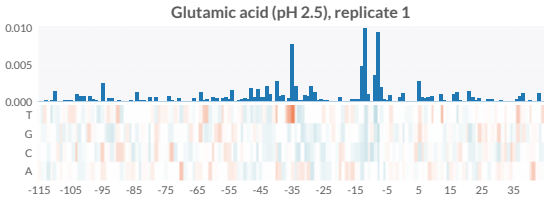

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

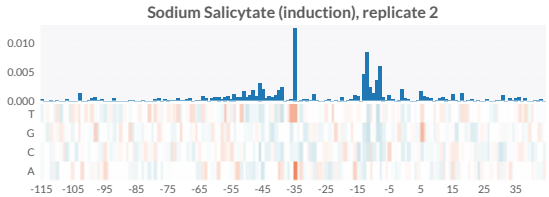
acrZp

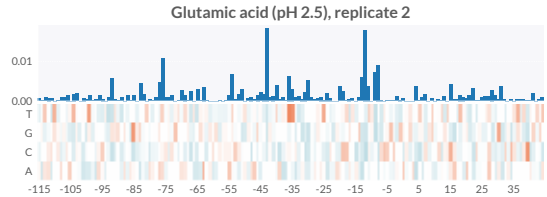

Sulphur starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

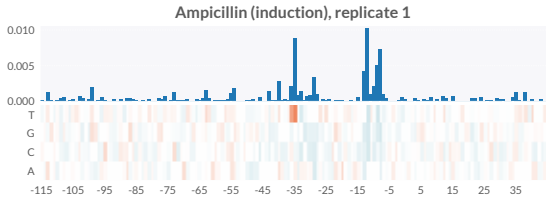

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

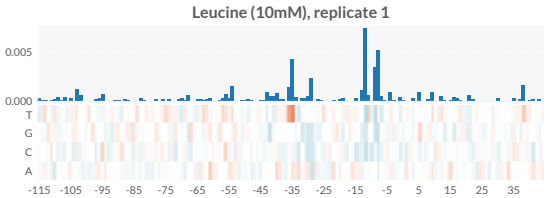

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

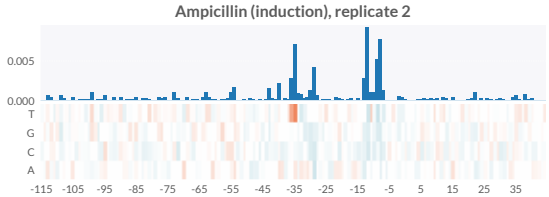

Glutamic acid (pH 2.5), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

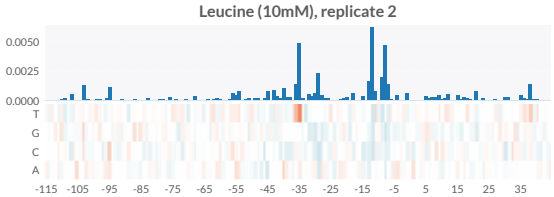

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

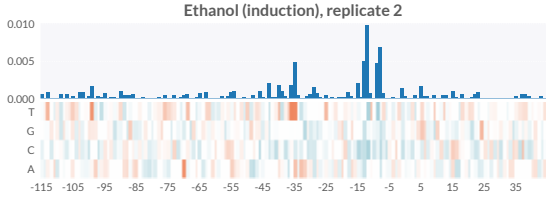

Glutamic acid (pH 2.5), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

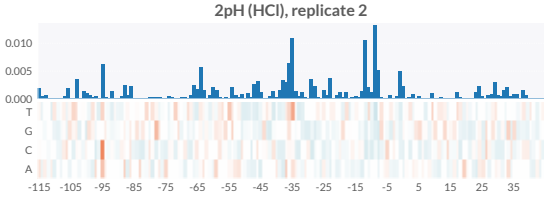

Ampicillin (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

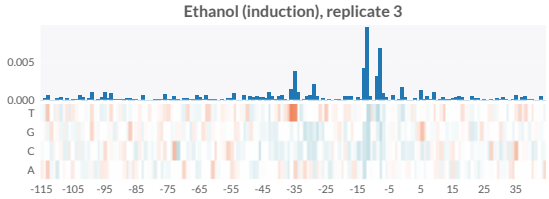

Leucine (10mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

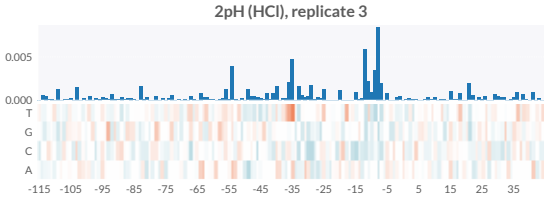

Ampicillin (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

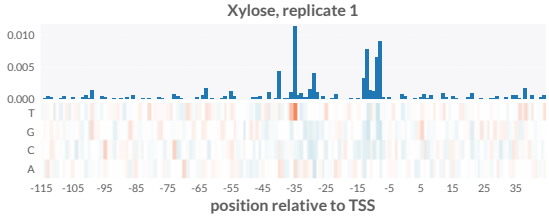

Leucine (10mM), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

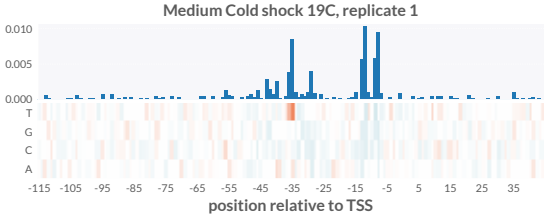

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

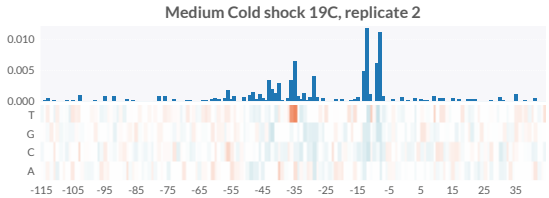

Ethanol (induction), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

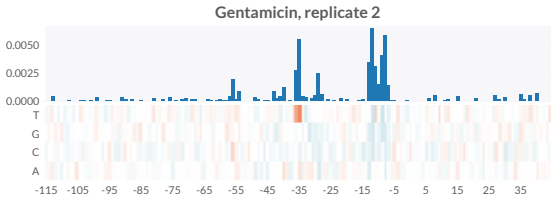

2pH (HCl), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

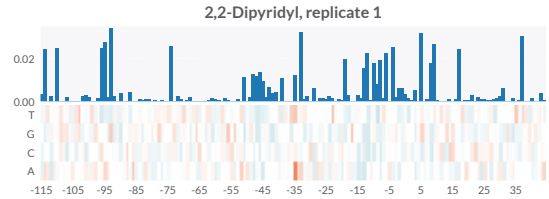

Xylose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

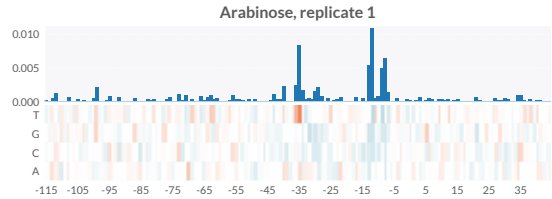

Medium Cold shock 19C, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

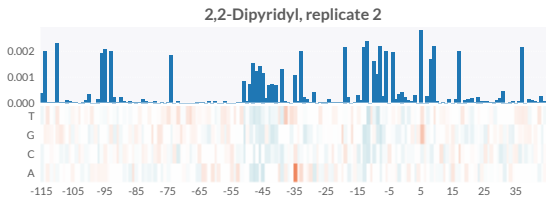
acrZp

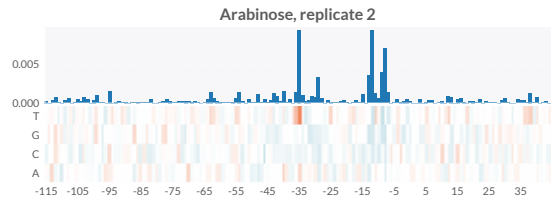

Medium Cold shock 19C, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

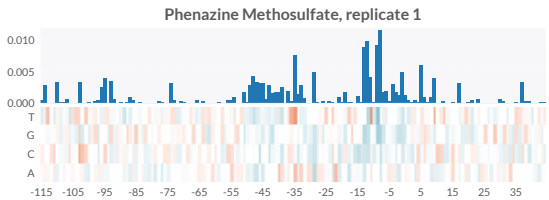

Gentamicin, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

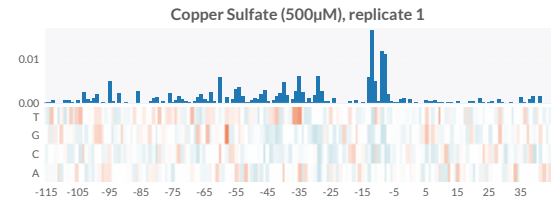

2,2-Dipyridyl, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

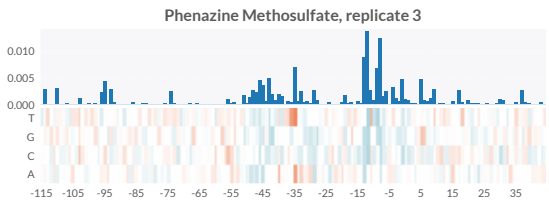

Arabinose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

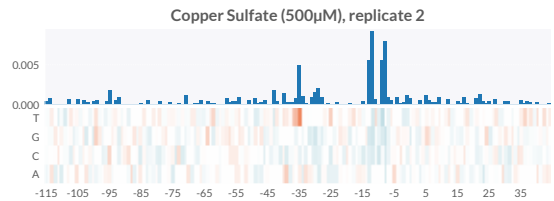

2,2-Dipyridyl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

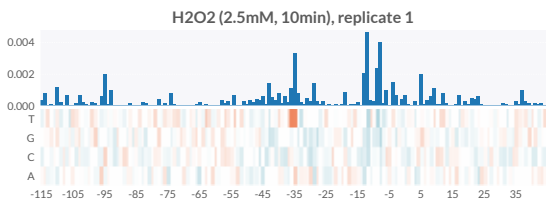

Arabinose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

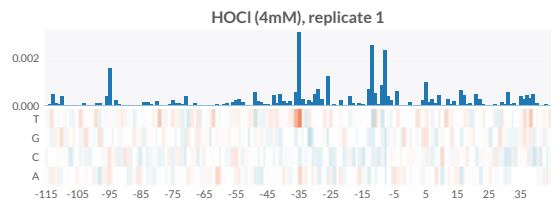

Phenazine Methosulfate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

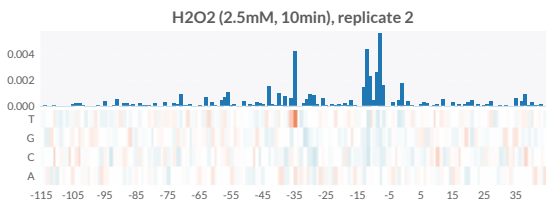

Copper Sulfate (500µM), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

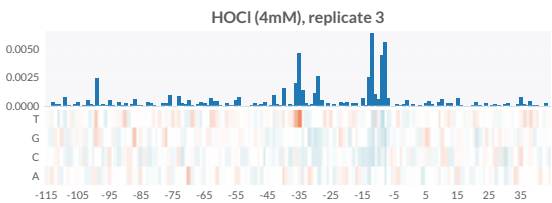

Phenazine Methosulfate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

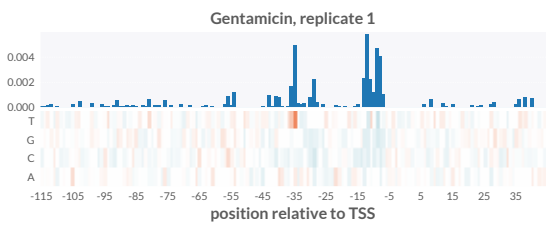

Copper Sulfate (500µM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

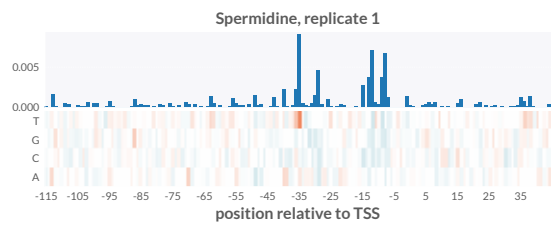

H2O2 (2.5mM, 10min), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


H2O2 (2.5mM, 10min), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

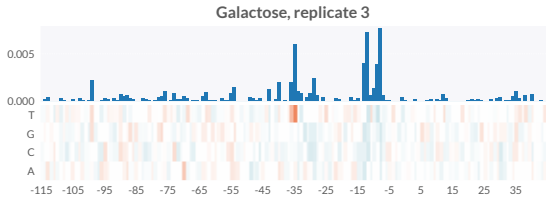

Gentamicin, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

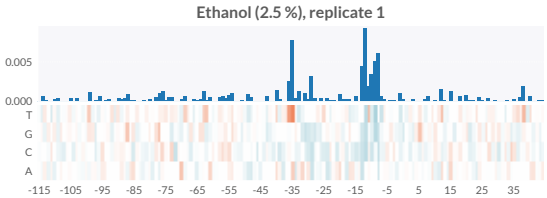

Spermidine, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

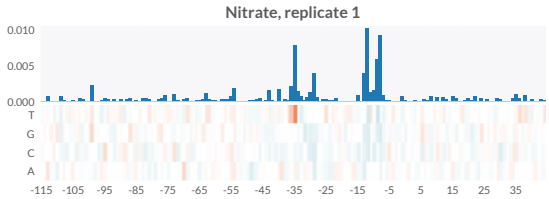
acrZp

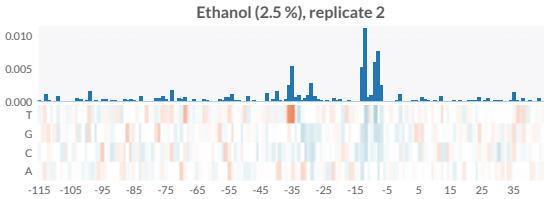

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

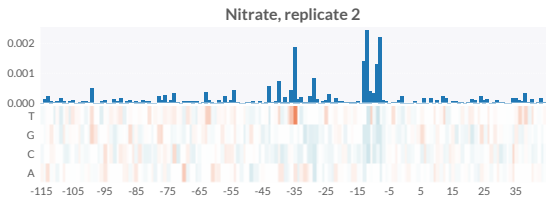
acrZp

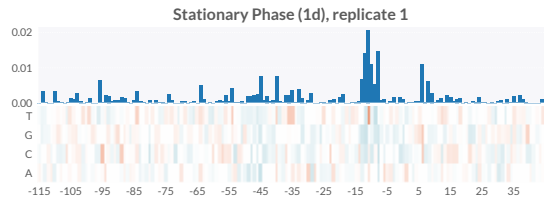

Galactose, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

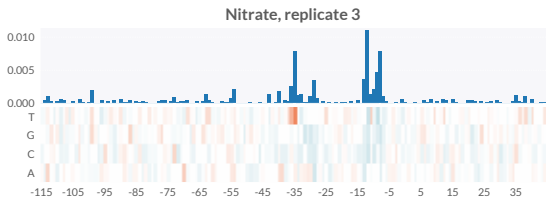

Ethanol (2.5 %), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

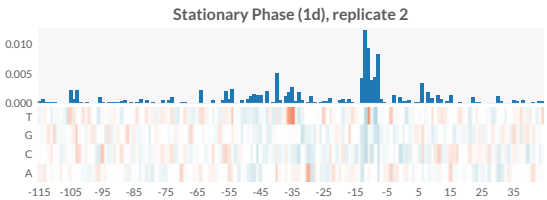

Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

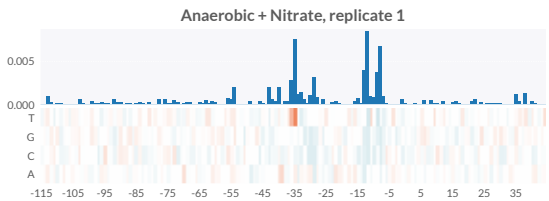

Ethanol (2.5 %), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

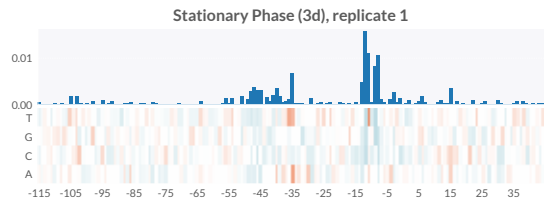

Nitrate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

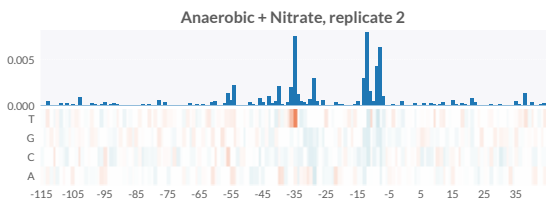

Stationary Phase (1d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

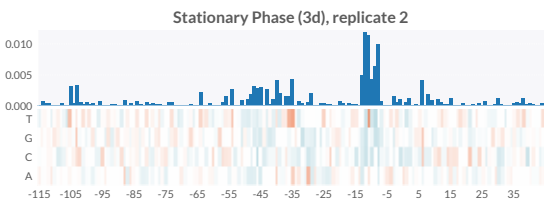

Nitrate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

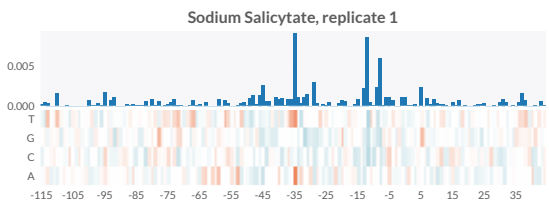

Stationary Phase (1d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

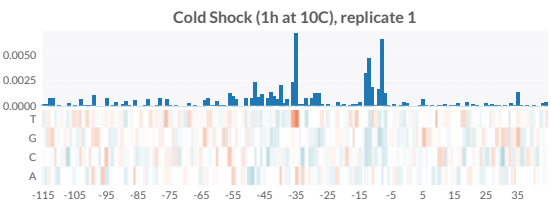

Anaerobic + Nitrate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

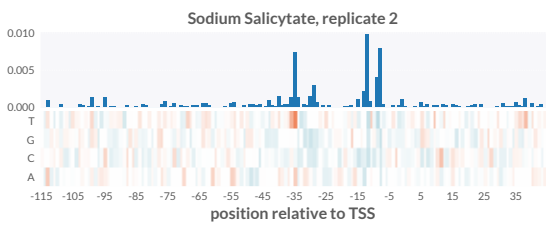

Stationary Phase (3d), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

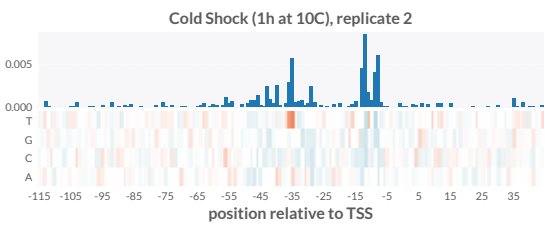

Anaerobic + Nitrate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Sodium Salicytate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

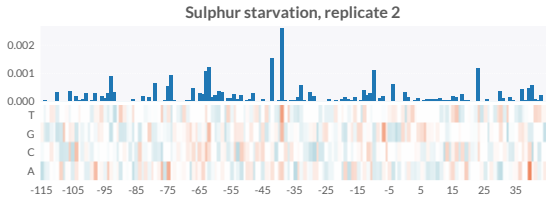

Sodium Salicytate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

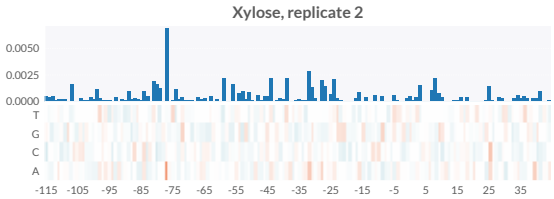

Cold Shock (1h at 10C), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

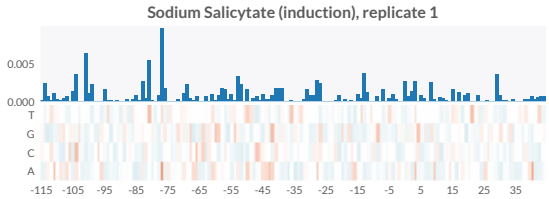
araBp

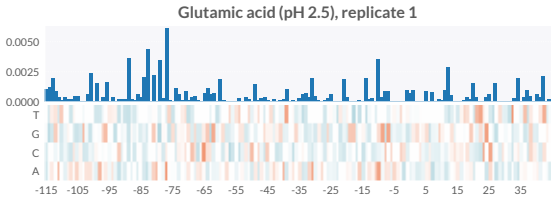

Glucose, replicate 1
Glucose, replicate 2
Ampicillin, replicate 1
Ampicillin, replicate 2
Heatshock, replicate 1
Heatshock, replicate 2
H2O2 (0.1mM 30min), replicate 1
H2O2 (0.1mM 30min), replicate 2
LB, replicate 1
LB, replicate 2
LB, replicate 3
Nirtogen starvation, replicate 1
Nirtogen starvation, replicate 2
Magnesium starvation, replicate 2
Magnesium starvation, replicate 3
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

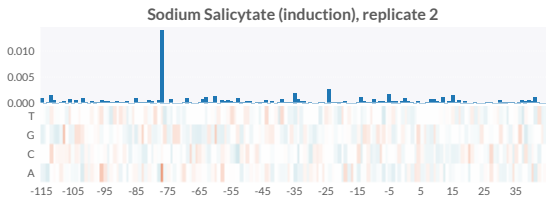
araBp

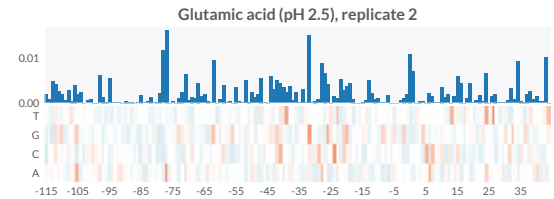

Sulphur starvation, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

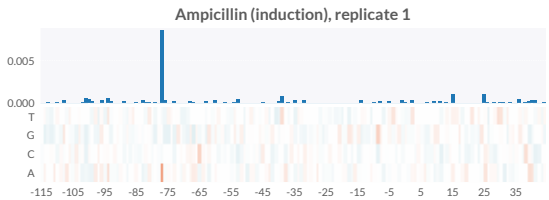

Xylose, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

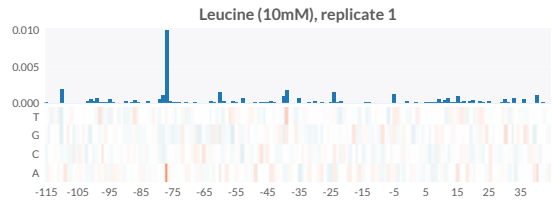

Sodium Salicytate (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

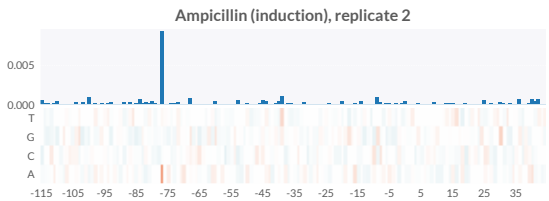

Glutamic acid (pH 2.5), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

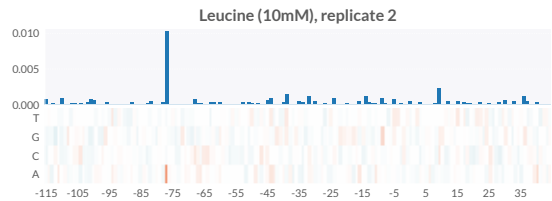

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

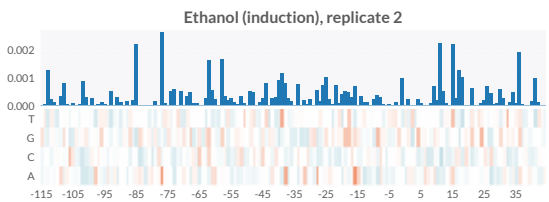

Glutamic acid (pH 2.5), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

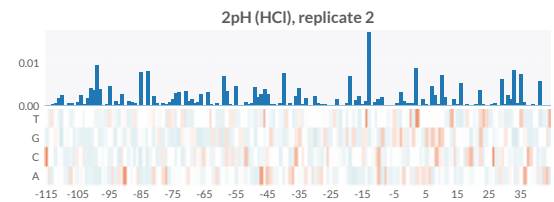

Ampicillin (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

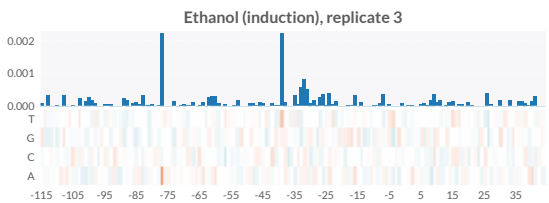

Leucine (10mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

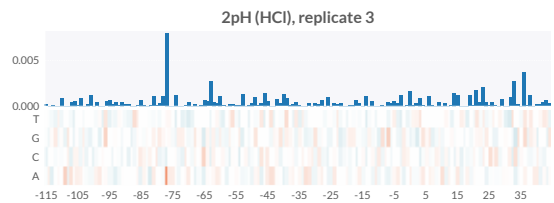

Ampicillin (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

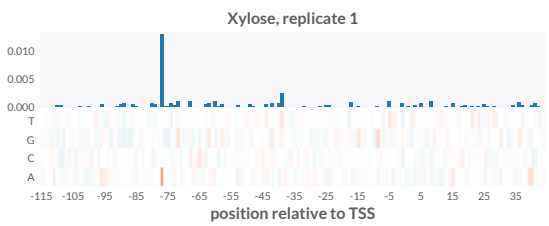

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

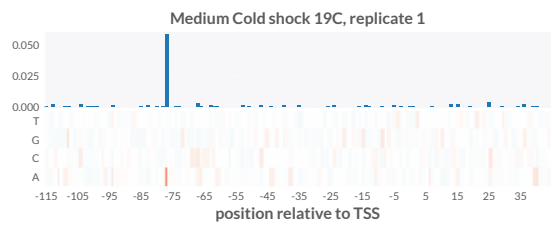

Ethanol (induction), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

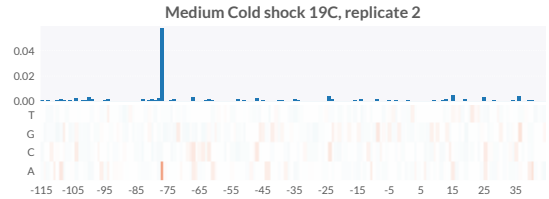

Ethanol (induction), replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

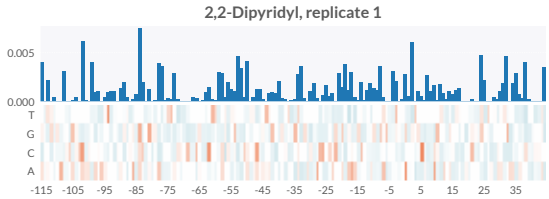

2pH (HCl), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

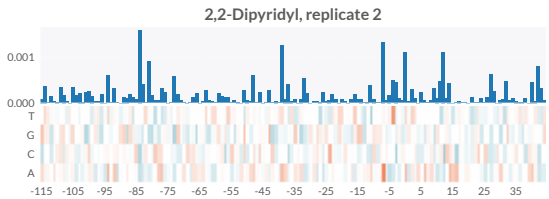

Xylose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

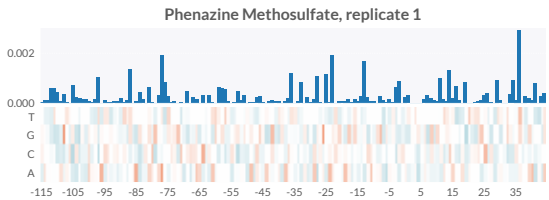

Medium Cold shock 19C, replicate 1
0.050
0.025
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

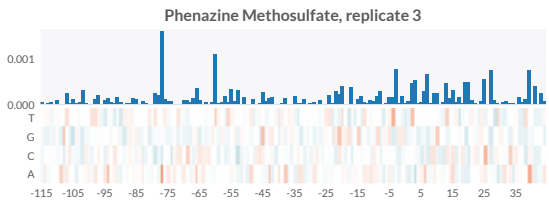
araBp

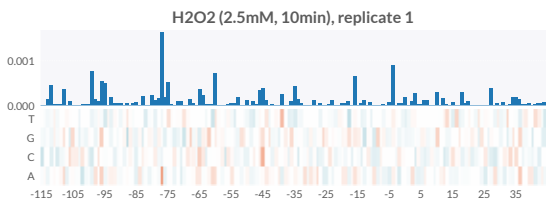

Medium Cold shock 19C, replicate 2
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

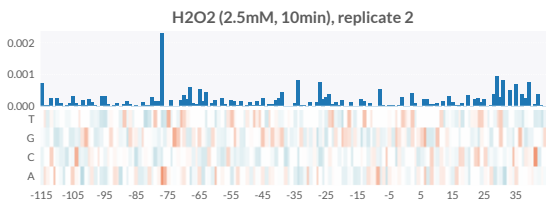

2,2-Dipyridyl, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

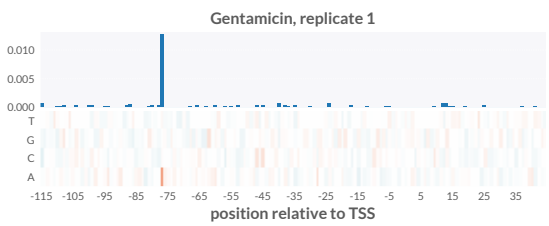

2,2-Dipyridyl, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

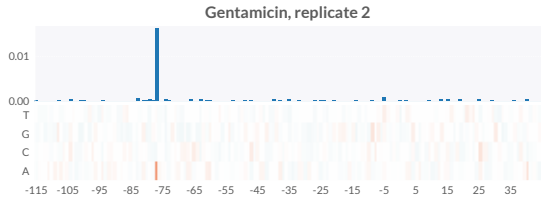

Phenazine Methosulfate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

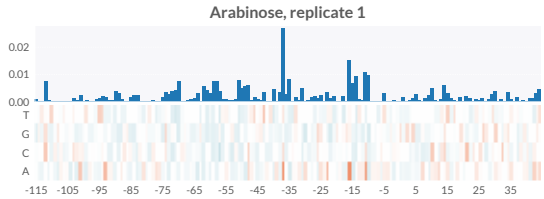

Phenazine Methosulfate, replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

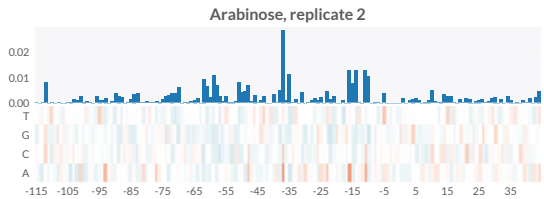

H2O2 (2.5mM, 10min), replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

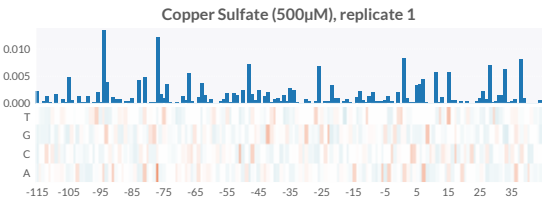

H2O2 (2.5mM, 10min), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

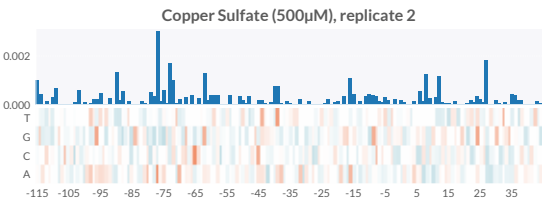

Gentamicin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

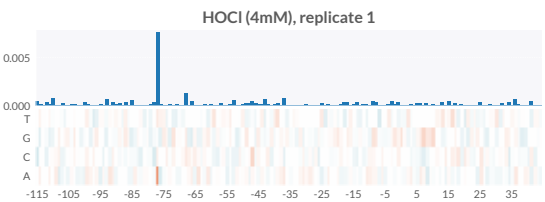

Gentamicin, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

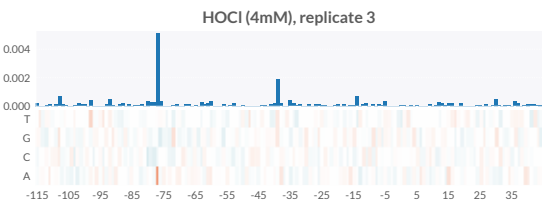

Arabinose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

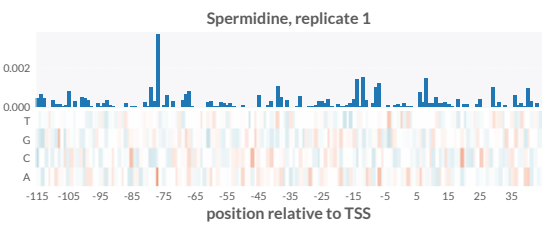

Arabinose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Copper Sulfate (500µM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Copper Sulfate (500µM), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

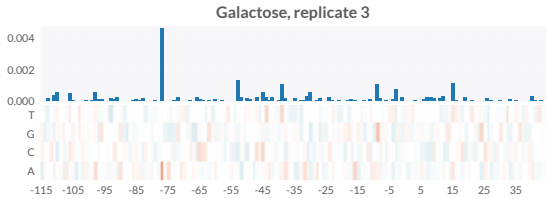

HOCl (4mM), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

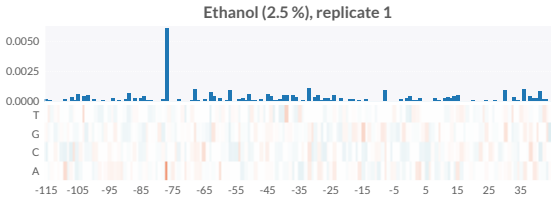

Spermidine, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

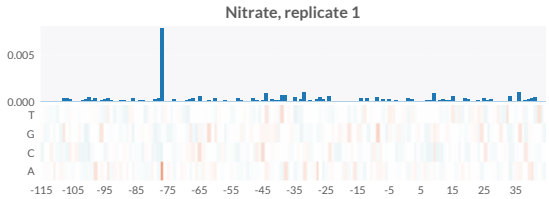
araBp

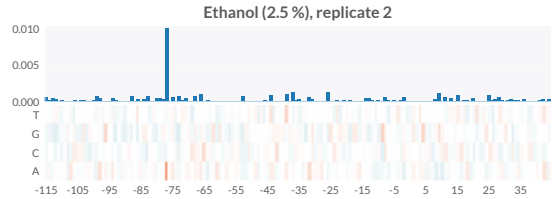

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

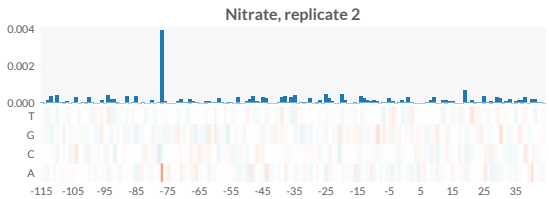
araBp

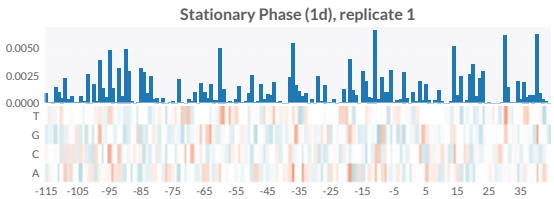

Galactose, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

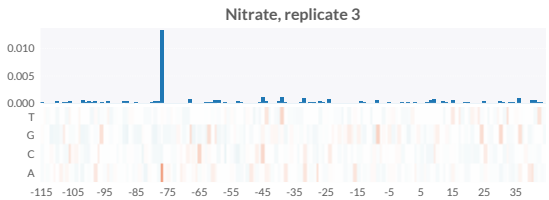

Ethanol (2.5 %), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

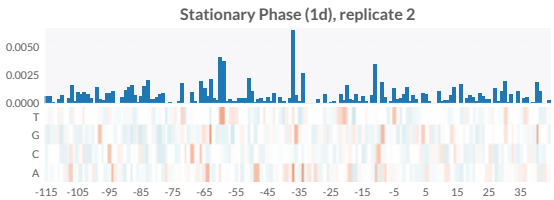

Nitrate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

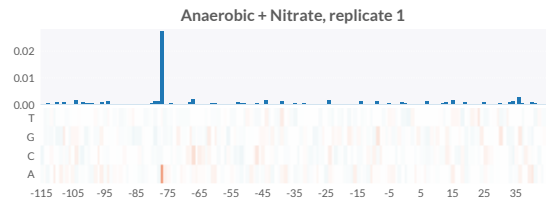

Ethanol (2.5 %), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

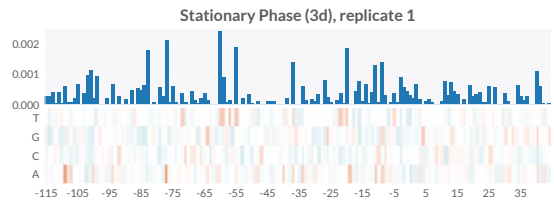

Nitrate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

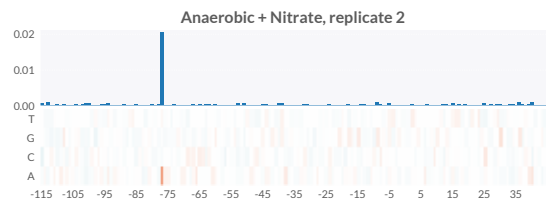

Stationary Phase (1d), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

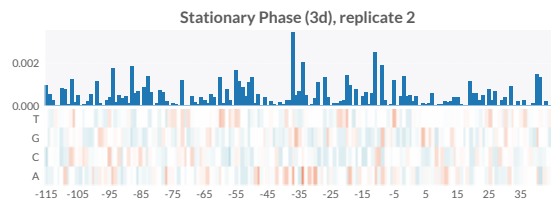

Nitrate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

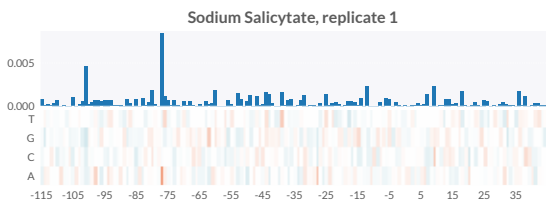

Stationary Phase (1d), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

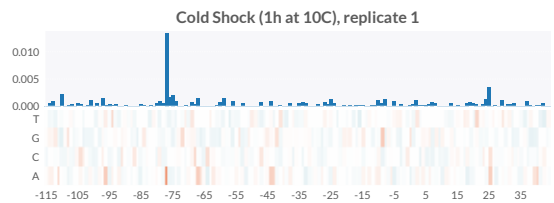

Anaerobic + Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

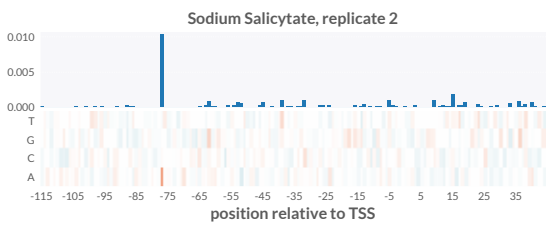

Stationary Phase (3d), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

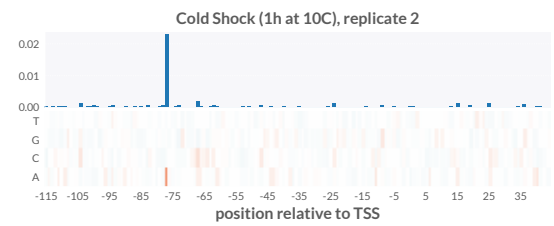

Anaerobic + Nitrate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Sodium Salicytate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Sodium Salicytate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

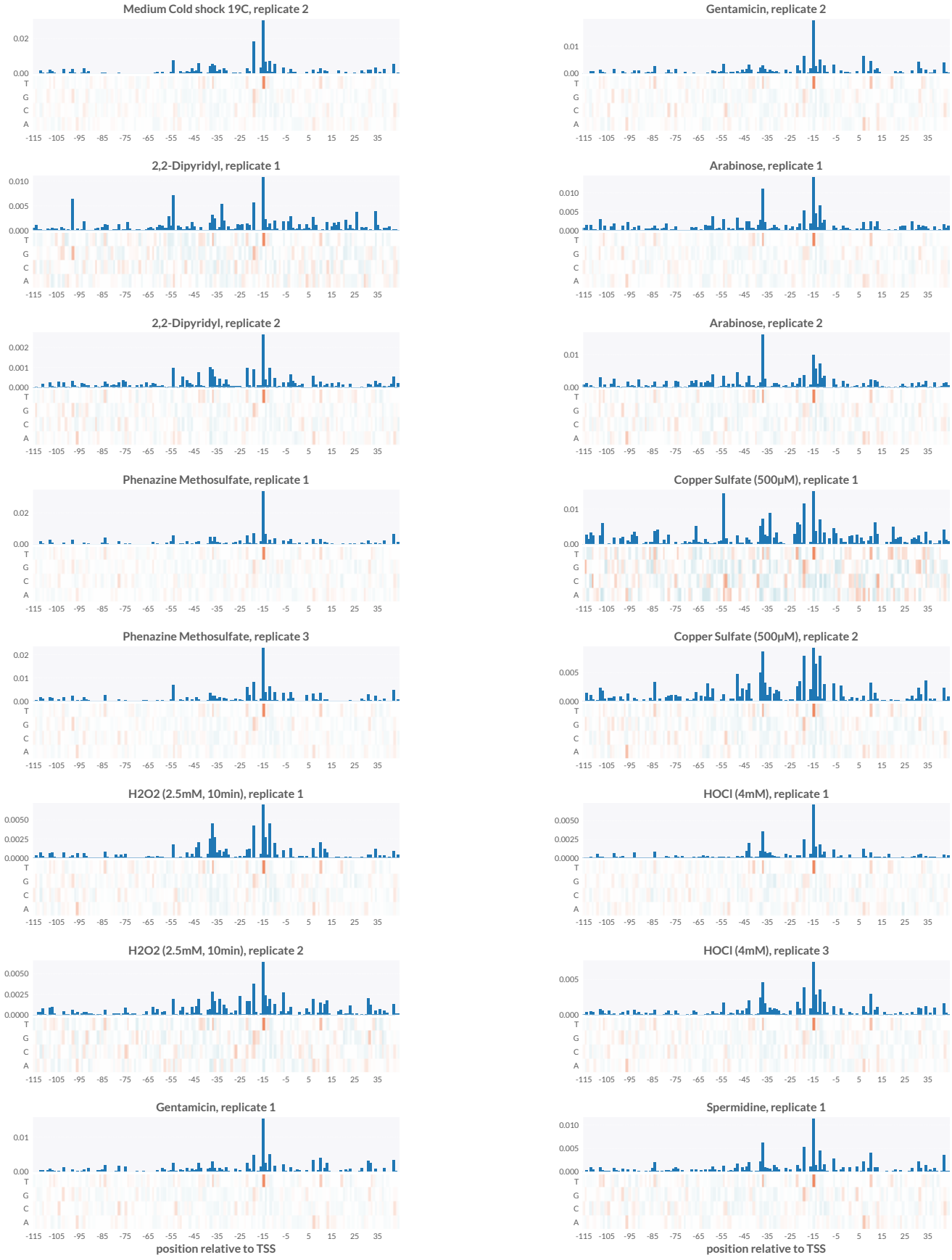
araCp


Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

araCp


Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

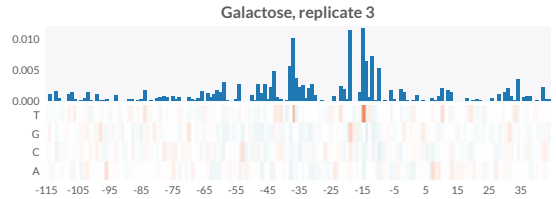
araCp

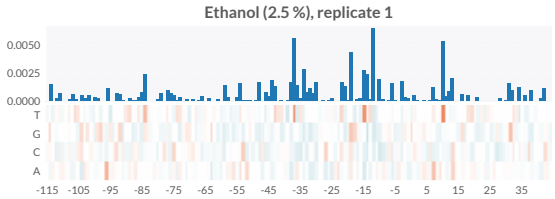

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

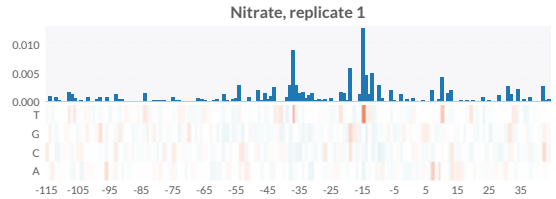
araCp

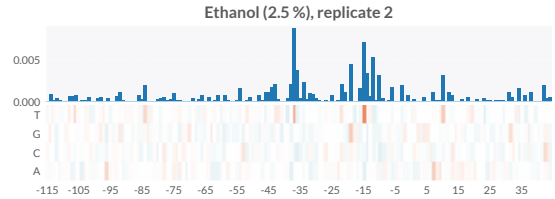

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

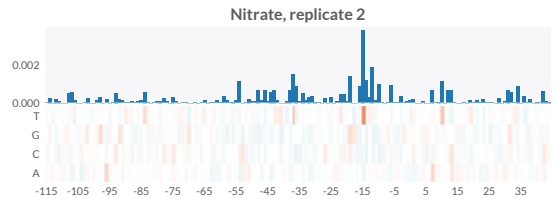
araCp

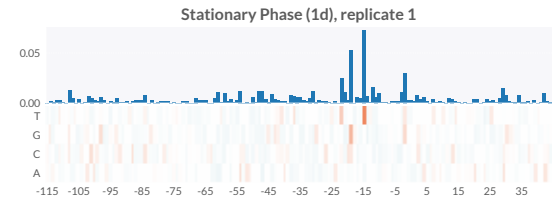

Galactose, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

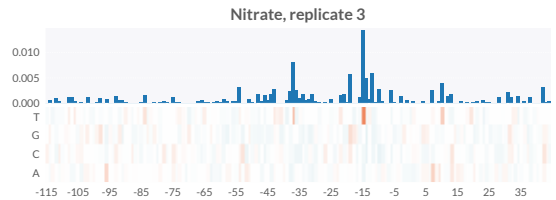

Ethanol (2.5 %), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

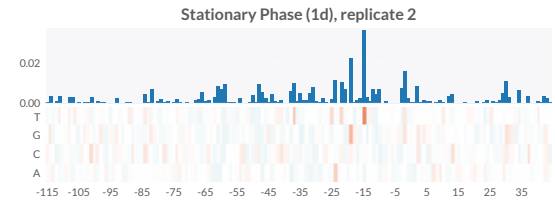

Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

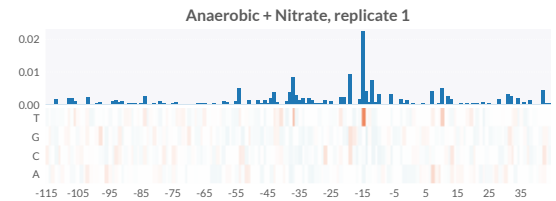

Ethanol (2.5 %), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

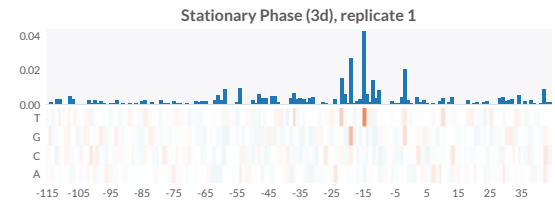

Nitrate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

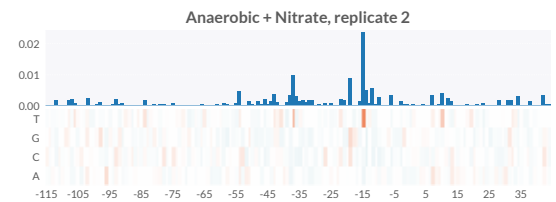

Stationary Phase (1d), replicate 1
0.05
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

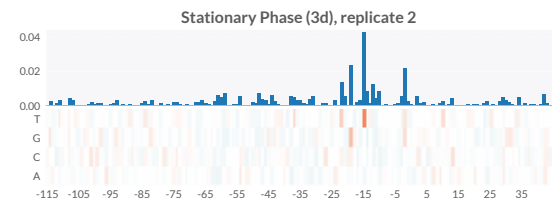

Nitrate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

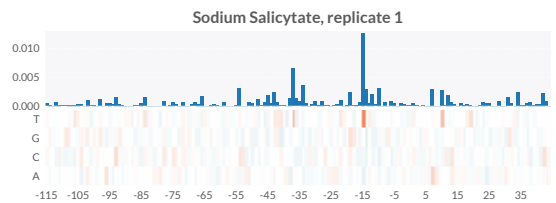

Stationary Phase (1d), replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

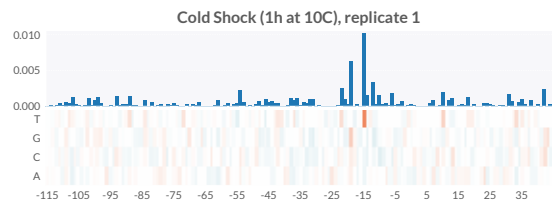

Anaerobic + Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

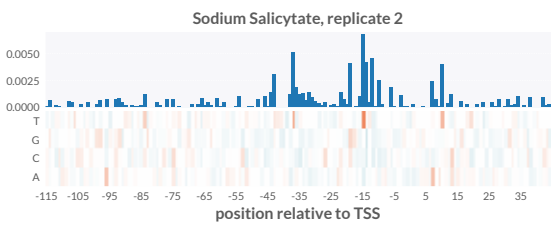

Stationary Phase (3d), replicate 1
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

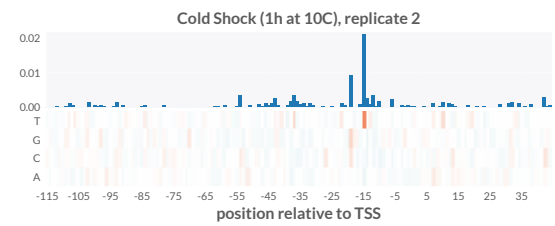

Anaerobic + Nitrate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

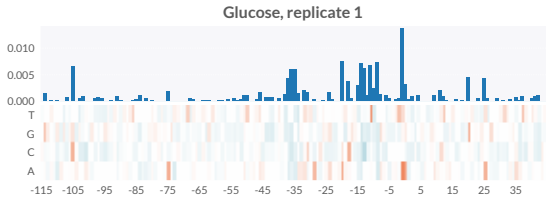

Sodium Salicytate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

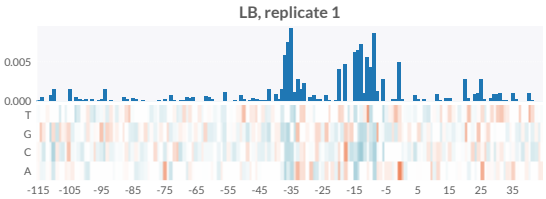

Cold Shock (1h at 10C), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

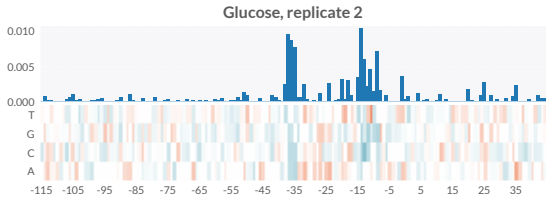

Sodium Salicytate, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

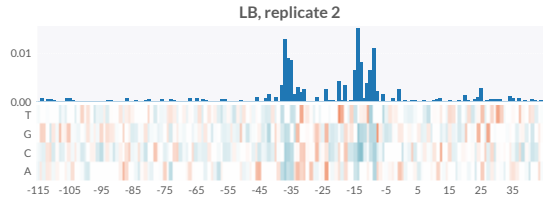

Cold Shock (1h at 10C), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

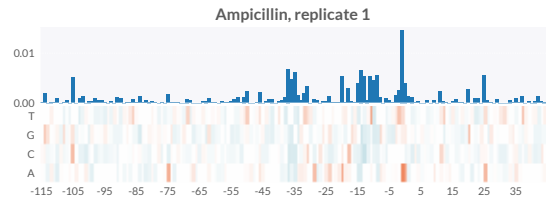
blrp

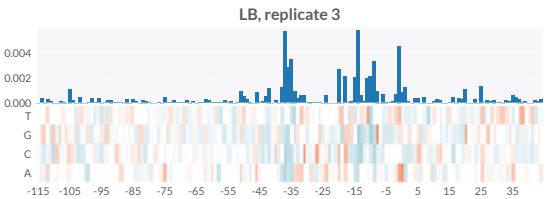

Glucose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

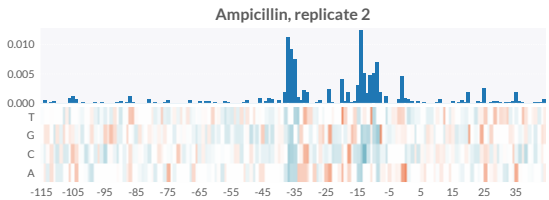

LB, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

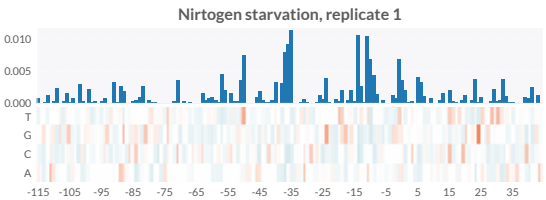

Glucose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

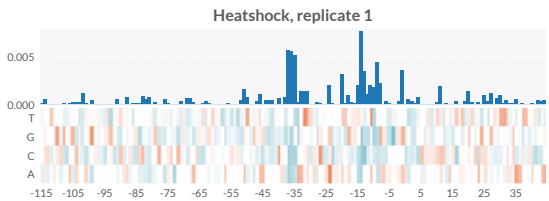

LB, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

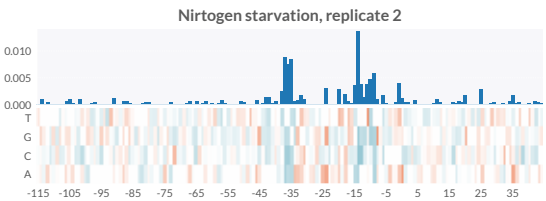

Ampicillin, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

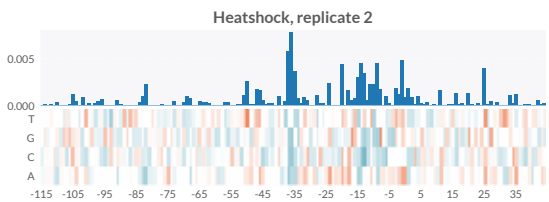

LB, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

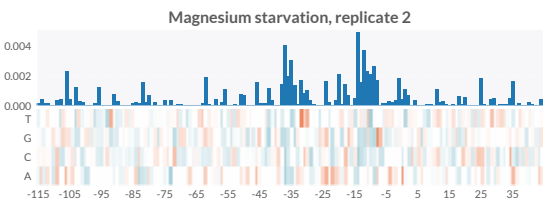

Ampicillin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

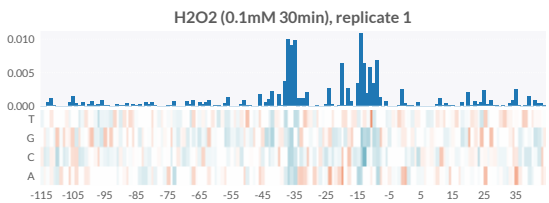

Nirtogen starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

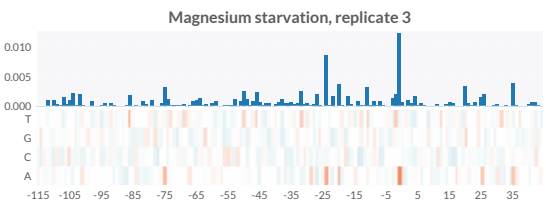

Heatshock, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

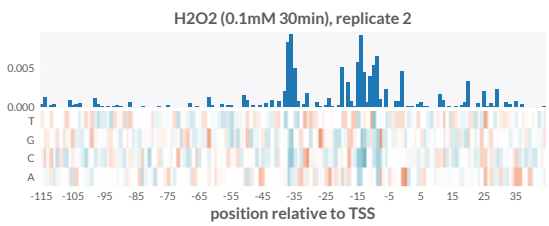

Nirtogen starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

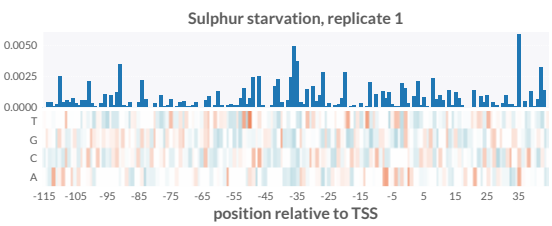

Heatshock, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

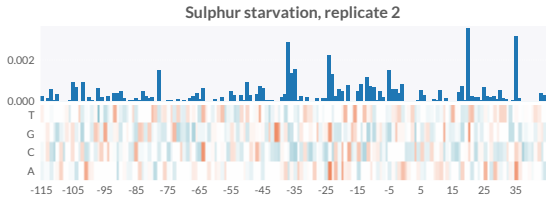

H2O2 (0.1mM 30min), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

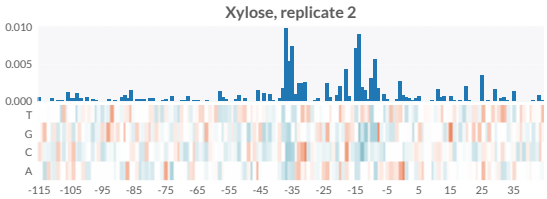

Magnesium starvation, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

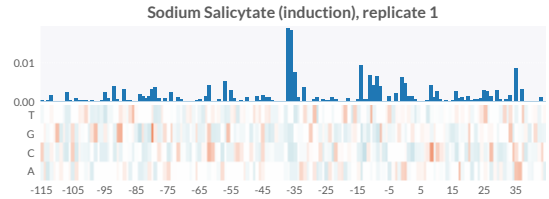

H2O2 (0.1mM 30min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

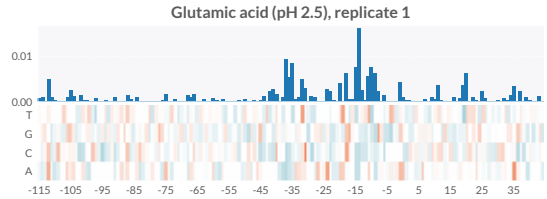

Sulphur starvation, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

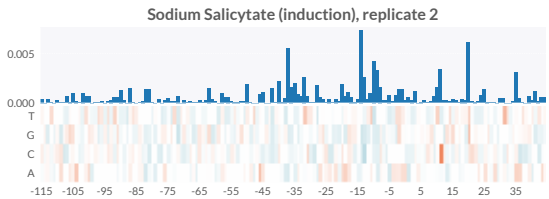
blrp

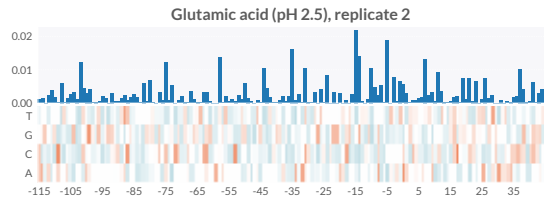

Sulphur starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

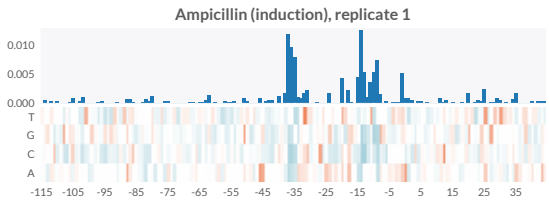

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

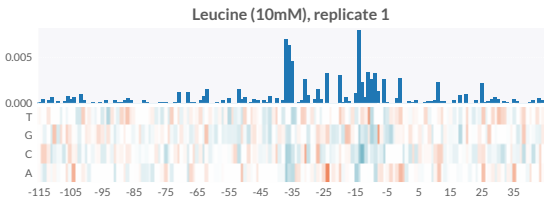

Sodium Salicytate (induction), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

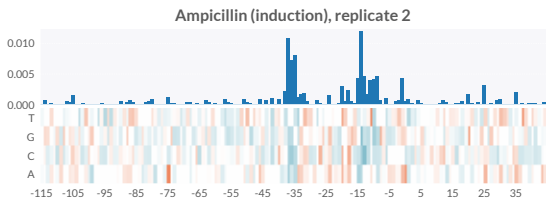

Glutamic acid (pH 2.5), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

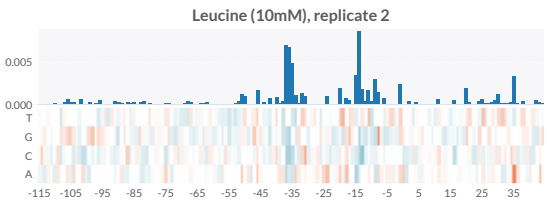

Sodium Salicytate (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

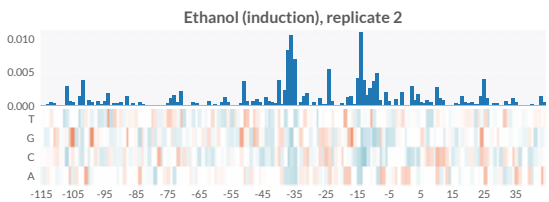

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

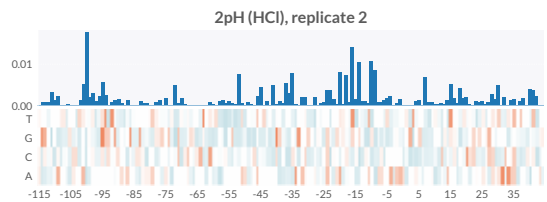

Ampicillin (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

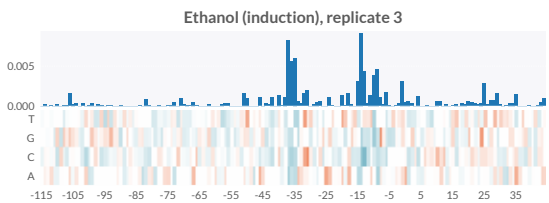

Leucine (10mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

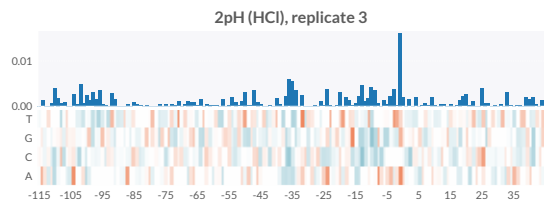

Ampicillin (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

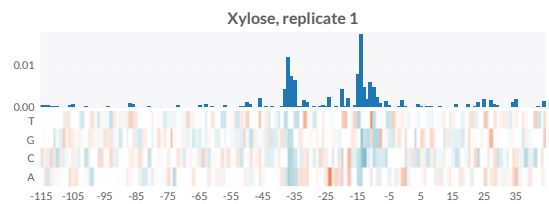

Leucine (10mM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

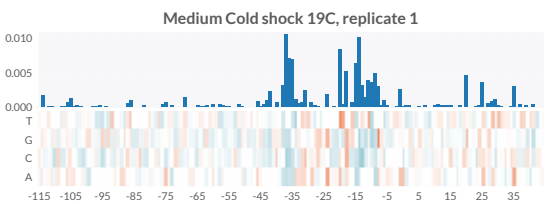

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

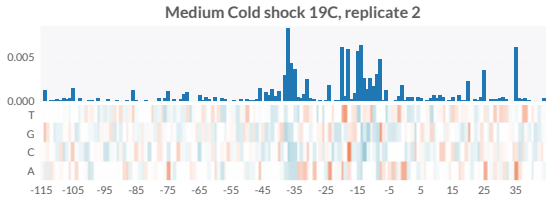

Ethanol (induction), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

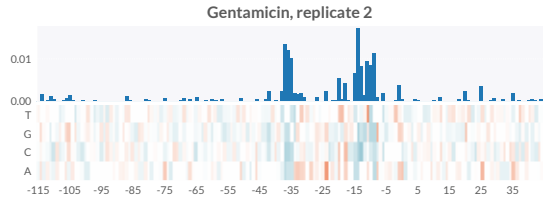

2pH (HCl), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

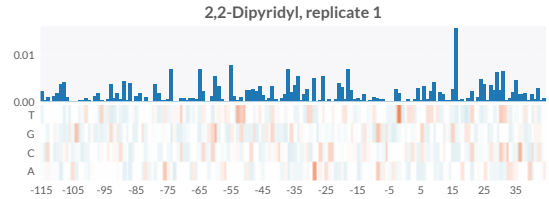

Xylose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

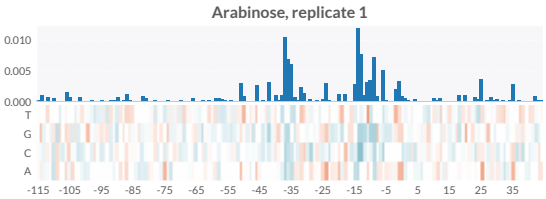

Medium Cold shock 19C, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

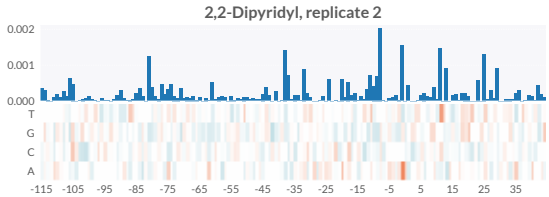
blrp

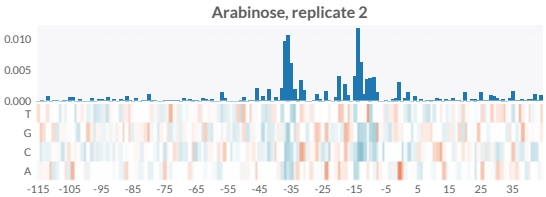

Medium Cold shock 19C, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

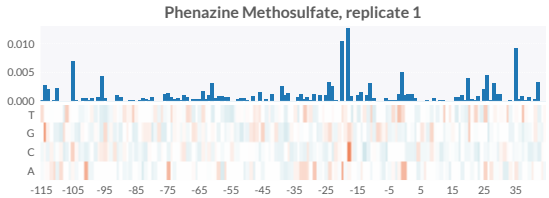

Gentamicin, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

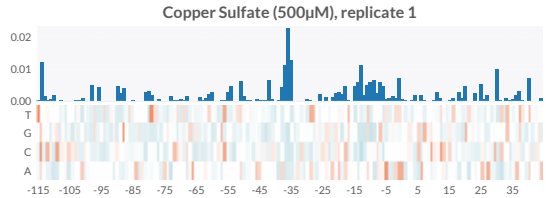

2,2-Dipyridyl, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

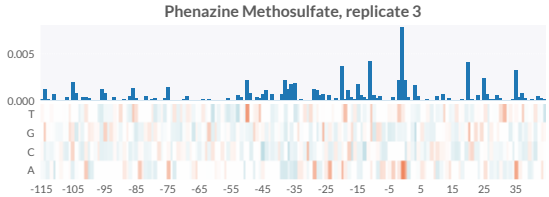

Arabinose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

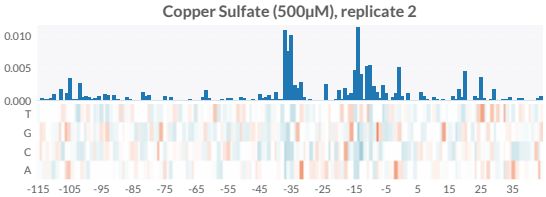

2,2-Dipyridyl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

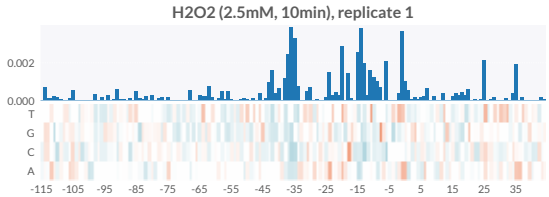

Arabinose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

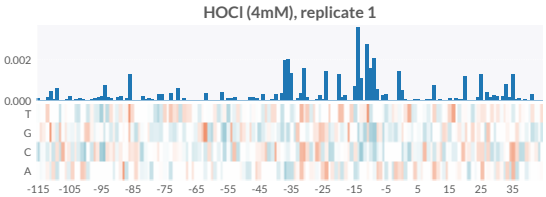

Phenazine Methosulfate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

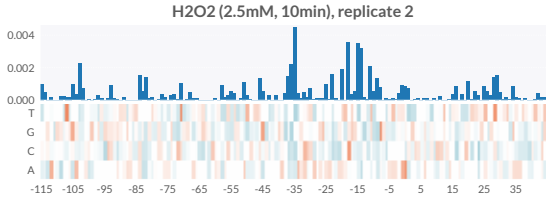

Copper Sulfate (500µM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

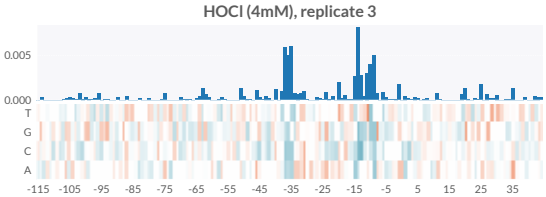

Phenazine Methosulfate, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

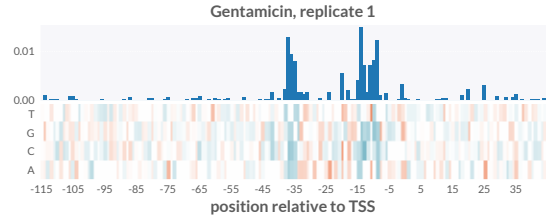

Copper Sulfate (500µM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

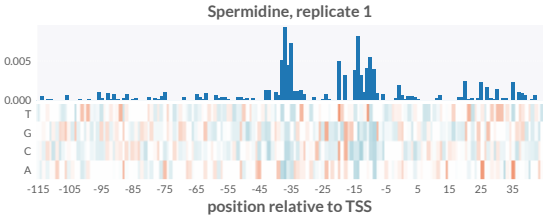

H2O2 (2.5mM, 10min), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


H2O2 (2.5mM, 10min), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

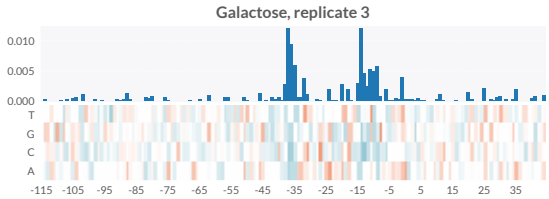

Gentamicin, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

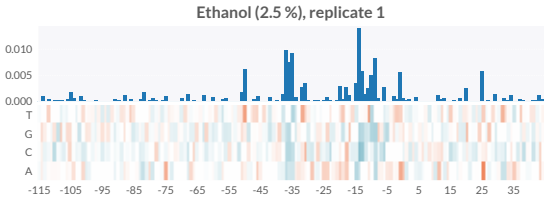

Spermidine, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

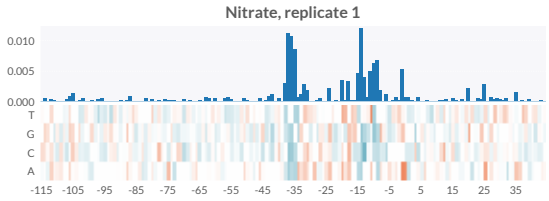
blrp

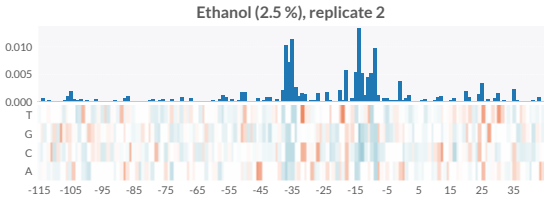

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

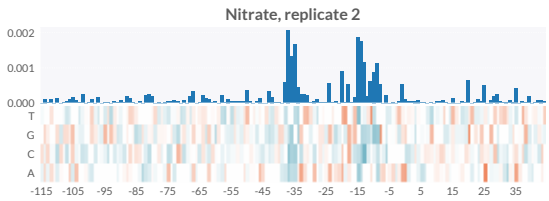
blrp

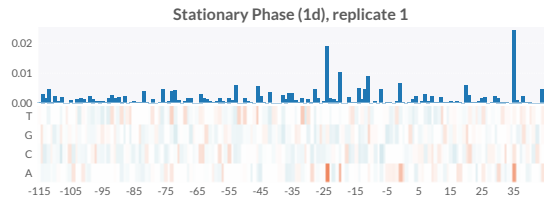

Galactose, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

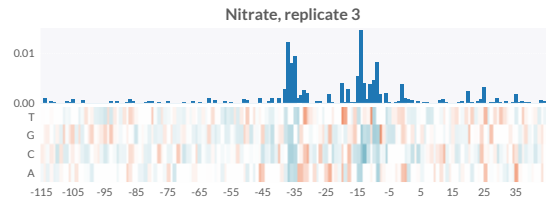

Ethanol (2.5 %), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

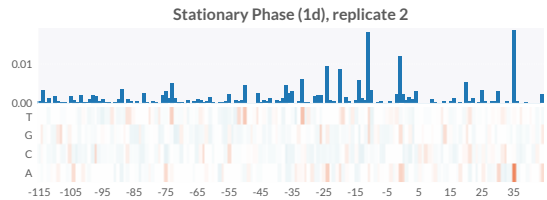

Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

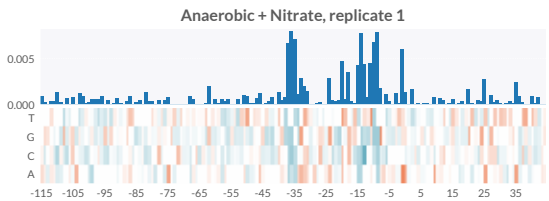

Ethanol (2.5 %), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

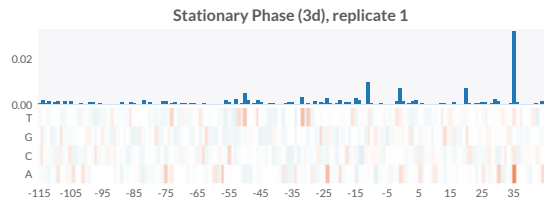

Nitrate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

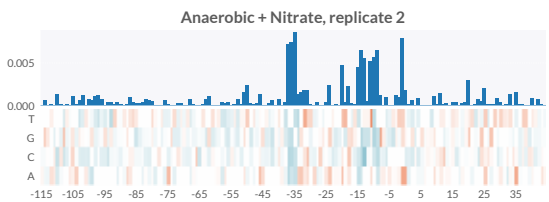

Stationary Phase (1d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

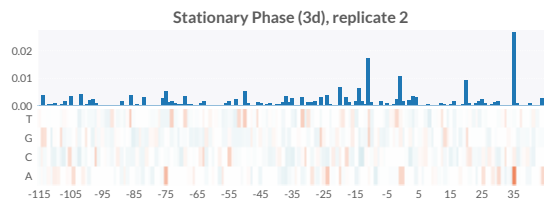

Nitrate, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

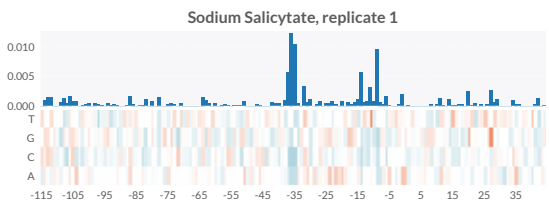

Stationary Phase (1d), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

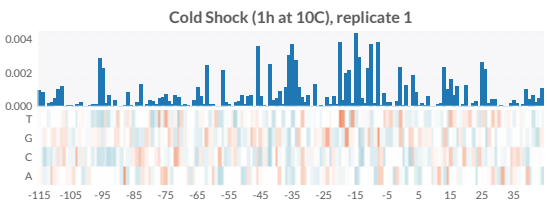

Anaerobic + Nitrate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

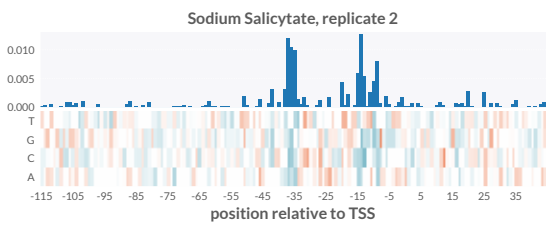

Stationary Phase (3d), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

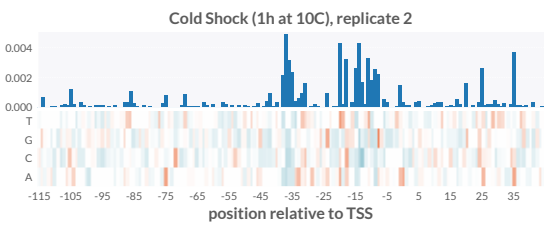

Anaerobic + Nitrate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

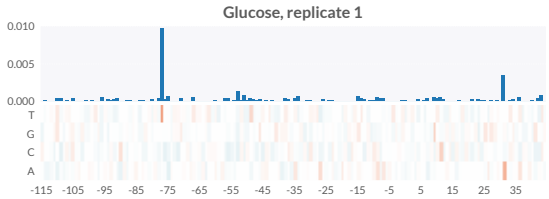

Sodium Salicytate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

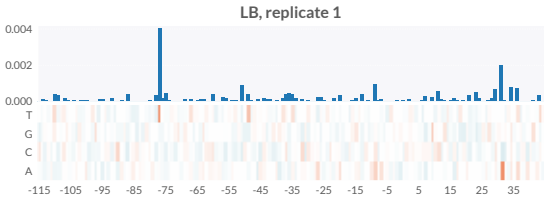

Cold Shock (1h at 10C), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

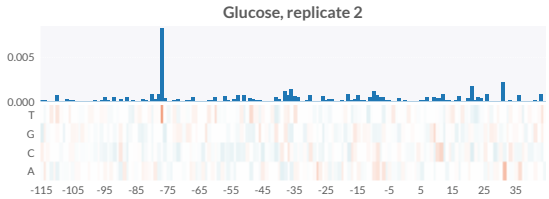

Sodium Salicytate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

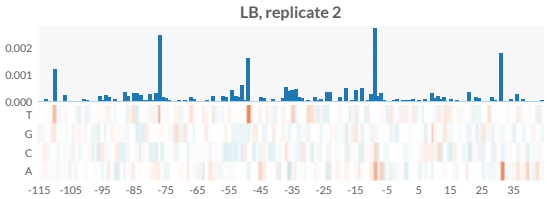

Cold Shock (1h at 10C), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

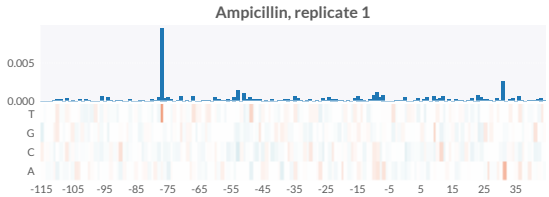
cpxRp2

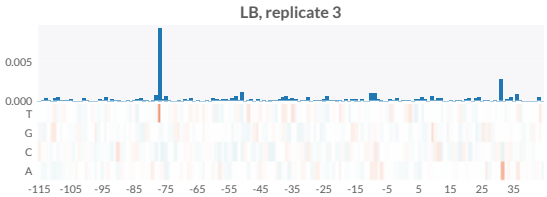

Glucose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

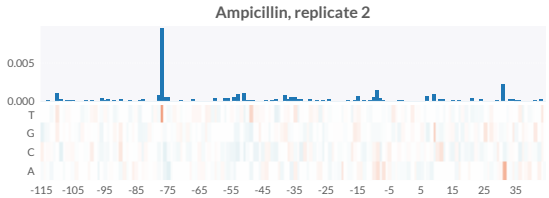

LB, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

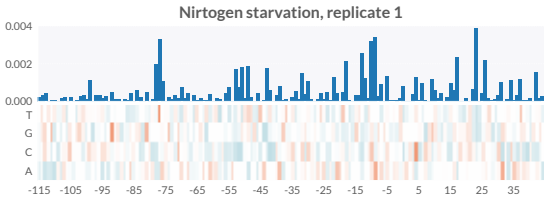

Glucose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

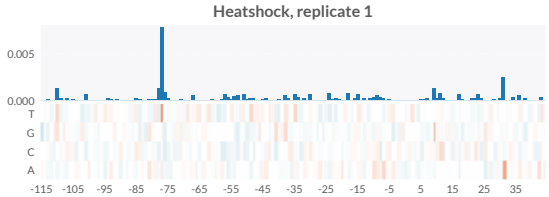

LB, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

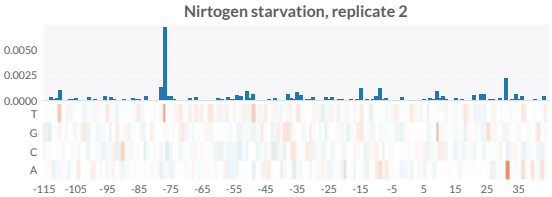

Ampicillin, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

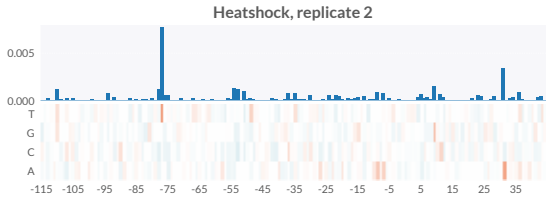

LB, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

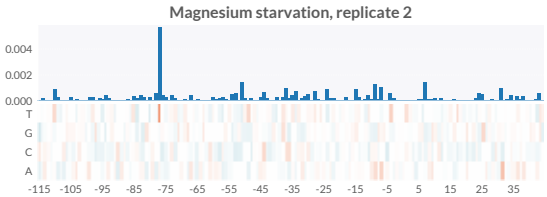

Ampicillin, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

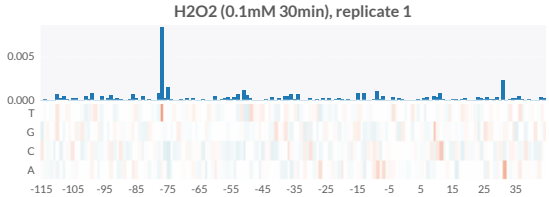

Nirtogen starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

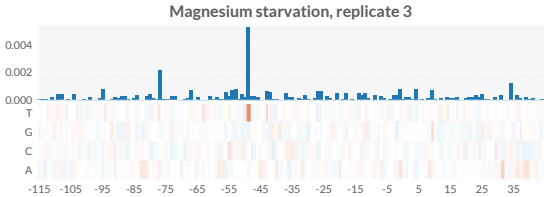

Heatshock, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

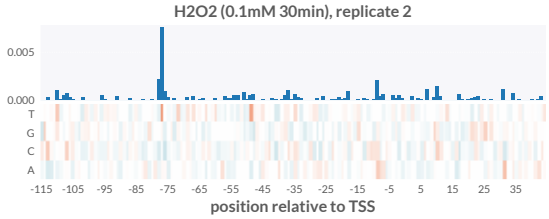

Nirtogen starvation, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

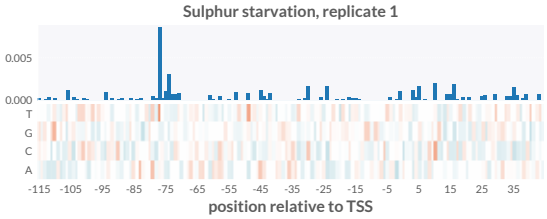

Heatshock, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

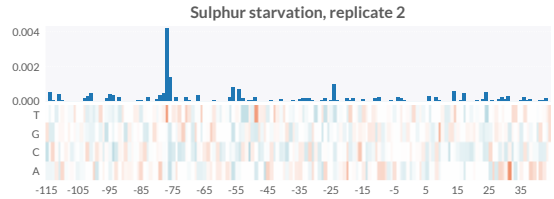

H2O2 (0.1mM 30min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

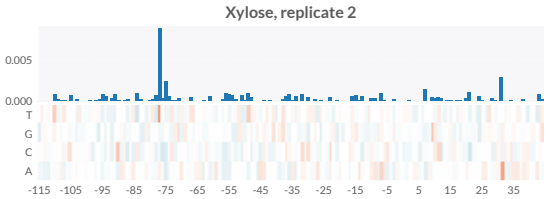

Magnesium starvation, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

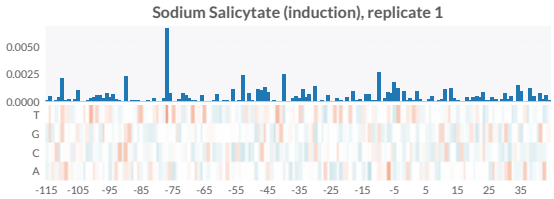

H2O2 (0.1mM 30min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

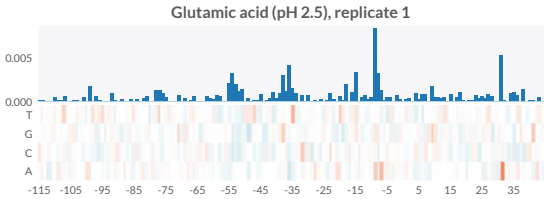

Sulphur starvation, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

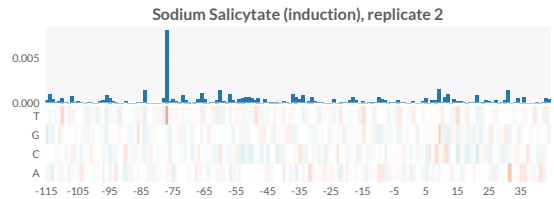
cpxRp2

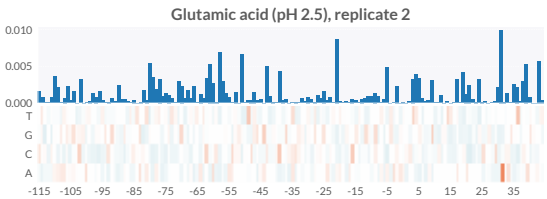

Sulphur starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

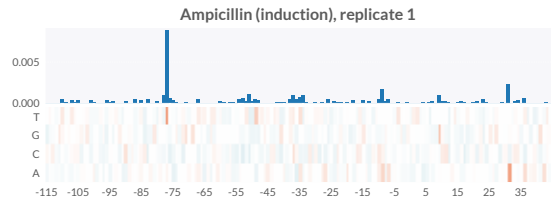

Xylose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

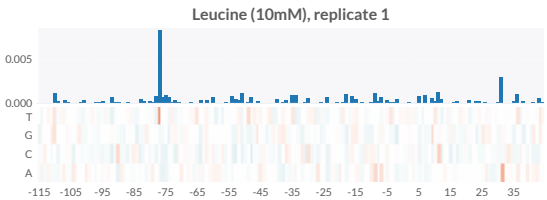

Sodium Salicytate (induction), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

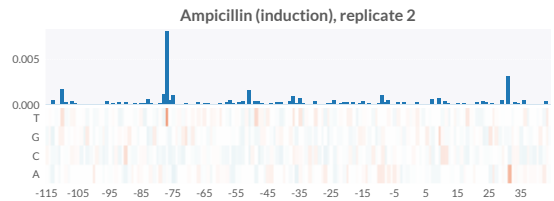

Glutamic acid (pH 2.5), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

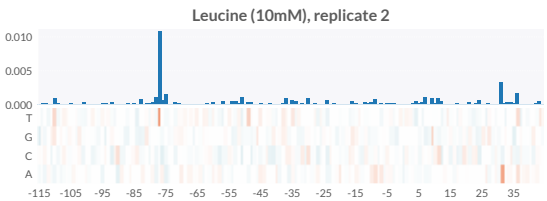

Sodium Salicytate (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

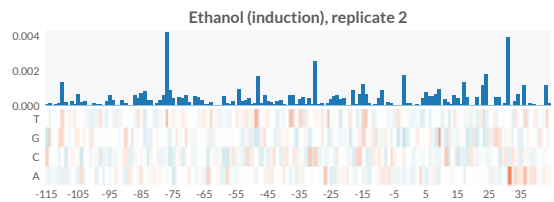

Glutamic acid (pH 2.5), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

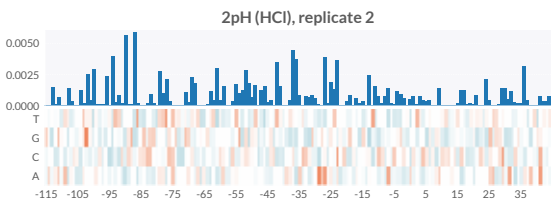

Ampicillin (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

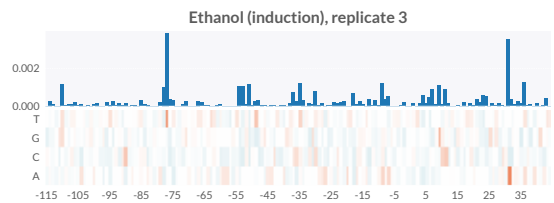

Leucine (10mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

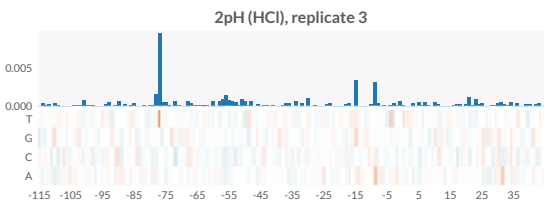

Ampicillin (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

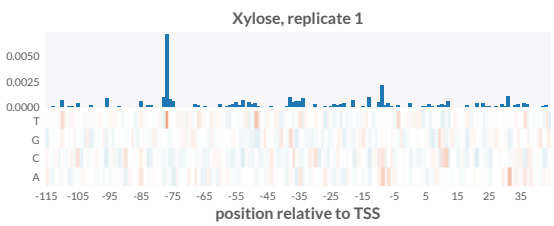

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

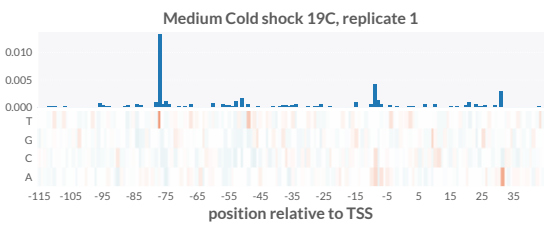

Ethanol (induction), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

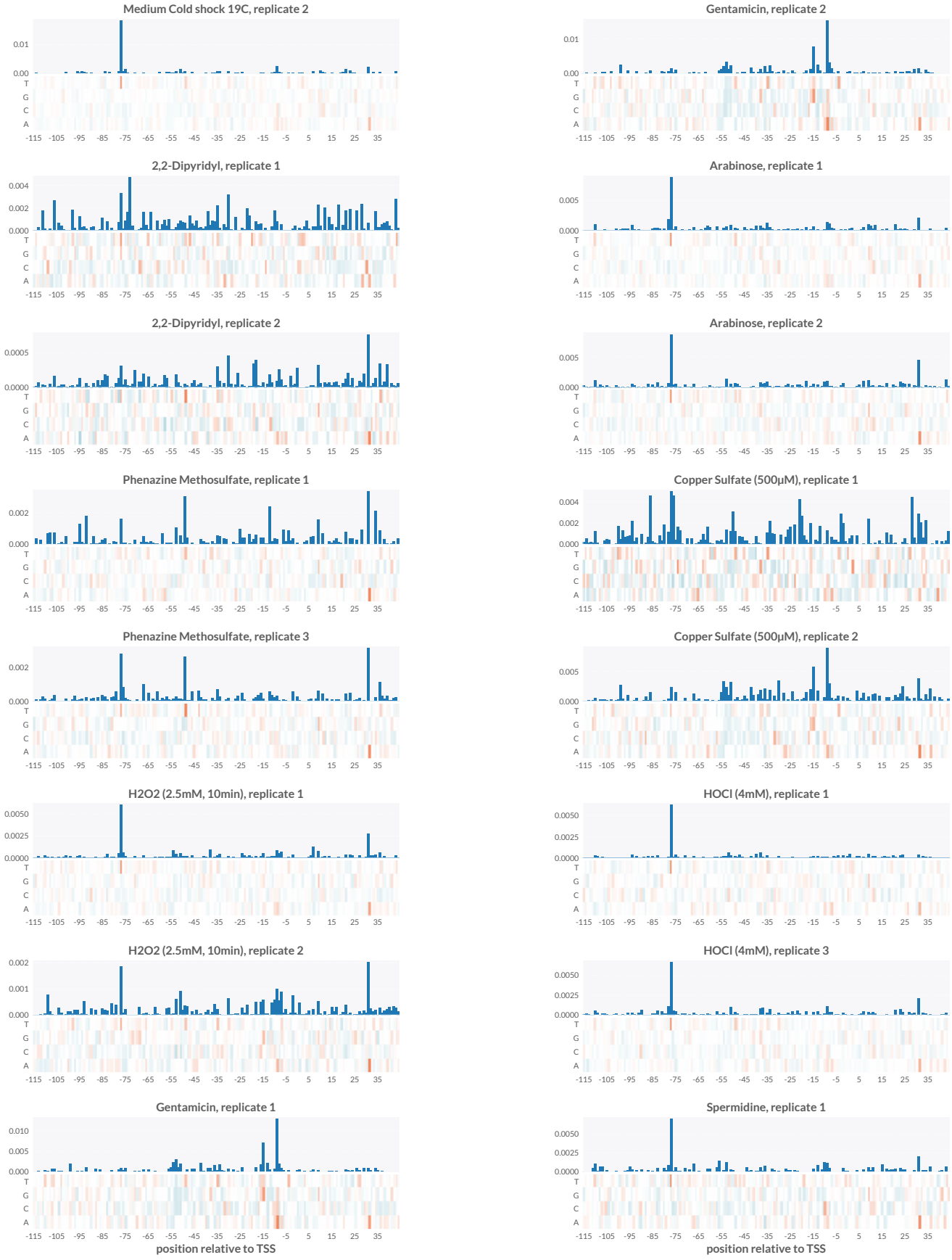

Ethanol (induction), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

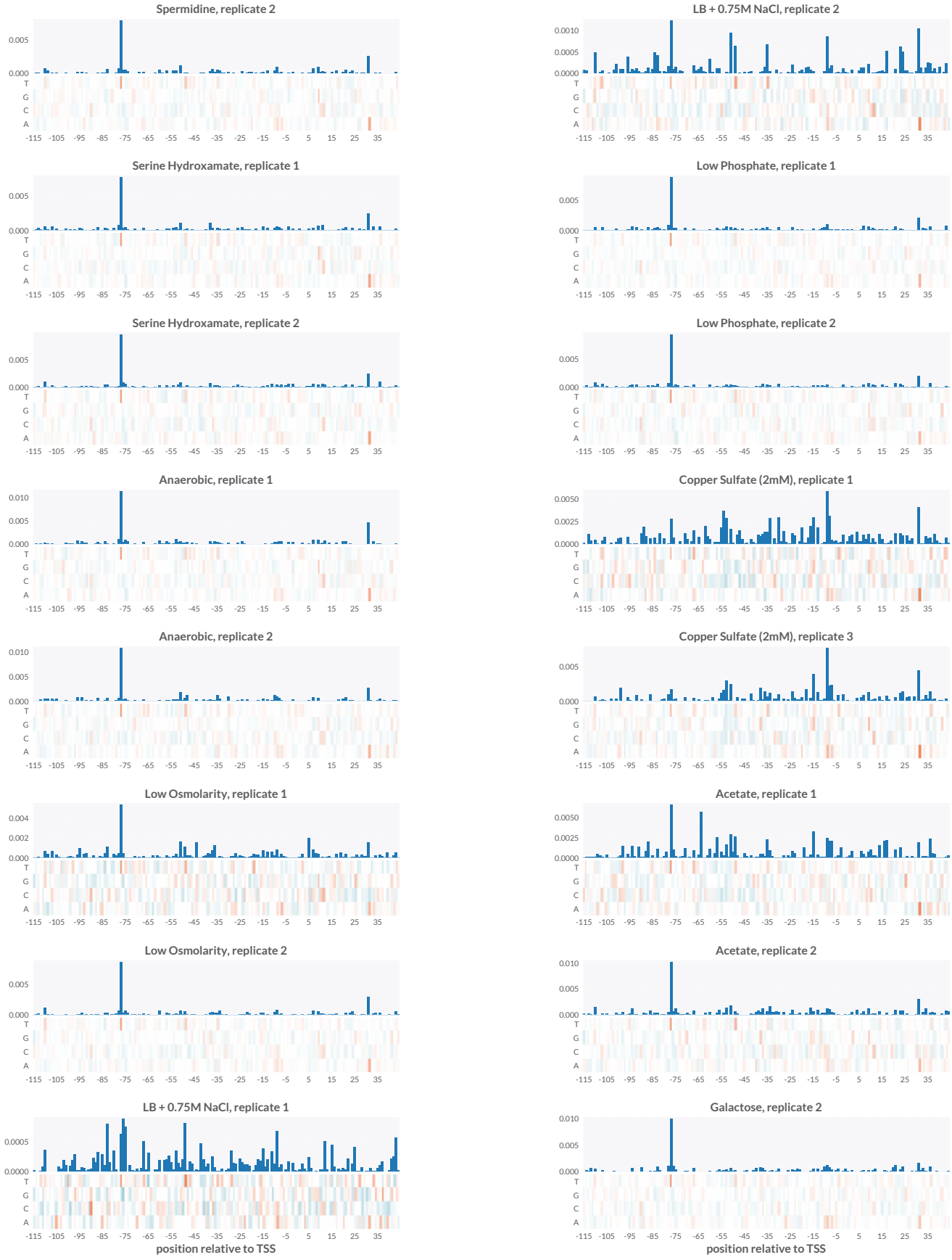

Xylose, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Medium Cold shock 19C, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

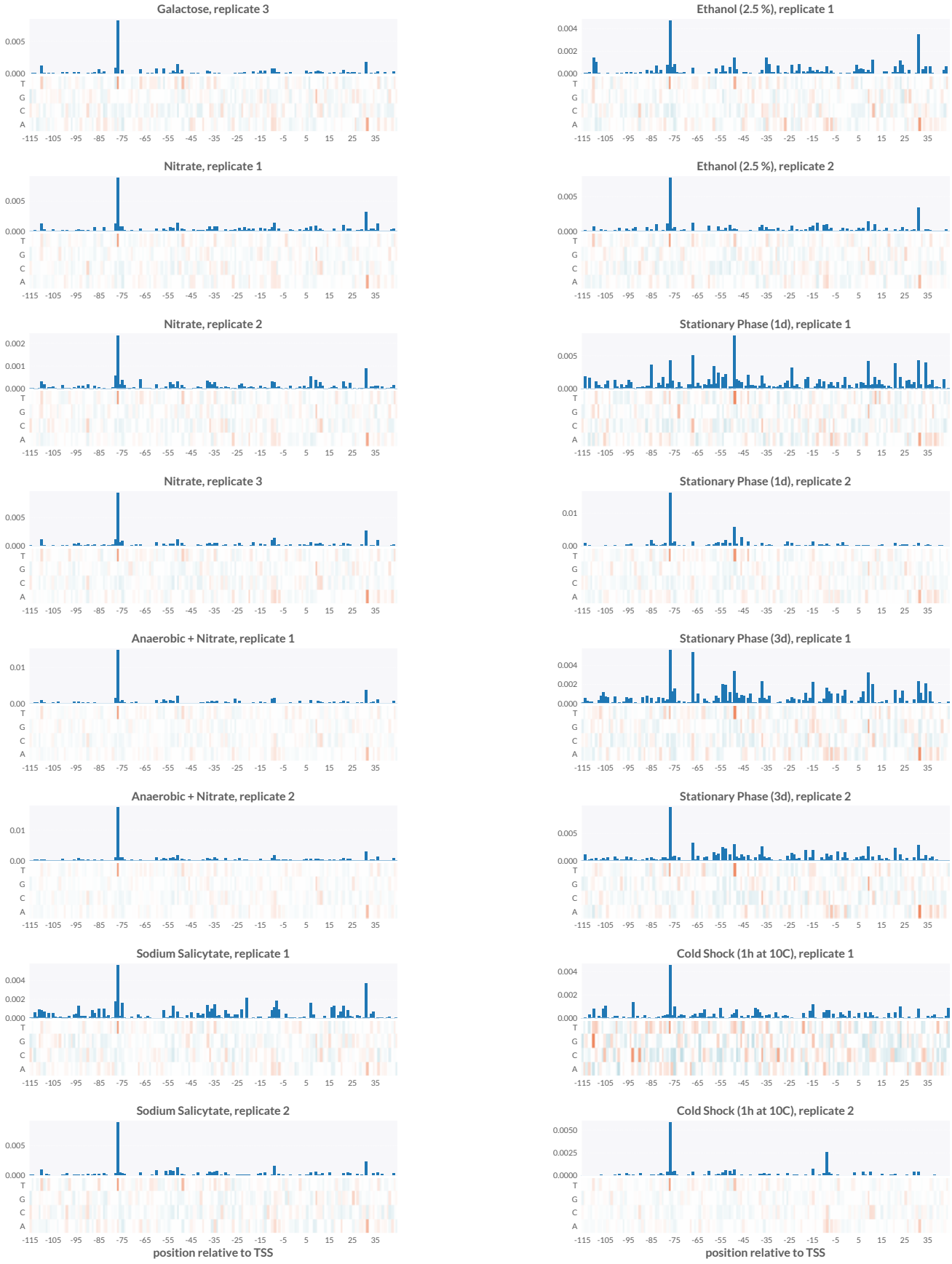
cpxRp2


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

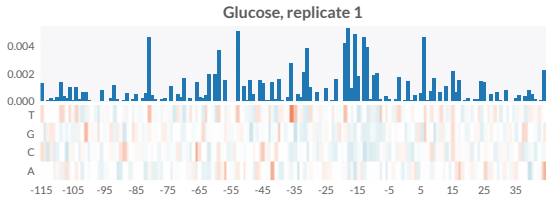
cpxRp2

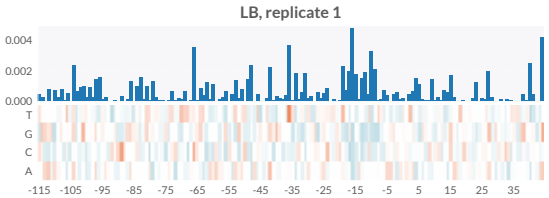

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

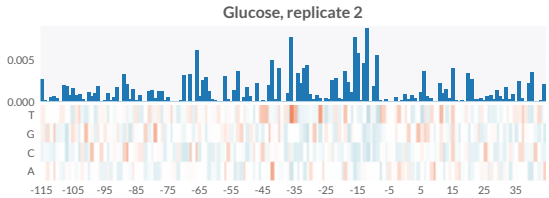
cpxRp2

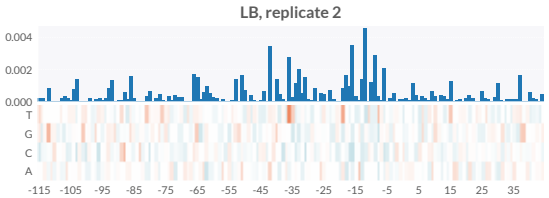

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

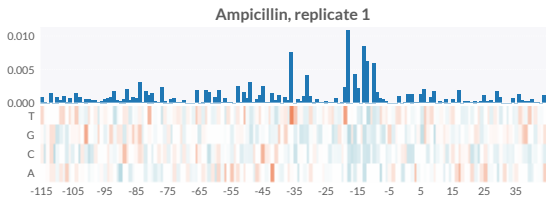
crpp1

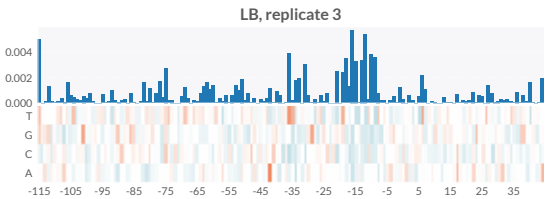

Glucose, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

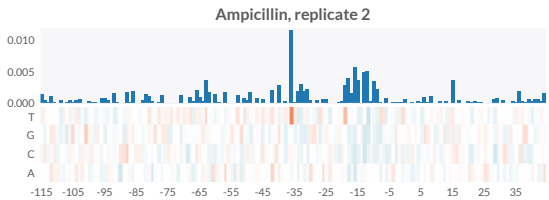

LB, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

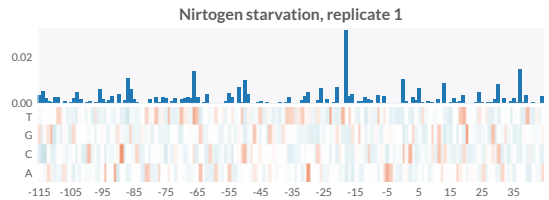

Glucose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

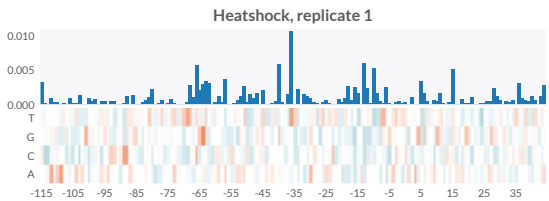

LB, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

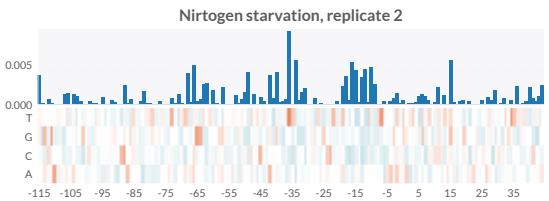

Ampicillin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

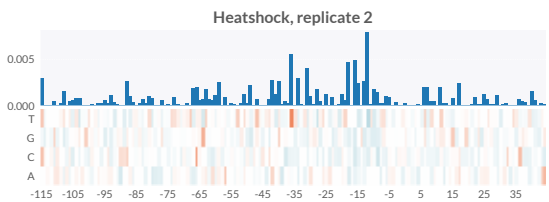

LB, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

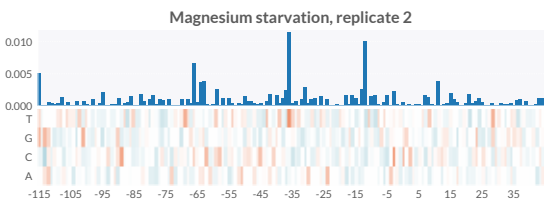

Ampicillin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

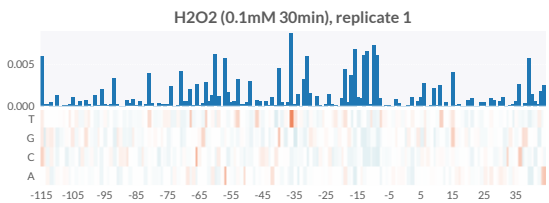

Nirtogen starvation, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

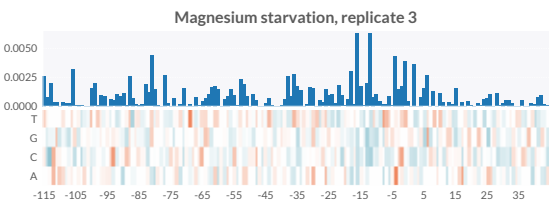

Heatshock, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

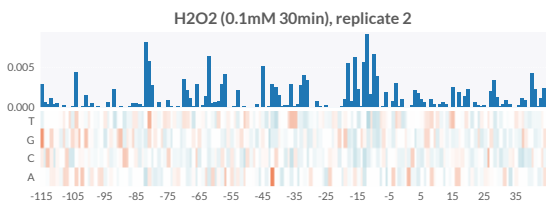

Nirtogen starvation, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

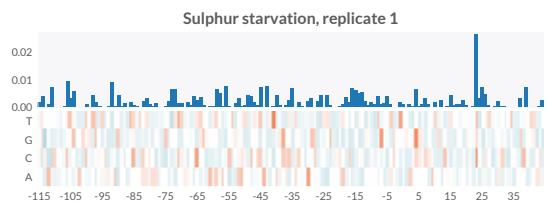

Heatshock, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

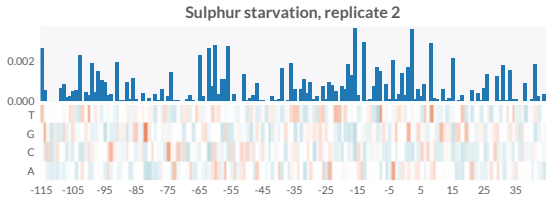

H2O2 (0.1mM 30min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

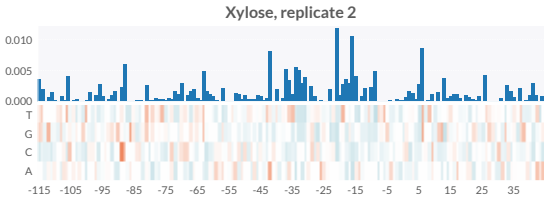

Magnesium starvation, replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

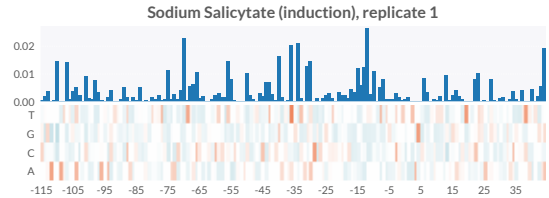

H2O2 (0.1mM 30min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

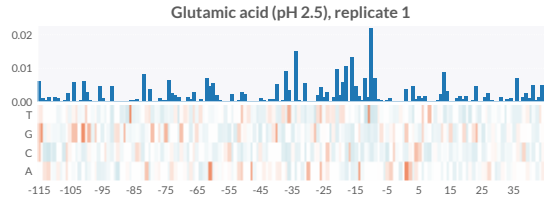

Sulphur starvation, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

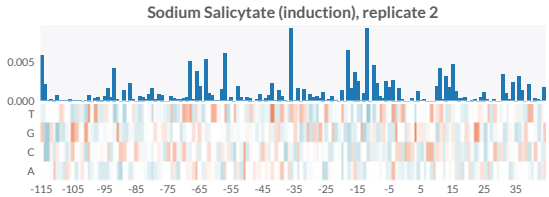
crpp1

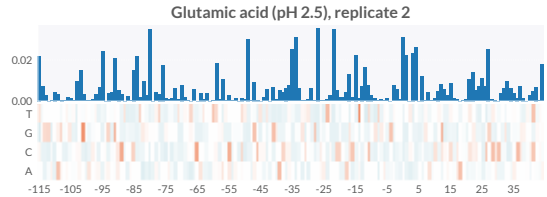

Sulphur starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

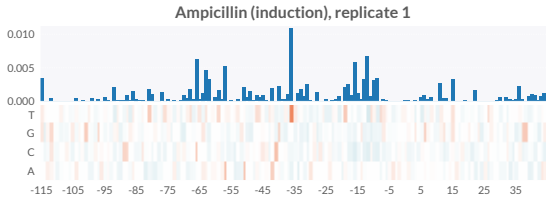

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

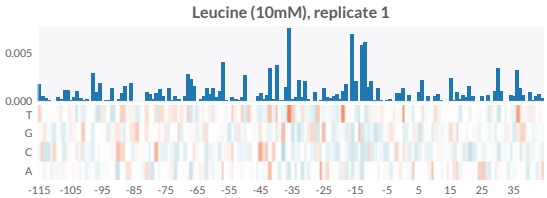

Sodium Salicytate (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

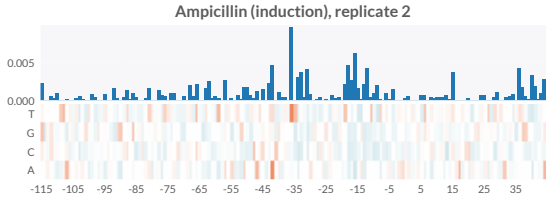

Glutamic acid (pH 2.5), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

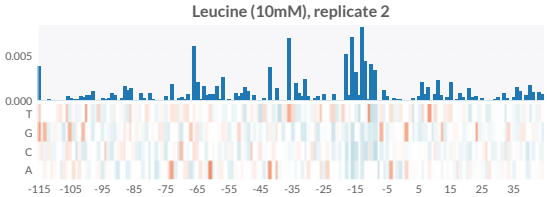

Sodium Salicytate (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

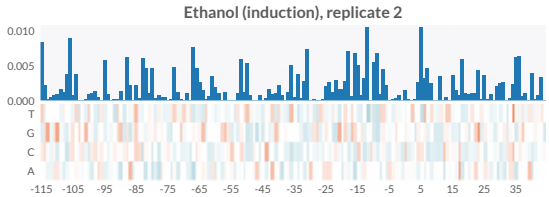

Glutamic acid (pH 2.5), replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

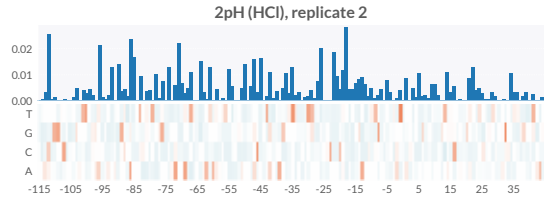

Ampicillin (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

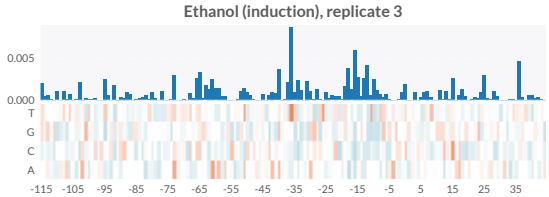

Leucine (10mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

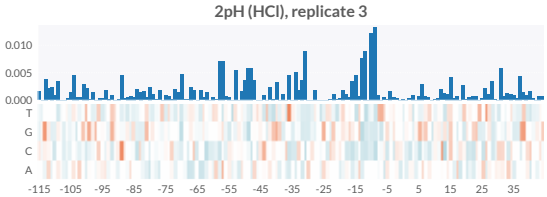

Ampicillin (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

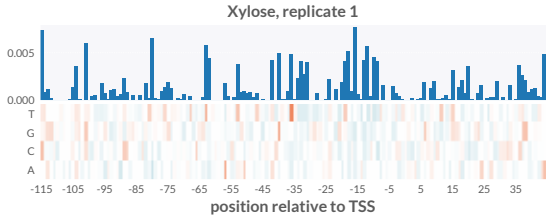

Leucine (10mM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

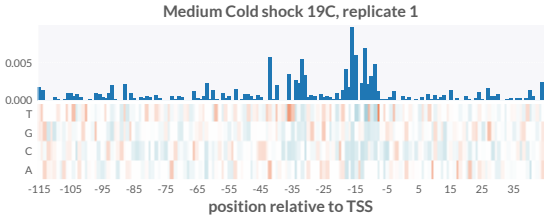

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

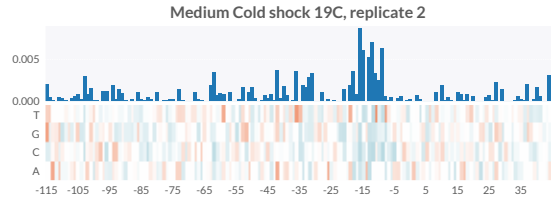

Ethanol (induction), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

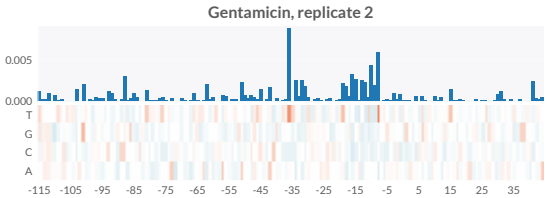

2pH (HCl), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

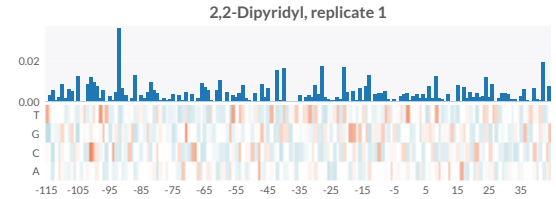

Xylose, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

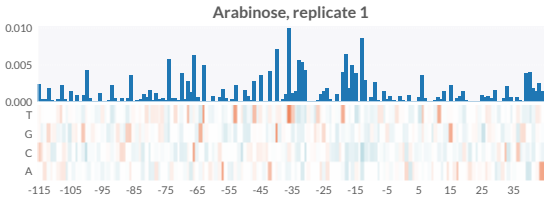

Medium Cold shock 19C, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

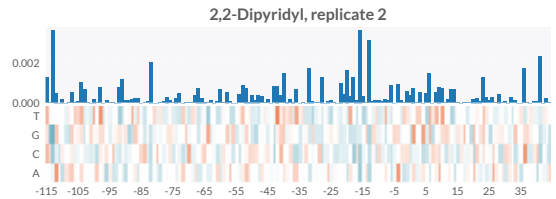
crpp1

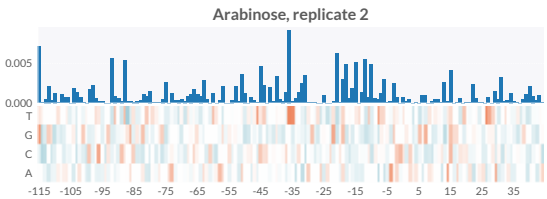

Medium Cold shock 19C, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

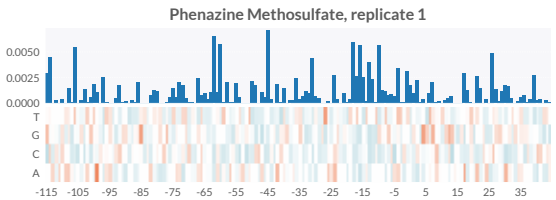

Gentamicin, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

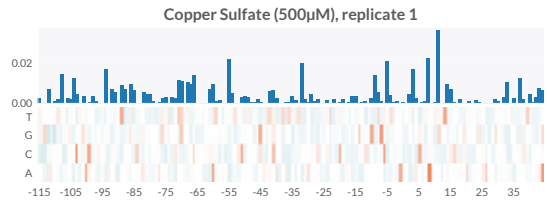

2,2-Dipyridyl, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

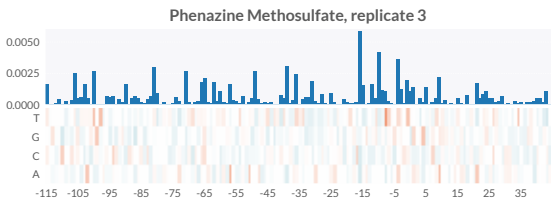

Arabinose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

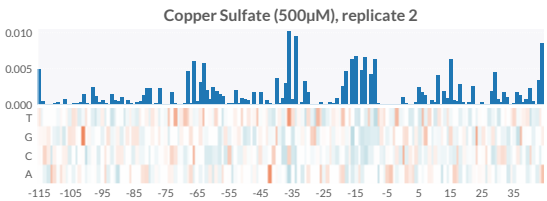

2,2-Dipyridyl, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

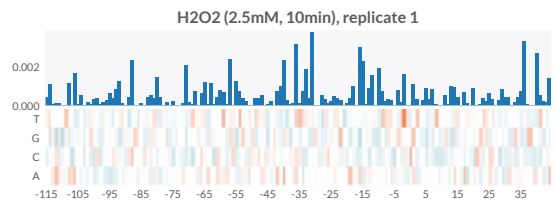

Arabinose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

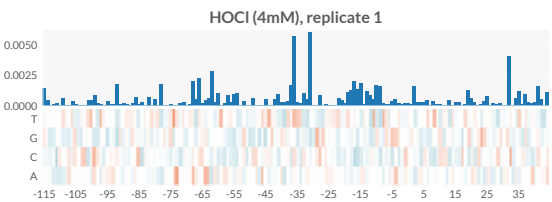

Phenazine Methosulfate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

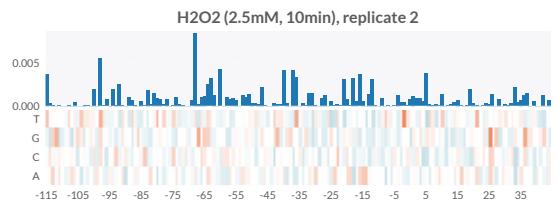

Copper Sulfate (500µM), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

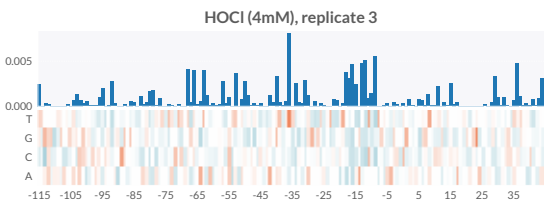

Phenazine Methosulfate, replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

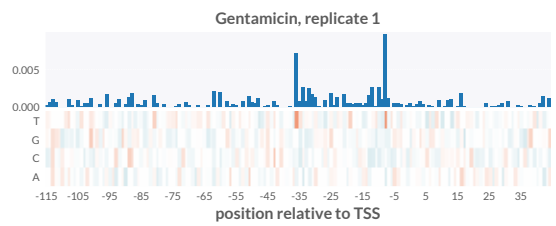

Copper Sulfate (500µM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

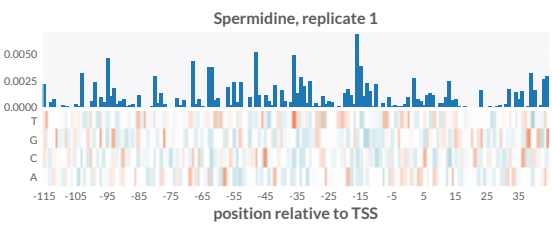

H2O2 (2.5mM, 10min), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

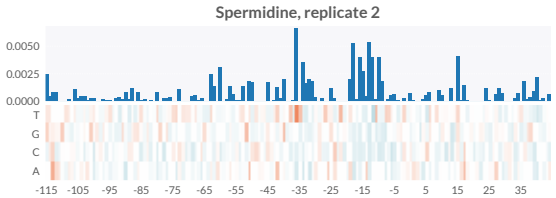

H2O2 (2.5mM, 10min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

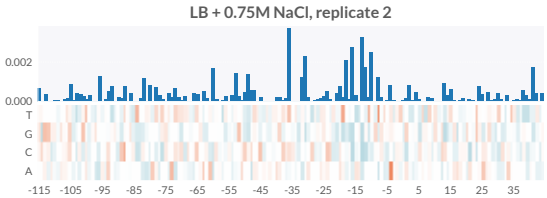

HOCl (4mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

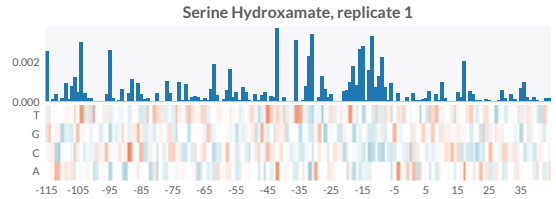

Gentamicin, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

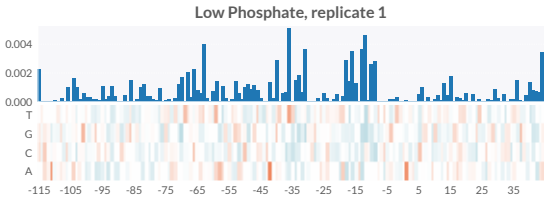

Spermidine, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

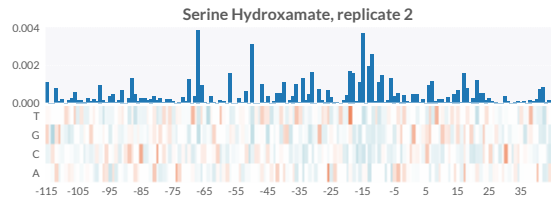
crpp1

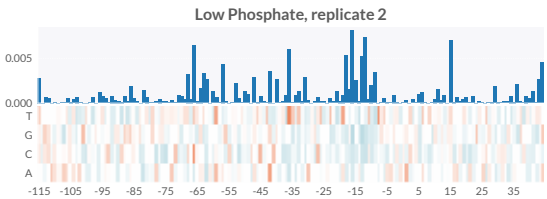

Spermidine, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

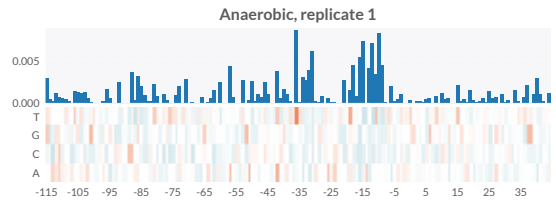

LB + 0.75M NaCl, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

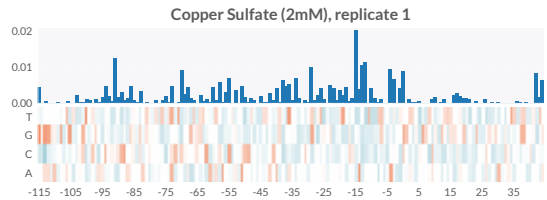

Serine Hydroxamate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

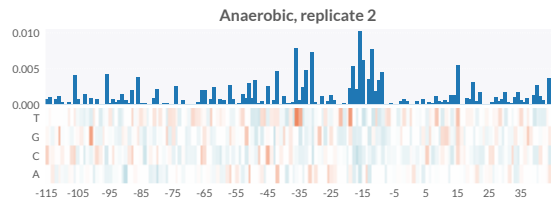

Low Phosphate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

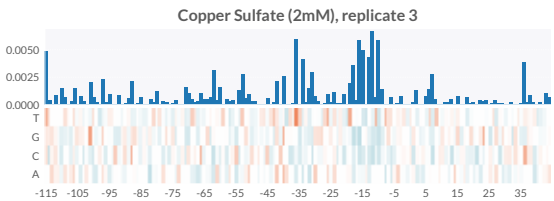

Serine Hydroxamate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

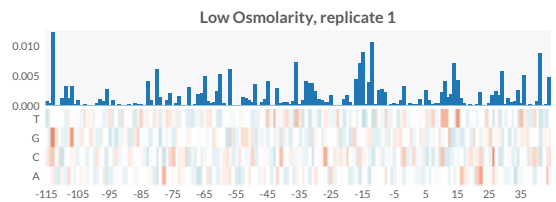

Low Phosphate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

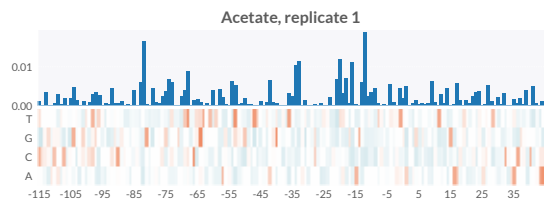

Anaerobic, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

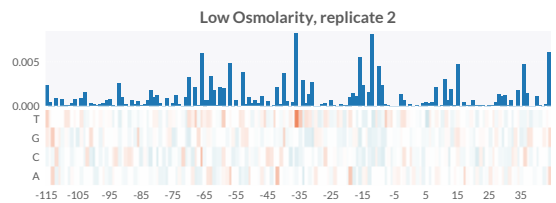

Copper Sulfate (2mM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

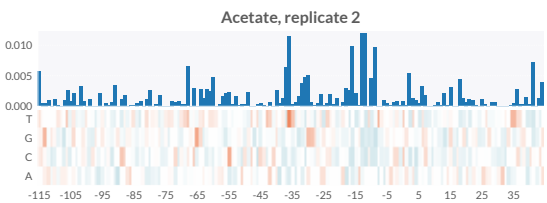

Anaerobic, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

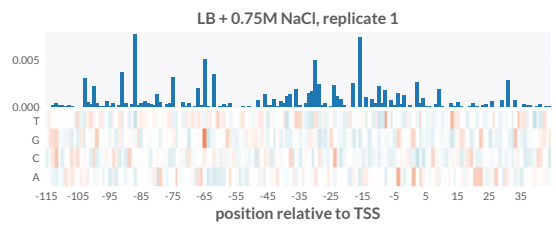

Copper Sulfate (2mM), replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

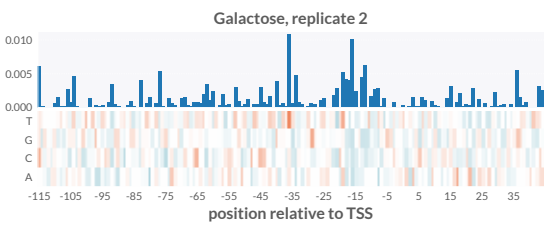

Low Osmolarity, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

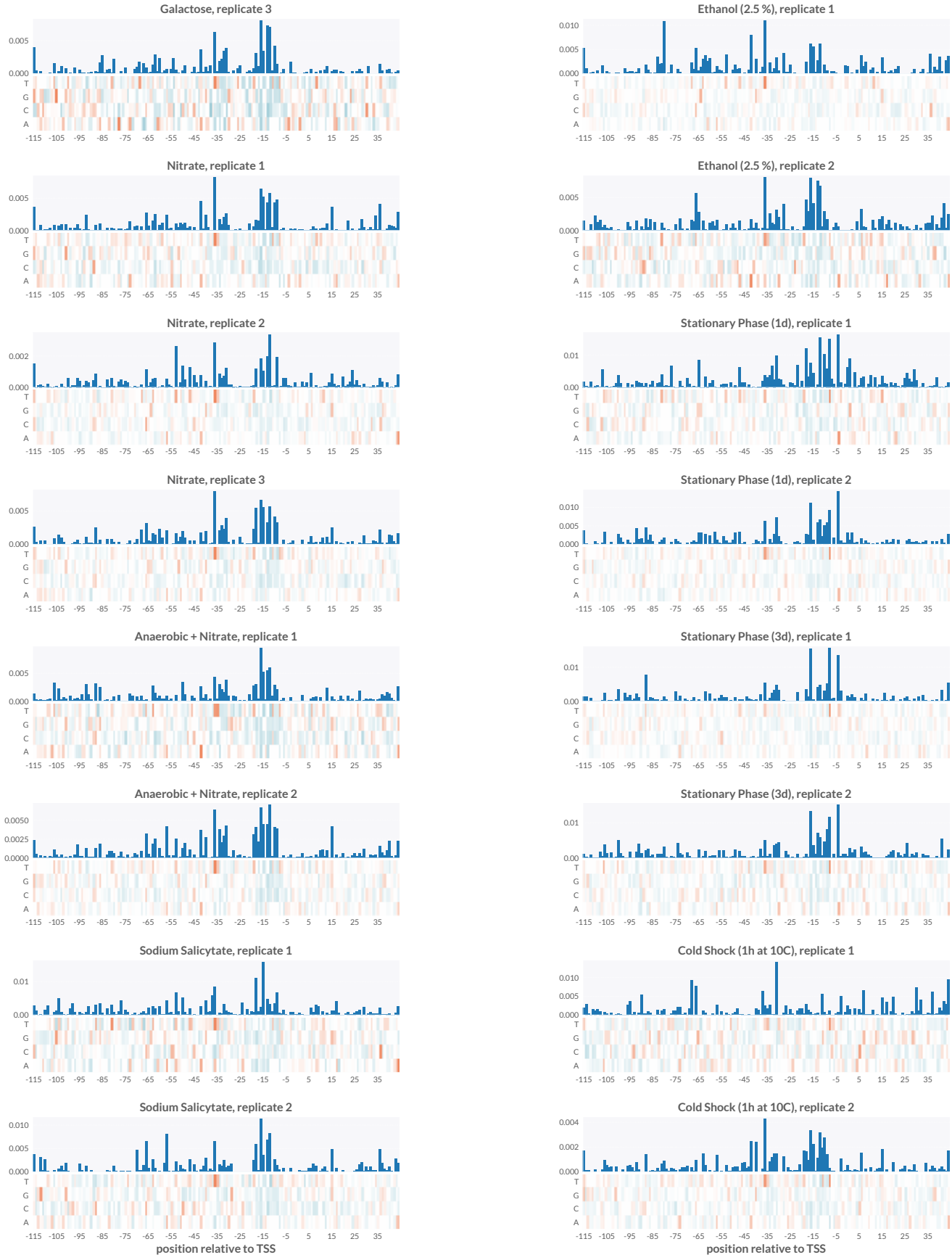

Low Osmolarity, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


LB + 0.75M NaCl, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Galactose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

crpp1


Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

crpp2


Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

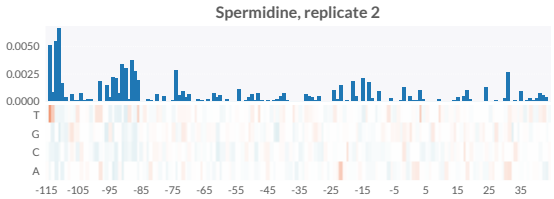
crpp2

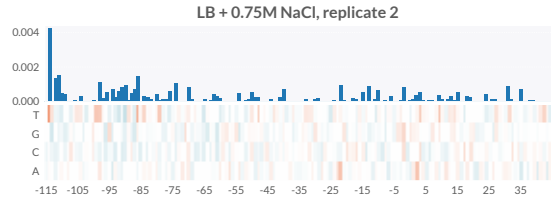

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

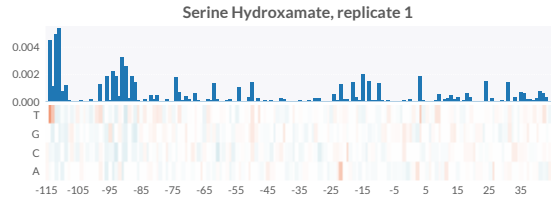
crpp2

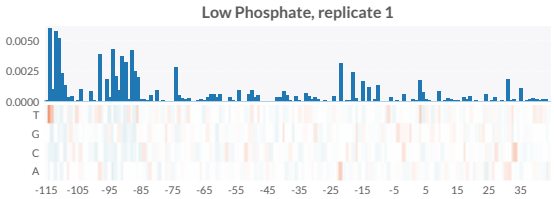

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

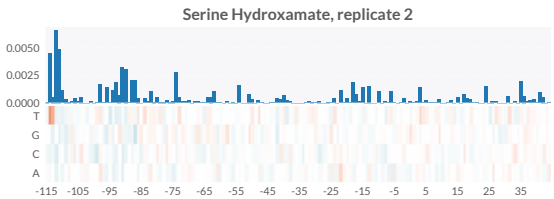
crpp2

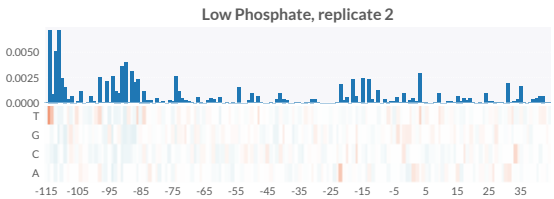

Spermidine, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

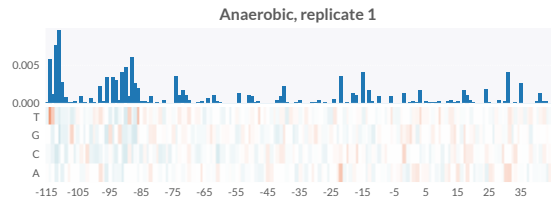

LB + 0.75M NaCl, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

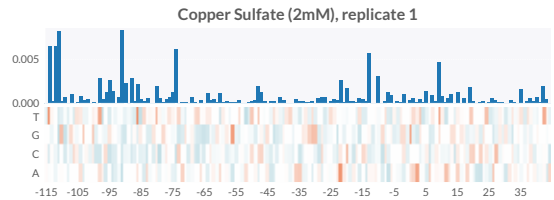

Serine Hydroxamate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

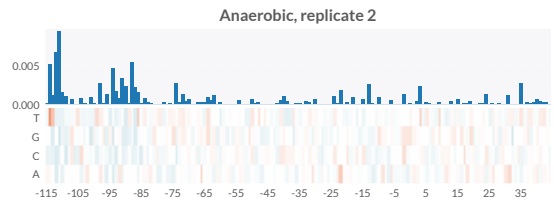

Low Phosphate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

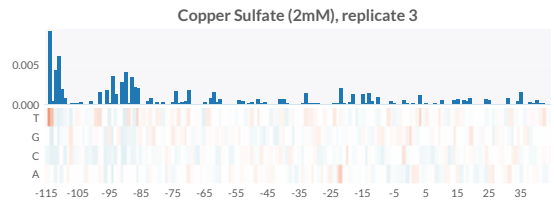

Serine Hydroxamate, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

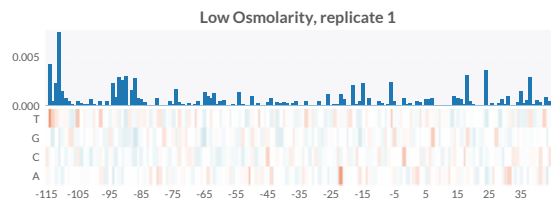

Low Phosphate, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

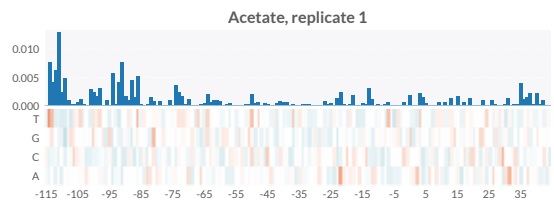

Anaerobic, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

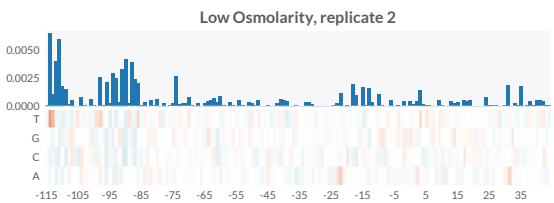

Copper Sulfate (2mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

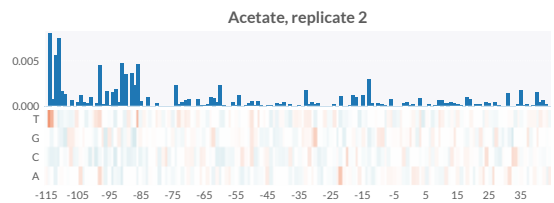

Anaerobic, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

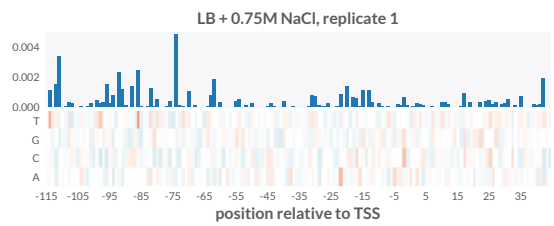

Copper Sulfate (2mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

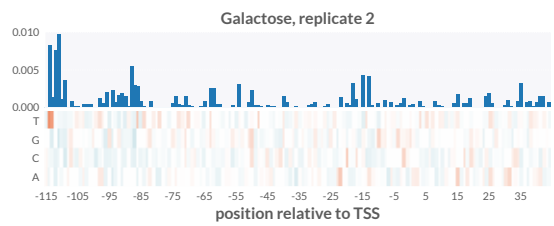

Low Osmolarity, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Low Osmolarity, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

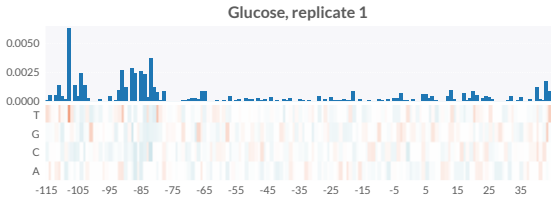

LB + 0.75M NaCl, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

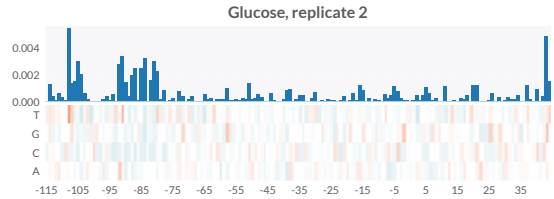

Galactose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

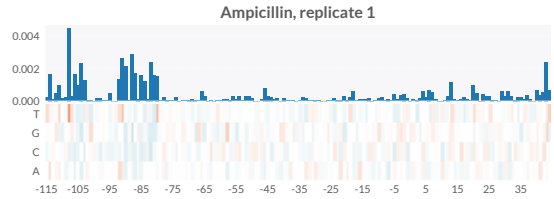
crpp2

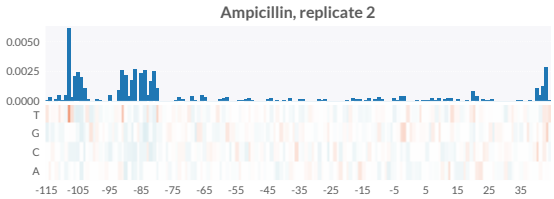

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

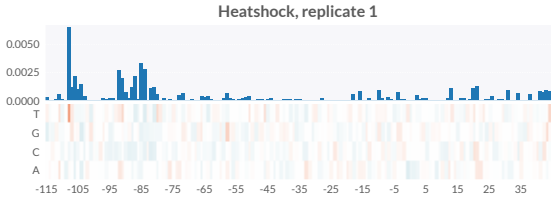
crpp3

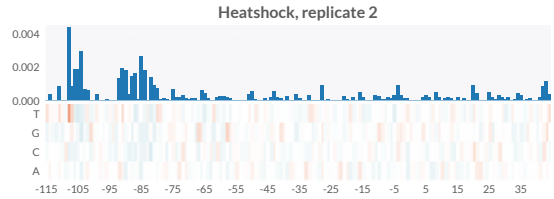

Glucose, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

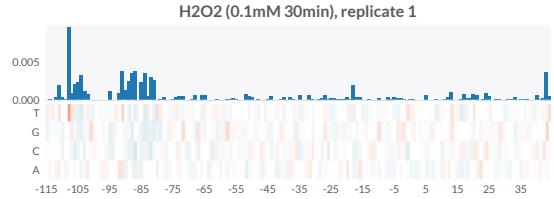

Glucose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

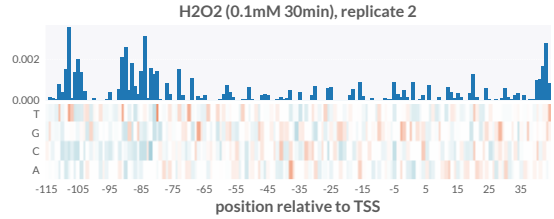

Ampicillin, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

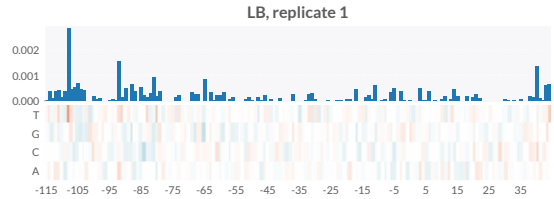

Ampicillin, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

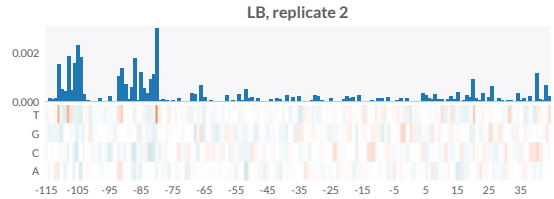

Heatshock, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

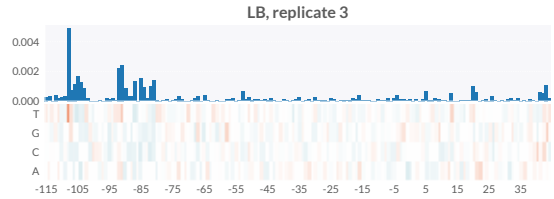

Heatshock, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

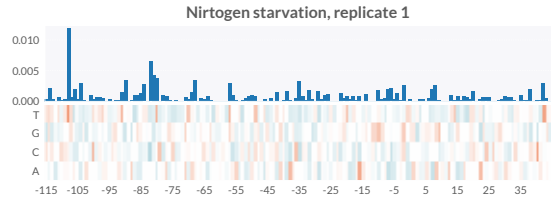

H2O2 (0.1mM 30min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

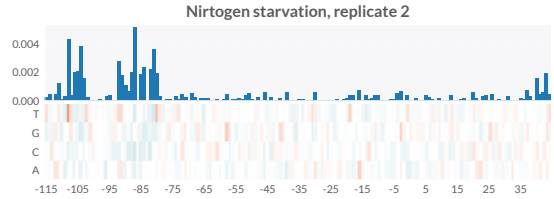

H2O2 (0.1mM 30min), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

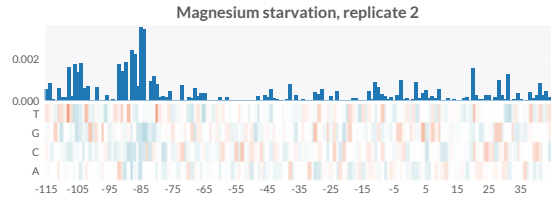

LB, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

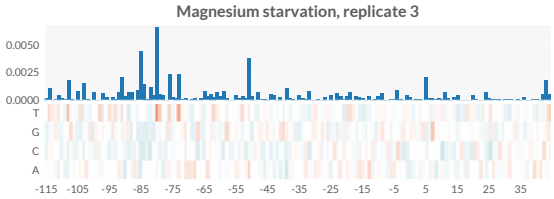

LB, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

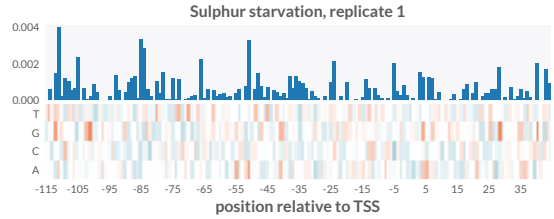

LB, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Nirtogen starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

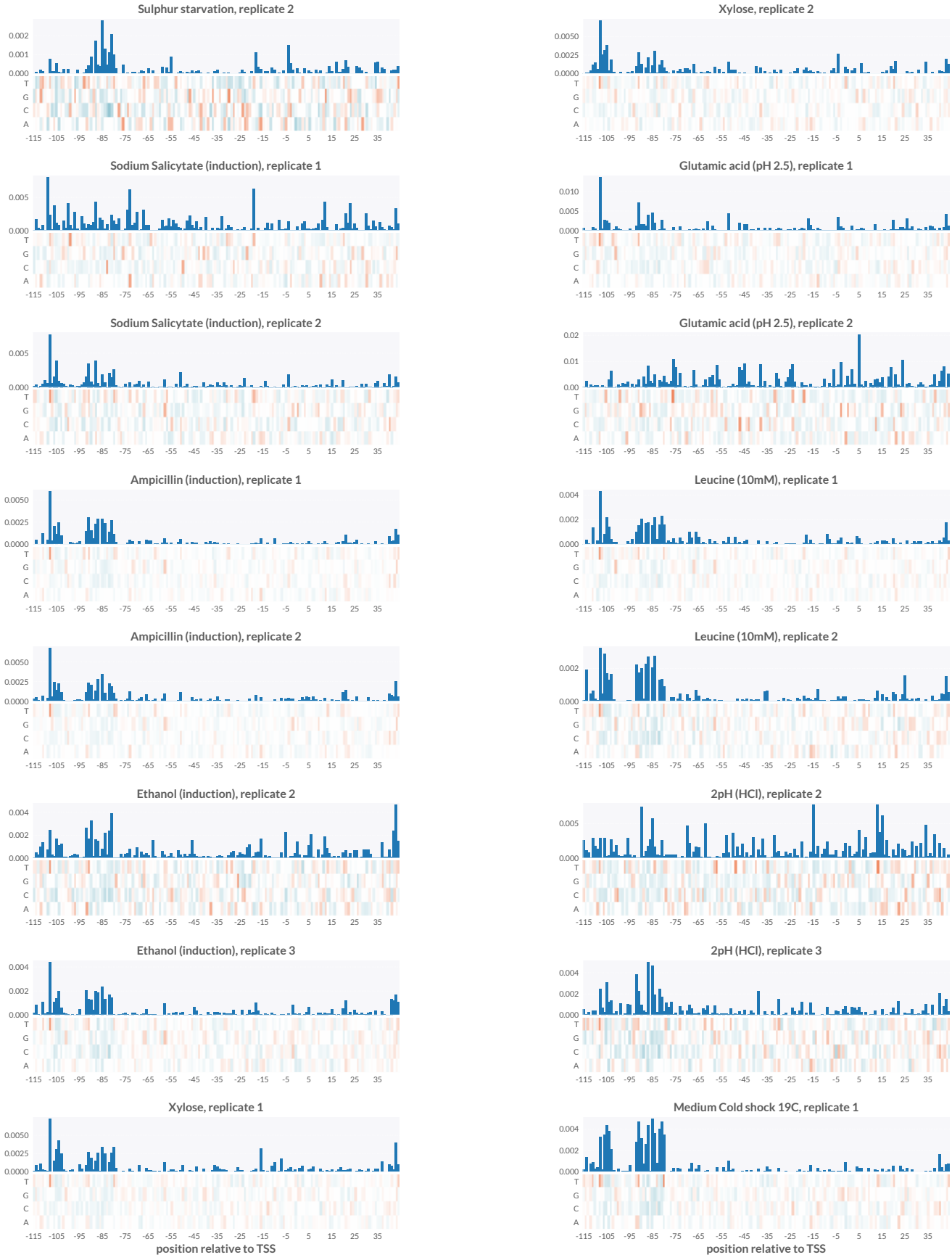

Nirtogen starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

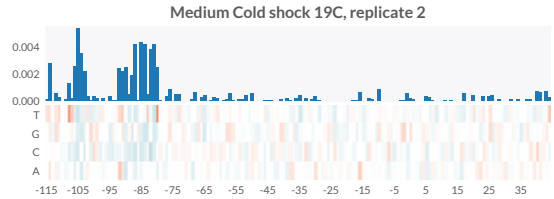

Magnesium starvation, replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

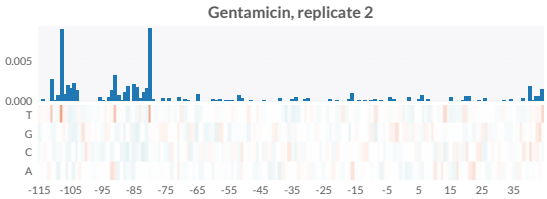

Sulphur starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

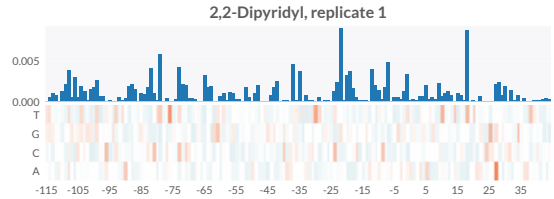
crpp3

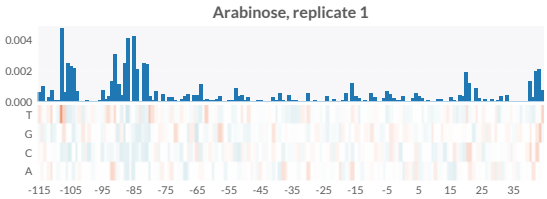

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

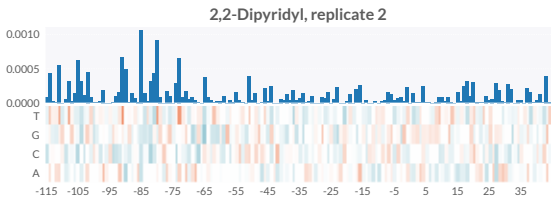
crpp3

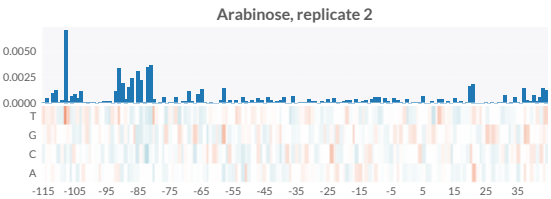

Medium Cold shock 19C, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

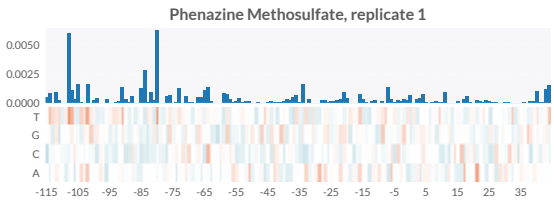

Gentamicin, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

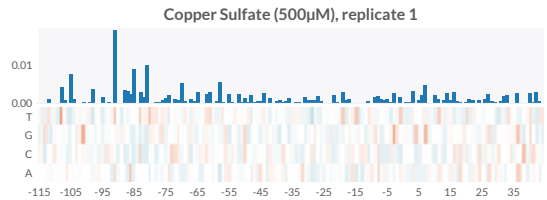

2,2-Dipyridyl, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

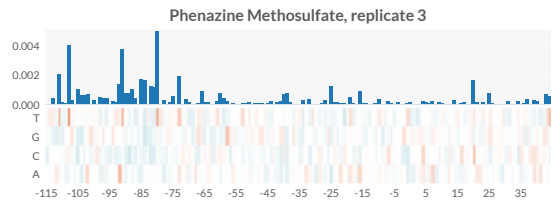

Arabinose, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

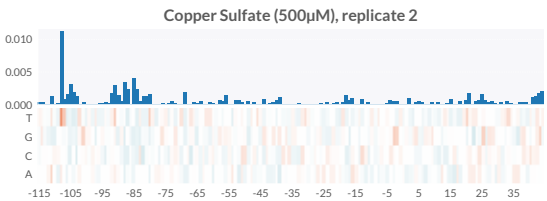

2,2-Dipyridyl, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

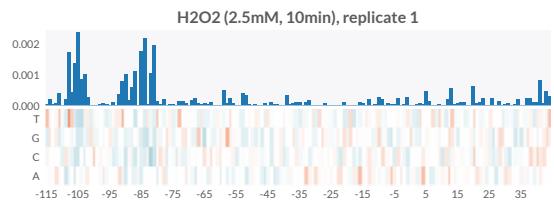

Arabinose, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

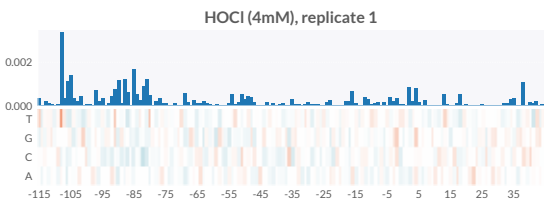

Phenazine Methosulfate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

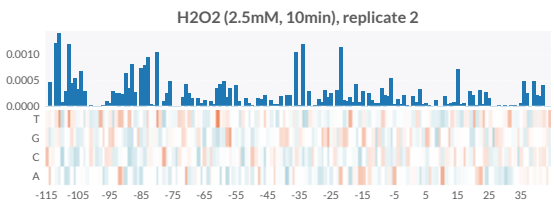

Copper Sulfate (500µM), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

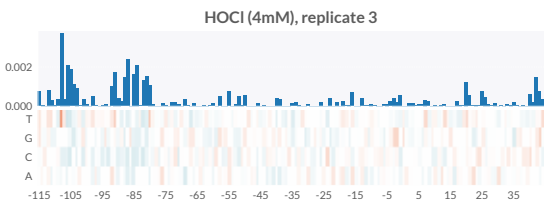

Phenazine Methosulfate, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

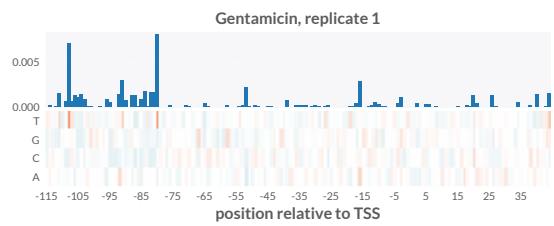

Copper Sulfate (500µM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

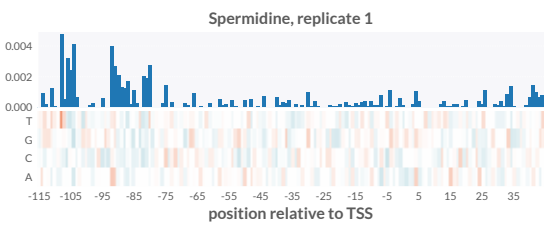

H2O2 (2.5mM, 10min), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

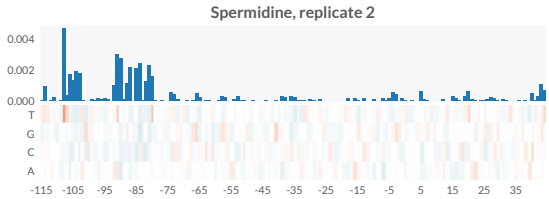

H2O2 (2.5mM, 10min), replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

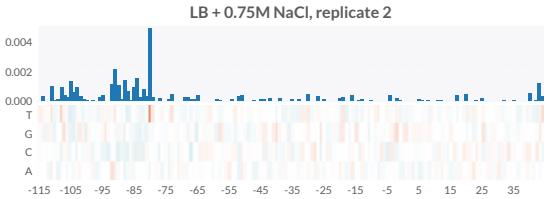

HOCl (4mM), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

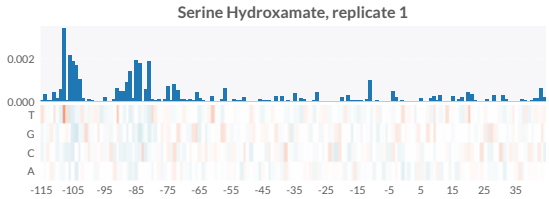

Gentamicin, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

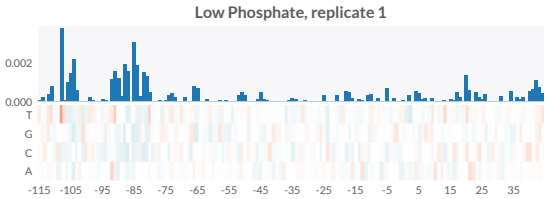

Spermidine, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

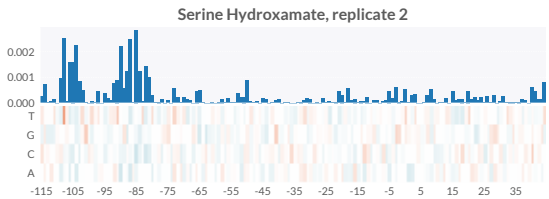
crpp3

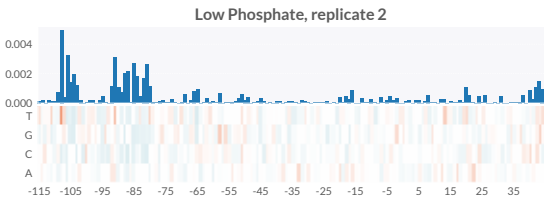

Spermidine, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

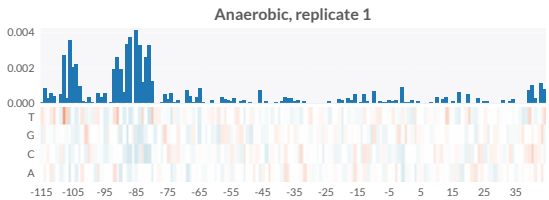

LB + 0.75M NaCl, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

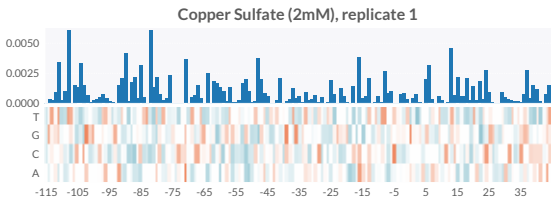

Serine Hydroxamate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

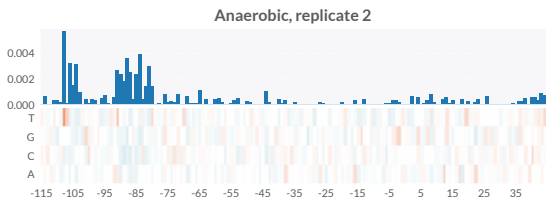

Low Phosphate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

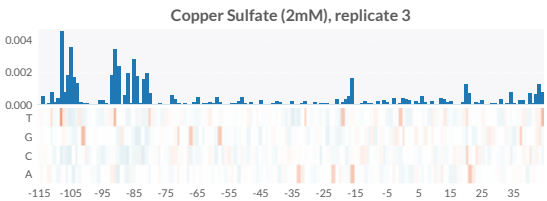

Serine Hydroxamate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

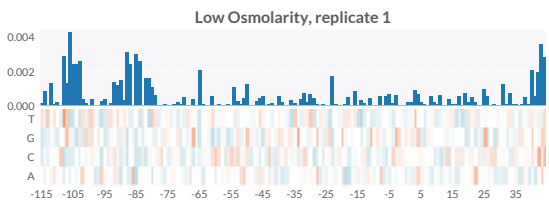

Low Phosphate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

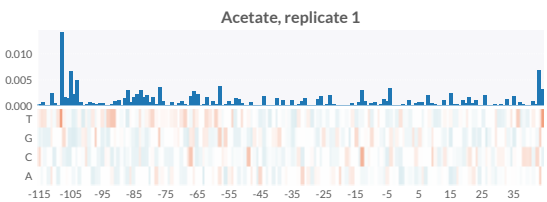

Anaerobic, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

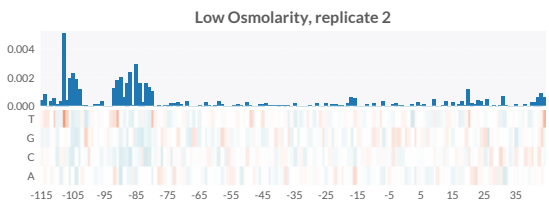

Copper Sulfate (2mM), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

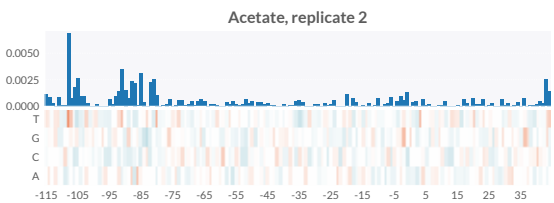

Anaerobic, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

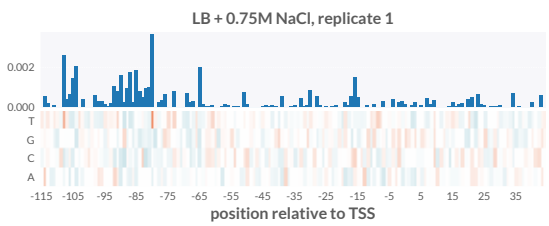

Copper Sulfate (2mM), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

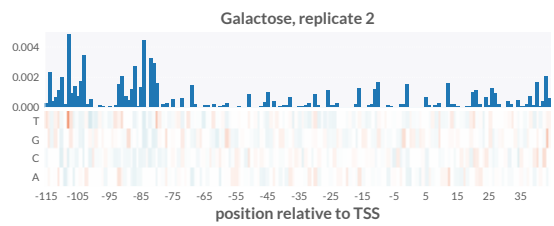

Low Osmolarity, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

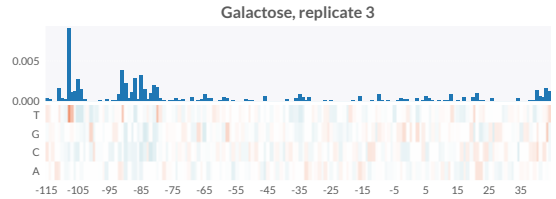

Low Osmolarity, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

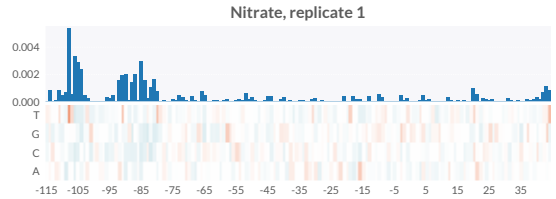

Acetate, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

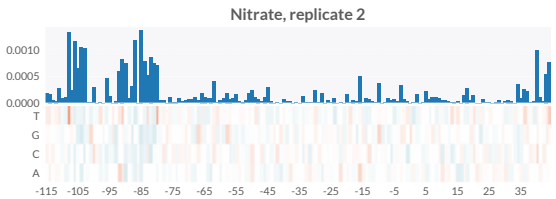

LB + 0.75M NaCl, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

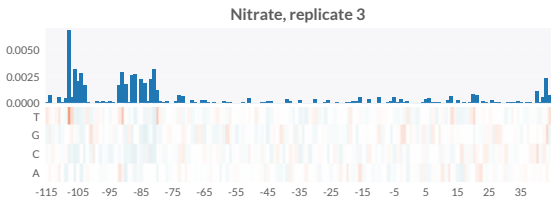

Galactose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

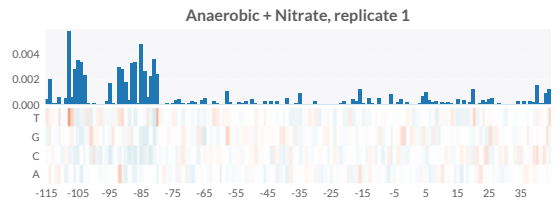
crpp3

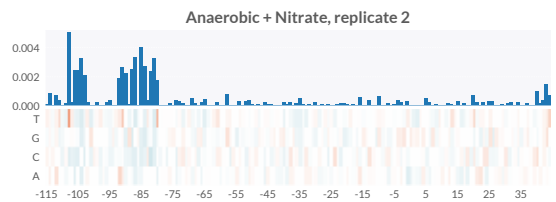

Galactose, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

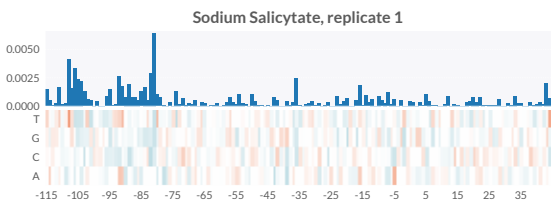

Nitrate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

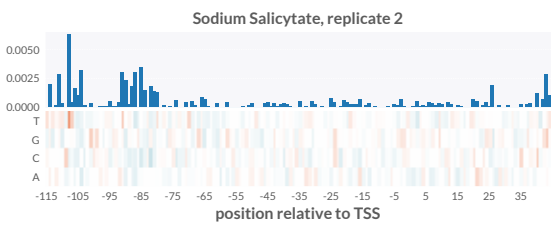

Nitrate, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

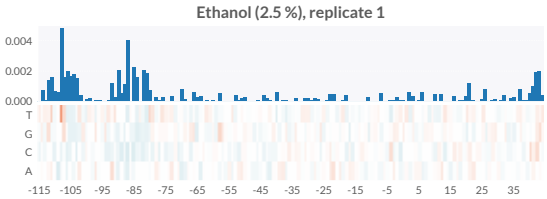

Nitrate, replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

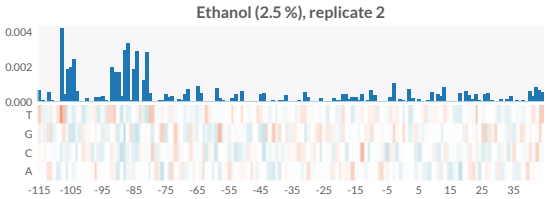

Anaerobic + Nitrate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

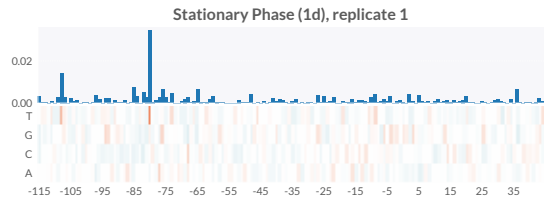

Anaerobic + Nitrate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

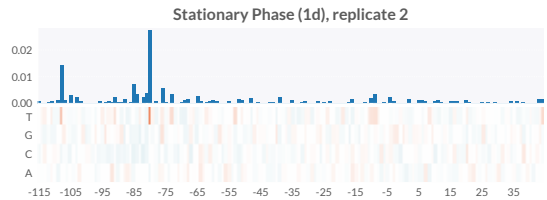

Sodium Salicytate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

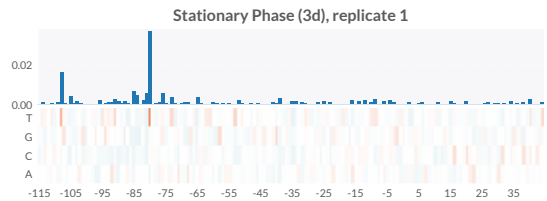

Sodium Salicytate, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

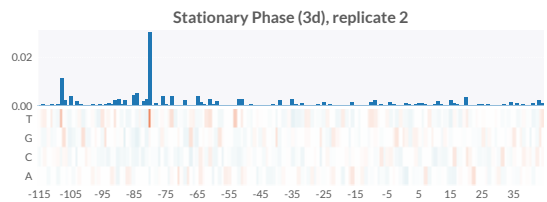

Ethanol (2.5 %), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

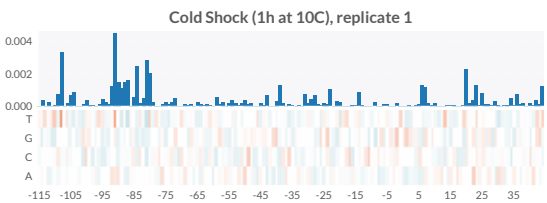

Ethanol (2.5 %), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

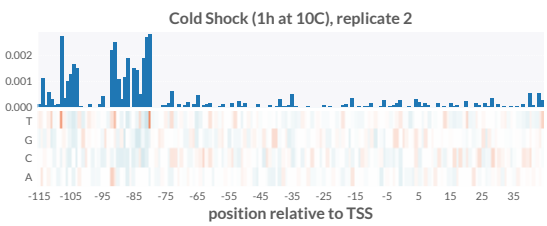

Stationary Phase (1d), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (1d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

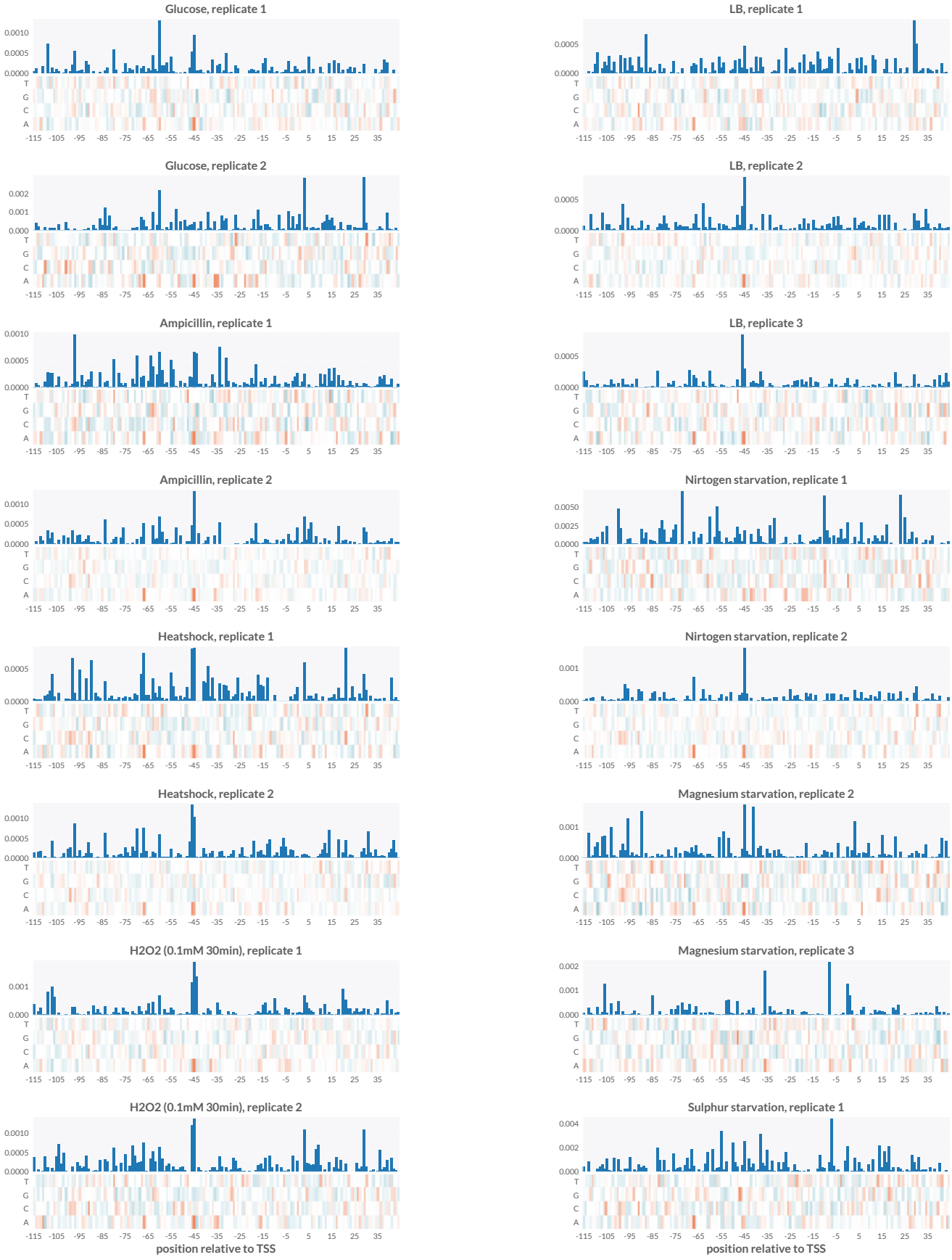

Stationary Phase (3d), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

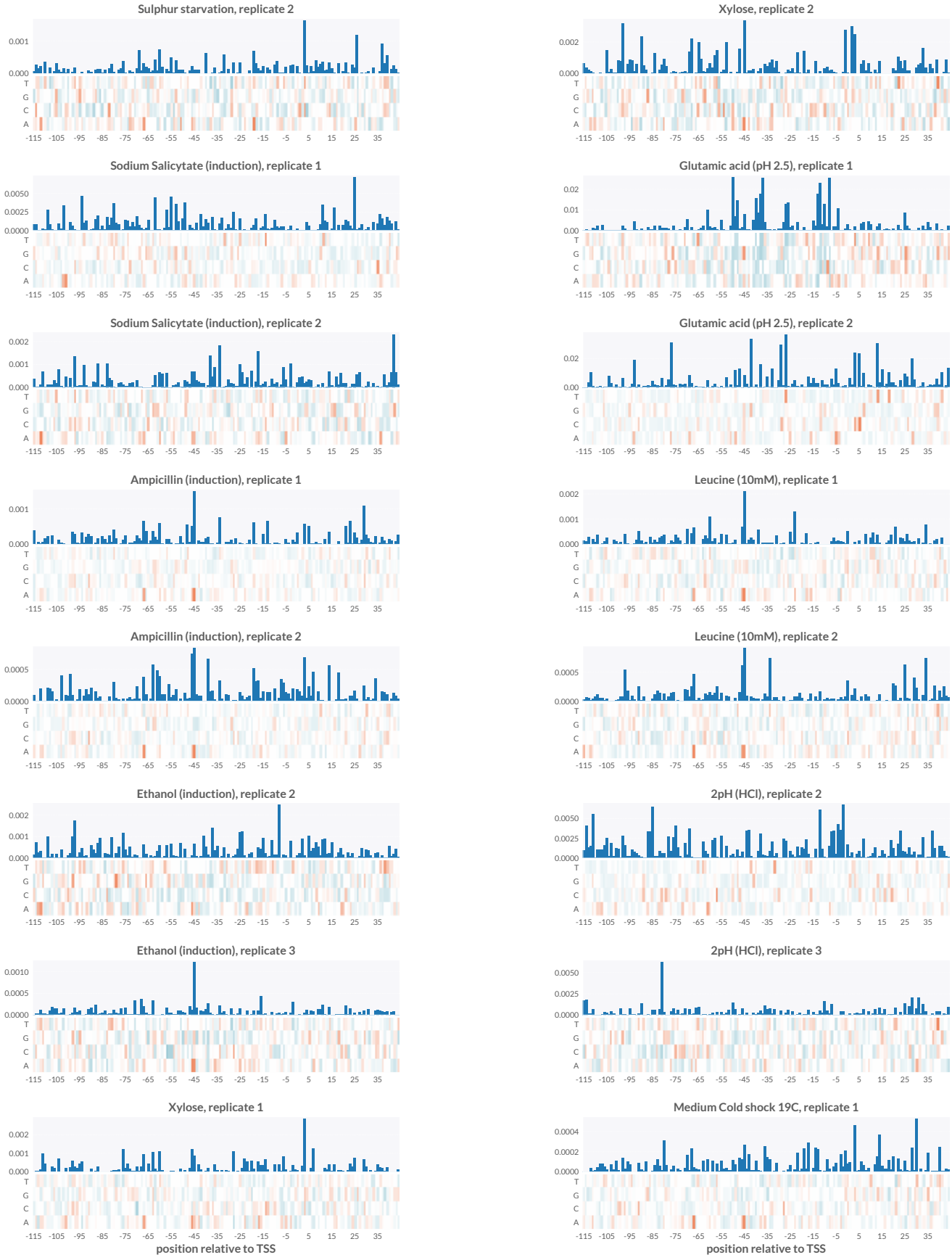

Cold Shock (1h at 10C), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

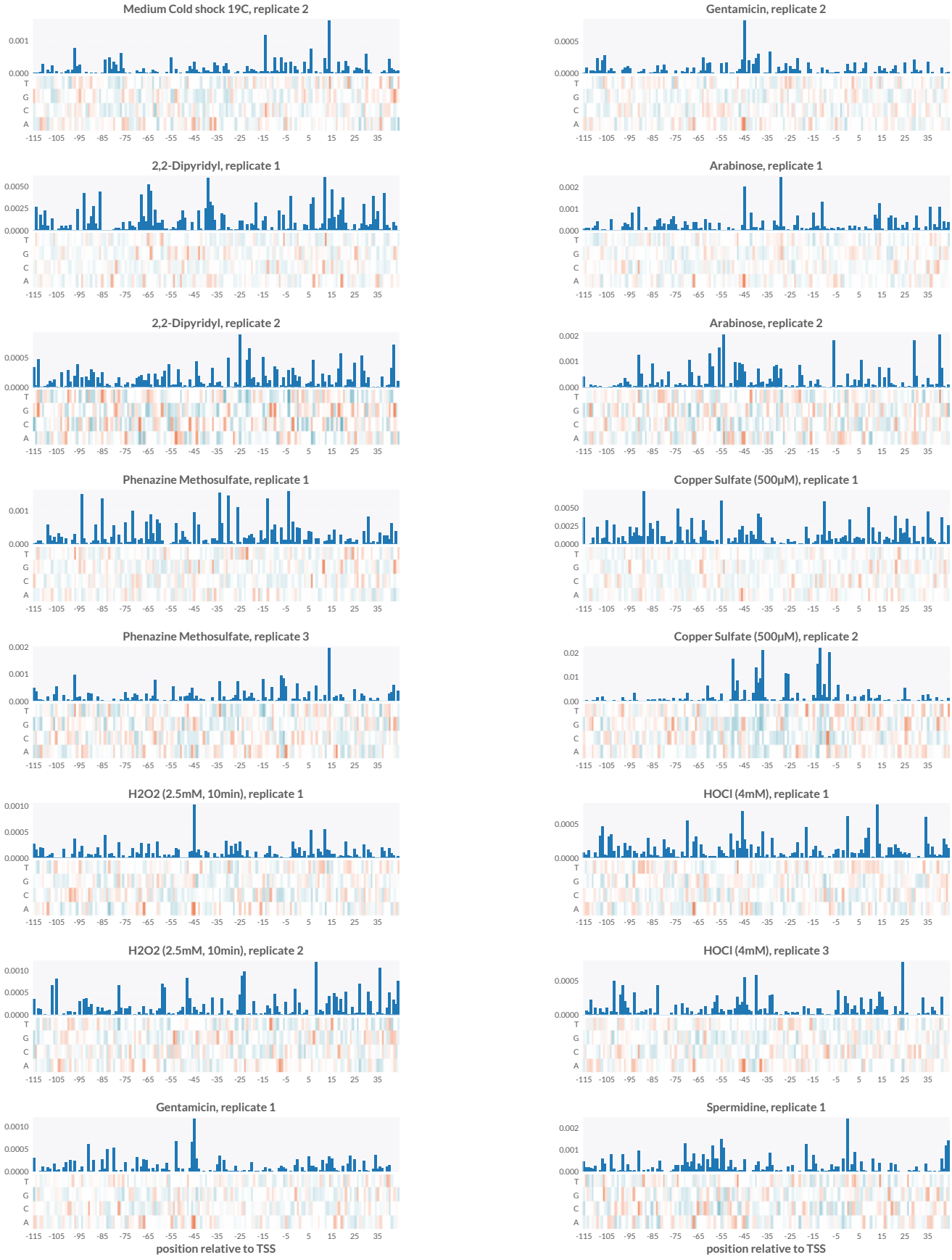
cusCp


Glucose, replicate 1
Glucose, replicate 2
Ampicillin, replicate 1
Ampicillin, replicate 2
Heatshock, replicate 1
Heatshock, replicate 2
H2O2 (0.1mM 30min), replicate 1
H2O2 (0.1mM 30min), replicate 2
LB, replicate 1
LB, replicate 2
LB, replicate 3
Nirtogen starvation, replicate 1
Nirtogen starvation, replicate 2
Magnesium starvation, replicate 2
Magnesium starvation, replicate 3
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

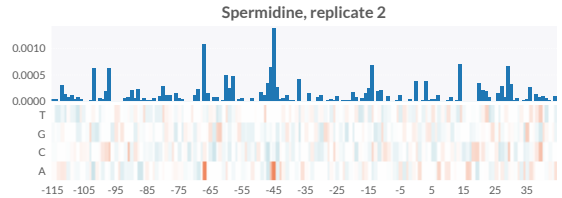
cusCp

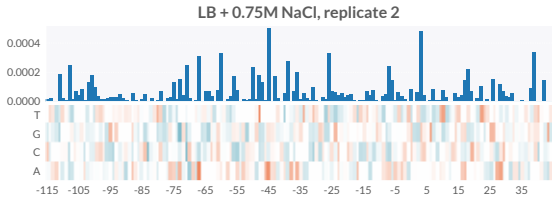

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

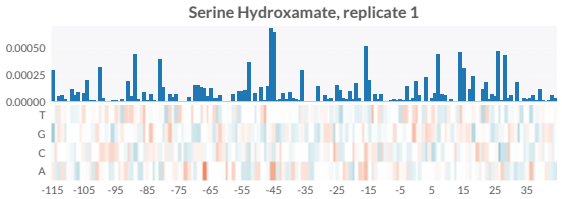
cusCp

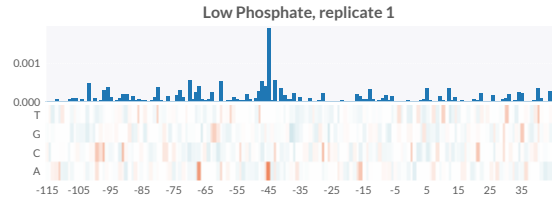

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

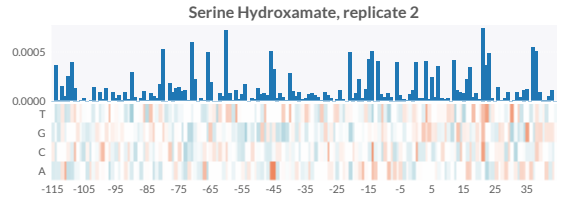
cusCp

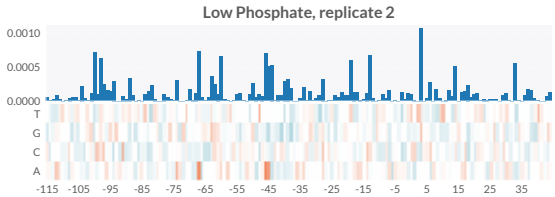

Spermidine, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

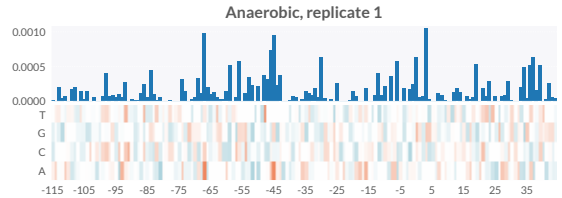

LB + 0.75M NaCl, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

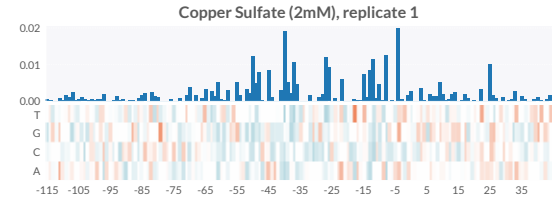

Serine Hydroxamate, replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

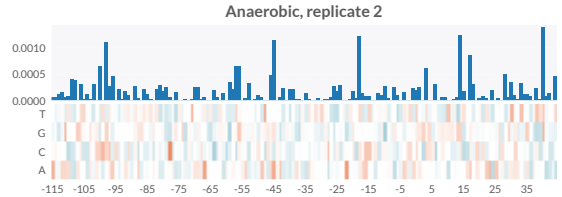

Low Phosphate, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

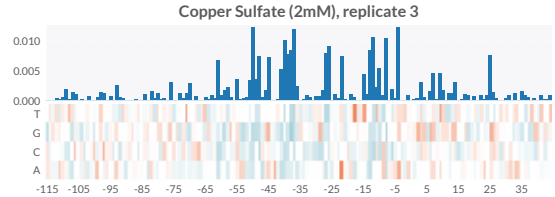

Serine Hydroxamate, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

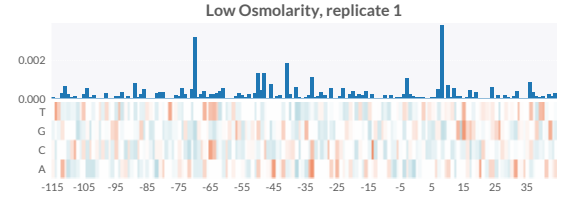

Low Phosphate, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

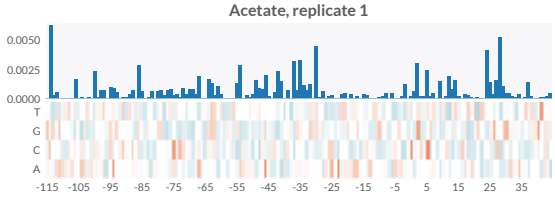

Anaerobic, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

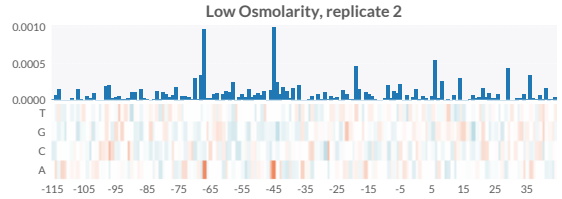

Copper Sulfate (2mM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

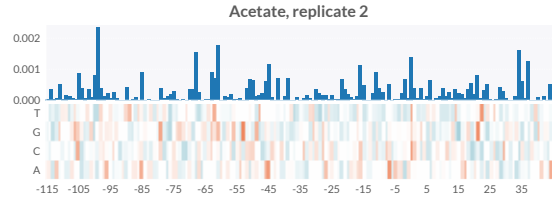

Anaerobic, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

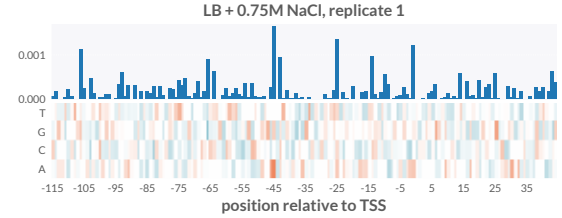

Copper Sulfate (2mM), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

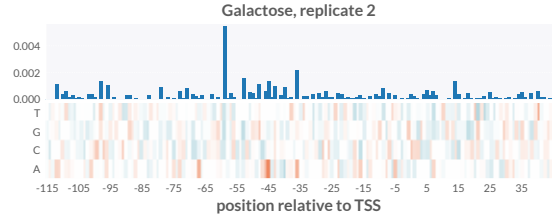

Low Osmolarity, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

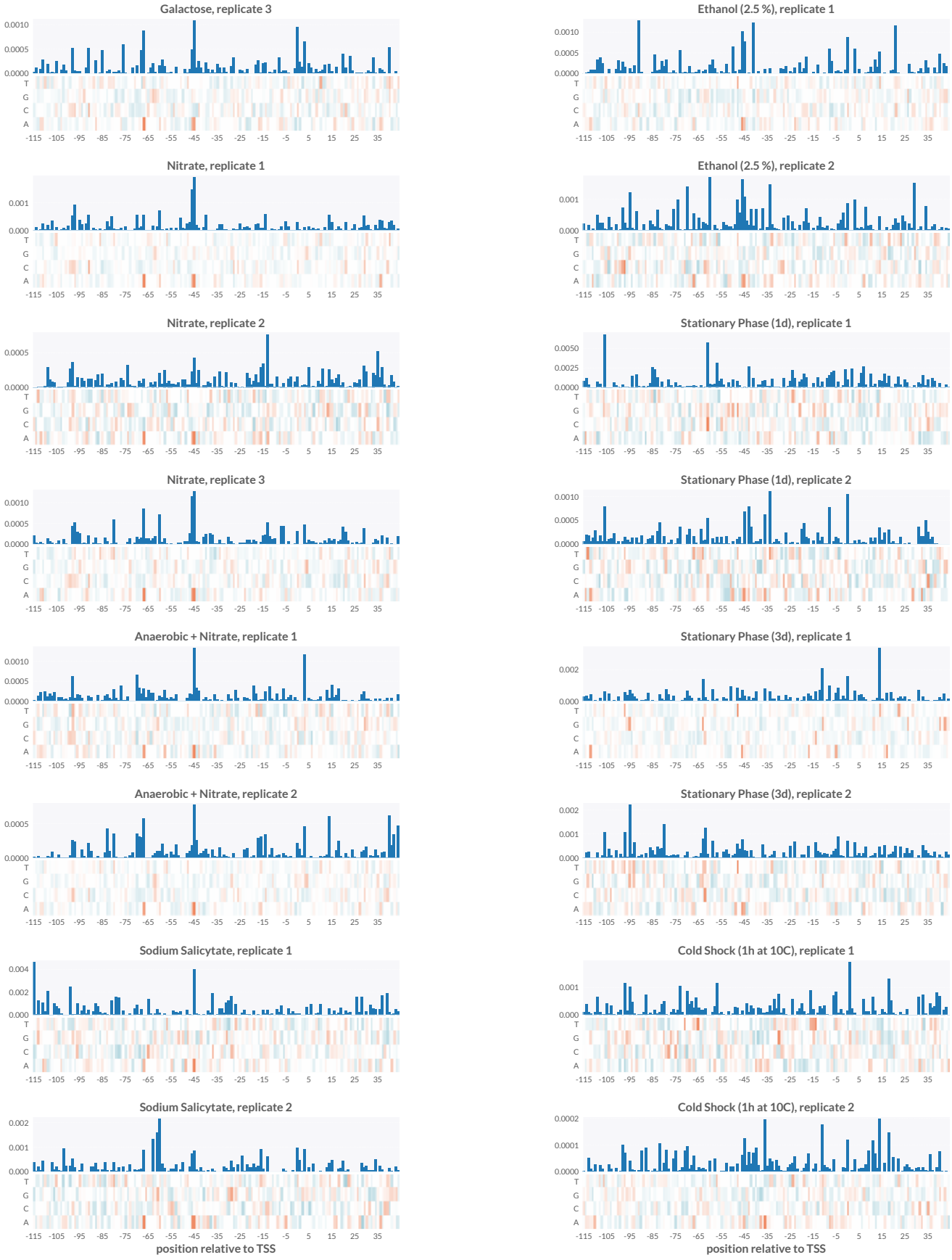

Low Osmolarity, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

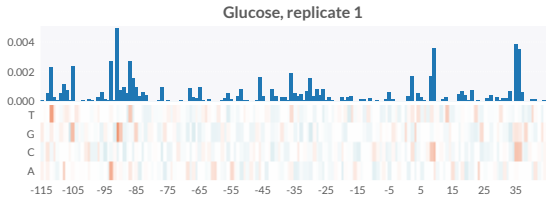

LB + 0.75M NaCl, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

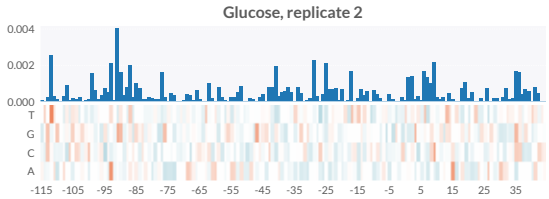

Galactose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

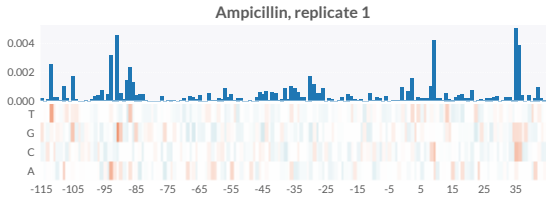
cusCp

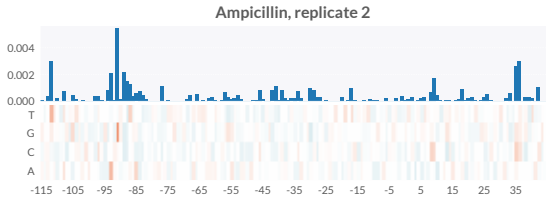

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

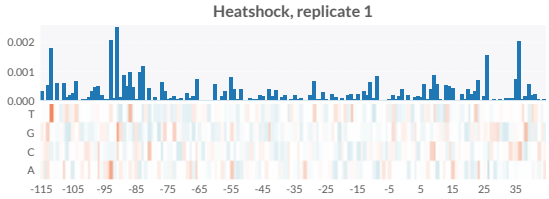
dgoRp

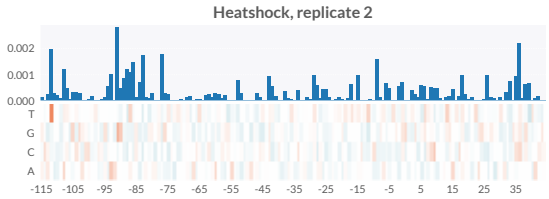

Glucose, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

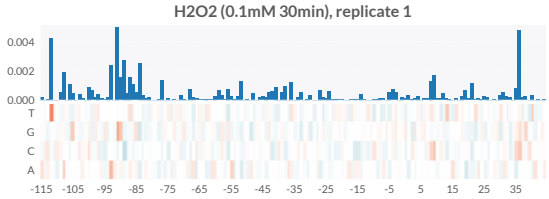

Glucose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

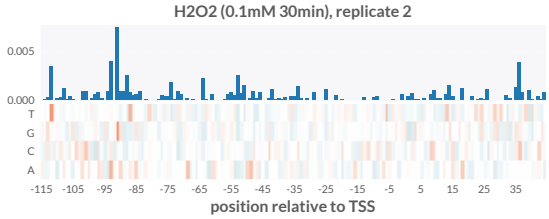

Ampicillin, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

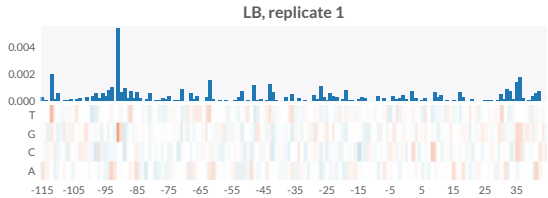

Ampicillin, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

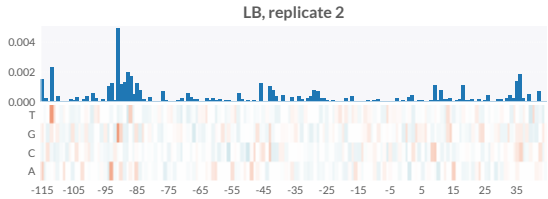

Heatshock, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

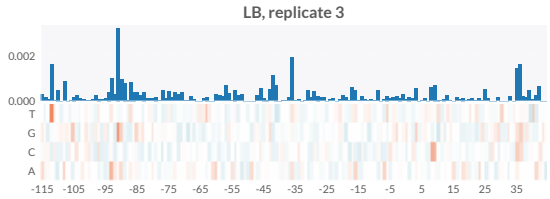

Heatshock, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

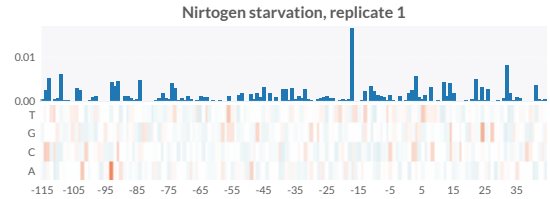

H2O2 (0.1mM 30min), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

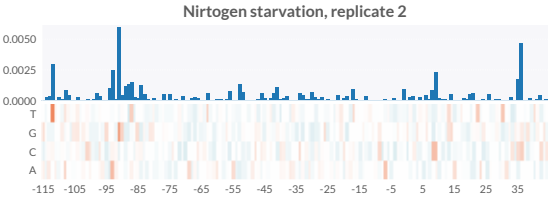

H2O2 (0.1mM 30min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

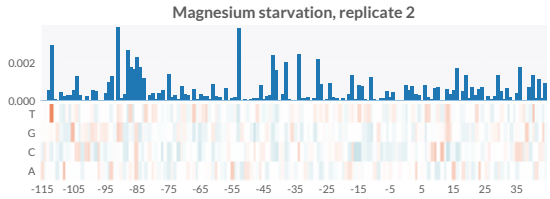

LB, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

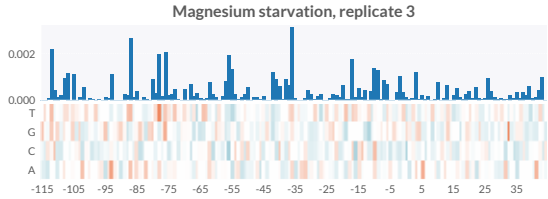

LB, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

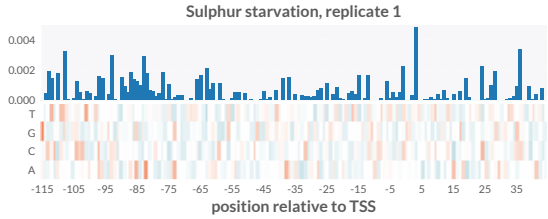

LB, replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Nirtogen starvation, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

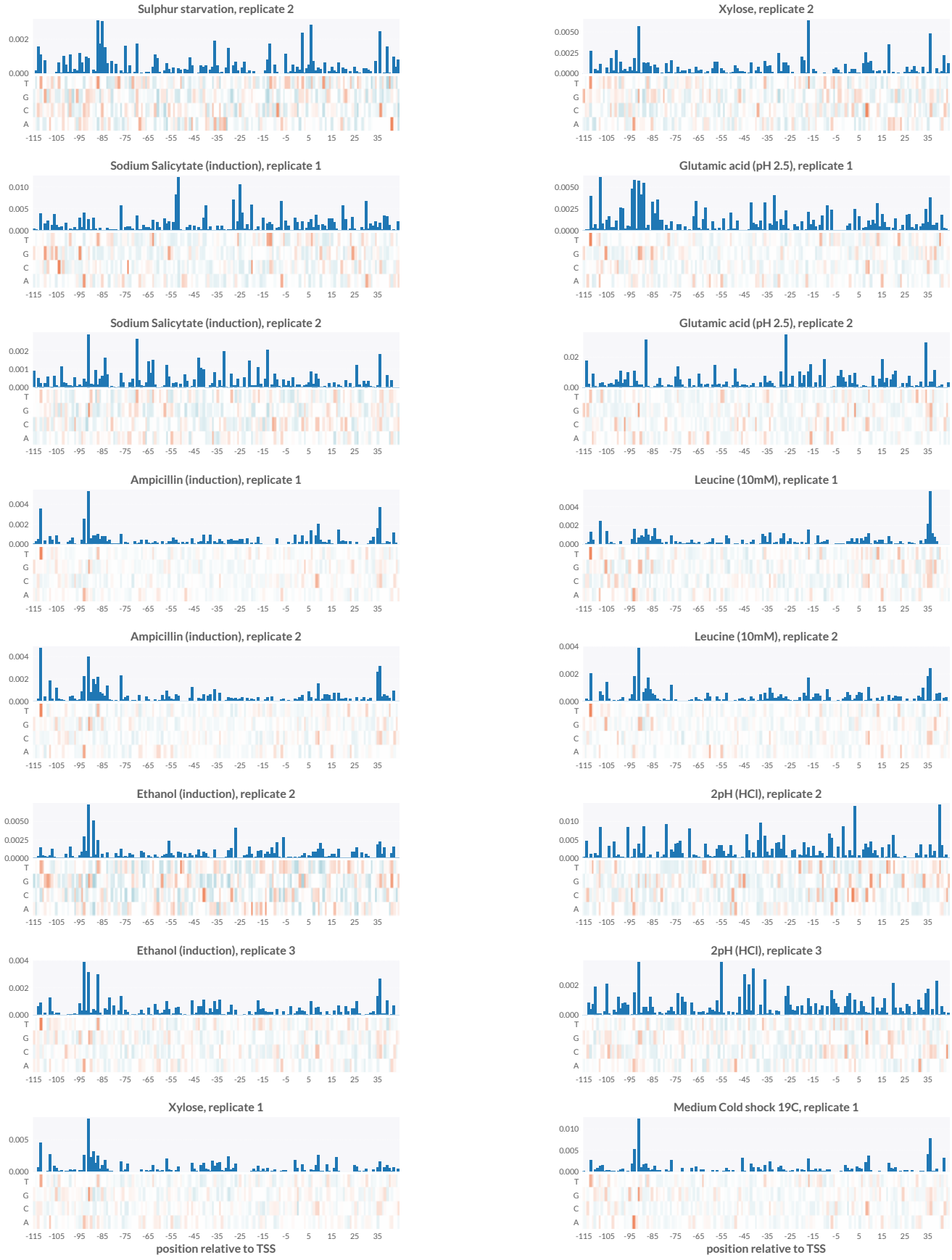

Nirtogen starvation, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

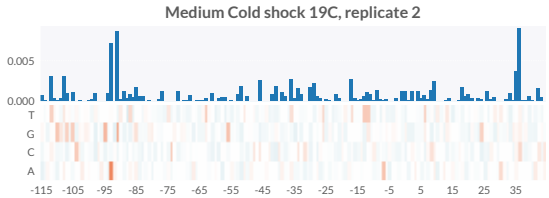

Magnesium starvation, replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

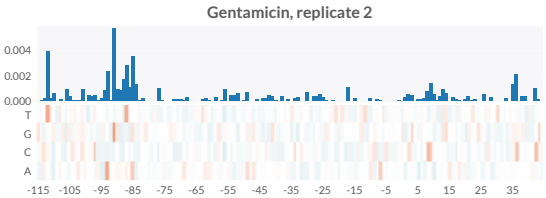

Sulphur starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

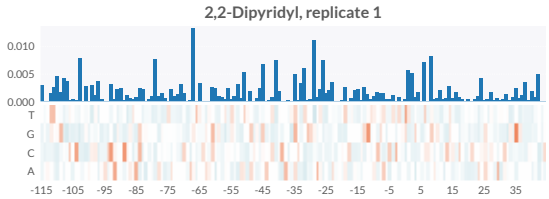
dgoRp

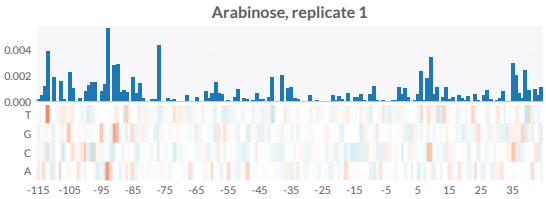

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

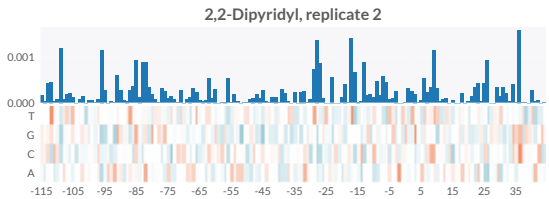
dgoRp

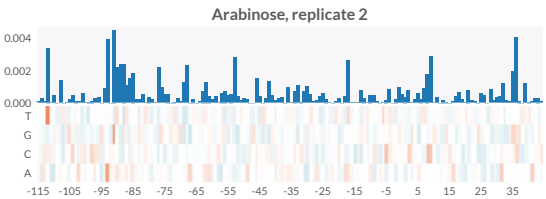

Medium Cold shock 19C, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

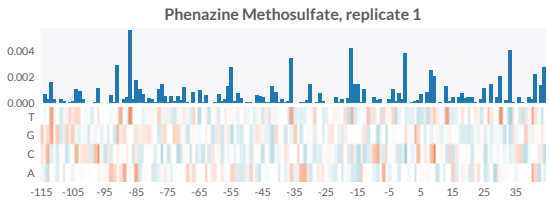

Gentamicin, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

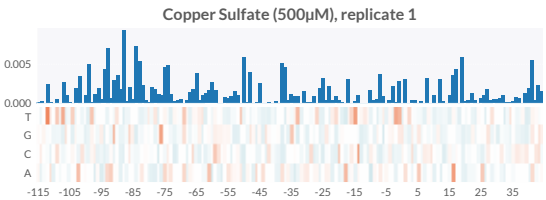

2,2-Dipyridyl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

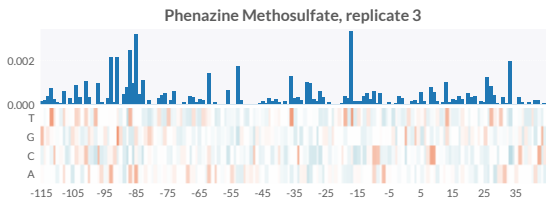

Arabinose, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

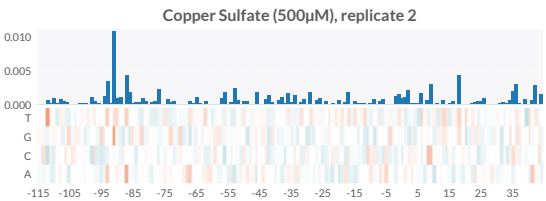

2,2-Dipyridyl, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

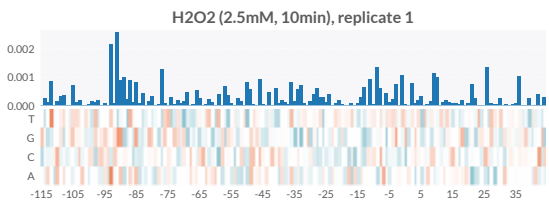

Arabinose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

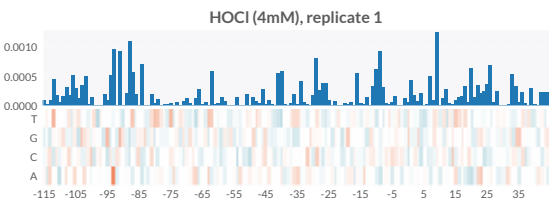

Phenazine Methosulfate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

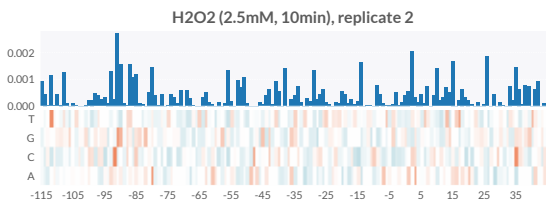

Copper Sulfate (500µM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

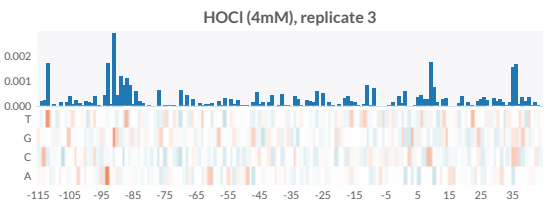

Phenazine Methosulfate, replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

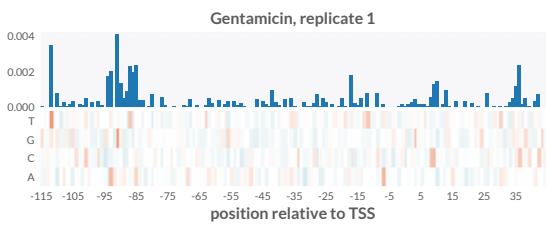

Copper Sulfate (500µM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

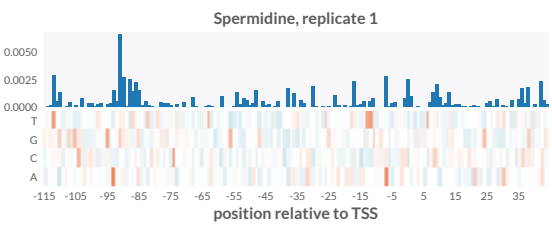

H2O2 (2.5mM, 10min), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

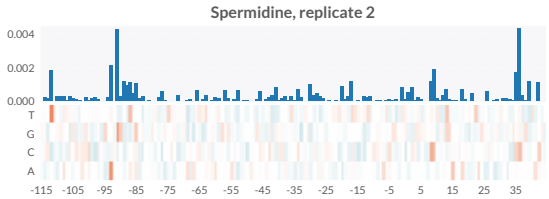

H2O2 (2.5mM, 10min), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

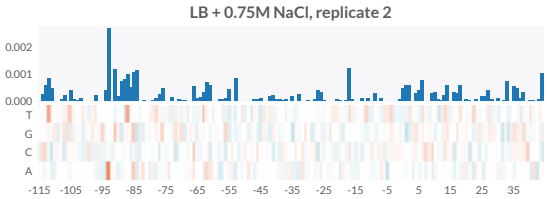

HOCl (4mM), replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

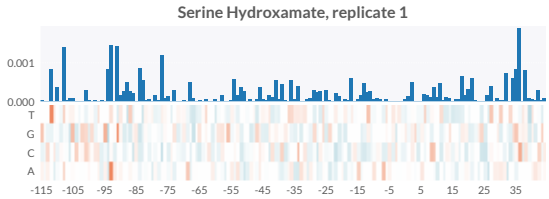

Gentamicin, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

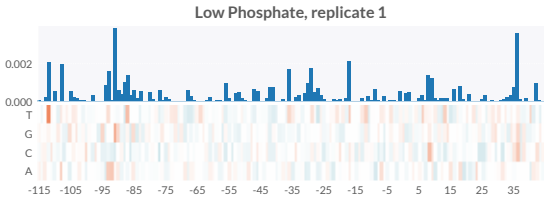

Spermidine, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

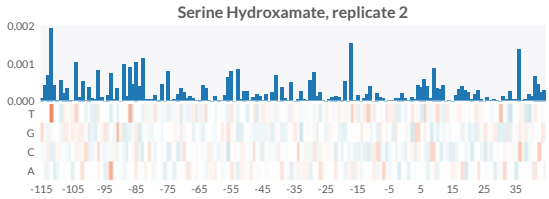
dgoRp

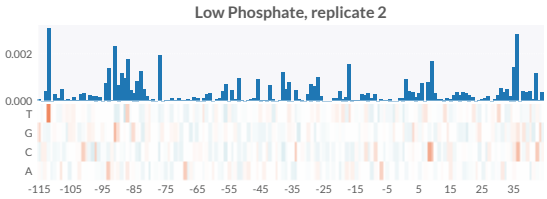

Spermidine, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

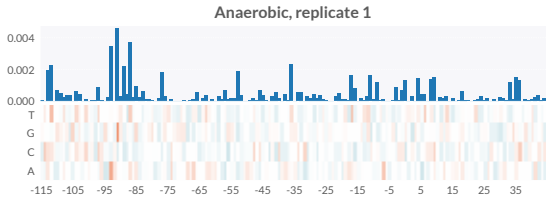

LB + 0.75M NaCl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

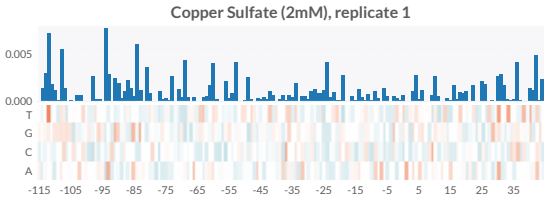

Serine Hydroxamate, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

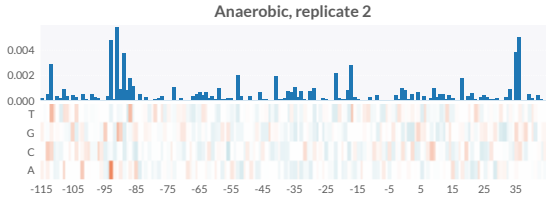

Low Phosphate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

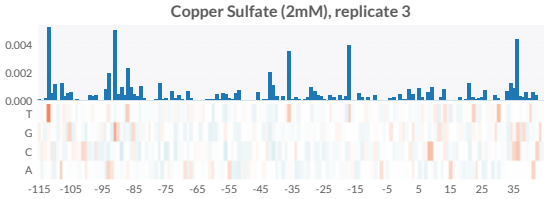

Serine Hydroxamate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

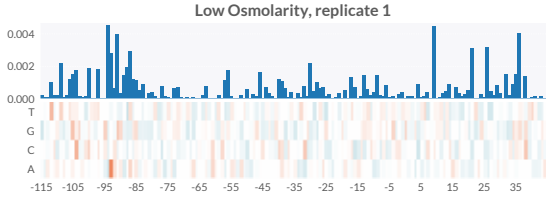

Low Phosphate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

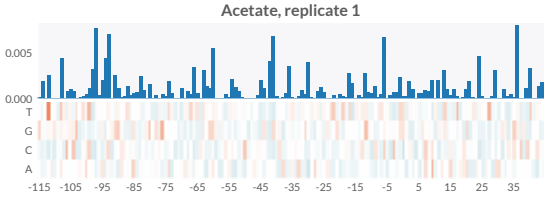

Anaerobic, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

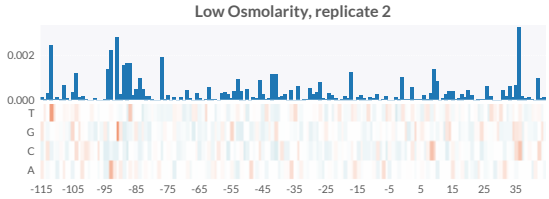

Copper Sulfate (2mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

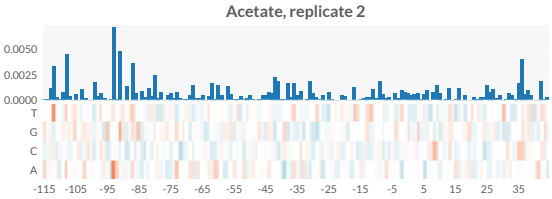

Anaerobic, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

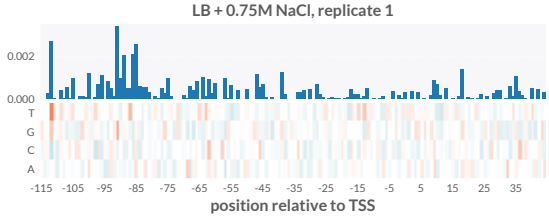

Copper Sulfate (2mM), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

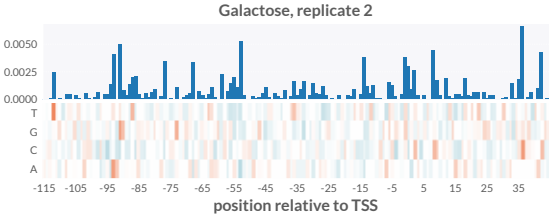

Low Osmolarity, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Low Osmolarity, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

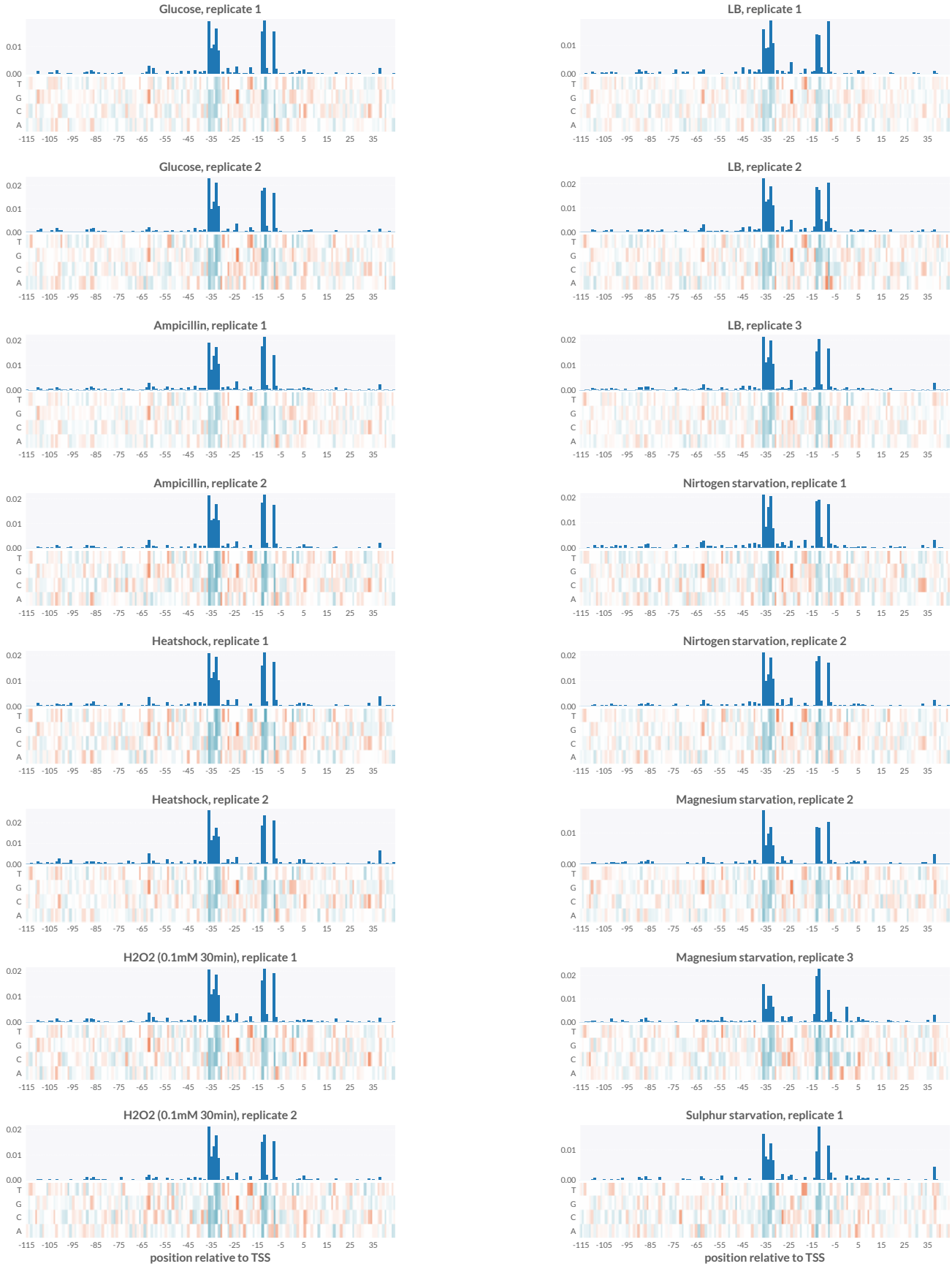

LB + 0.75M NaCl, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Galactose, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

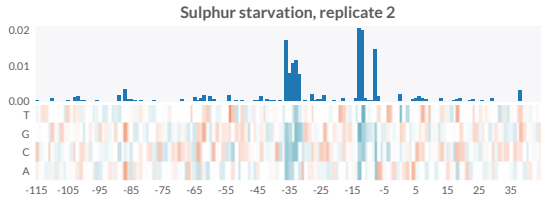
dgoRp

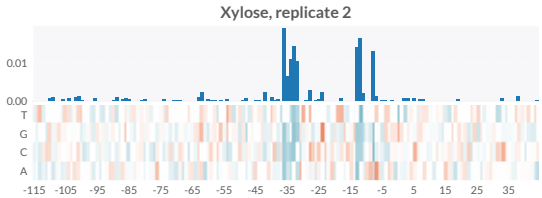

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

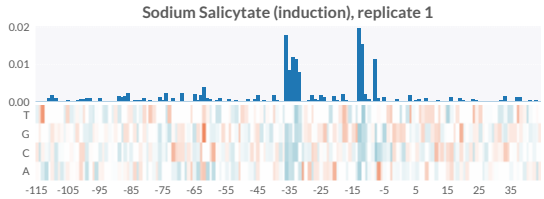
dicCp

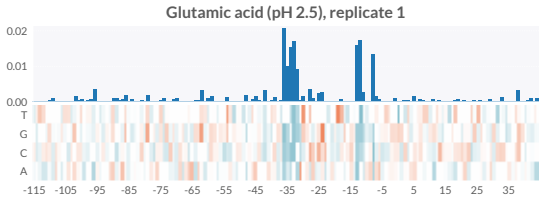

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
position relative to TSS
position relative to TSS

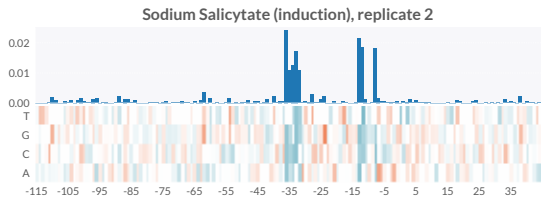
dicCp

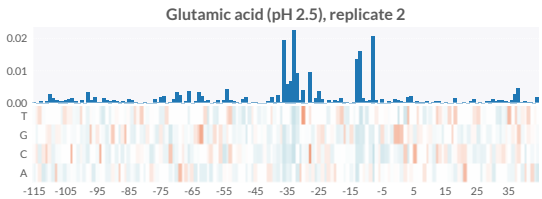

Sulphur starvation, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

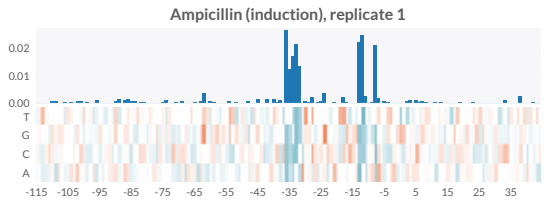

Xylose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

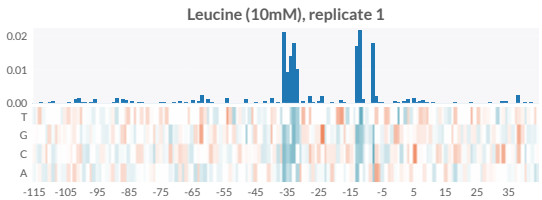

Sodium Salicytate (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

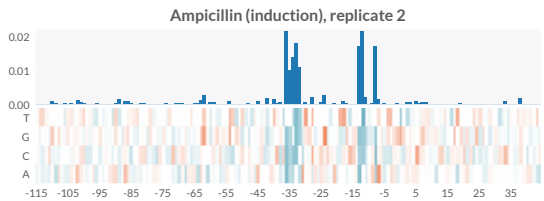

Glutamic acid (pH 2.5), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

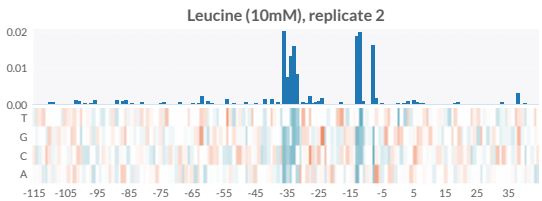

Sodium Salicytate (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

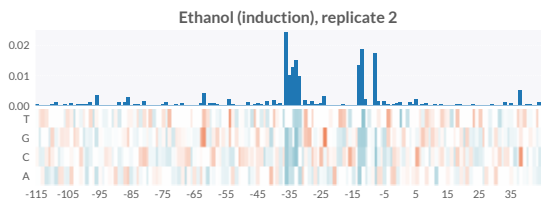

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

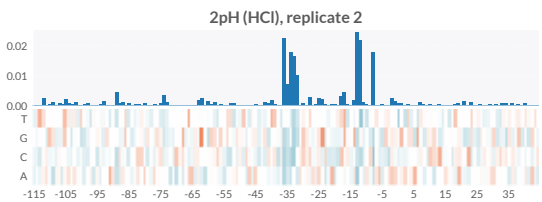

Ampicillin (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

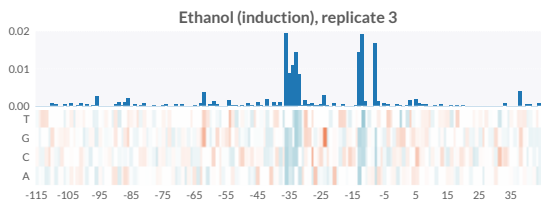

Leucine (10mM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

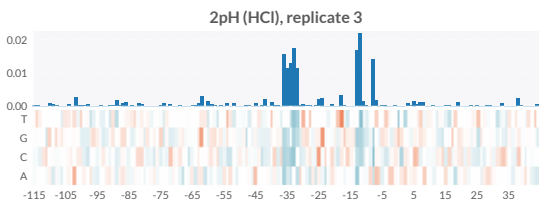

Ampicillin (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

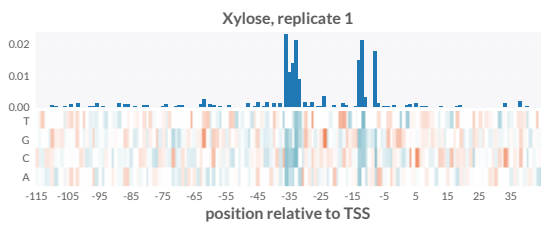

Leucine (10mM), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

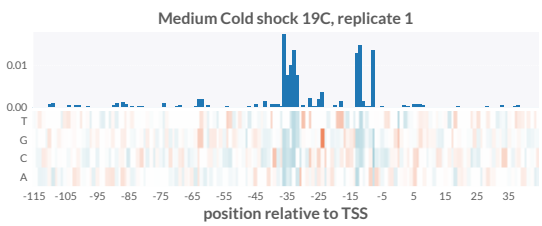

Ethanol (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

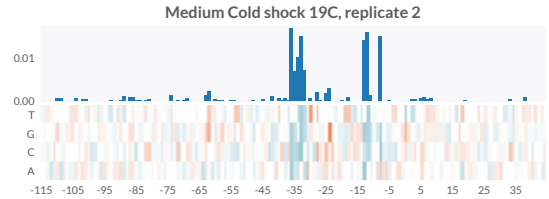

Ethanol (induction), replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

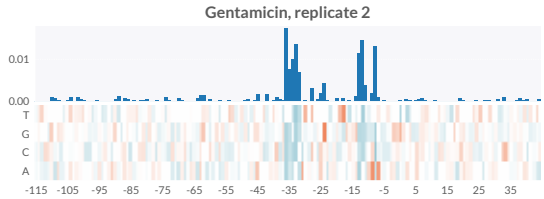

2pH (HCl), replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

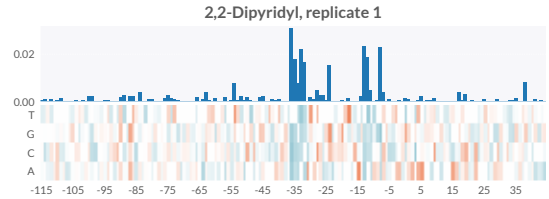

Xylose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

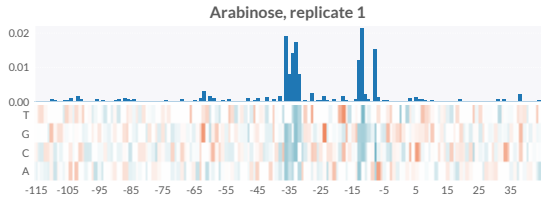

Medium Cold shock 19C, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

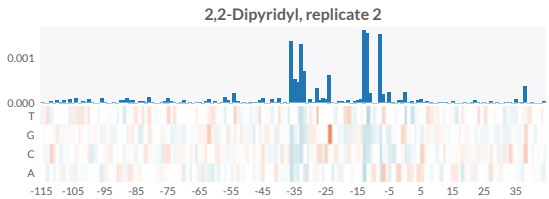
dicCp

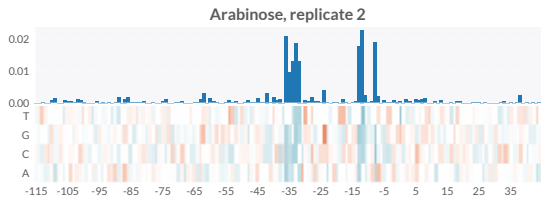

Medium Cold shock 19C, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

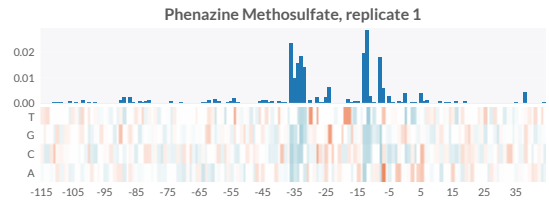

Gentamicin, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

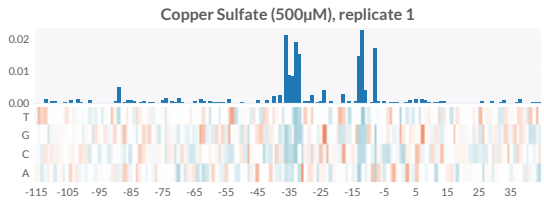

2,2-Dipyridyl, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

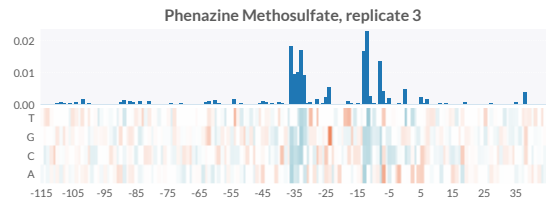

Arabinose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

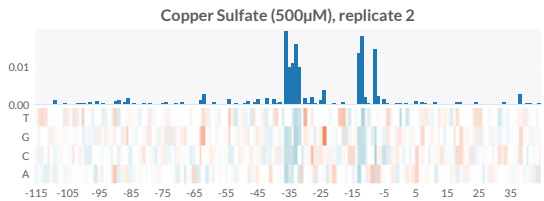

2,2-Dipyridyl, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

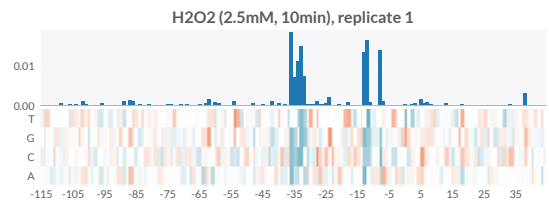

Arabinose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

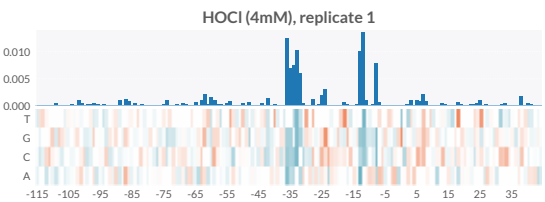

Phenazine Methosulfate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

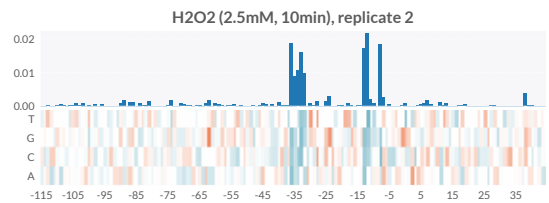

Copper Sulfate (500µM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

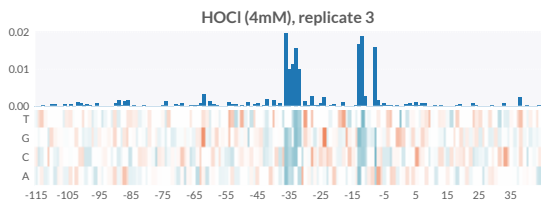

Phenazine Methosulfate, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

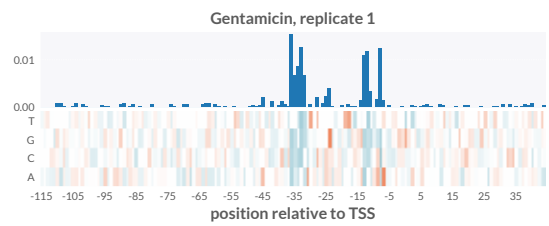

Copper Sulfate (500µM), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

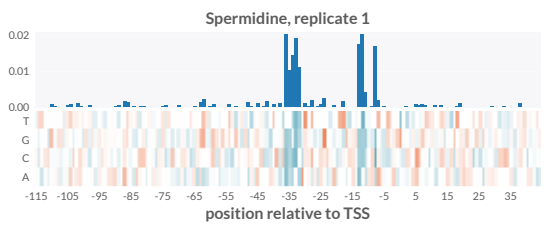

H2O2 (2.5mM, 10min), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

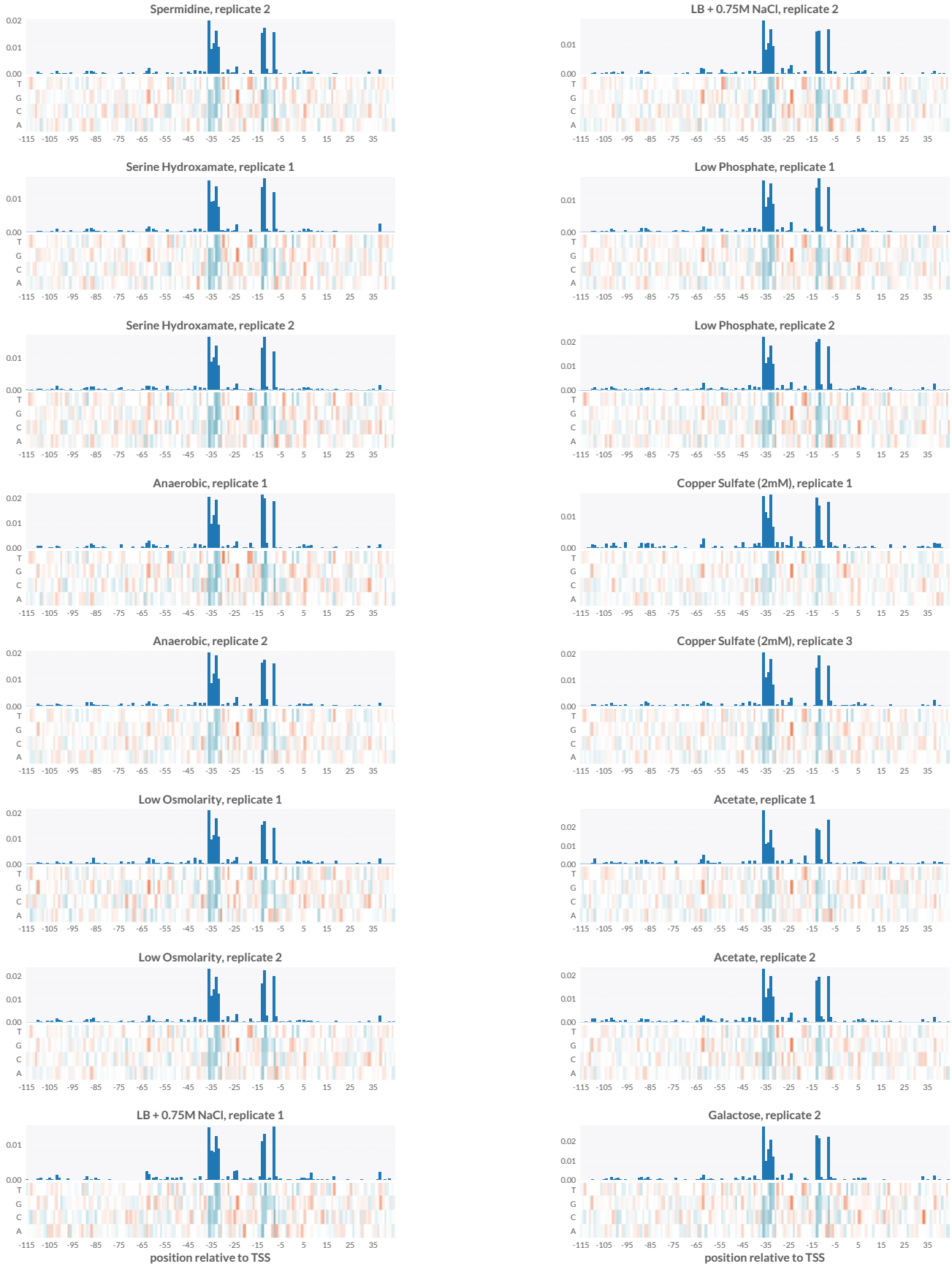

H2O2 (2.5mM, 10min), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

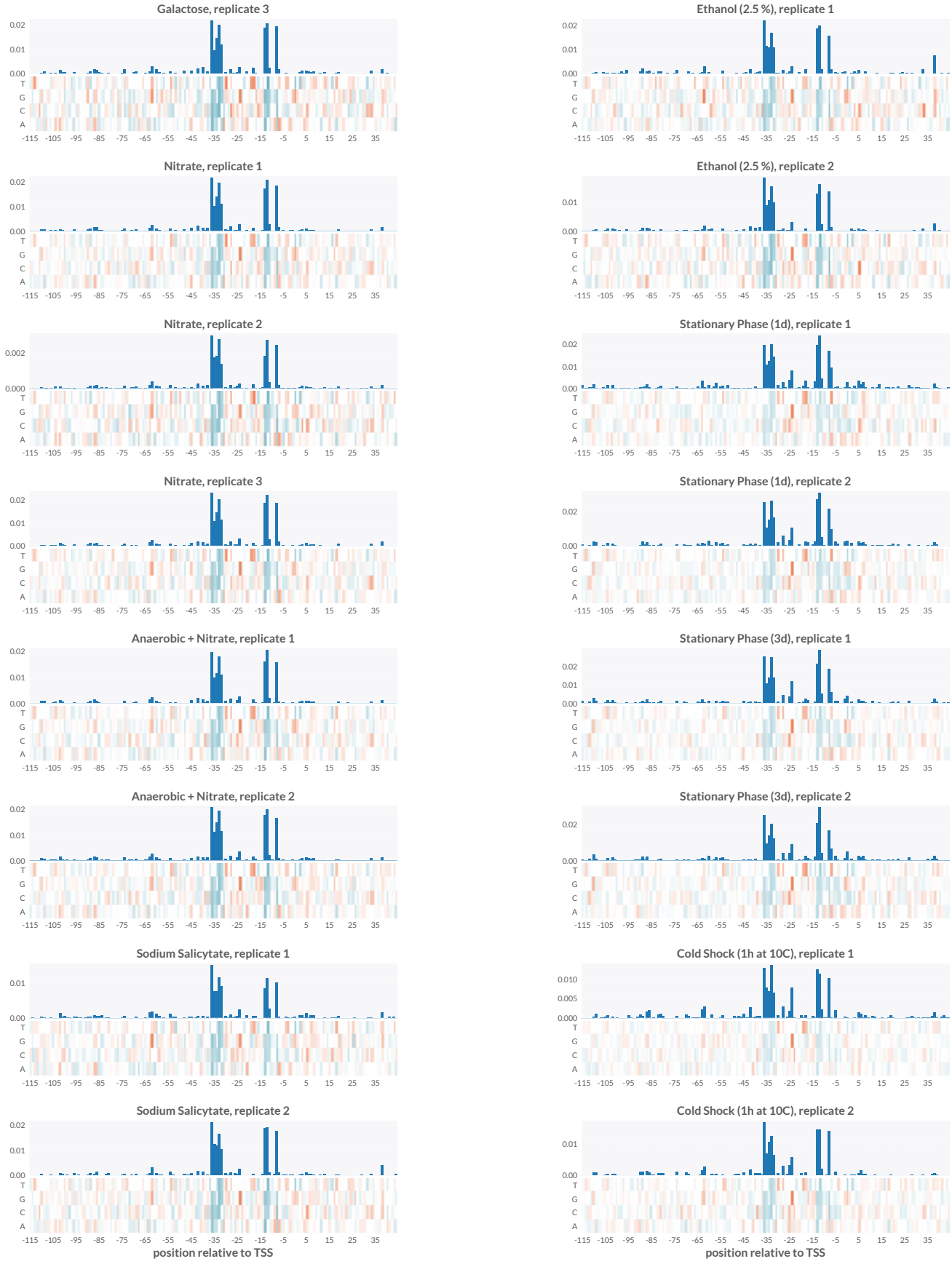

Gentamicin, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Spermidine, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

dicCp


Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
position relative to TSS
position relative to TSS

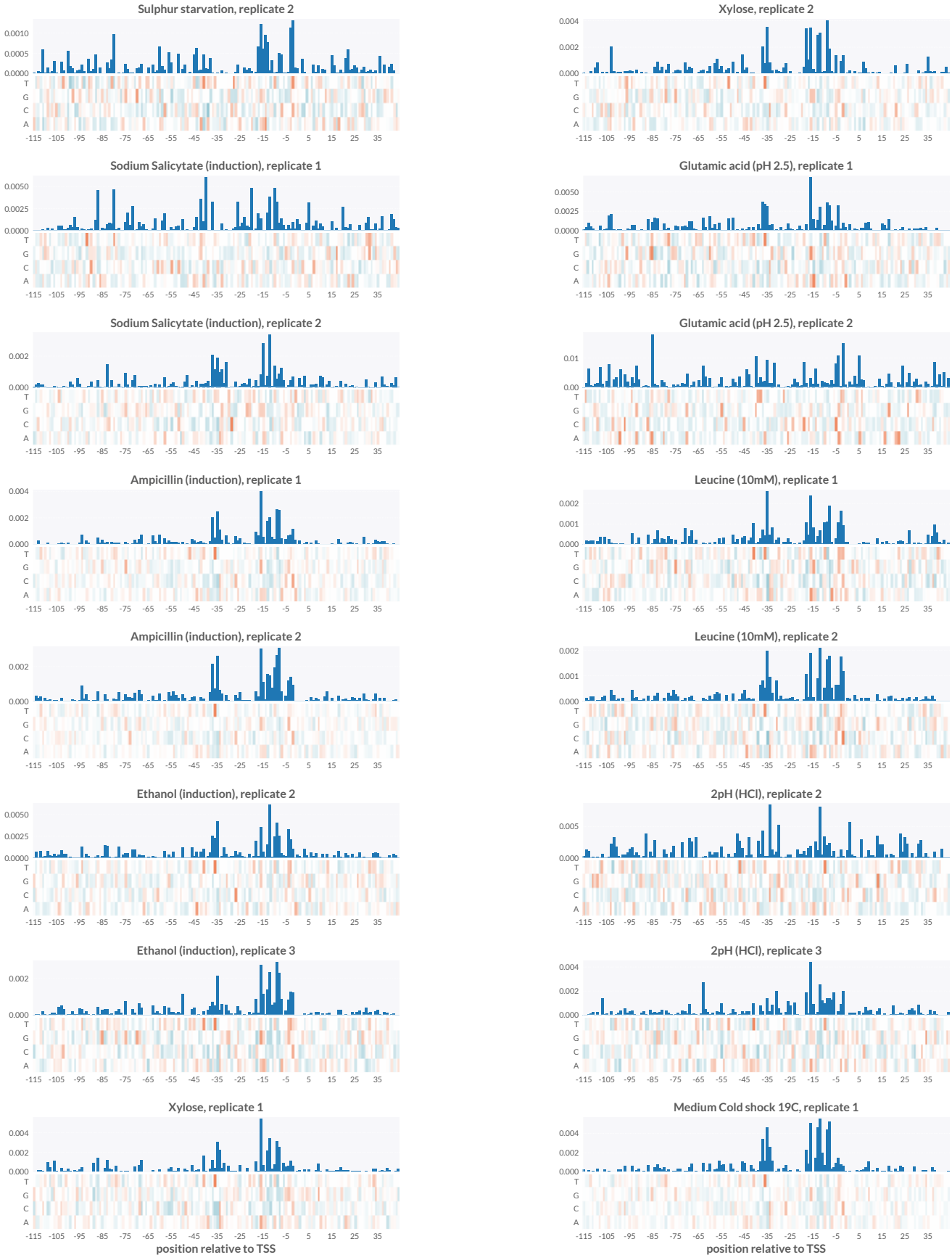
dicCp


Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

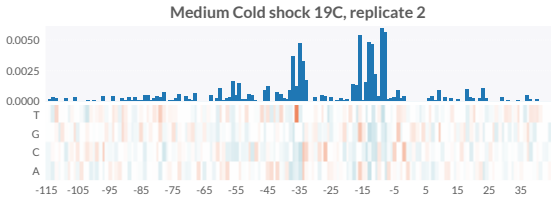
dinQp

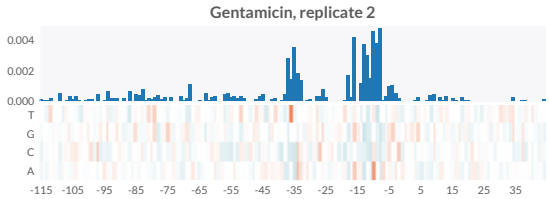

Glucose, replicate 1
Glucose, replicate 2
Ampicillin, replicate 1
Ampicillin, replicate 2
Heatshock, replicate 1
Heatshock, replicate 2
H2O2 (0.1mM 30min), replicate 1
H2O2 (0.1mM 30min), replicate 2
LB, replicate 1
LB, replicate 2
LB, replicate 3
Nirtogen starvation, replicate 1
Nirtogen starvation, replicate 2
Magnesium starvation, replicate 2
Magnesium starvation, replicate 3
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

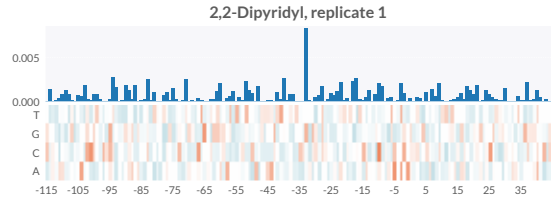
dinQp

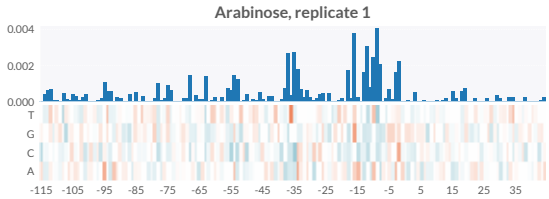

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

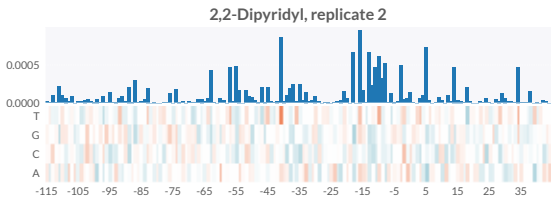
dinQp

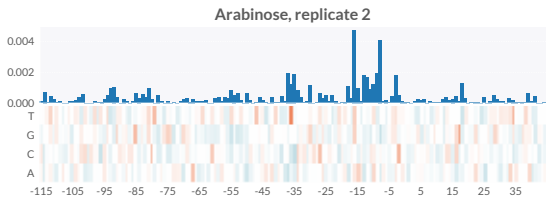

Medium Cold shock 19C, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

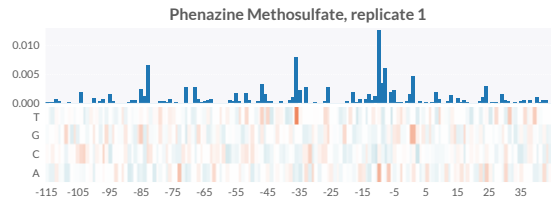

Gentamicin, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

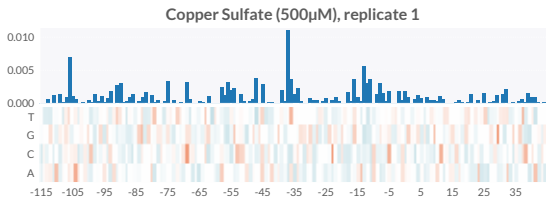

2,2-Dipyridyl, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

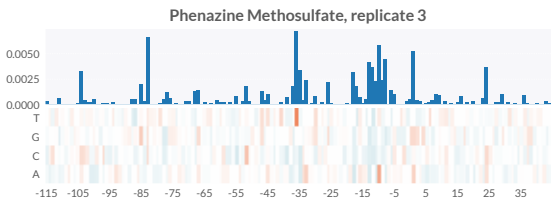

Arabinose, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

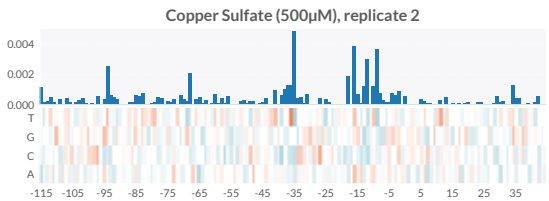

2,2-Dipyridyl, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

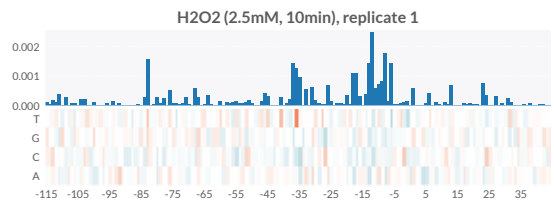

Arabinose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

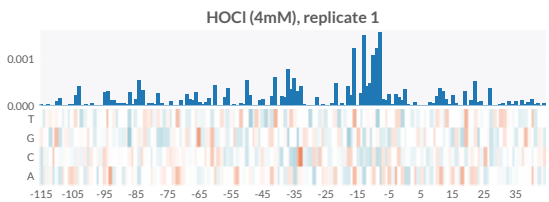

Phenazine Methosulfate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

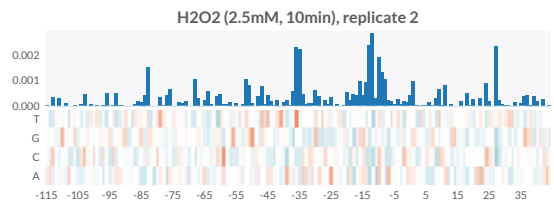

Copper Sulfate (500µM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

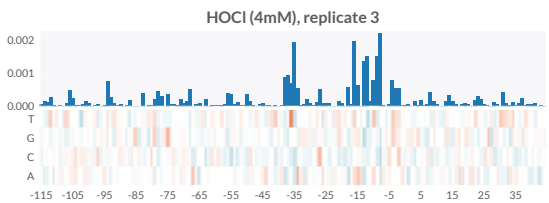

Phenazine Methosulfate, replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

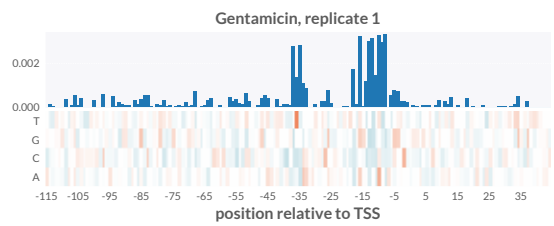

Copper Sulfate (500µM), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

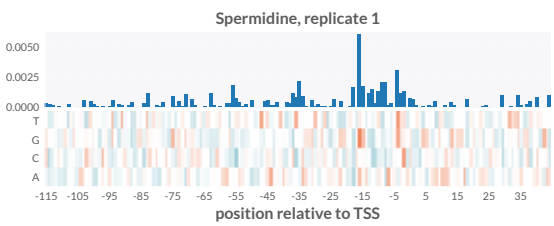

H2O2 (2.5mM, 10min), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

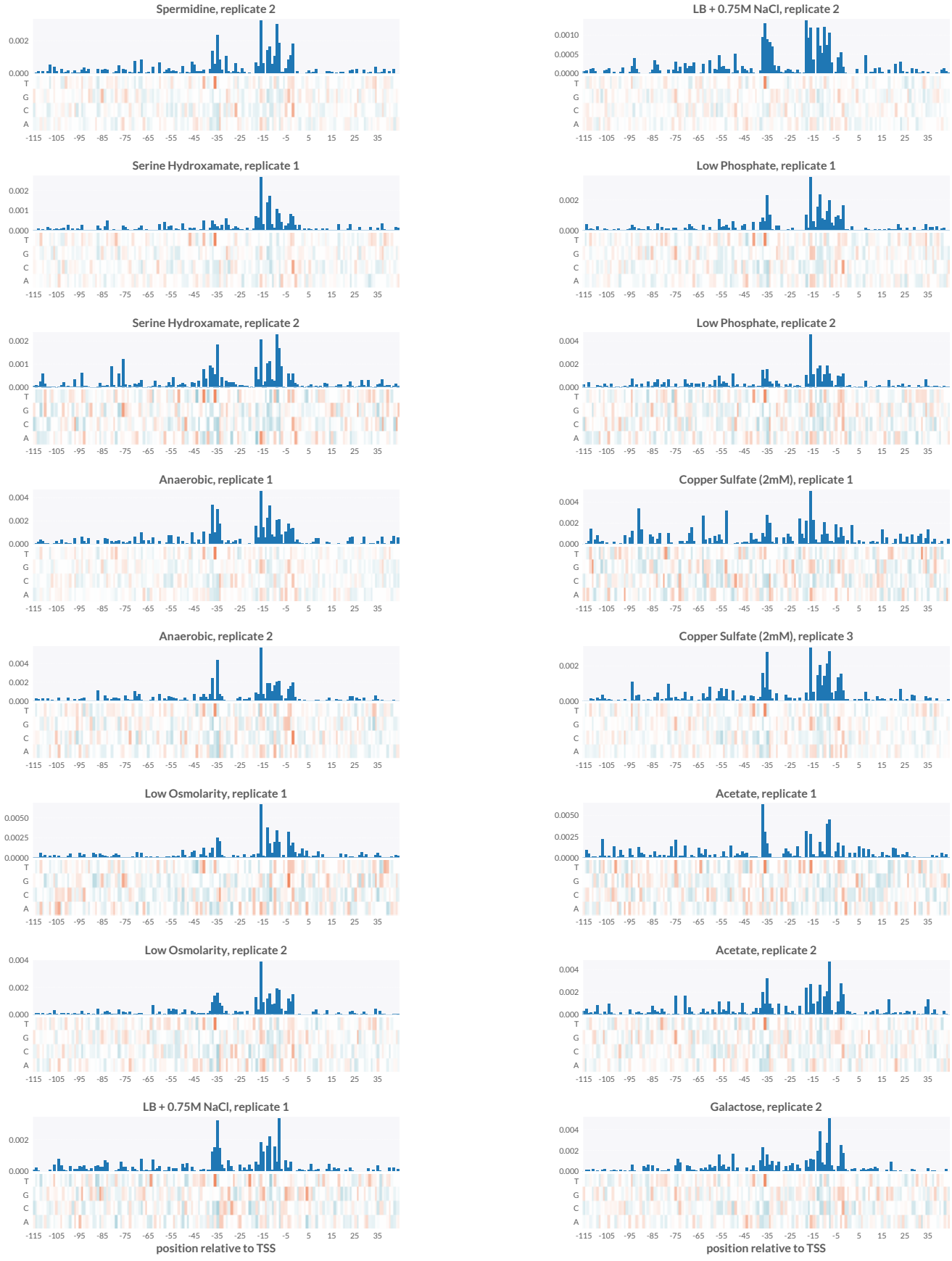

H2O2 (2.5mM, 10min), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

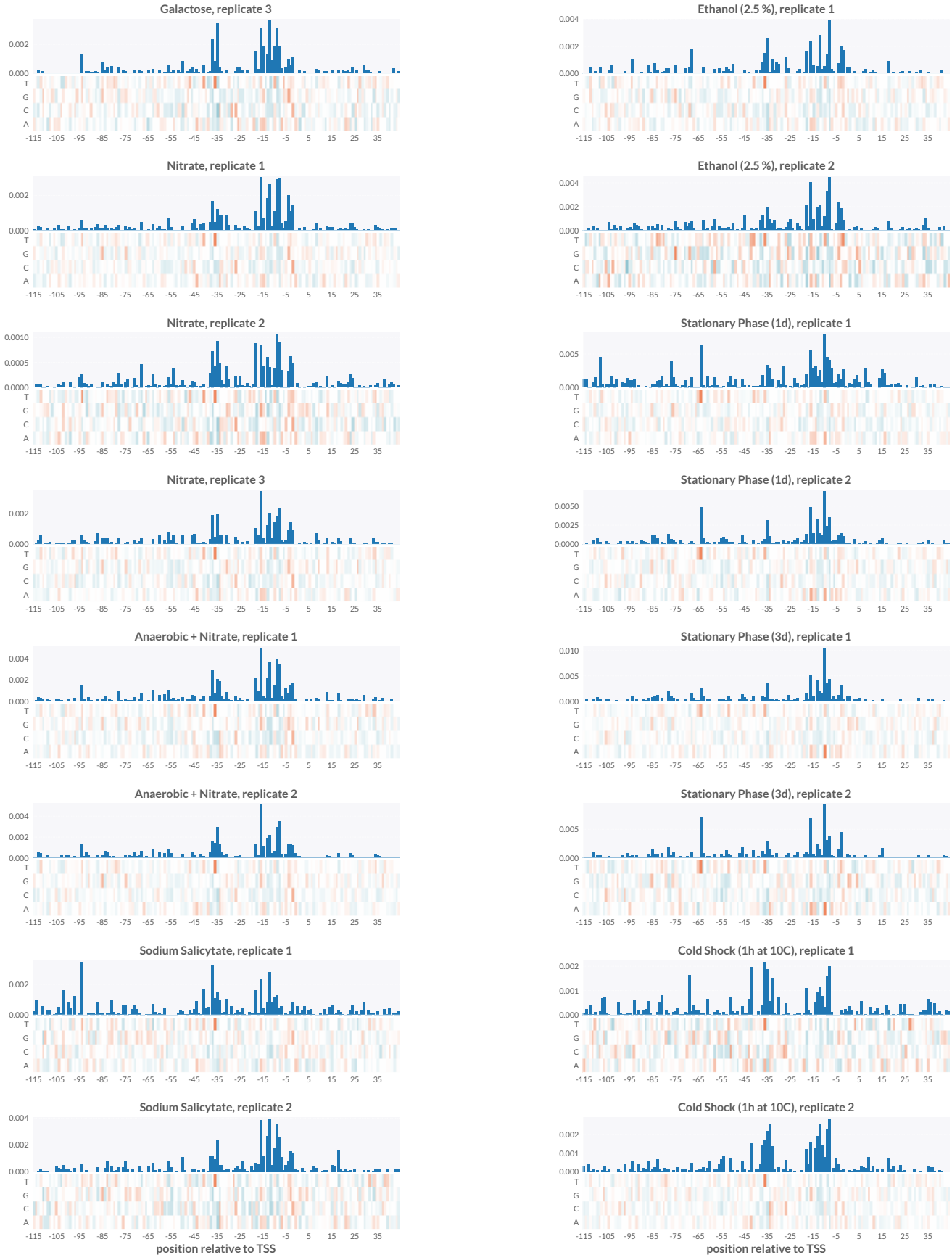

Gentamicin, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Spermidine, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

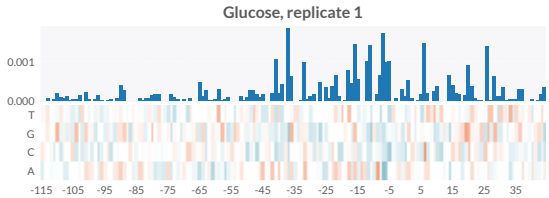
dinQp

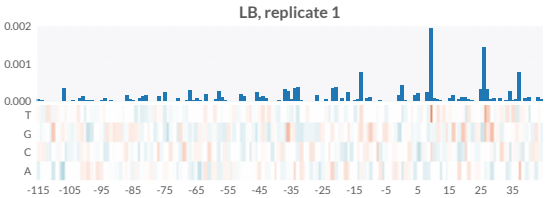

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

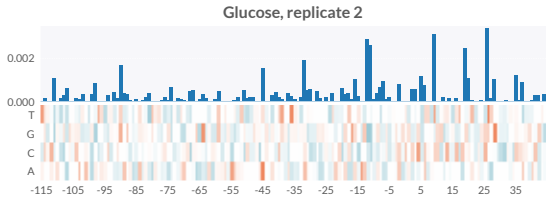
dinQp

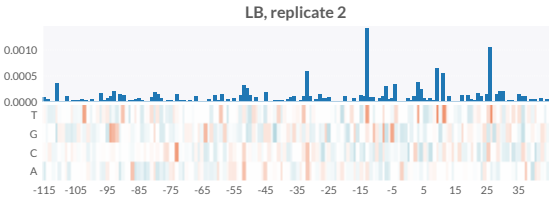

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

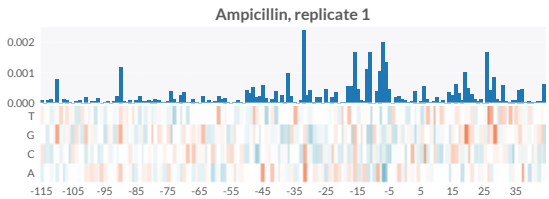
ecnBp

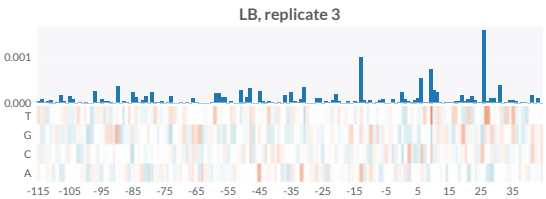

Glucose, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

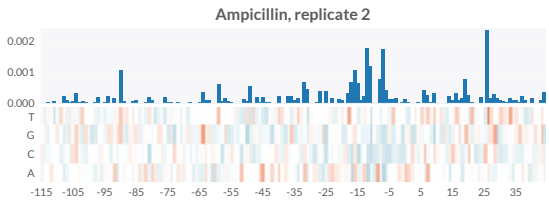

LB, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

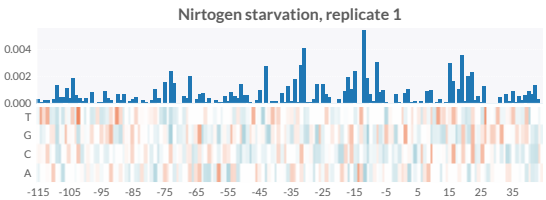

Glucose, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

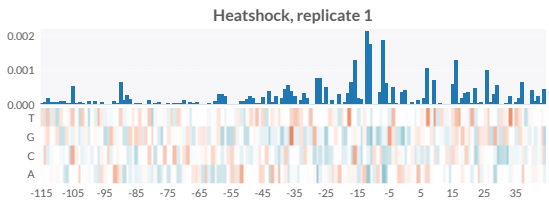

LB, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

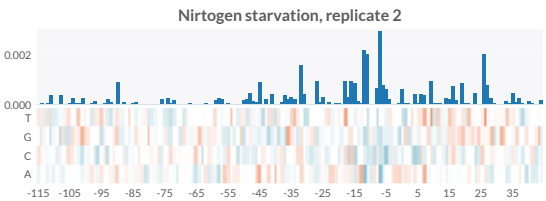

Ampicillin, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

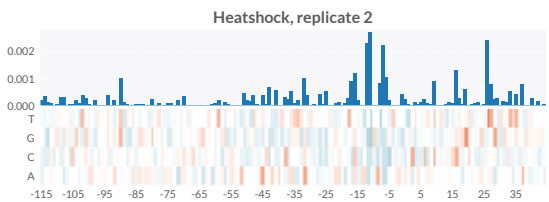

LB, replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

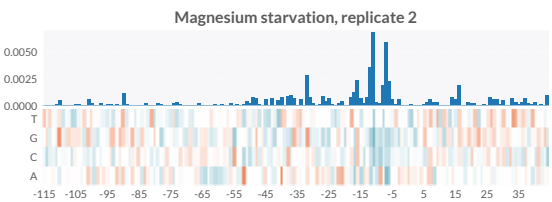

Ampicillin, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

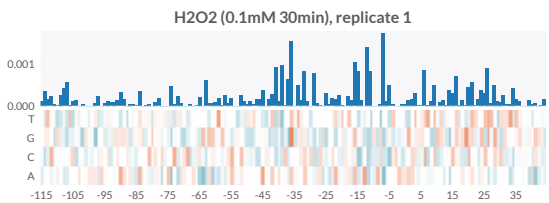

Nirtogen starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

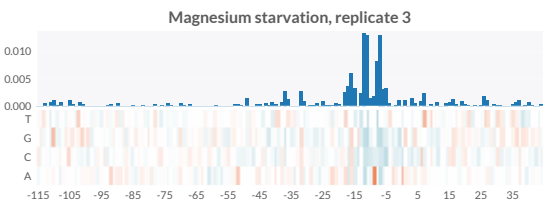

Heatshock, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

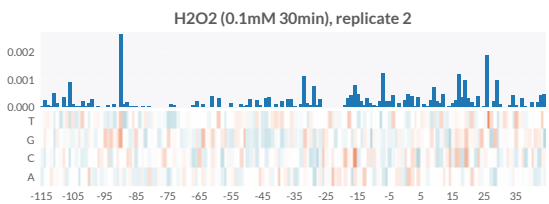

Nirtogen starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

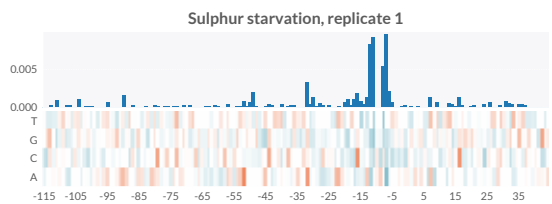

Heatshock, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

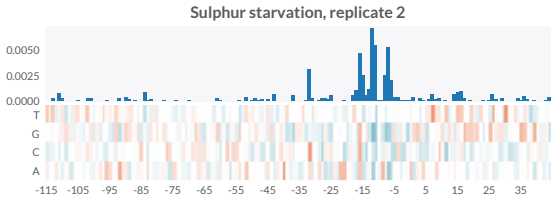

H2O2 (0.1mM 30min), replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

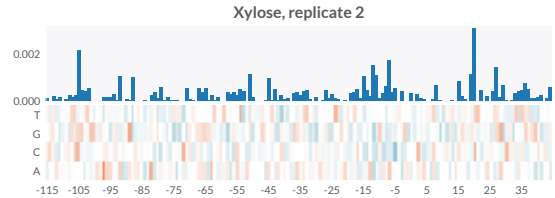

Magnesium starvation, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

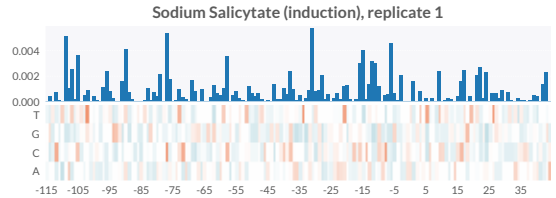

H2O2 (0.1mM 30min), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

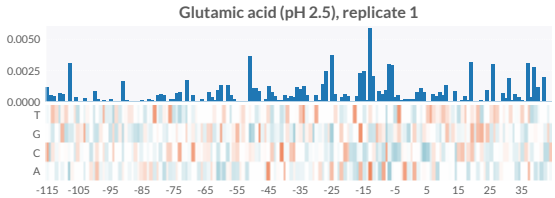

Sulphur starvation, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

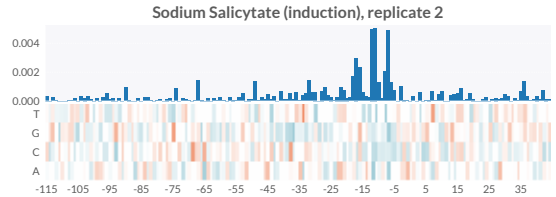
ecnBp

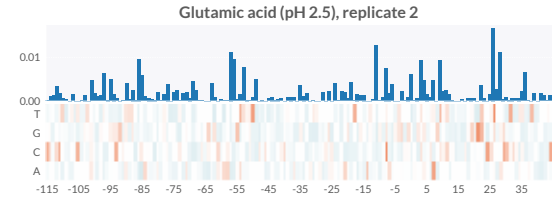

Sulphur starvation, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

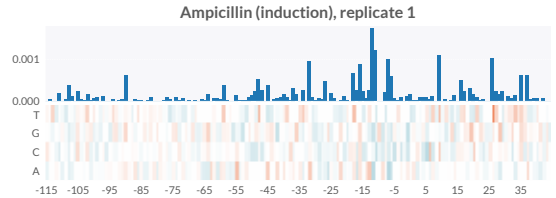

Xylose, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

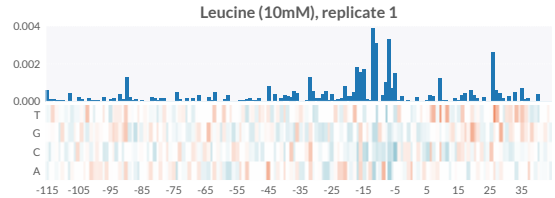

Sodium Salicytate (induction), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

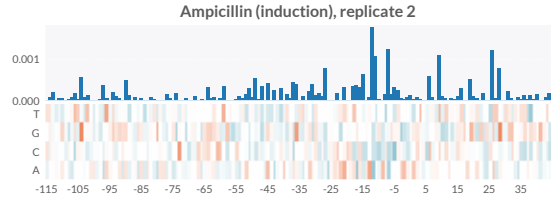

Glutamic acid (pH 2.5), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

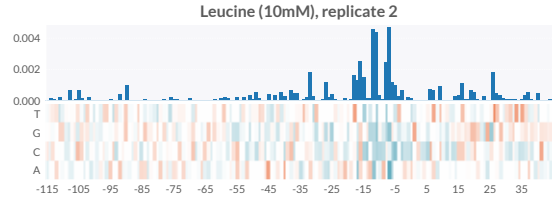

Sodium Salicytate (induction), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

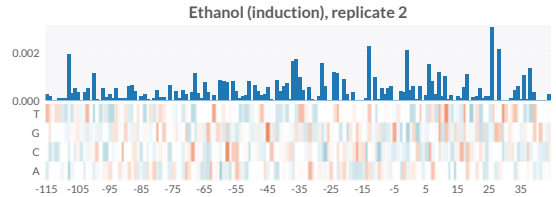

Glutamic acid (pH 2.5), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

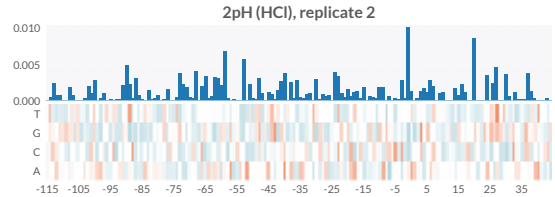

Ampicillin (induction), replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

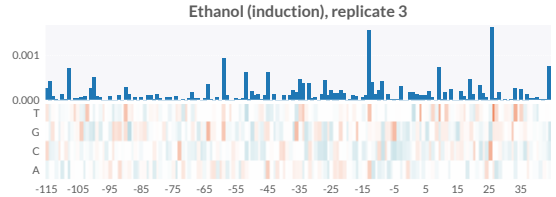

Leucine (10mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

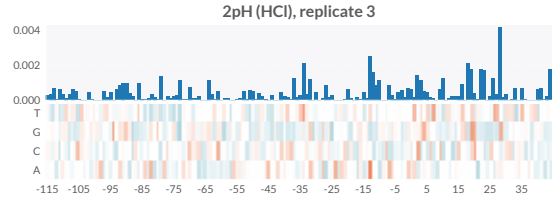

Ampicillin (induction), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

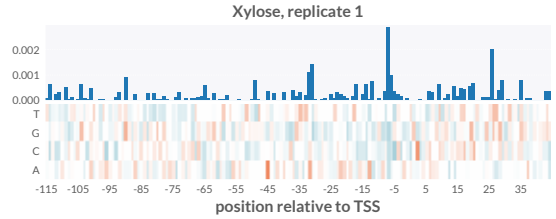

Leucine (10mM), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

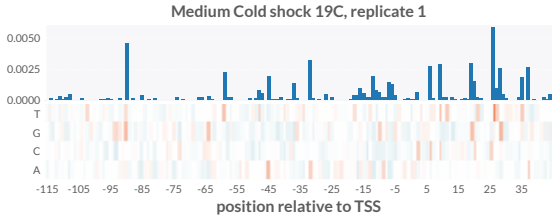

Ethanol (induction), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

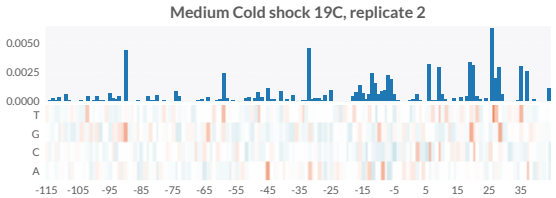

Ethanol (induction), replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

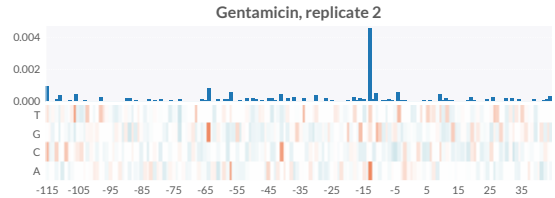

2pH (HCl), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

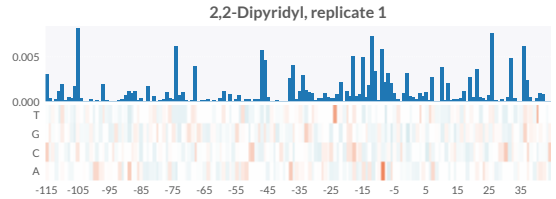

Xylose, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

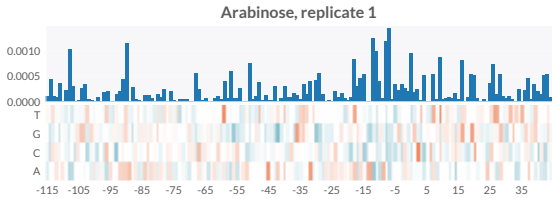

Medium Cold shock 19C, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

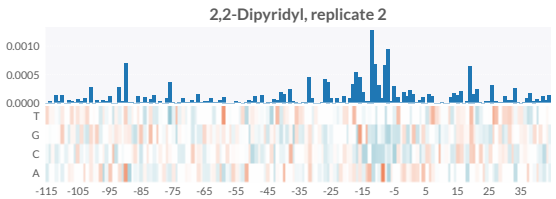
ecnBp

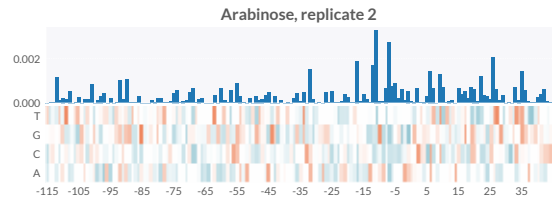

Medium Cold shock 19C, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

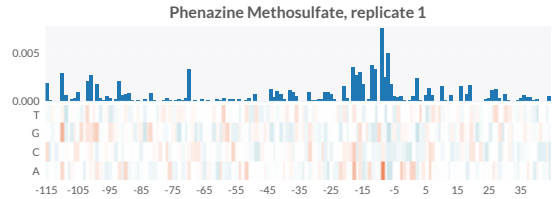

Gentamicin, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

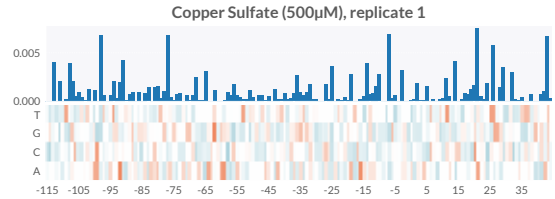

2,2-Dipyridyl, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

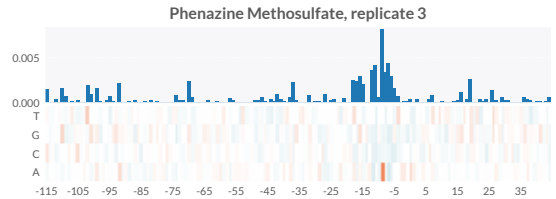

Arabinose, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

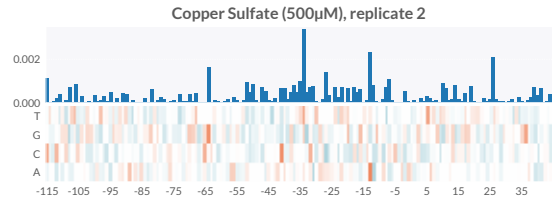

2,2-Dipyridyl, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

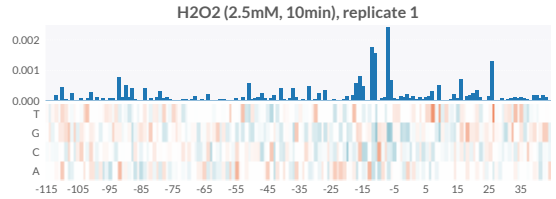

Arabinose, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

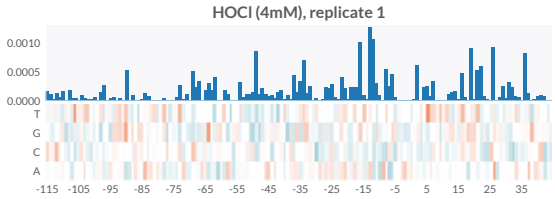

Phenazine Methosulfate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

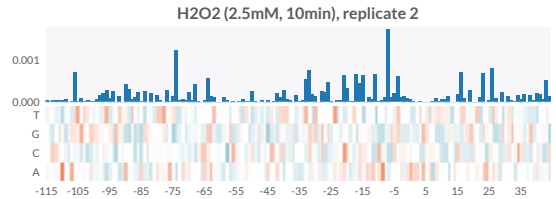

Copper Sulfate (500µM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

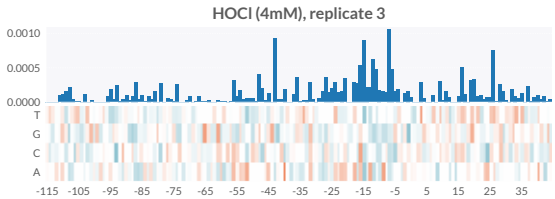

Phenazine Methosulfate, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

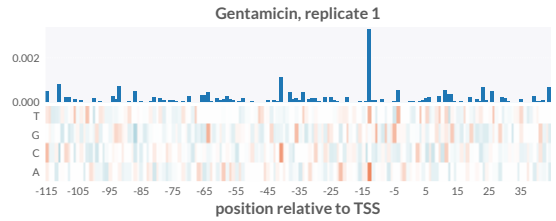

Copper Sulfate (500µM), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

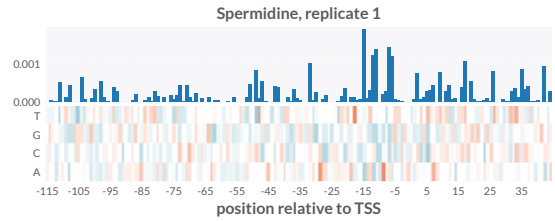

H2O2 (2.5mM, 10min), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


H2O2 (2.5mM, 10min), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Gentamicin, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Spermidine, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

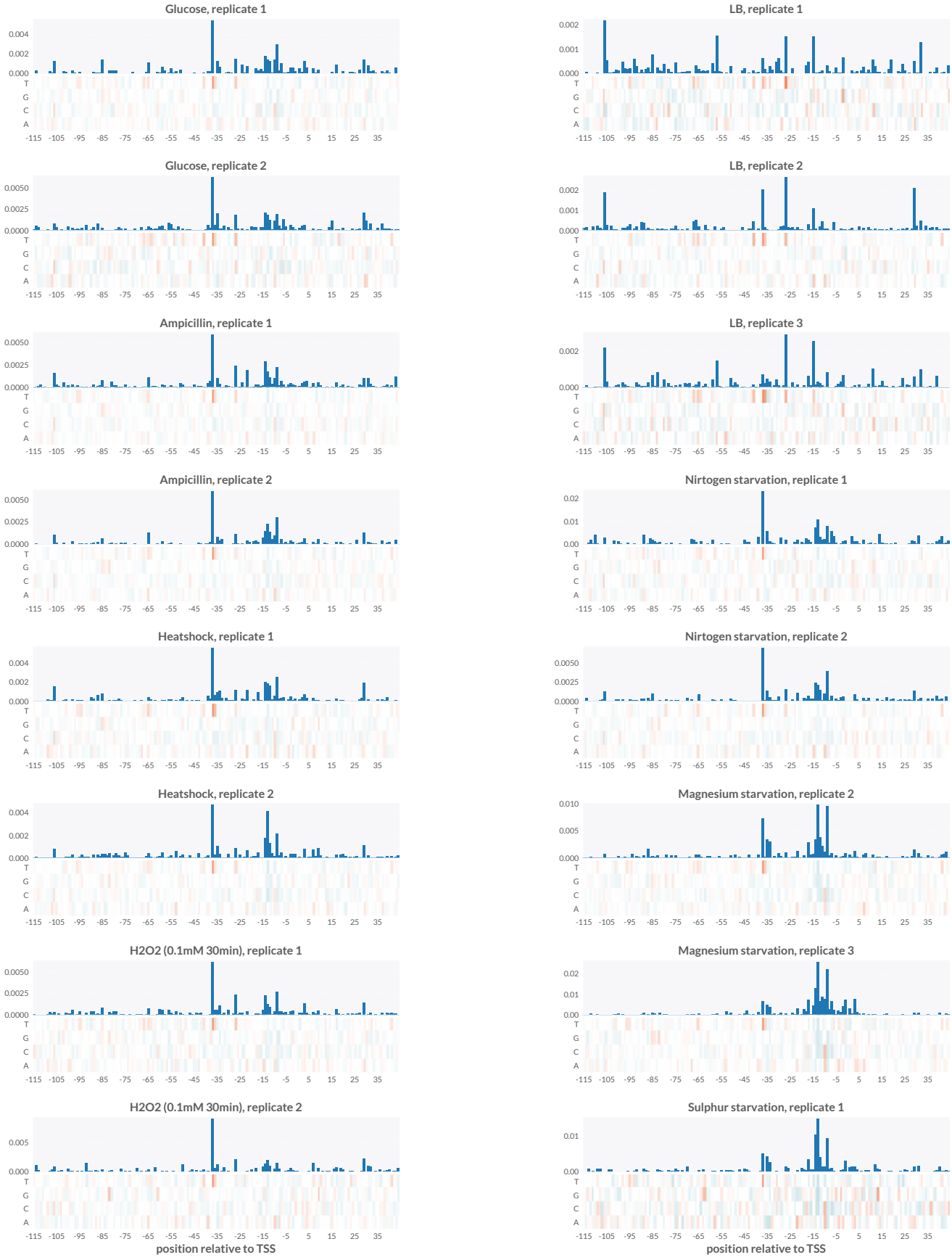
ecnBp


Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

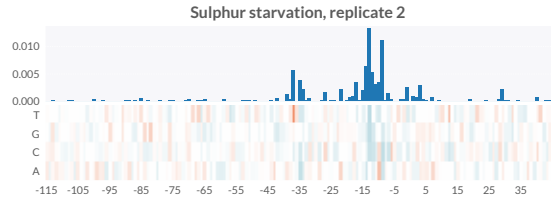
ecnBp

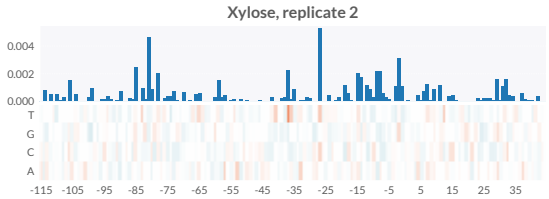

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

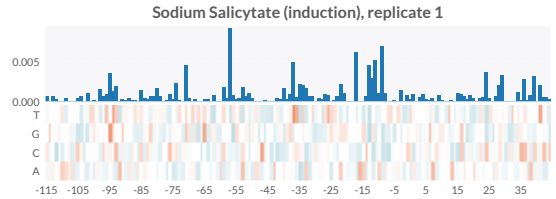
elaBp

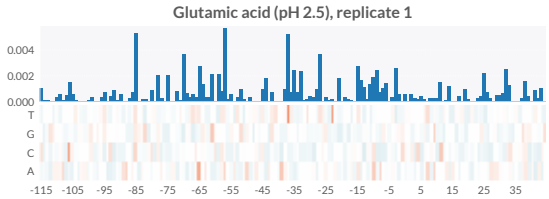

Glucose, replicate 1
Glucose, replicate 2
Ampicillin, replicate 1
Ampicillin, replicate 2
Heatshock, replicate 1
Heatshock, replicate 2
H2O2 (0.1mM 30min), replicate 1
H2O2 (0.1mM 30min), replicate 2
LB, replicate 1
LB, replicate 2
LB, replicate 3
Nirtogen starvation, replicate 1
Nirtogen starvation, replicate 2
Magnesium starvation, replicate 2
Magnesium starvation, replicate 3
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

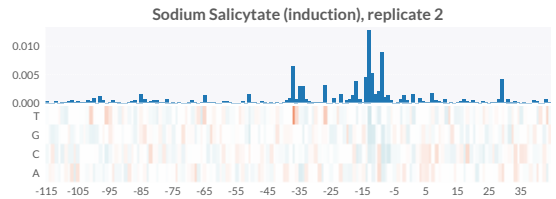
elaBp

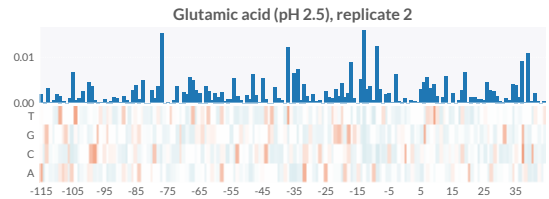

Sulphur starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

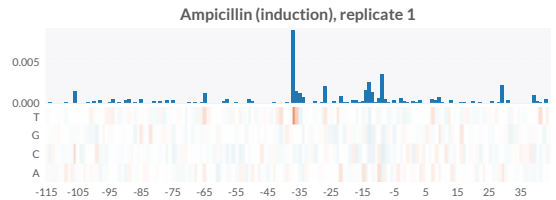

Xylose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

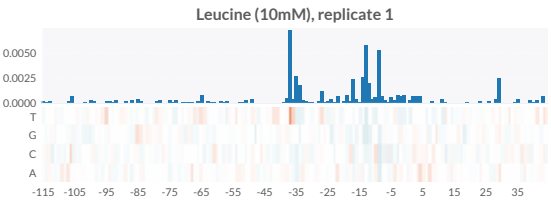

Sodium Salicytate (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

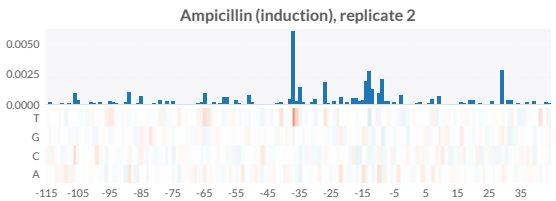

Glutamic acid (pH 2.5), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

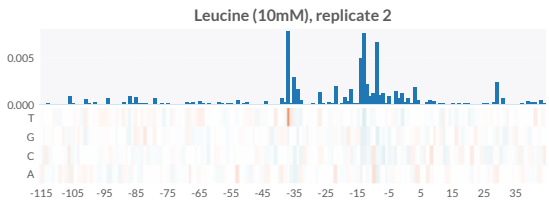

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

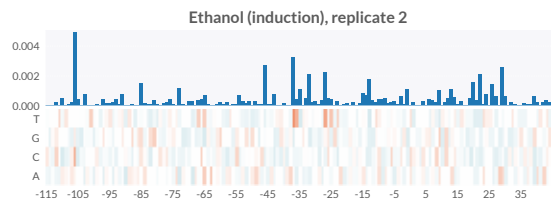

Glutamic acid (pH 2.5), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

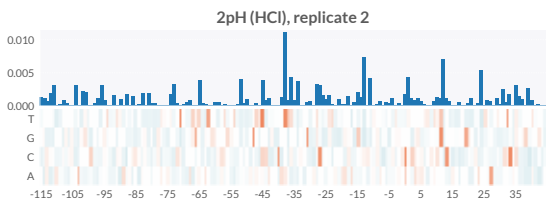

Ampicillin (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

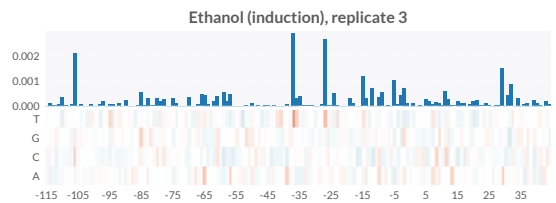

Leucine (10mM), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

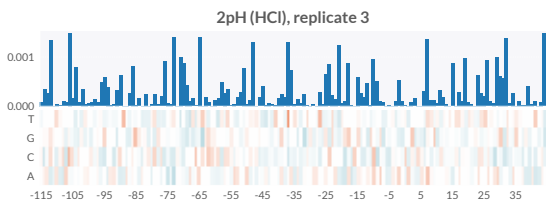

Ampicillin (induction), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

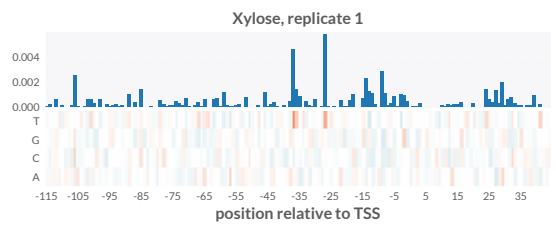

Leucine (10mM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

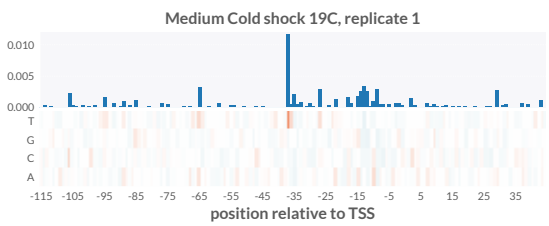

Ethanol (induction), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

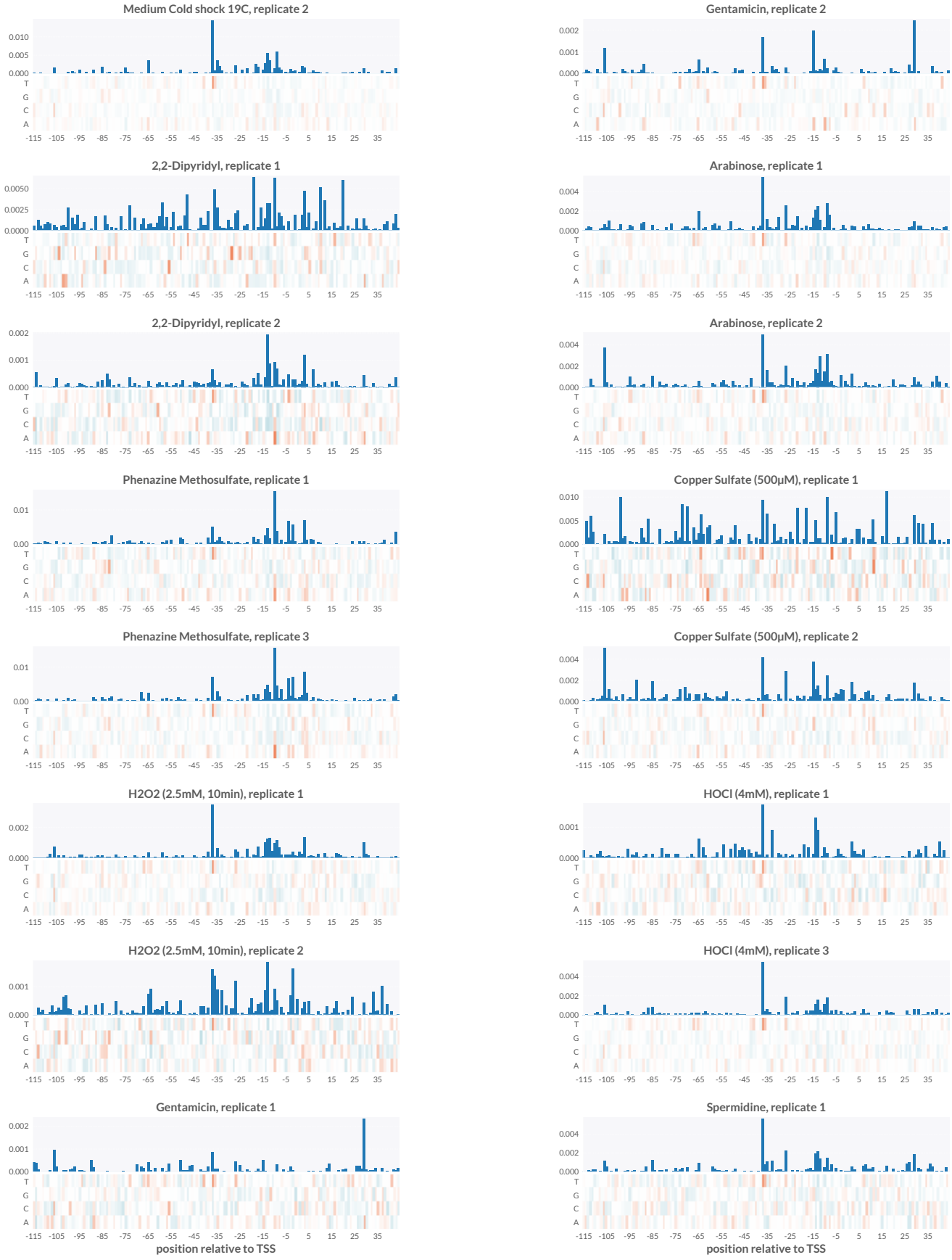

Ethanol (induction), replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Xylose, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Medium Cold shock 19C, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

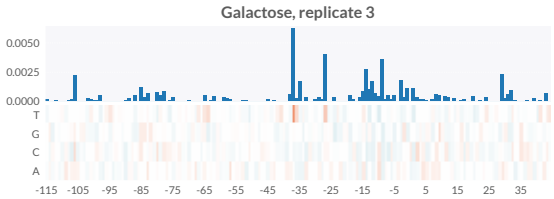
elaBp

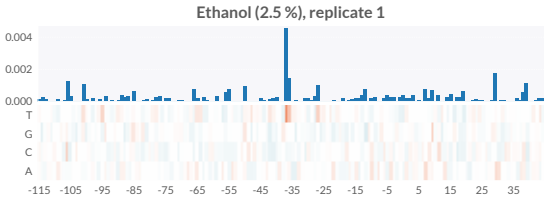

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

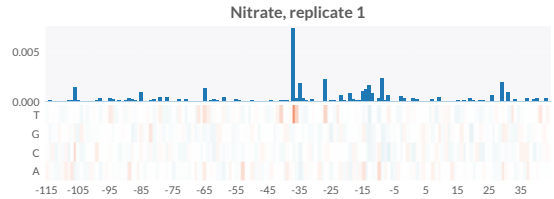
elaBp

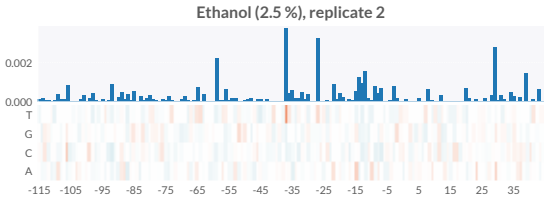

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

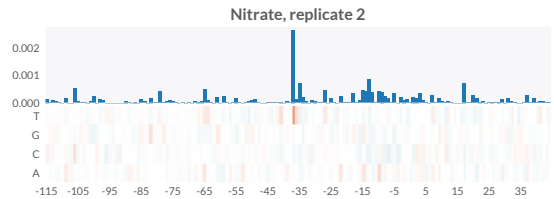
elaBp

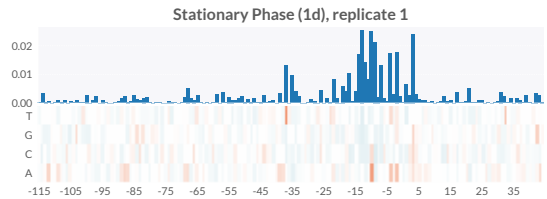

Galactose, replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

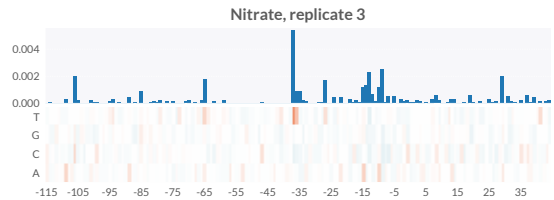

Ethanol (2.5 %), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

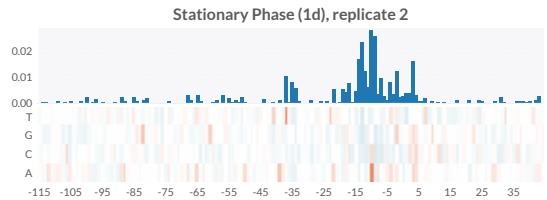

Nitrate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

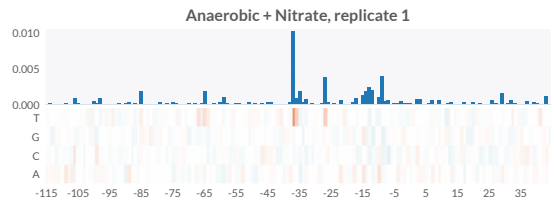

Ethanol (2.5 %), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

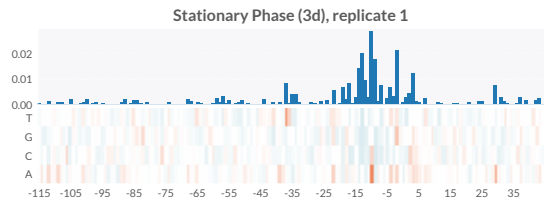

Nitrate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

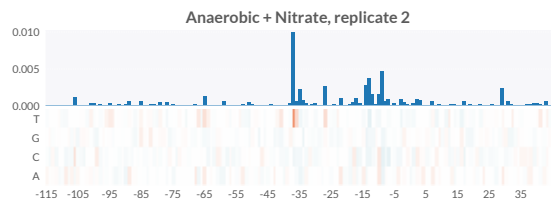

Stationary Phase (1d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

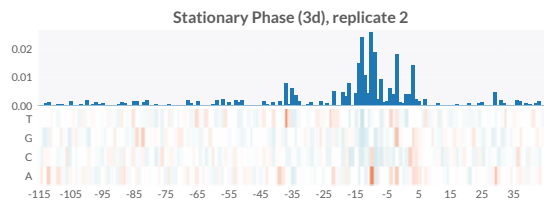

Nitrate, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

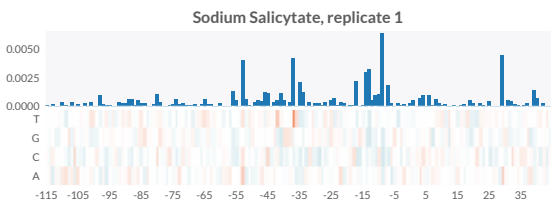

Stationary Phase (1d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

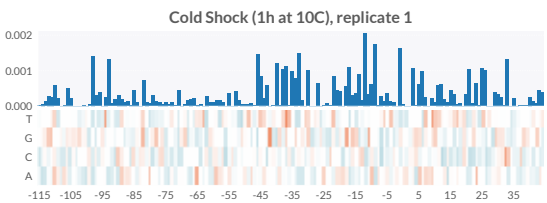

Anaerobic + Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

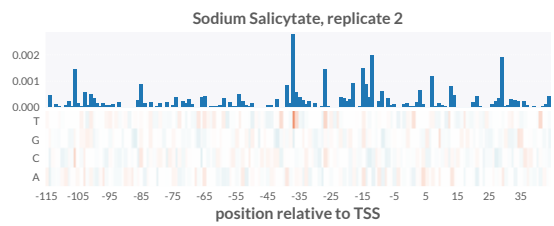

Stationary Phase (3d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

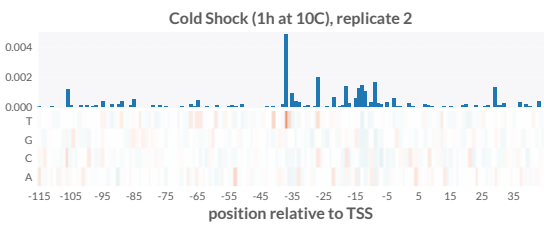

Anaerobic + Nitrate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

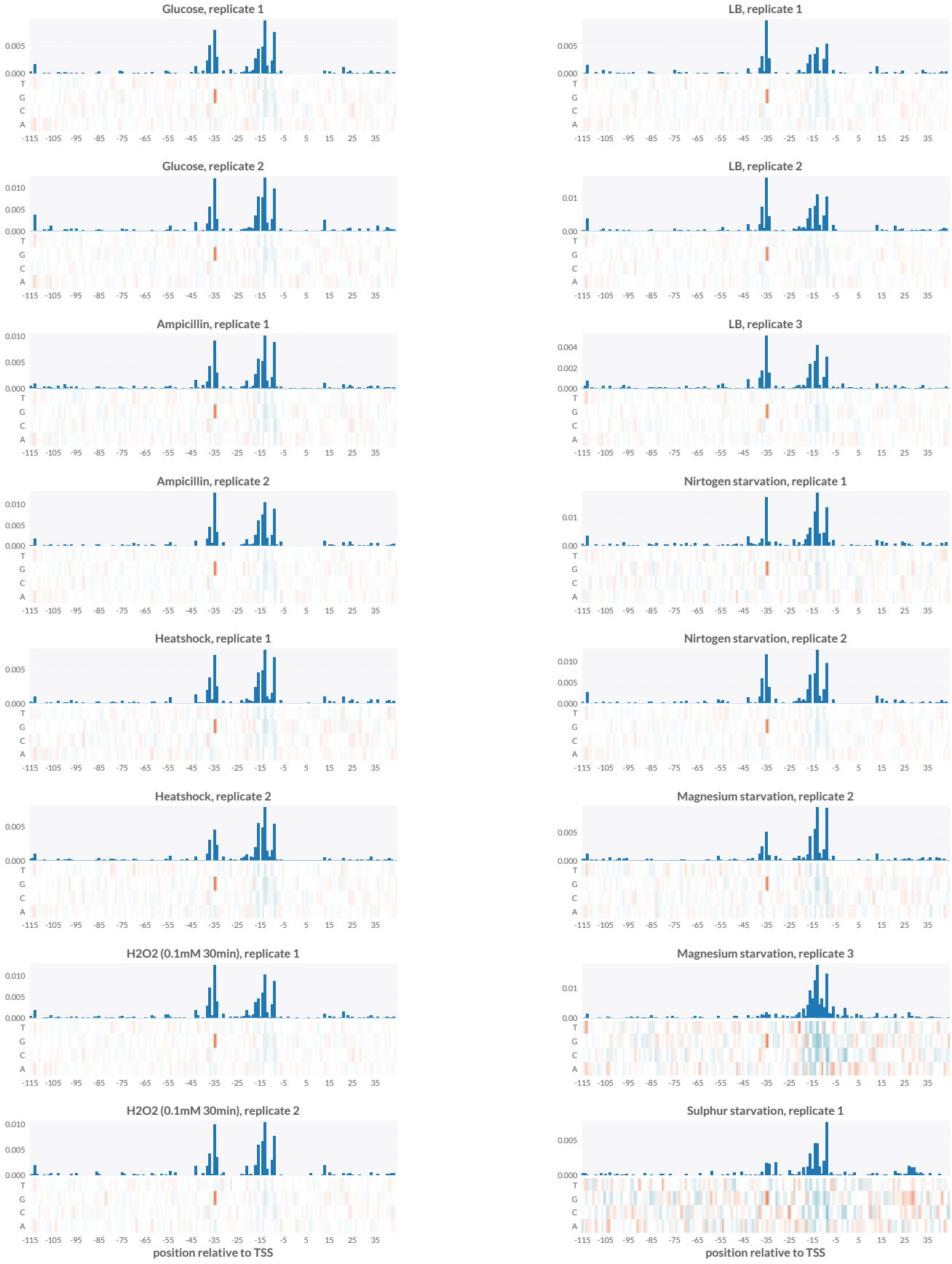

Sodium Salicytate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

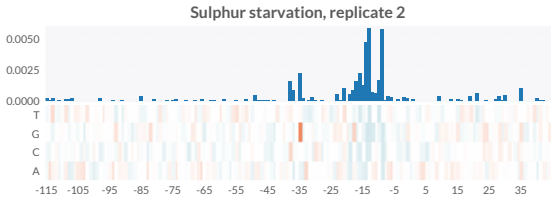

Sodium Salicytate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

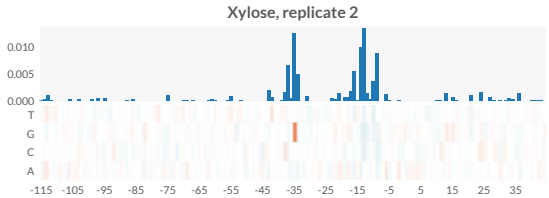

Cold Shock (1h at 10C), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

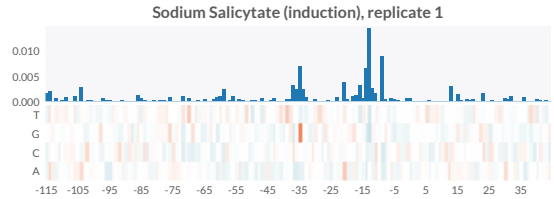
fldAp

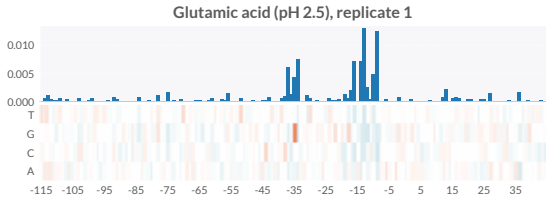

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

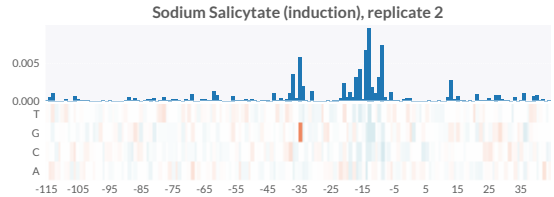
fldAp

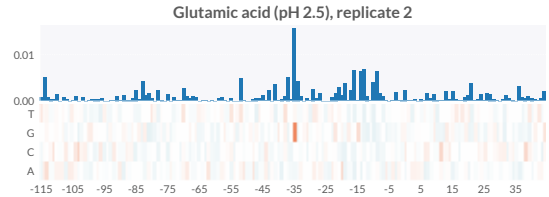

Sulphur starvation, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

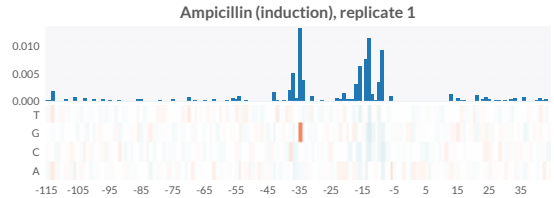

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

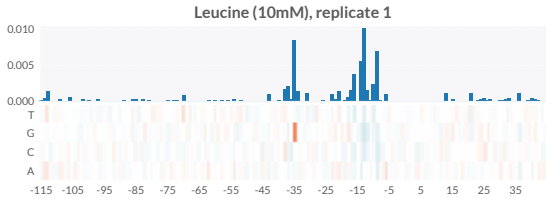

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

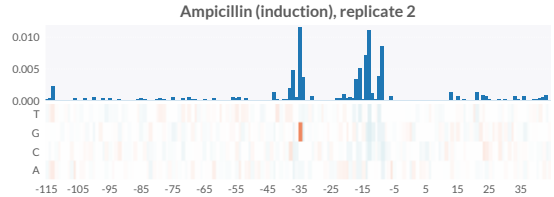

Glutamic acid (pH 2.5), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

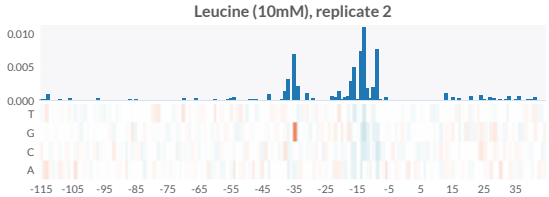

Sodium Salicytate (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

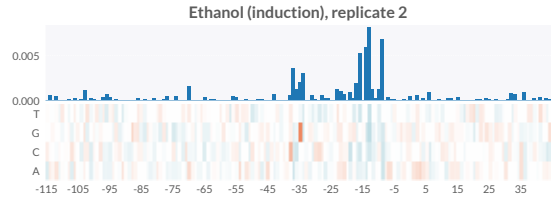

Glutamic acid (pH 2.5), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

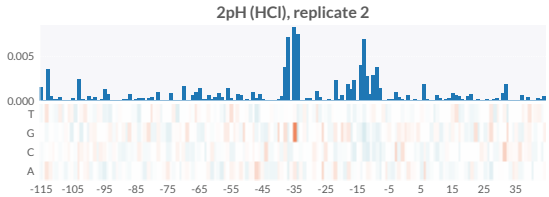

Ampicillin (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

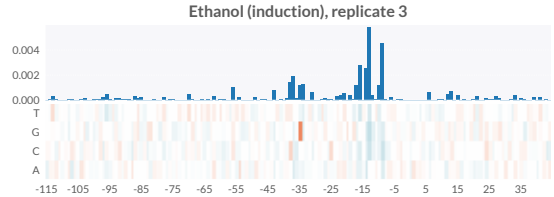

Leucine (10mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

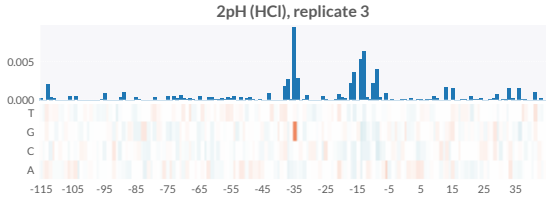

Ampicillin (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

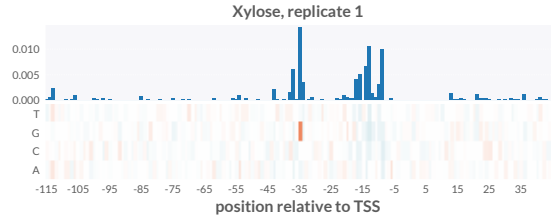

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

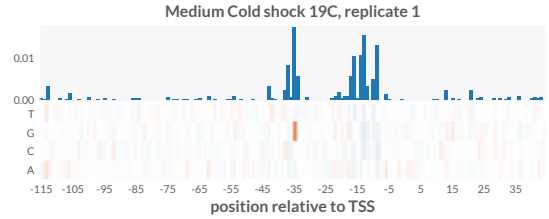

Ethanol (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Ethanol (induction), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

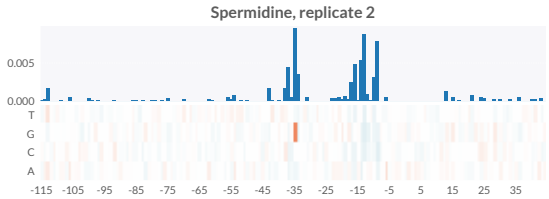

Xylose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

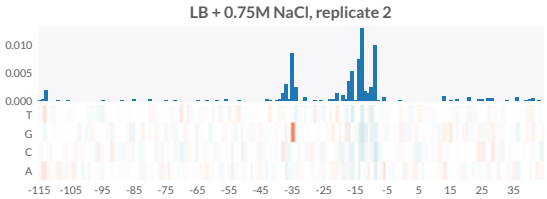

Medium Cold shock 19C, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

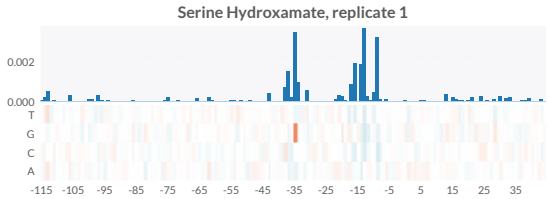
fldAp

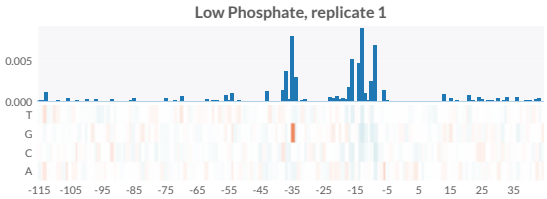

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

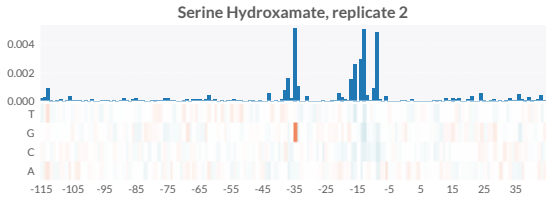
fldAp

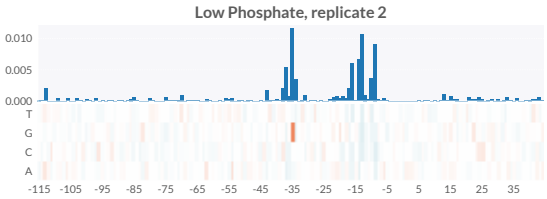

Spermidine, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

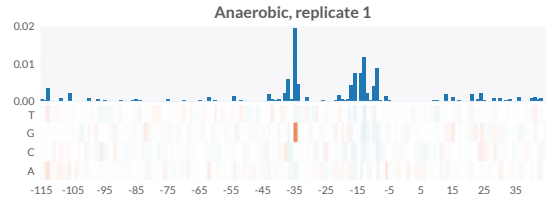

LB + 0.75M NaCl, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

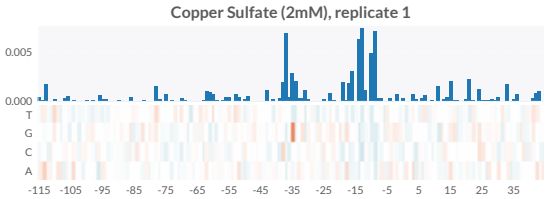

Serine Hydroxamate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

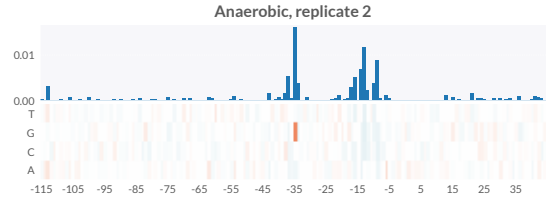

Low Phosphate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

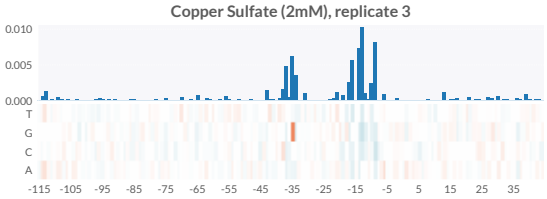

Serine Hydroxamate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

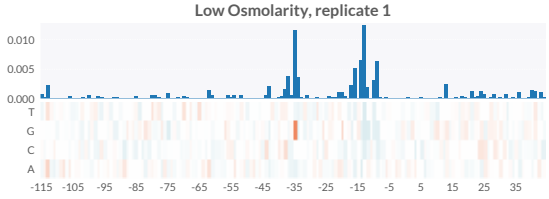

Low Phosphate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

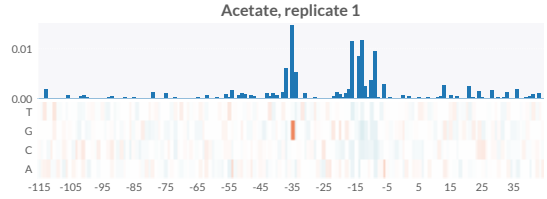

Anaerobic, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

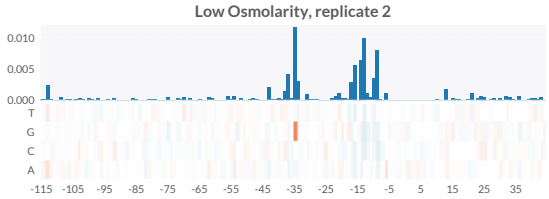

Copper Sulfate (2mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

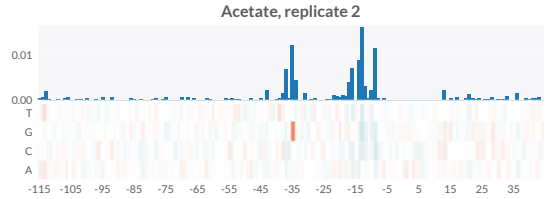

Anaerobic, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

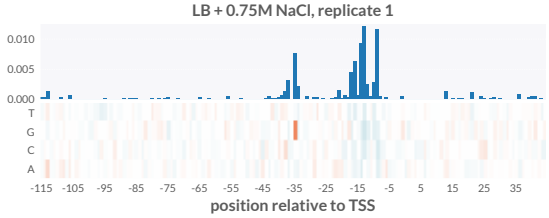

Copper Sulfate (2mM), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

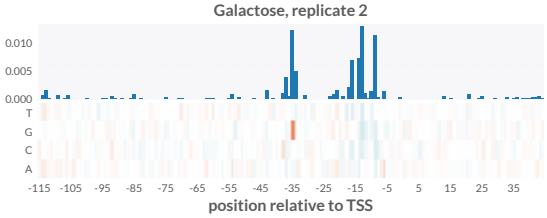

Low Osmolarity, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

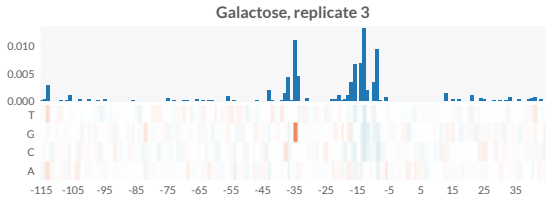

Low Osmolarity, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

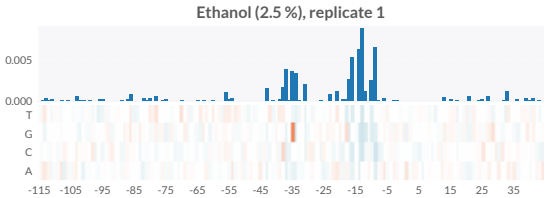

Acetate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

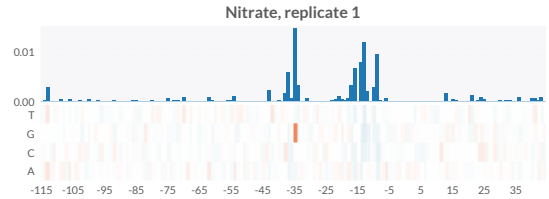

LB + 0.75M NaCl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

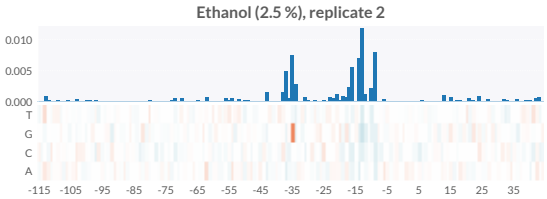

Galactose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

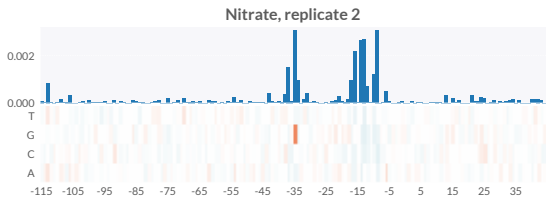
fldAp

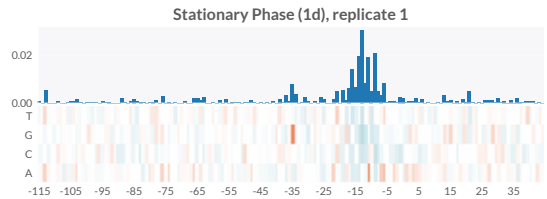

Galactose, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

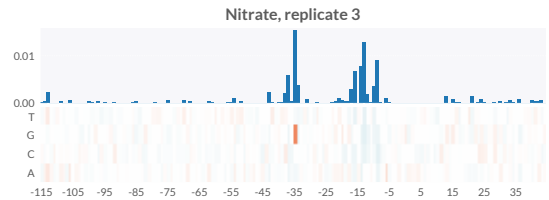

Ethanol (2.5 %), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

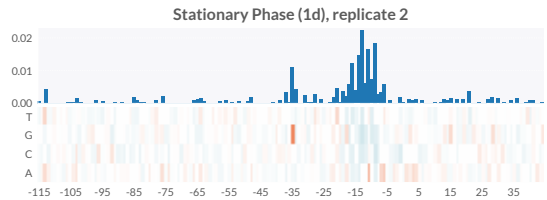

Nitrate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

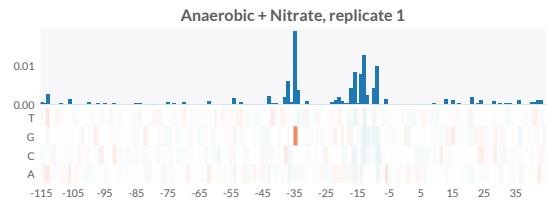

Ethanol (2.5 %), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

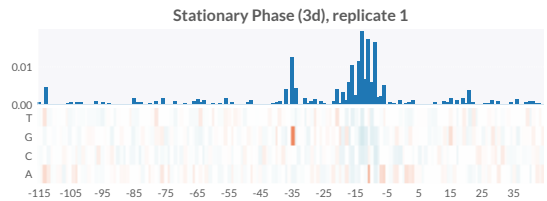

Nitrate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

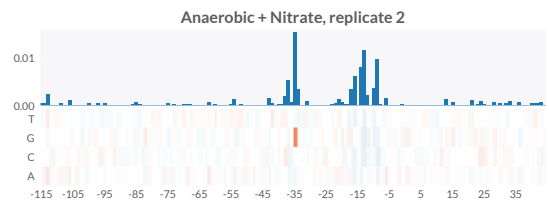

Stationary Phase (1d), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

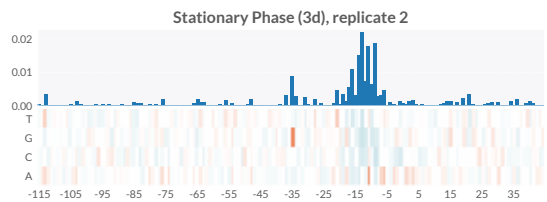

Nitrate, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

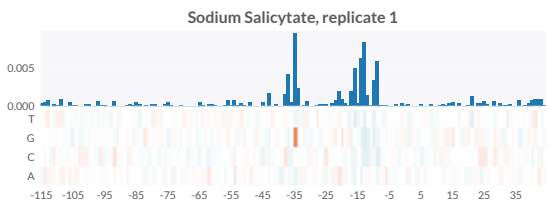

Stationary Phase (1d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

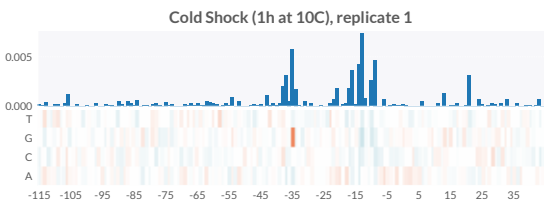

Anaerobic + Nitrate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

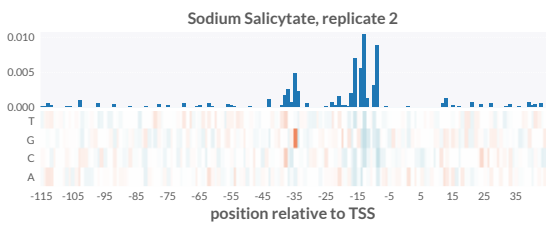

Stationary Phase (3d), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

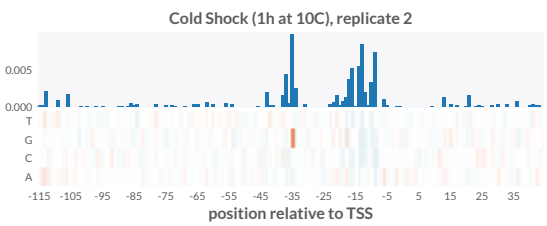

Anaerobic + Nitrate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

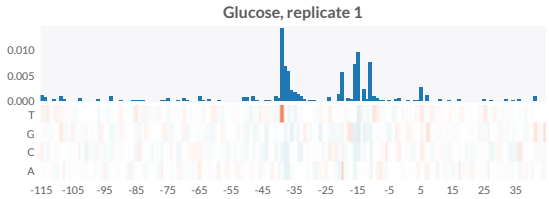

Sodium Salicytate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

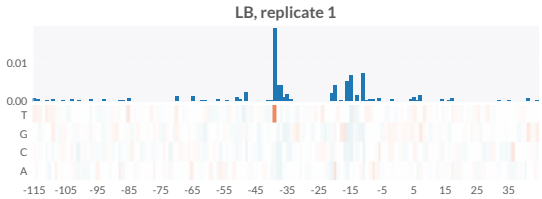

Cold Shock (1h at 10C), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

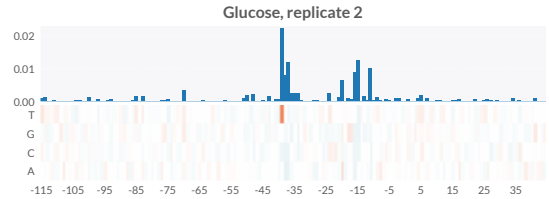

Sodium Salicytate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

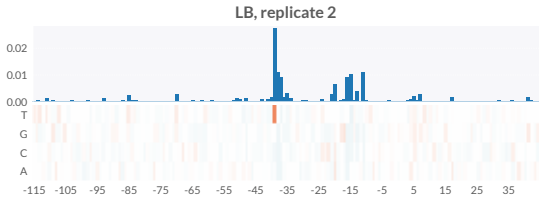

Cold Shock (1h at 10C), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

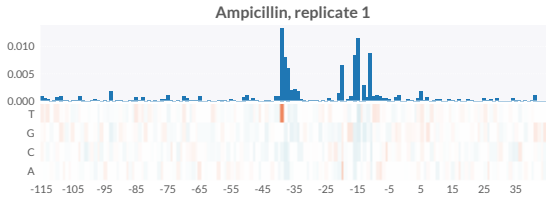
ftsKp1

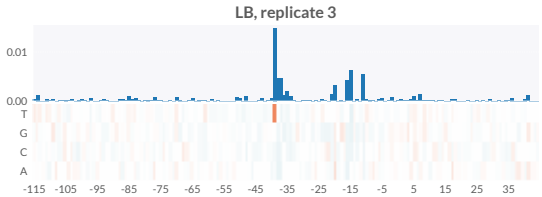

Glucose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

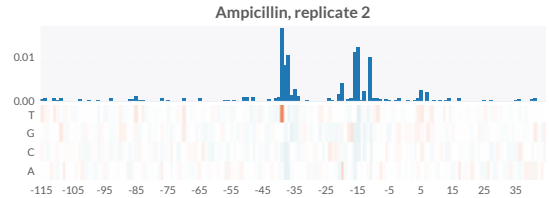

LB, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

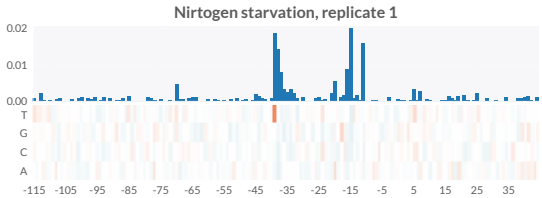

Glucose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

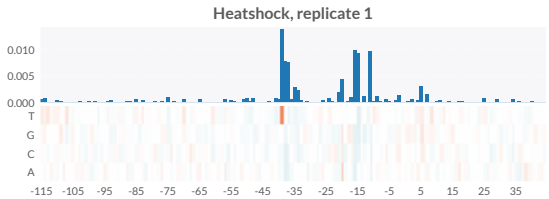

LB, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

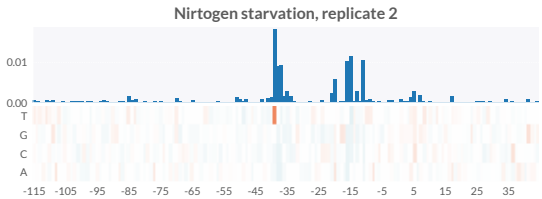

Ampicillin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

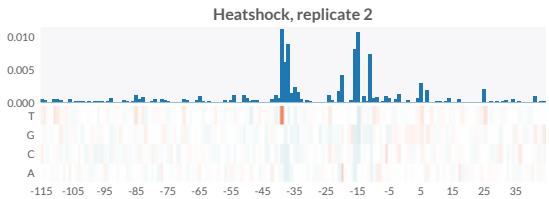

LB, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

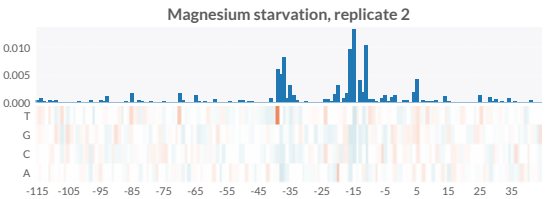

Ampicillin, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

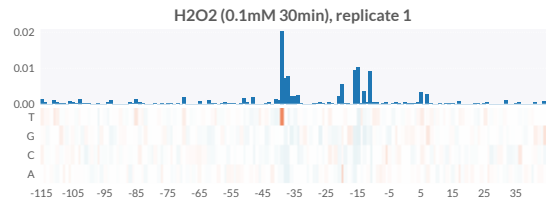

Nirtogen starvation, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

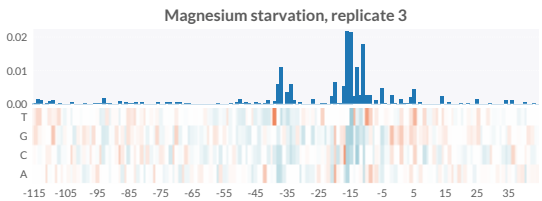

Heatshock, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

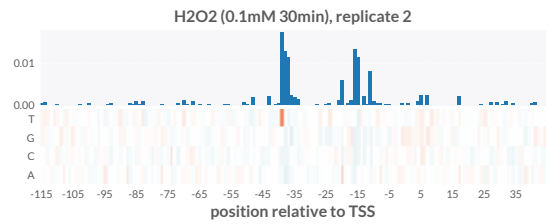

Nirtogen starvation, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

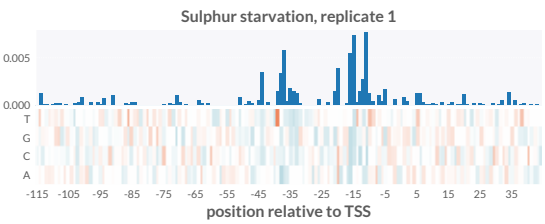

Heatshock, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

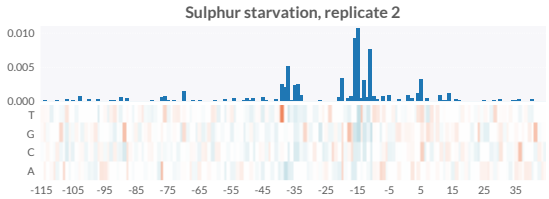

H2O2 (0.1mM 30min), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

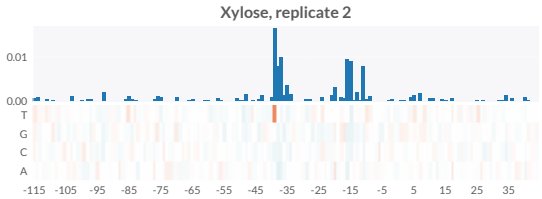

Magnesium starvation, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

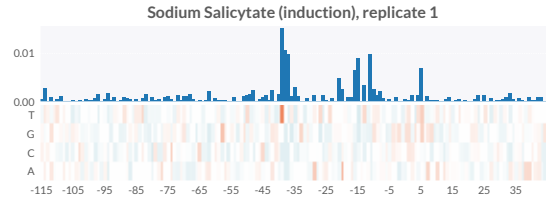

H2O2 (0.1mM 30min), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

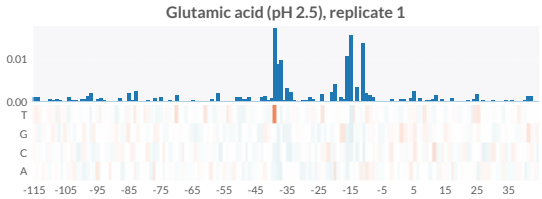

Sulphur starvation, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

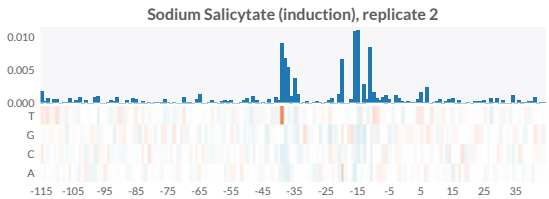
ftsKp1

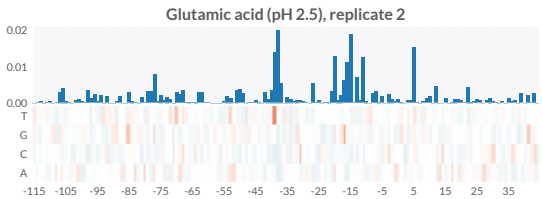

Sulphur starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

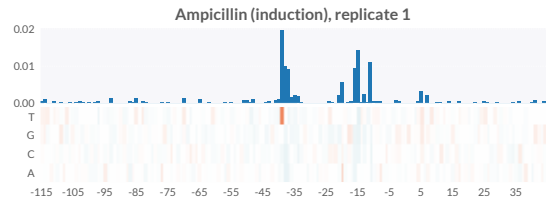

Xylose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

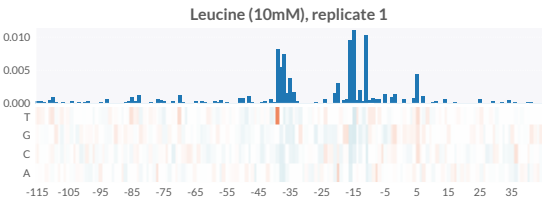

Sodium Salicytate (induction), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

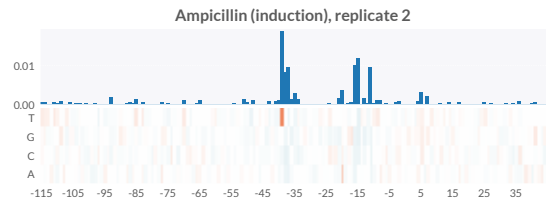

Glutamic acid (pH 2.5), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

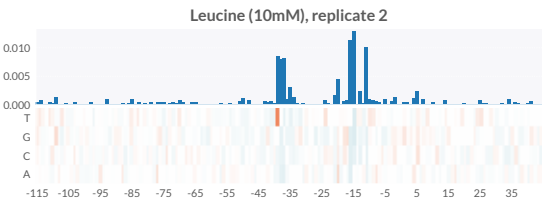

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

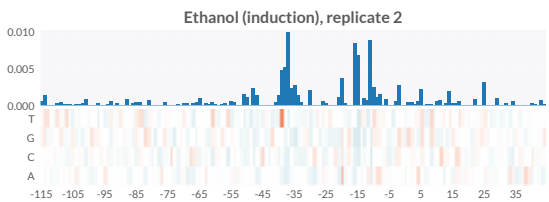

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

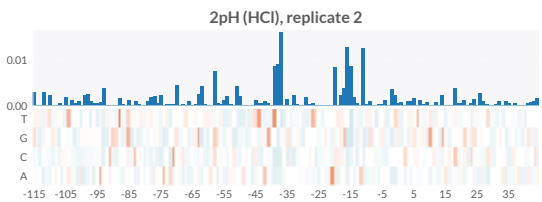

Ampicillin (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

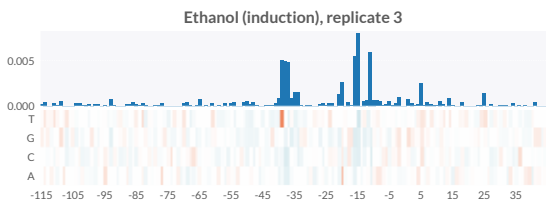

Leucine (10mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

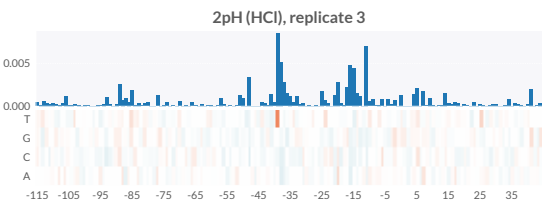

Ampicillin (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

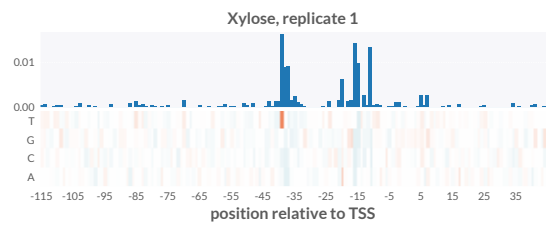

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

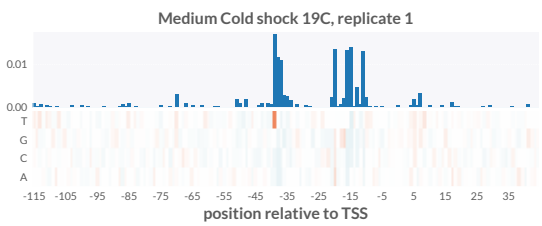

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

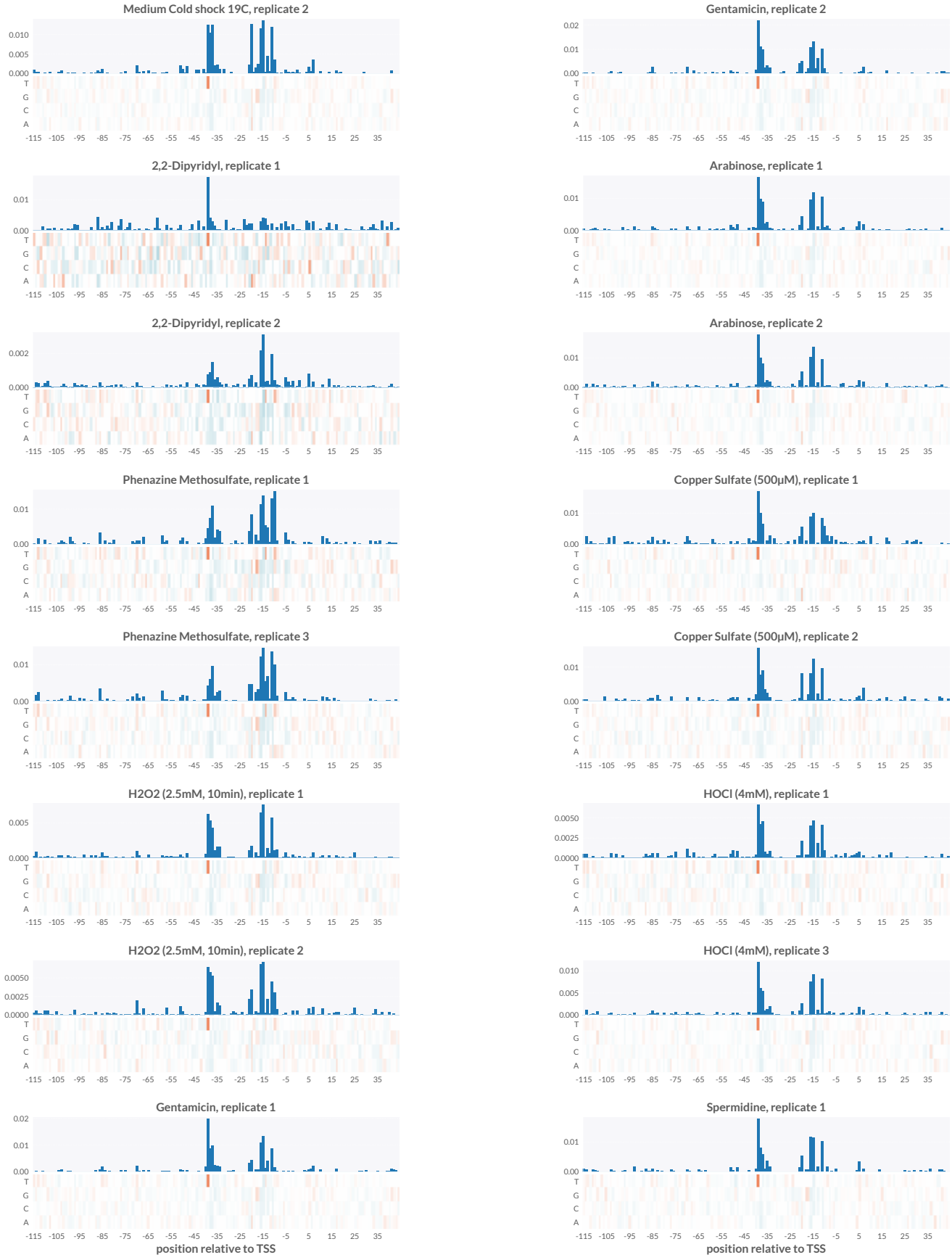

Ethanol (induction), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

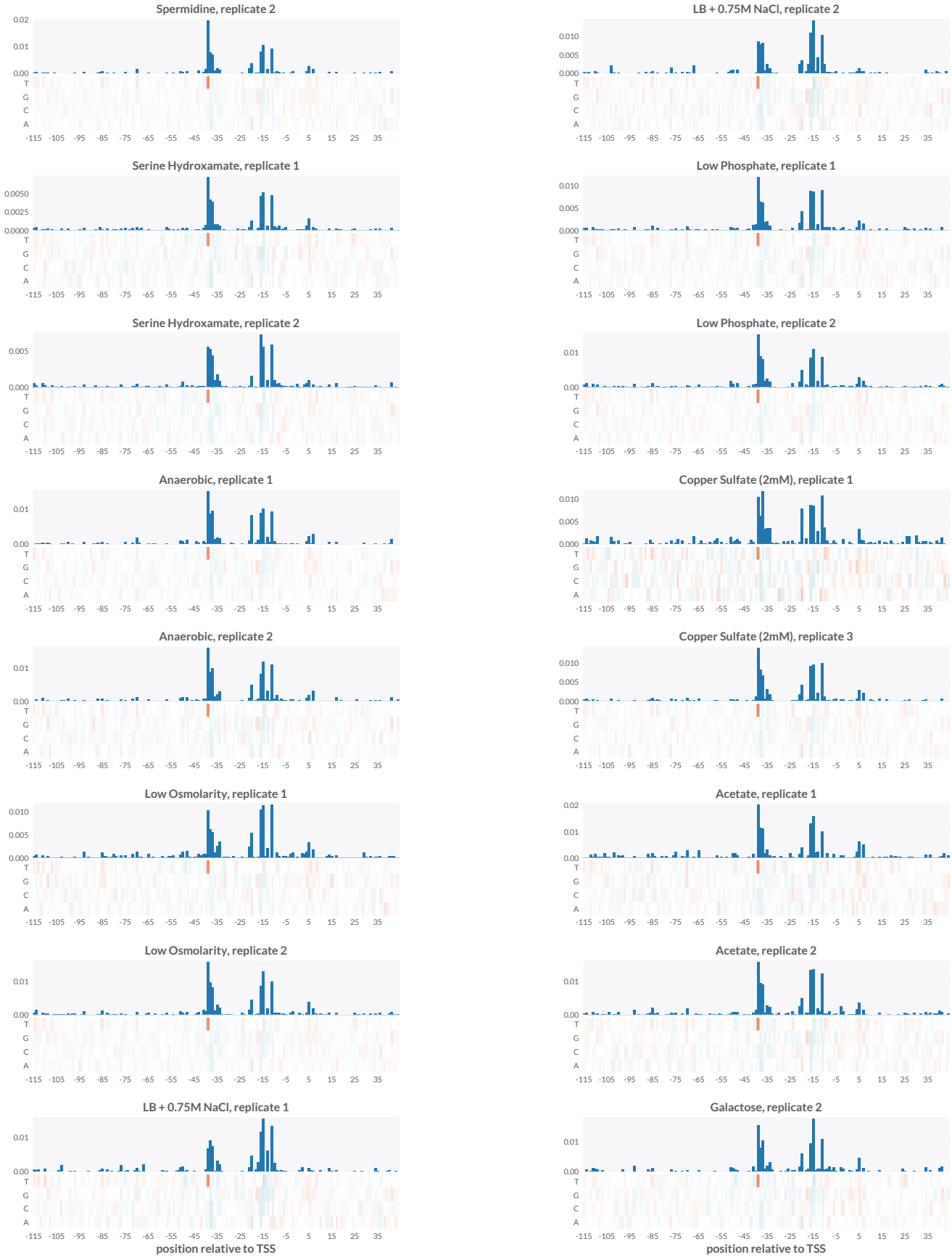

Xylose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Medium Cold shock 19C, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

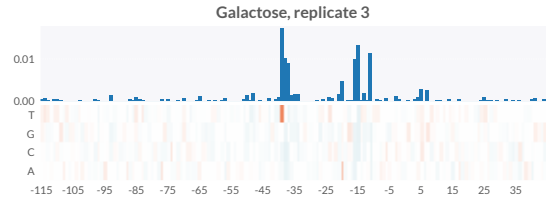
ftsKp1

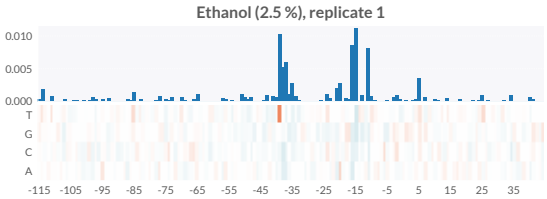

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

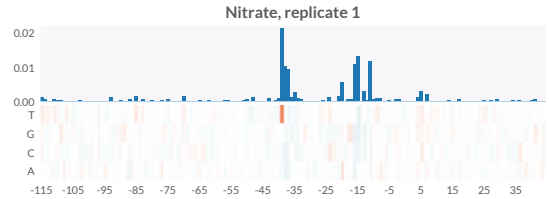
ftsKp1

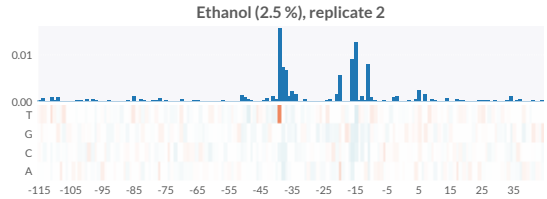

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

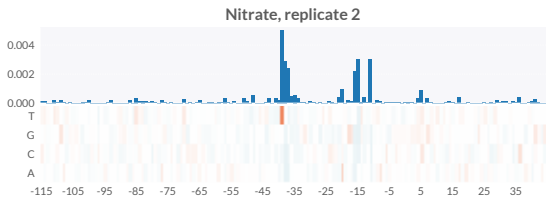
ftsKp1

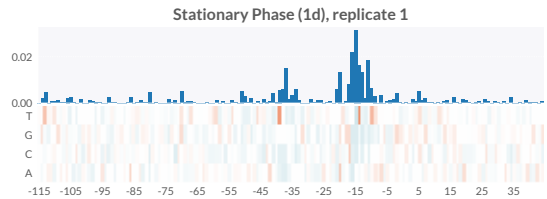

Galactose, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

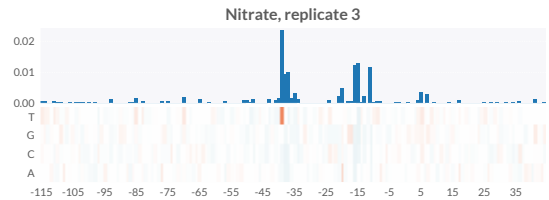

Ethanol (2.5 %), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

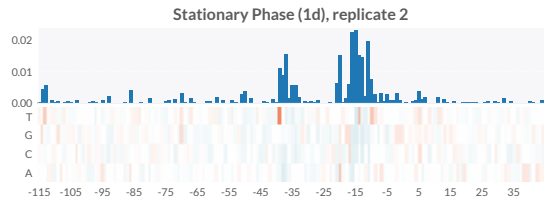

Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

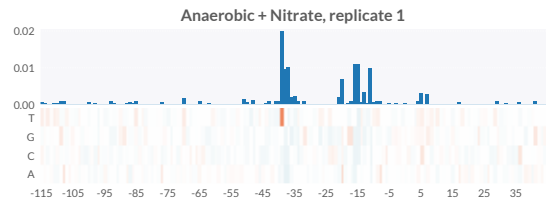

Ethanol (2.5 %), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

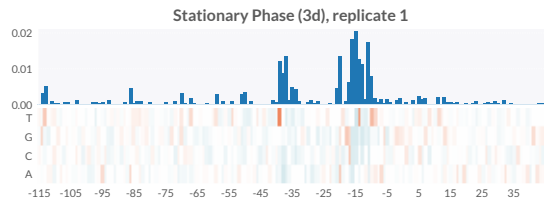

Nitrate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

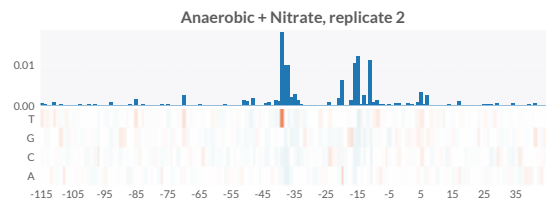

Stationary Phase (1d), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

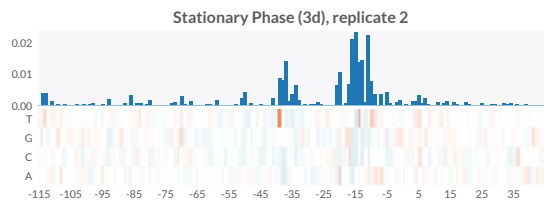

Nitrate, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

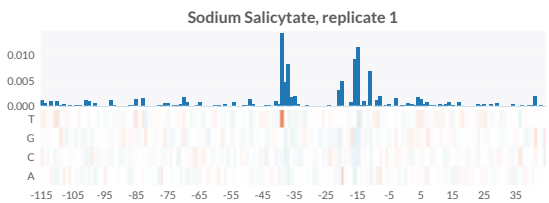

Stationary Phase (1d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

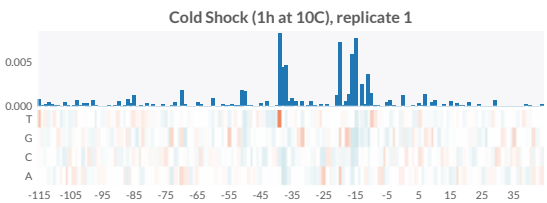

Anaerobic + Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

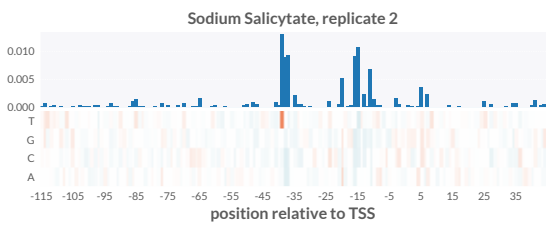

Stationary Phase (3d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

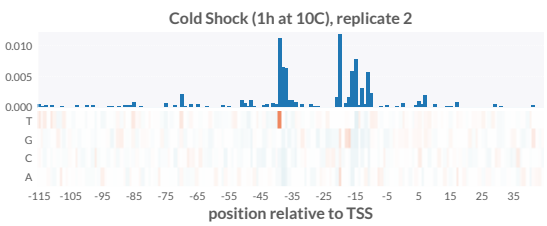

Anaerobic + Nitrate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

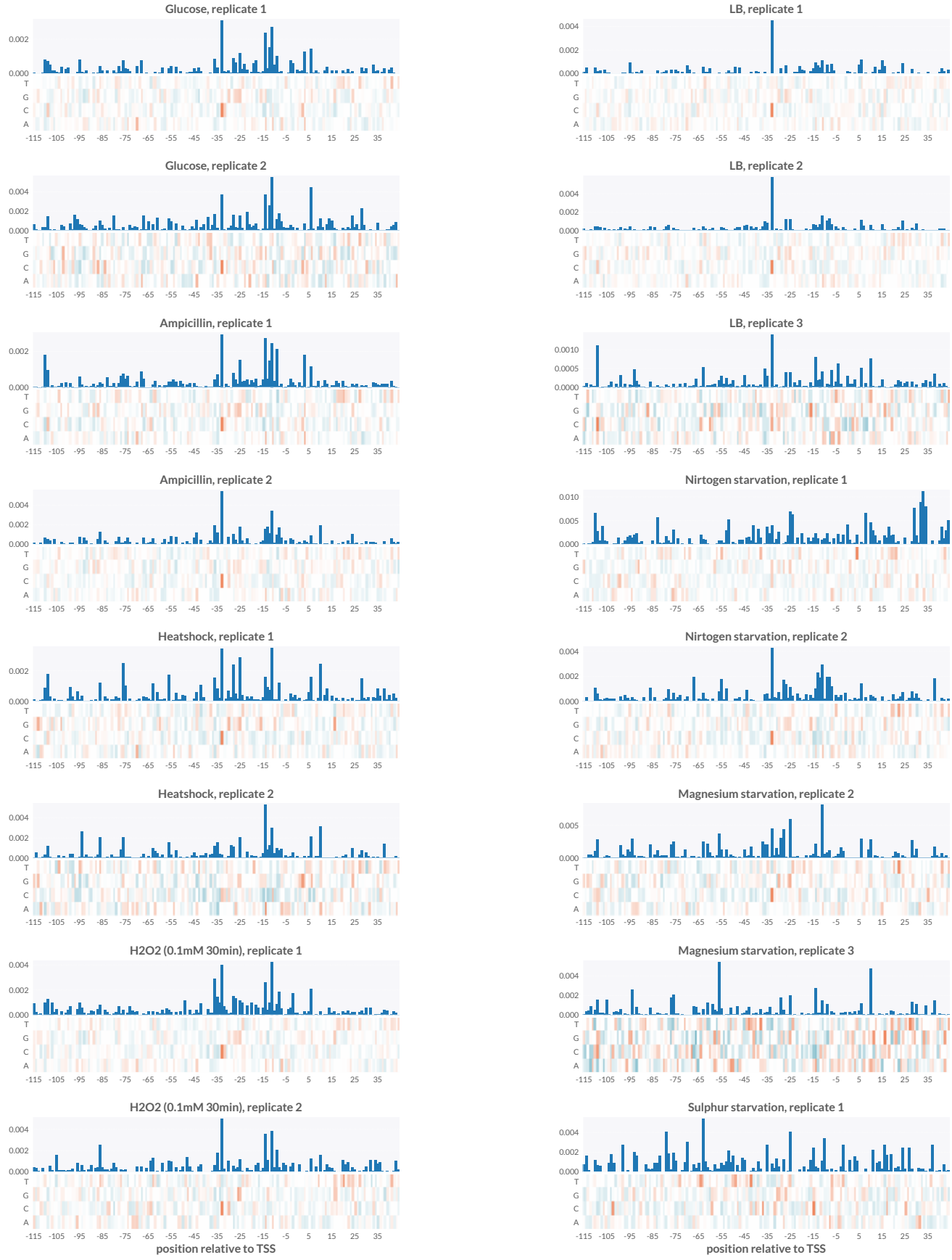

Sodium Salicytate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

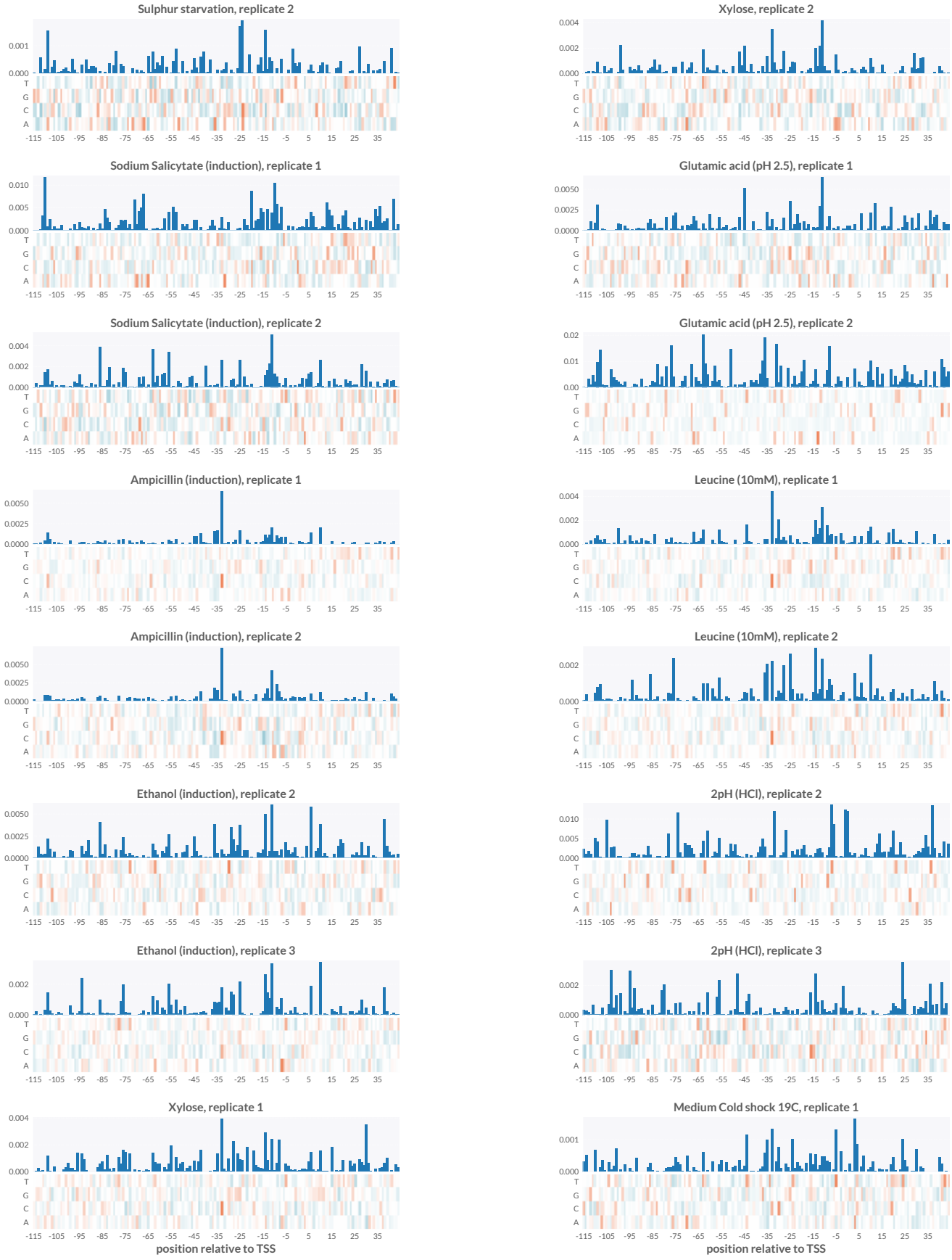

Sodium Salicytate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

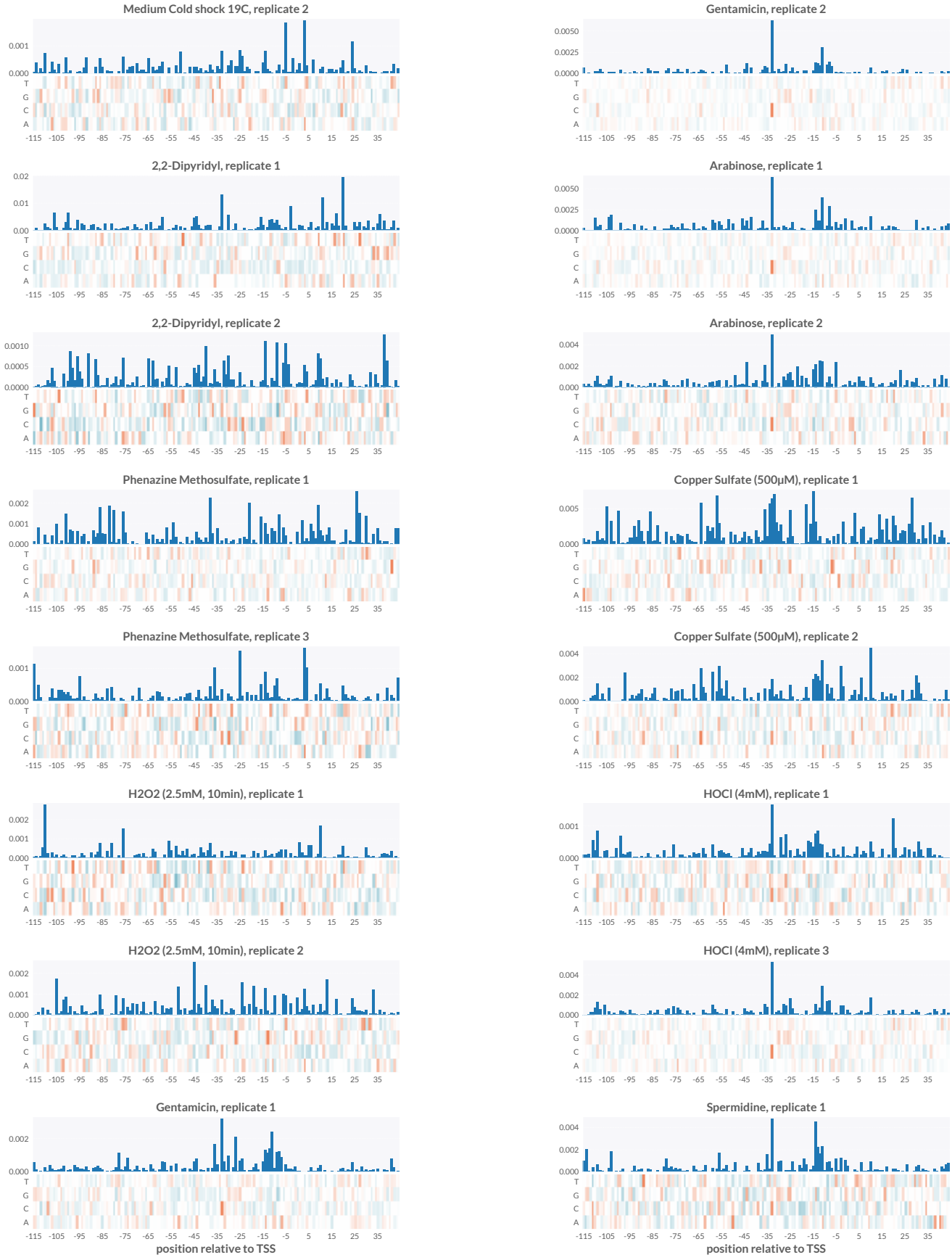
ftsKp2


Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

ftsKp2


Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

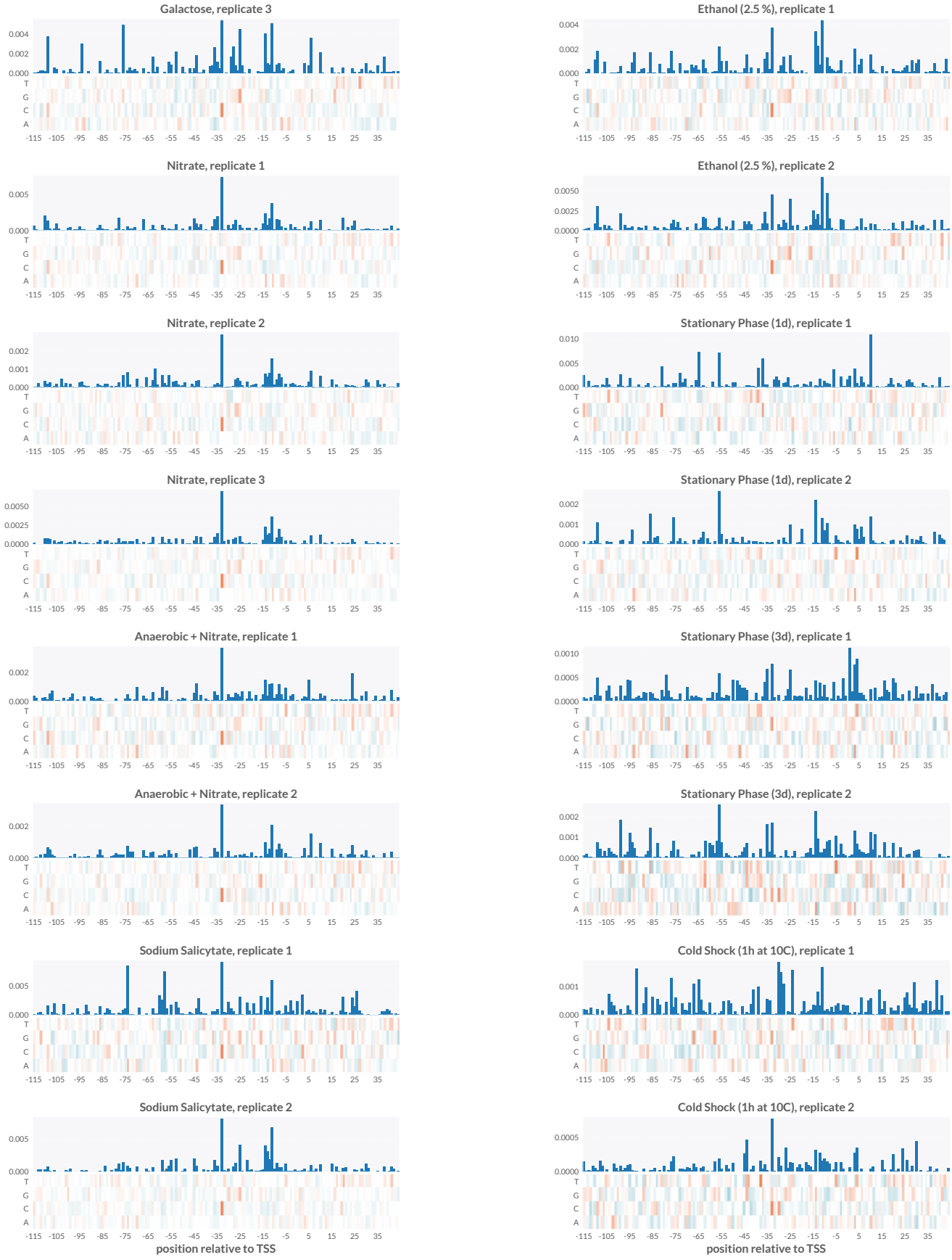
ftsKp2


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

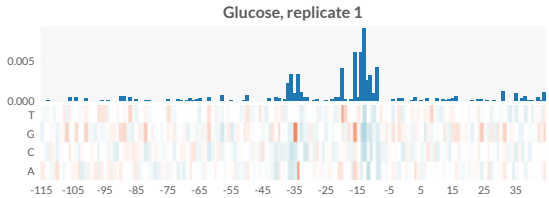
ftsKp2

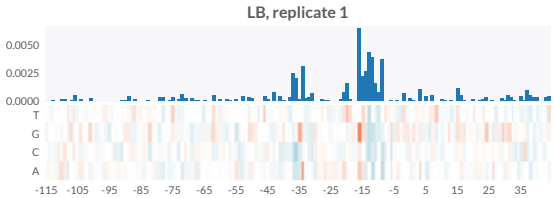

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

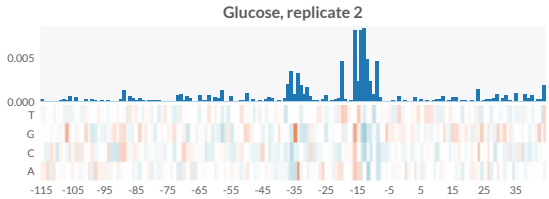
ftsKp2

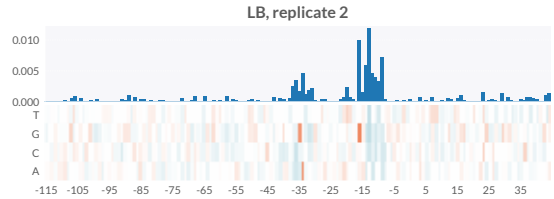

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

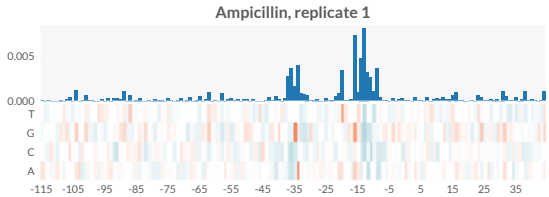
furpa

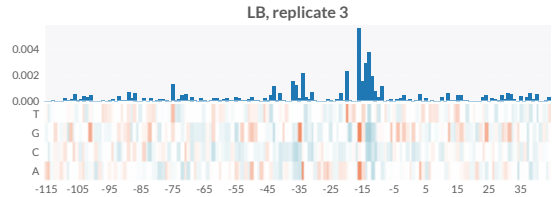

Glucose, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

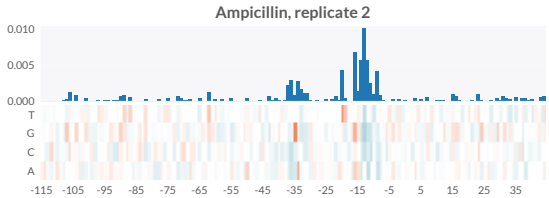

LB, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

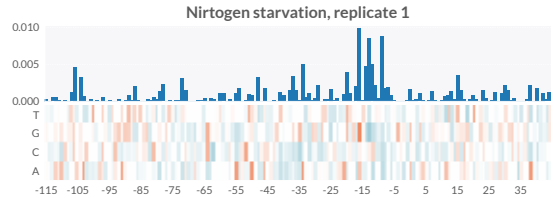

Glucose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

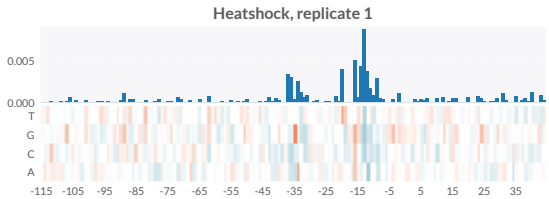

LB, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

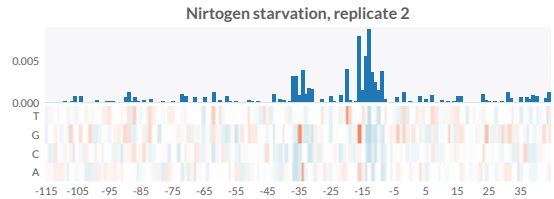

Ampicillin, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

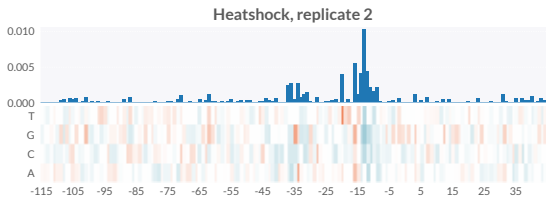

LB, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

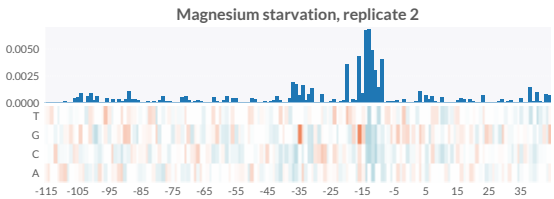

Ampicillin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

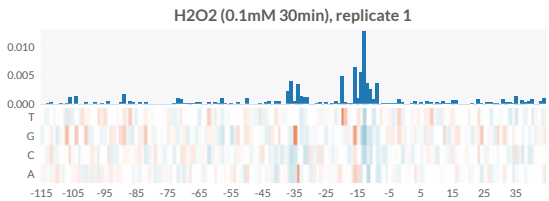

Nirtogen starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

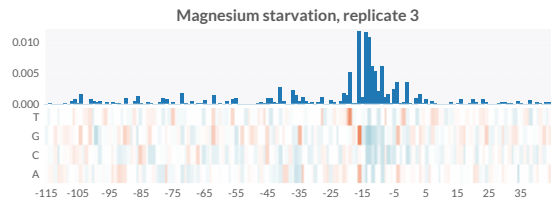

Heatshock, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

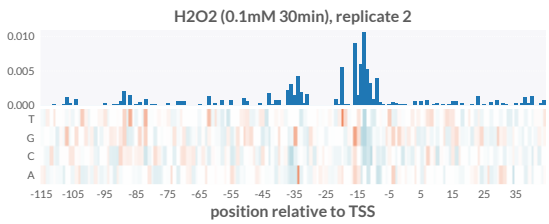

Nirtogen starvation, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

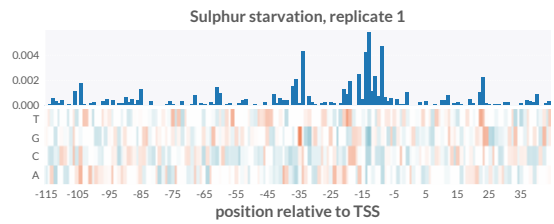

Heatshock, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

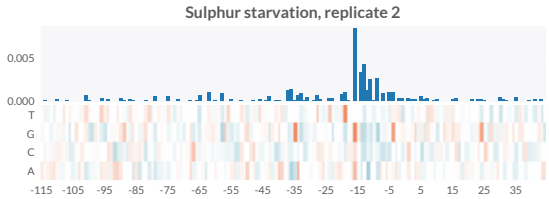

H2O2 (0.1mM 30min), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

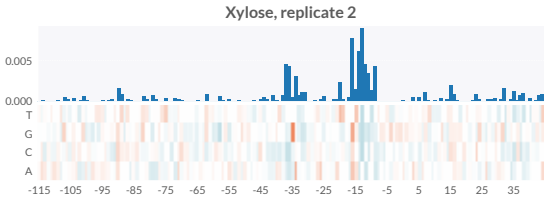

Magnesium starvation, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

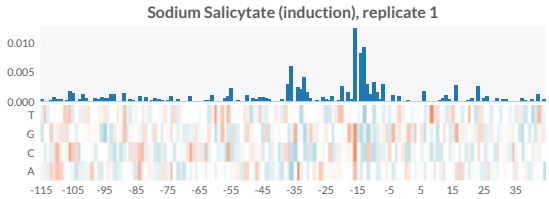

H2O2 (0.1mM 30min), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

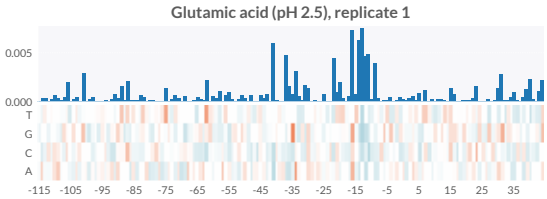

Sulphur starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

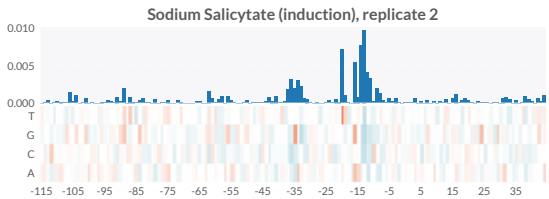
furpa

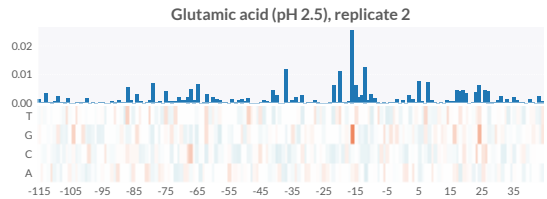

Sulphur starvation, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

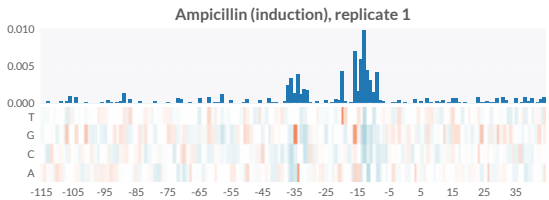

Xylose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

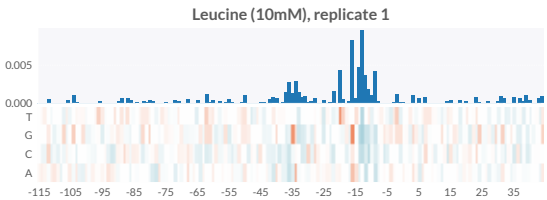

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

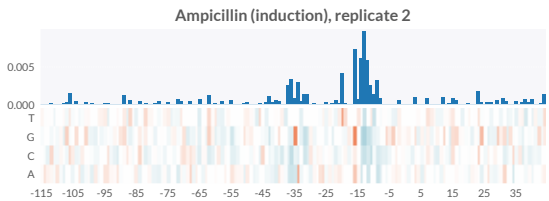

Glutamic acid (pH 2.5), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

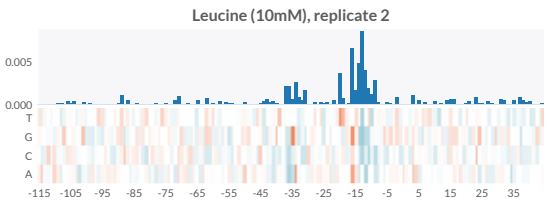

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

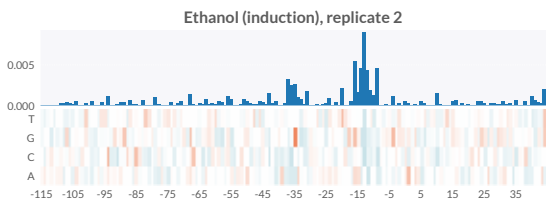

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

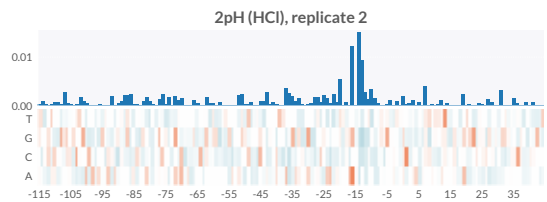

Ampicillin (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

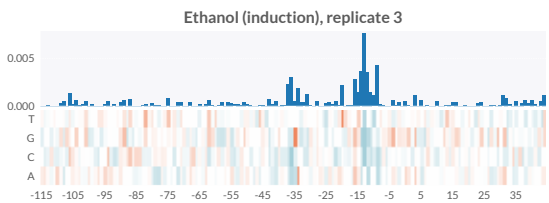

Leucine (10mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

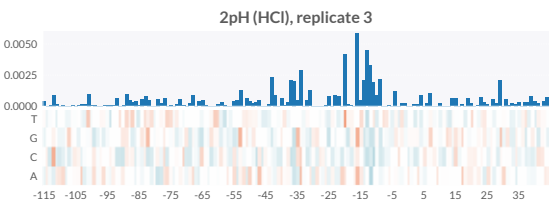

Ampicillin (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

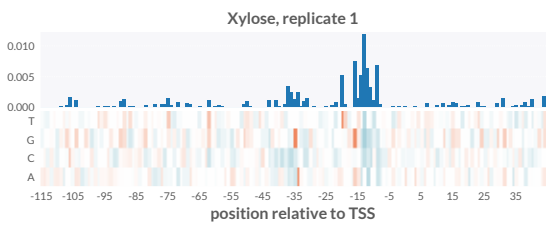

Leucine (10mM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

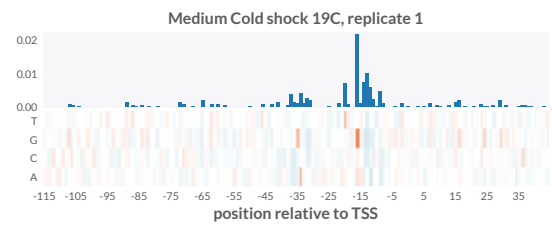

Ethanol (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Ethanol (induction), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

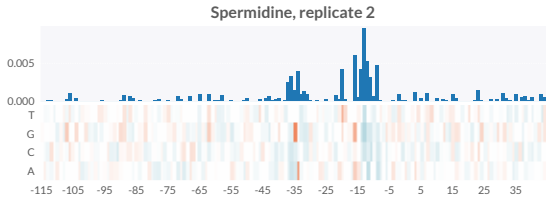

Xylose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

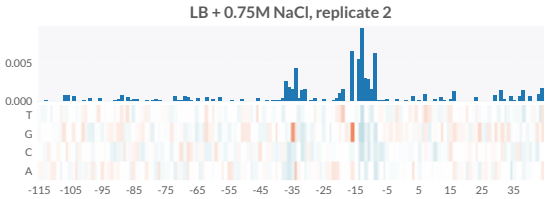

Medium Cold shock 19C, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

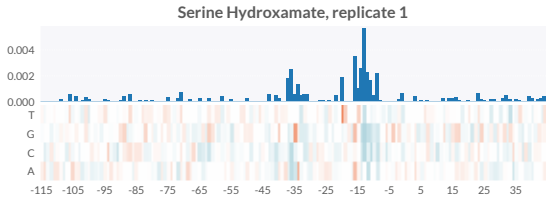
furpa

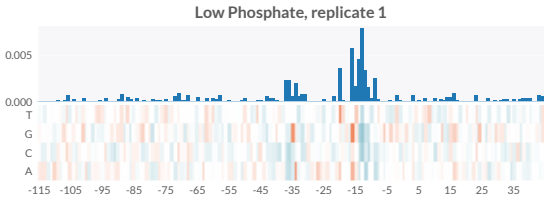

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

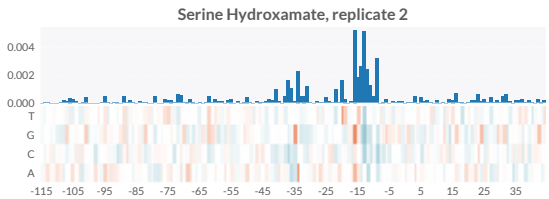
furpa

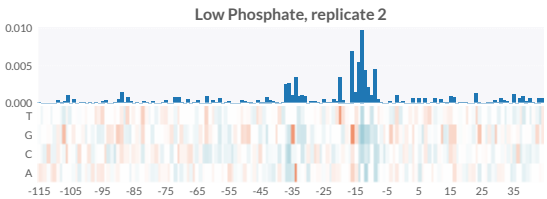

Spermidine, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

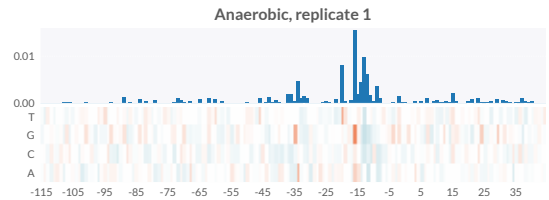

LB + 0.75M NaCl, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

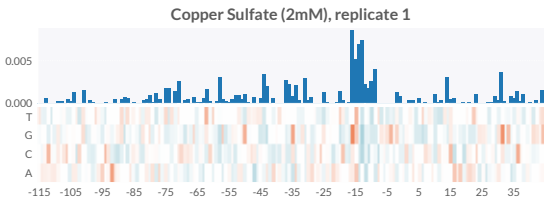

Serine Hydroxamate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

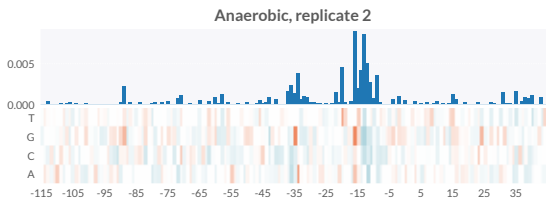

Low Phosphate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

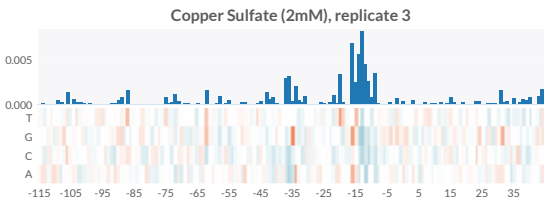

Serine Hydroxamate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

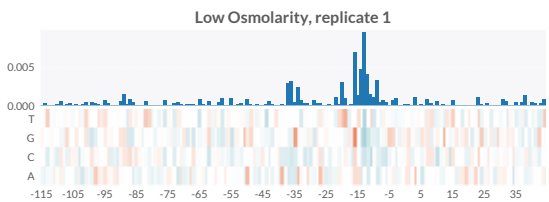

Low Phosphate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

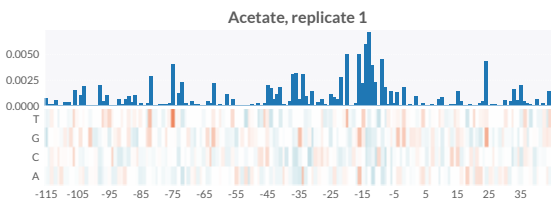

Anaerobic, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

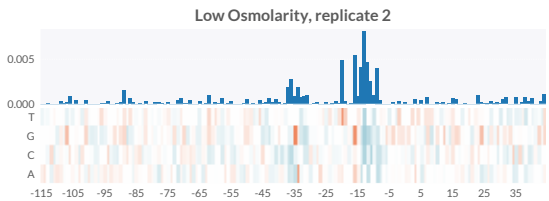

Copper Sulfate (2mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

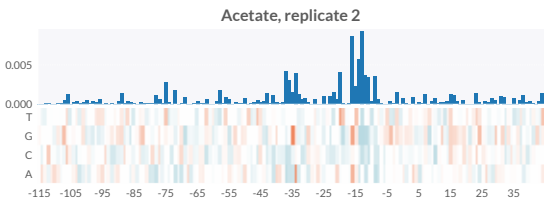

Anaerobic, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

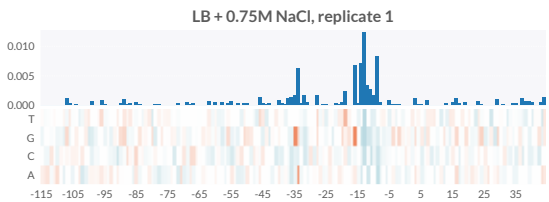

Copper Sulfate (2mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

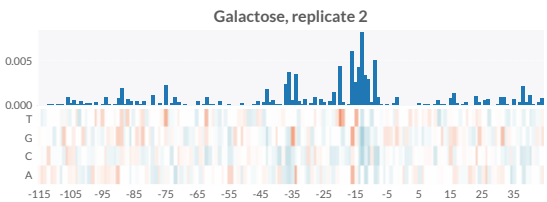

Low Osmolarity, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

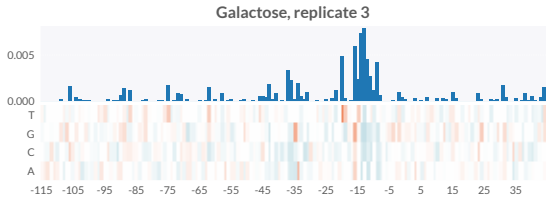

Low Osmolarity, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

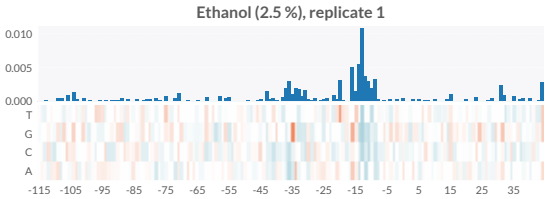

Acetate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

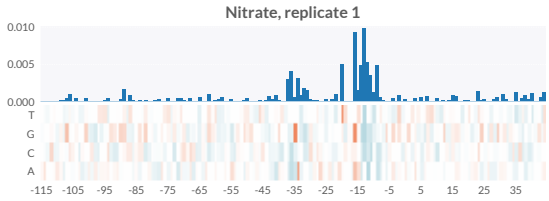

LB + 0.75M NaCl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

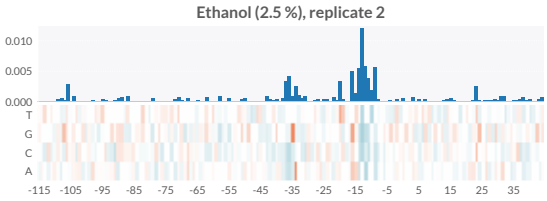

Galactose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

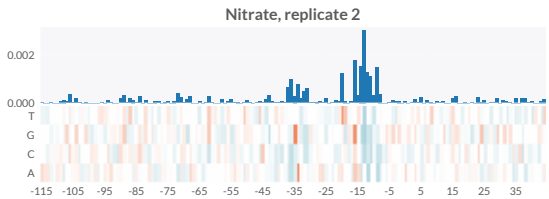
furpa

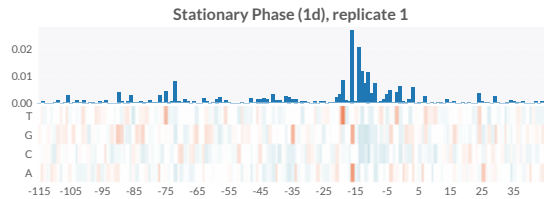

Galactose, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

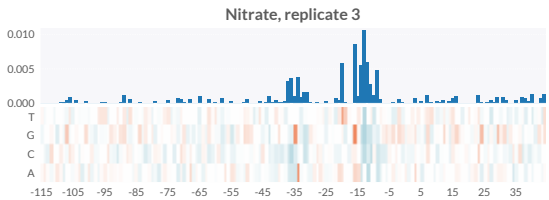

Ethanol (2.5 %), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

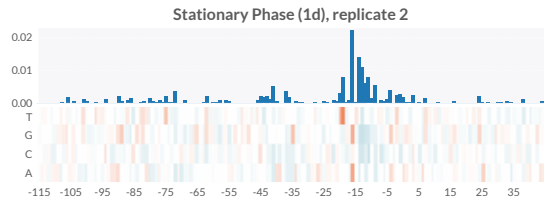

Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

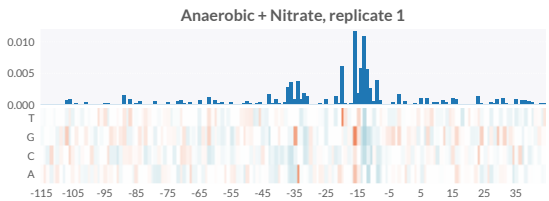

Ethanol (2.5 %), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

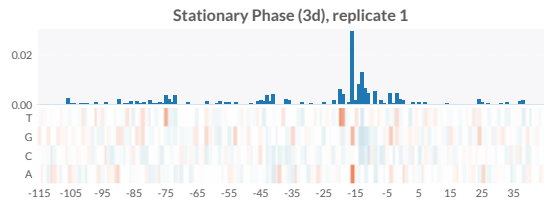

Nitrate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

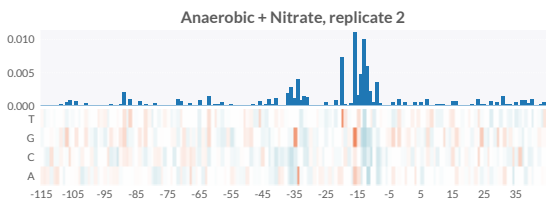

Stationary Phase (1d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

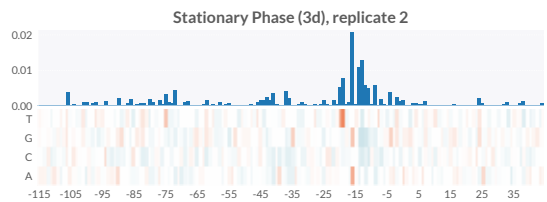

Nitrate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

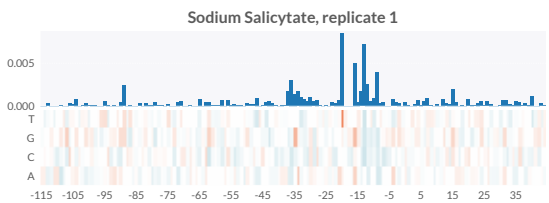

Stationary Phase (1d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

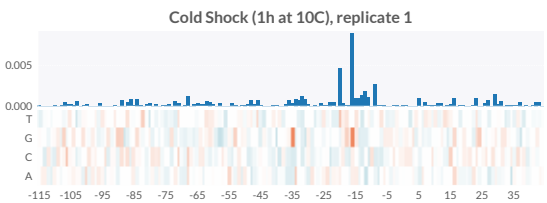

Anaerobic + Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

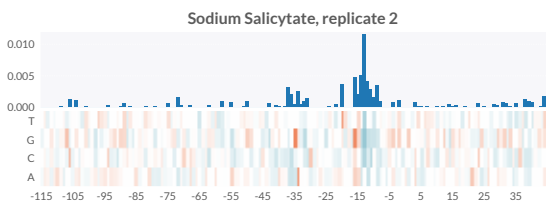

Stationary Phase (3d), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

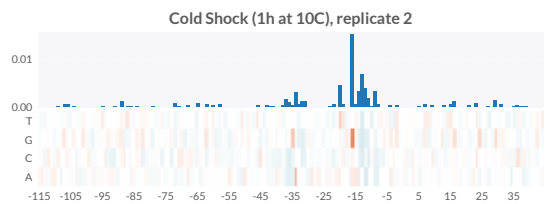

Anaerobic + Nitrate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

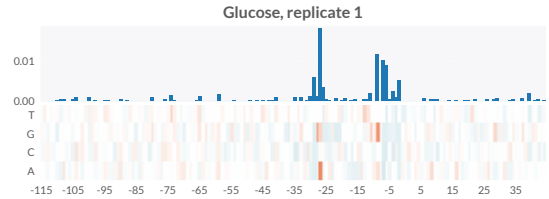

Sodium Salicytate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

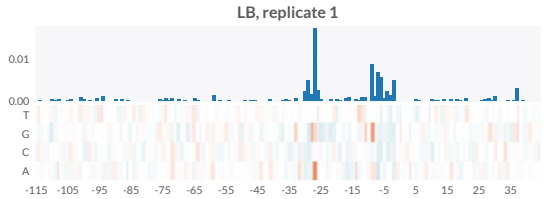

Cold Shock (1h at 10C), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

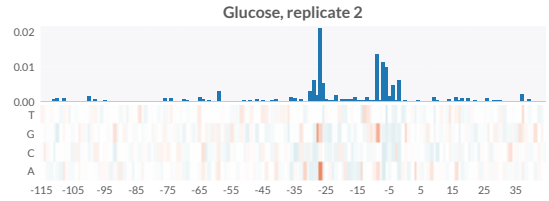

Sodium Salicytate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

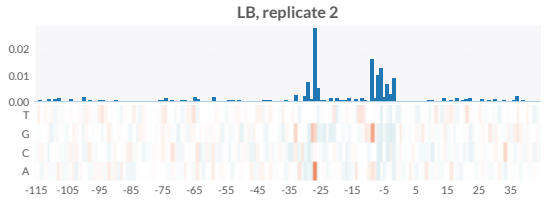

Cold Shock (1h at 10C), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

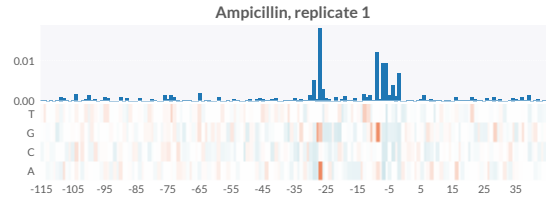
furpb

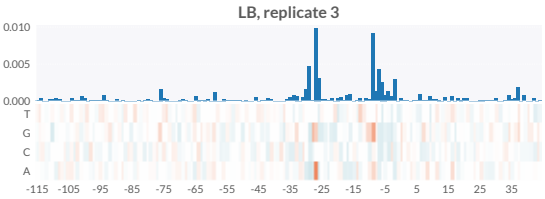

Glucose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

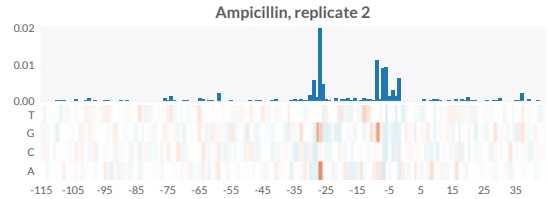

LB, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

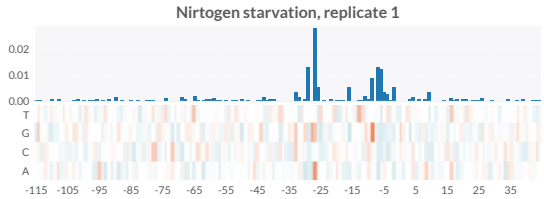

Glucose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

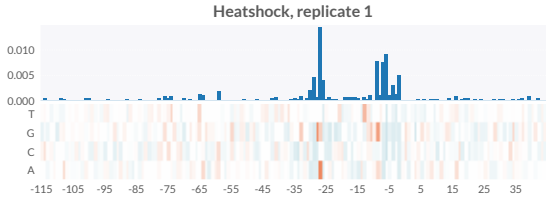

LB, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

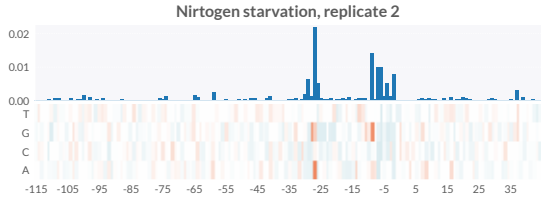

Ampicillin, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

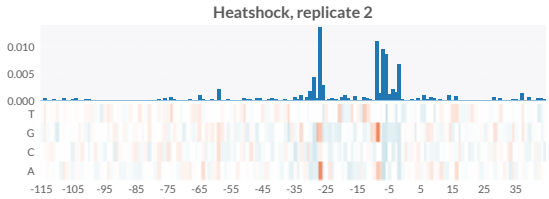

LB, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

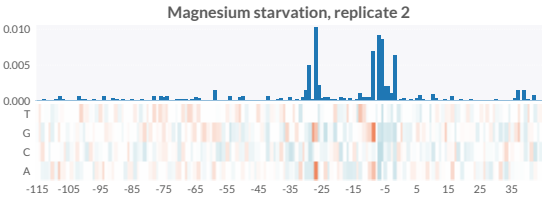

Ampicillin, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

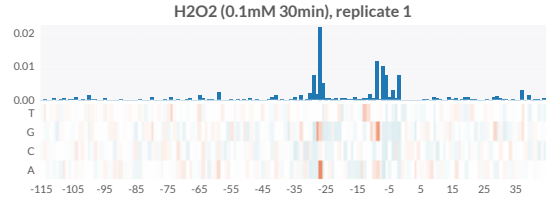

Nirtogen starvation, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

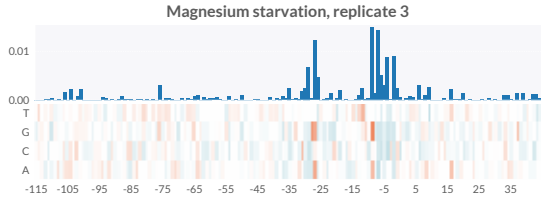

Heatshock, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

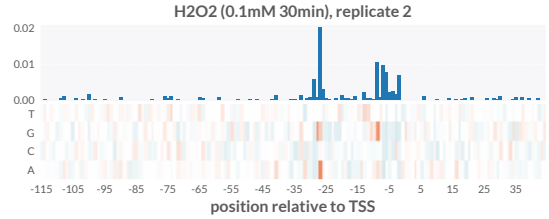

Nirtogen starvation, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

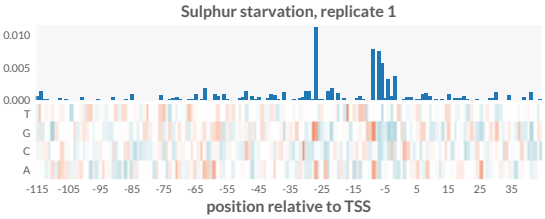

Heatshock, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

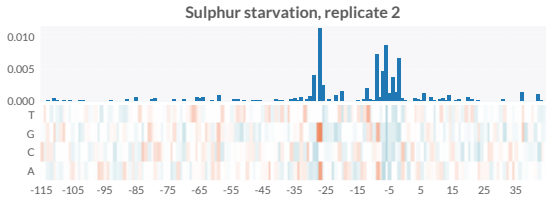

H2O2 (0.1mM 30min), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

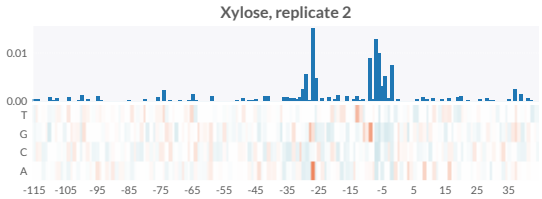

Magnesium starvation, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

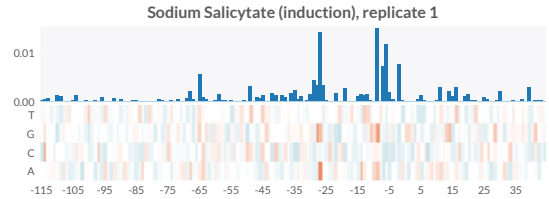

H2O2 (0.1mM 30min), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

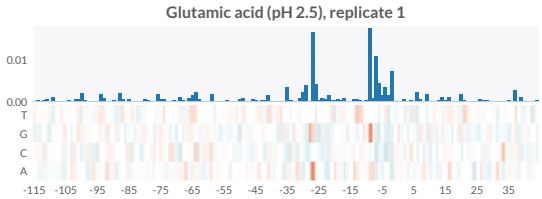

Sulphur starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

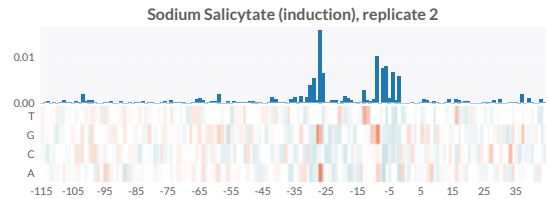
furpb

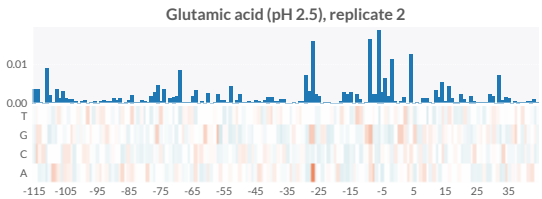

Sulphur starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

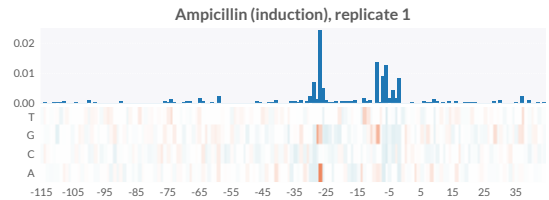

Xylose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

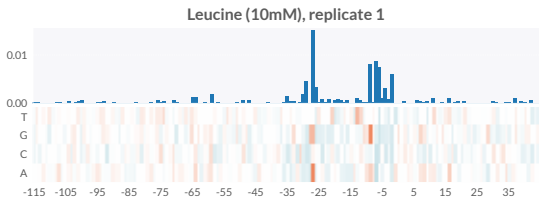

Sodium Salicytate (induction), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

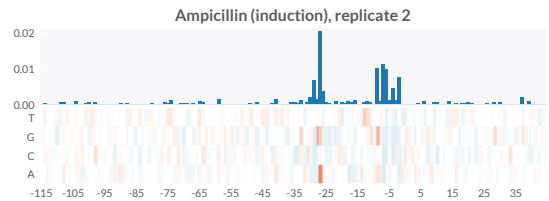

Glutamic acid (pH 2.5), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

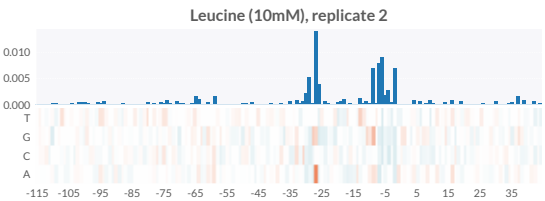

Sodium Salicytate (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

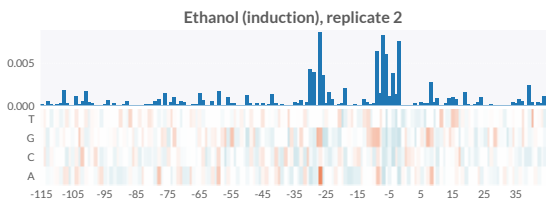

Glutamic acid (pH 2.5), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

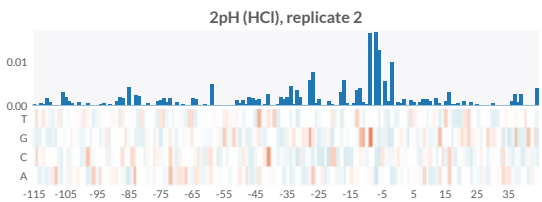

Ampicillin (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

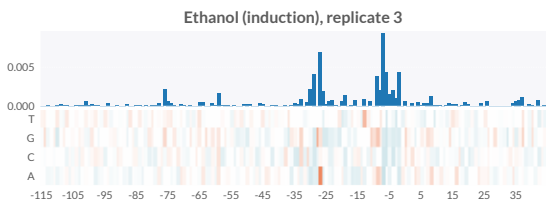

Leucine (10mM), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

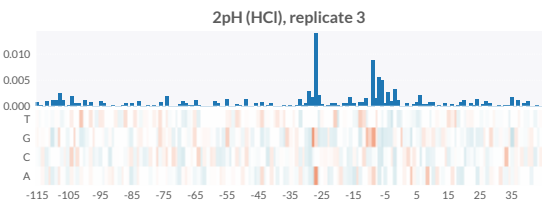

Ampicillin (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

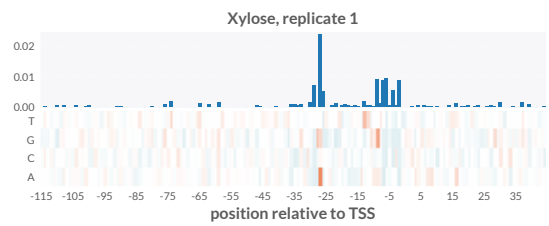

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

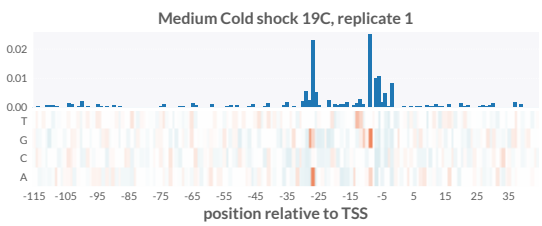

Ethanol (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

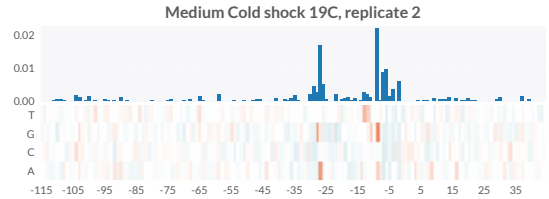

Ethanol (induction), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

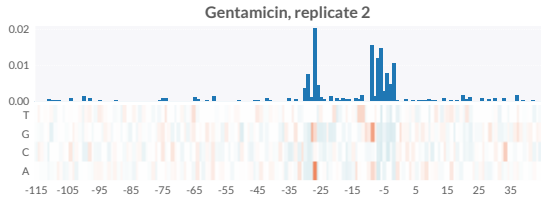

2pH (HCl), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

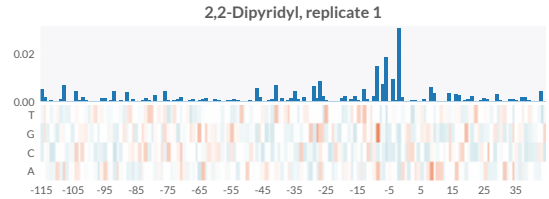

Xylose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

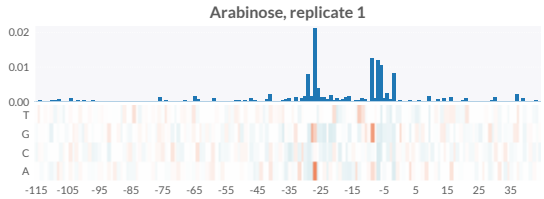

Medium Cold shock 19C, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

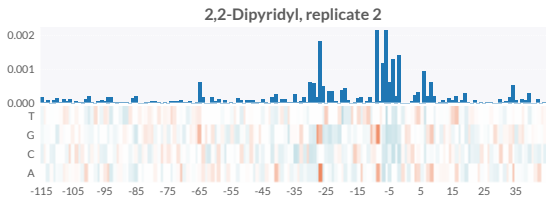
furpb

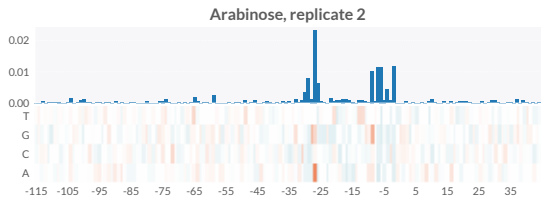

Medium Cold shock 19C, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

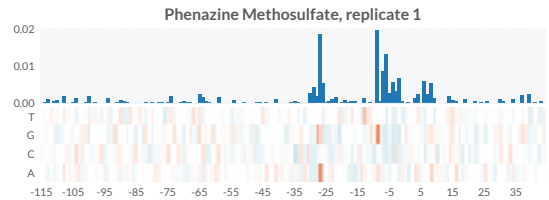

Gentamicin, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

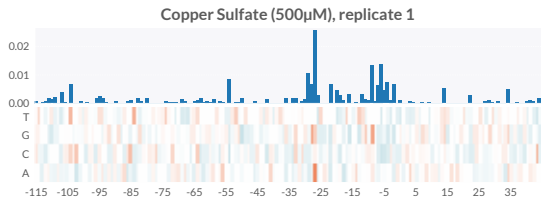

2,2-Dipyridyl, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

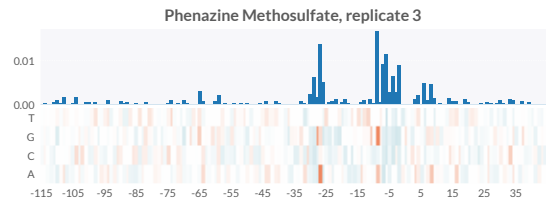

Arabinose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

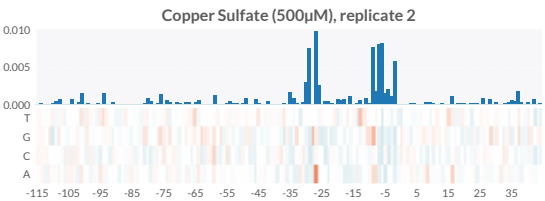

2,2-Dipyridyl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

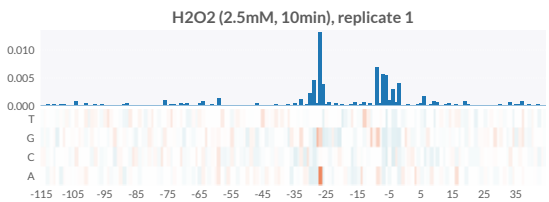

Arabinose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

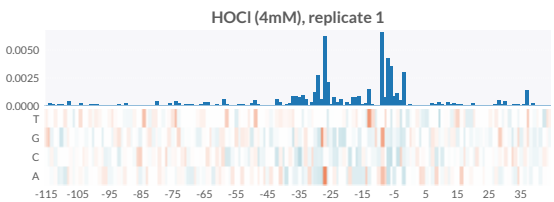

Phenazine Methosulfate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

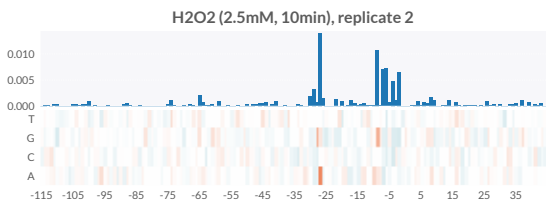

Copper Sulfate (500µM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

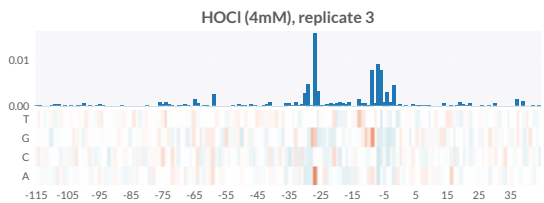

Phenazine Methosulfate, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

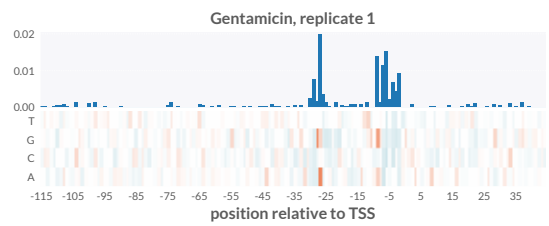

Copper Sulfate (500µM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

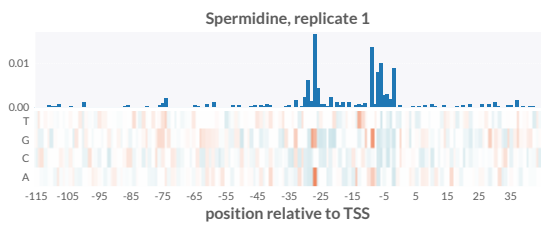

H2O2 (2.5mM, 10min), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

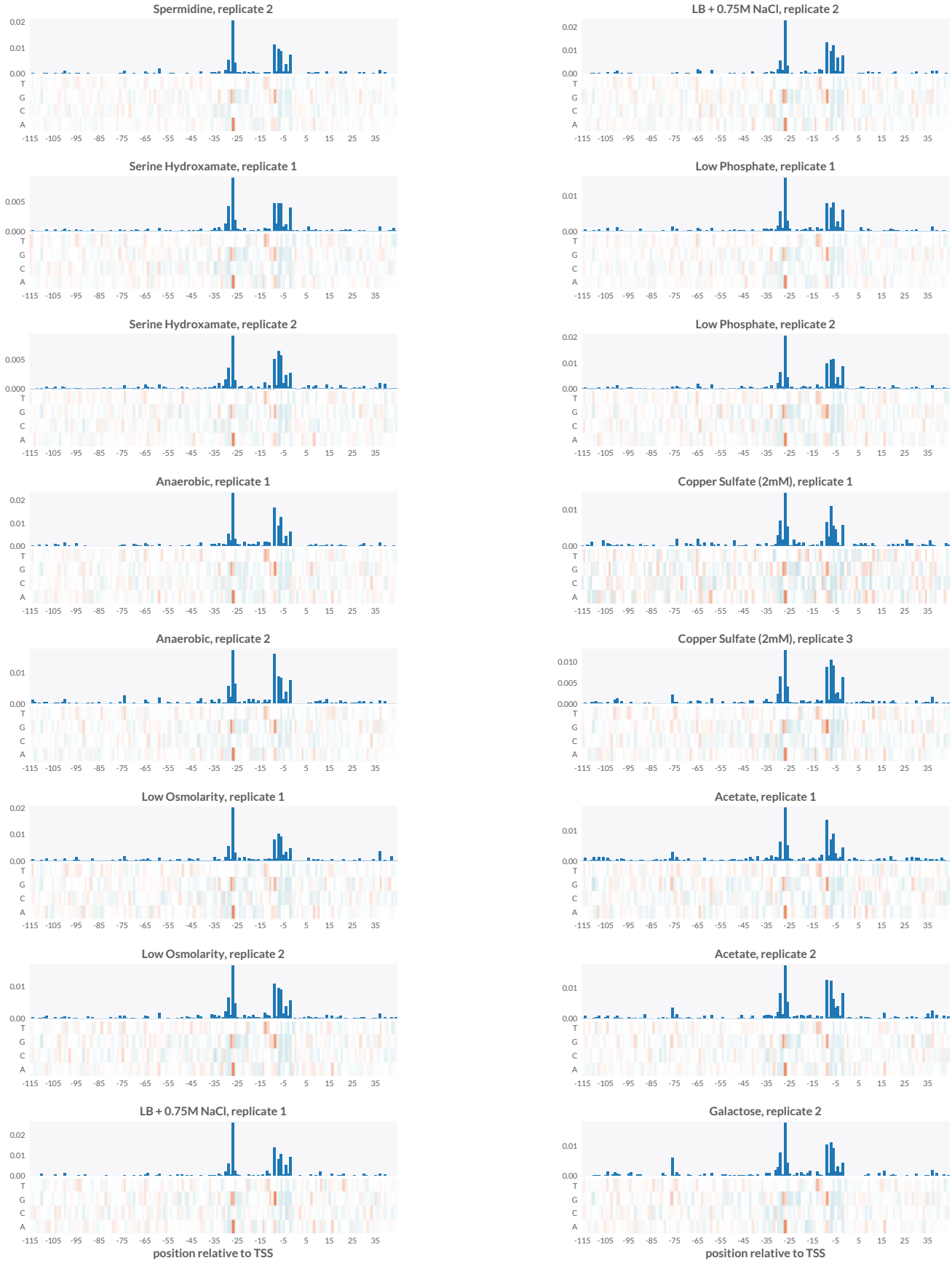

H2O2 (2.5mM, 10min), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

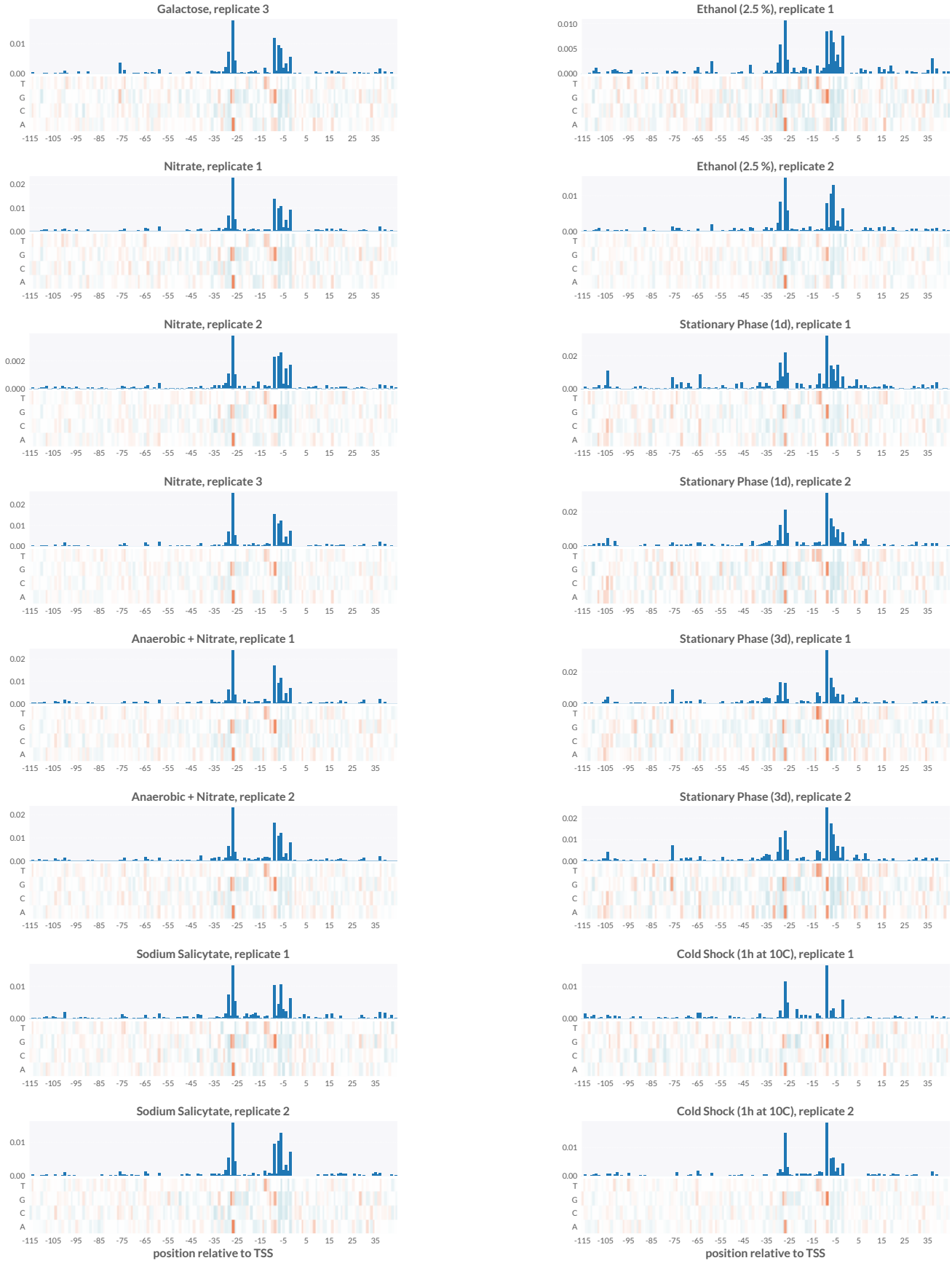

Gentamicin, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Spermidine, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

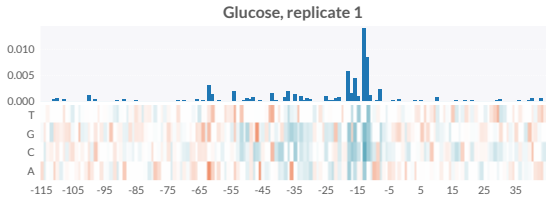
furpb

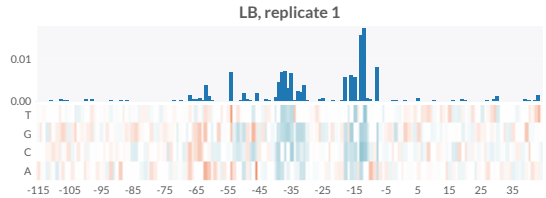

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

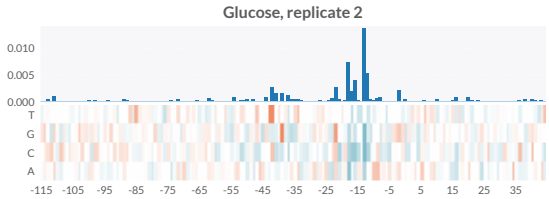
furpb

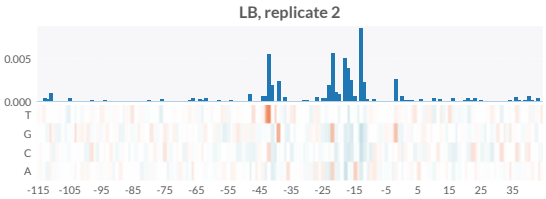

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

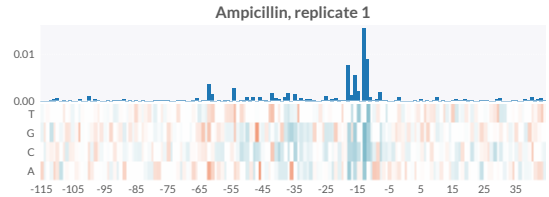
galEp1

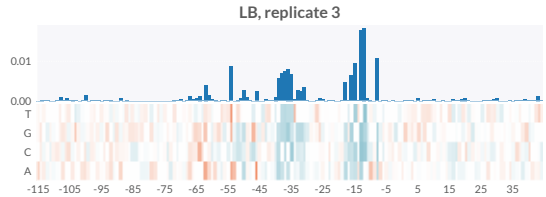

Glucose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

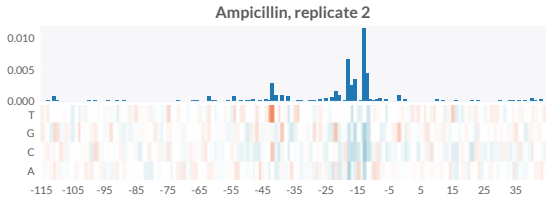

LB, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

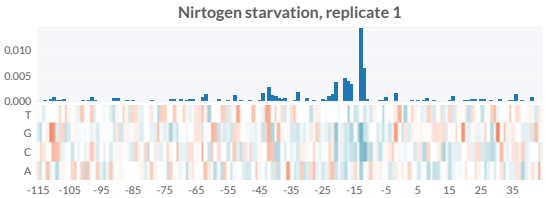

Glucose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

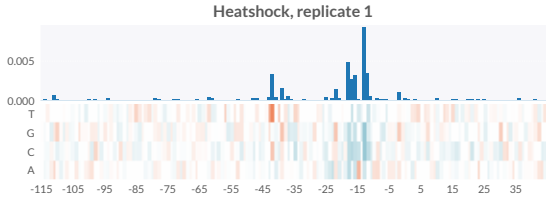

LB, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

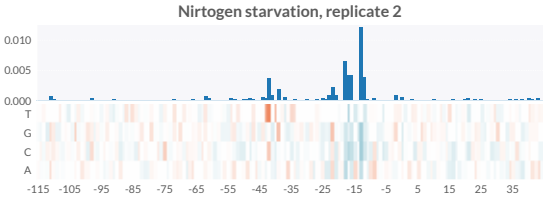

Ampicillin, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

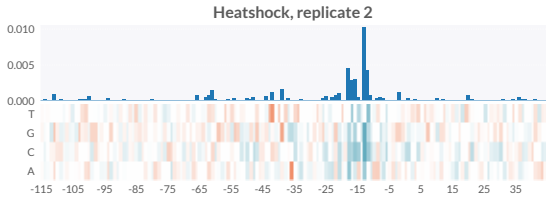

LB, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

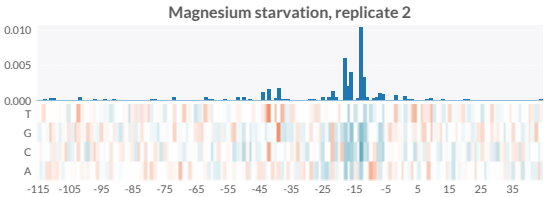

Ampicillin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

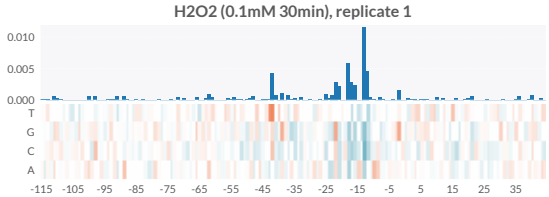

Nirtogen starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

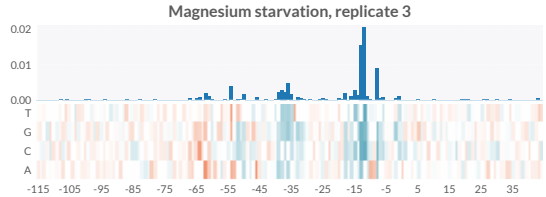

Heatshock, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

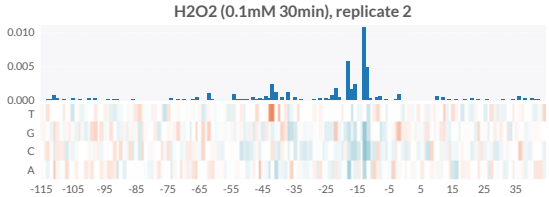

Nirtogen starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

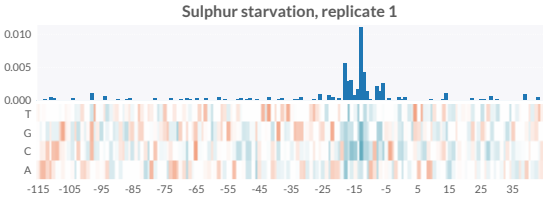

Heatshock, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

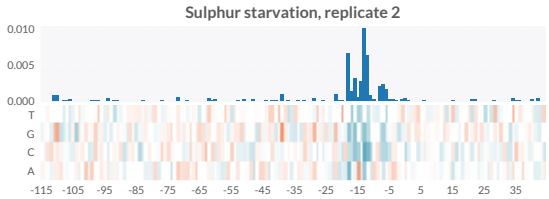

H2O2 (0.1mM 30min), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

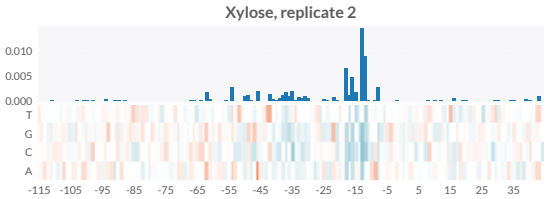

Magnesium starvation, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

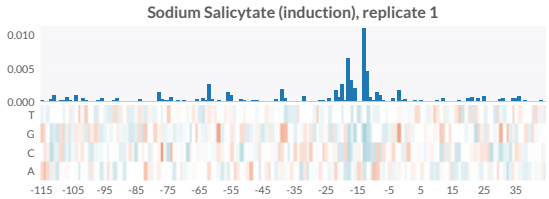

H2O2 (0.1mM 30min), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

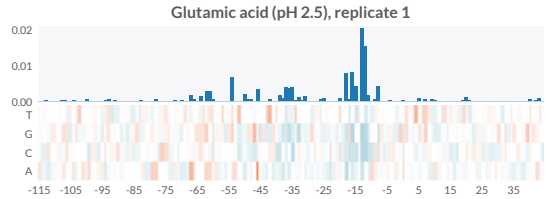

Sulphur starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

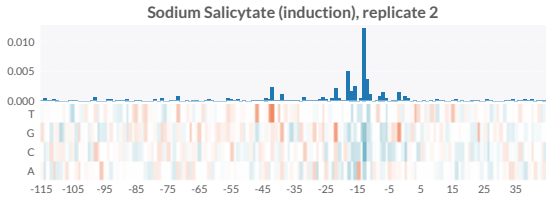
galEp1

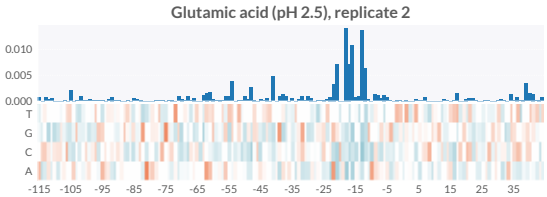

Sulphur starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

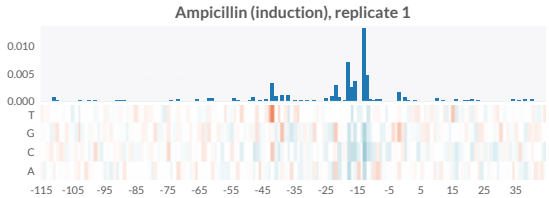

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

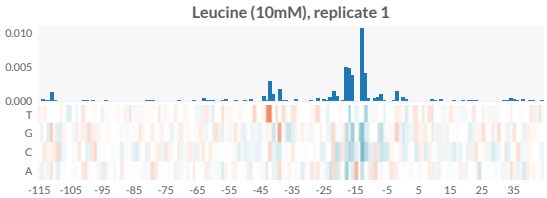

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

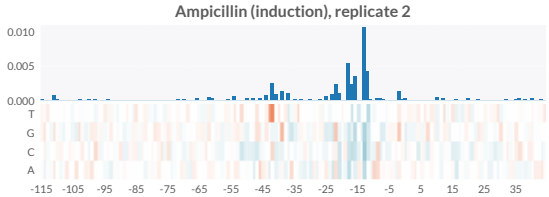

Glutamic acid (pH 2.5), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

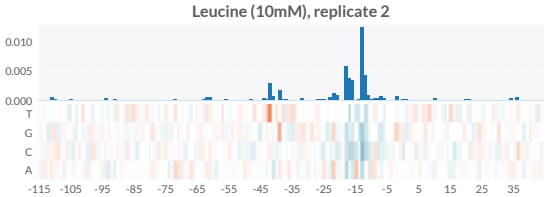

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

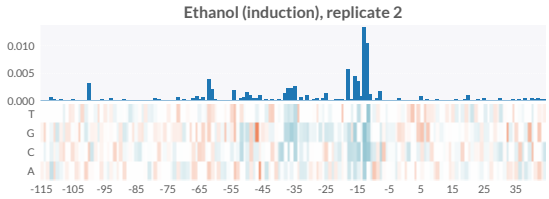

Glutamic acid (pH 2.5), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

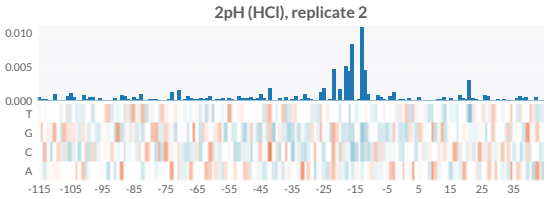

Ampicillin (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

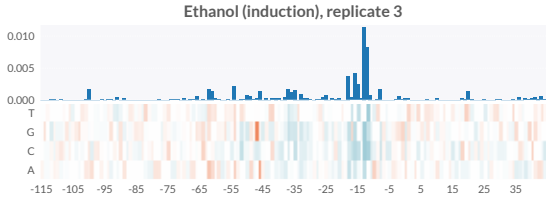

Leucine (10mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

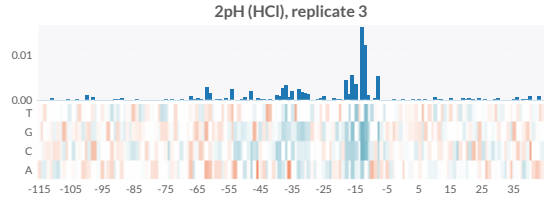

Ampicillin (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

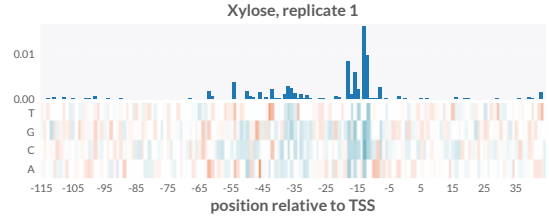

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

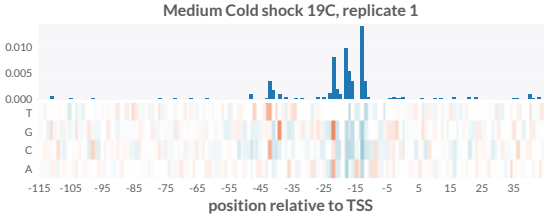

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

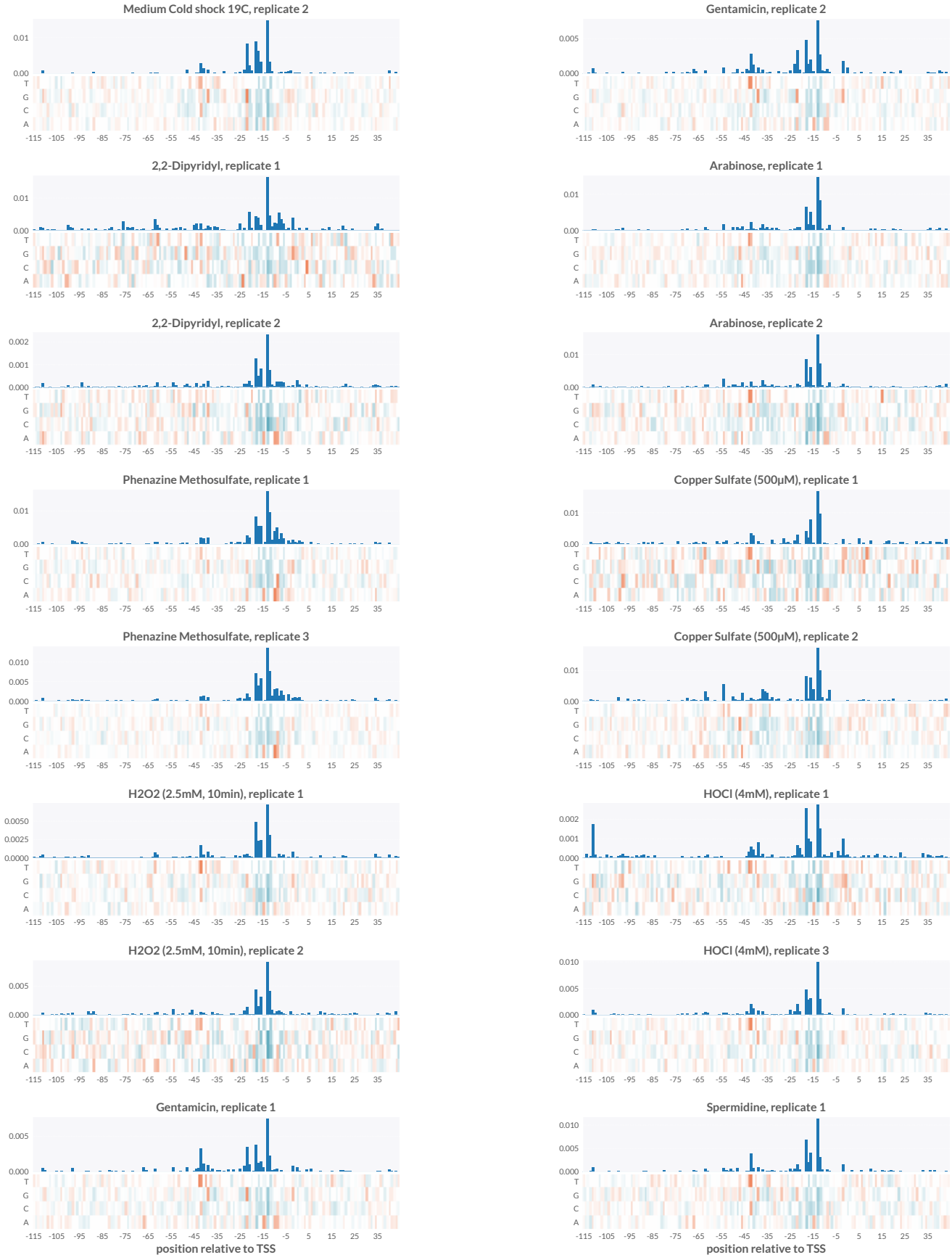

Ethanol (induction), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

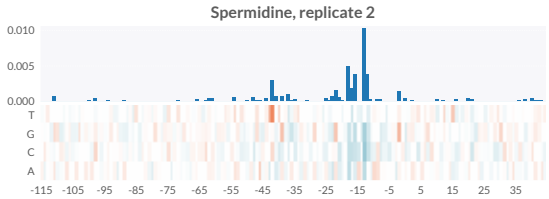

Xylose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

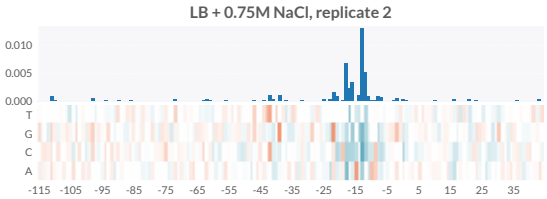

Medium Cold shock 19C, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

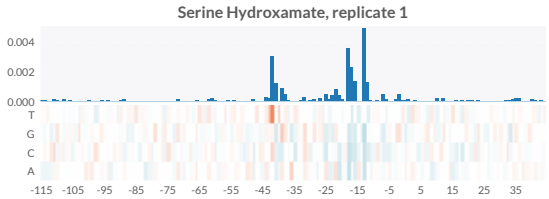
galEp1

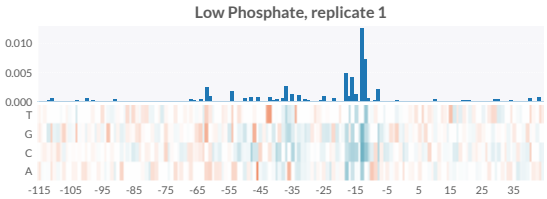

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

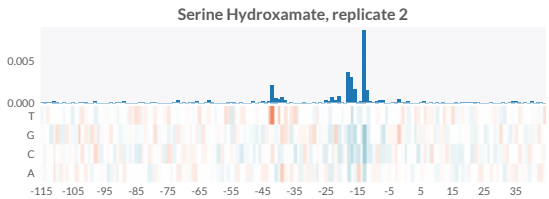
galEp1

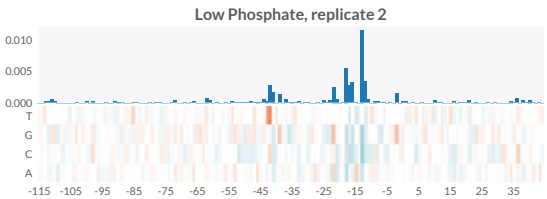

Spermidine, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

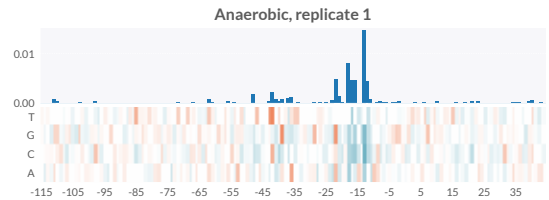

LB + 0.75M NaCl, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

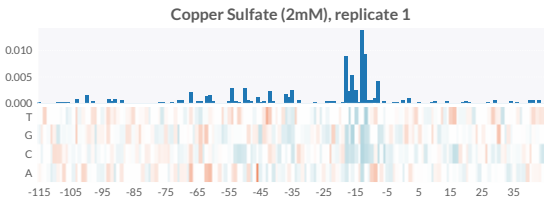

Serine Hydroxamate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

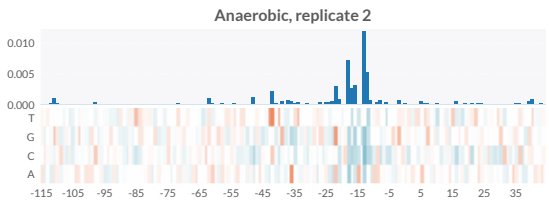

Low Phosphate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

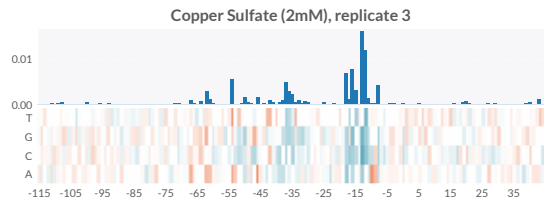

Serine Hydroxamate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

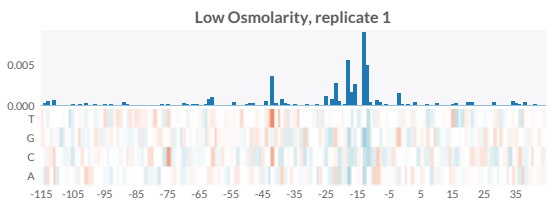

Low Phosphate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

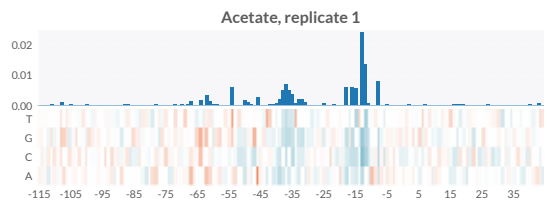

Anaerobic, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

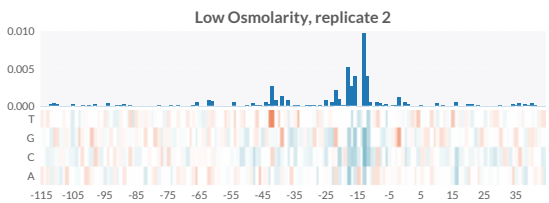

Copper Sulfate (2mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

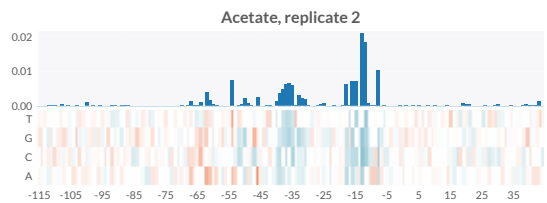

Anaerobic, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

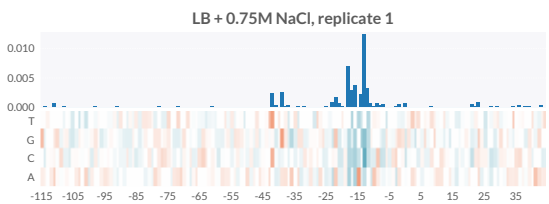

Copper Sulfate (2mM), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

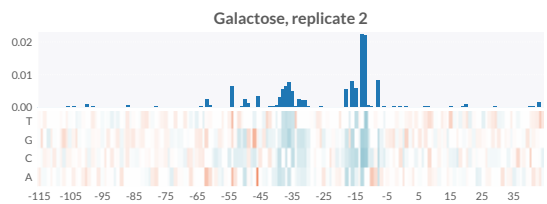

Low Osmolarity, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

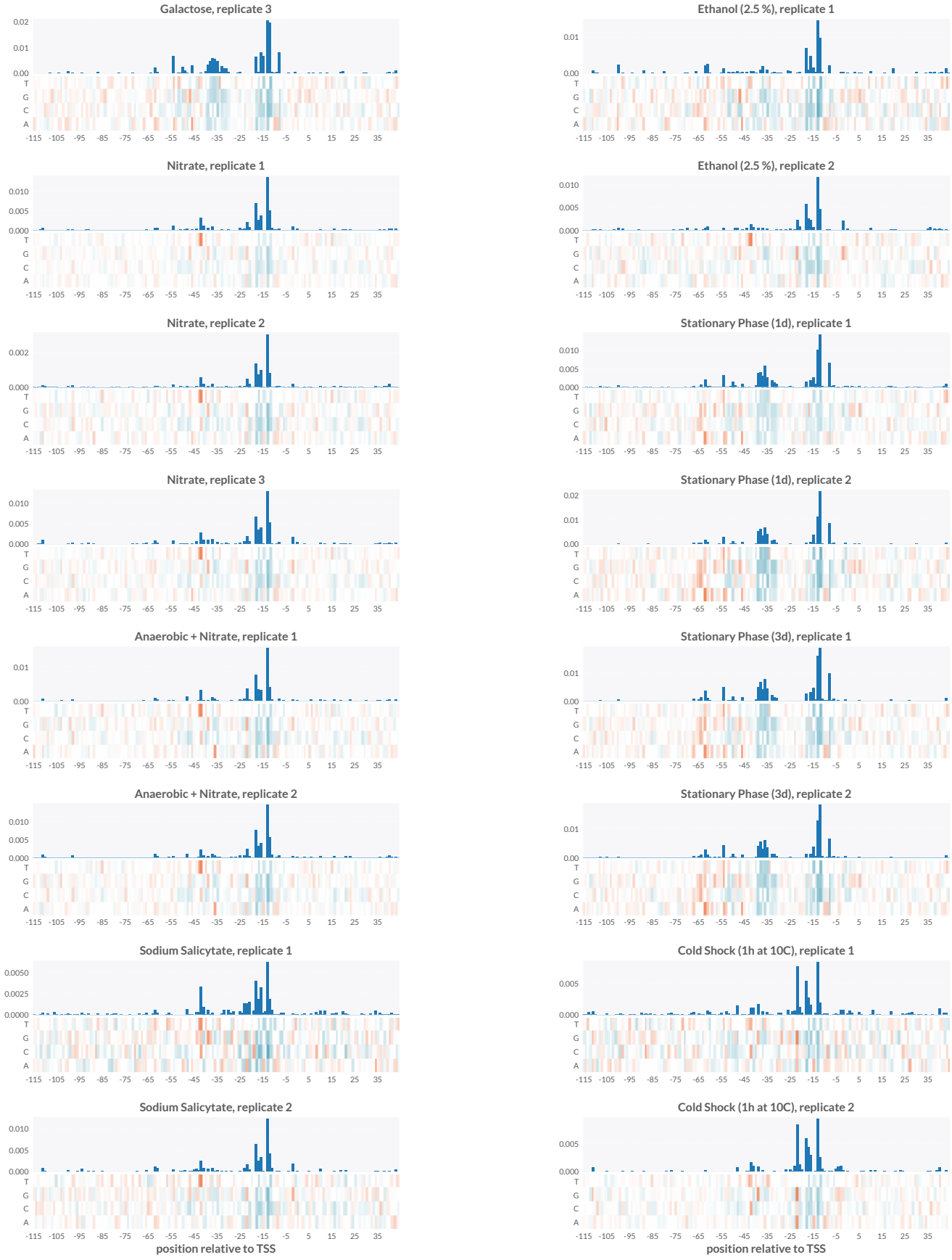

Low Osmolarity, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

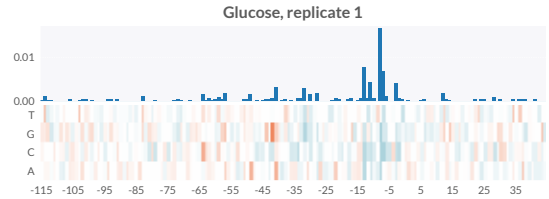

LB + 0.75M NaCl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

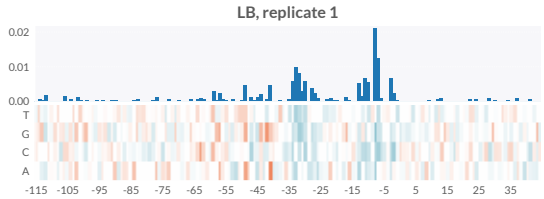

Galactose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

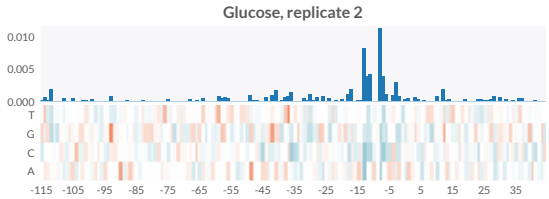
galEp1

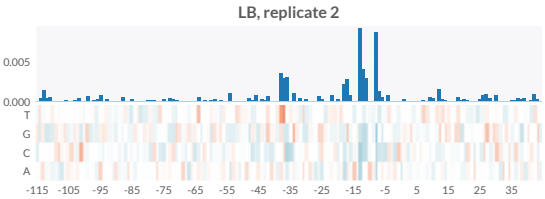

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

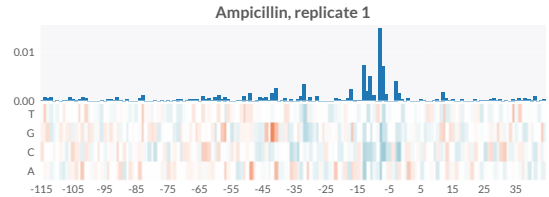
galEp2

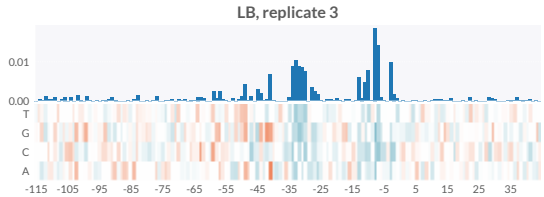

Glucose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

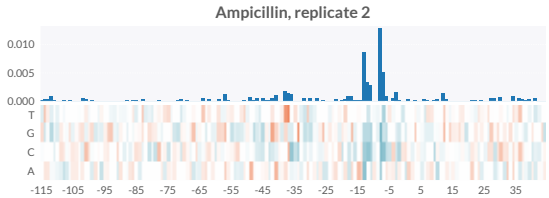

LB, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

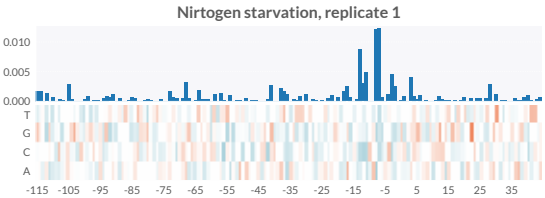

Glucose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

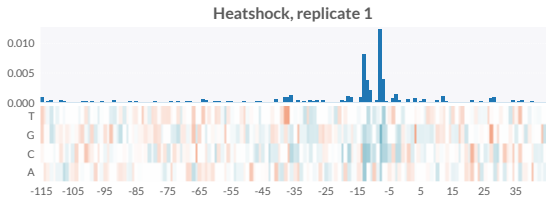

LB, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

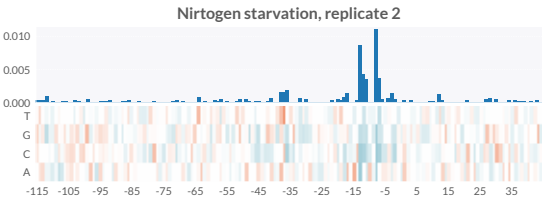

Ampicillin, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

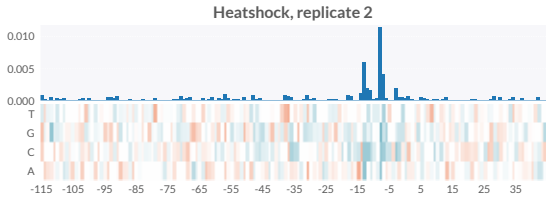

LB, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

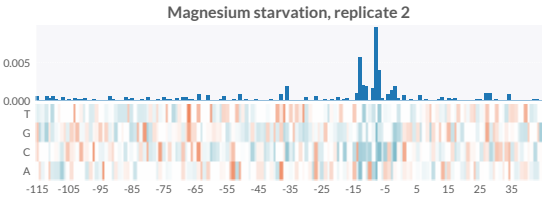

Ampicillin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

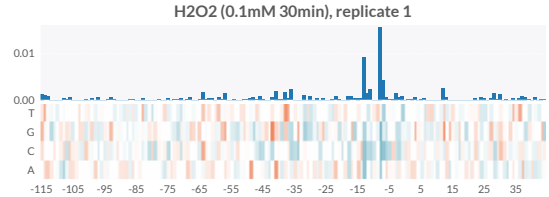

Nirtogen starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

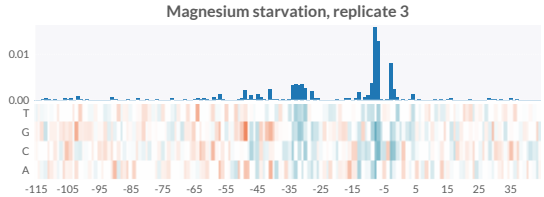

Heatshock, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

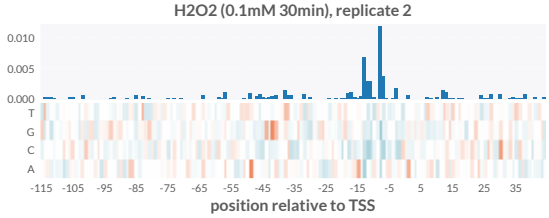

Nirtogen starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

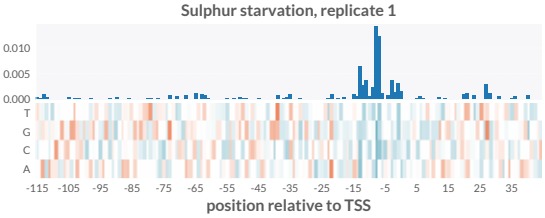

Heatshock, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

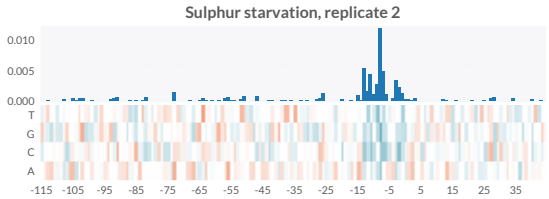

H2O2 (0.1mM 30min), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

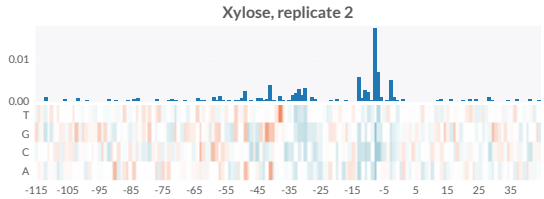

Magnesium starvation, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

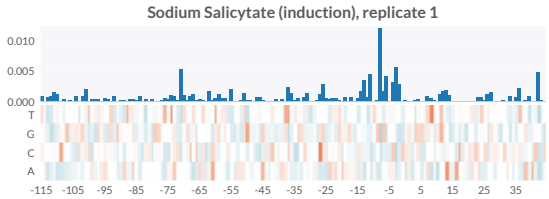

H2O2 (0.1mM 30min), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

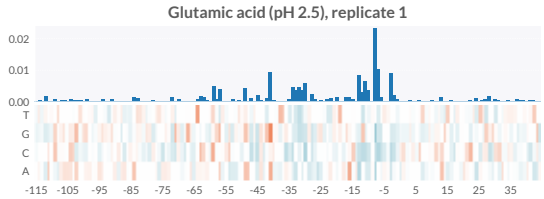

Sulphur starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

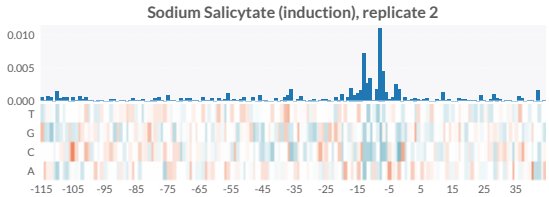
galEp2

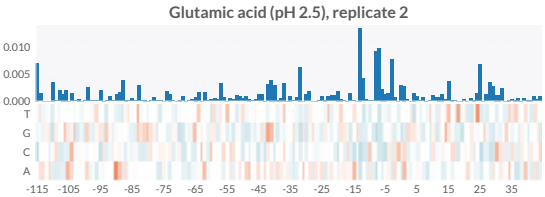

Sulphur starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

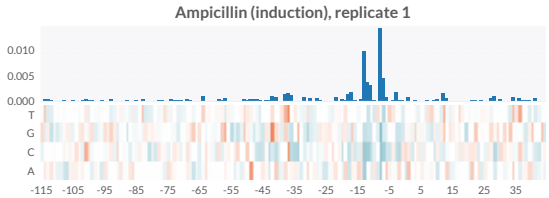

Xylose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

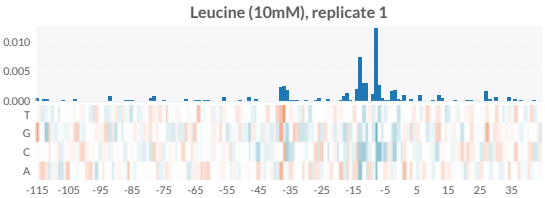

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

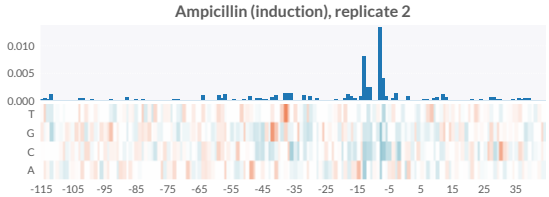

Glutamic acid (pH 2.5), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

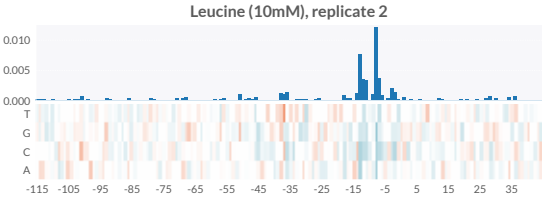

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

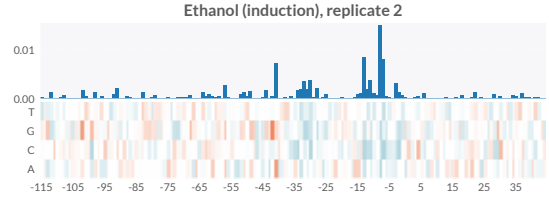

Glutamic acid (pH 2.5), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

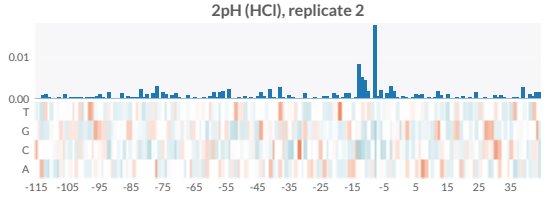

Ampicillin (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

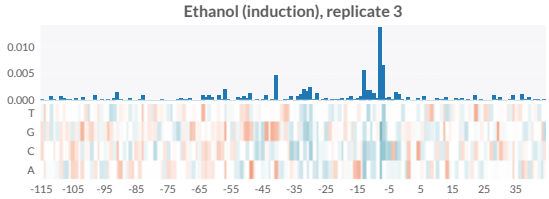

Leucine (10mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

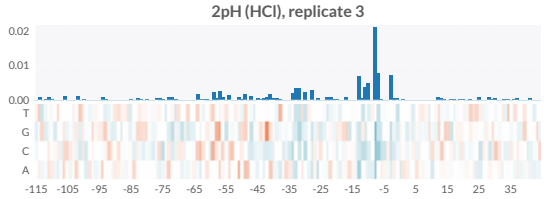

Ampicillin (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

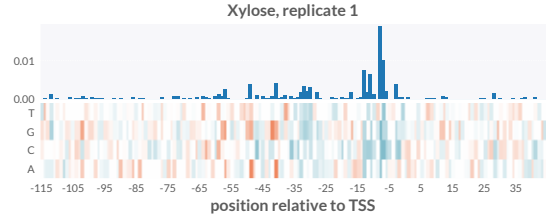

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

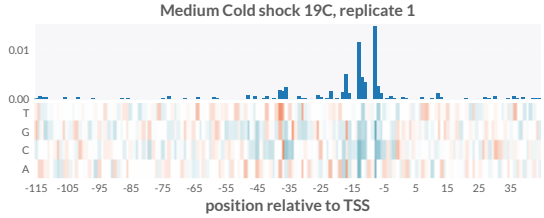

Ethanol (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

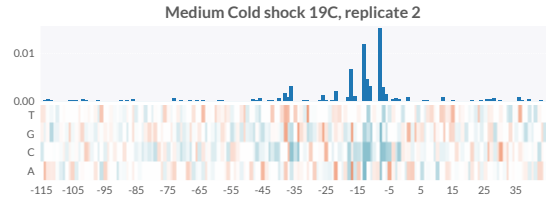

Ethanol (induction), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

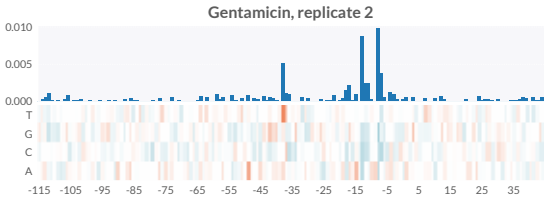

2pH (HCl), replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

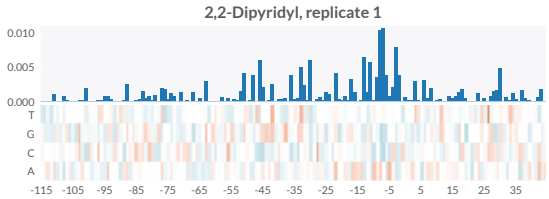

Xylose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

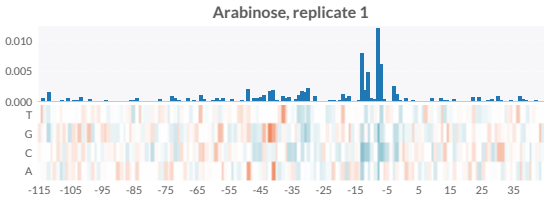

Medium Cold shock 19C, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

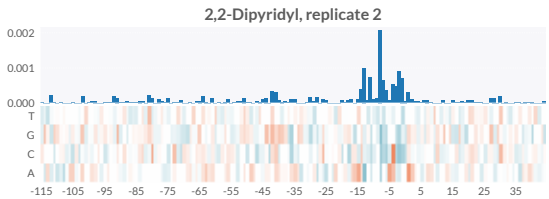
galEp2

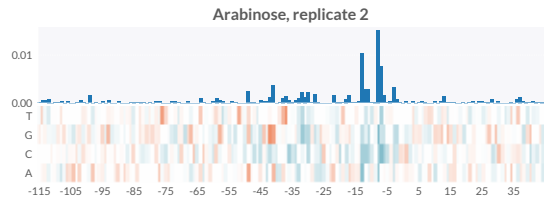

Medium Cold shock 19C, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

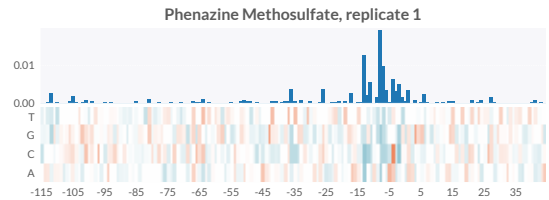

Gentamicin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

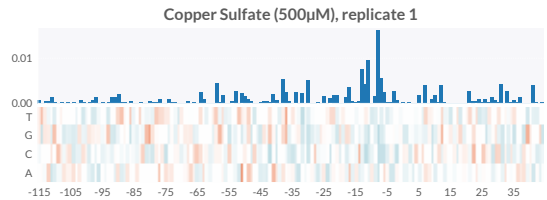

2,2-Dipyridyl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

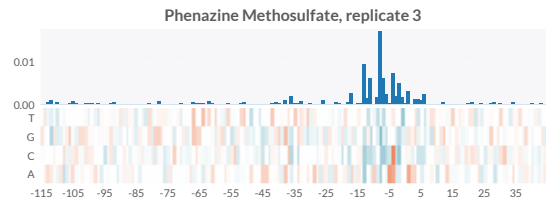

Arabinose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

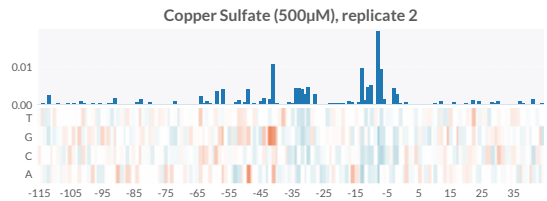

2,2-Dipyridyl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

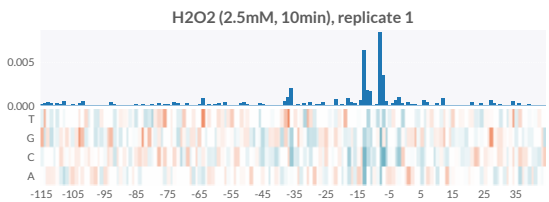

Arabinose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

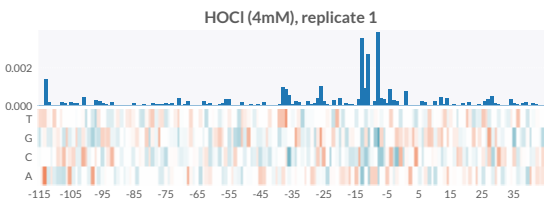

Phenazine Methosulfate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

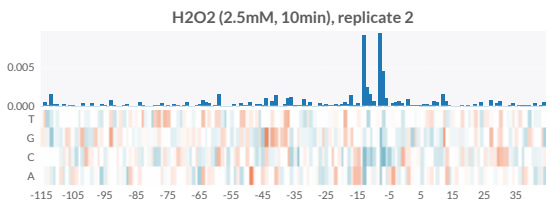

Copper Sulfate (500µM), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

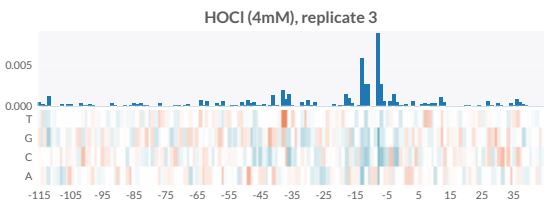

Phenazine Methosulfate, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

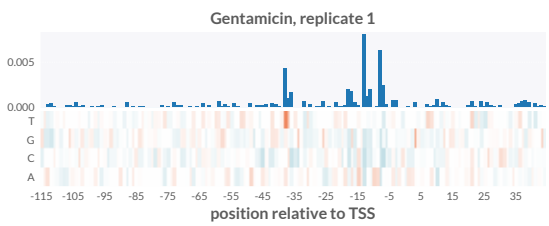

Copper Sulfate (500µM), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

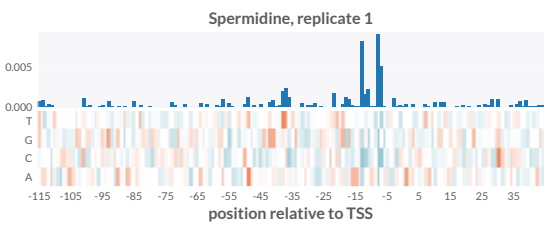

H2O2 (2.5mM, 10min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

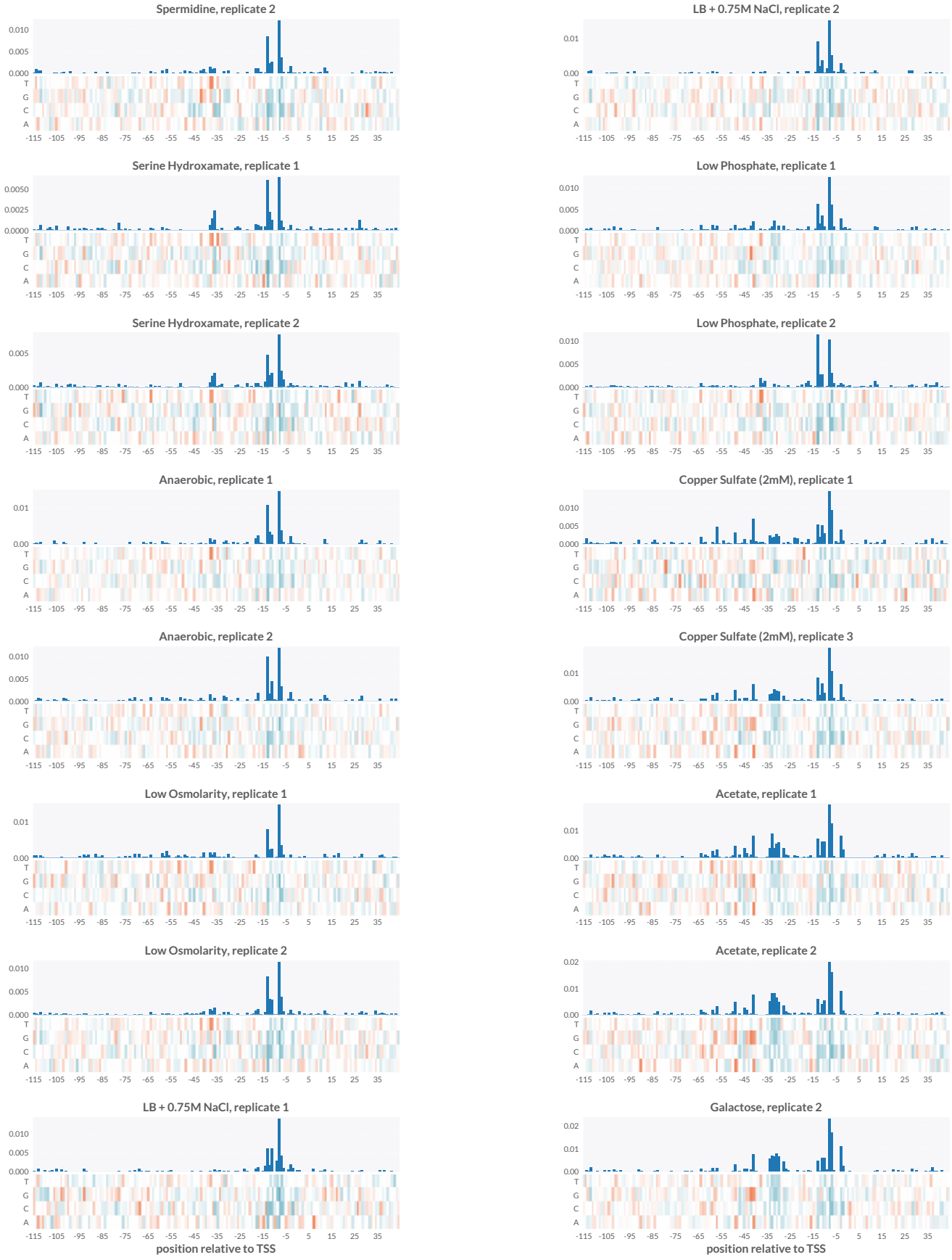

H2O2 (2.5mM, 10min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Gentamicin, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Spermidine, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

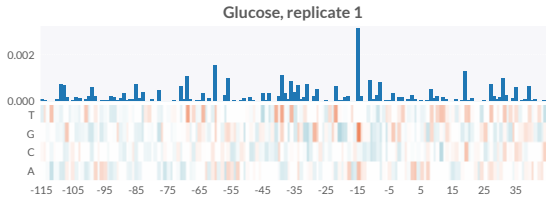
galEp2

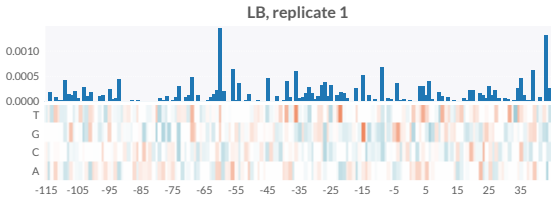

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

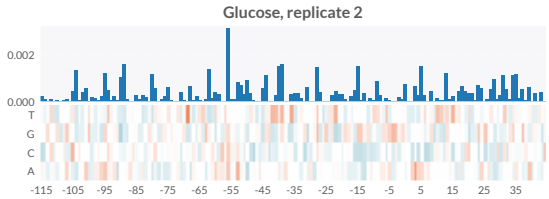
galEp2

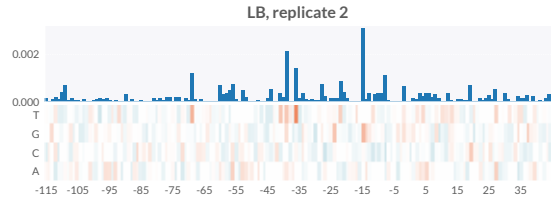

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

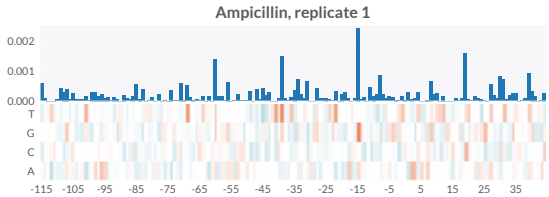
galEp3

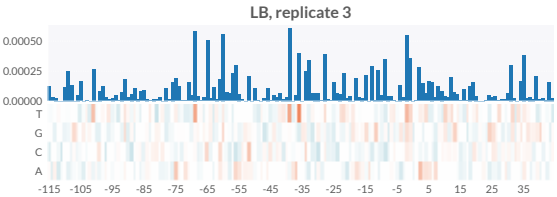

Glucose, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

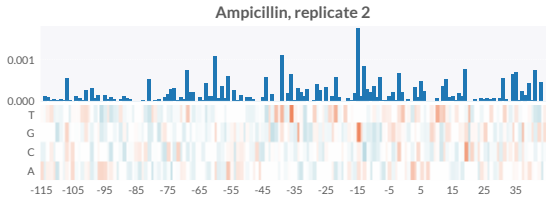

LB, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

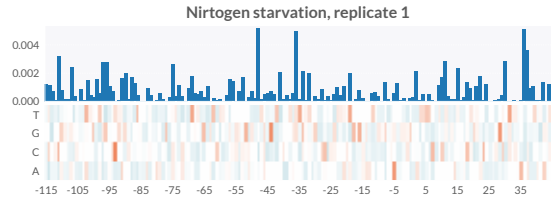

Glucose, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

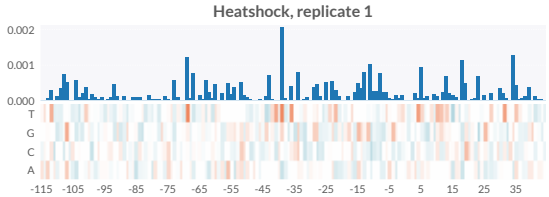

LB, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

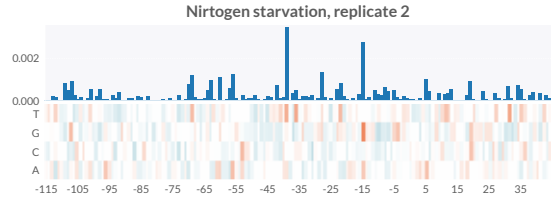

Ampicillin, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

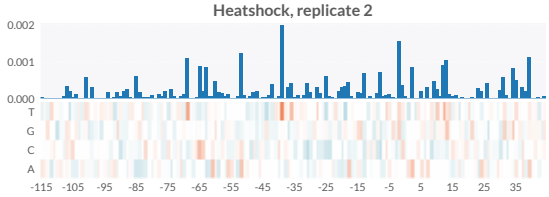

LB, replicate 3
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

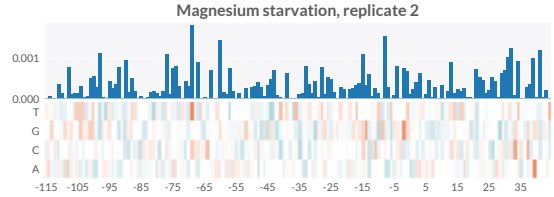

Ampicillin, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

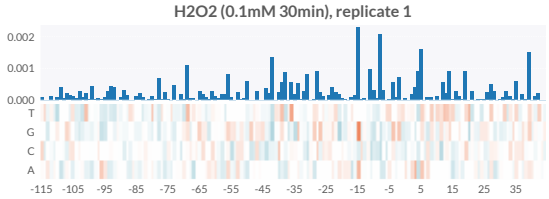

Nirtogen starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

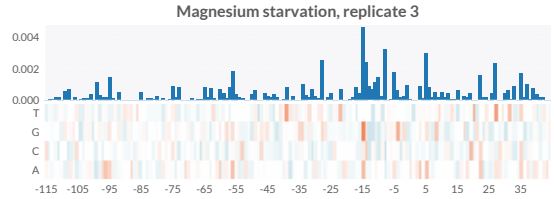

Heatshock, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

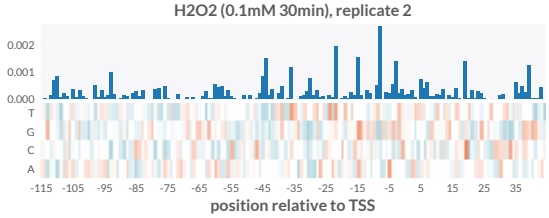

Nirtogen starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

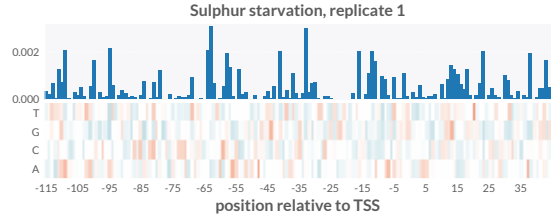

Heatshock, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

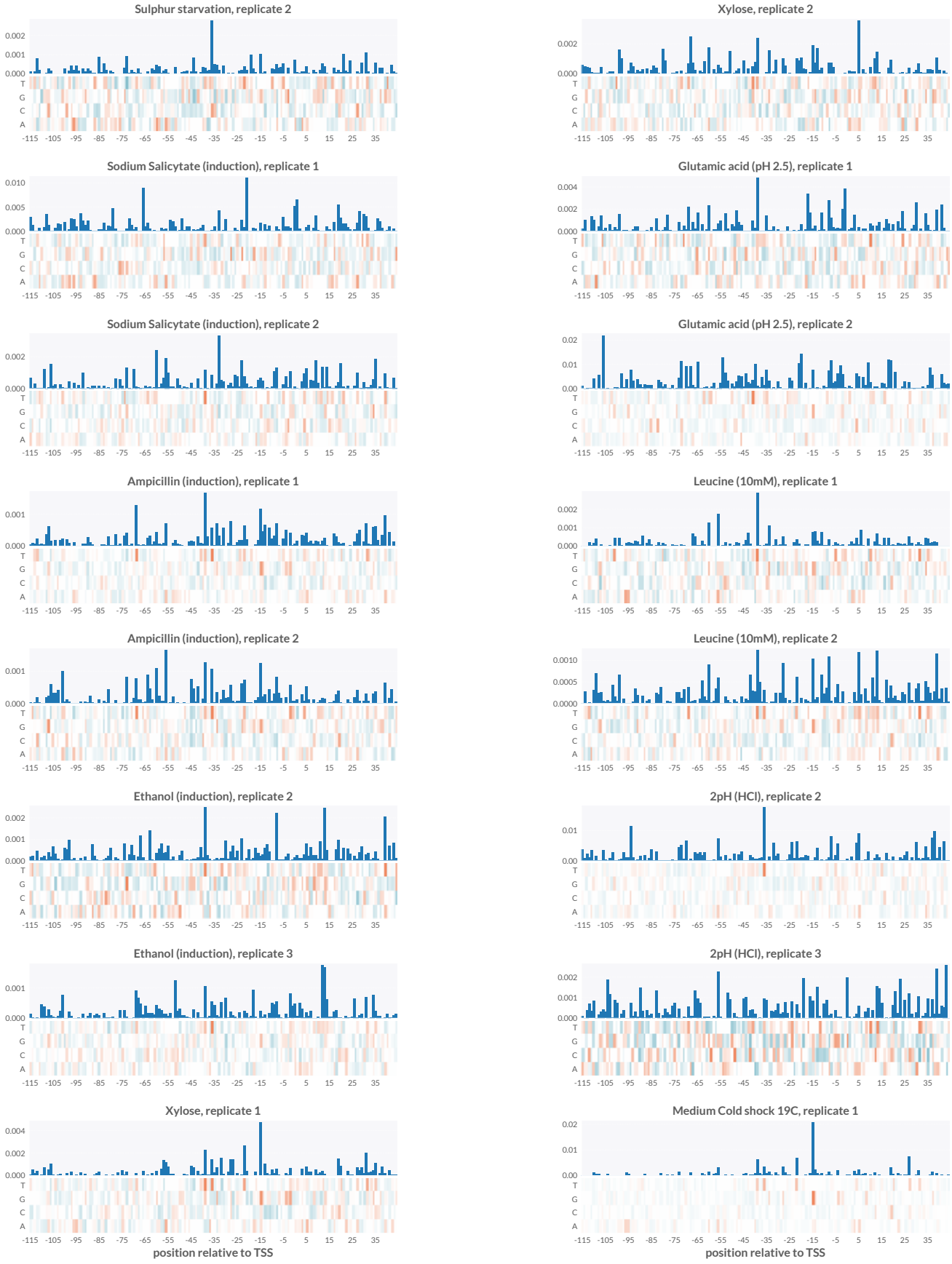

H2O2 (0.1mM 30min), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

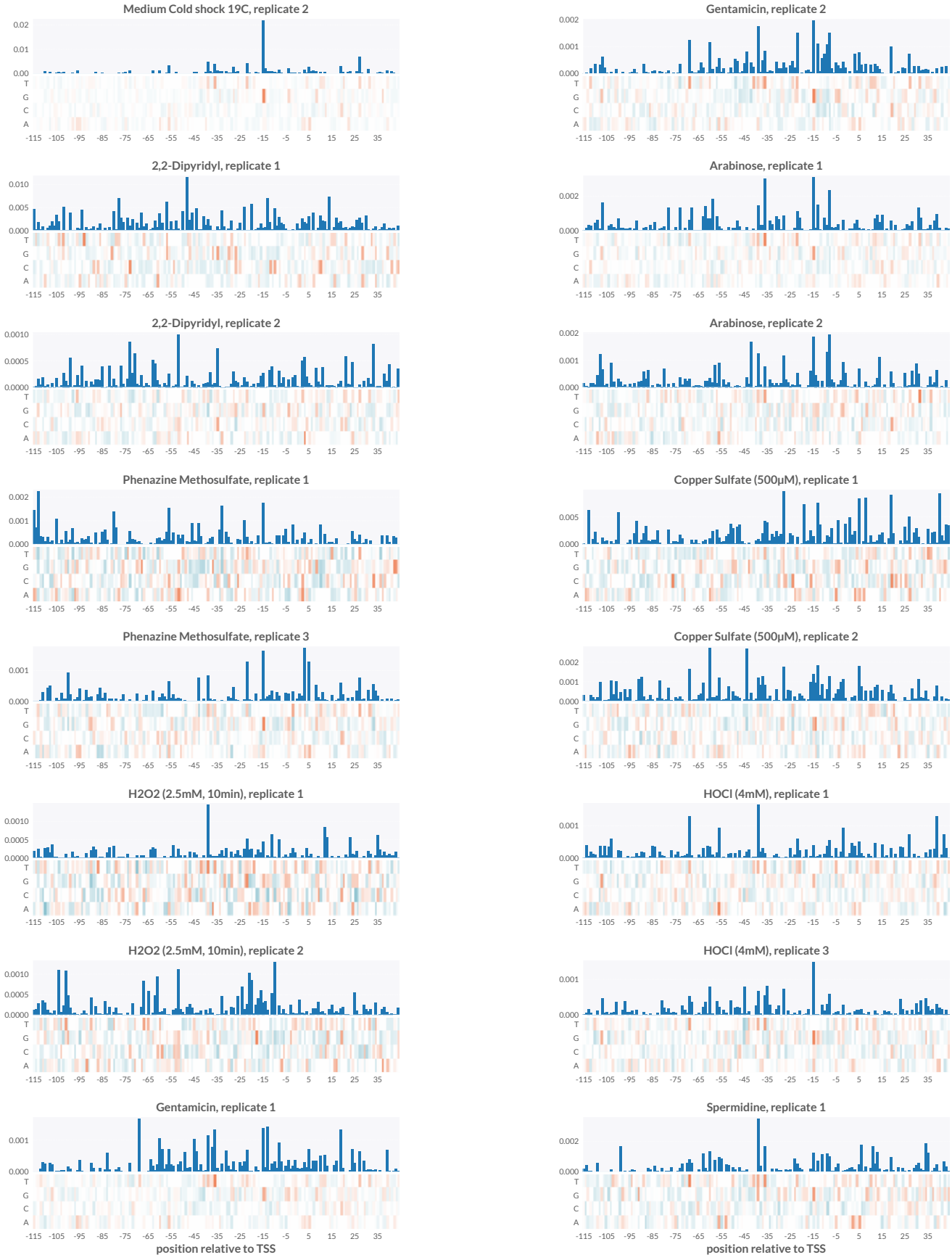

H2O2 (0.1mM 30min), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Sulphur starvation, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

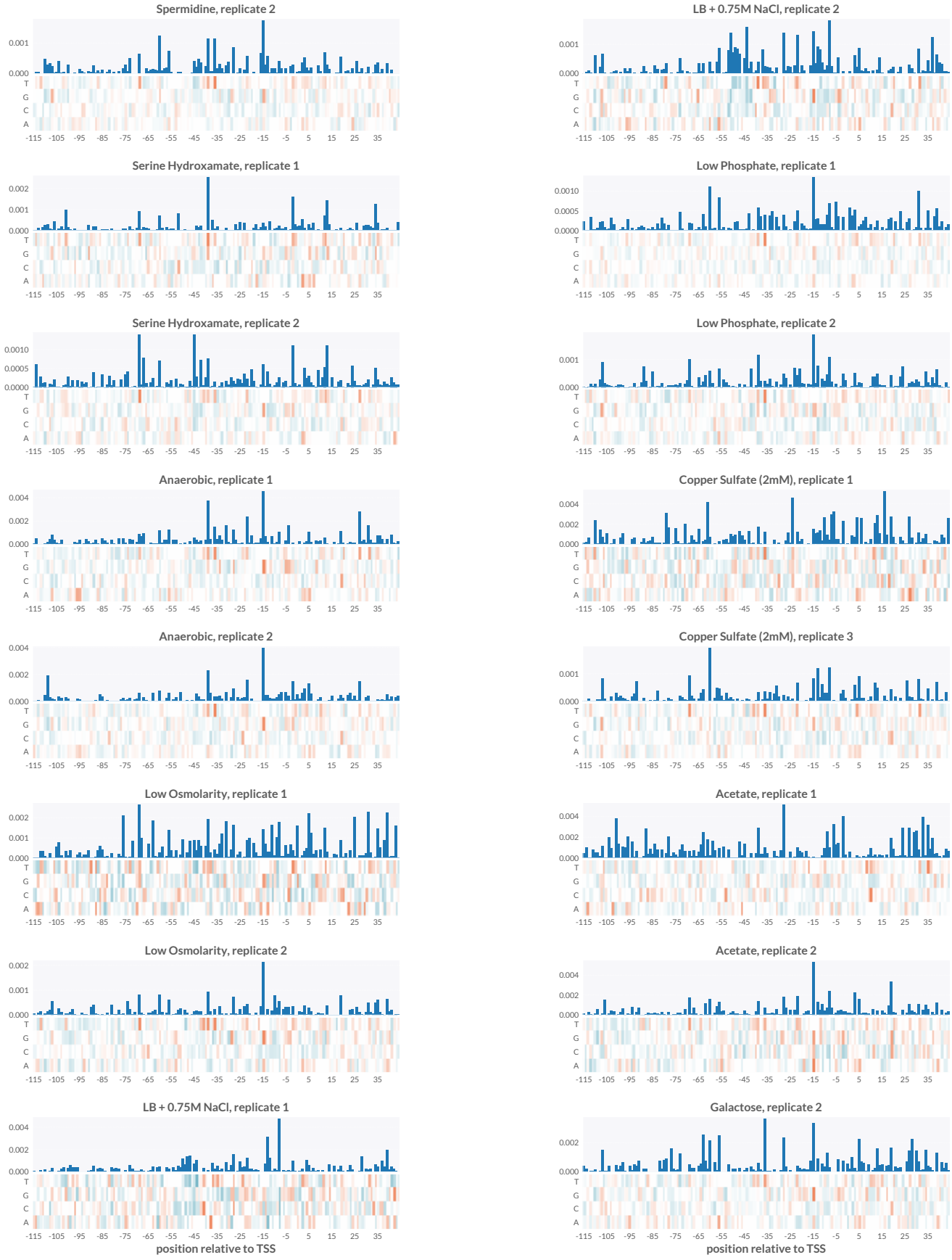
galEp3


Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

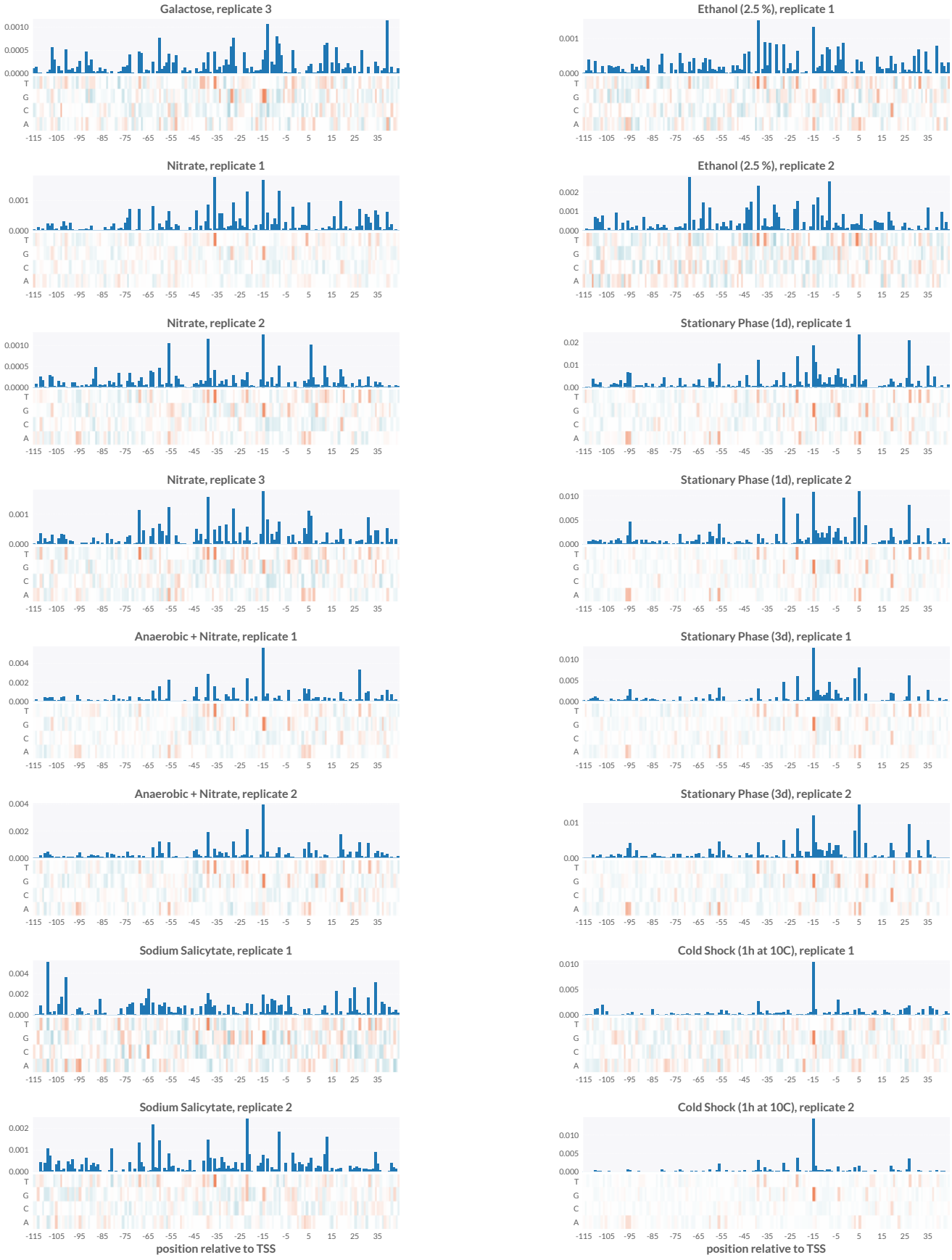
galEp3


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

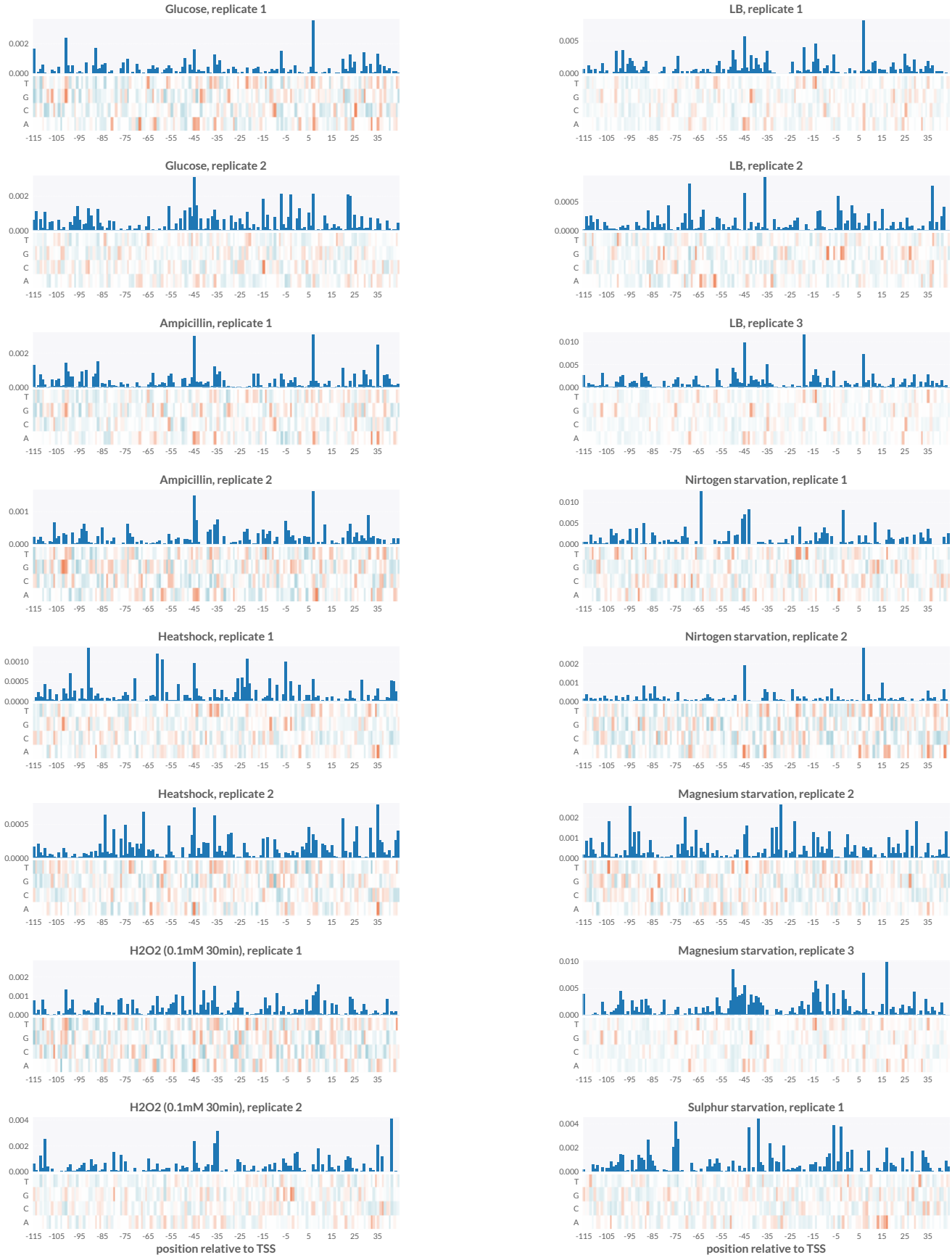
galEp3


Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

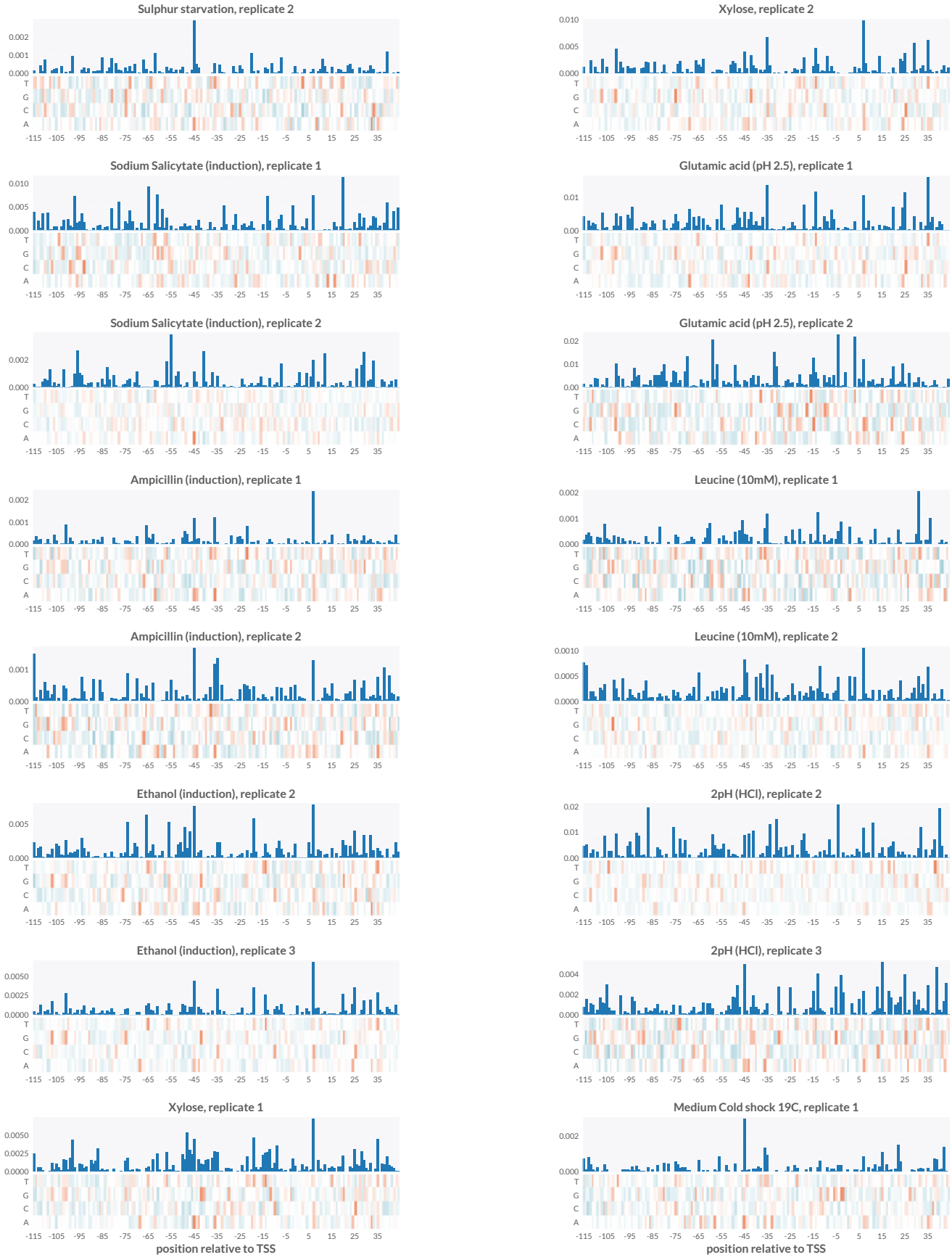
galEp3


Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

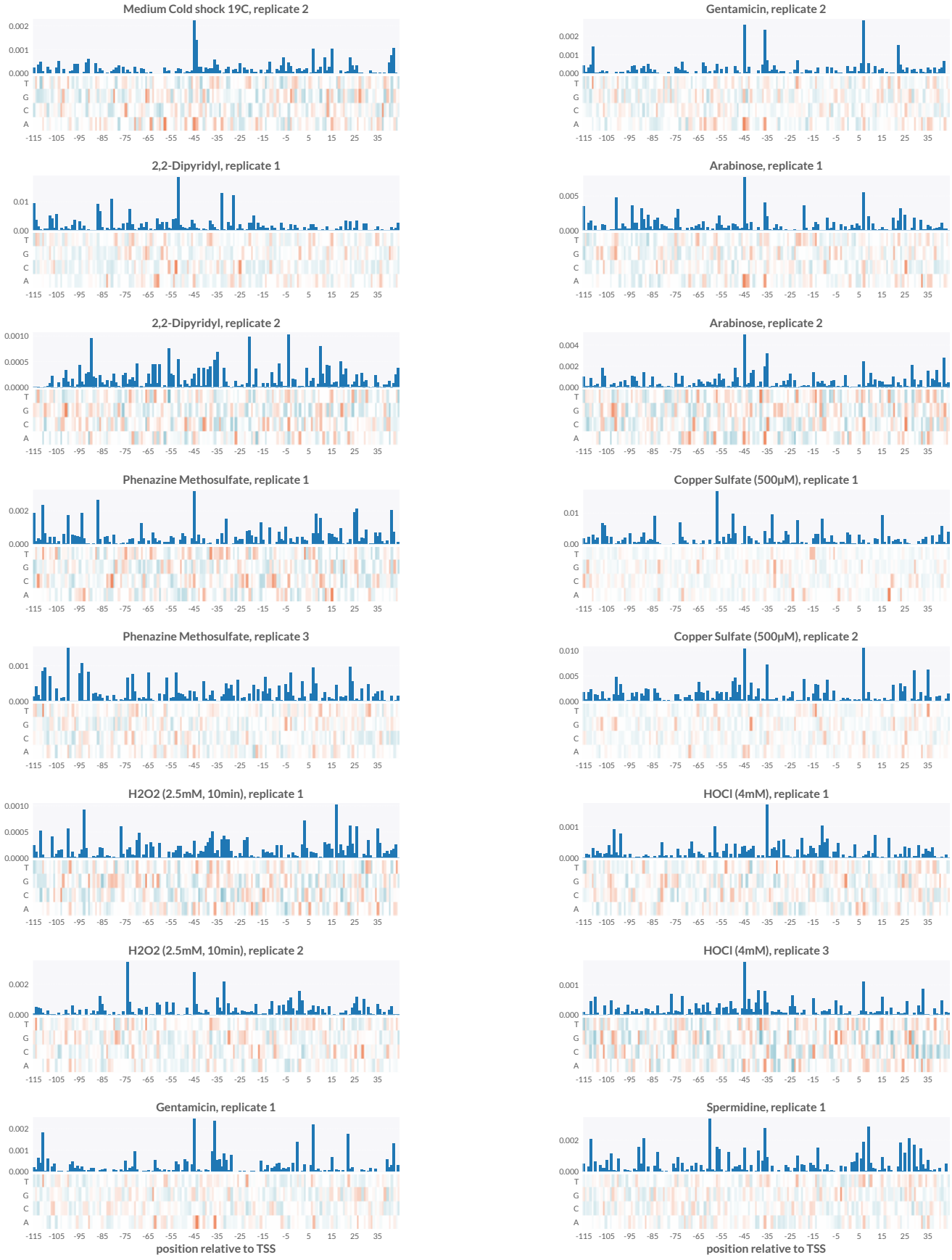
galSp


Glucose, replicate 1
Glucose, replicate 2
Ampicillin, replicate 1
Ampicillin, replicate 2
Heatshock, replicate 1
Heatshock, replicate 2
H2O2 (0.1mM 30min), replicate 1
H2O2 (0.1mM 30min), replicate 2
LB, replicate 1
LB, replicate 2
LB, replicate 3
Nirtogen starvation, replicate 1
Nirtogen starvation, replicate 2
Magnesium starvation, replicate 2
Magnesium starvation, replicate 3
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

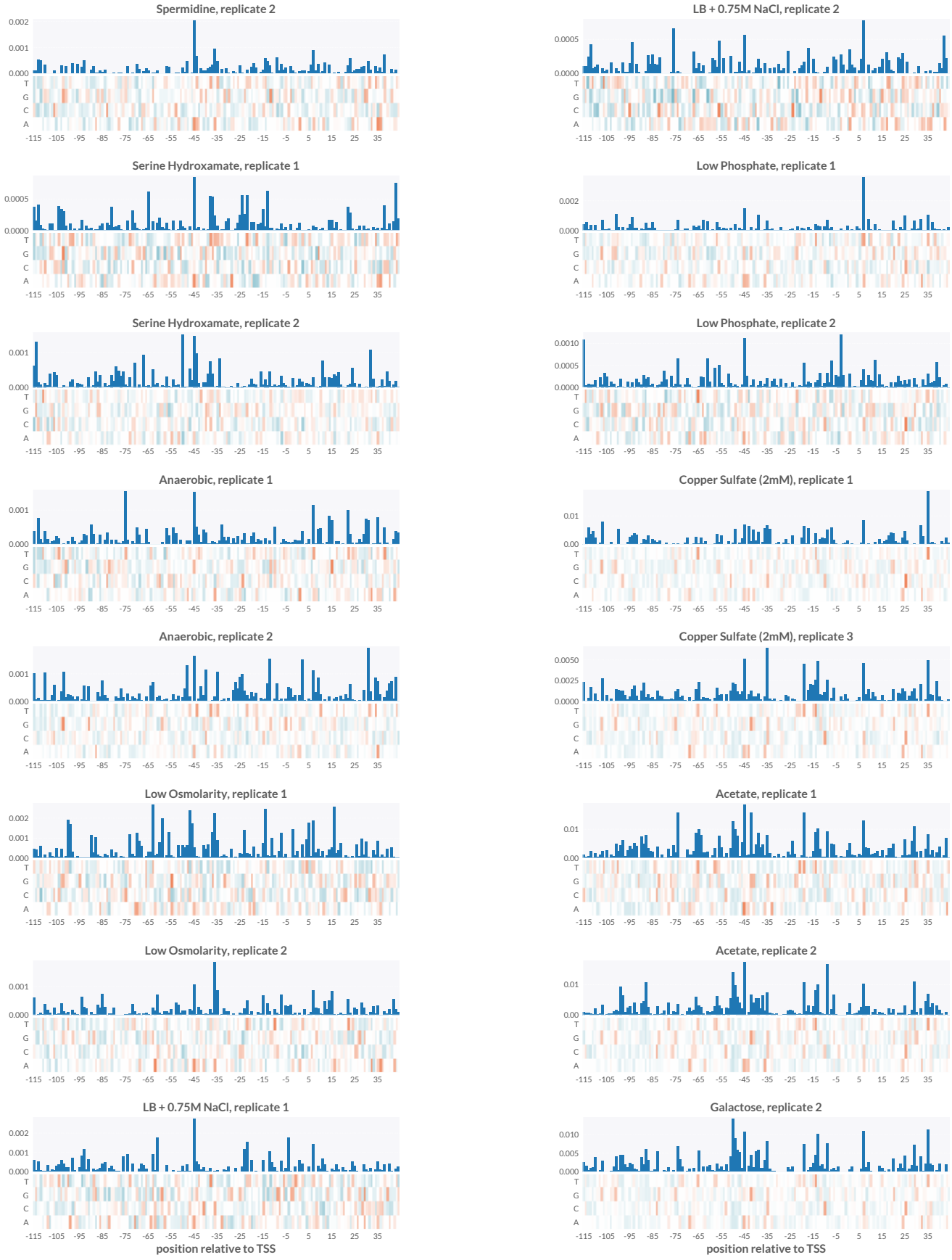
galSp


Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

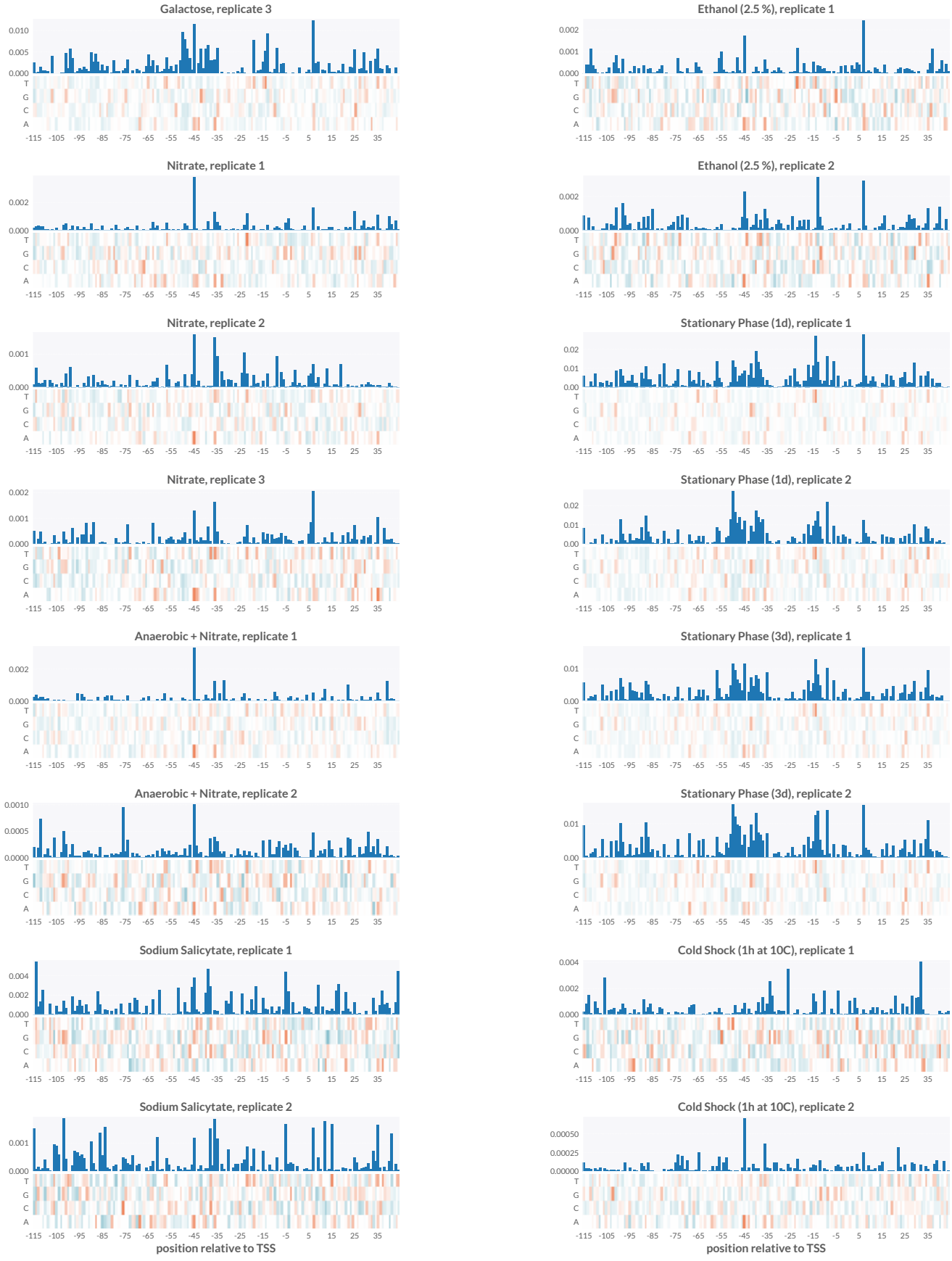
galSp


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

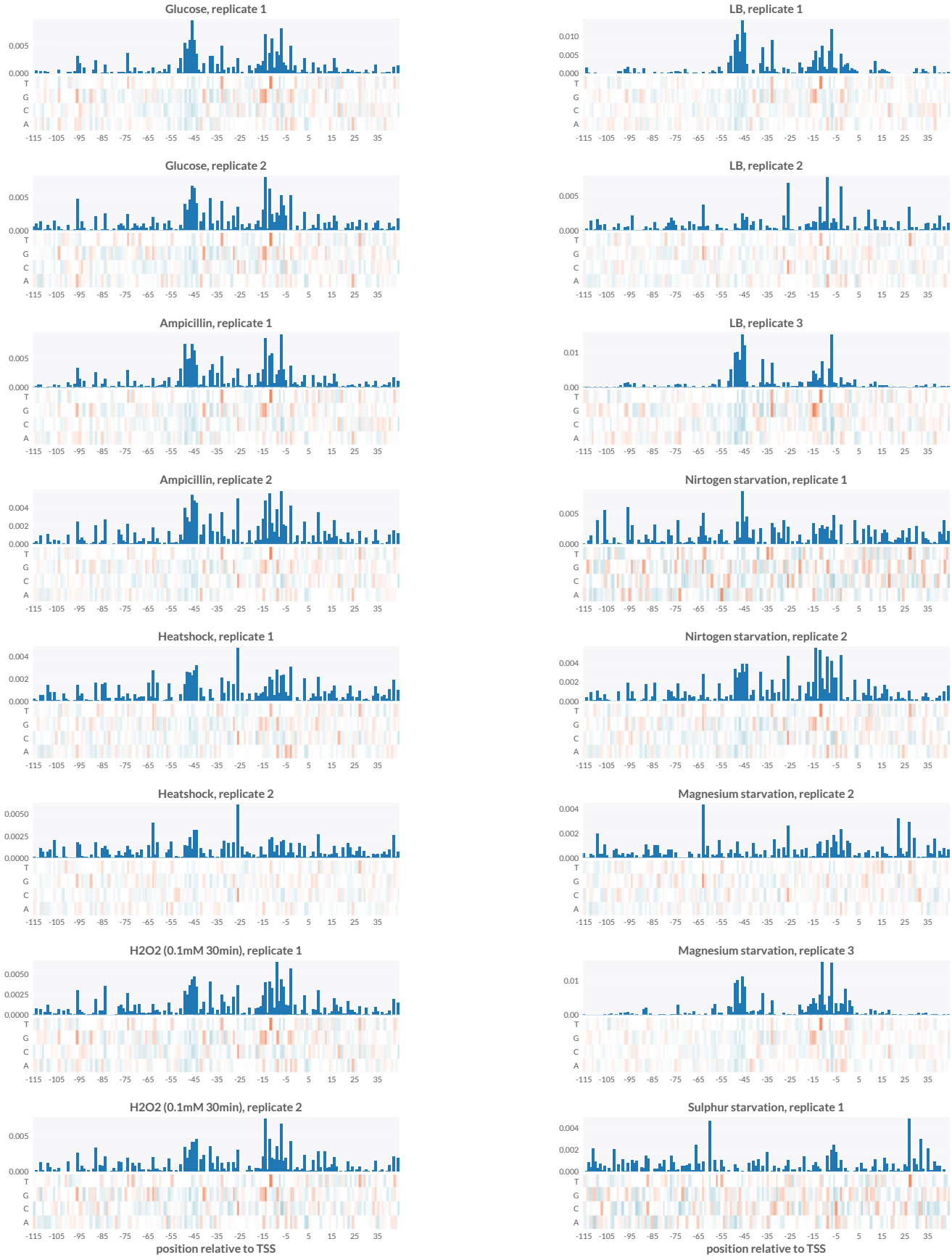
galSp


Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

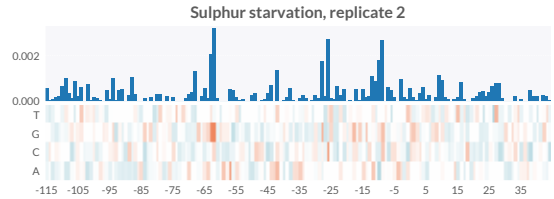
galSp

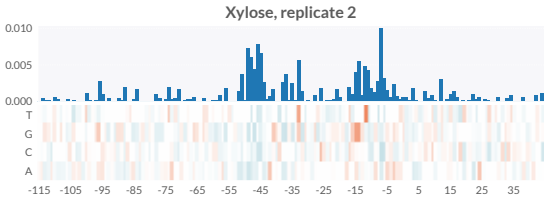

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

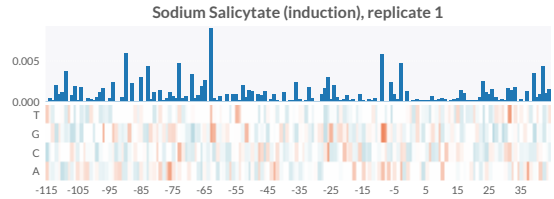
gatYp

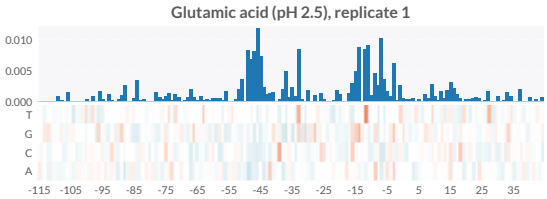

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

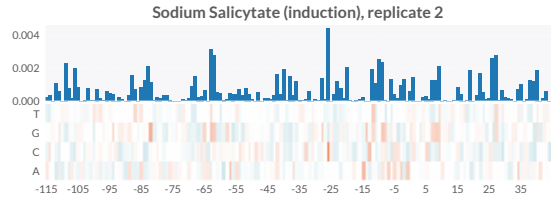
gatYp

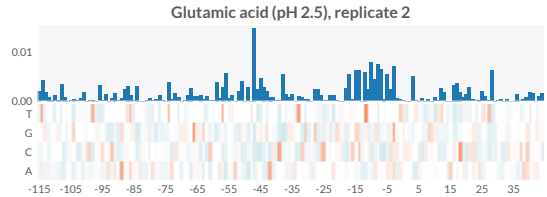

Sulphur starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

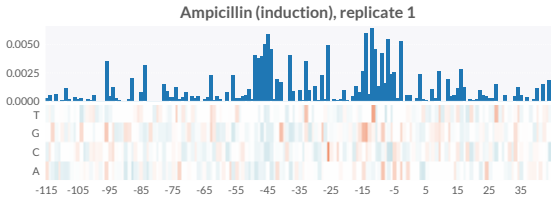

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

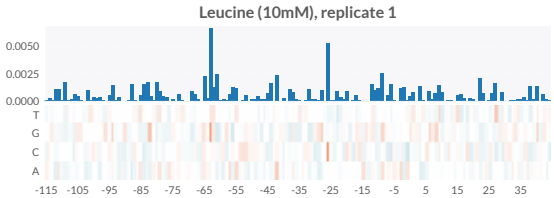

Sodium Salicytate (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

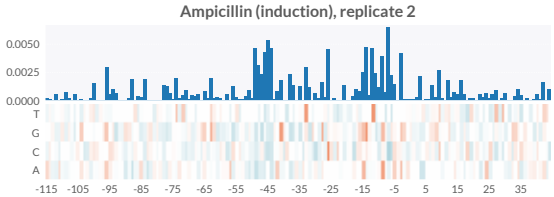

Glutamic acid (pH 2.5), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

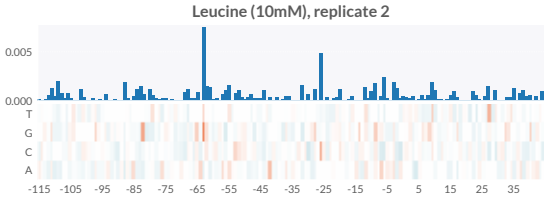

Sodium Salicytate (induction), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

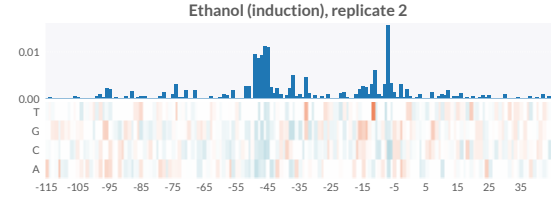

Glutamic acid (pH 2.5), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

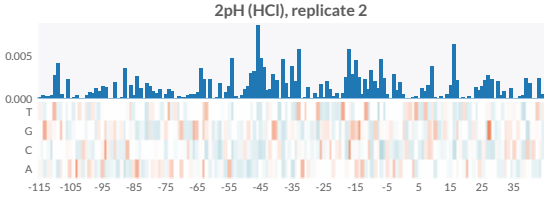

Ampicillin (induction), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

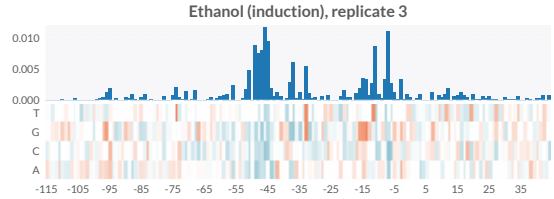

Leucine (10mM), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

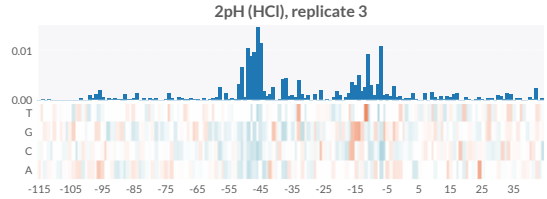

Ampicillin (induction), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

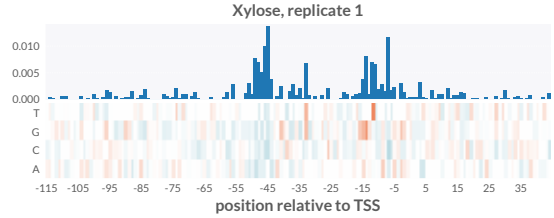

Leucine (10mM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

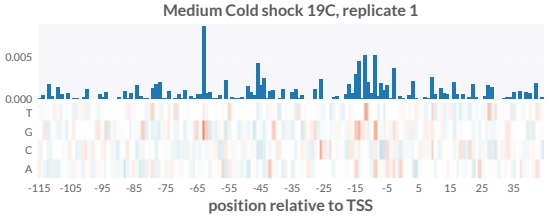

Ethanol (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

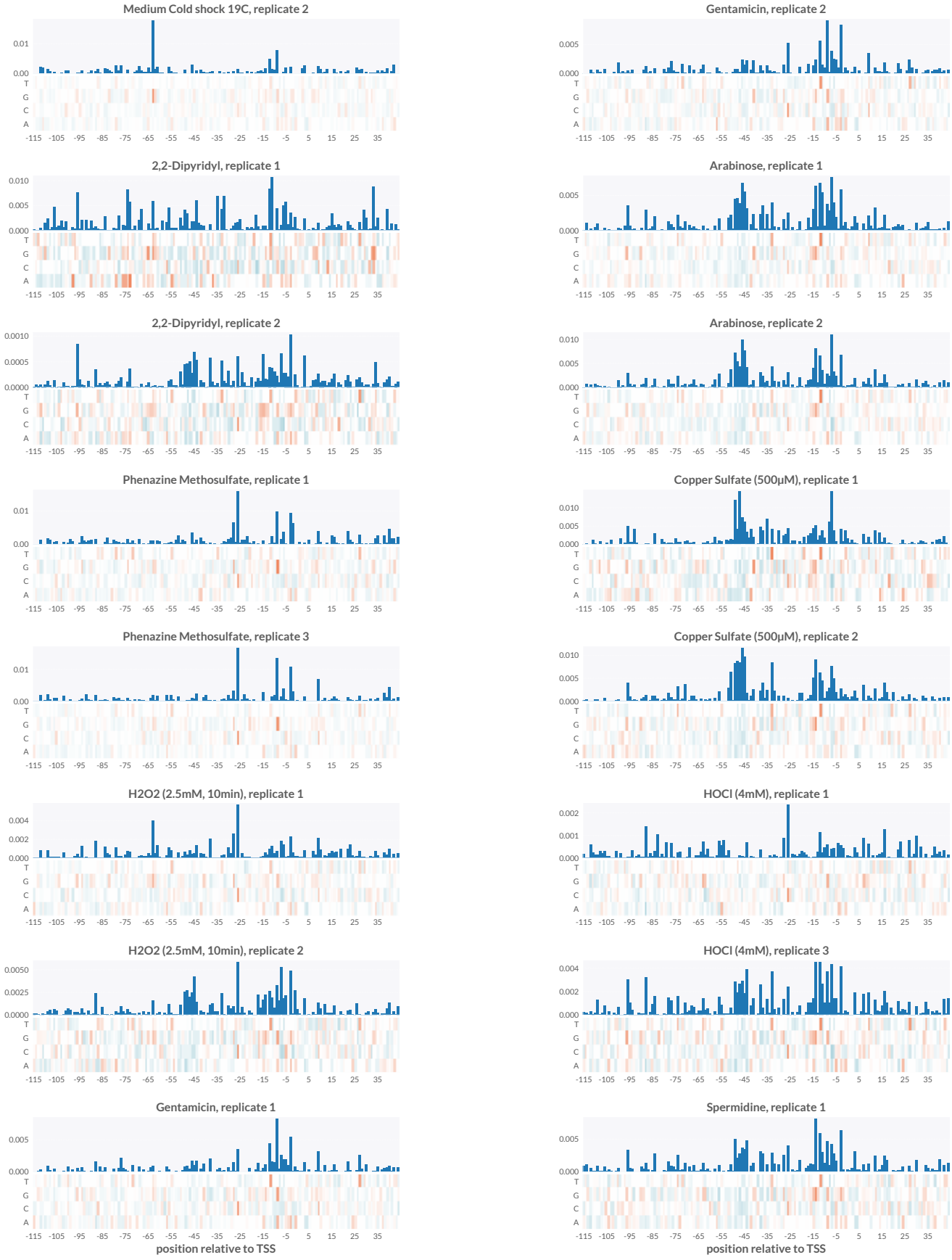

Ethanol (induction), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

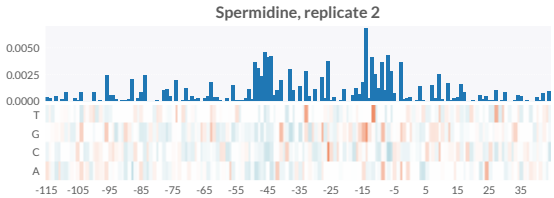

Xylose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

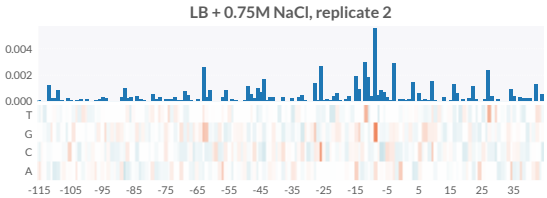

Medium Cold shock 19C, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

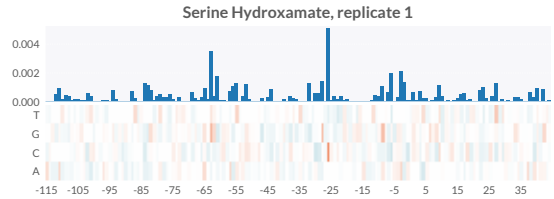
gatYp

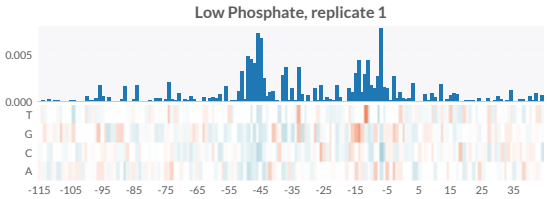

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

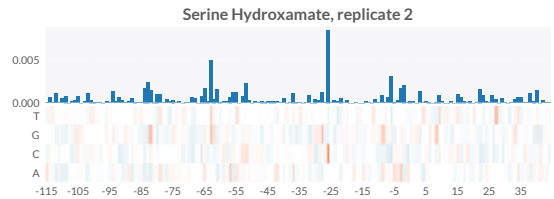
gatYp

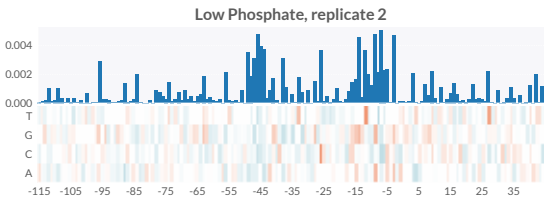

Spermidine, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

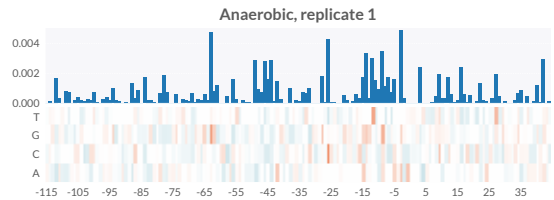

LB + 0.75M NaCl, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

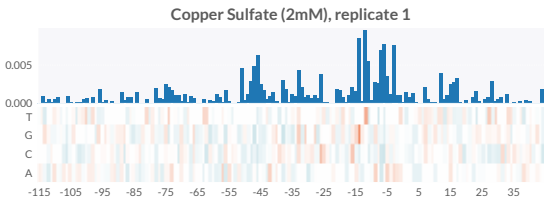

Serine Hydroxamate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

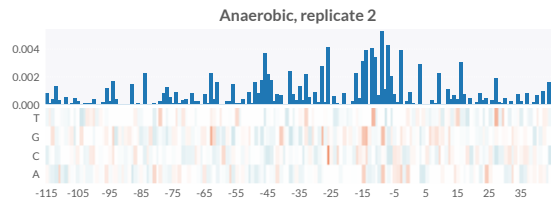

Low Phosphate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

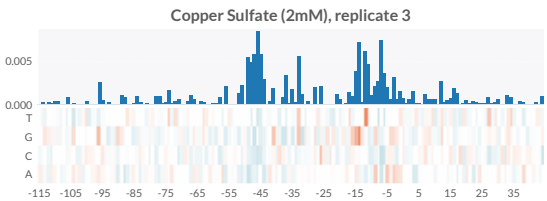

Serine Hydroxamate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

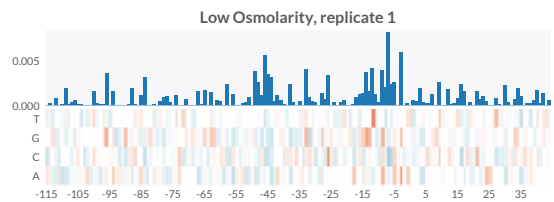

Low Phosphate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

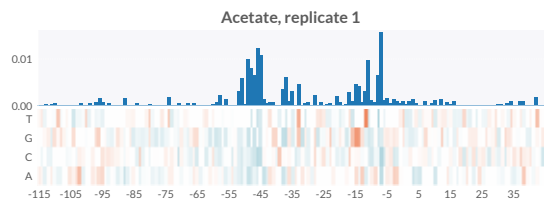

Anaerobic, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

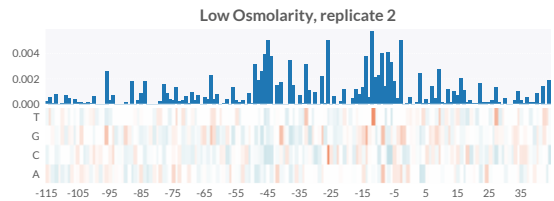

Copper Sulfate (2mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

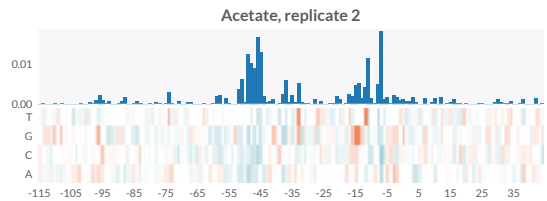

Anaerobic, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

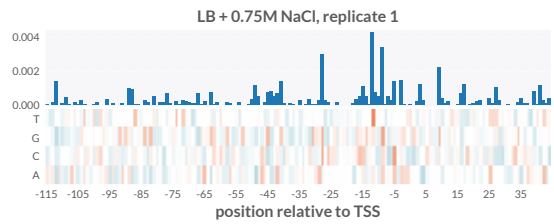

Copper Sulfate (2mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

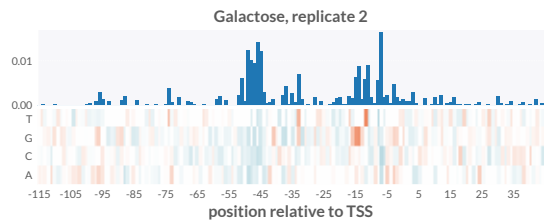

Low Osmolarity, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

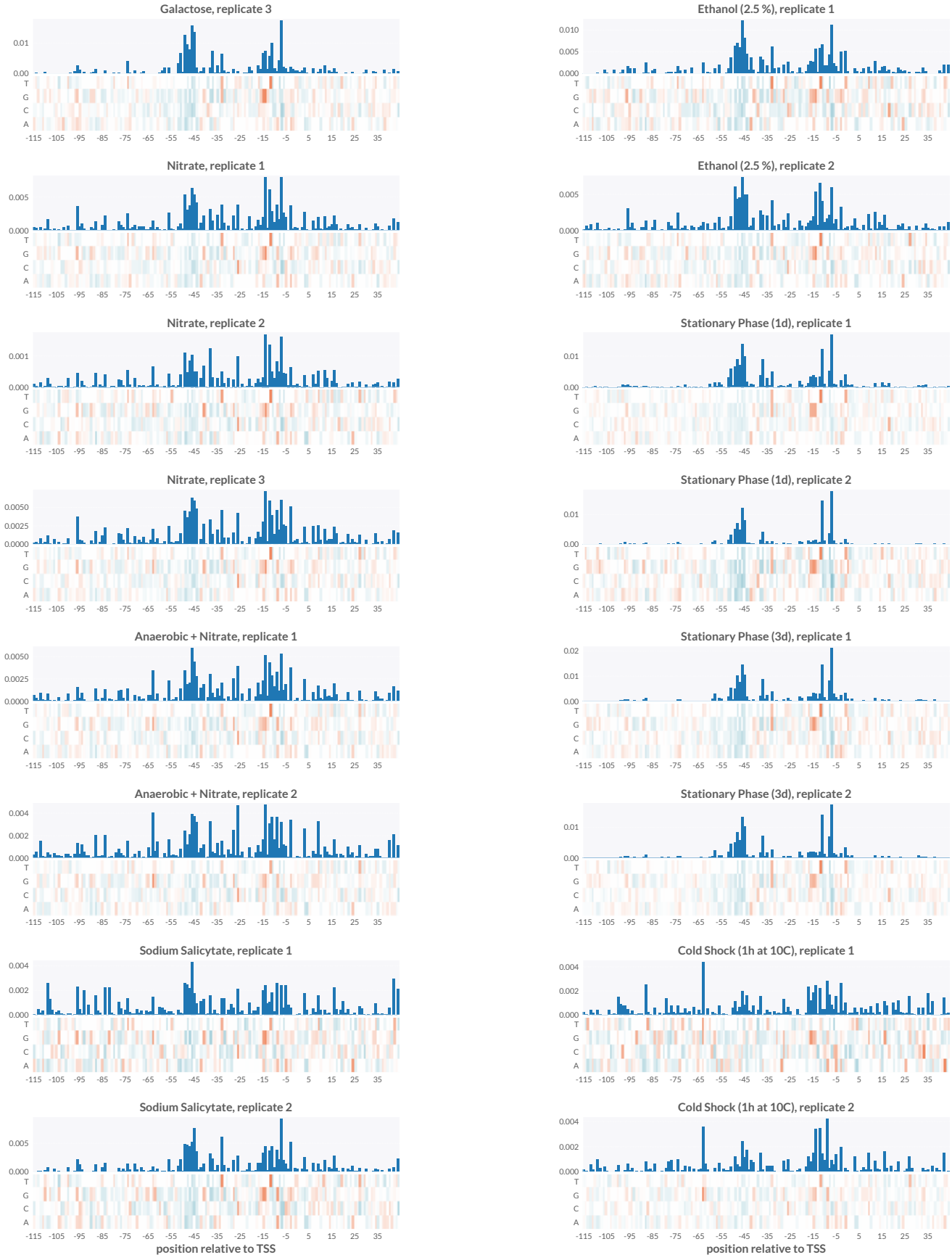

Low Osmolarity, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

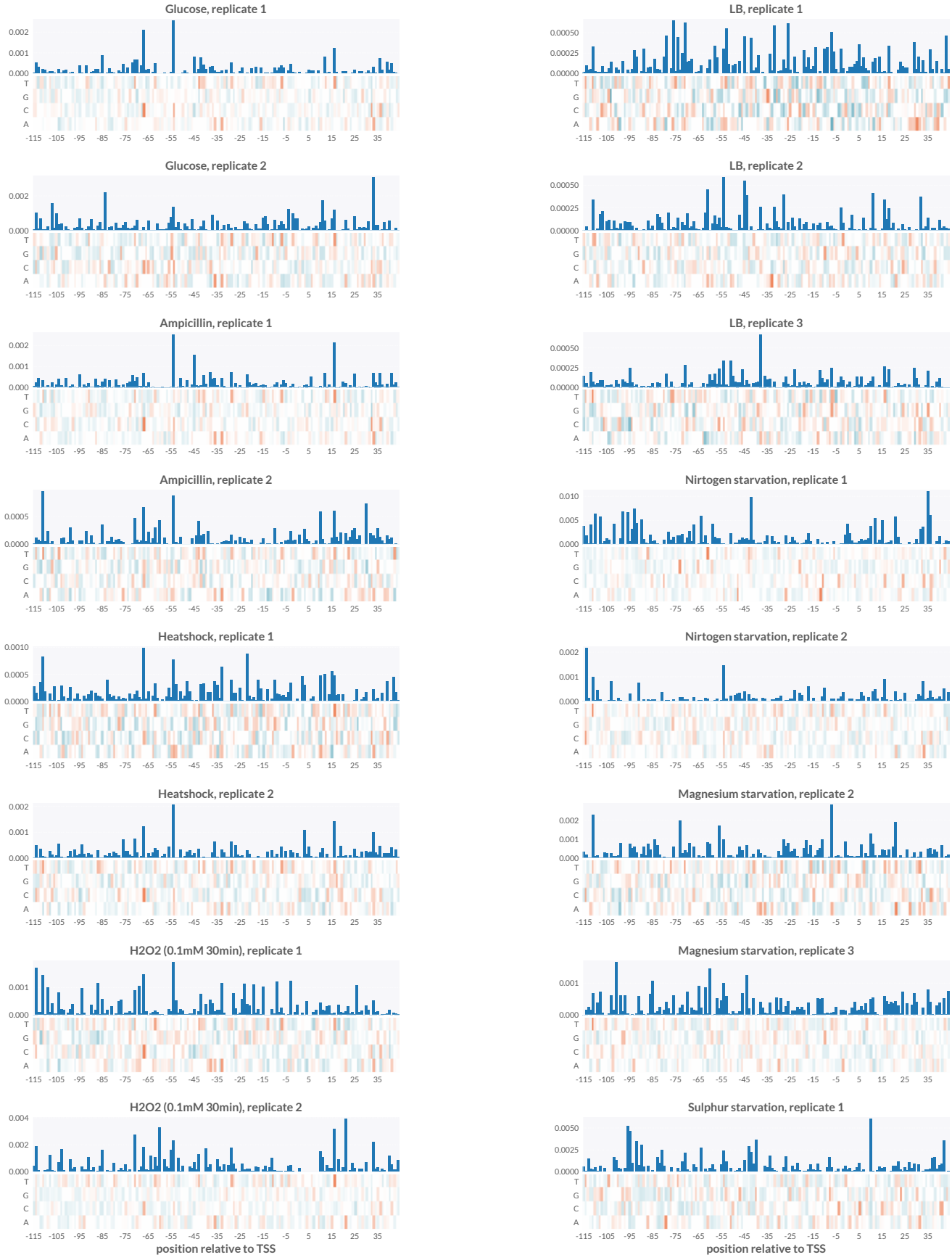

LB + 0.75M NaCl, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Galactose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

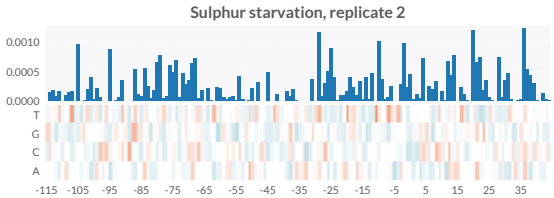
gatYp

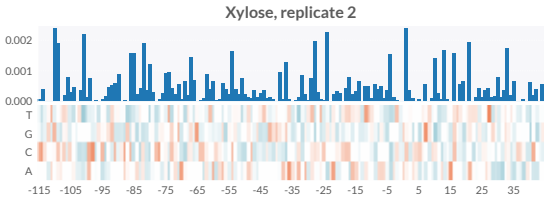

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

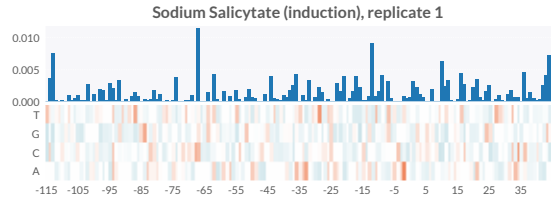
gatZp

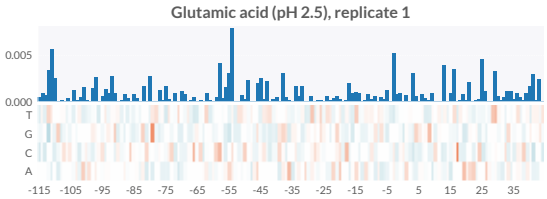

Glucose, replicate 1
Glucose, replicate 2
Ampicillin, replicate 1
Ampicillin, replicate 2
Heatshock, replicate 1
Heatshock, replicate 2
H2O2 (0.1mM 30min), replicate 1
H2O2 (0.1mM 30min), replicate 2
LB, replicate 1
LB, replicate 2
LB, replicate 3
Nirtogen starvation, replicate 1
Nirtogen starvation, replicate 2
Magnesium starvation, replicate 2
Magnesium starvation, replicate 3
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

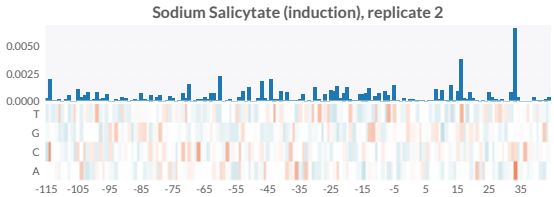
gatZp

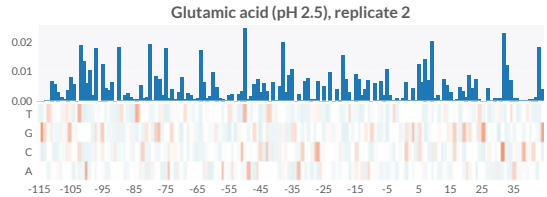

Sulphur starvation, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

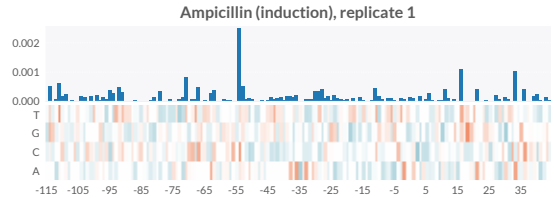

Xylose, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

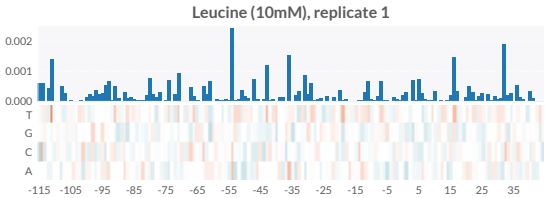

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

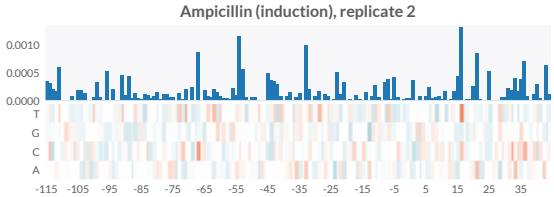

Glutamic acid (pH 2.5), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

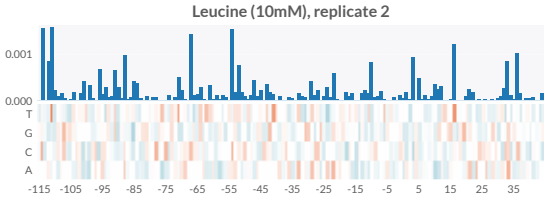

Sodium Salicytate (induction), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

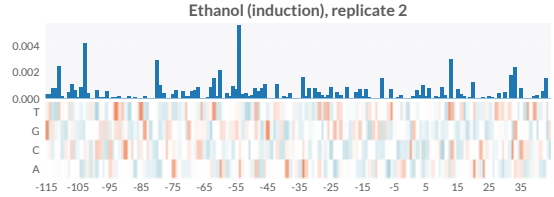

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

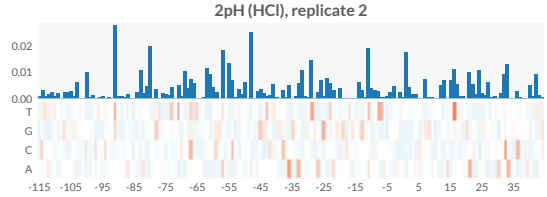

Ampicillin (induction), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

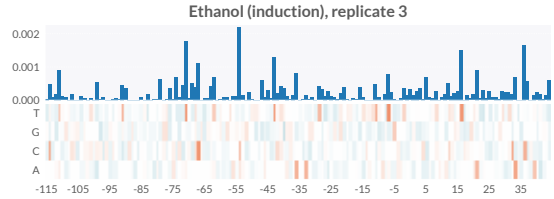

Leucine (10mM), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

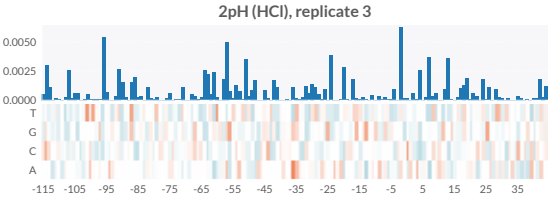

Ampicillin (induction), replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

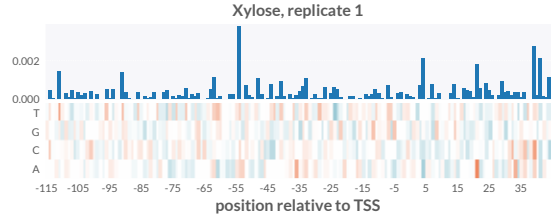

Leucine (10mM), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

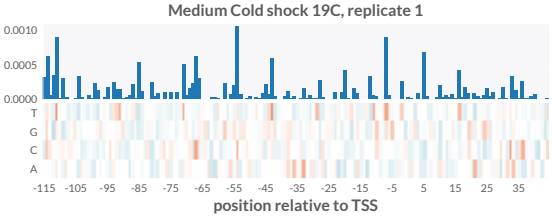

Ethanol (induction), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

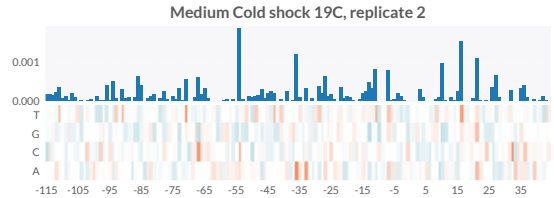

Ethanol (induction), replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

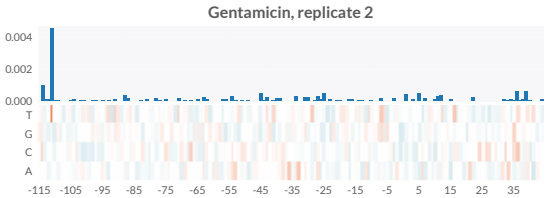

2pH (HCl), replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

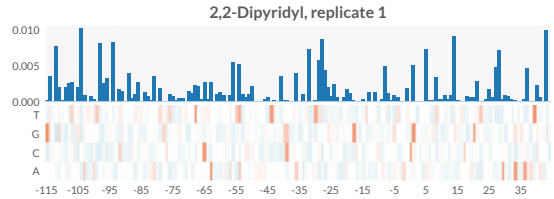

Xylose, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

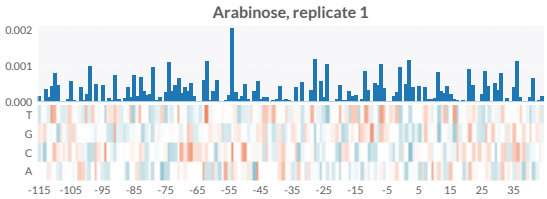

Medium Cold shock 19C, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

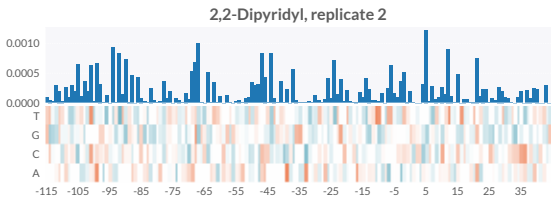
gatZp

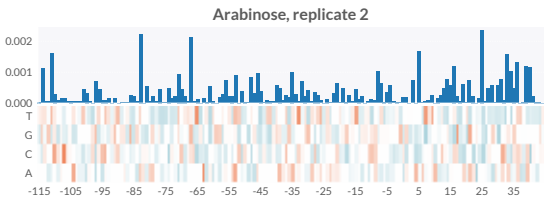

Medium Cold shock 19C, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

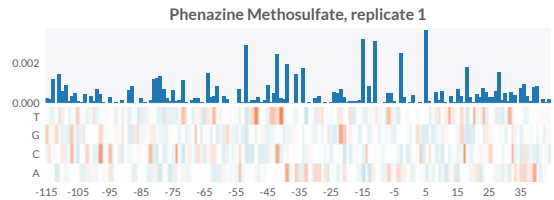

Gentamicin, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

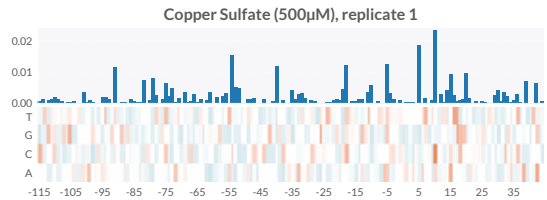

2,2-Dipyridyl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

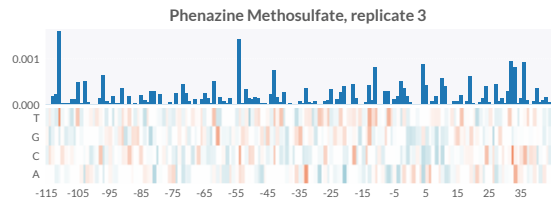

Arabinose, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

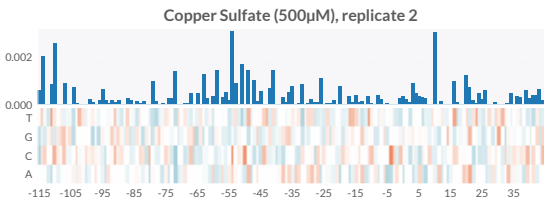

2,2-Dipyridyl, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

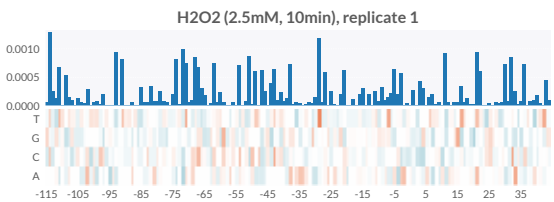

Arabinose, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

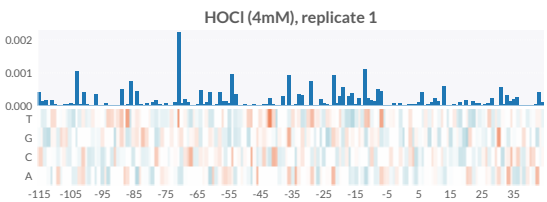

Phenazine Methosulfate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

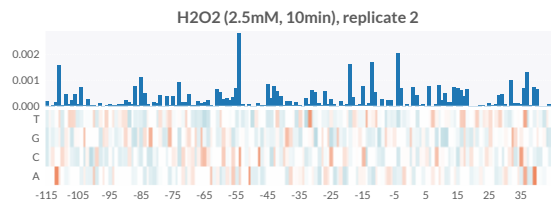

Copper Sulfate (500µM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

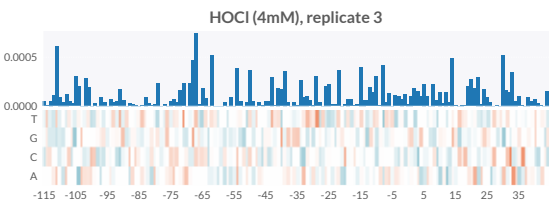

Phenazine Methosulfate, replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

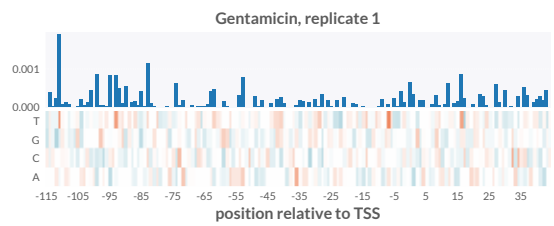

Copper Sulfate (500µM), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

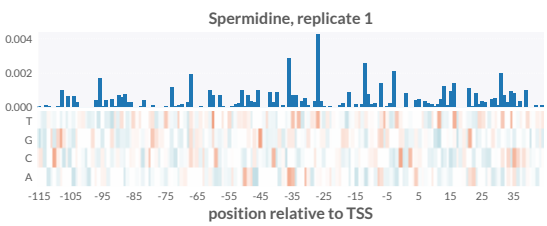

H2O2 (2.5mM, 10min), replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

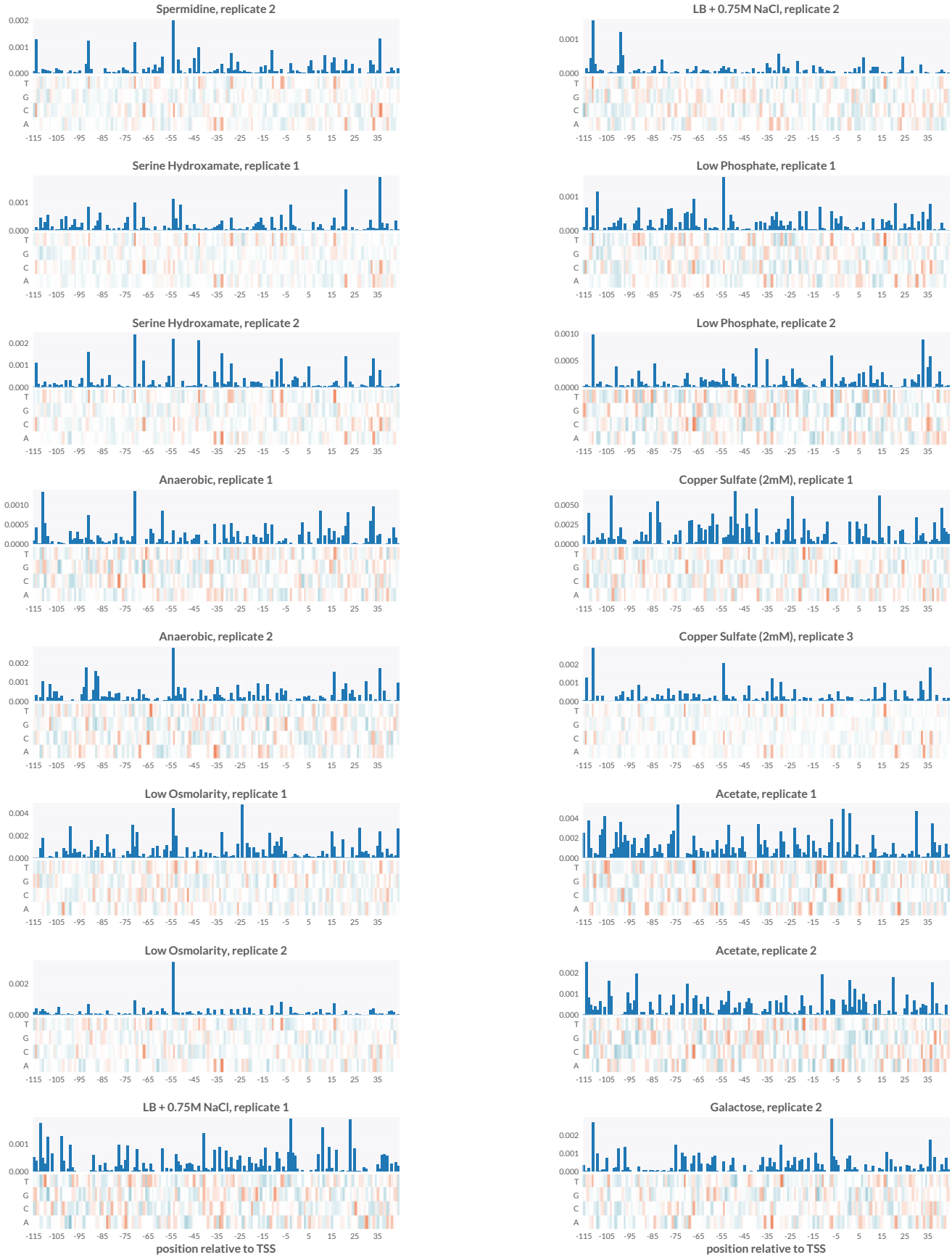

H2O2 (2.5mM, 10min), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

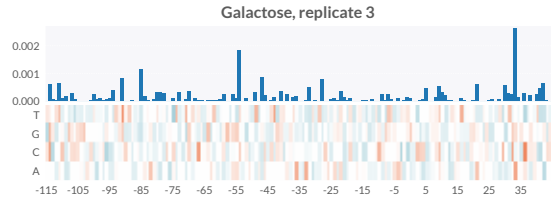

Gentamicin, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

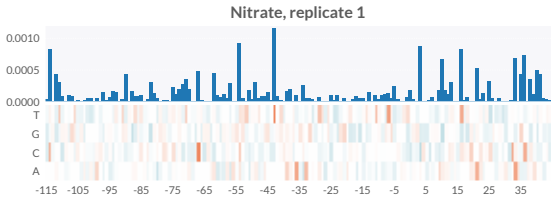

Spermidine, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

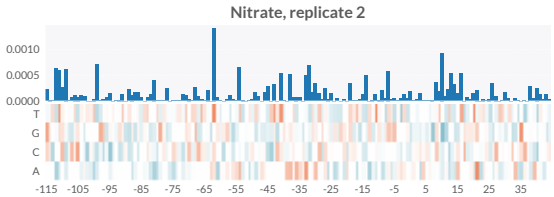
gatZp

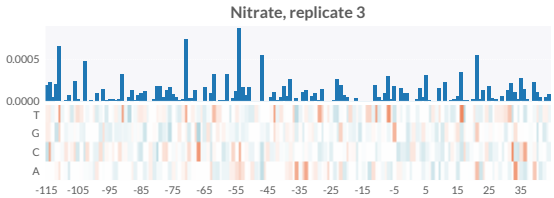

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

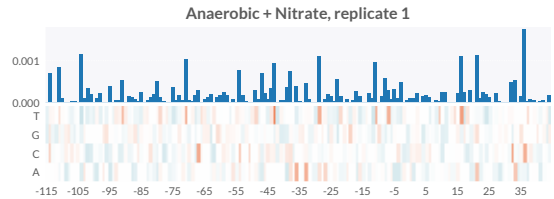
gatZp

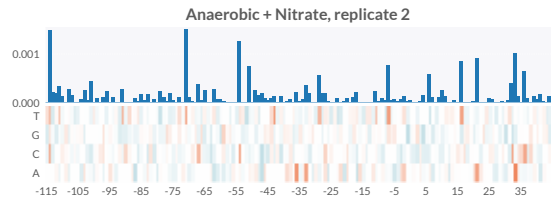

Galactose, replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

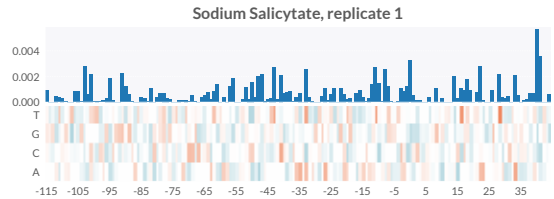

Nitrate, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

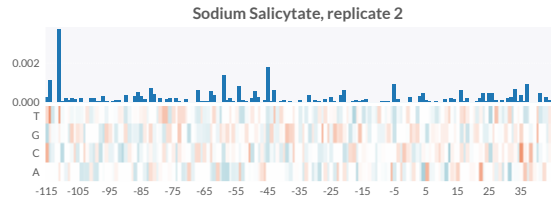

Nitrate, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

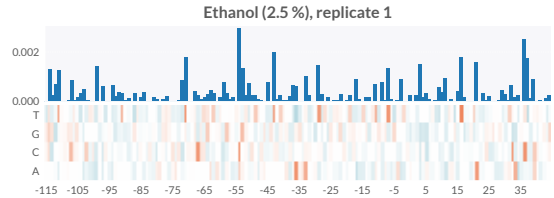

Nitrate, replicate 3
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

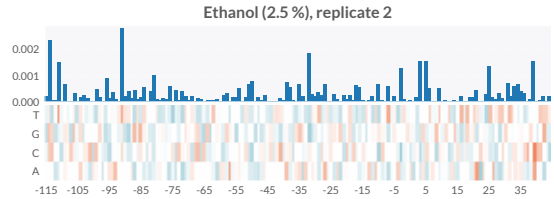

Anaerobic + Nitrate, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

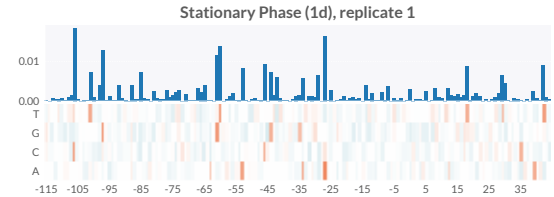

Anaerobic + Nitrate, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

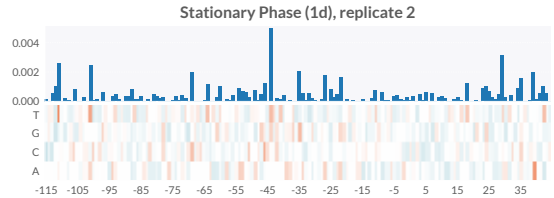

Sodium Salicytate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

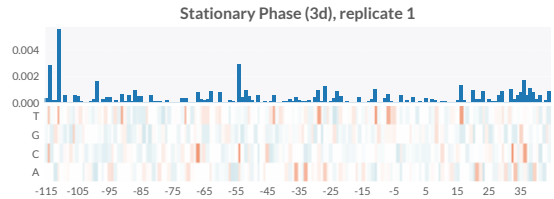

Sodium Salicytate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

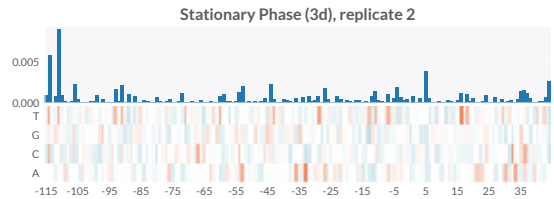

Ethanol (2.5 %), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

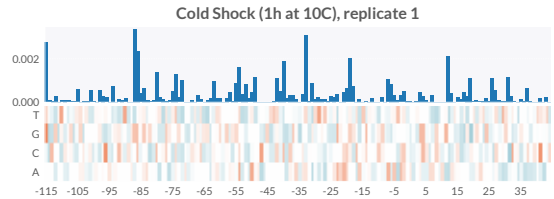

Ethanol (2.5 %), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

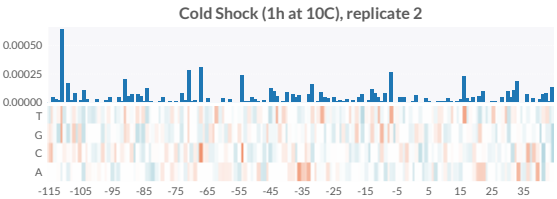

Stationary Phase (1d), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (1d), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

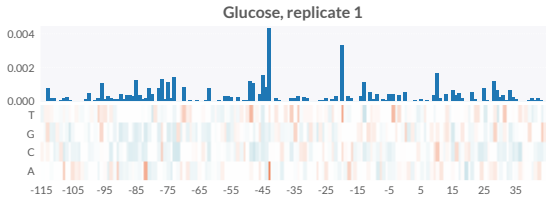

Stationary Phase (3d), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

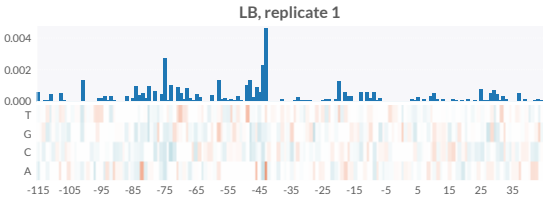

Stationary Phase (3d), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

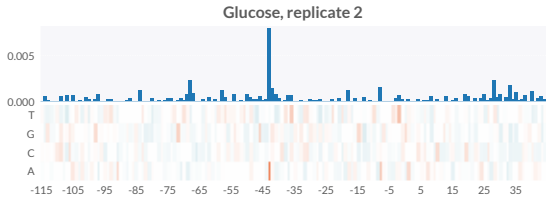

Cold Shock (1h at 10C), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

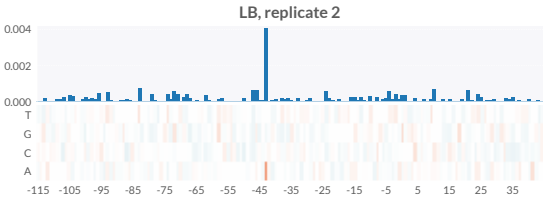

Cold Shock (1h at 10C), replicate 2
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

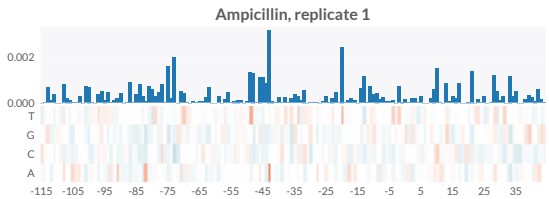
ghoSp

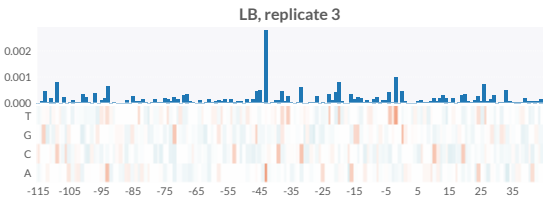

Glucose, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

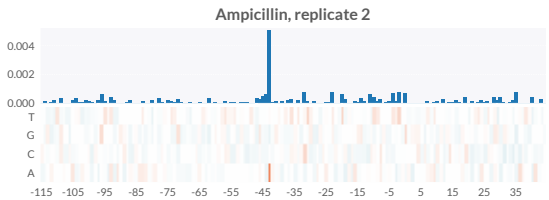

LB, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

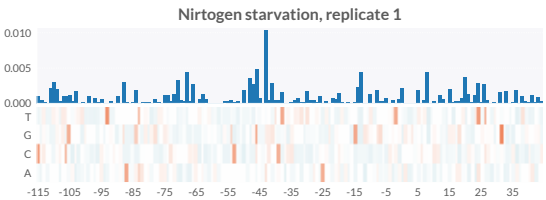

Glucose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

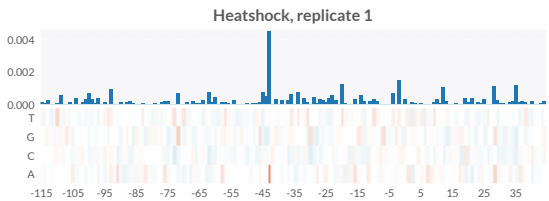

LB, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

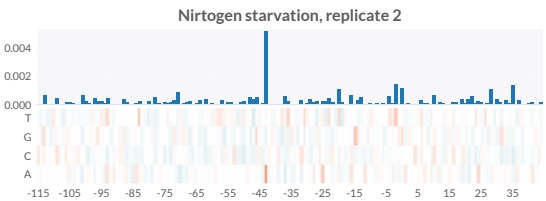

Ampicillin, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

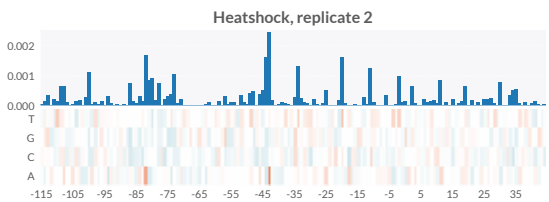

LB, replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

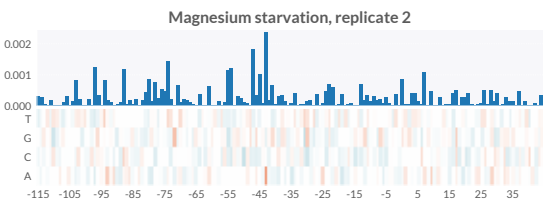

Ampicillin, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

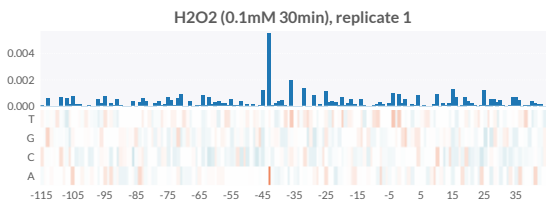

Nirtogen starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

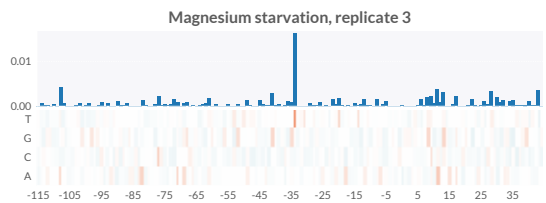

Heatshock, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

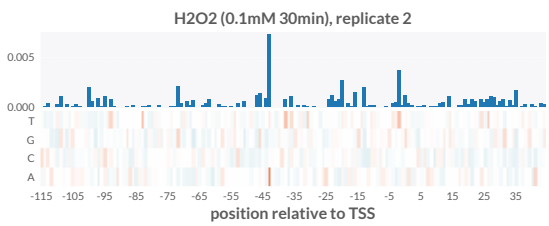

Nirtogen starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

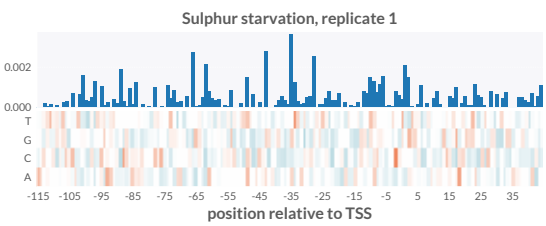

Heatshock, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

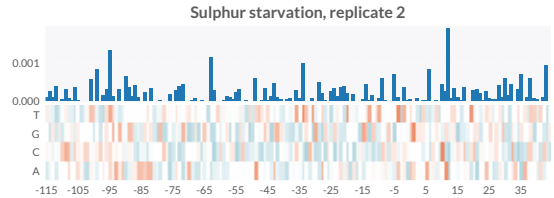

H2O2 (0.1mM 30min), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

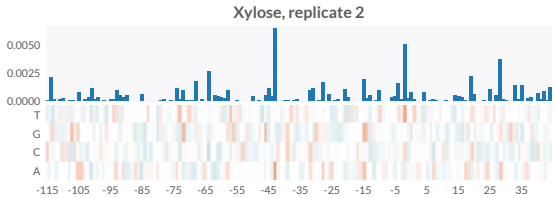

Magnesium starvation, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

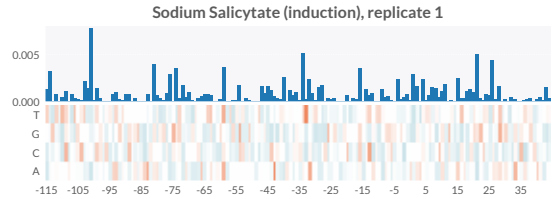

H2O2 (0.1mM 30min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

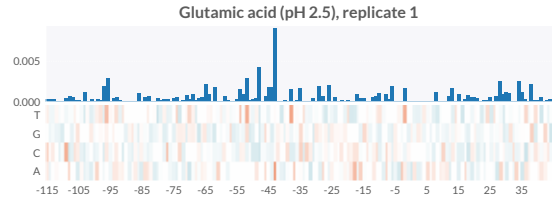

Sulphur starvation, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

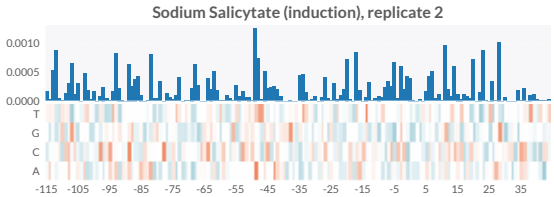
ghoSp

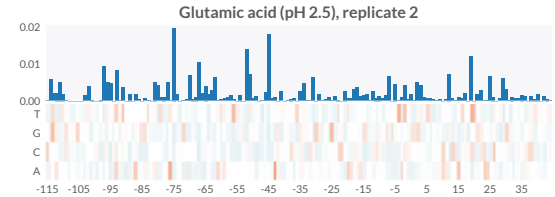

Sulphur starvation, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

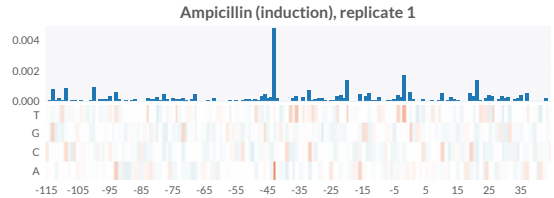

Xylose, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

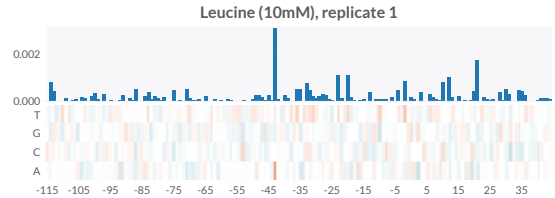

Sodium Salicytate (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

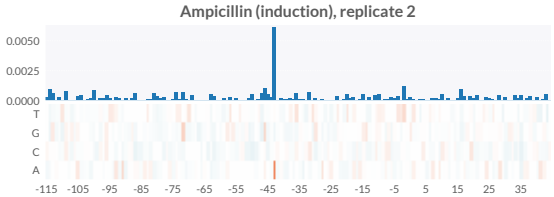

Glutamic acid (pH 2.5), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

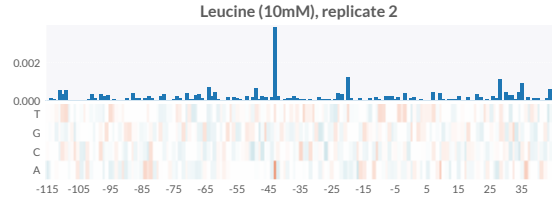

Sodium Salicytate (induction), replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

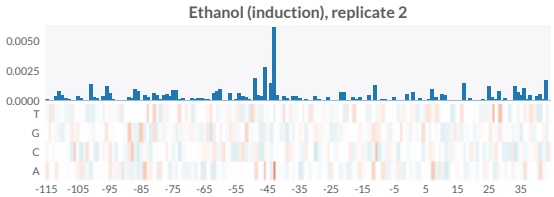

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

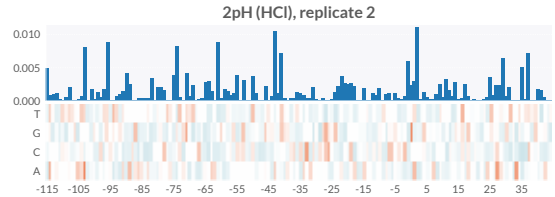

Ampicillin (induction), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

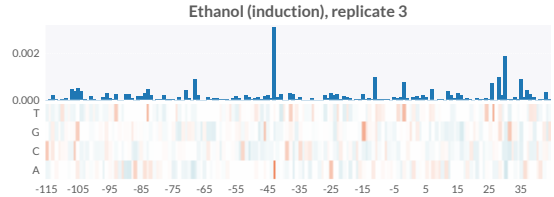

Leucine (10mM), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

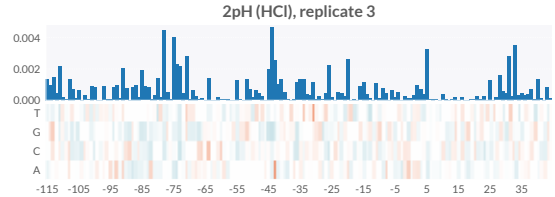

Ampicillin (induction), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

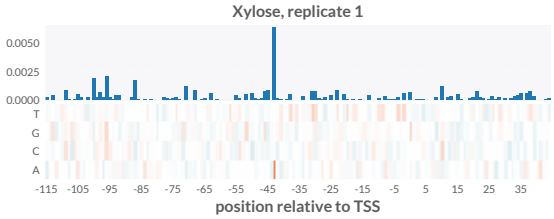

Leucine (10mM), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

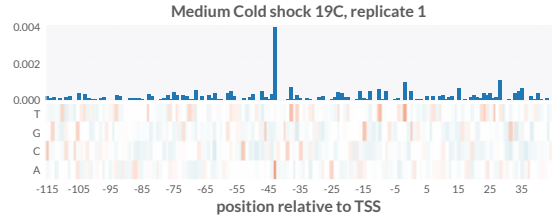

Ethanol (induction), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Ethanol (induction), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

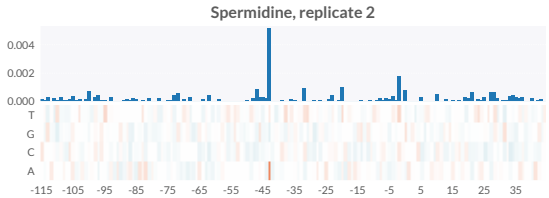

Xylose, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

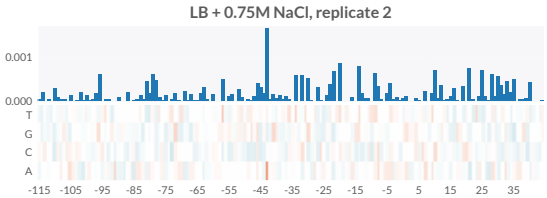

Medium Cold shock 19C, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

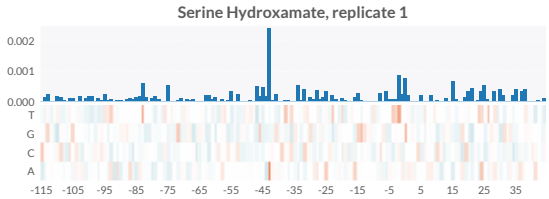
ghoSp

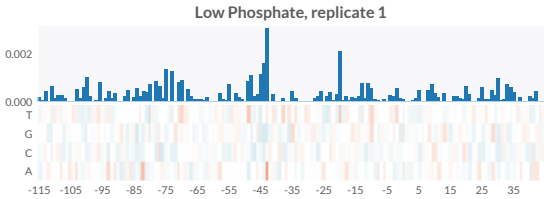

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

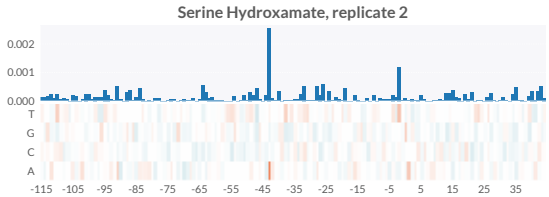
ghoSp

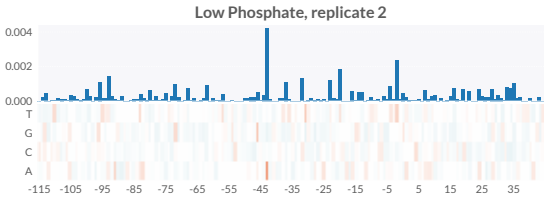

Spermidine, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

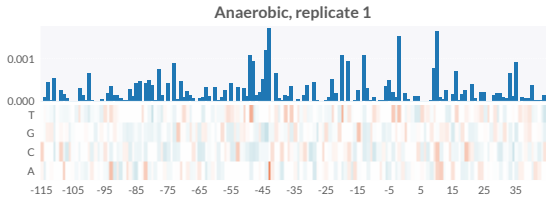

LB + 0.75M NaCl, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

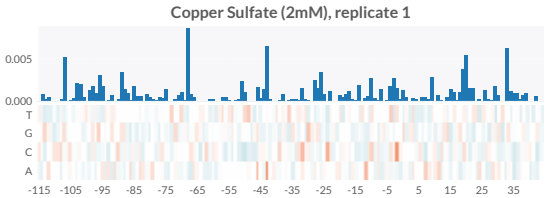

Serine Hydroxamate, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

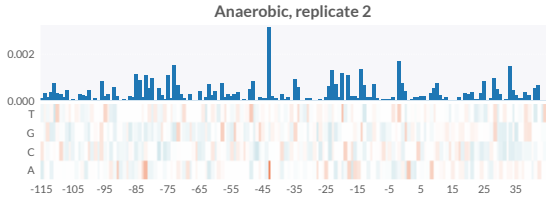

Low Phosphate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

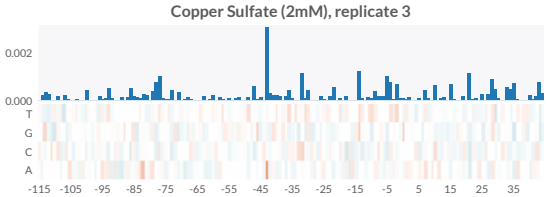

Serine Hydroxamate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

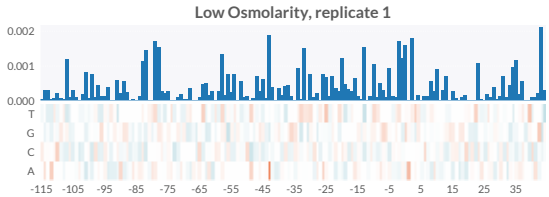

Low Phosphate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

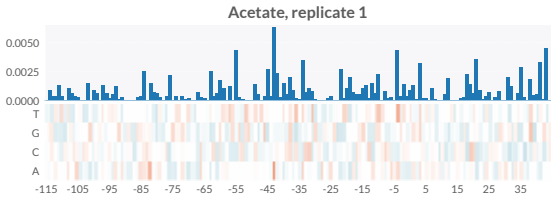

Anaerobic, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

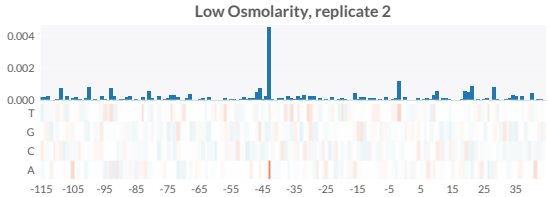

Copper Sulfate (2mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

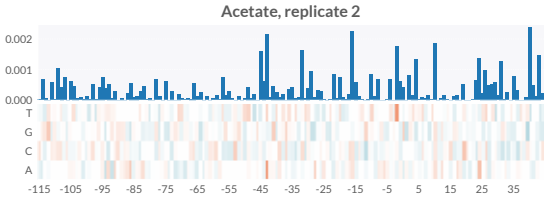

Anaerobic, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

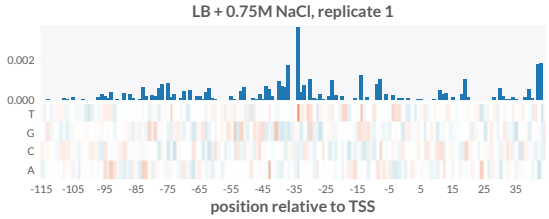

Copper Sulfate (2mM), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

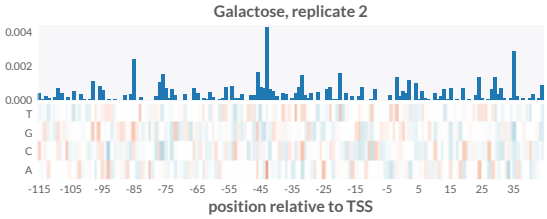

Low Osmolarity, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

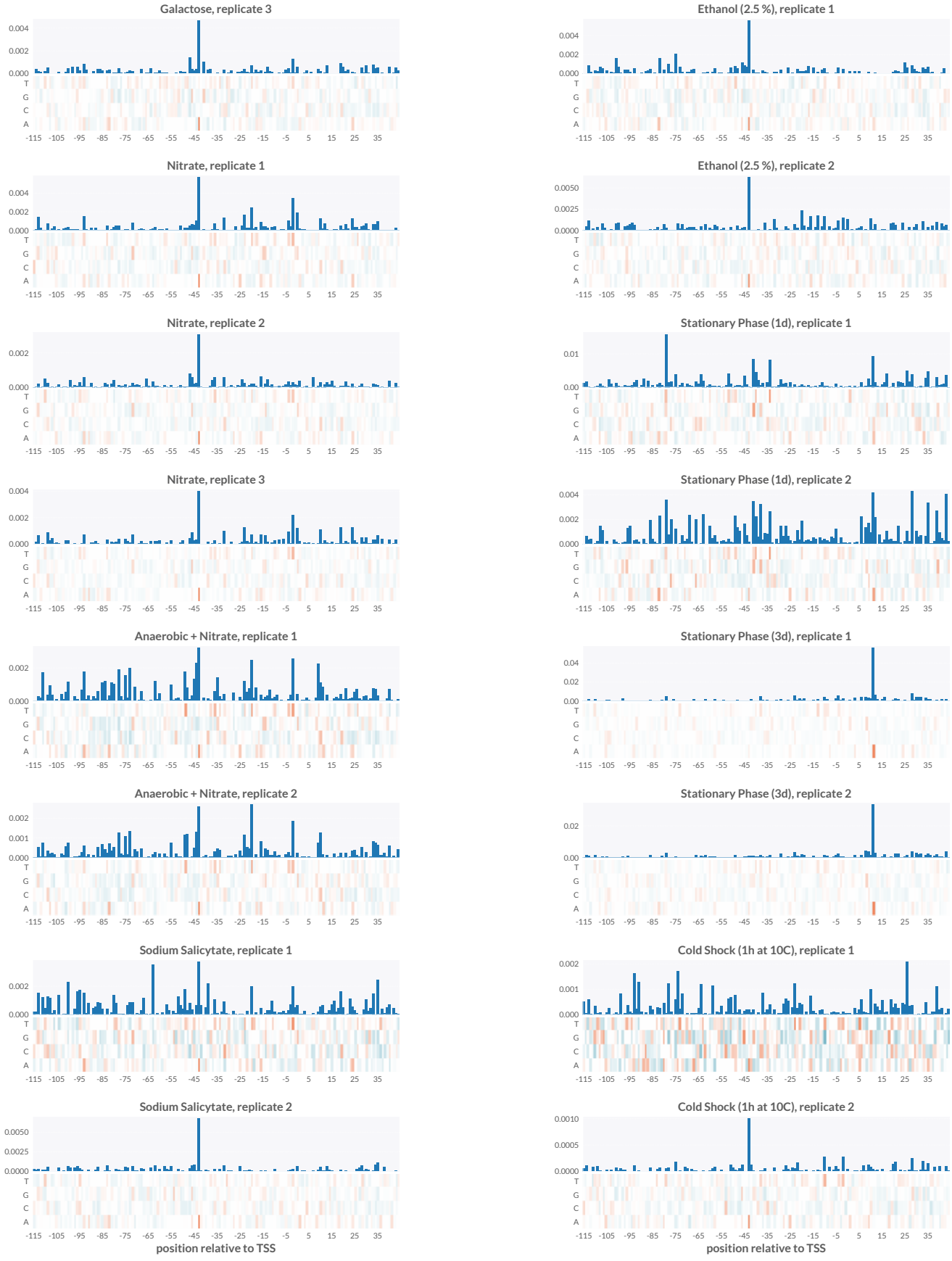

Low Osmolarity, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


LB + 0.75M NaCl, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Galactose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

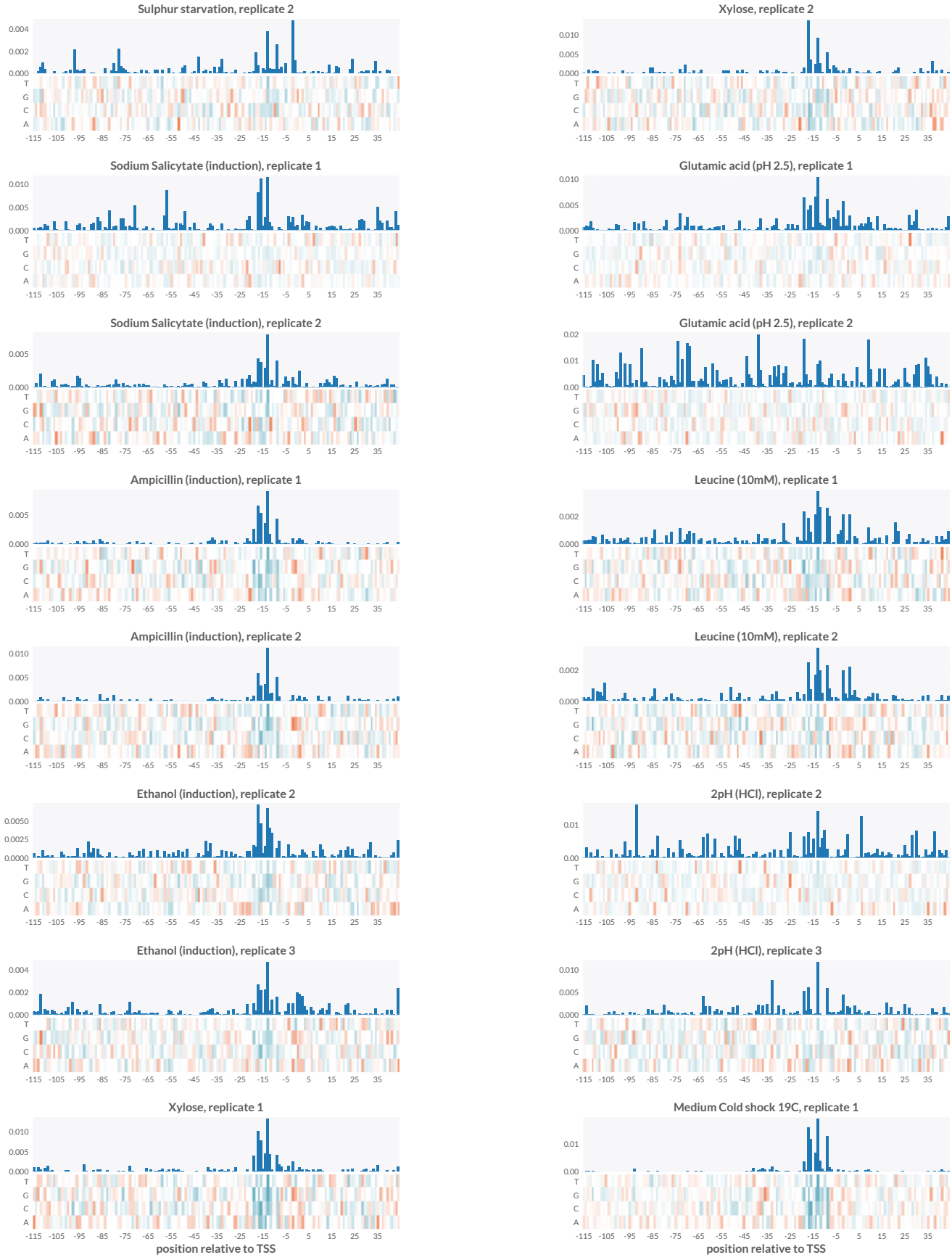
ghoSp


Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

gyrAp


Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

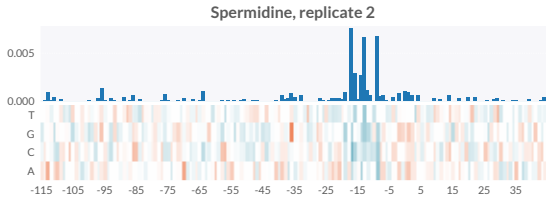
gyrAp

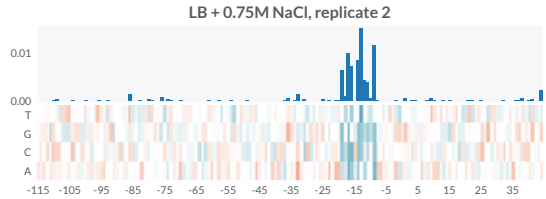

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

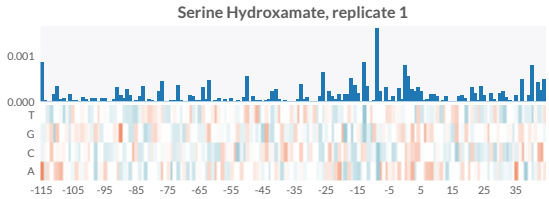
gyrAp

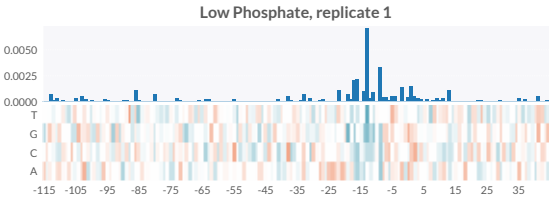

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

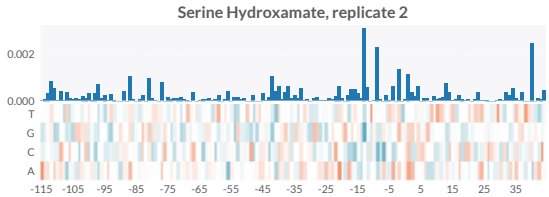
gyrAp

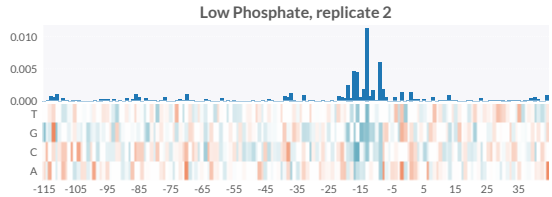

Spermidine, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

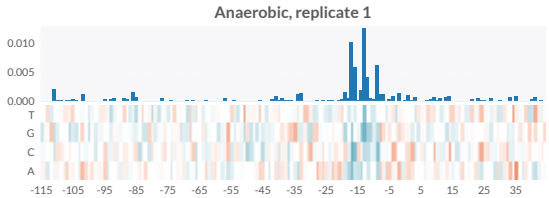

LB + 0.75M NaCl, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

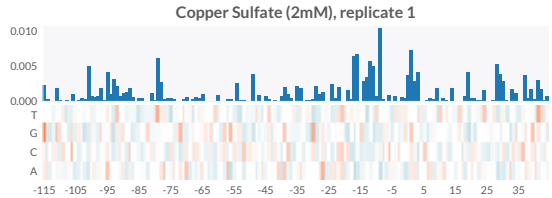

Serine Hydroxamate, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

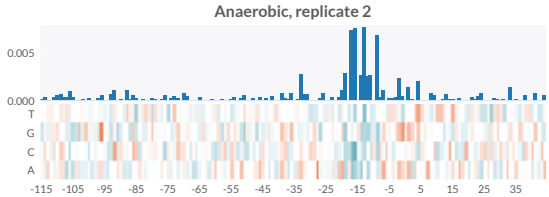

Low Phosphate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

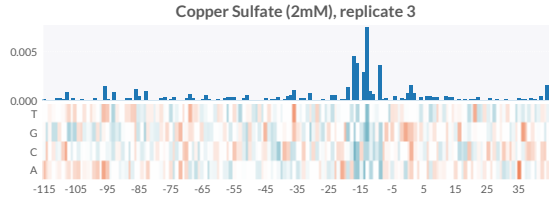

Serine Hydroxamate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

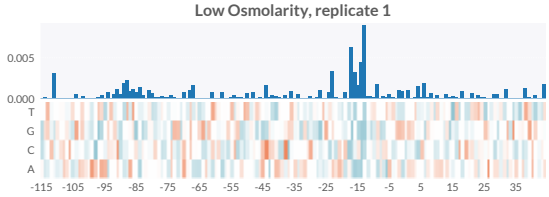

Low Phosphate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

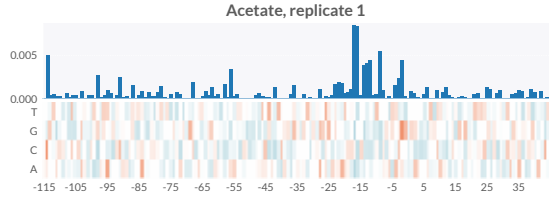

Anaerobic, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

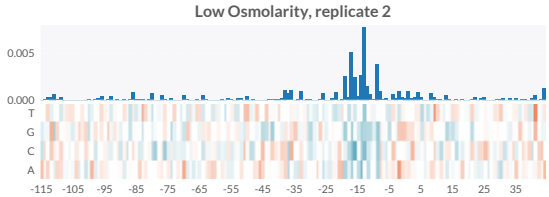

Copper Sulfate (2mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

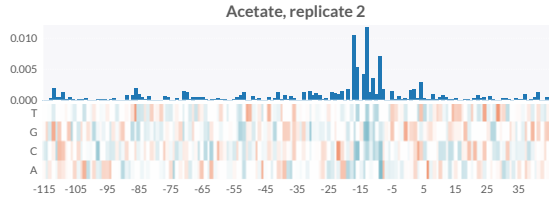

Anaerobic, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

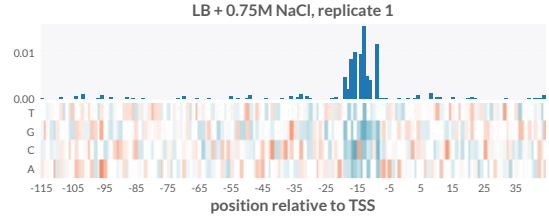

Copper Sulfate (2mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

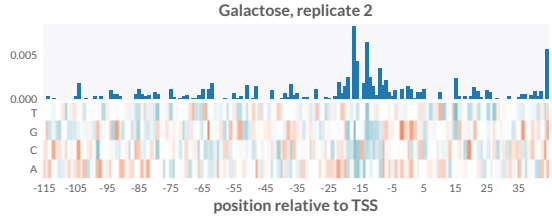

Low Osmolarity, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

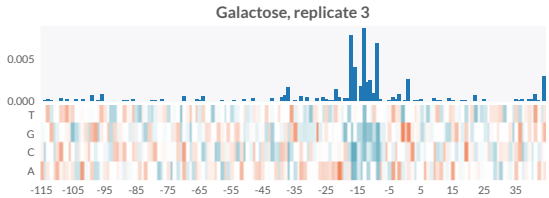

Low Osmolarity, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

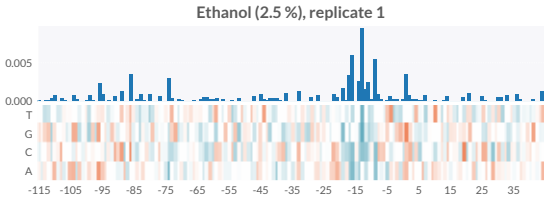

Acetate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

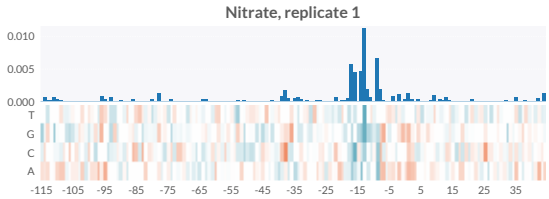

LB + 0.75M NaCl, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

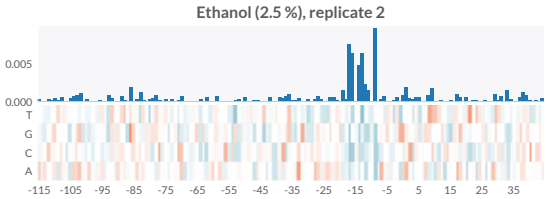

Galactose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

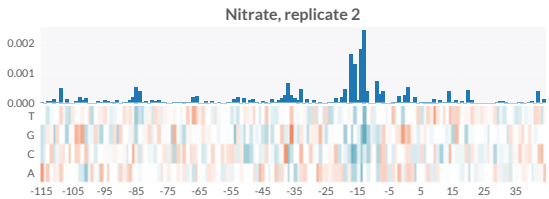
gyrAp

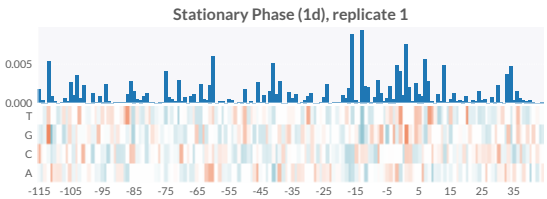

Galactose, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

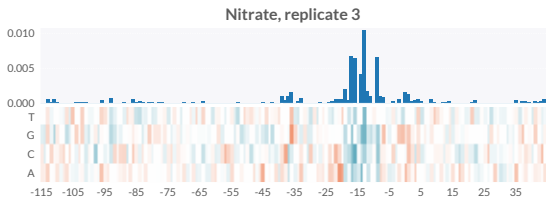

Ethanol (2.5 %), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

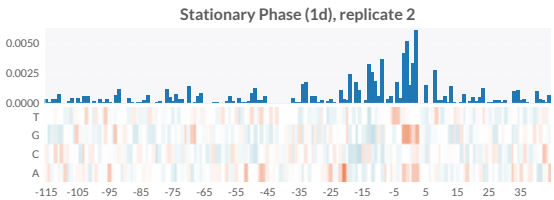

Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

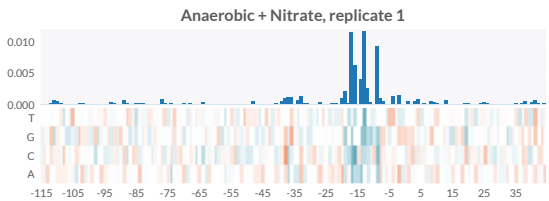

Ethanol (2.5 %), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

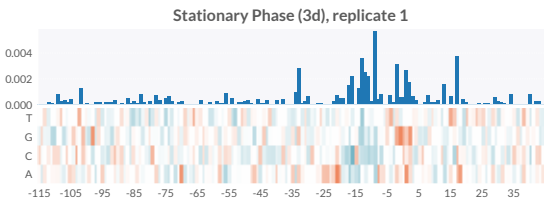

Nitrate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

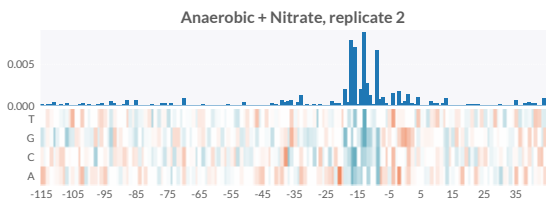

Stationary Phase (1d), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

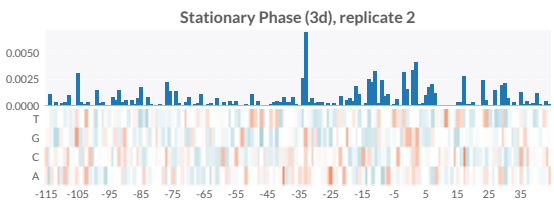

Nitrate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

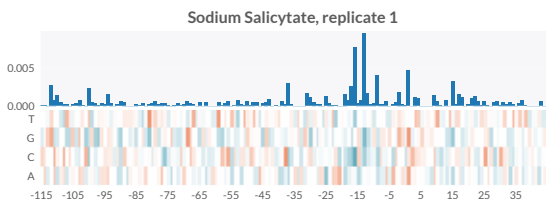

Stationary Phase (1d), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

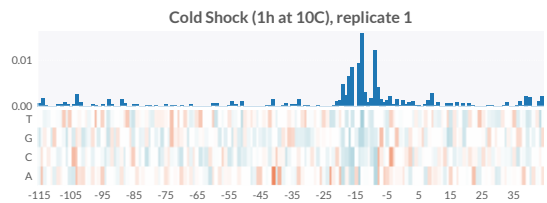

Anaerobic + Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

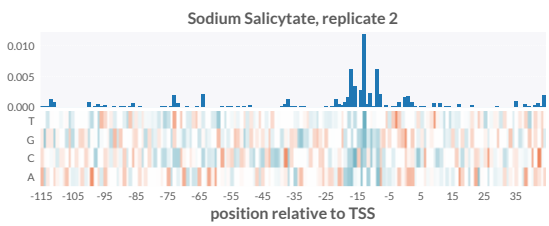

Stationary Phase (3d), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

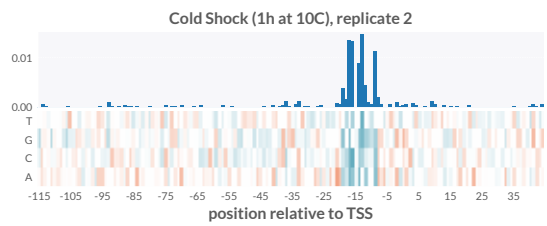

Anaerobic + Nitrate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

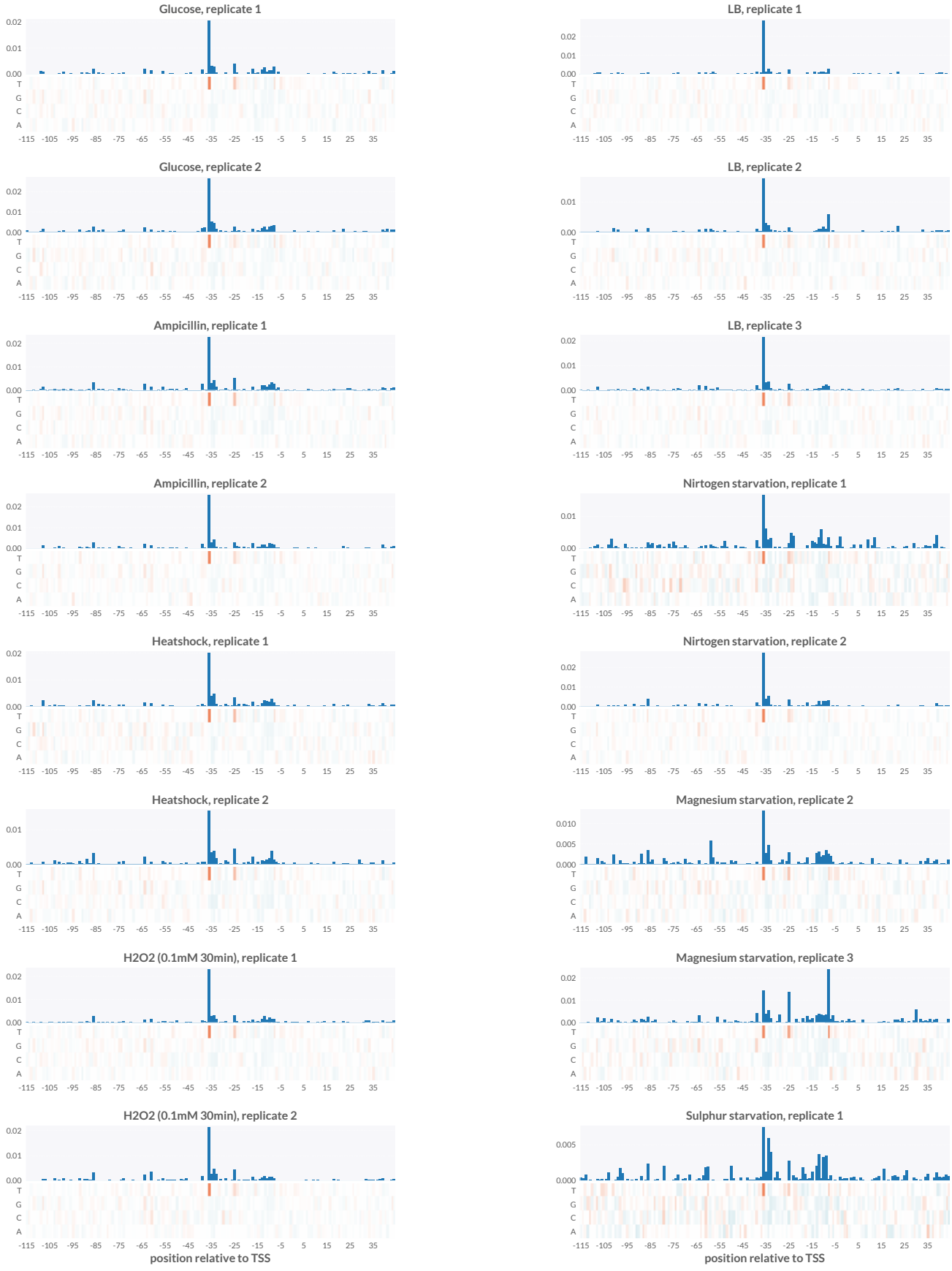

Sodium Salicytate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

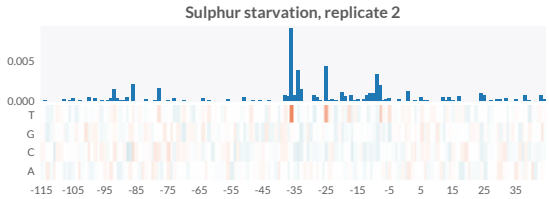

Sodium Salicytate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

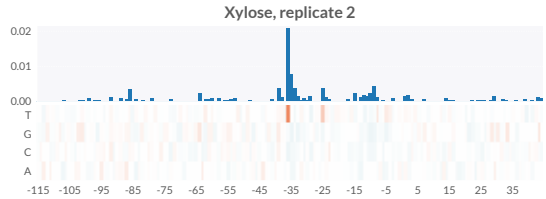

Cold Shock (1h at 10C), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

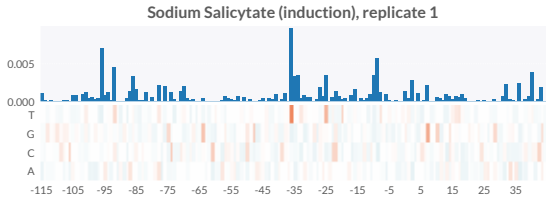
hdeAp2

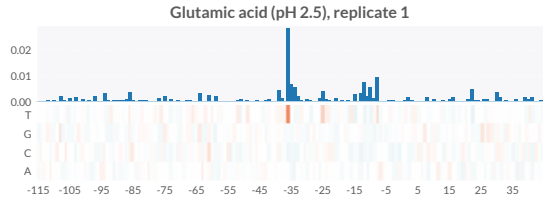

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
position relative to TSS
position relative to TSS

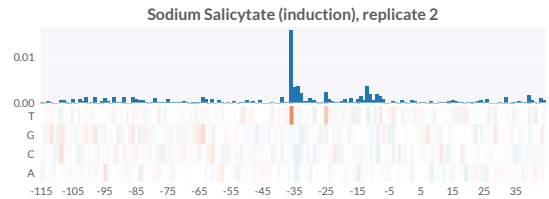
hdeAp2

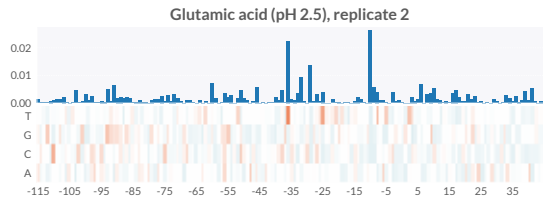

Sulphur starvation, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

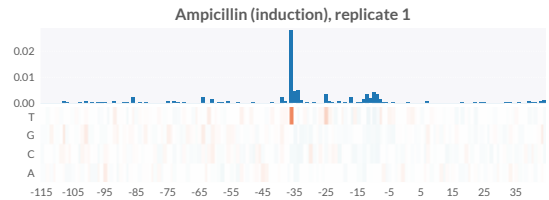

Xylose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

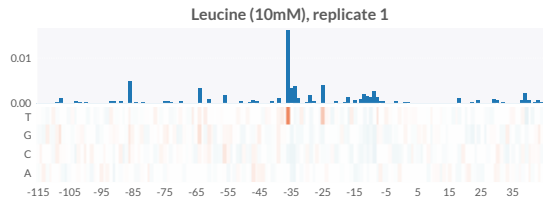

Sodium Salicytate (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

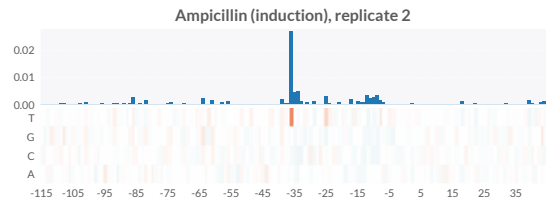

Glutamic acid (pH 2.5), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

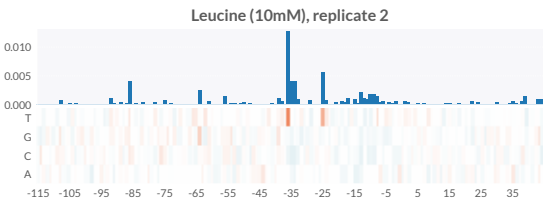

Sodium Salicytate (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

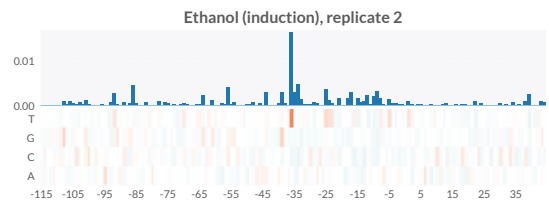

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

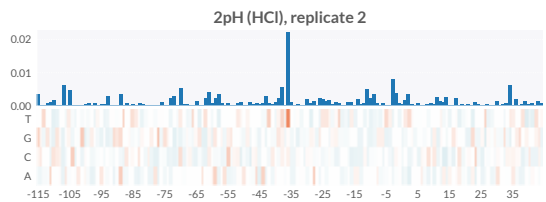

Ampicillin (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

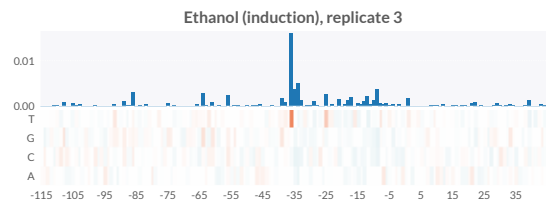

Leucine (10mM), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

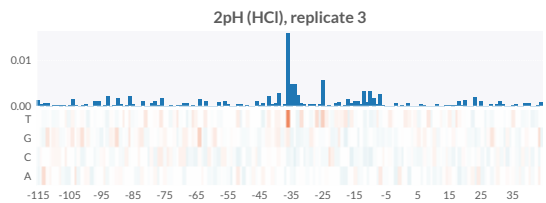

Ampicillin (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

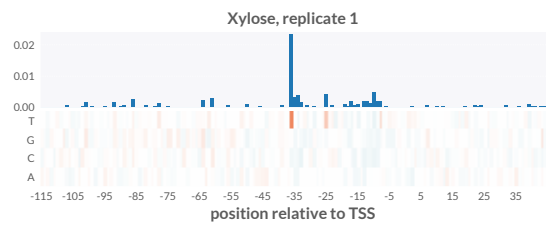

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

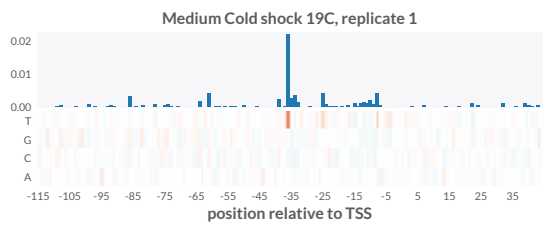

Ethanol (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

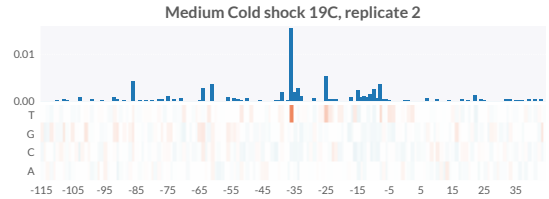

Ethanol (induction), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

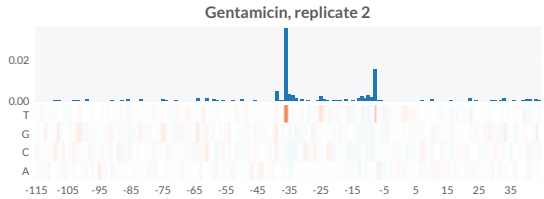

2pH (HCl), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

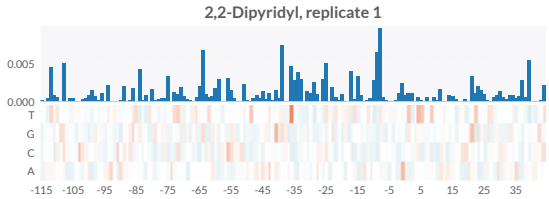

Xylose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

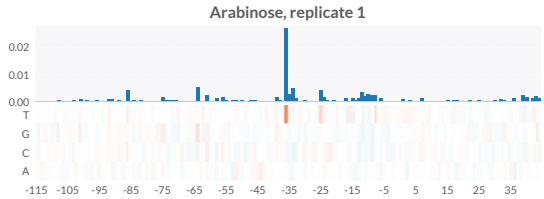

Medium Cold shock 19C, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

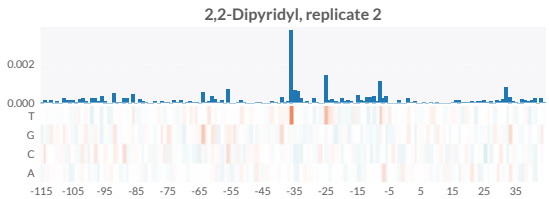
hdeAp2

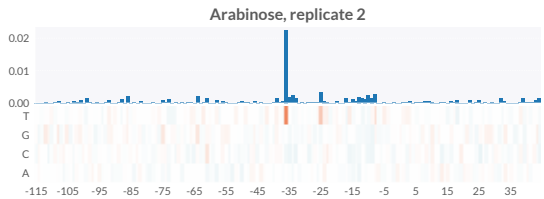

Medium Cold shock 19C, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

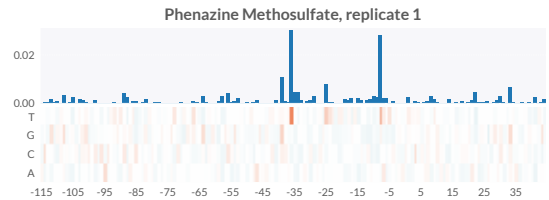

Gentamicin, replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

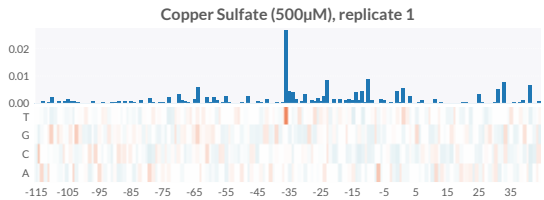

2,2-Dipyridyl, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

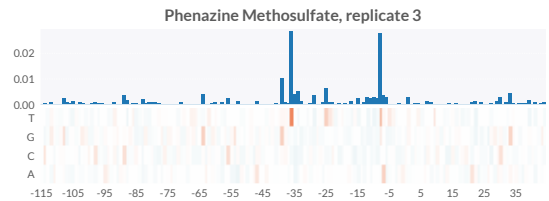

Arabinose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

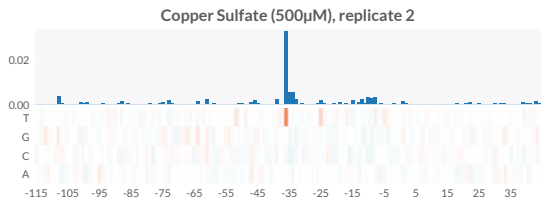

2,2-Dipyridyl, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

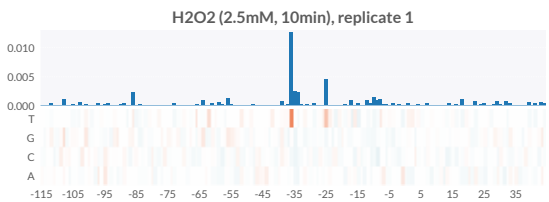

Arabinose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

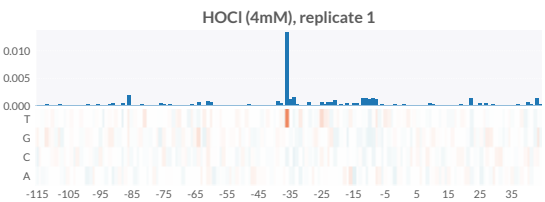

Phenazine Methosulfate, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

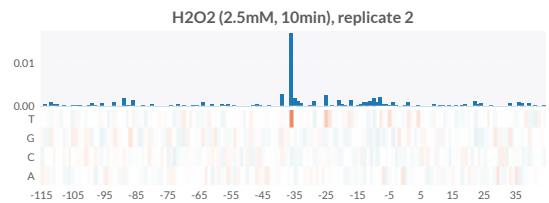

Copper Sulfate (500µM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

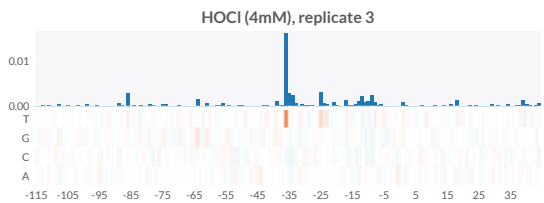

Phenazine Methosulfate, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

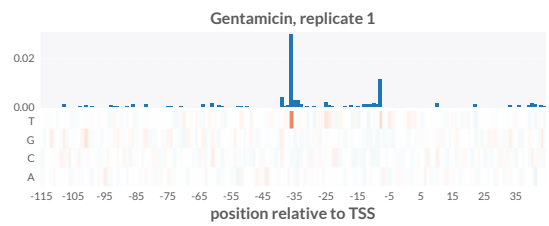

Copper Sulfate (500µM), replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

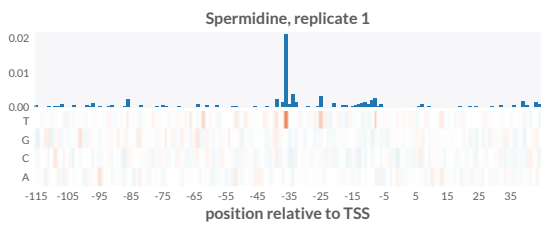

H2O2 (2.5mM, 10min), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

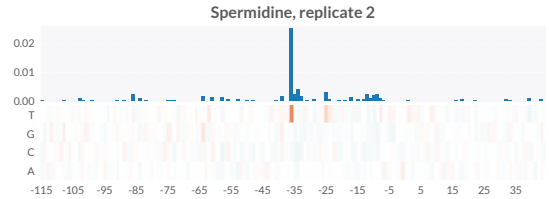

H2O2 (2.5mM, 10min), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

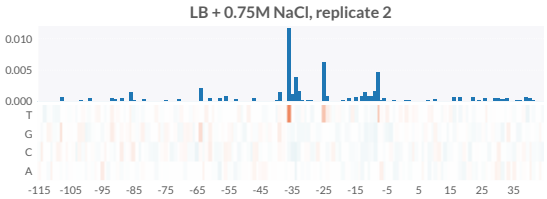

HOCl (4mM), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

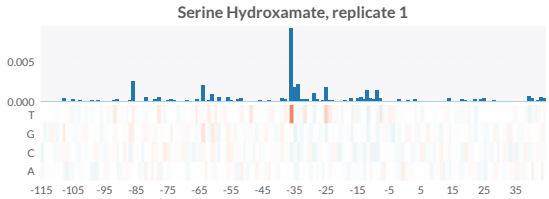

Gentamicin, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

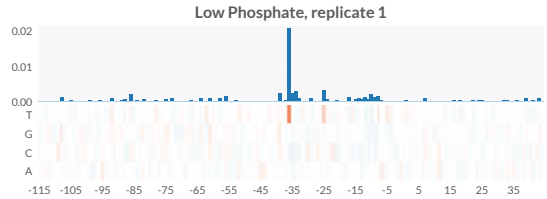

Spermidine, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

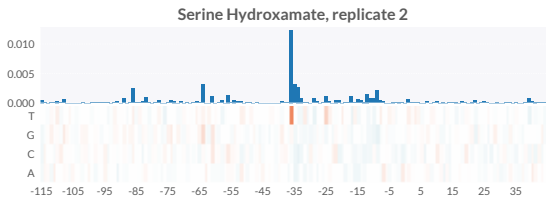
hdeAp2

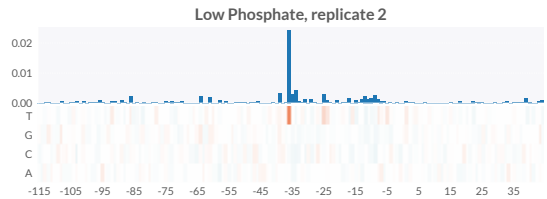

Spermidine, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

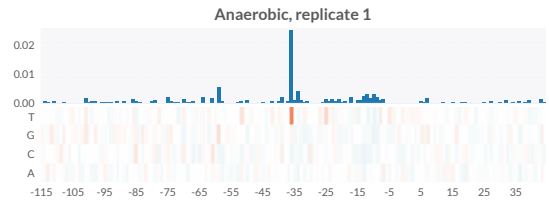

LB + 0.75M NaCl, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

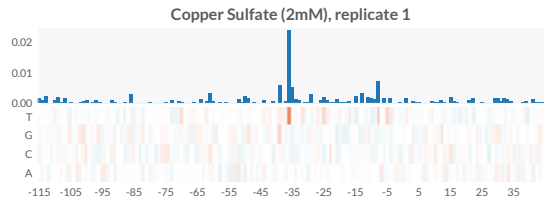

Serine Hydroxamate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

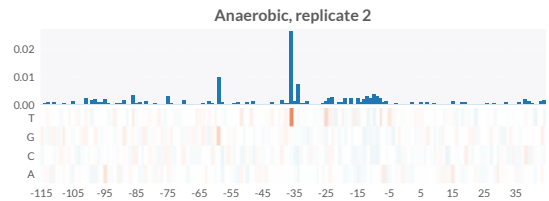

Low Phosphate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

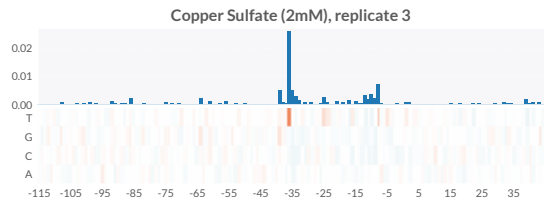

Serine Hydroxamate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

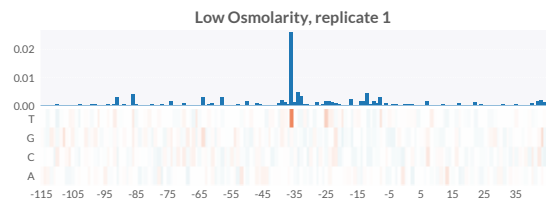

Low Phosphate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

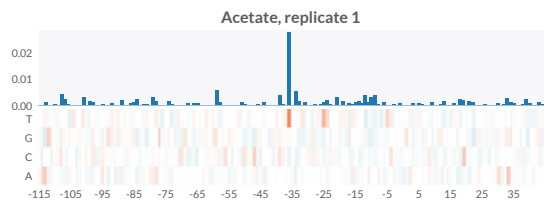

Anaerobic, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

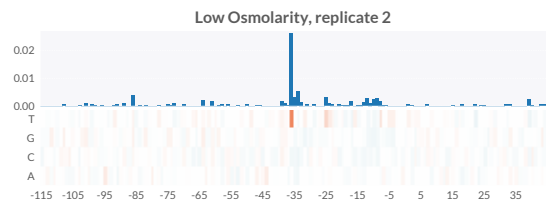

Copper Sulfate (2mM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

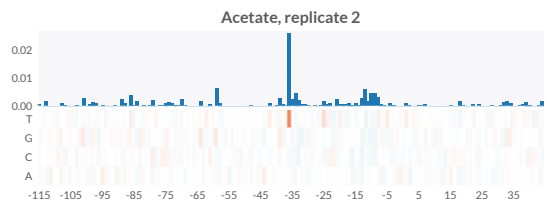

Anaerobic, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

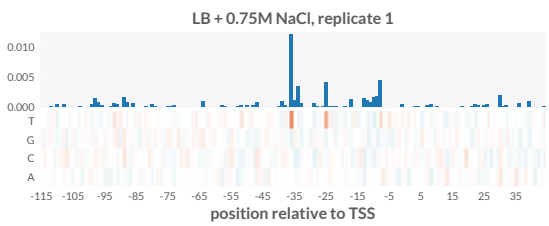

Copper Sulfate (2mM), replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

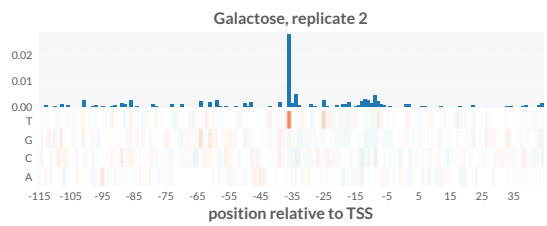

Low Osmolarity, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

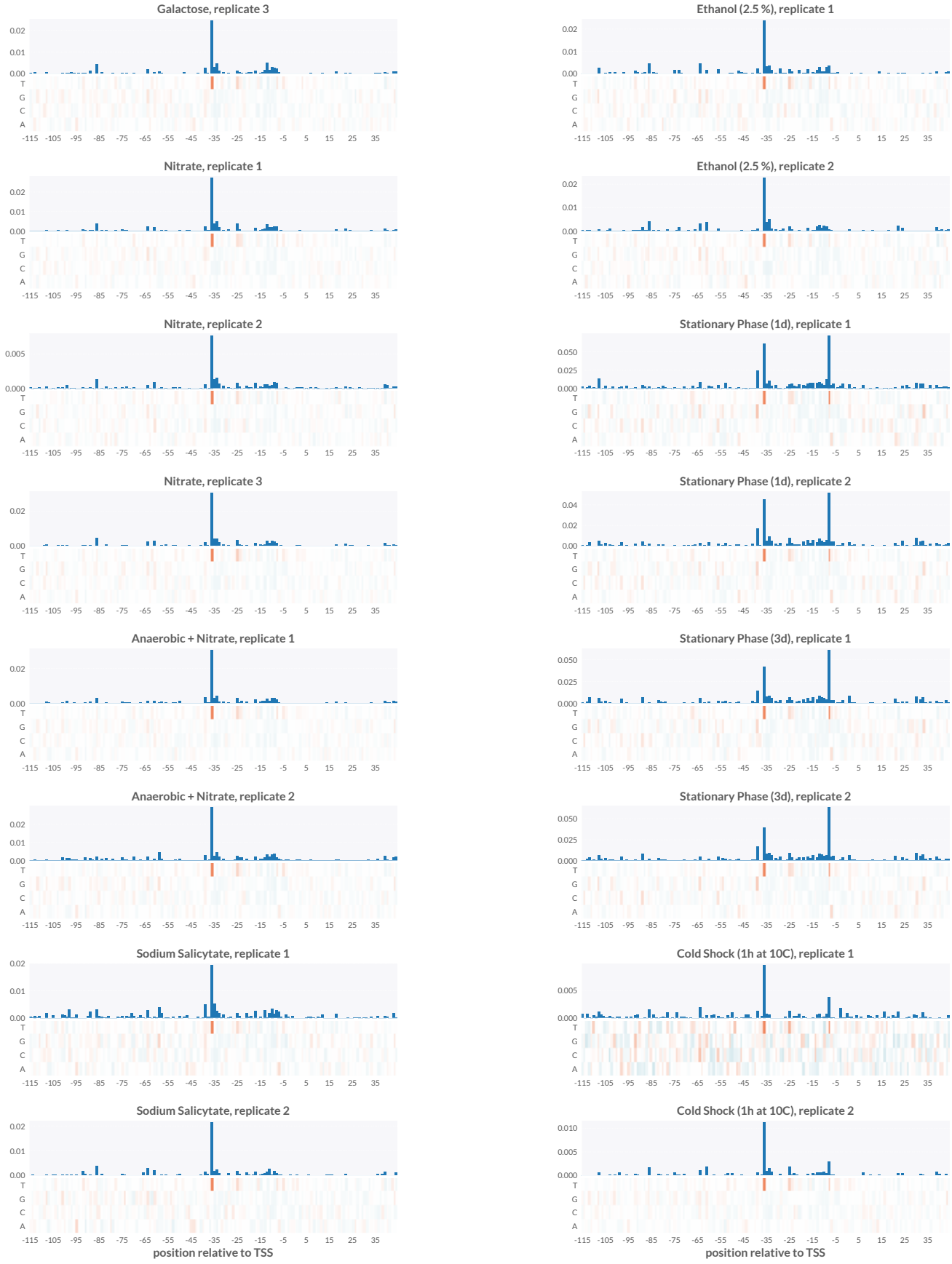

Low Osmolarity, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

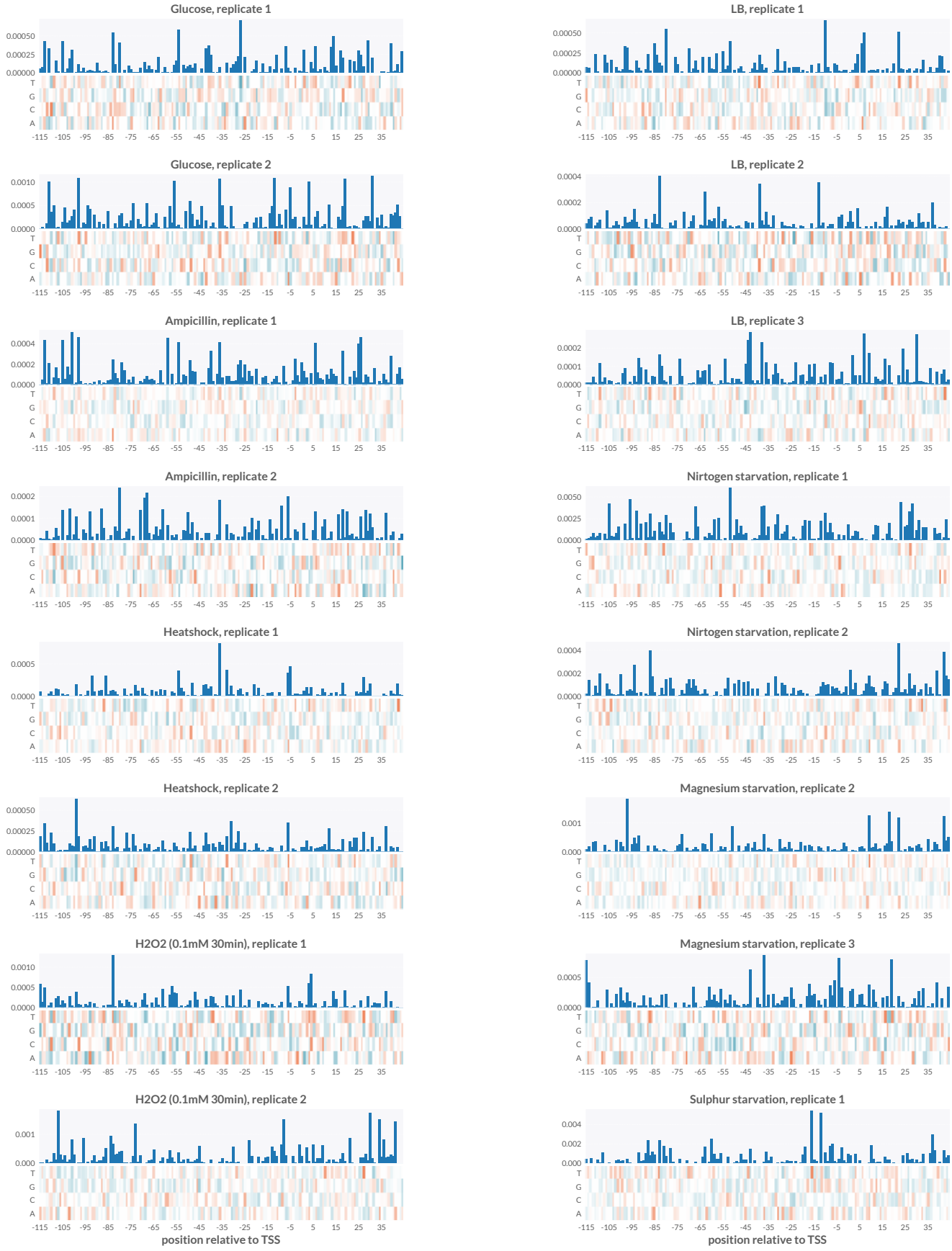

LB + 0.75M NaCl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Galactose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

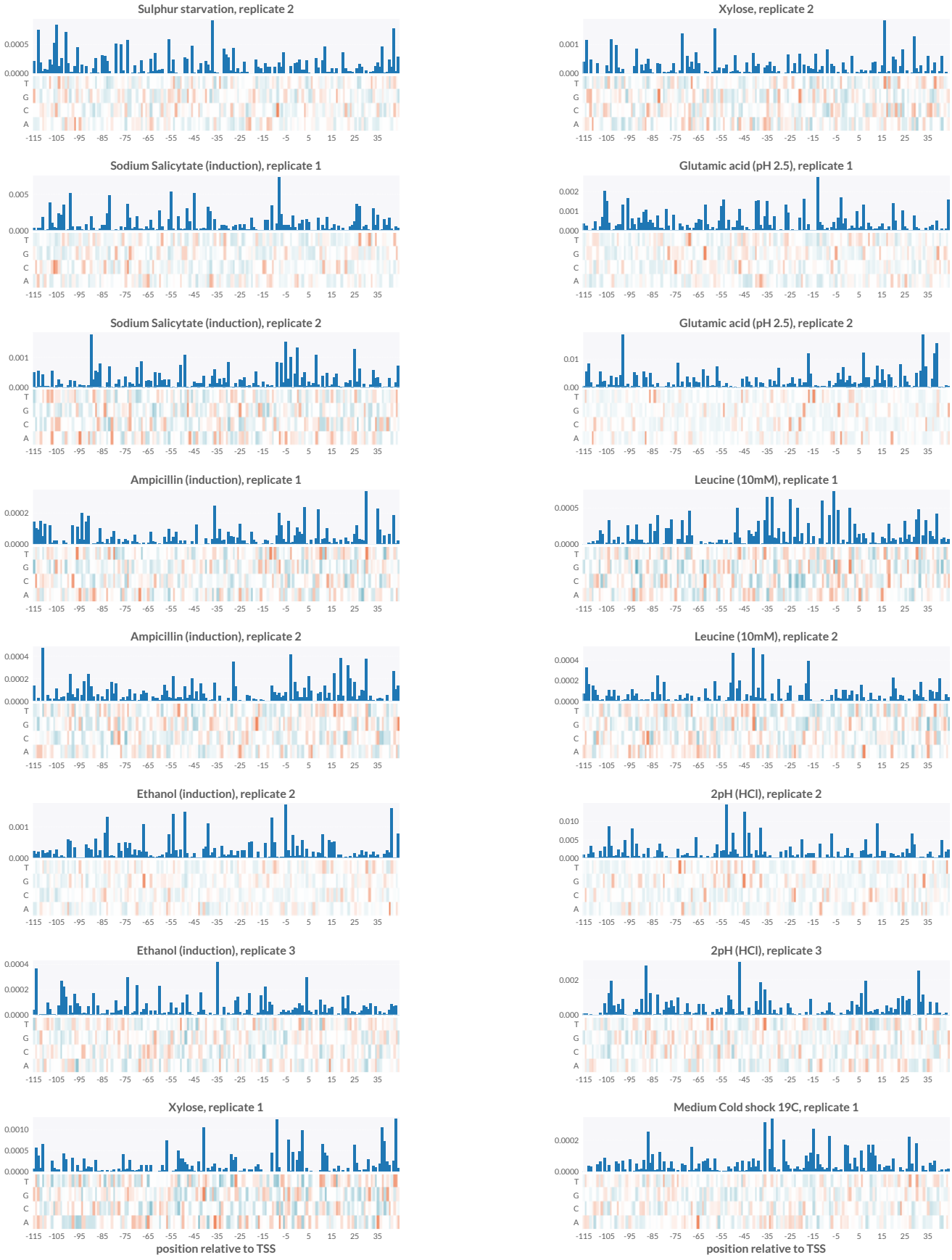
hdeAp2


Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

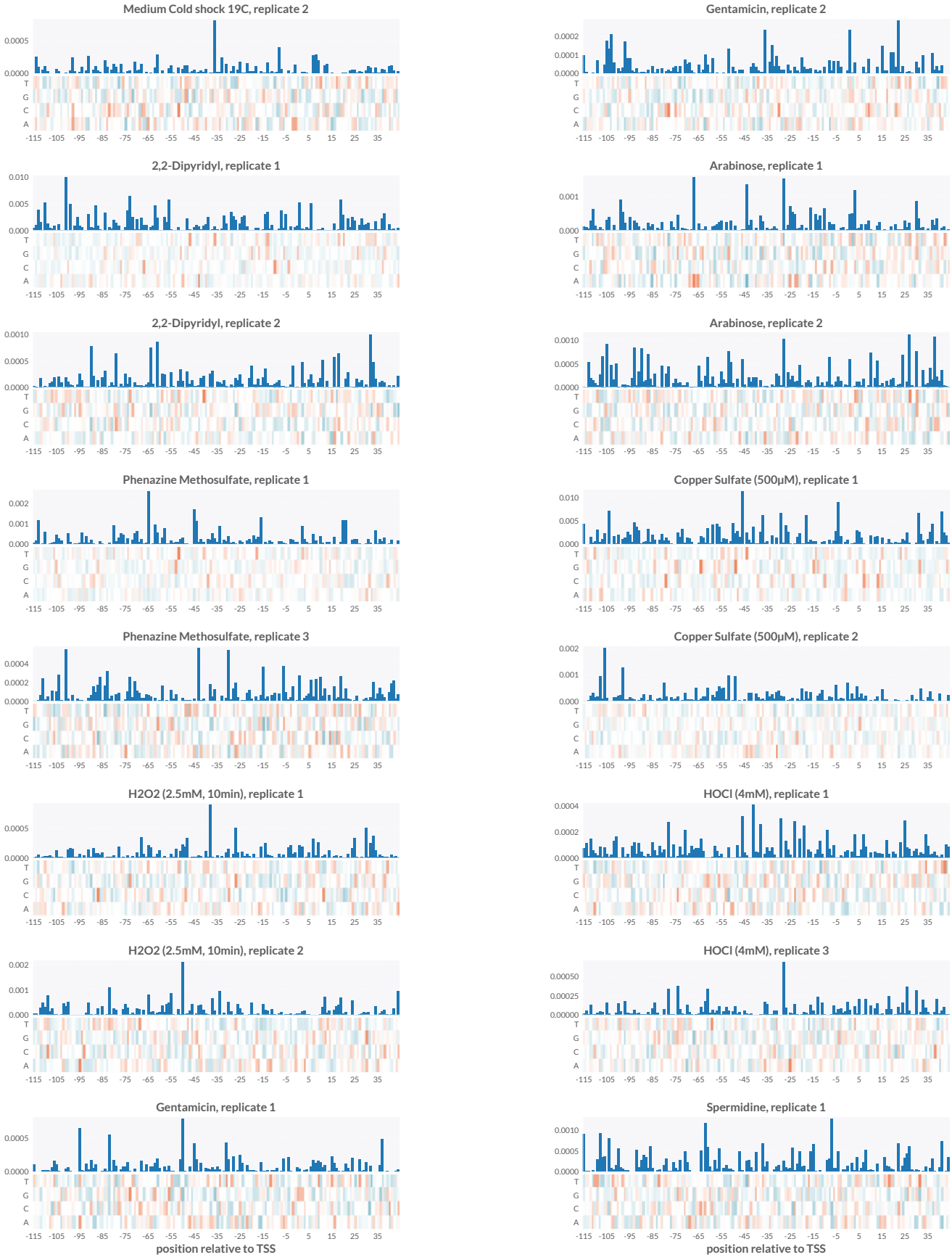
hyuA_predicted



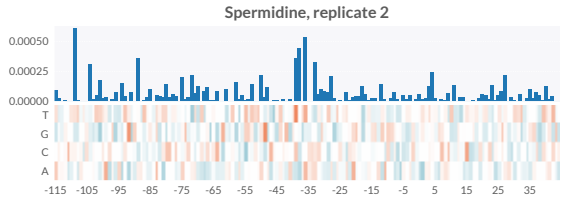
hyuA_predicted

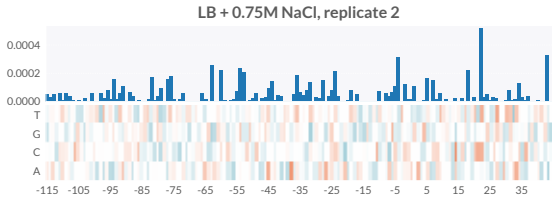


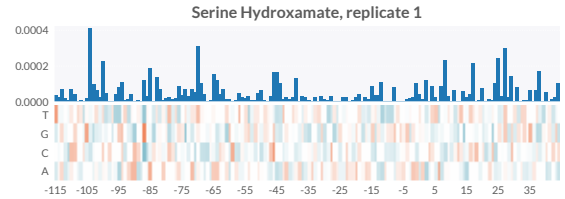
hyuA_predicted

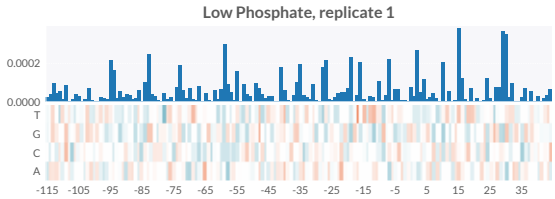


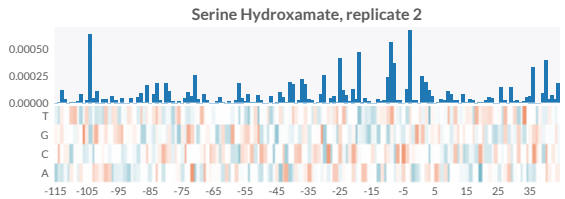
hyuA_predicted

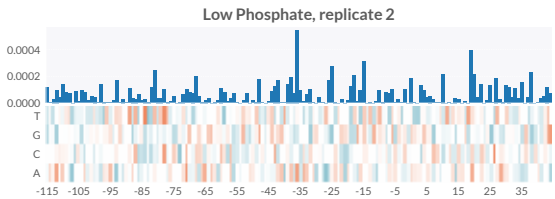


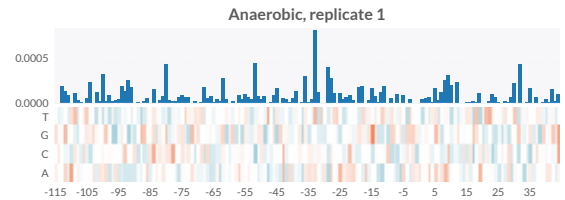


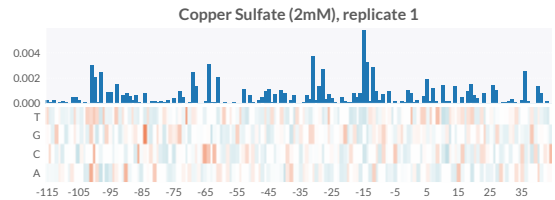


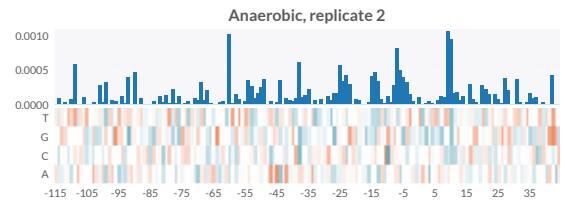


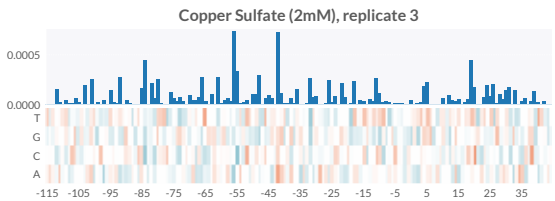


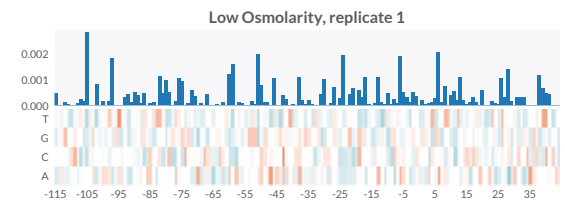


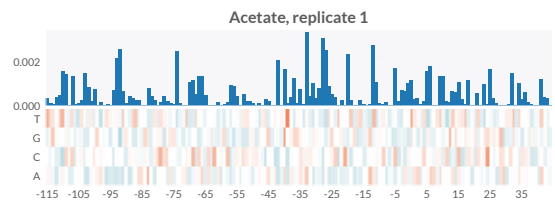


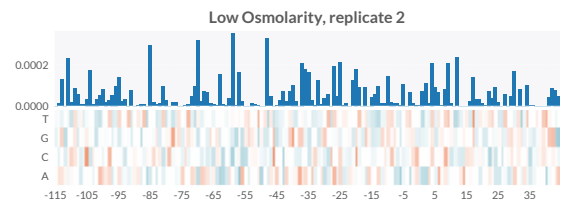


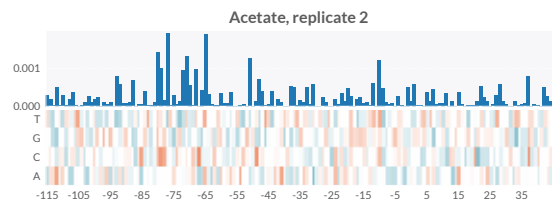


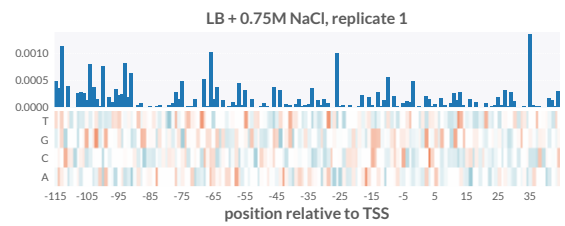


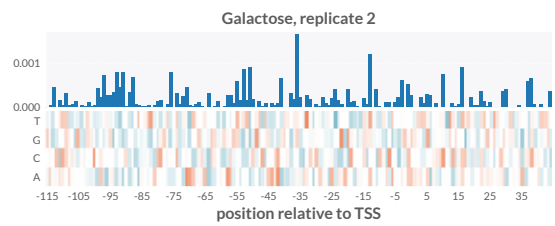




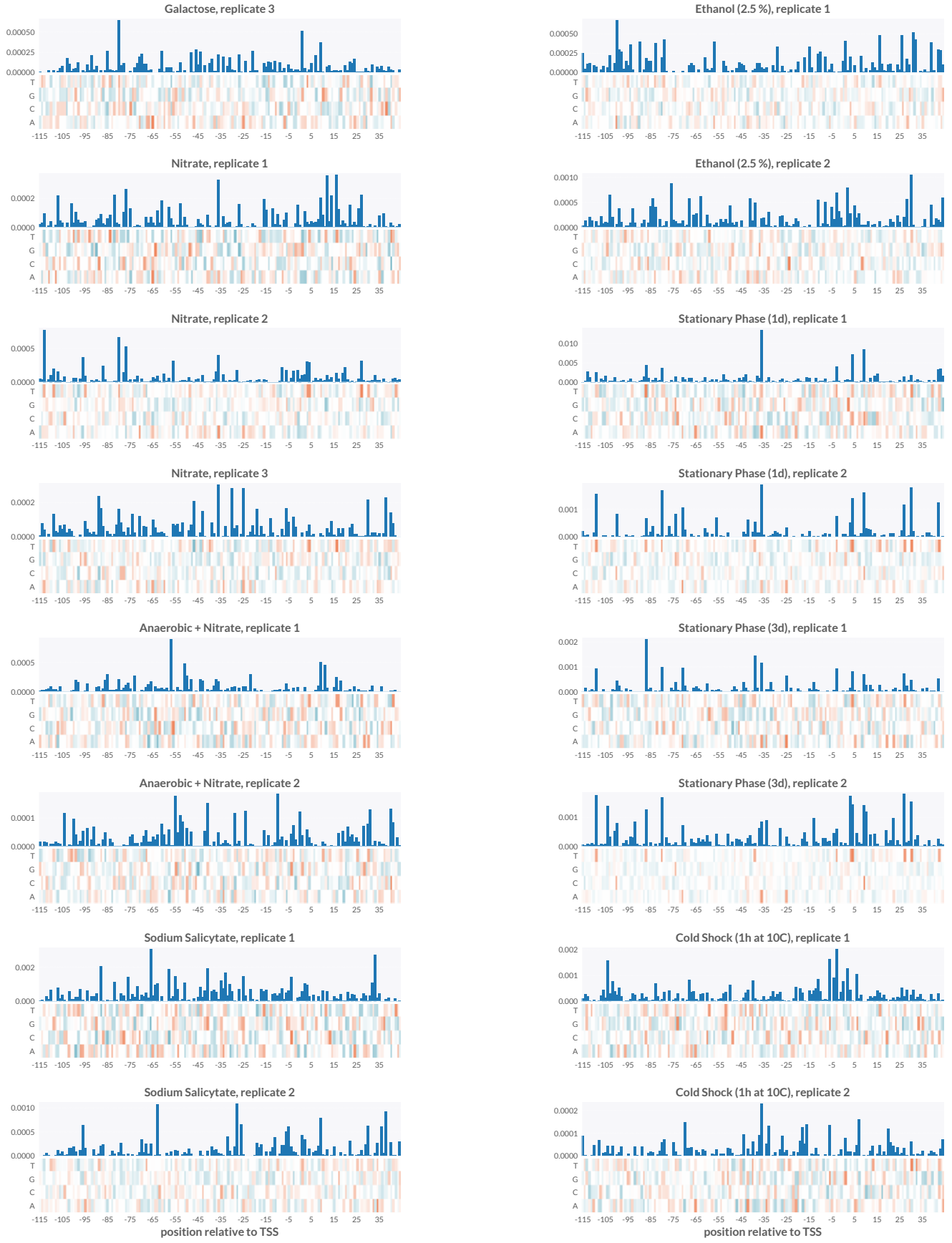




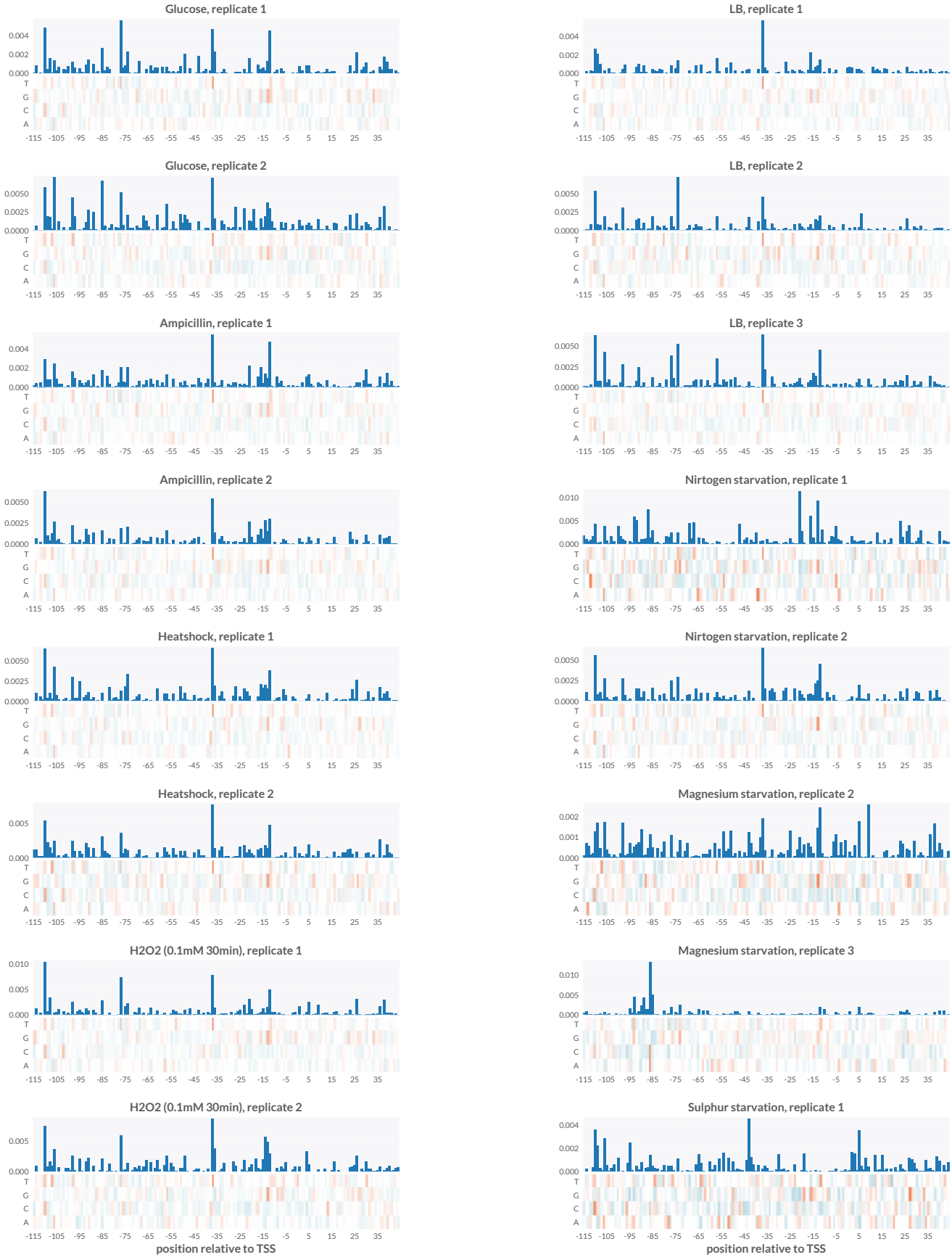




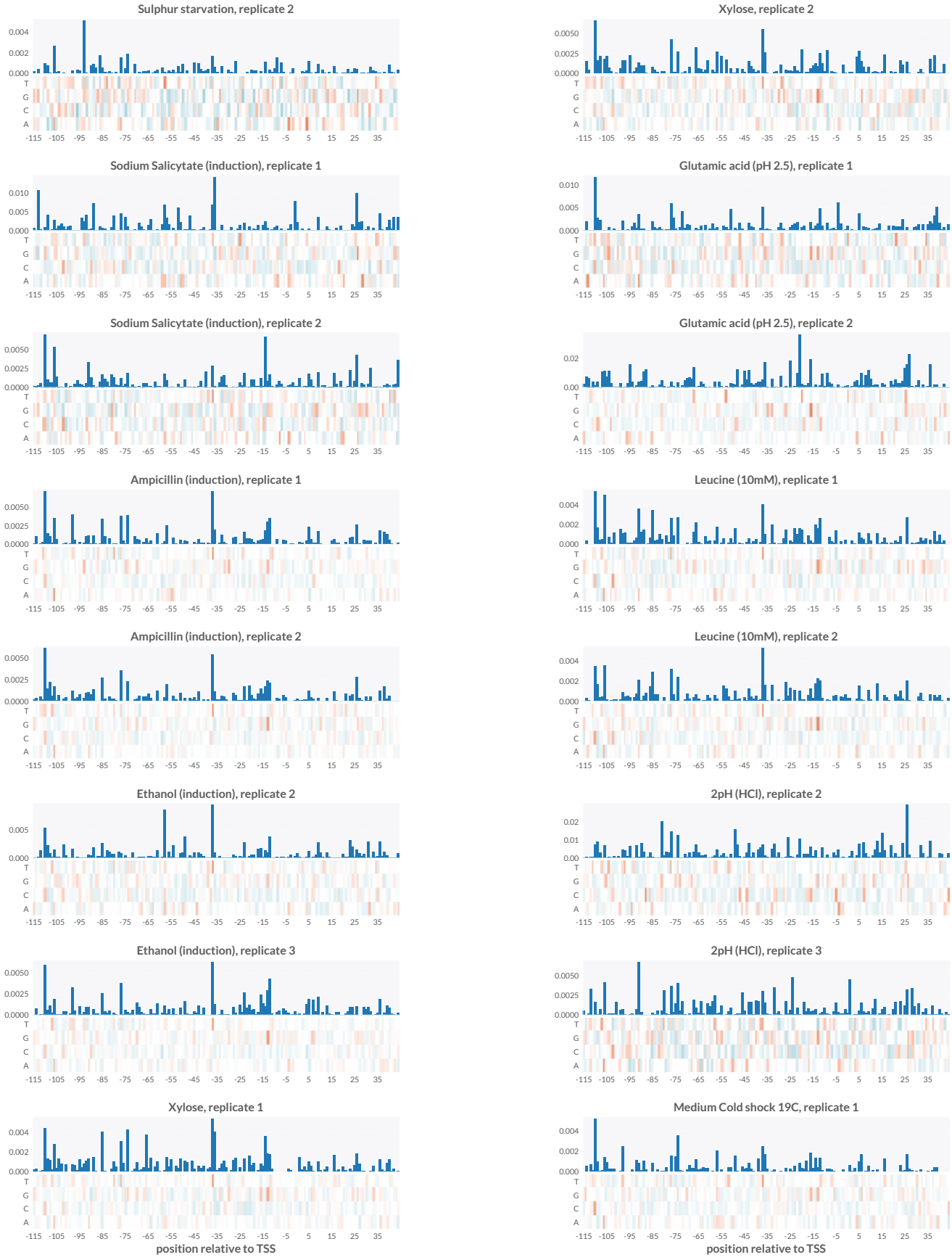
hyuA_predicted



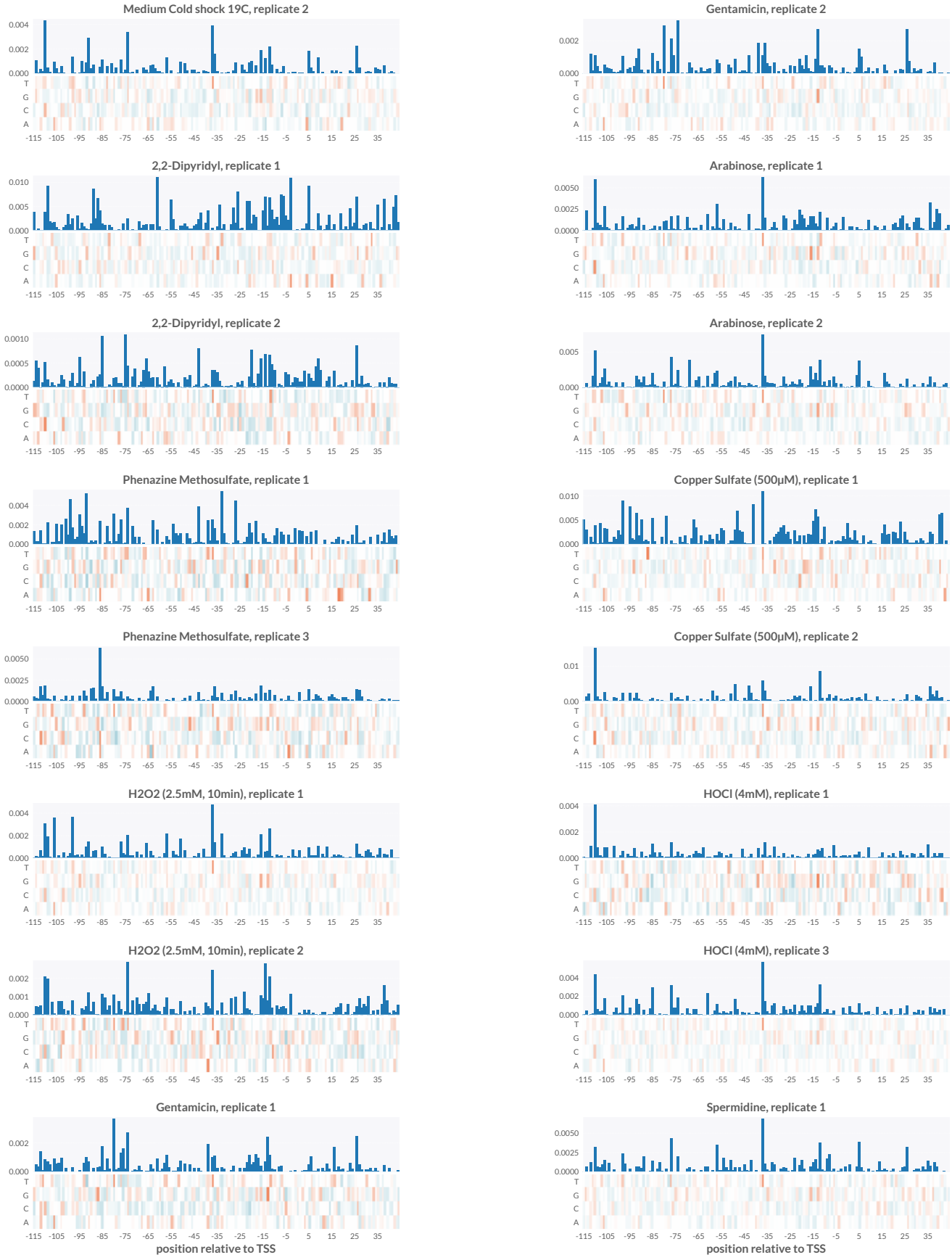
icdC_predicted



icdC_predicted



icdC_predicted



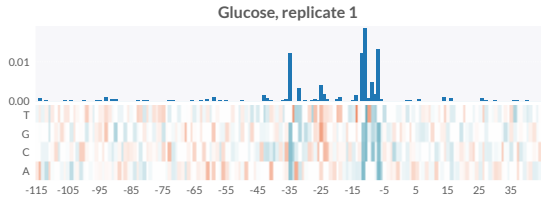
icdC_predicted

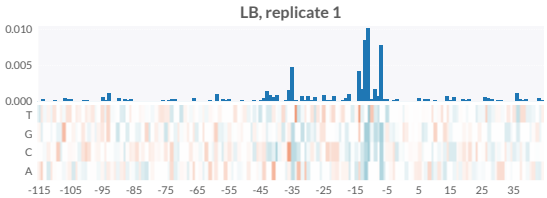


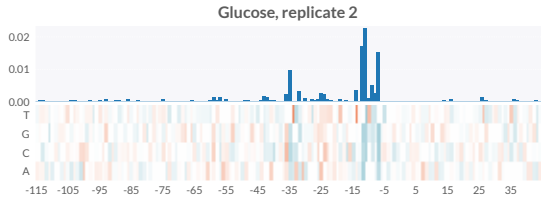
icdC_predicted

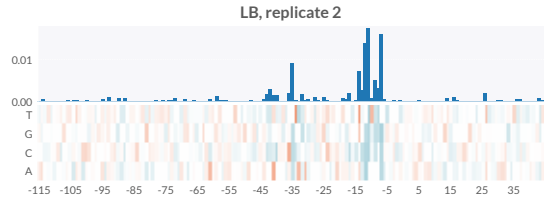


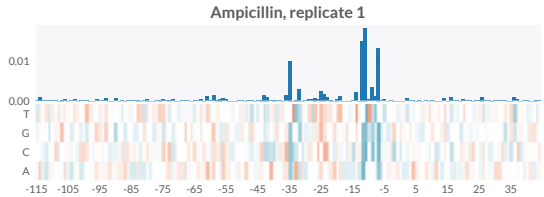
ihfAp4

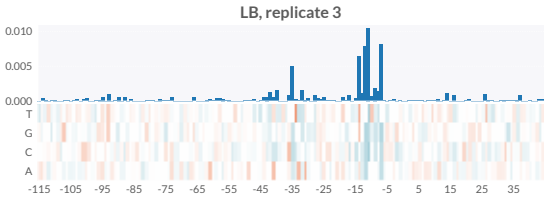

Glucose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

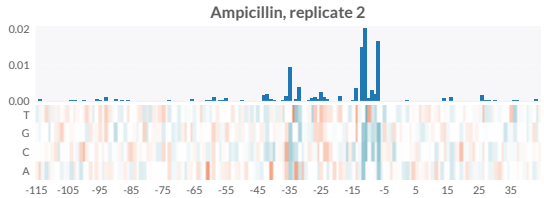

LB, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

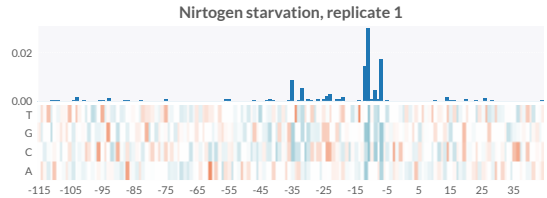

Glucose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

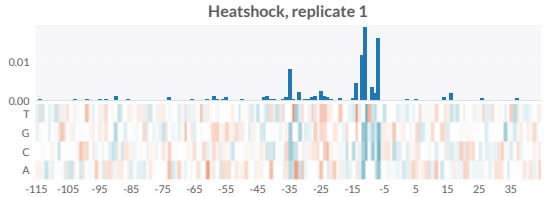

LB, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

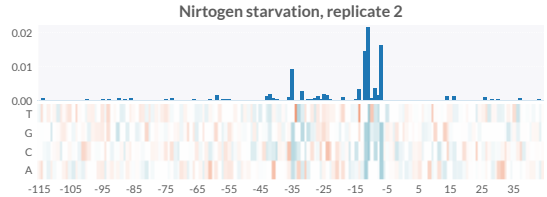

Ampicillin, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

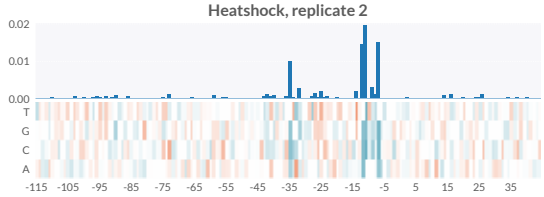

LB, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

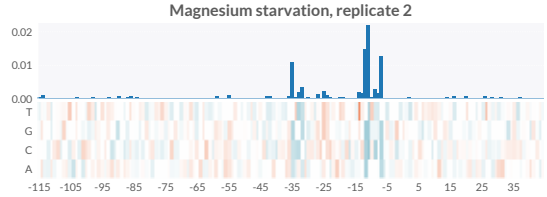

Ampicillin, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

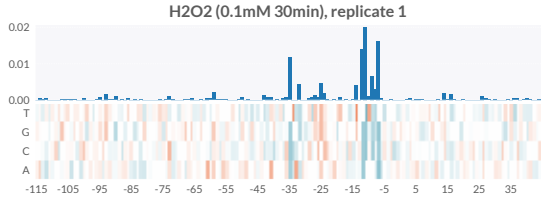

Nirtogen starvation, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

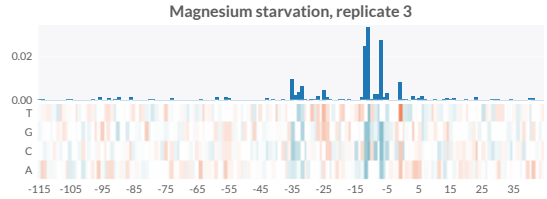

Heatshock, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

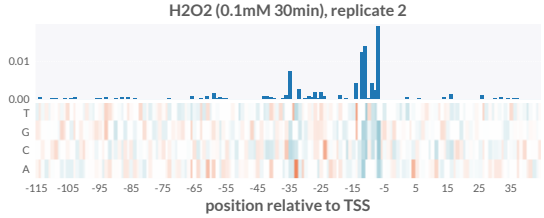

Nirtogen starvation, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

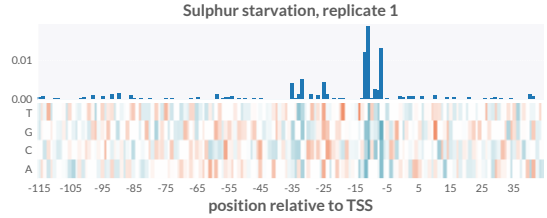

Heatshock, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

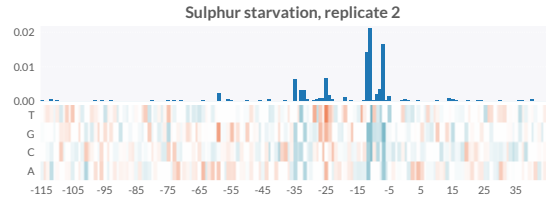

H2O2 (0.1mM 30min), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

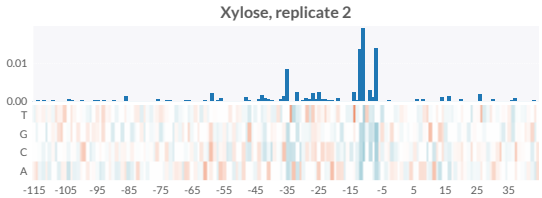

Magnesium starvation, replicate 3
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

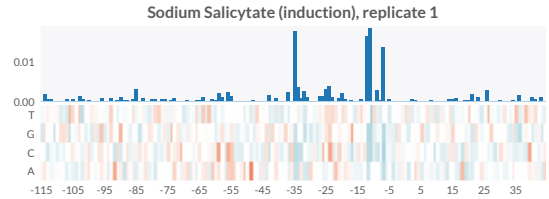

H2O2 (0.1mM 30min), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

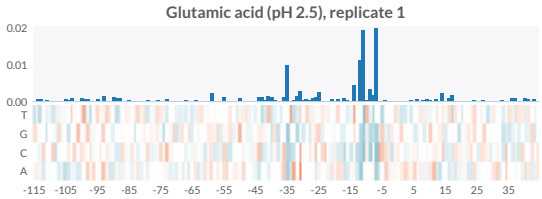

Sulphur starvation, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

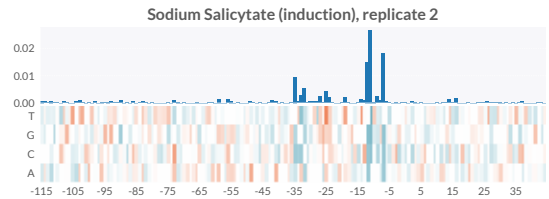
ihfAp4

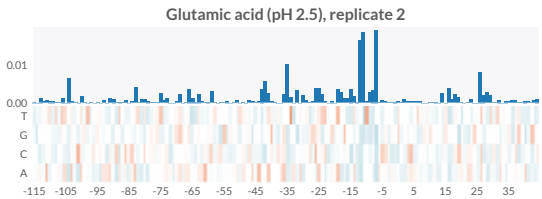

Sulphur starvation, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

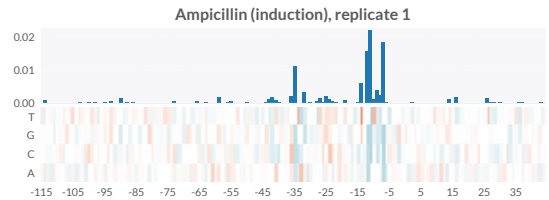

Xylose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

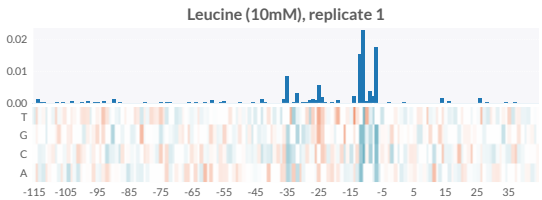

Sodium Salicytate (induction), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

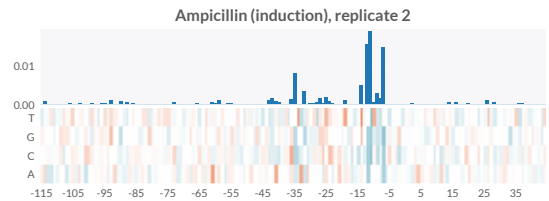

Glutamic acid (pH 2.5), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

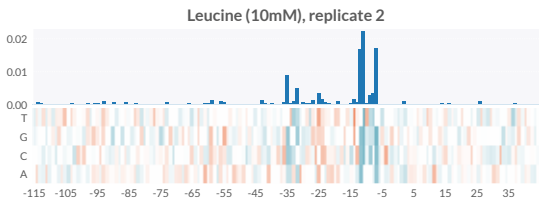

Sodium Salicytate (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

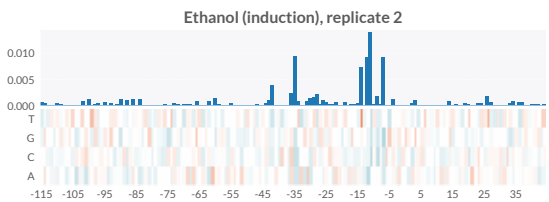

Glutamic acid (pH 2.5), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

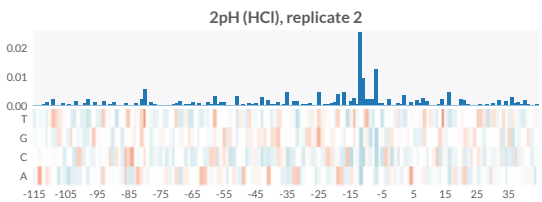

Ampicillin (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

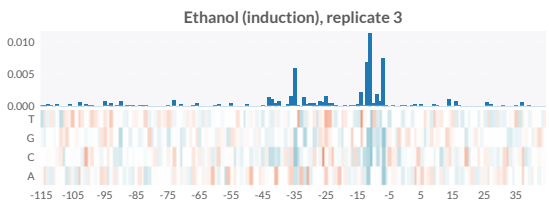

Leucine (10mM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

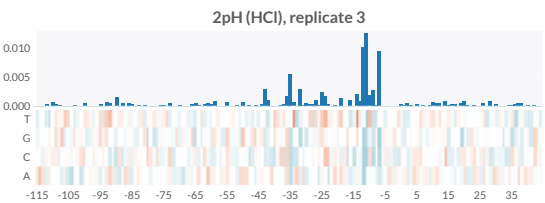

Ampicillin (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

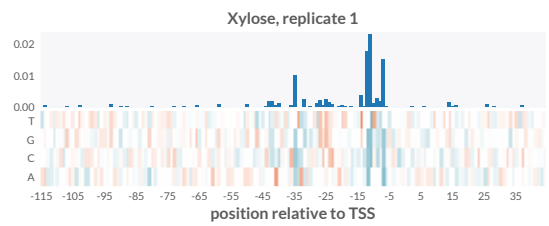

Leucine (10mM), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

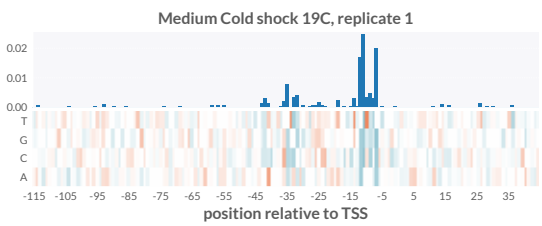

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

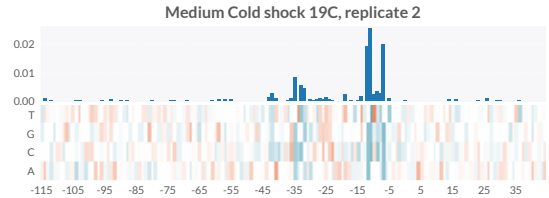

Ethanol (induction), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

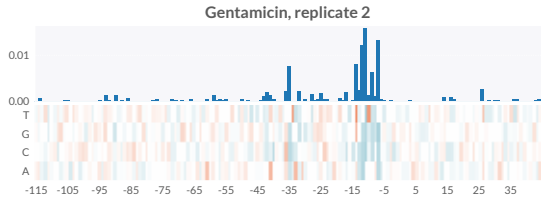

2pH (HCl), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

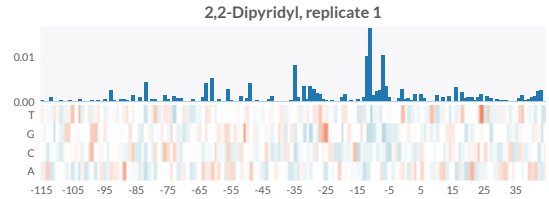

Xylose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

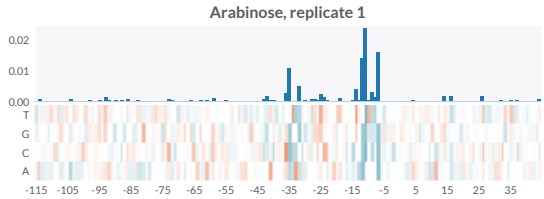

Medium Cold shock 19C, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

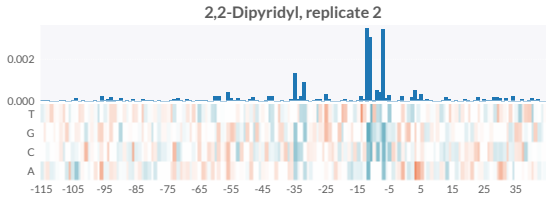
ihfAp4

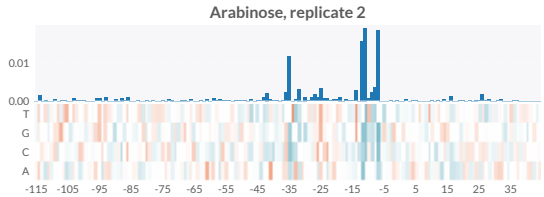

Medium Cold shock 19C, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

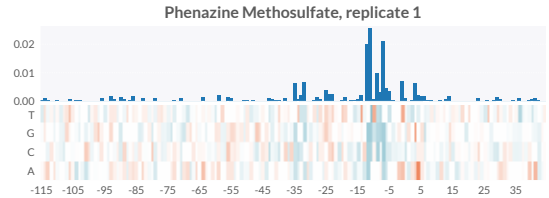

Gentamicin, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

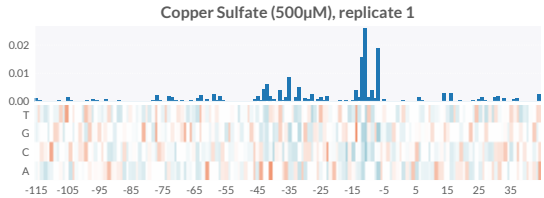

2,2-Dipyridyl, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

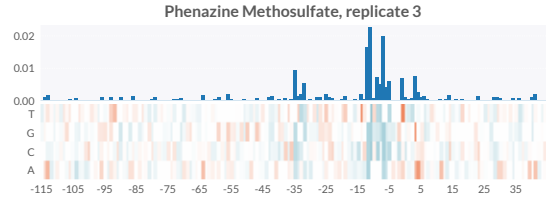

Arabinose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

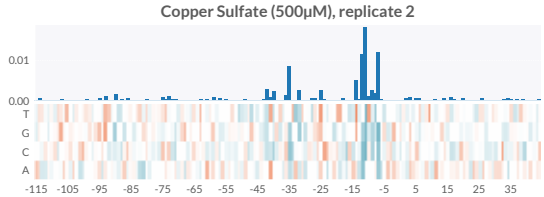

2,2-Dipyridyl, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

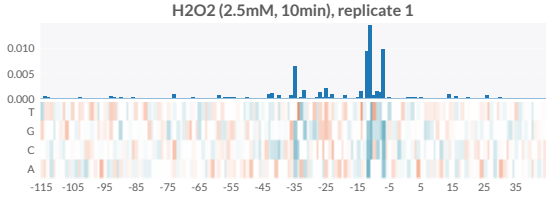

Arabinose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

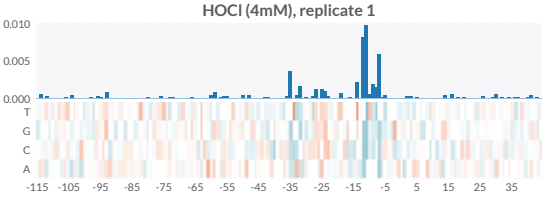

Phenazine Methosulfate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

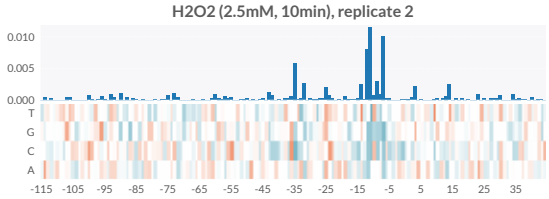

Copper Sulfate (500µM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

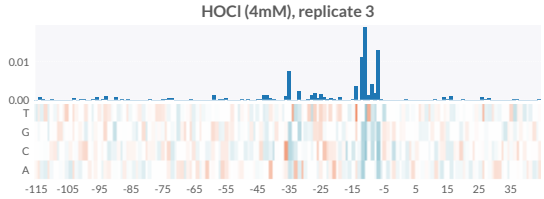

Phenazine Methosulfate, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

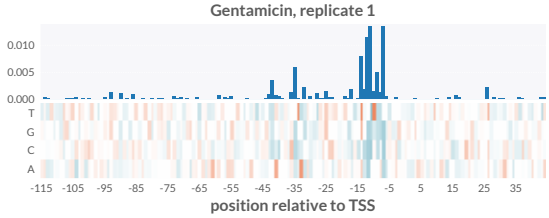

Copper Sulfate (500µM), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

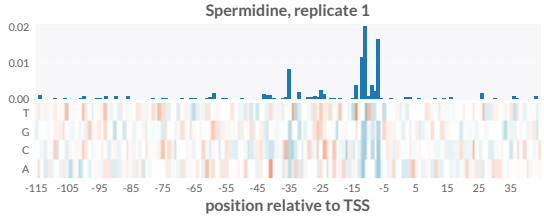

H2O2 (2.5mM, 10min), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


H2O2 (2.5mM, 10min), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

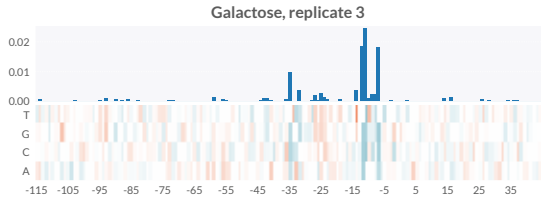

Gentamicin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

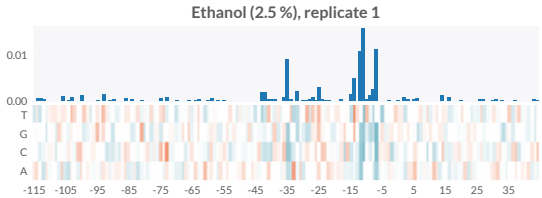

Spermidine, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

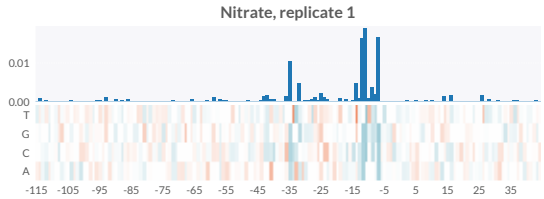
ihfAp4

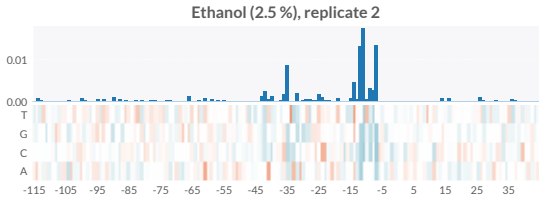

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

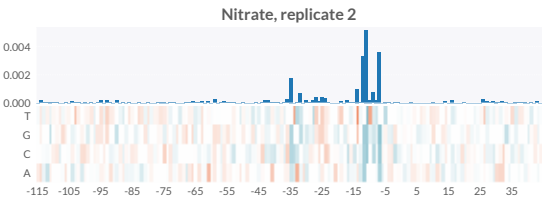
ihfAp4

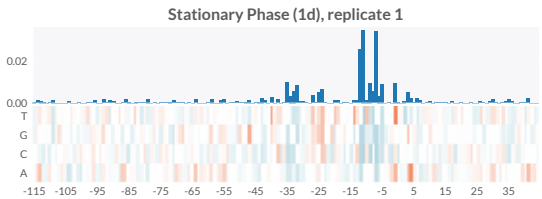

Galactose, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

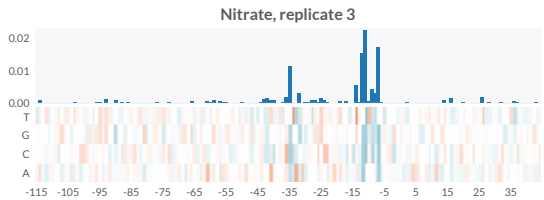

Ethanol (2.5 %), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

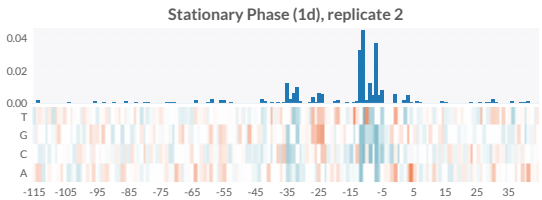

Nitrate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

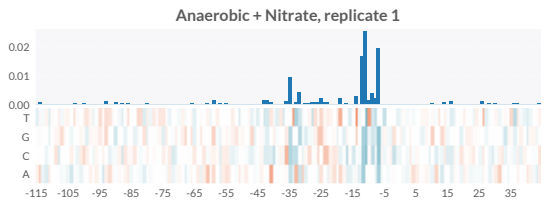

Ethanol (2.5 %), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

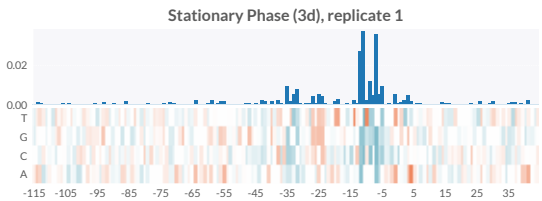

Nitrate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

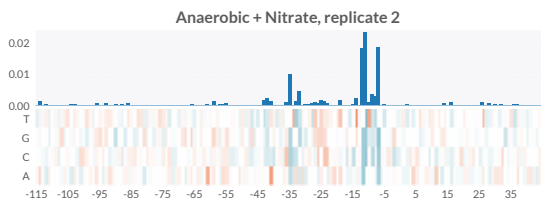

Stationary Phase (1d), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

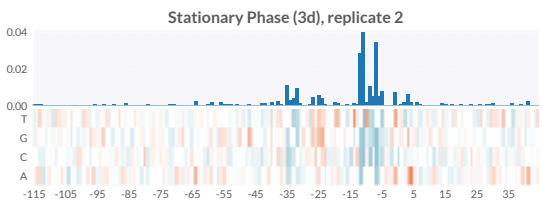

Nitrate, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

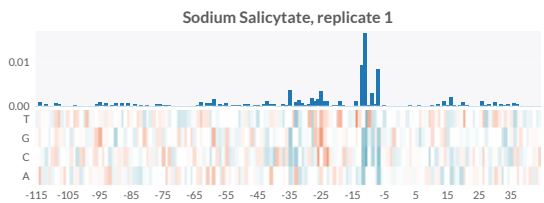

Stationary Phase (1d), replicate 2
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

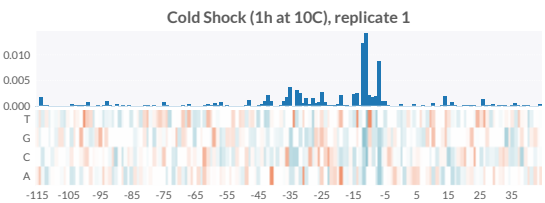

Anaerobic + Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

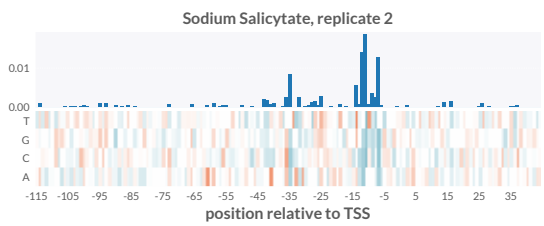

Stationary Phase (3d), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

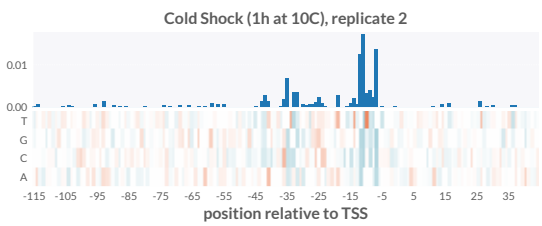

Anaerobic + Nitrate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

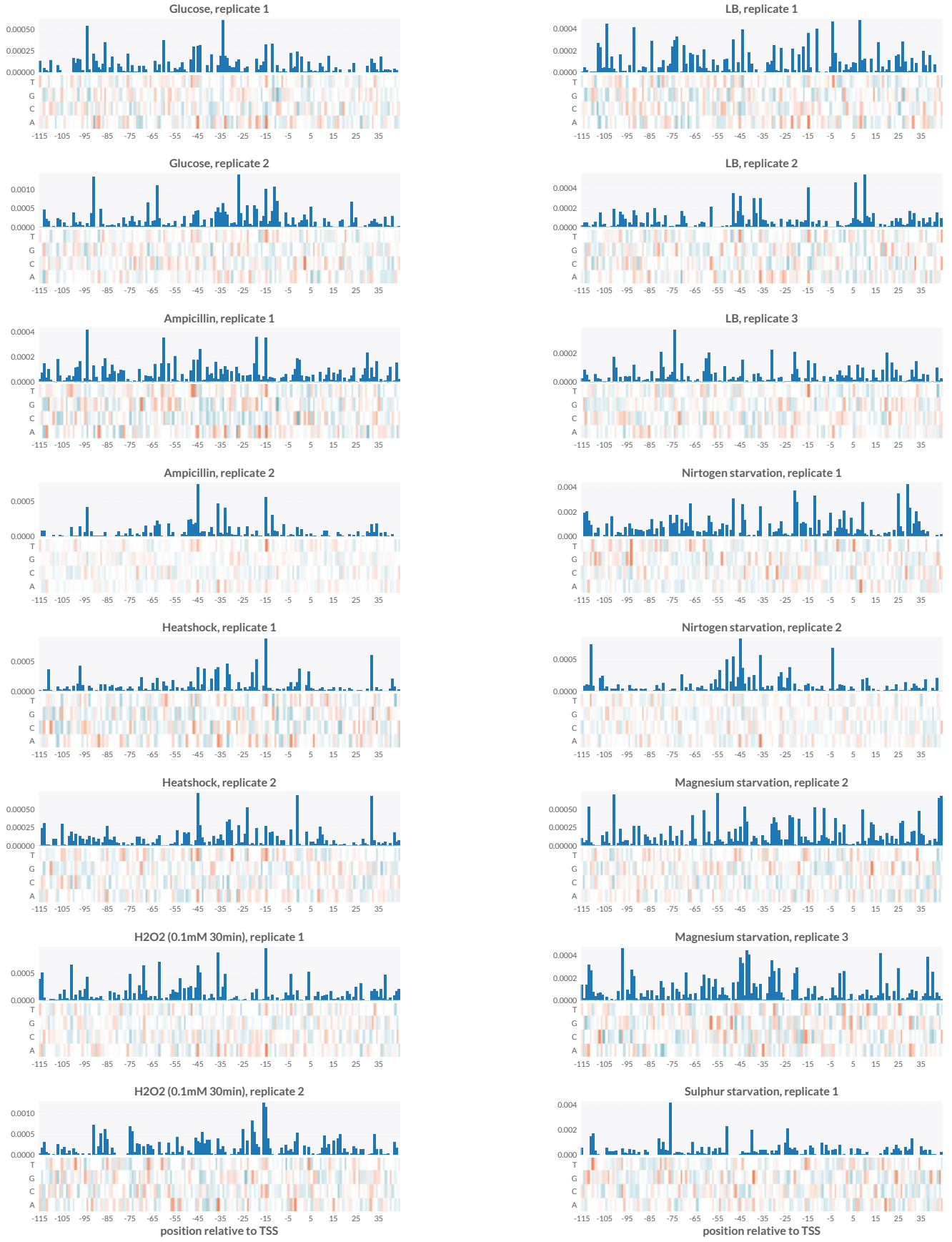

Sodium Salicytate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

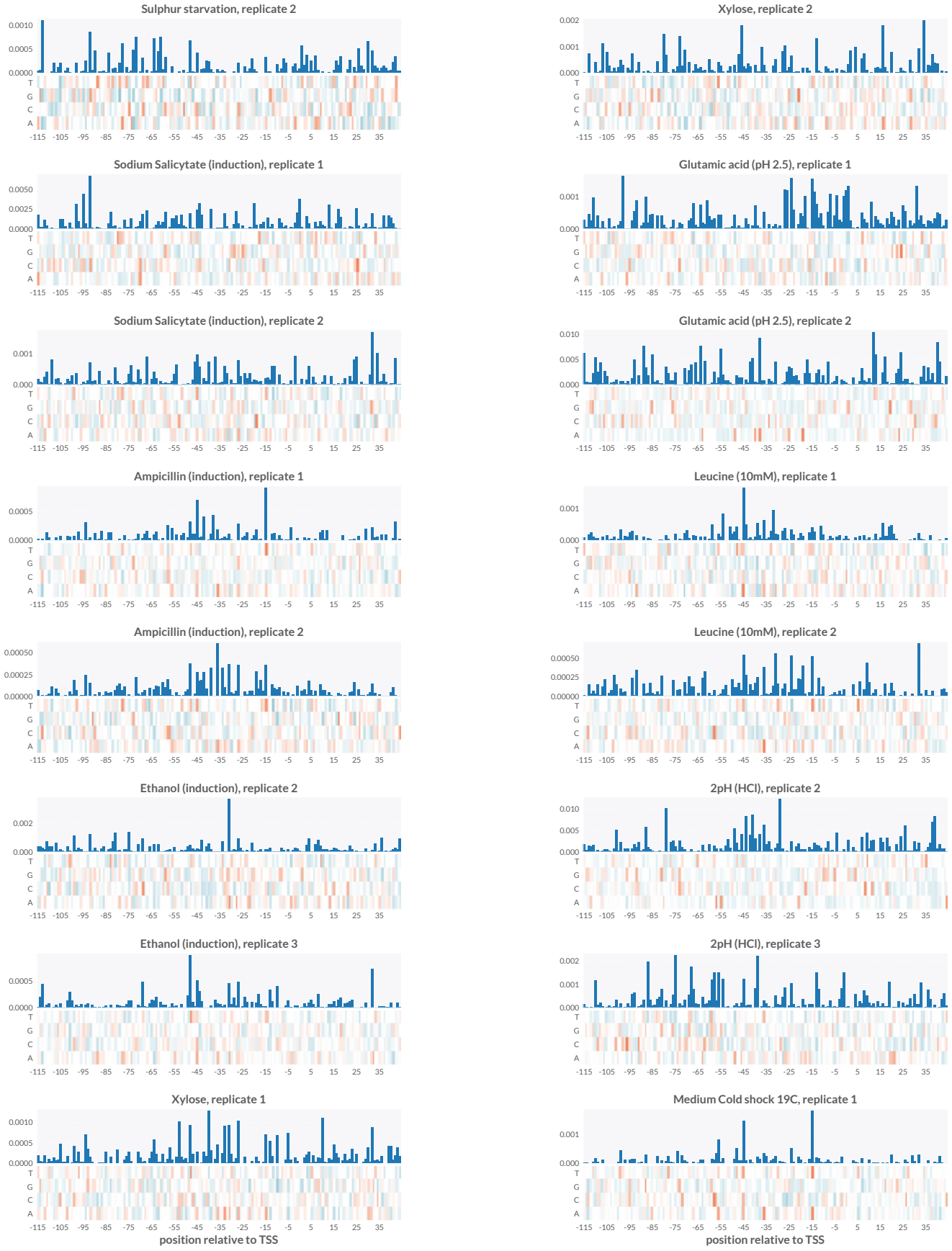

Sodium Salicytate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

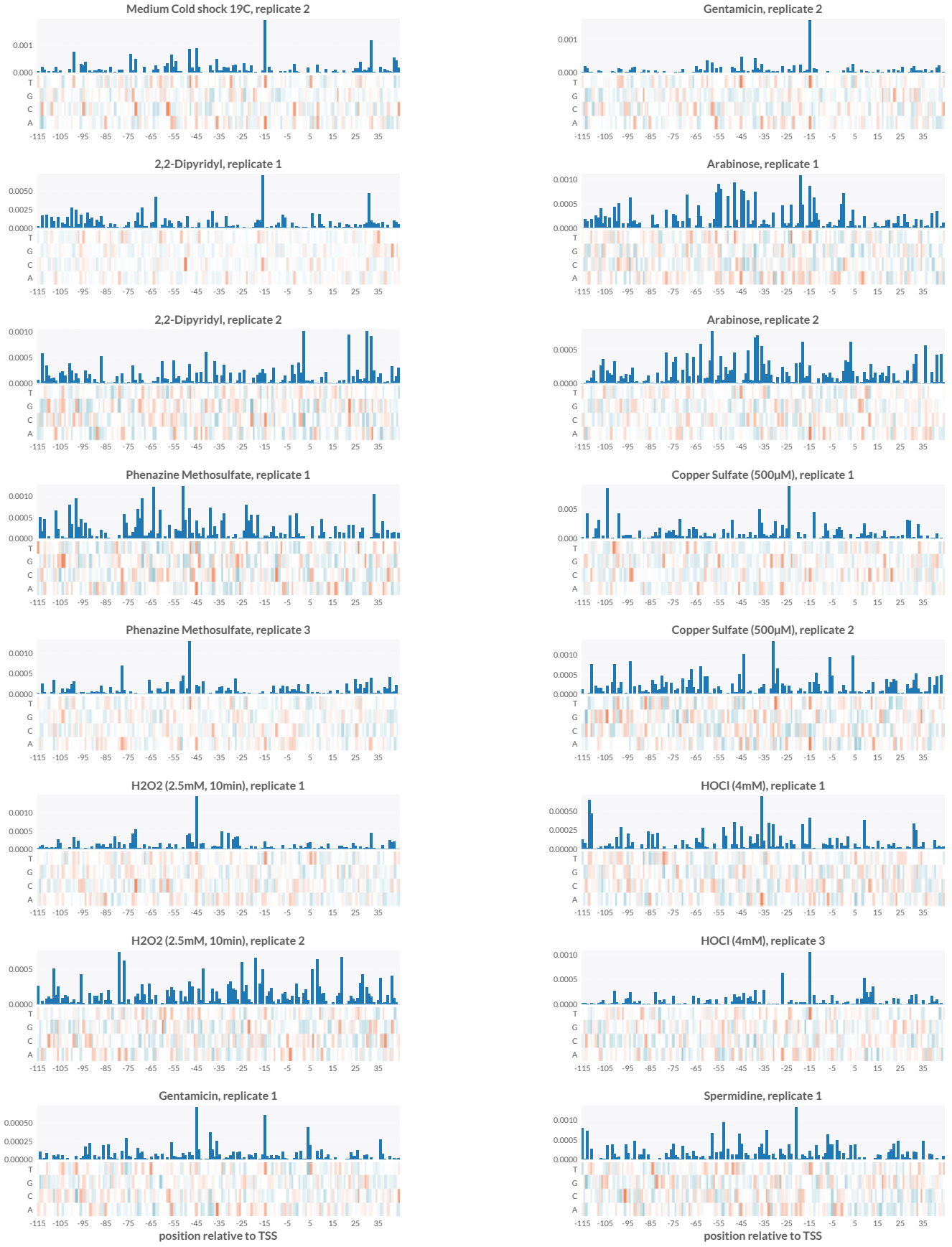
intE_xisE_ymfH_predicted



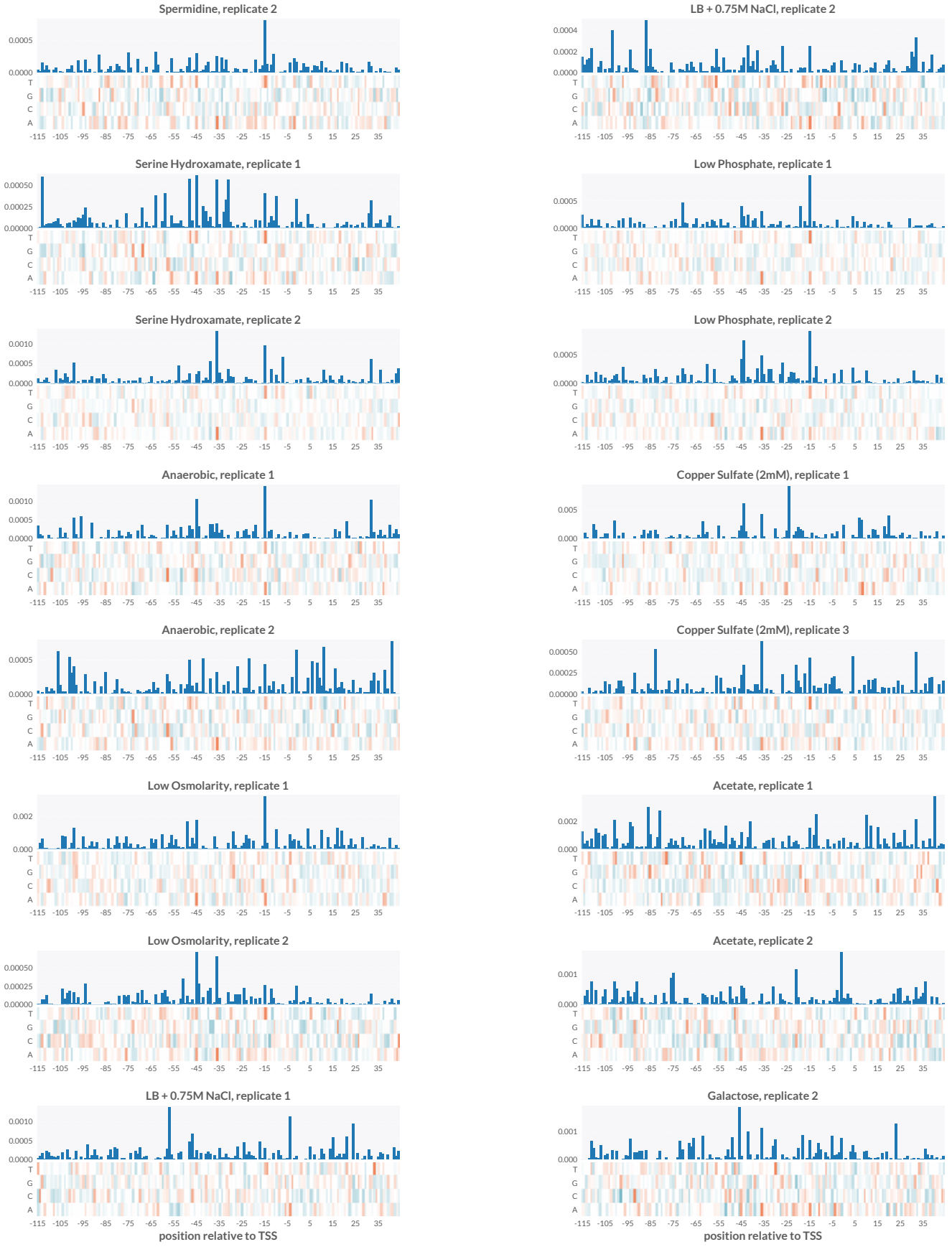
intE_xisE_ymfH_predicted



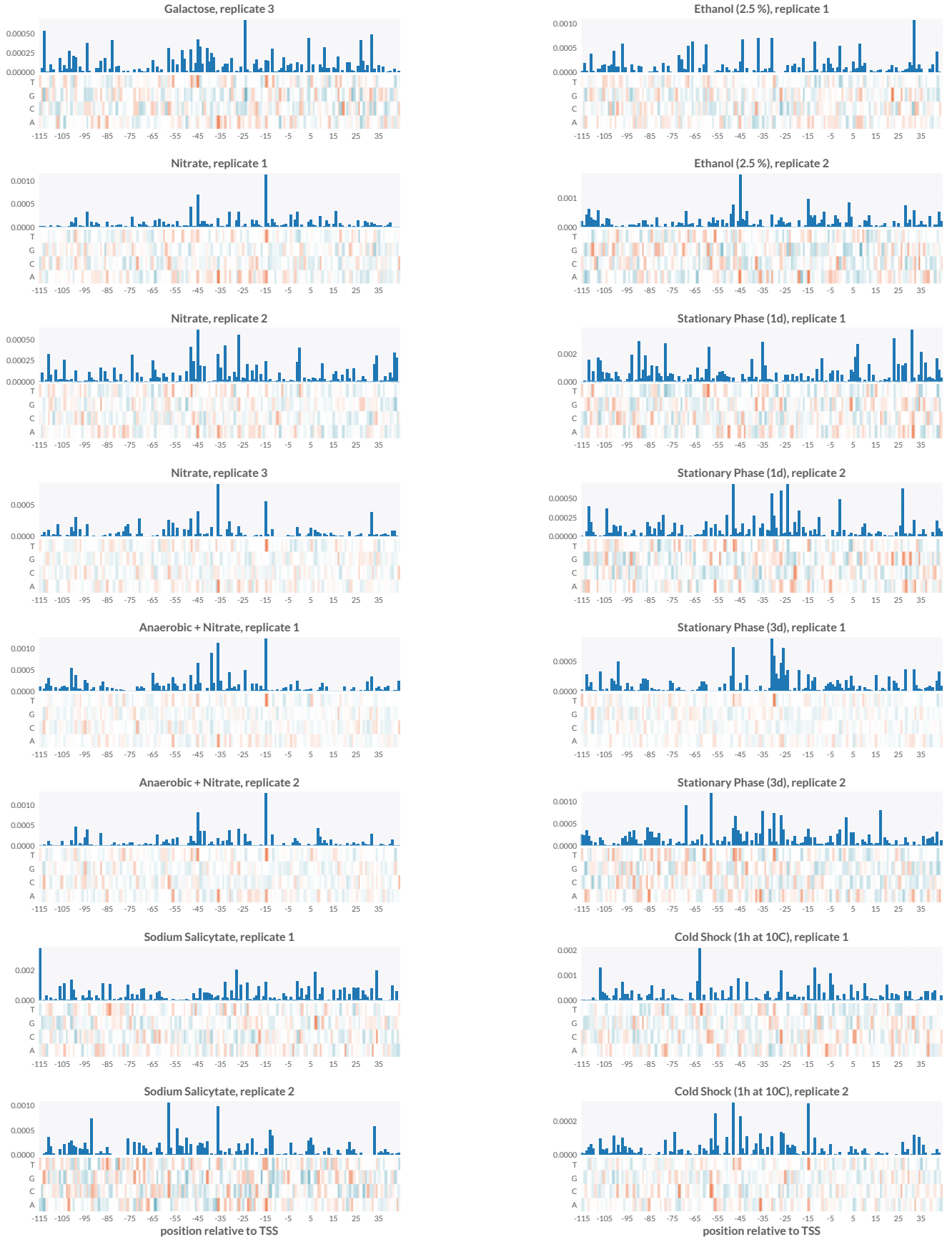
intE_xisE_ymfH_predicted



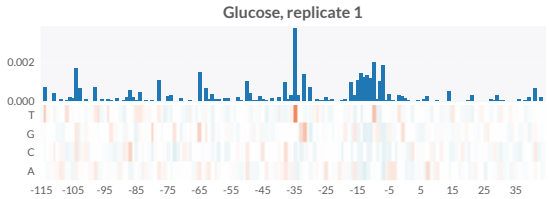
intE_xisE_ymfH_predicted

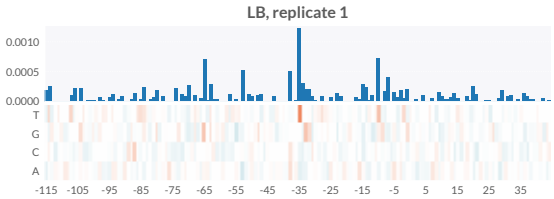


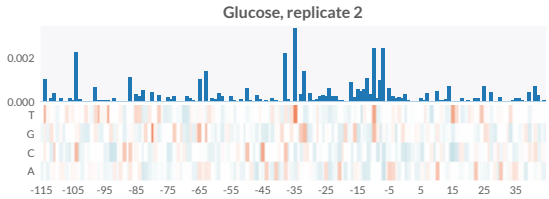
intE_xisE_ymfH_predicted

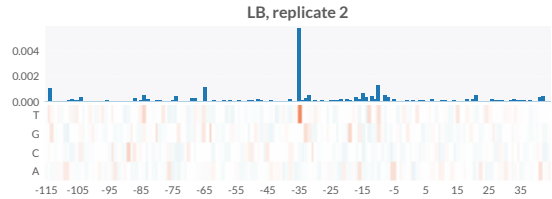


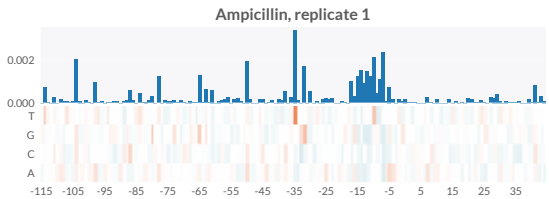
kbpp4

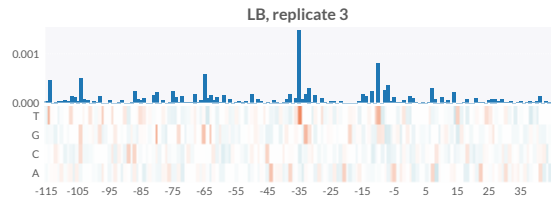

Glucose, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

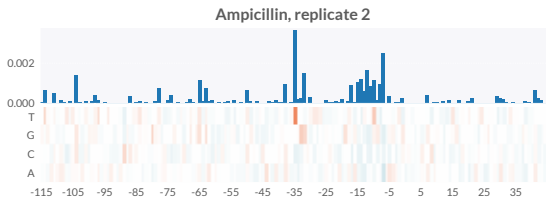

LB, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

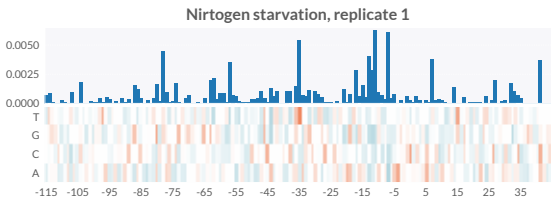

Glucose, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

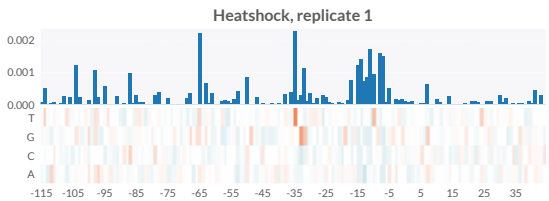

LB, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

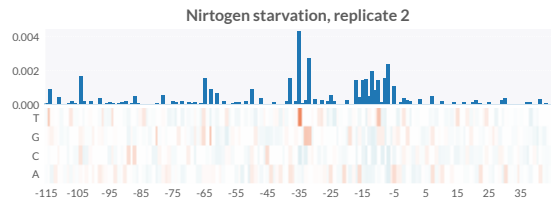

Ampicillin, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

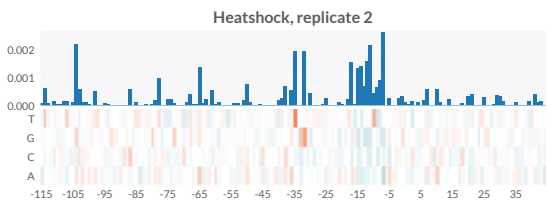

LB, replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

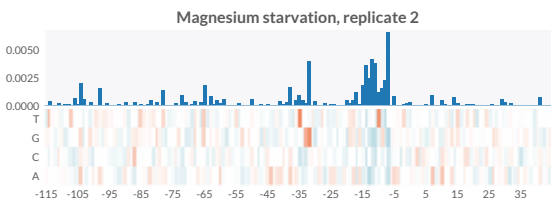

Ampicillin, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

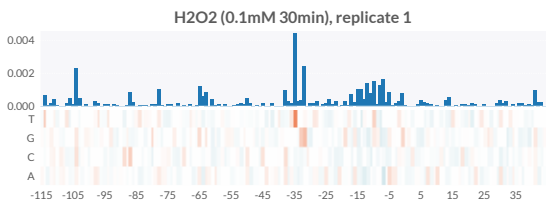

Nirtogen starvation, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

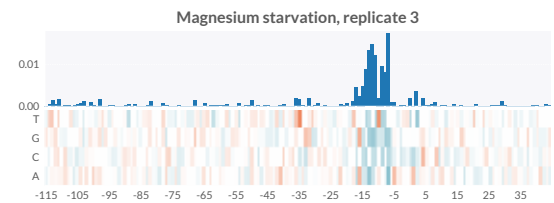

Heatshock, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

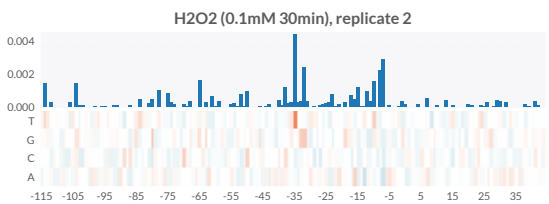

Nirtogen starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

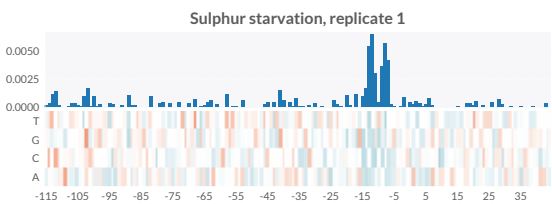

Heatshock, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

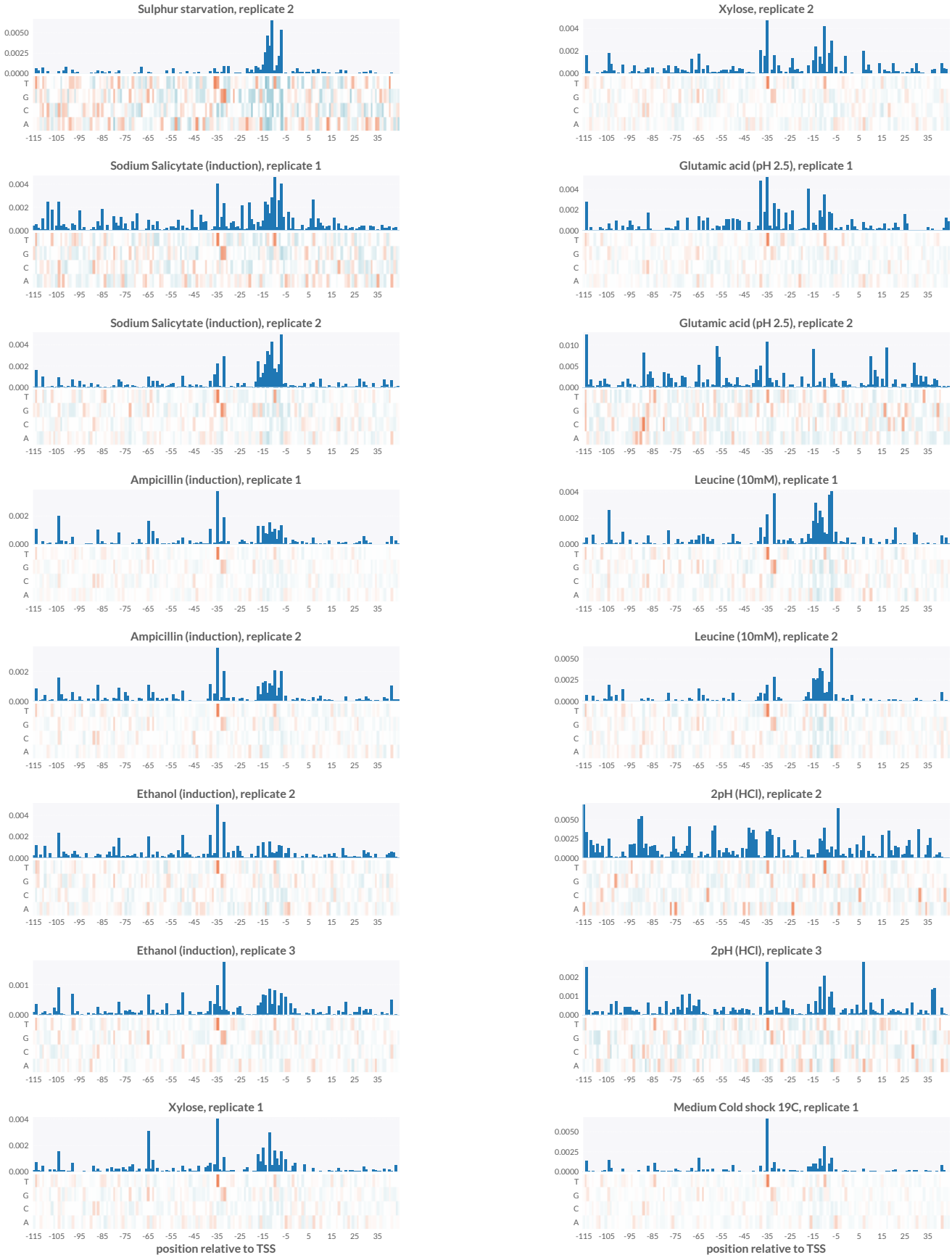

H2O2 (0.1mM 30min), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

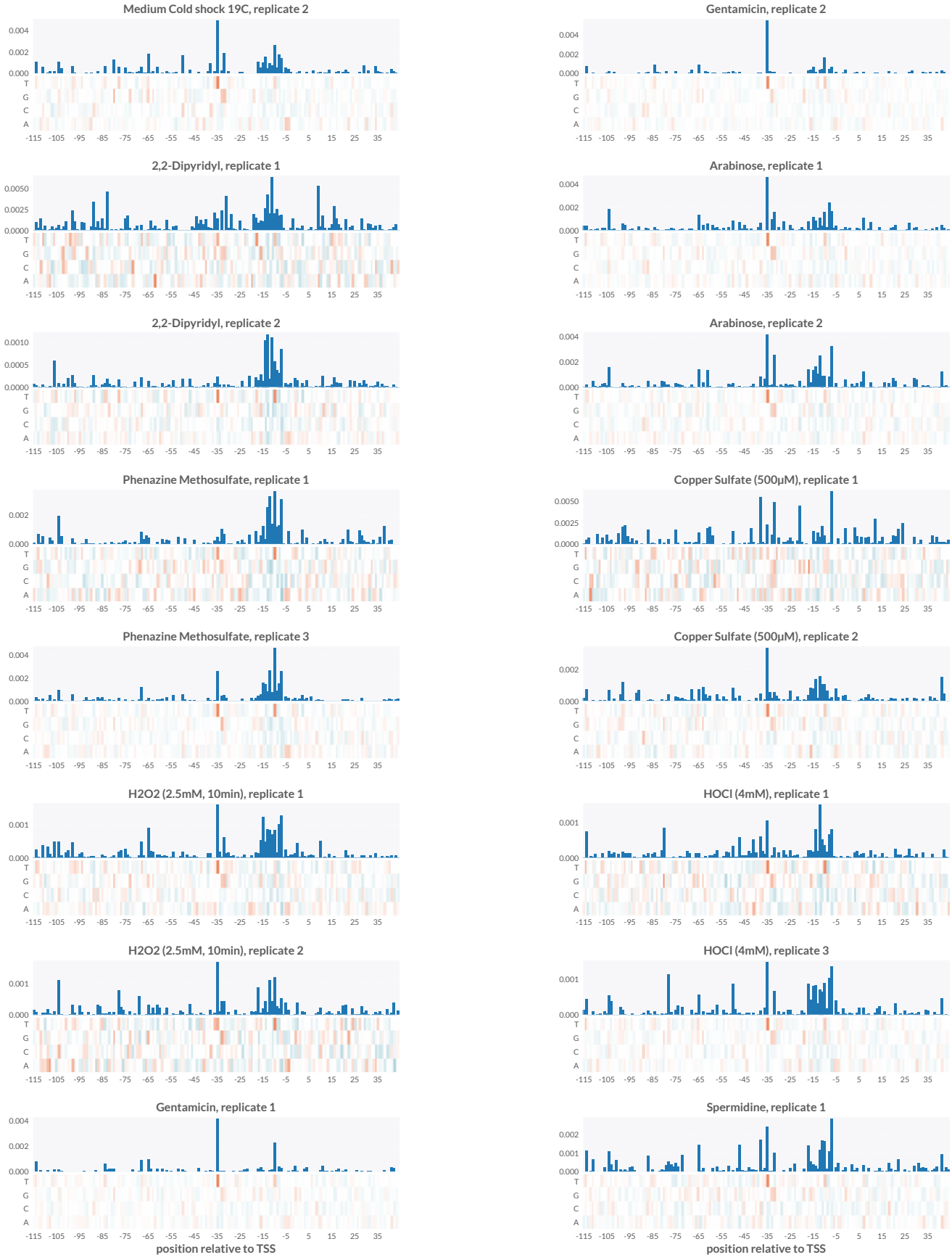

H2O2 (0.1mM 30min), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Sulphur starvation, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

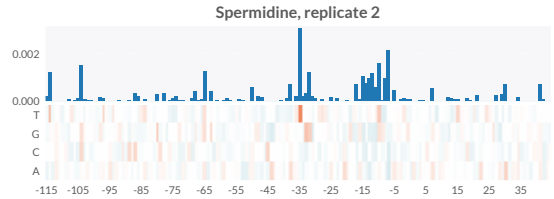
kbpp4

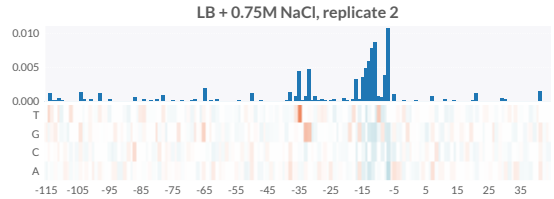

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

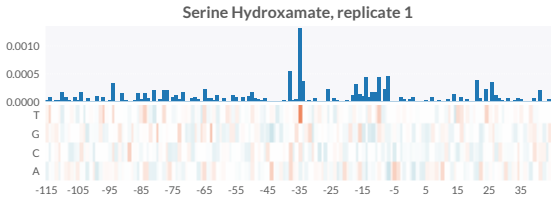
kbpp4

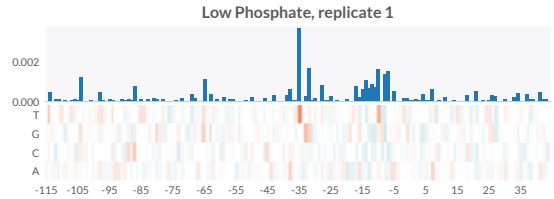

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

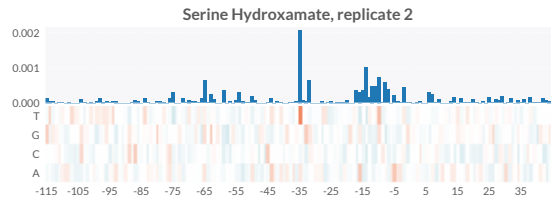
kbpp4

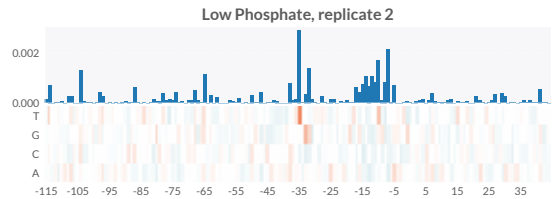

Spermidine, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

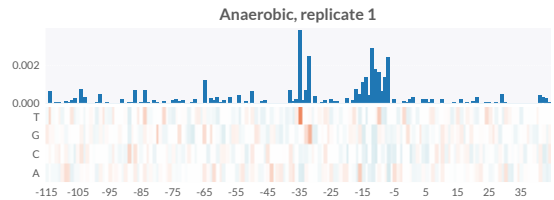

LB + 0.75M NaCl, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

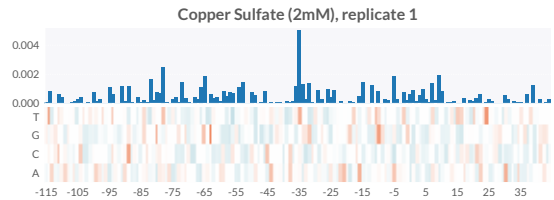

Serine Hydroxamate, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

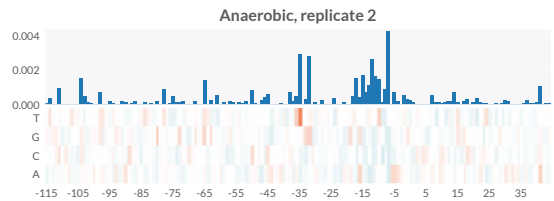

Low Phosphate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

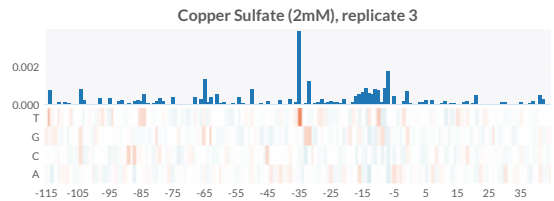

Serine Hydroxamate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

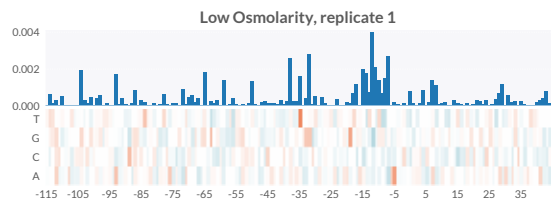

Low Phosphate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

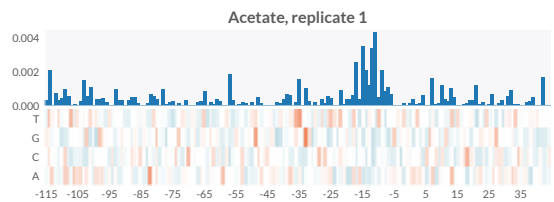

Anaerobic, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

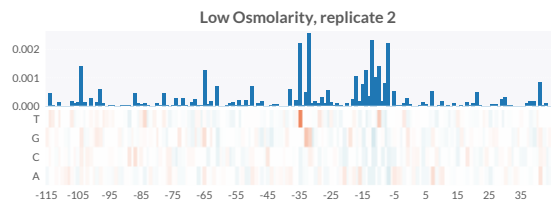

Copper Sulfate (2mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

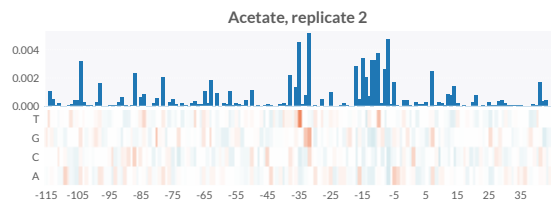

Anaerobic, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

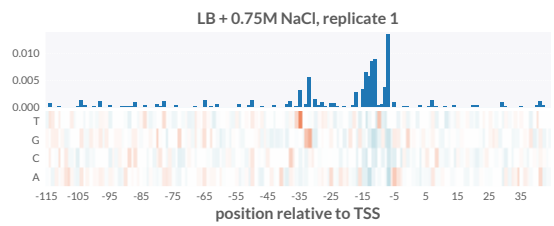

Copper Sulfate (2mM), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

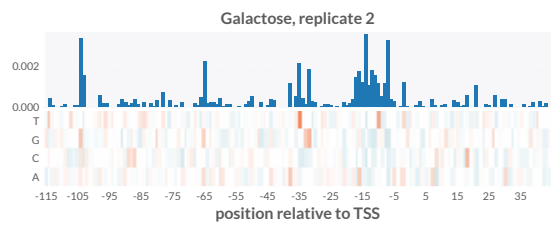

Low Osmolarity, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Low Osmolarity, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

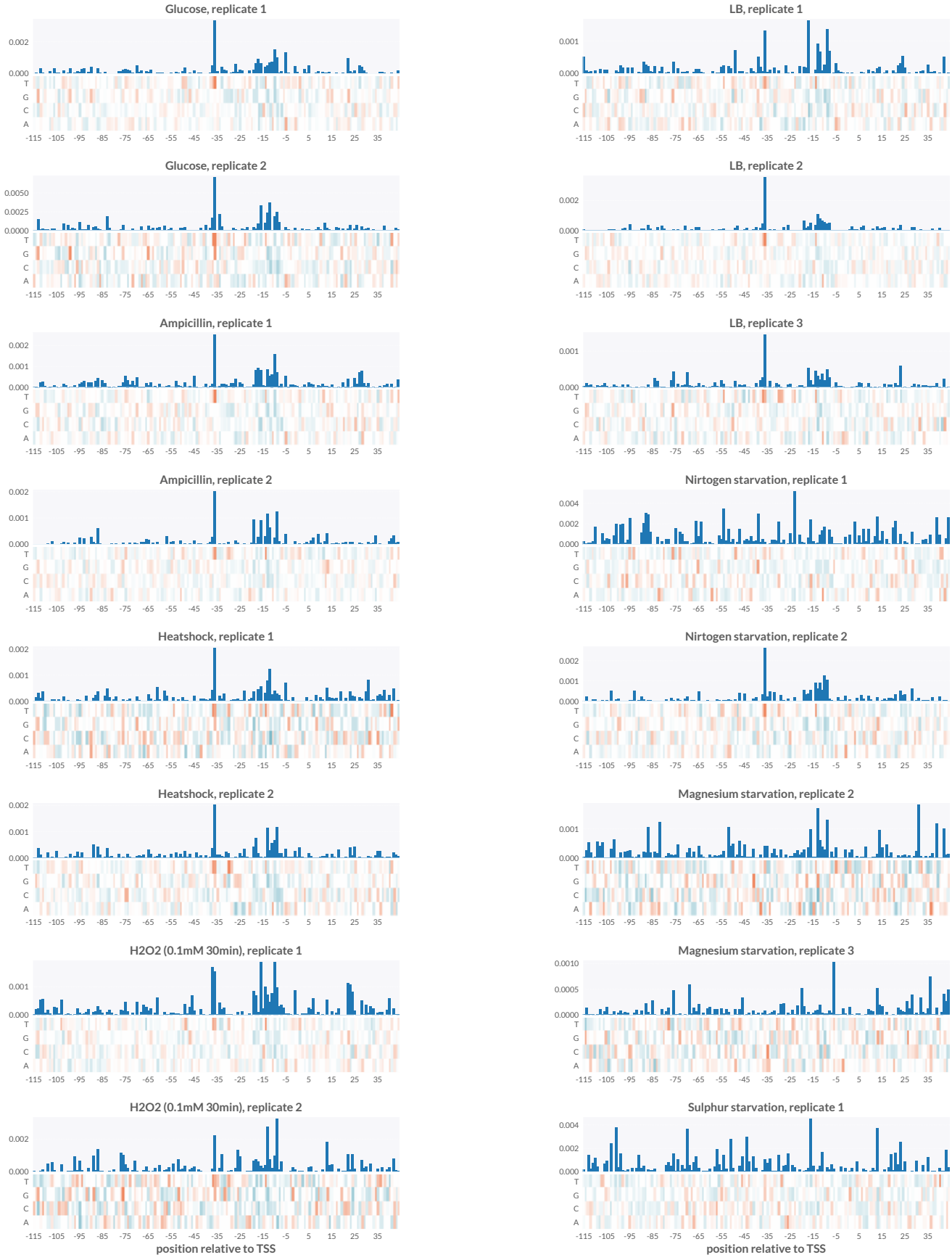

LB + 0.75M NaCl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Galactose, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

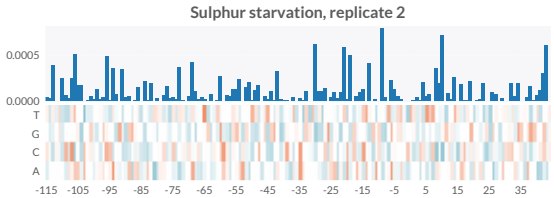
kbpp4

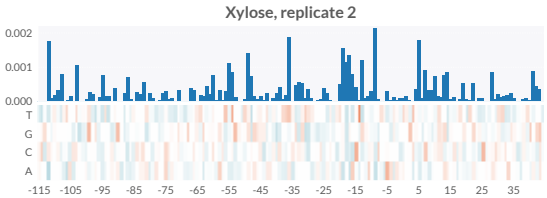

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

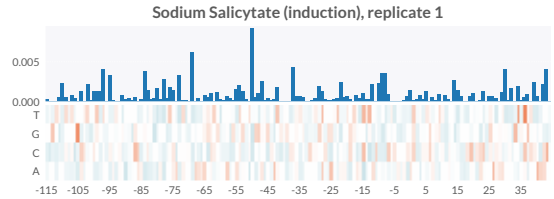
lacIp

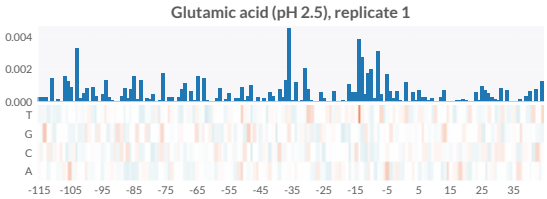

Glucose, replicate 1
Glucose, replicate 2
Ampicillin, replicate 1
Ampicillin, replicate 2
Heatshock, replicate 1
Heatshock, replicate 2
H2O2 (0.1mM 30min), replicate 1
H2O2 (0.1mM 30min), replicate 2
LB, replicate 1
LB, replicate 2
LB, replicate 3
Nirtogen starvation, replicate 1
Nirtogen starvation, replicate 2
Magnesium starvation, replicate 2
Magnesium starvation, replicate 3
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

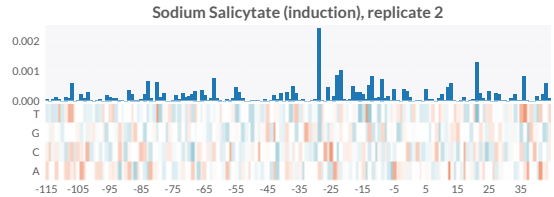
lacIp

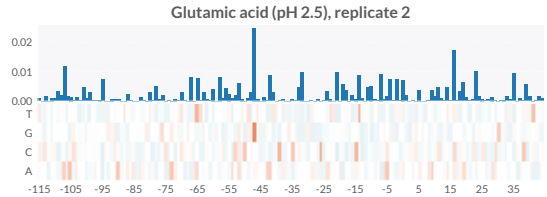

Sulphur starvation, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

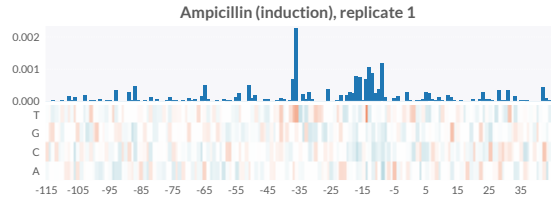

Xylose, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

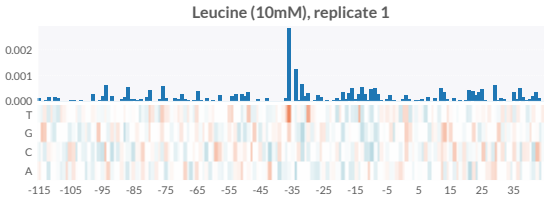

Sodium Salicytate (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

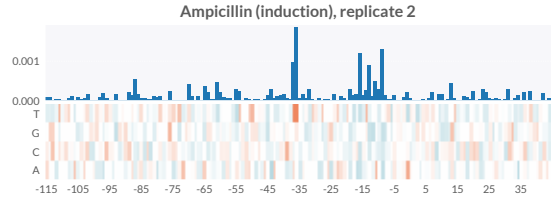

Glutamic acid (pH 2.5), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

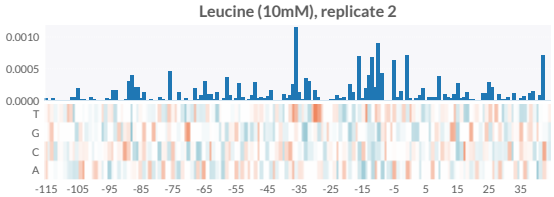

Sodium Salicytate (induction), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

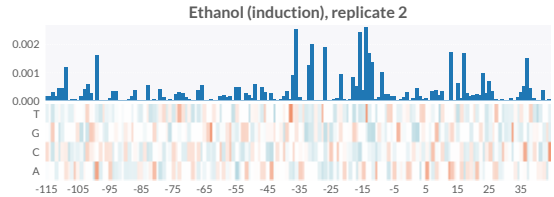

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

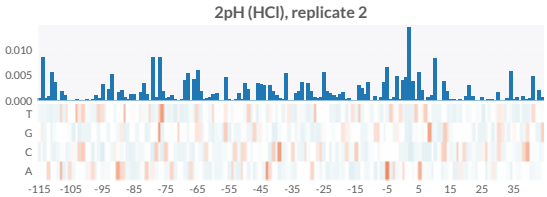

Ampicillin (induction), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

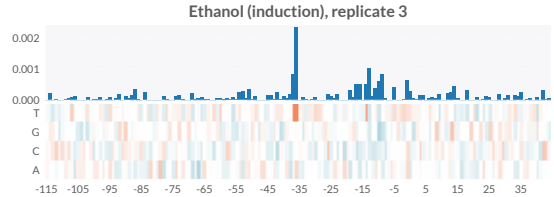

Leucine (10mM), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

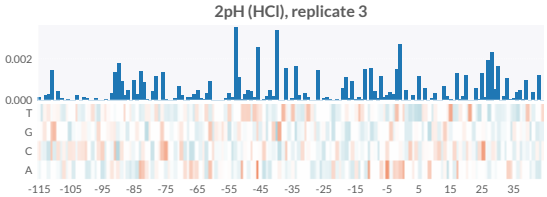

Ampicillin (induction), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

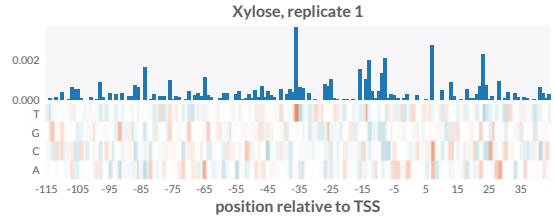

Leucine (10mM), replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

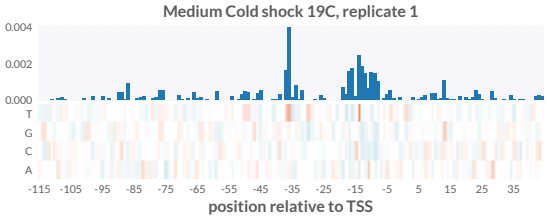

Ethanol (induction), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

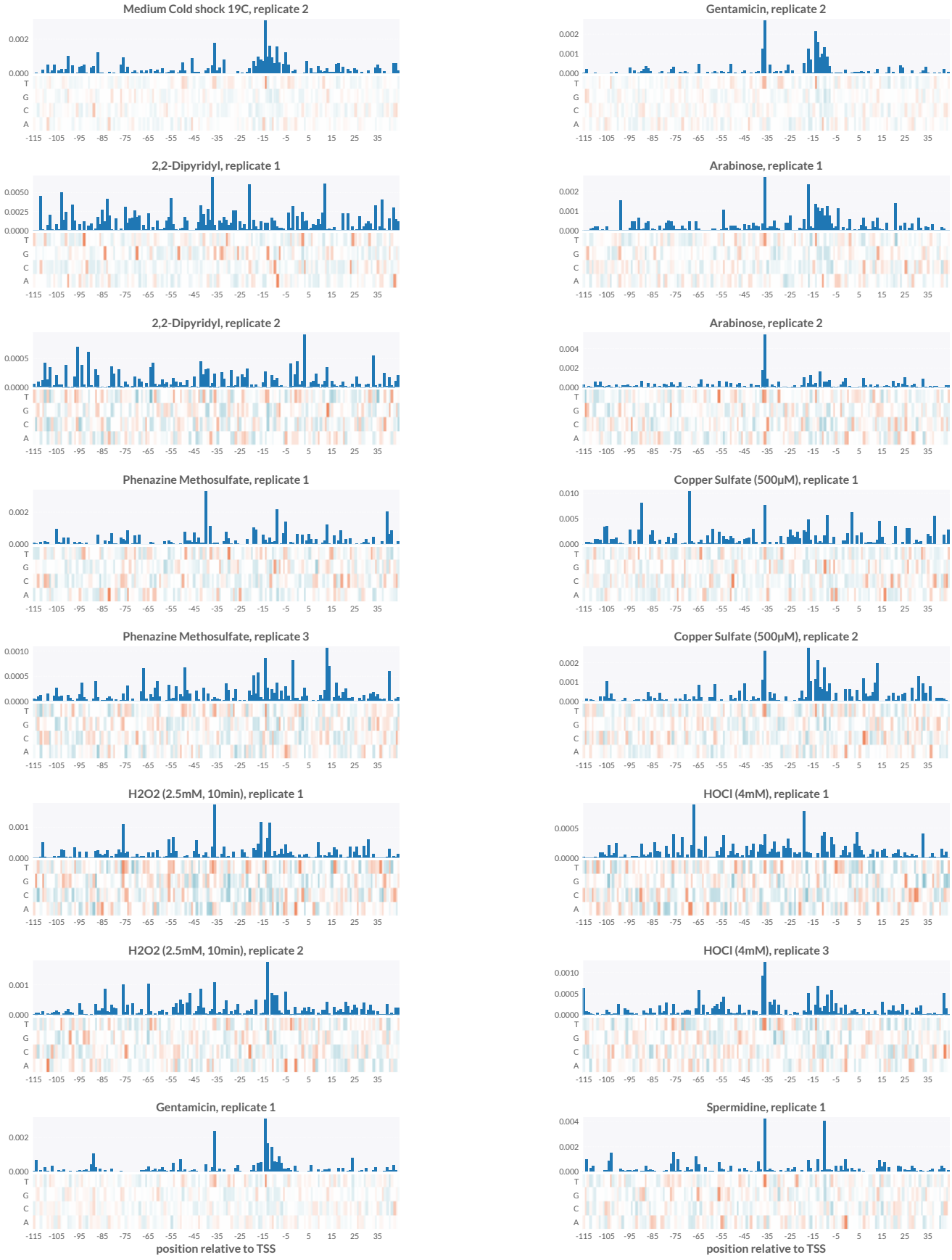

Ethanol (induction), replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

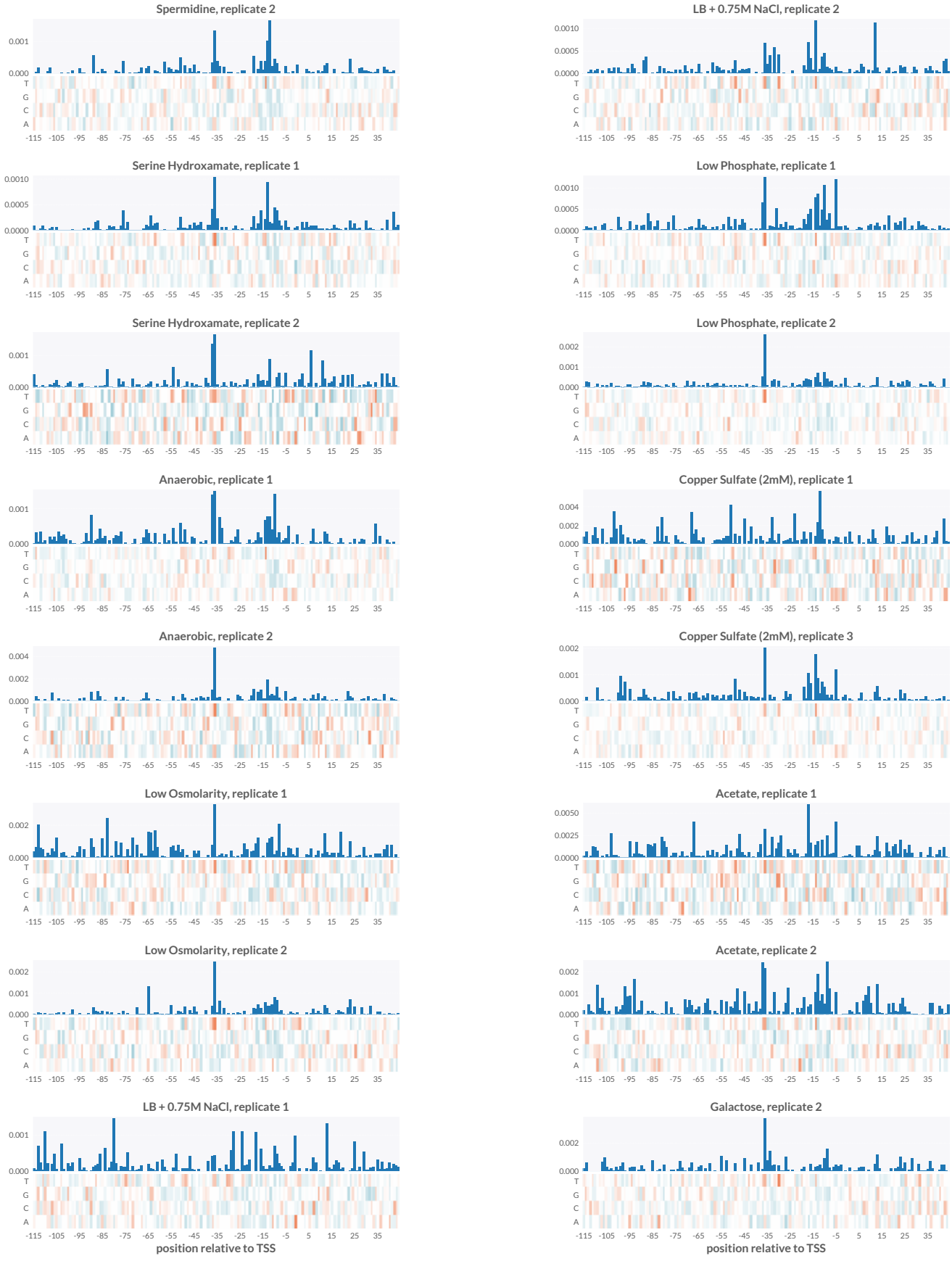

Xylose, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Medium Cold shock 19C, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

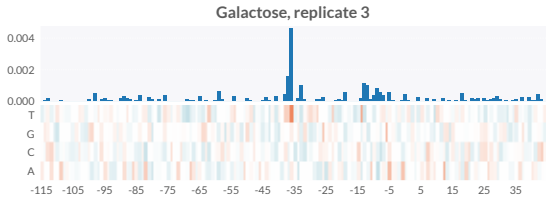
lacIp

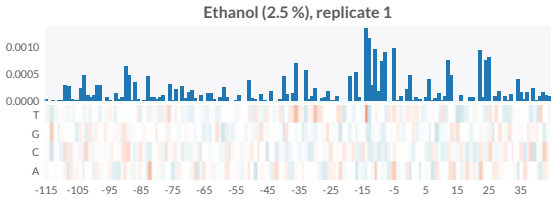

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

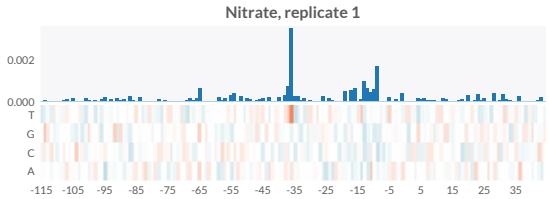
lacIp

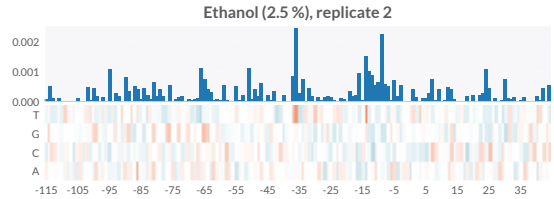

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

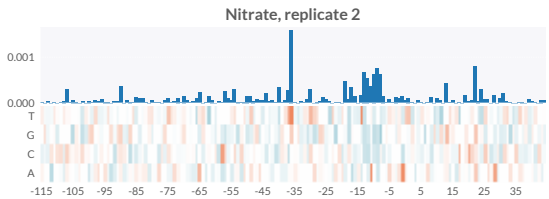
lacIp

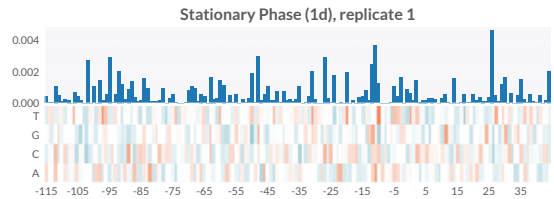

Galactose, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

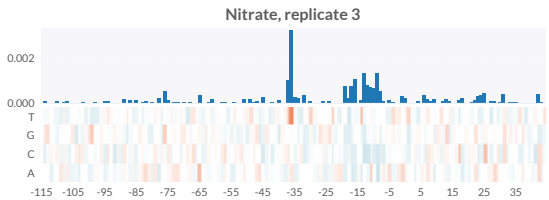

Ethanol (2.5 %), replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

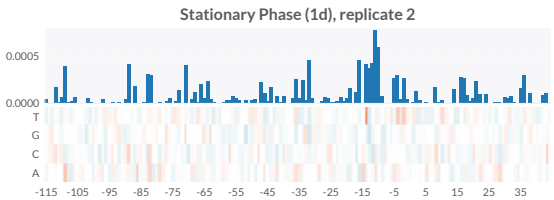

Nitrate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

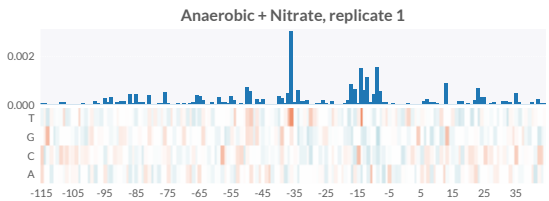

Ethanol (2.5 %), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

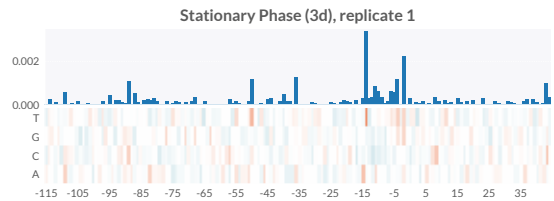

Nitrate, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

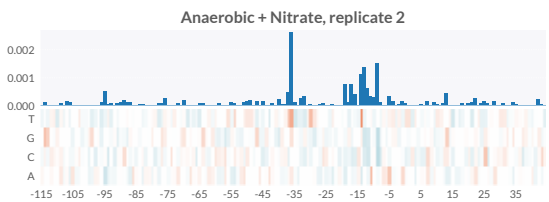

Stationary Phase (1d), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

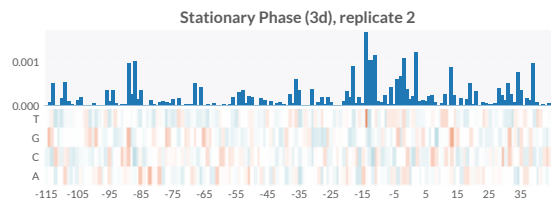

Nitrate, replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

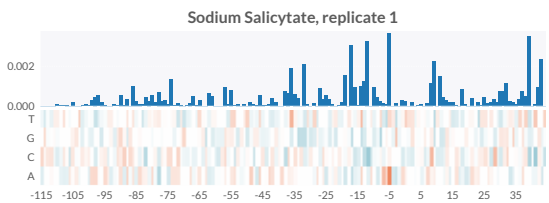

Stationary Phase (1d), replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

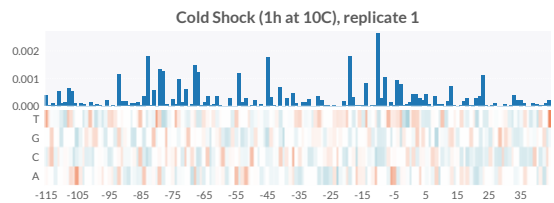

Anaerobic + Nitrate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

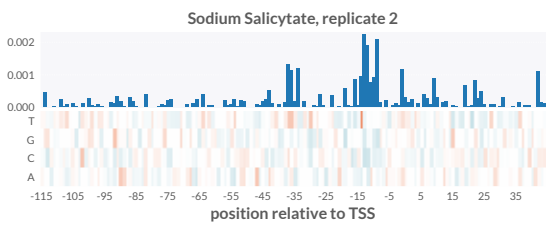

Stationary Phase (3d), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

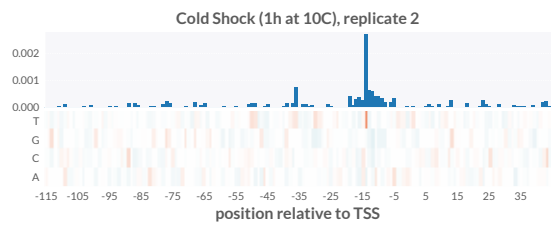

Anaerobic + Nitrate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

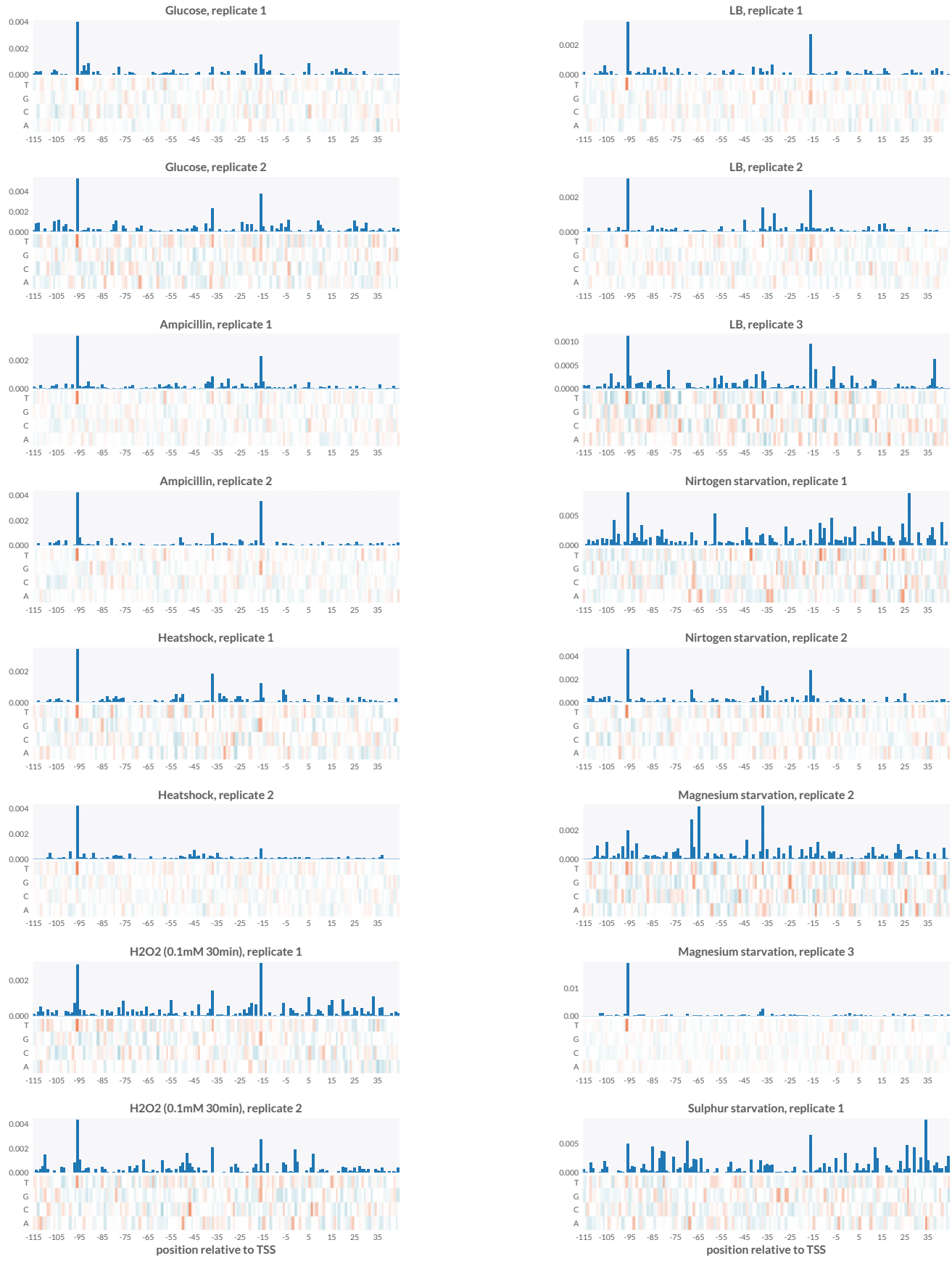

Sodium Salicytate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

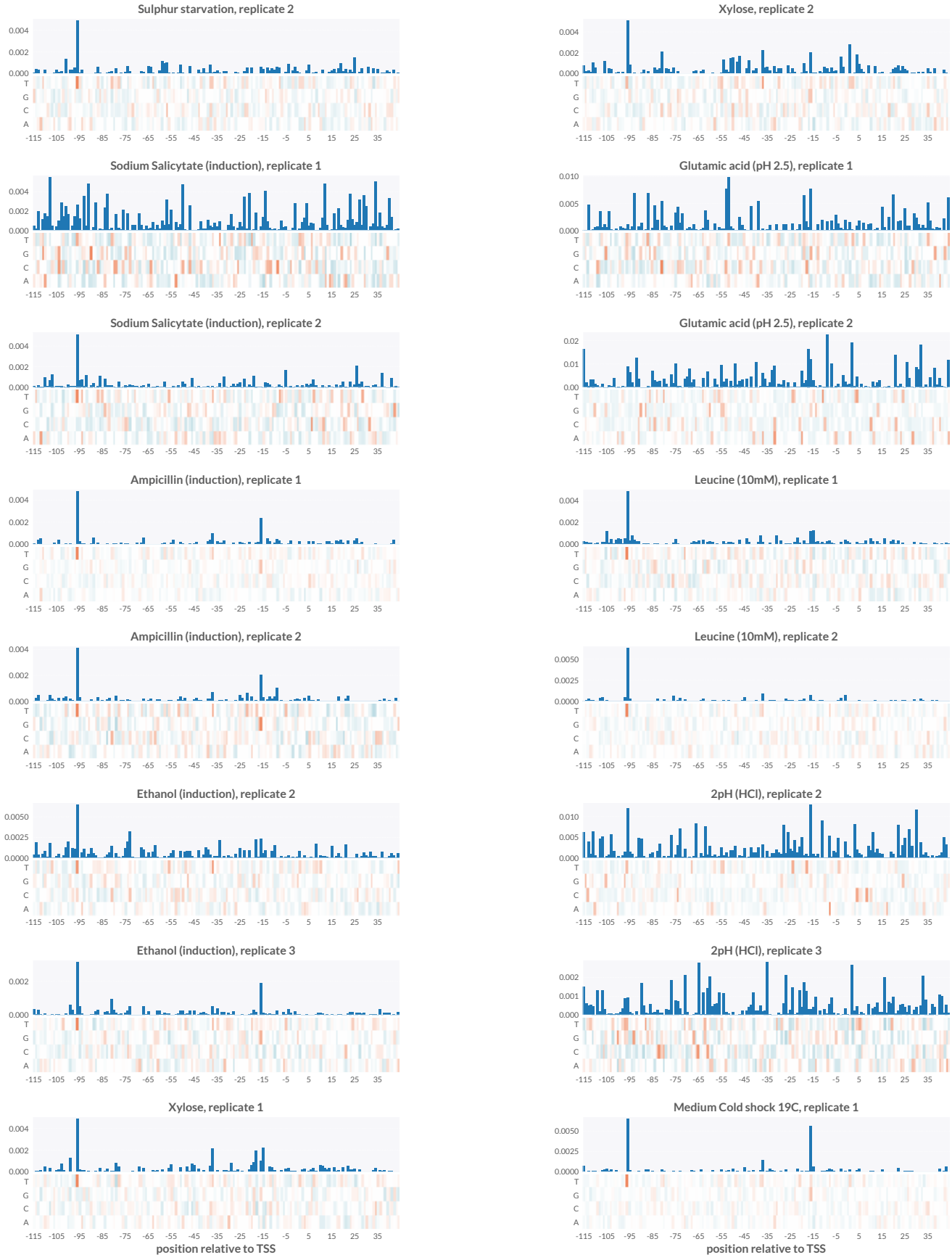

Sodium Salicytate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

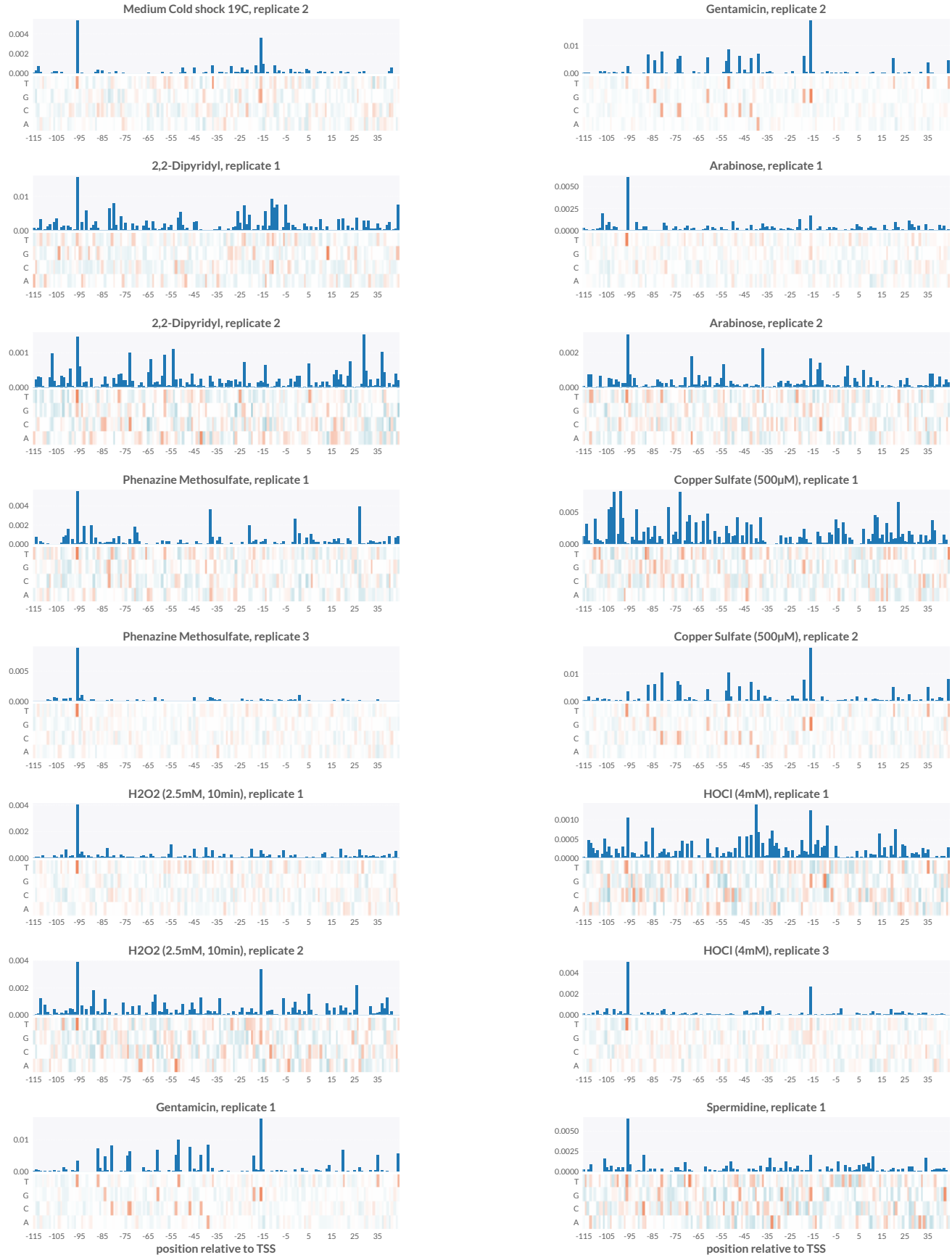
ldrDp


Glucose, replicate 1
Glucose, replicate 2
Ampicillin, replicate 1
Ampicillin, replicate 2
Heatshock, replicate 1
Heatshock, replicate 2
H2O2 (0.1mM 30min), replicate 1
H2O2 (0.1mM 30min), replicate 2
LB, replicate 1
LB, replicate 2
LB, replicate 3
Nirtogen starvation, replicate 1
Nirtogen starvation, replicate 2
Magnesium starvation, replicate 2
Magnesium starvation, replicate 3
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

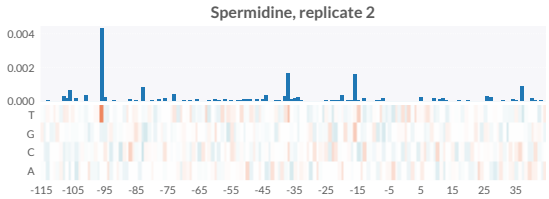
ldrDp

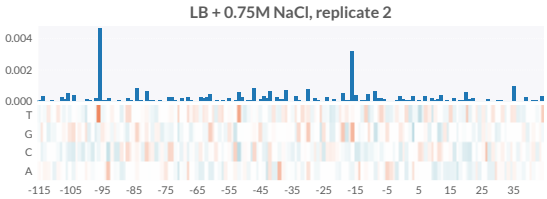

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

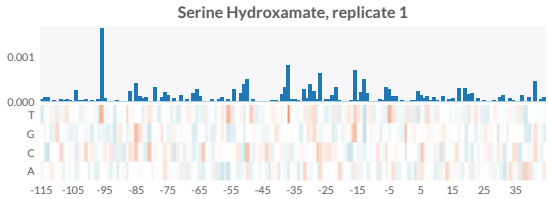
ldrDp

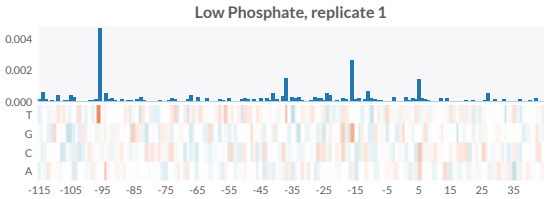

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

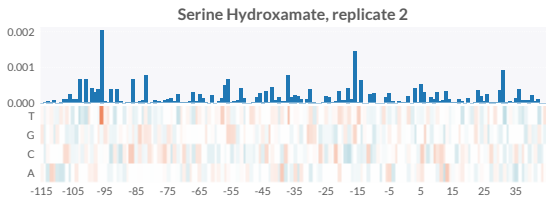
ldrDp

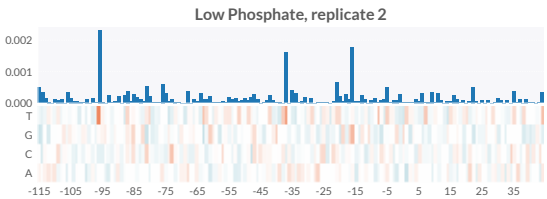

Spermidine, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

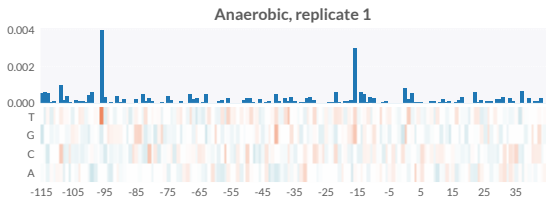

LB + 0.75M NaCl, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

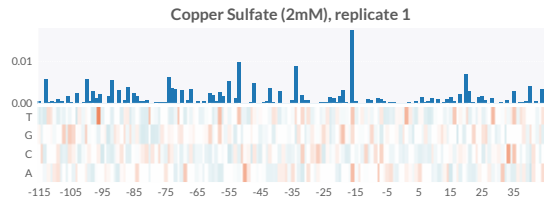

Serine Hydroxamate, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

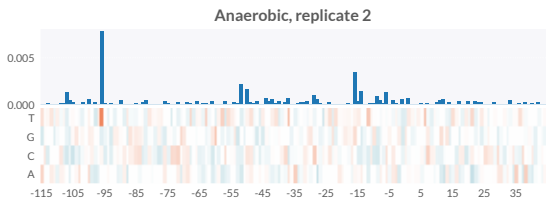

Low Phosphate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

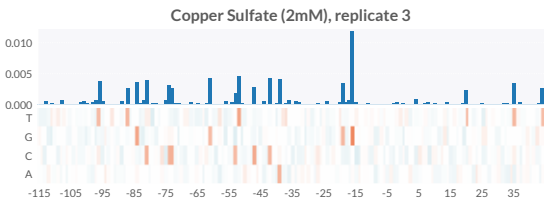

Serine Hydroxamate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

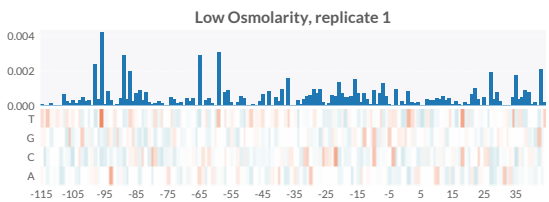

Low Phosphate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

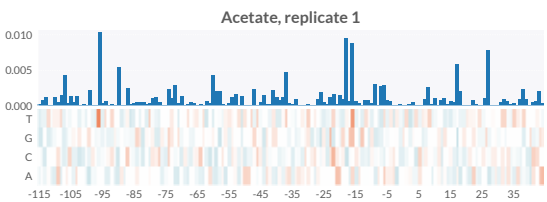

Anaerobic, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

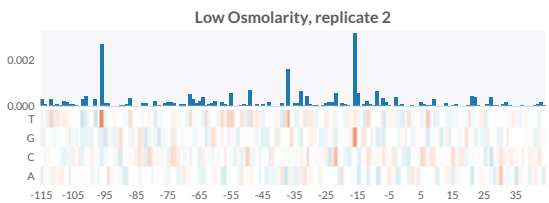

Copper Sulfate (2mM), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

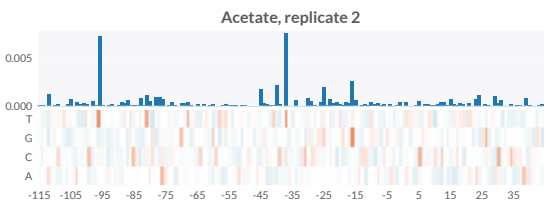

Anaerobic, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

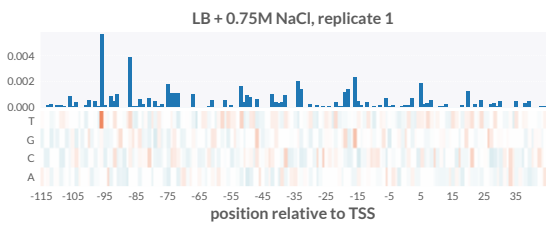

Copper Sulfate (2mM), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

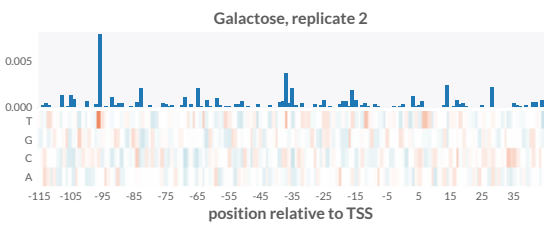

Low Osmolarity, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

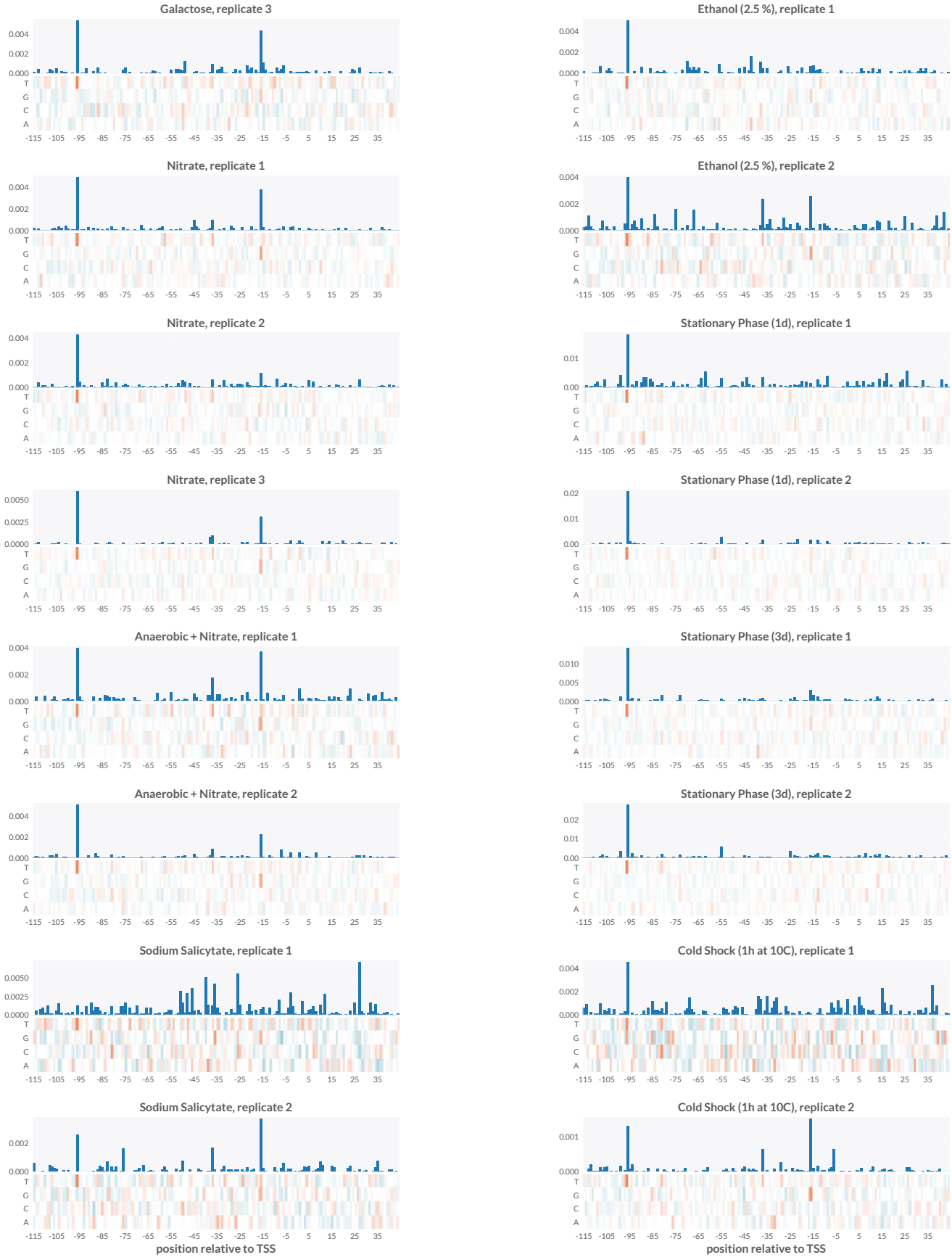

Low Osmolarity, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

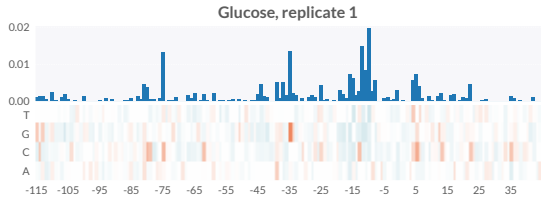

LB + 0.75M NaCl, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

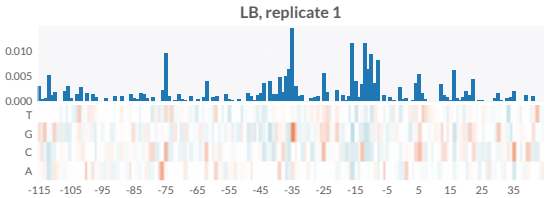

Galactose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

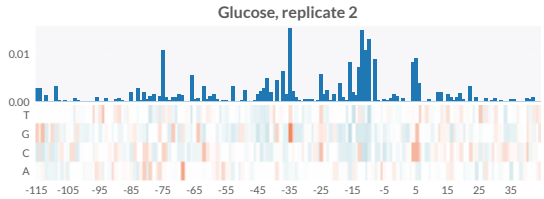
ldrDp

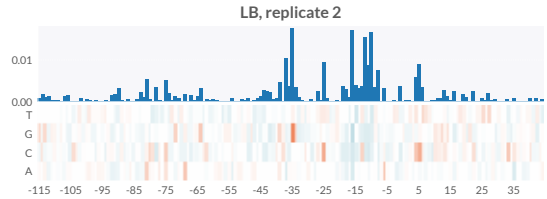

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

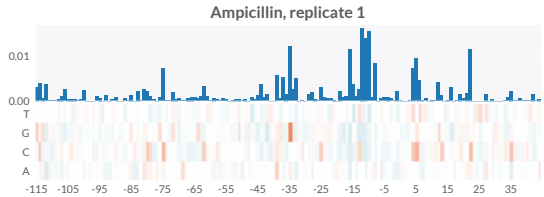
lpp

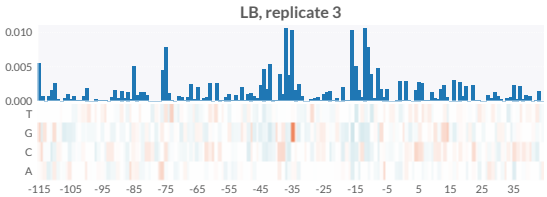

Glucose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

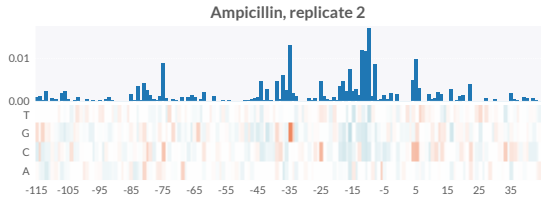

LB, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

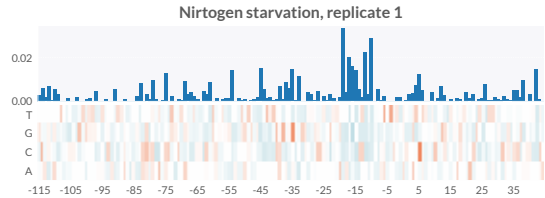

Glucose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

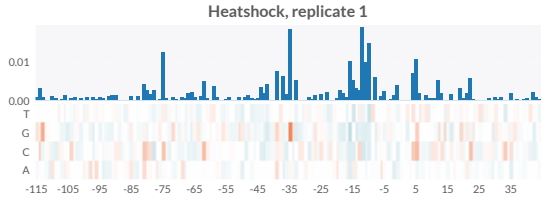

LB, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

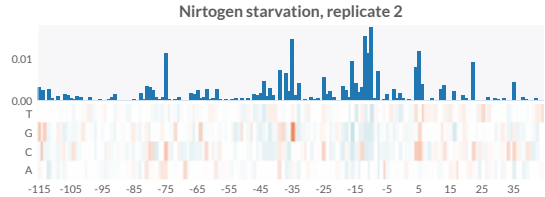

Ampicillin, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

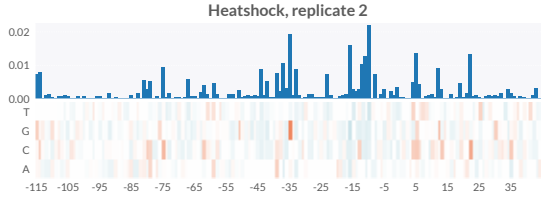

LB, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

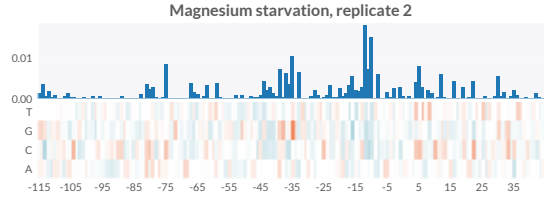

Ampicillin, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

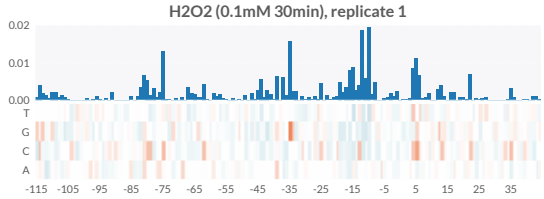

Nirtogen starvation, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

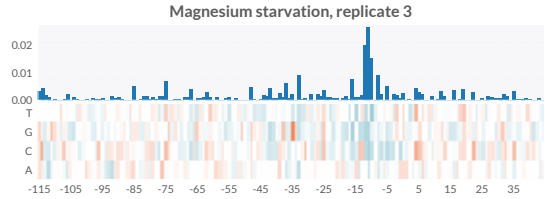

Heatshock, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

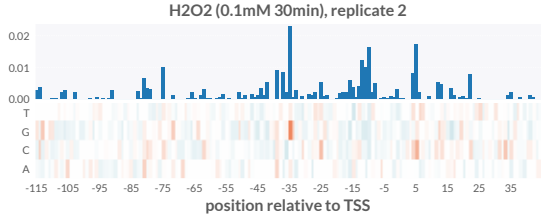

Nirtogen starvation, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

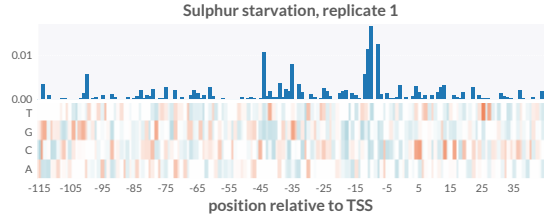

Heatshock, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

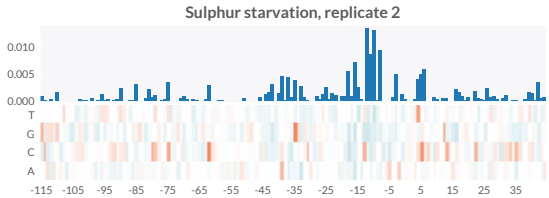

H2O2 (0.1mM 30min), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

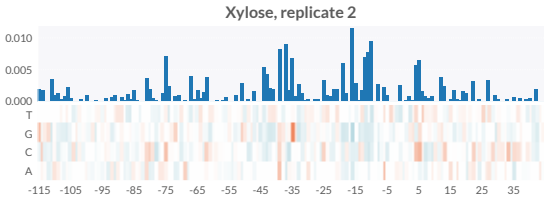

Magnesium starvation, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

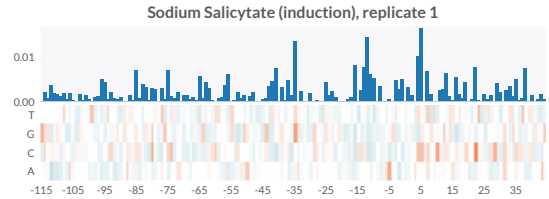

H2O2 (0.1mM 30min), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

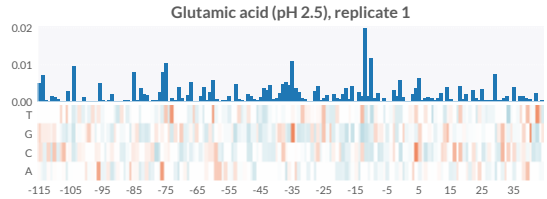

Sulphur starvation, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

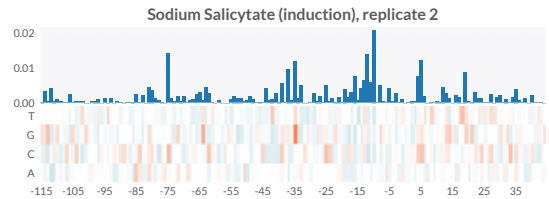
lpp

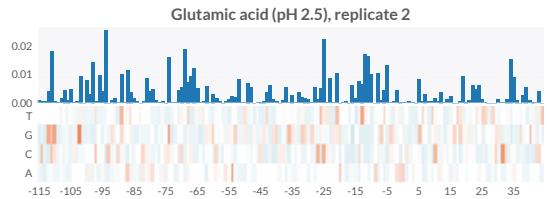

Sulphur starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

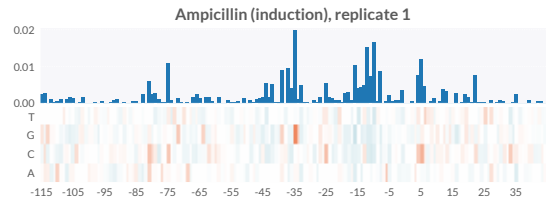

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

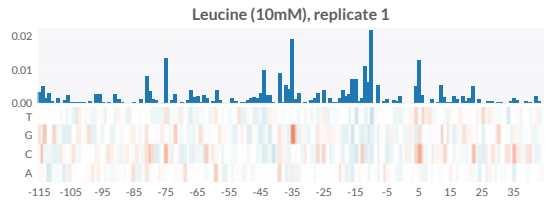

Sodium Salicytate (induction), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

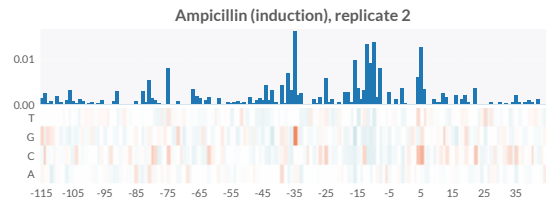

Glutamic acid (pH 2.5), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

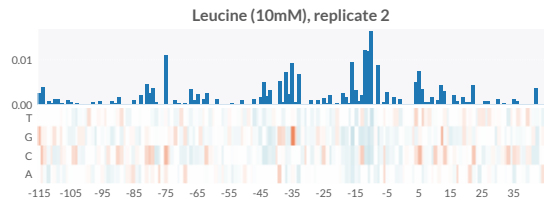

Sodium Salicytate (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

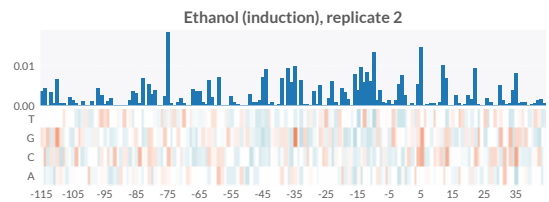

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

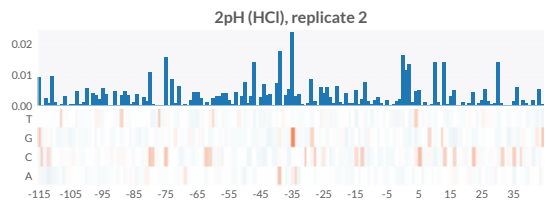

Ampicillin (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

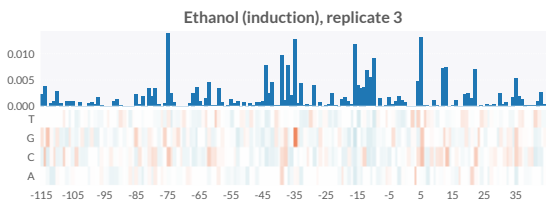

Leucine (10mM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

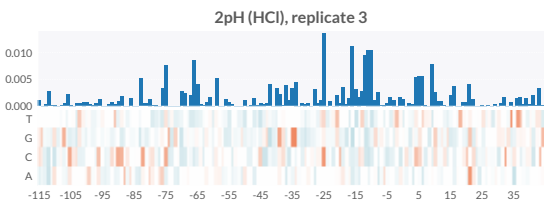

Ampicillin (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

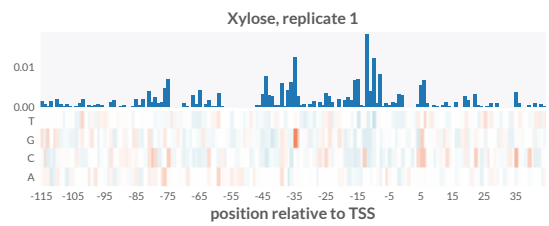

Leucine (10mM), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

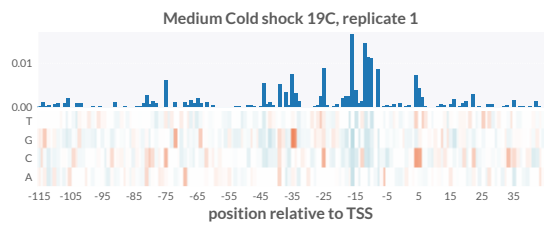

Ethanol (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

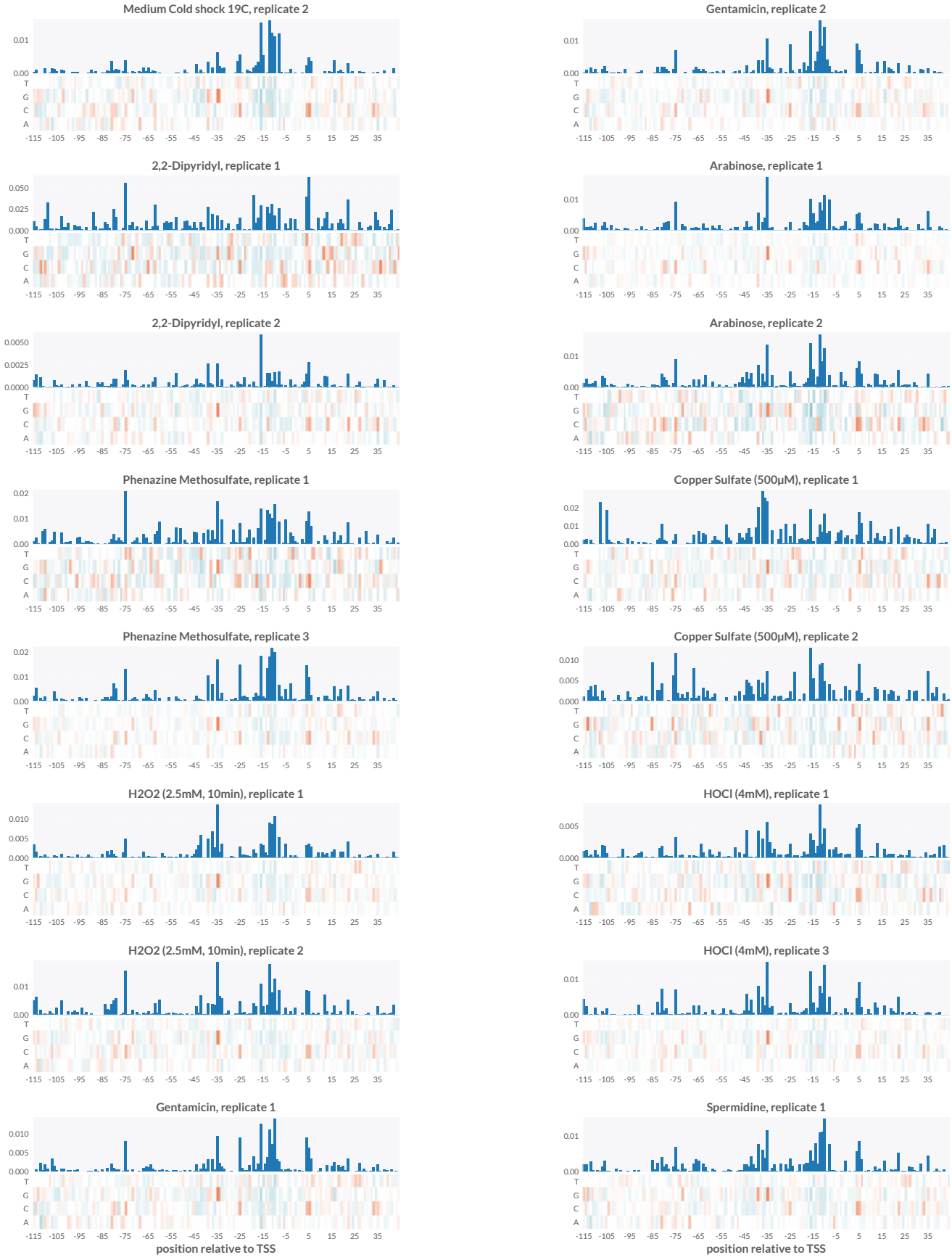

Ethanol (induction), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Xylose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Medium Cold shock 19C, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

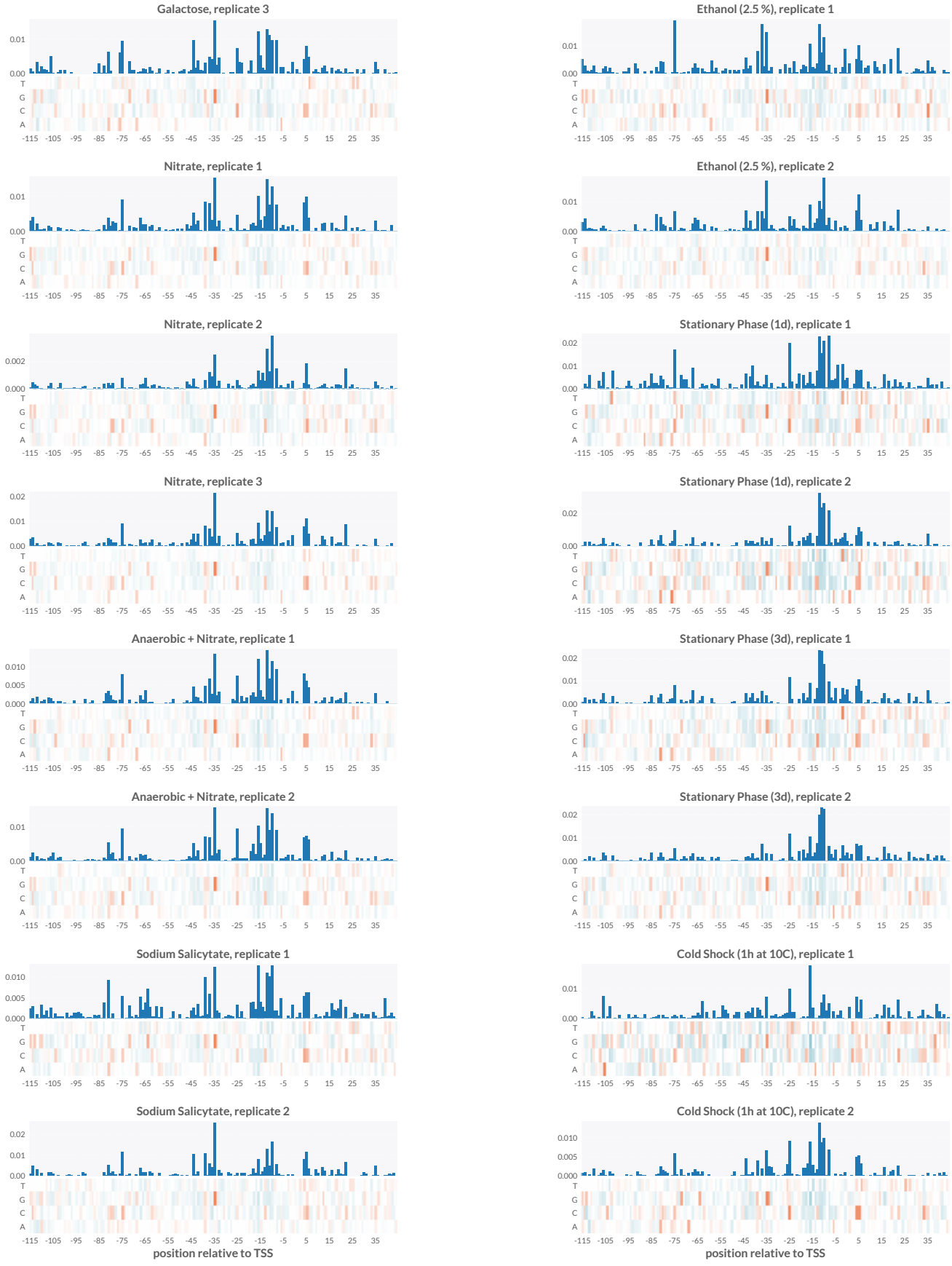
lpp


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

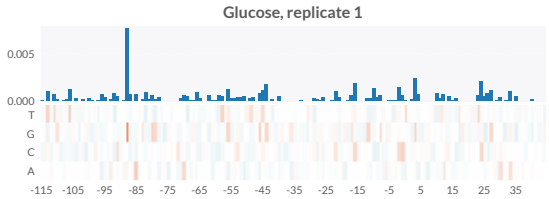
lpp

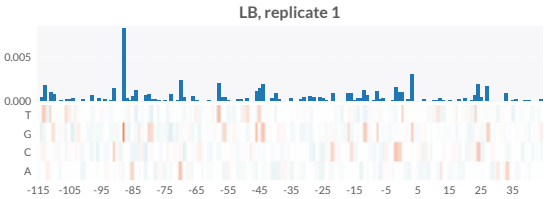

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

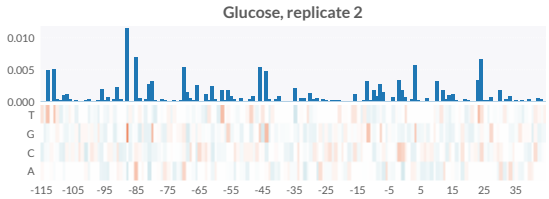
lpp

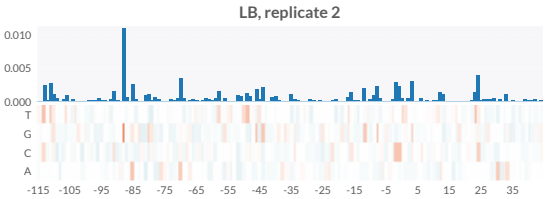

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

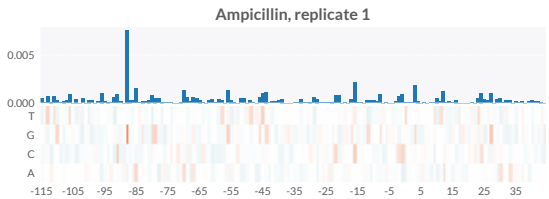
lppp2

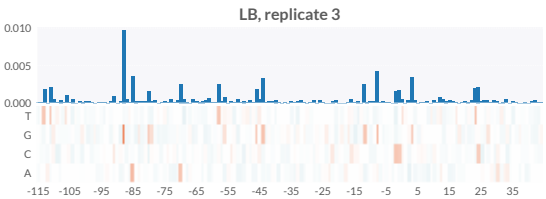

Glucose, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

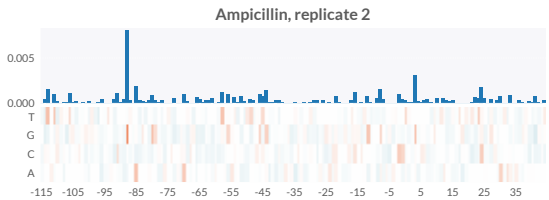

LB, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

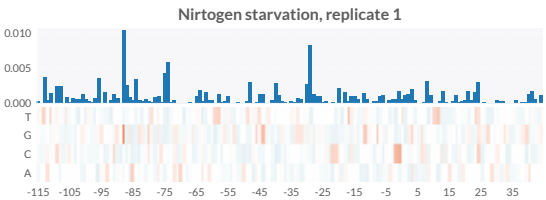

Glucose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

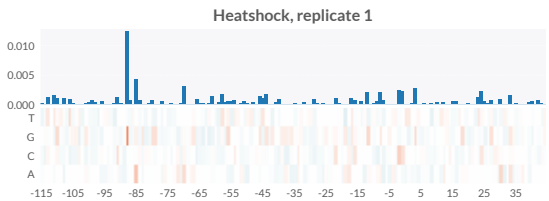

LB, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

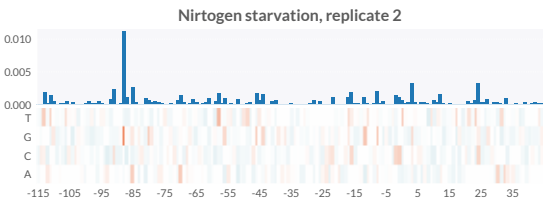

Ampicillin, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

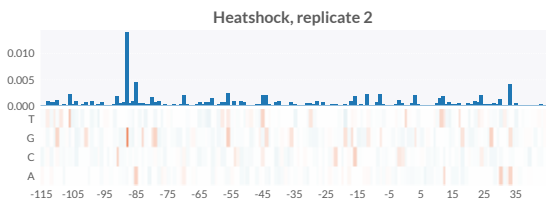

LB, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

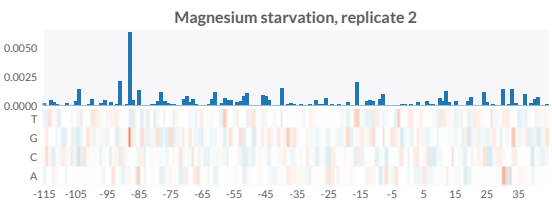

Ampicillin, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

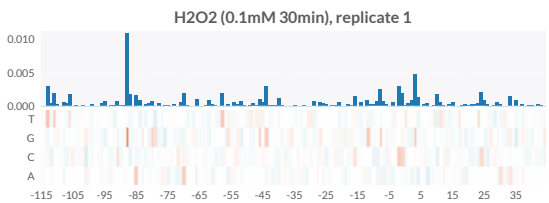

Nirtogen starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

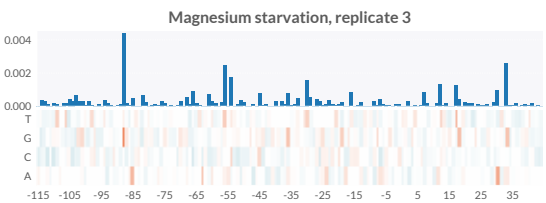

Heatshock, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

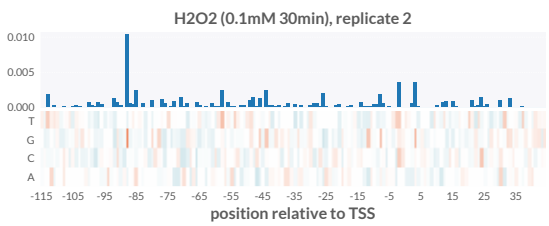

Nirtogen starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

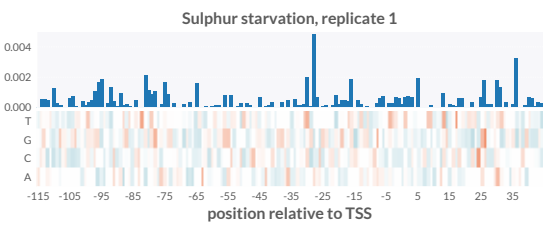

Heatshock, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

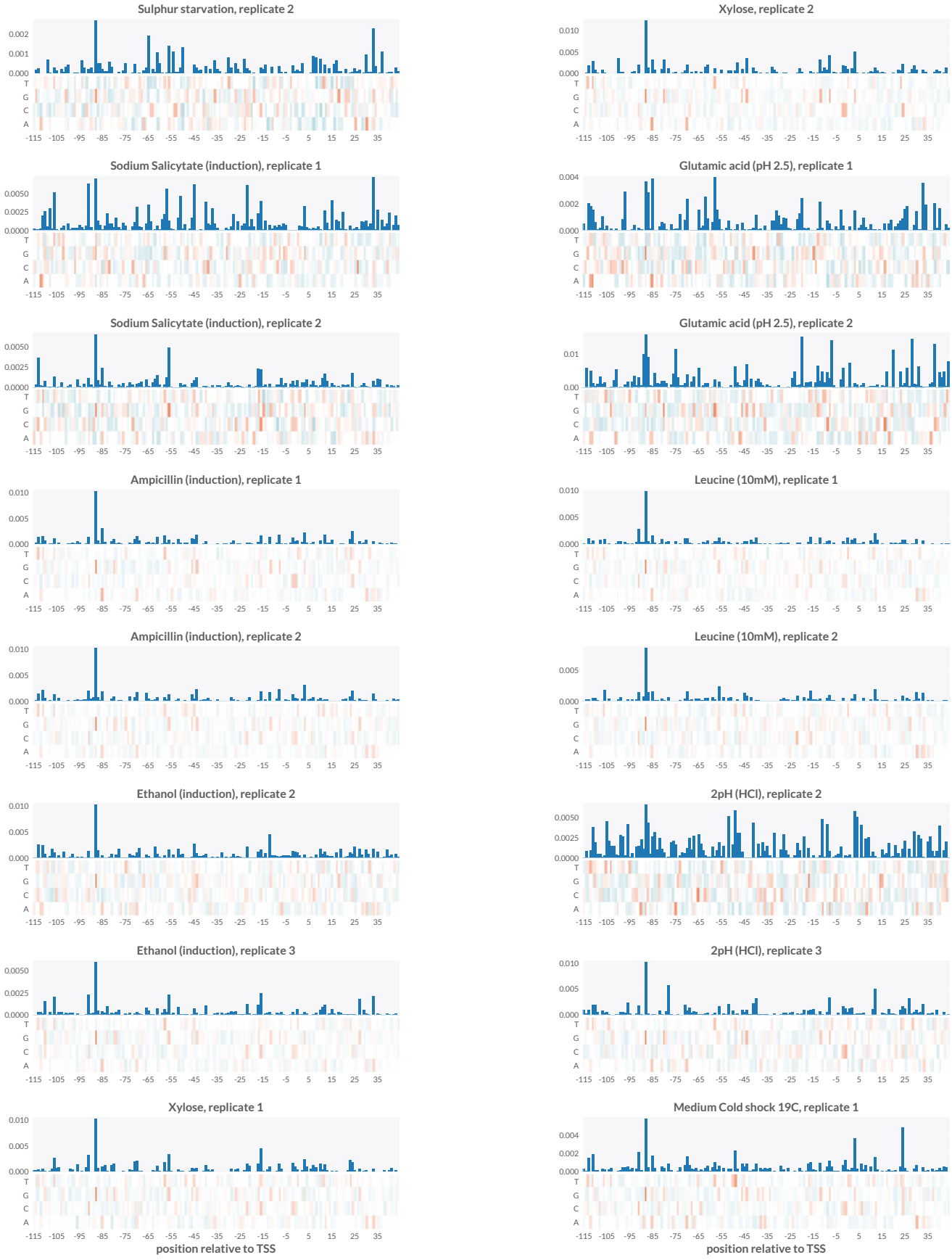

H2O2 (0.1mM 30min), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

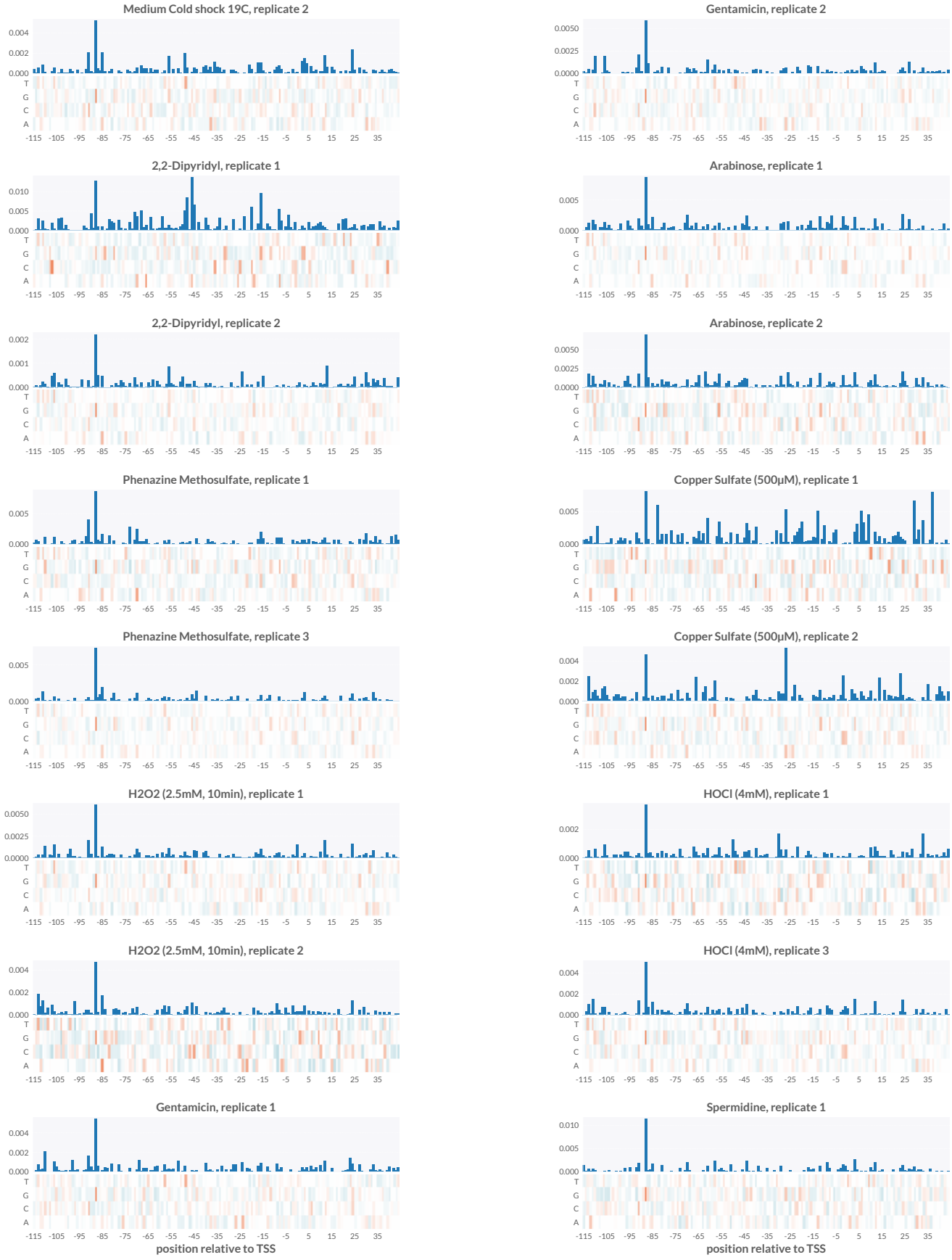

H2O2 (0.1mM 30min), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Sulphur starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

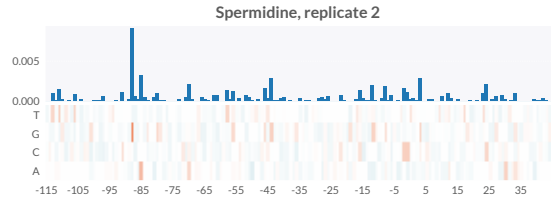
lppp2

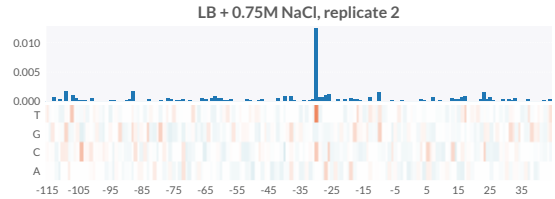

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

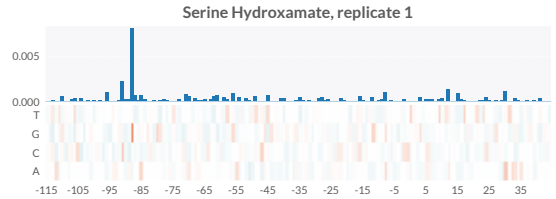
lppp2

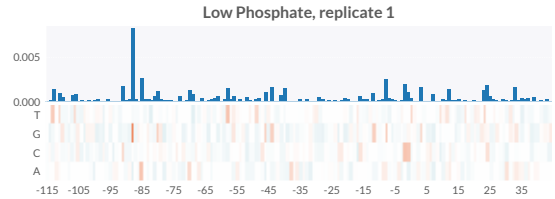

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

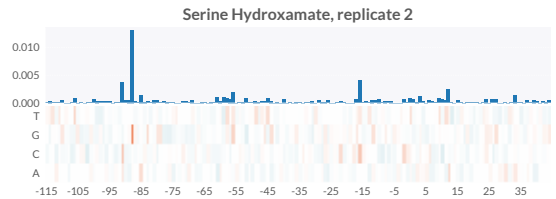
lppp2

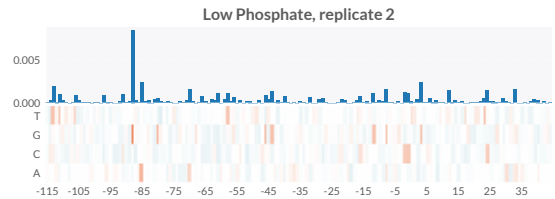

Spermidine, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

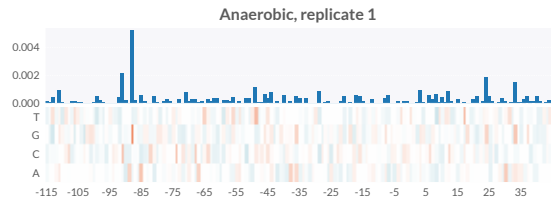

LB + 0.75M NaCl, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

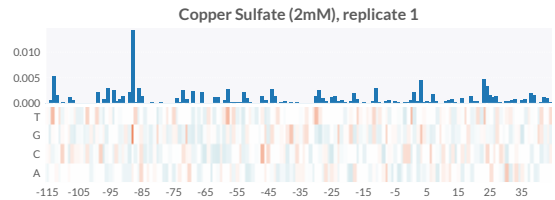

Serine Hydroxamate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

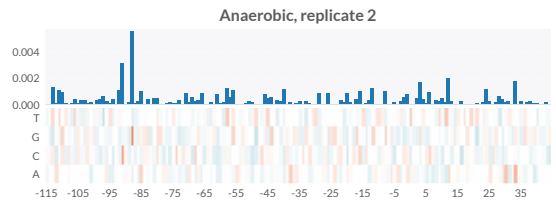

Low Phosphate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

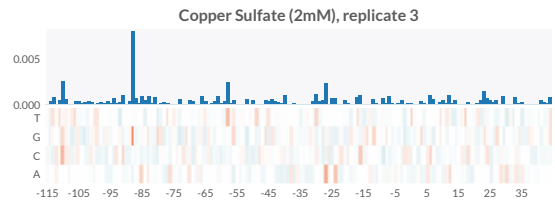

Serine Hydroxamate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

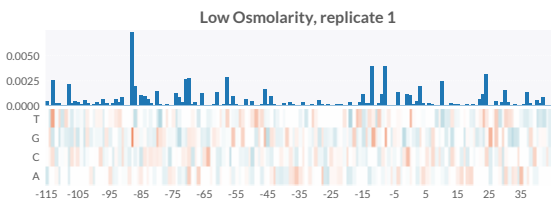

Low Phosphate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

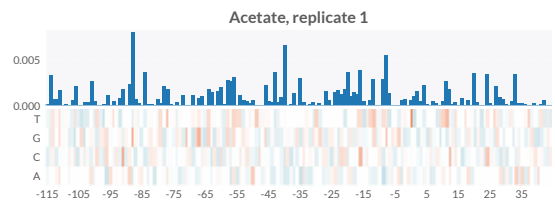

Anaerobic, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

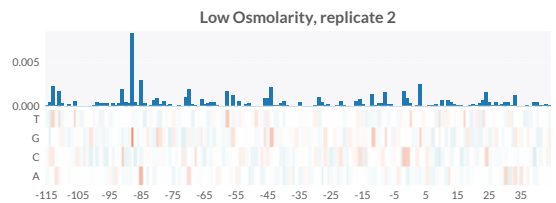

Copper Sulfate (2mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

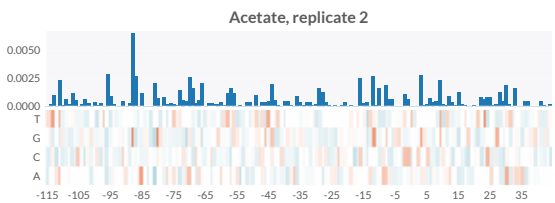

Anaerobic, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

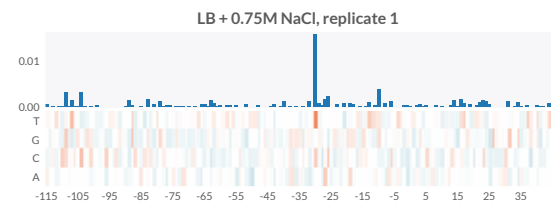

Copper Sulfate (2mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

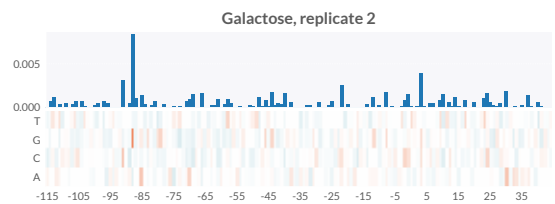

Low Osmolarity, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

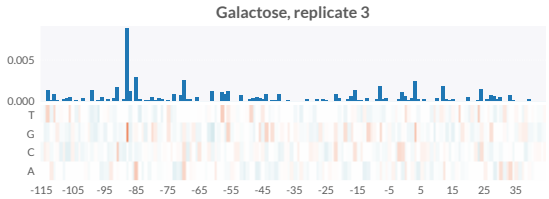

Low Osmolarity, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

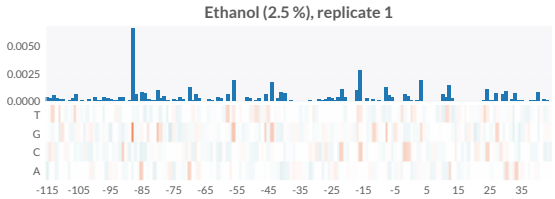

Acetate, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

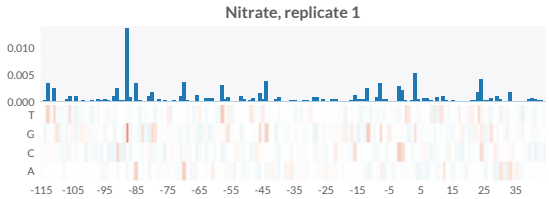

LB + 0.75M NaCl, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

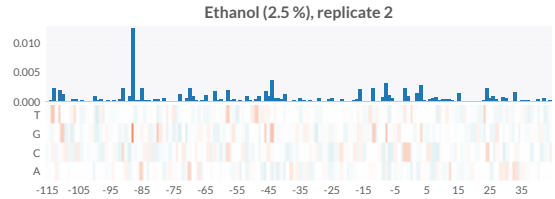

Galactose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

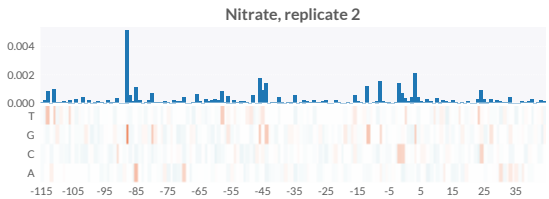
lppp2

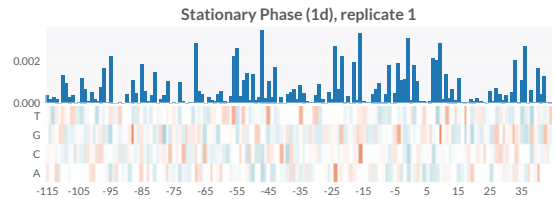

Galactose, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

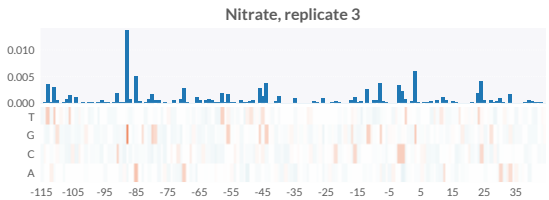

Ethanol (2.5 %), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

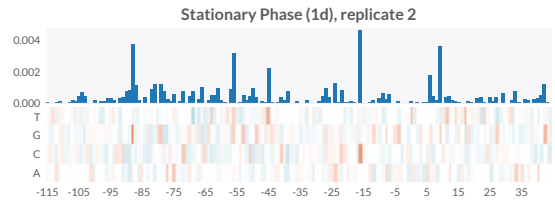

Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

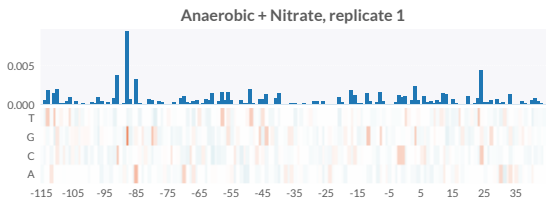

Ethanol (2.5 %), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

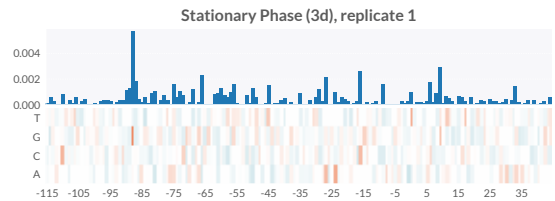

Nitrate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

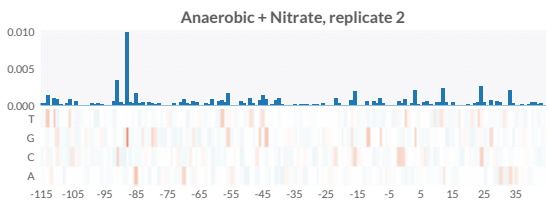

Stationary Phase (1d), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

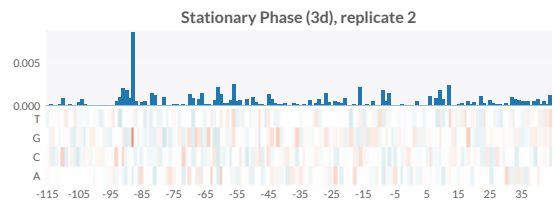

Nitrate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

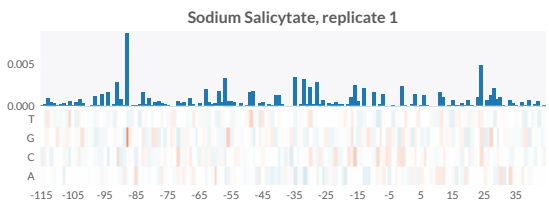

Stationary Phase (1d), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

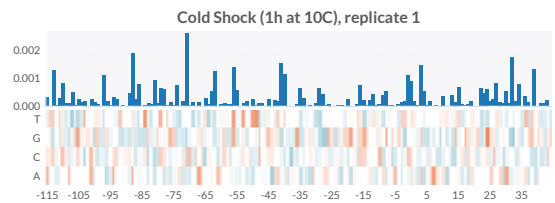

Anaerobic + Nitrate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

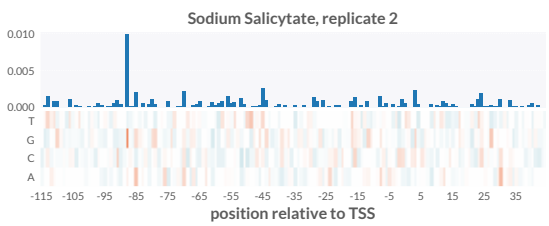

Stationary Phase (3d), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

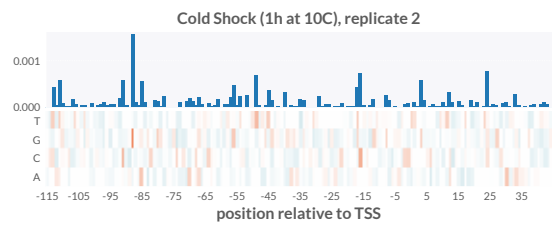

Anaerobic + Nitrate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

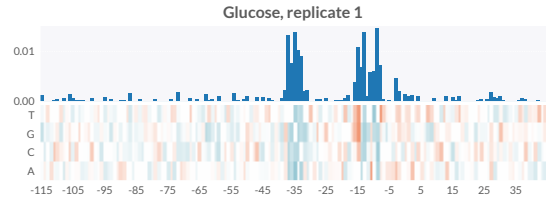

Sodium Salicytate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

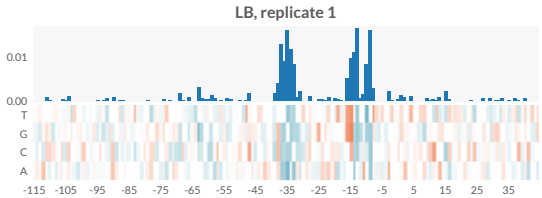

Cold Shock (1h at 10C), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

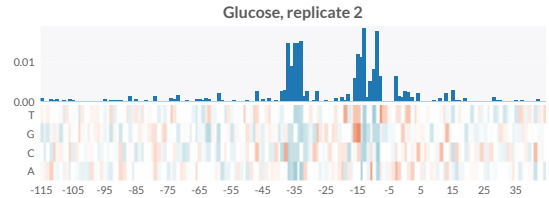

Sodium Salicytate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

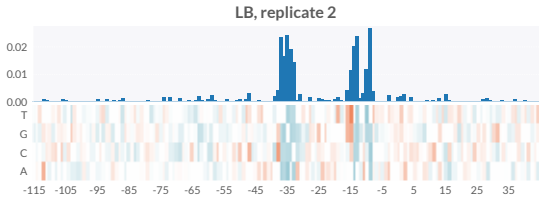

Cold Shock (1h at 10C), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

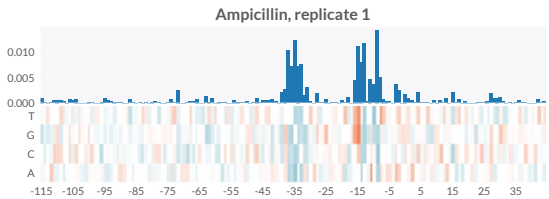
marRp

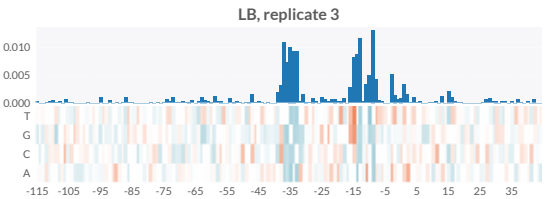

Glucose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

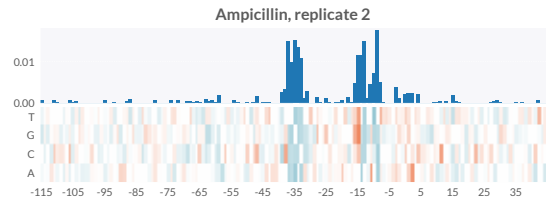

LB, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

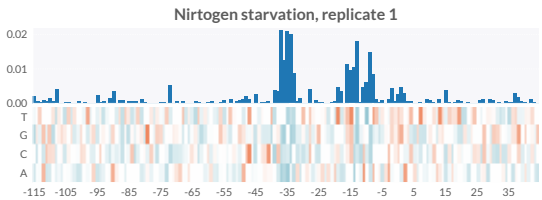

Glucose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

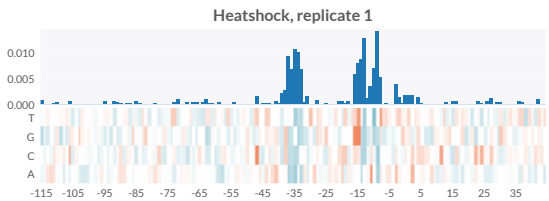

LB, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

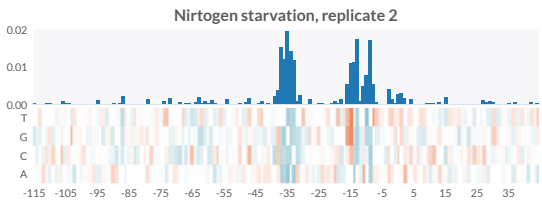

Ampicillin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

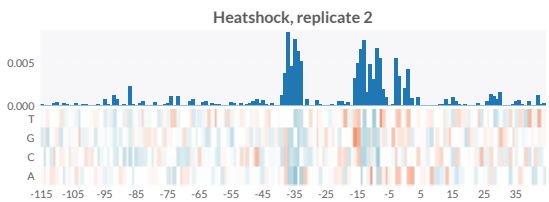

LB, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

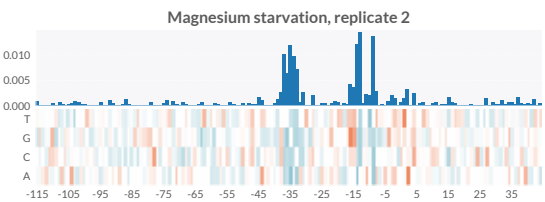

Ampicillin, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

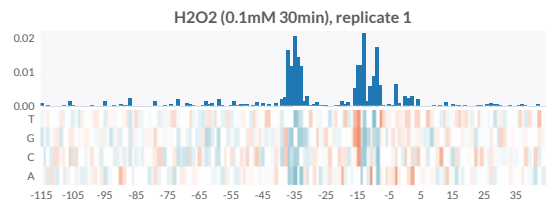

Nirtogen starvation, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

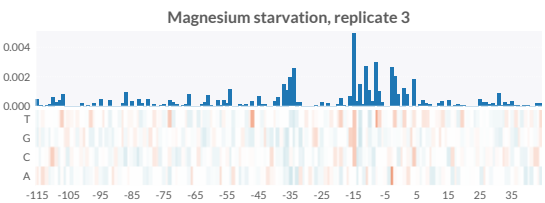

Heatshock, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

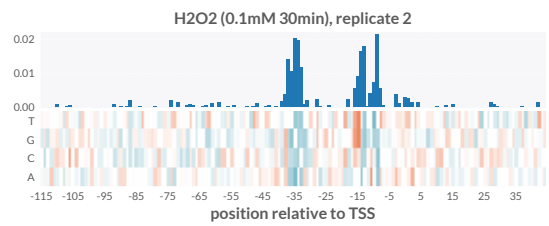

Nirtogen starvation, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

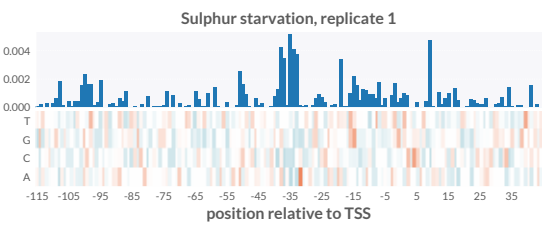

Heatshock, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

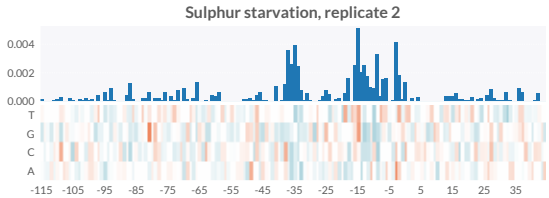

H2O2 (0.1mM 30min), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

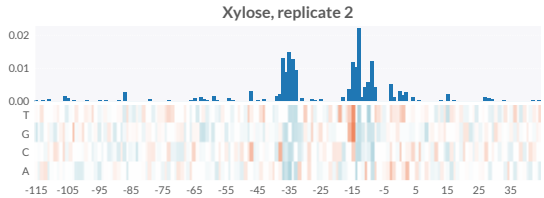

Magnesium starvation, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

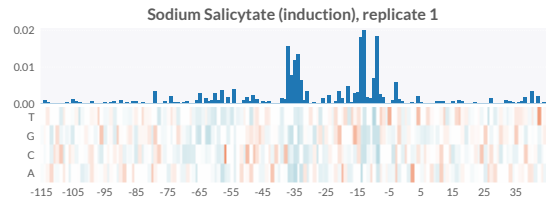

H2O2 (0.1mM 30min), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

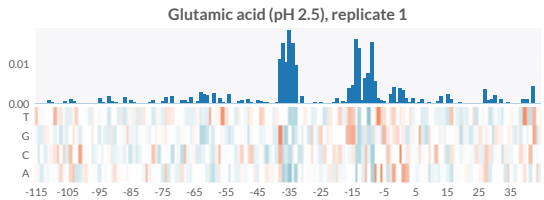

Sulphur starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

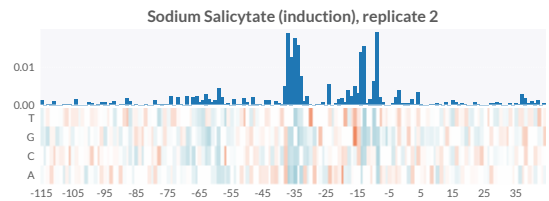
marRp

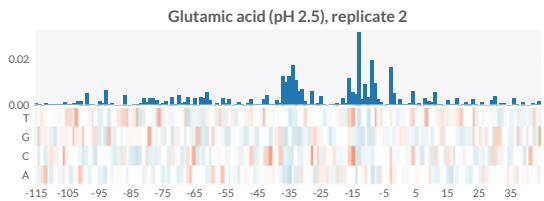

Sulphur starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

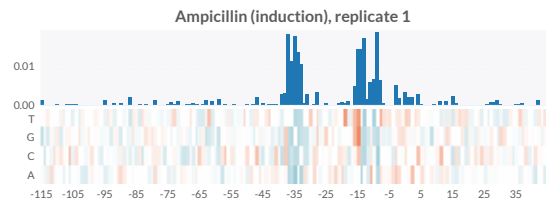

Xylose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

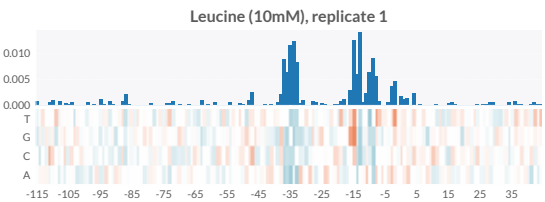

Sodium Salicytate (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

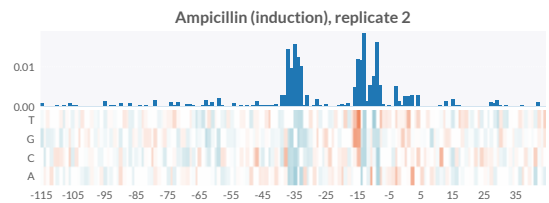

Glutamic acid (pH 2.5), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

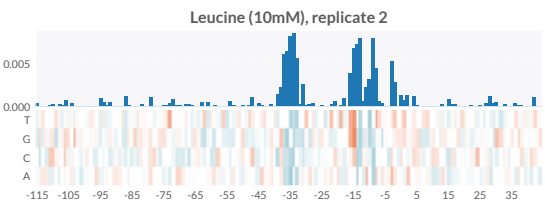

Sodium Salicytate (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

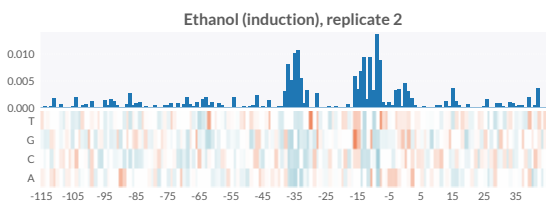

Glutamic acid (pH 2.5), replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

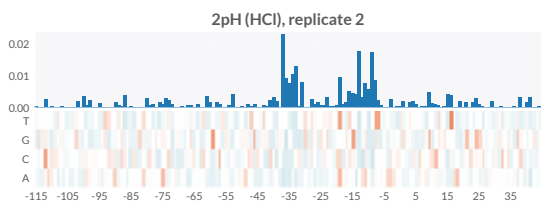

Ampicillin (induction), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

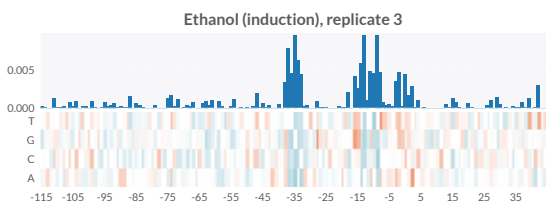

Leucine (10mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

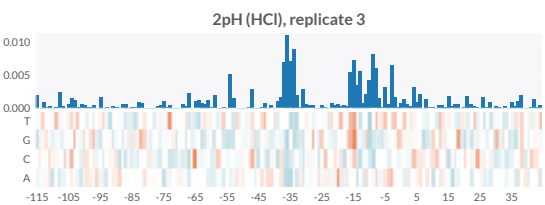

Ampicillin (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

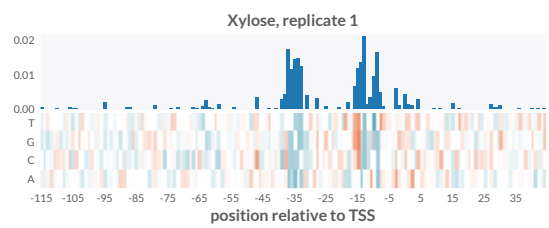

Leucine (10mM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

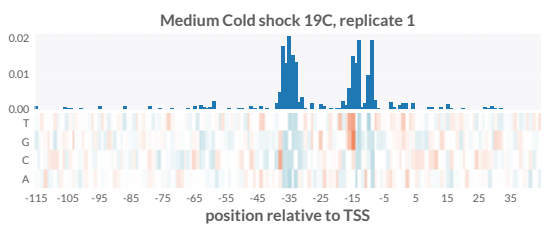

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

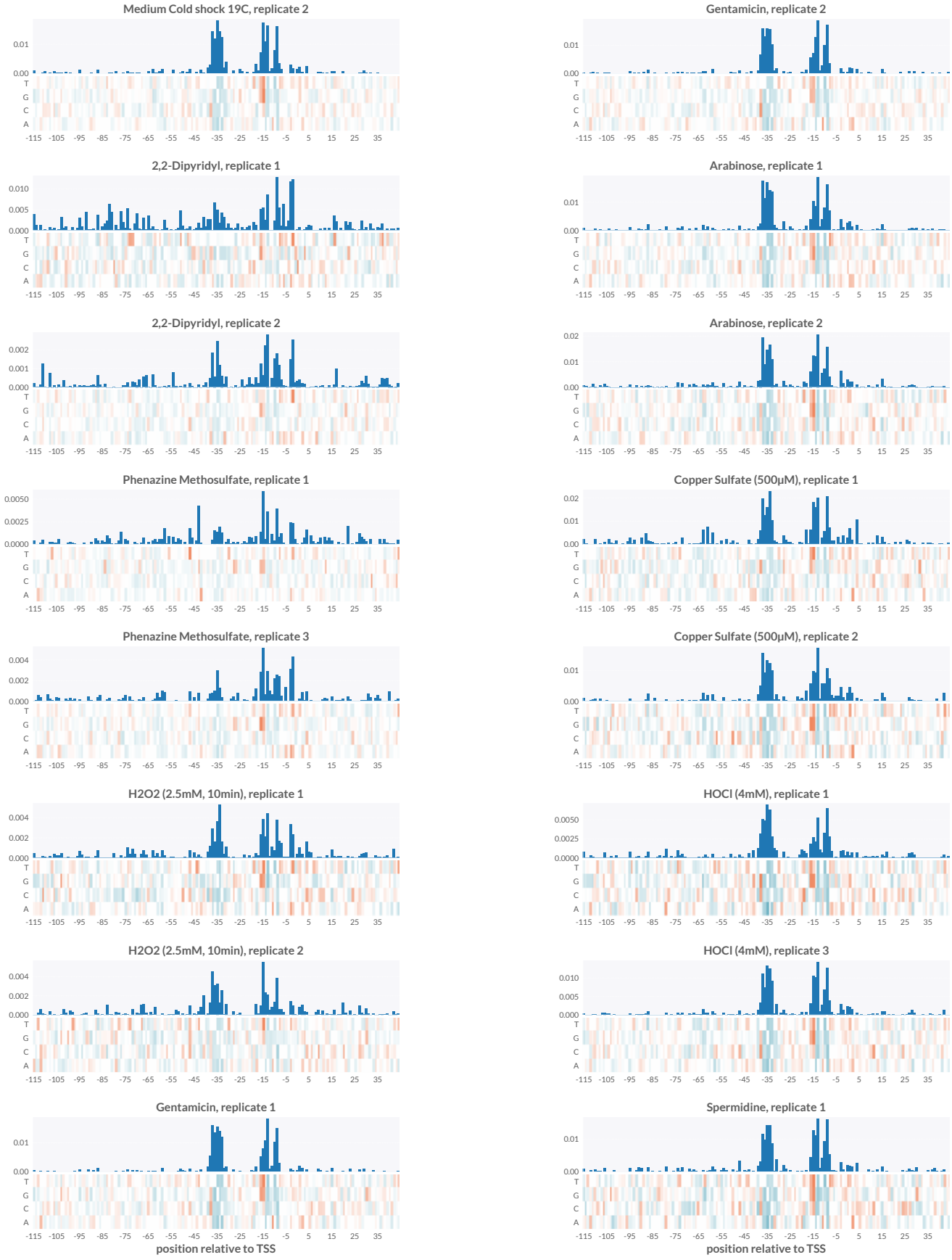

Ethanol (induction), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

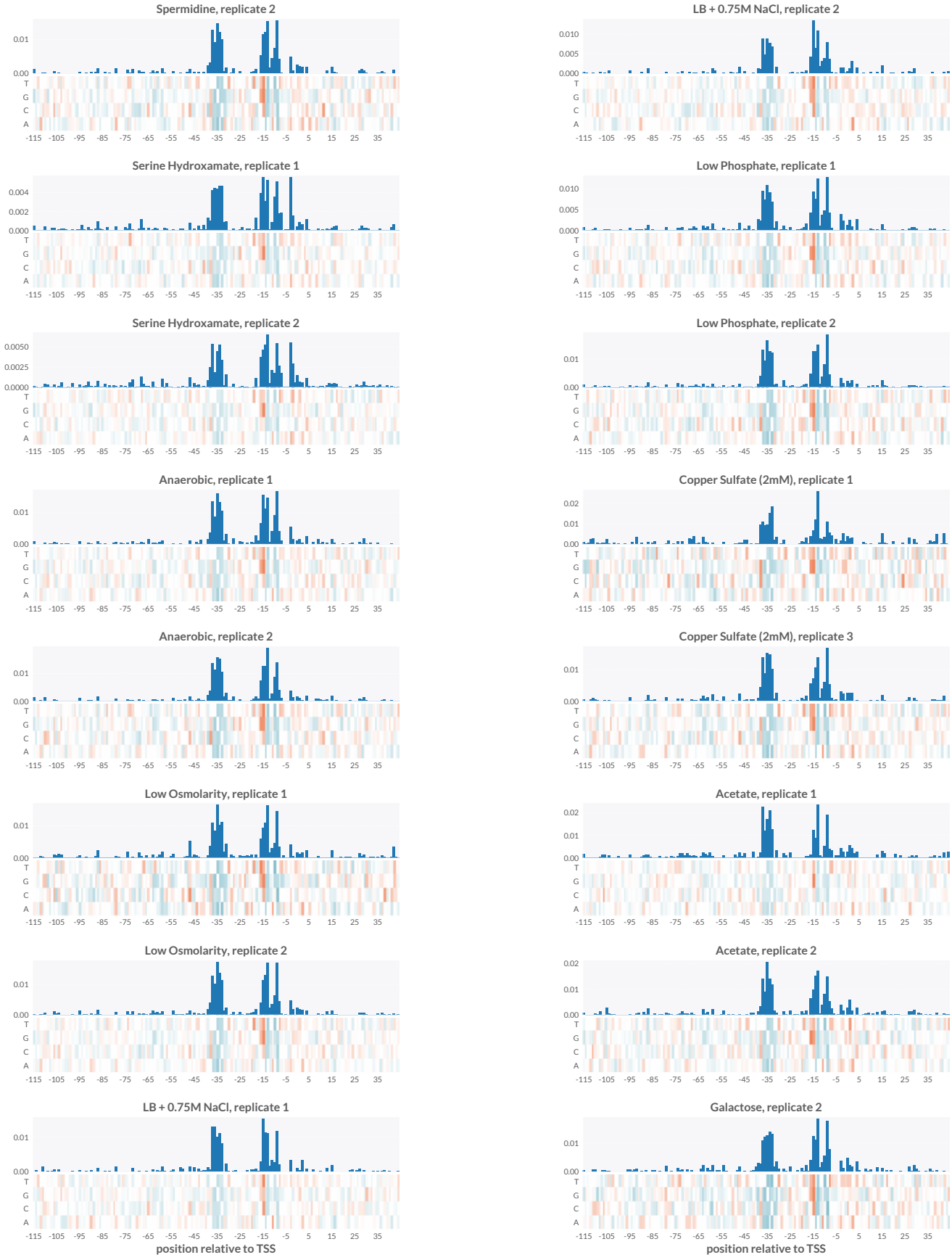

Xylose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Medium Cold shock 19C, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

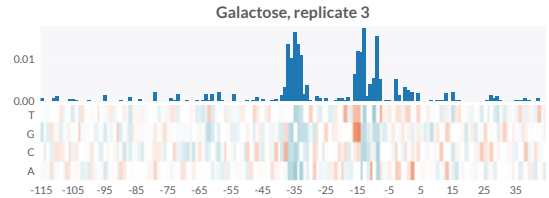
marRp

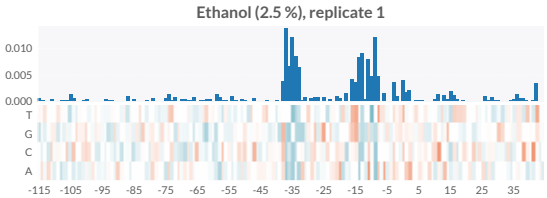

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

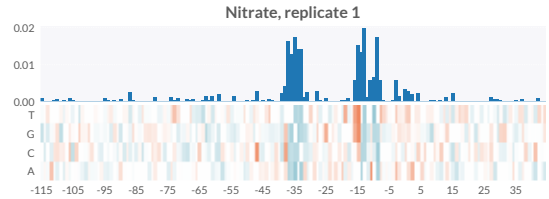
marRp

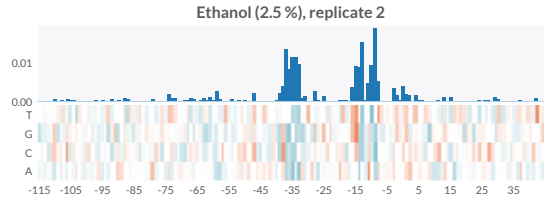

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

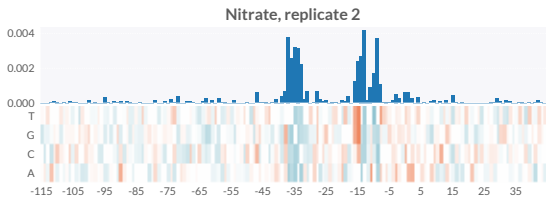
marRp

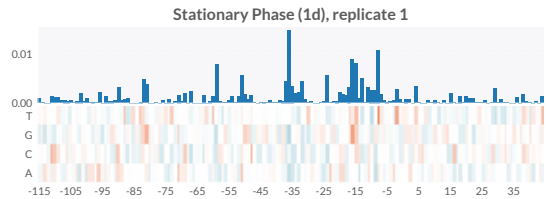

Galactose, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

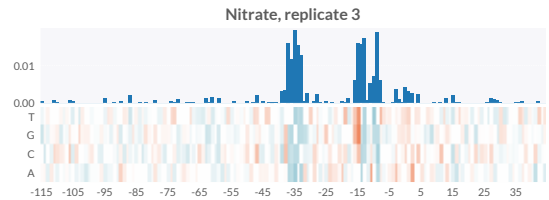

Ethanol (2.5 %), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

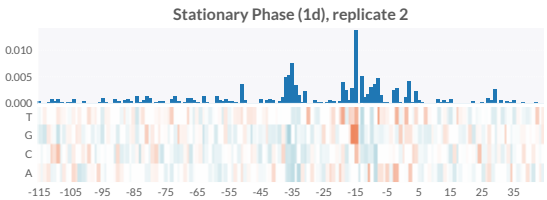

Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

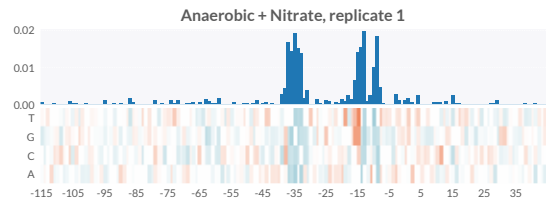

Ethanol (2.5 %), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

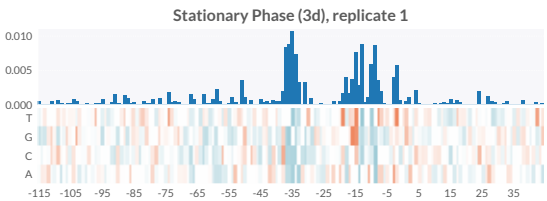

Nitrate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

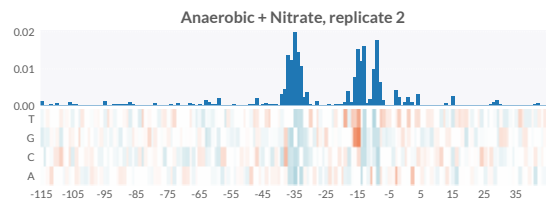

Stationary Phase (1d), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

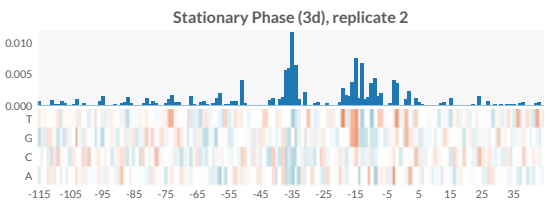

Nitrate, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

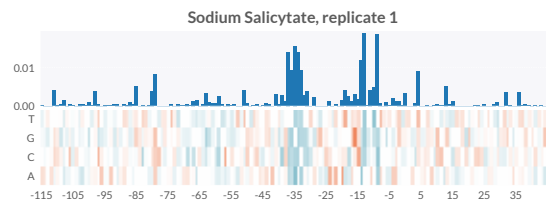

Stationary Phase (1d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

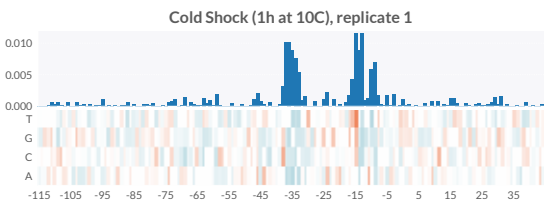

Anaerobic + Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

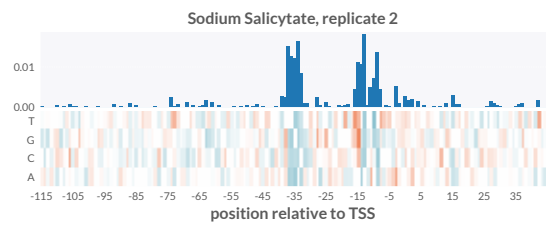

Stationary Phase (3d), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

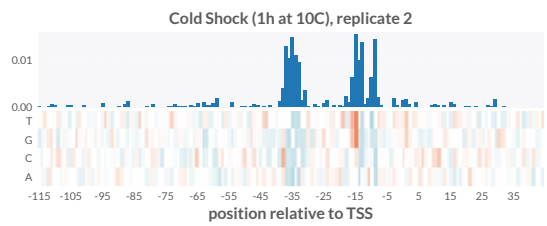

Anaerobic + Nitrate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

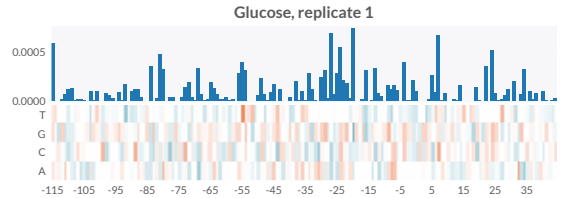

Sodium Salicytate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

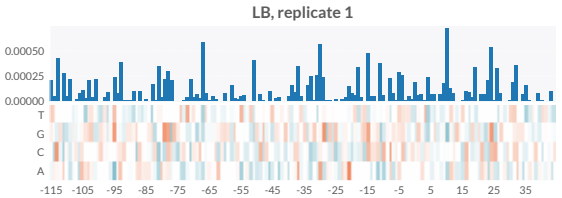

Cold Shock (1h at 10C), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

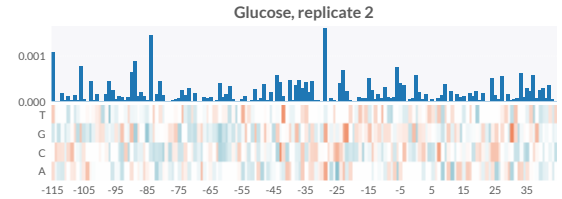

Sodium Salicytate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

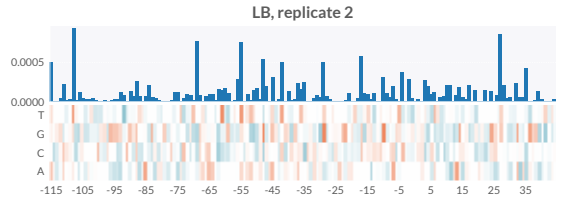

Cold Shock (1h at 10C), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

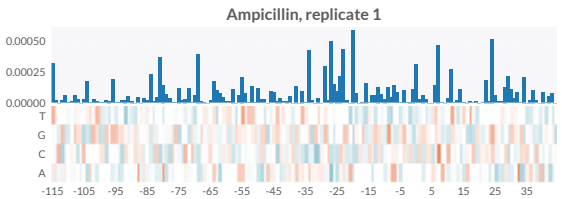
mcbAp5

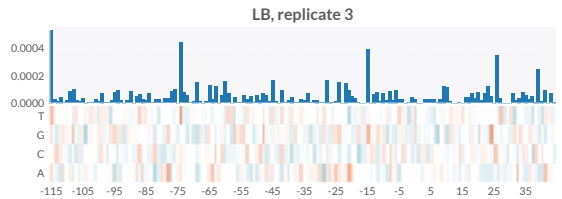

Glucose, replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

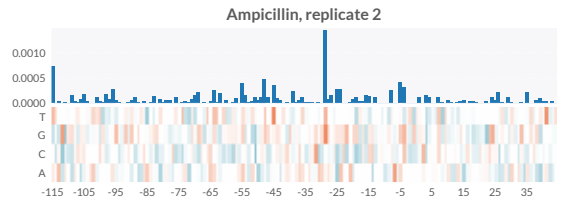

LB, replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

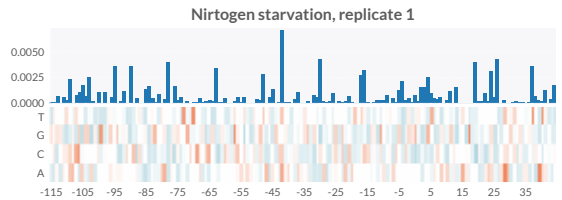

Glucose, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

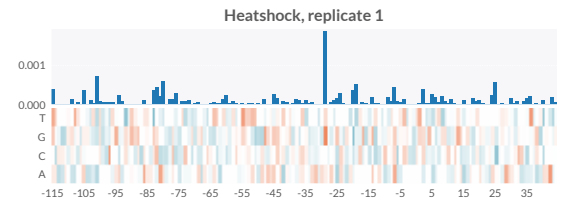

LB, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

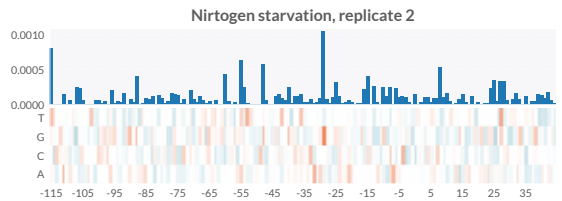

Ampicillin, replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

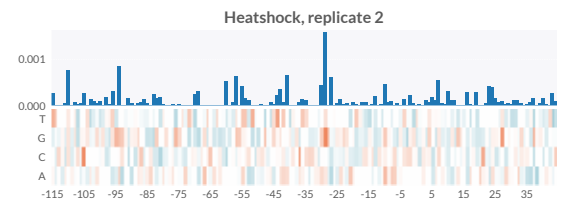

LB, replicate 3
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

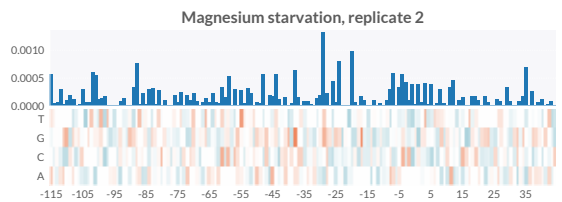

Ampicillin, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

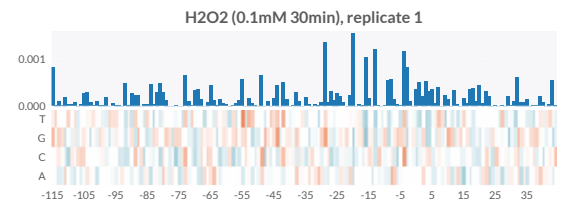

Nirtogen starvation, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

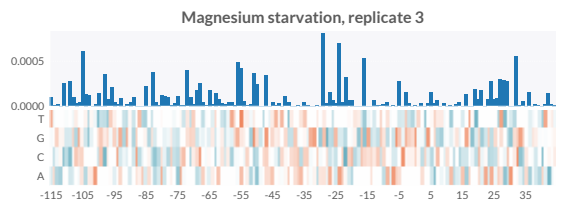

Heatshock, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

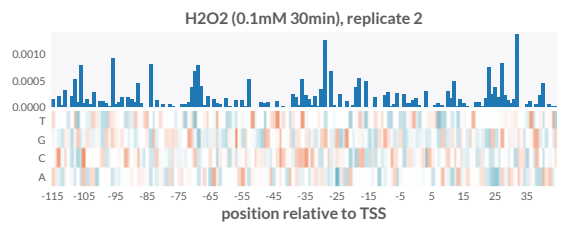

Nirtogen starvation, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

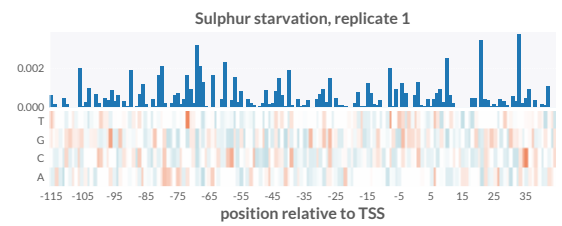

Heatshock, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

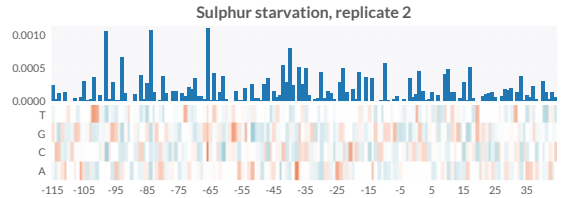

H2O2 (0.1mM 30min), replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

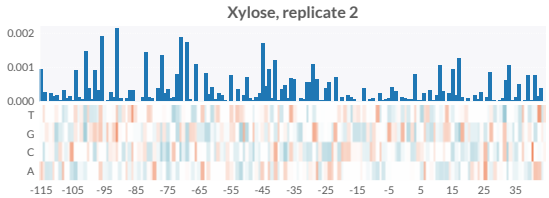

Magnesium starvation, replicate 3
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

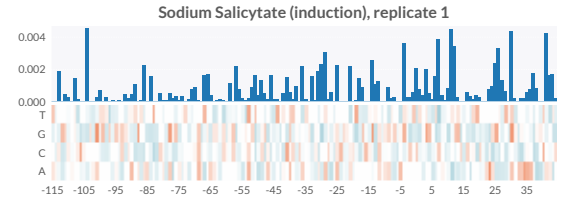

H2O2 (0.1mM 30min), replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

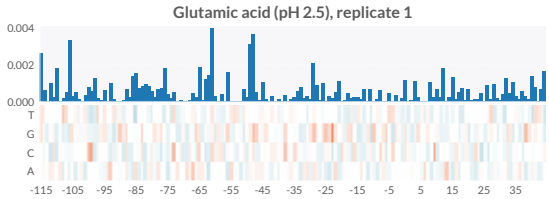

Sulphur starvation, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

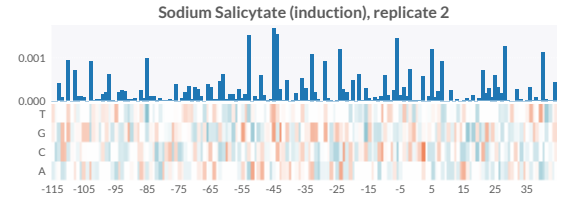
mcbAp5

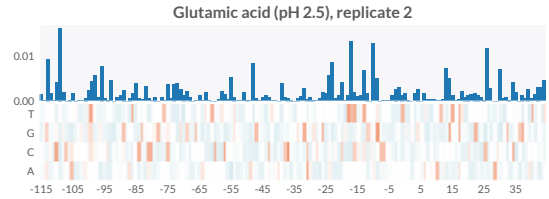

Sulphur starvation, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

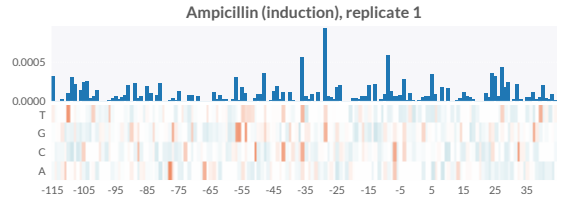

Xylose, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

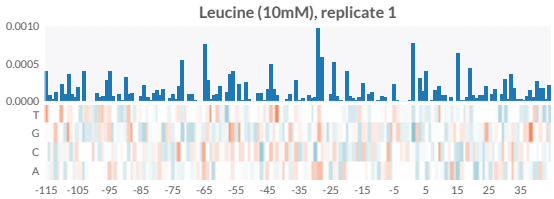

Sodium Salicytate (induction), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

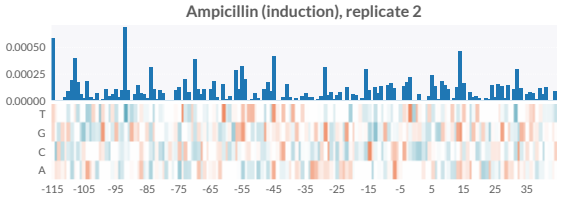

Glutamic acid (pH 2.5), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

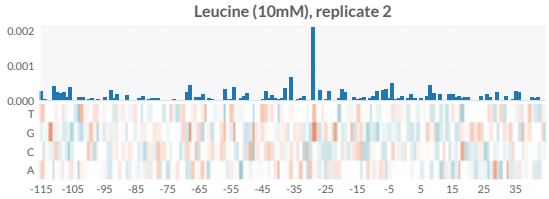

Sodium Salicytate (induction), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

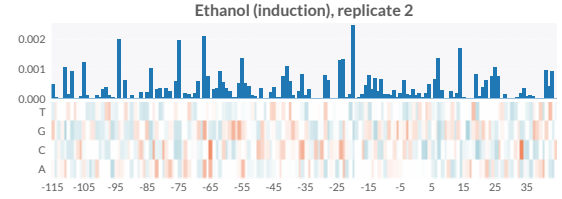

Glutamic acid (pH 2.5), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

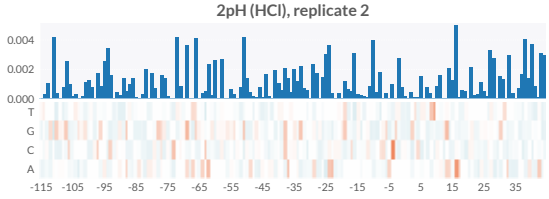

Ampicillin (induction), replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

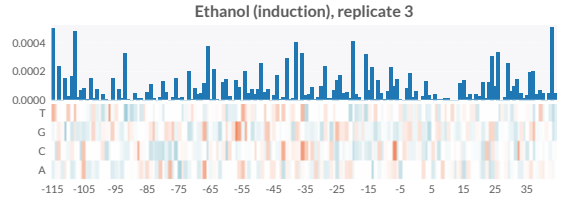

Leucine (10mM), replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

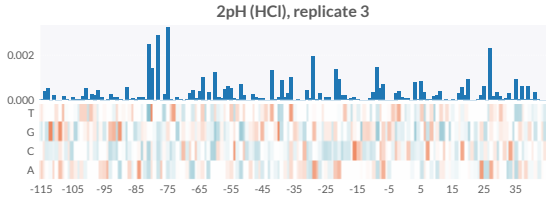

Ampicillin (induction), replicate 2
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

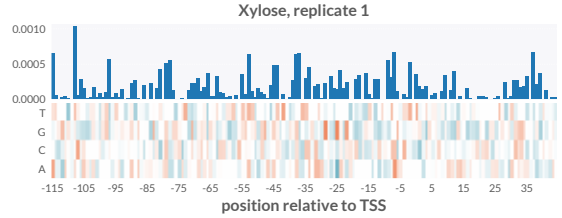

Leucine (10mM), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

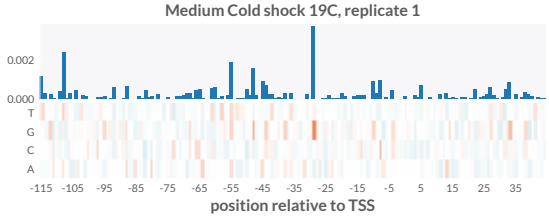

Ethanol (induction), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

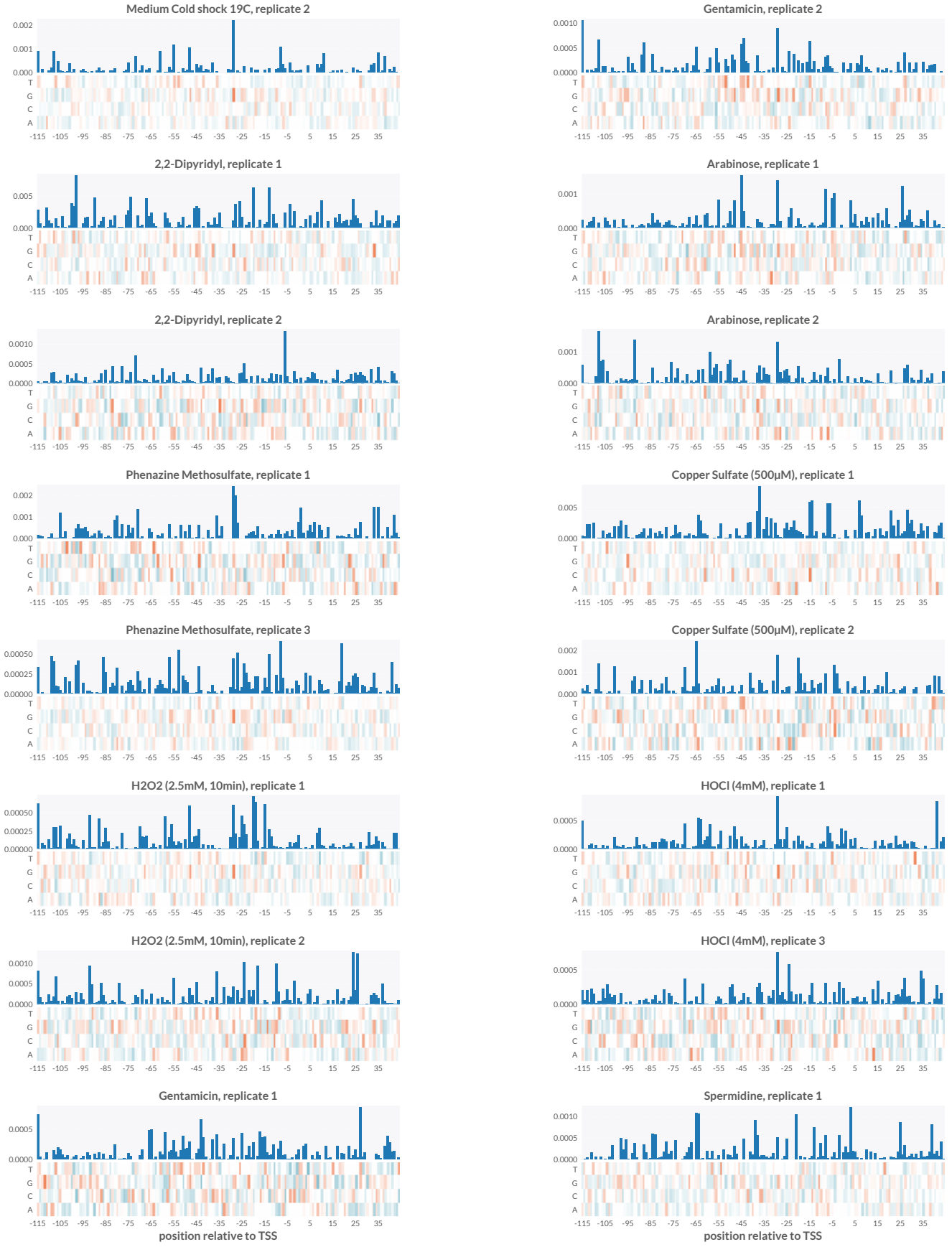

Ethanol (induction), replicate 3
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

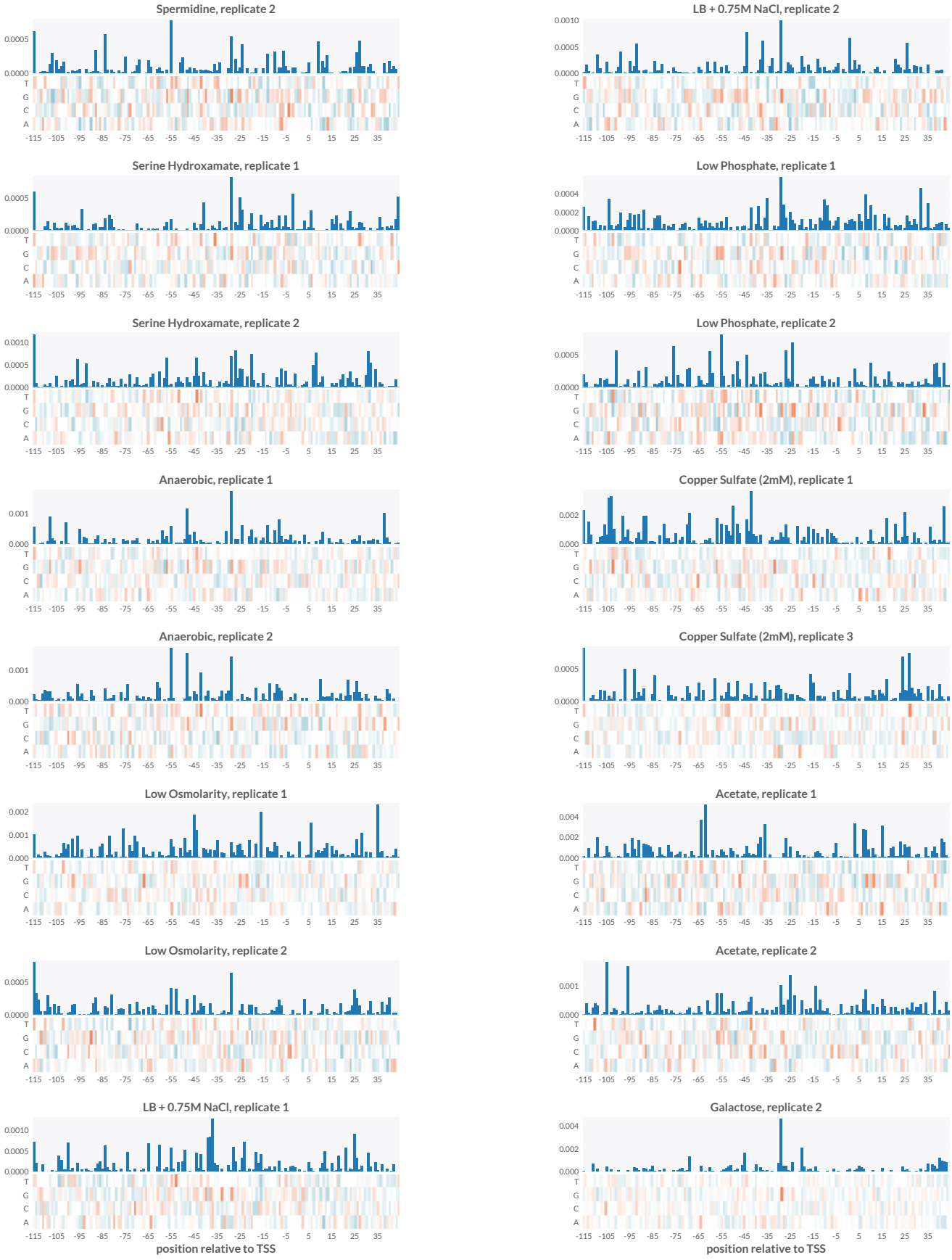

Xylose, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Medium Cold shock 19C, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

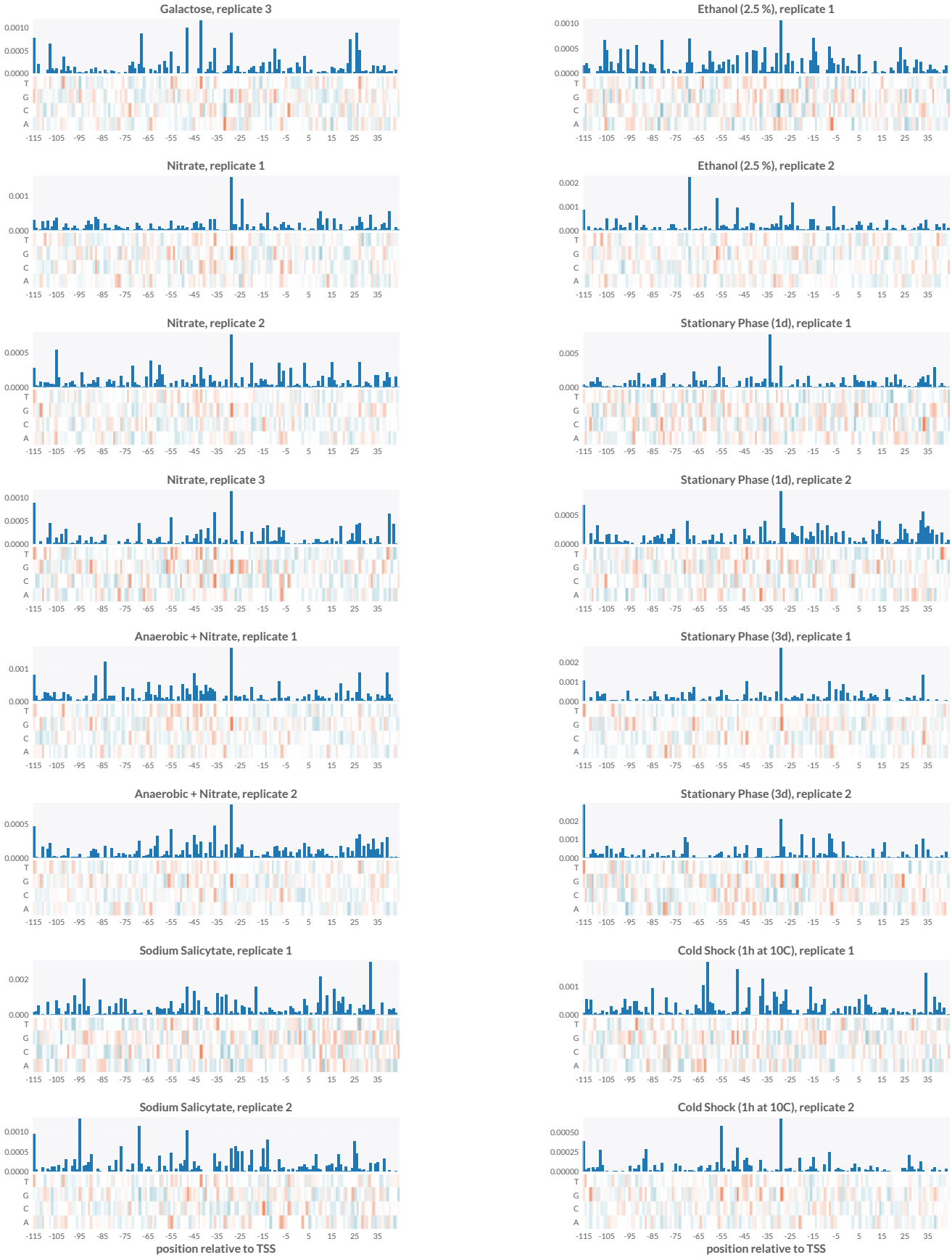
mcbAp5


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

mcbAp5


Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

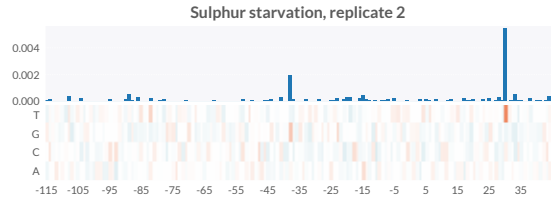
mcbAp5

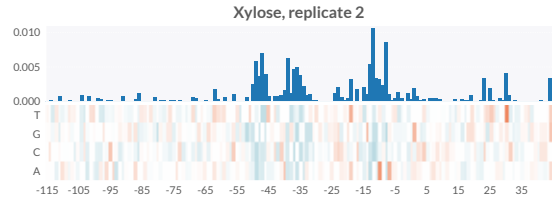

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

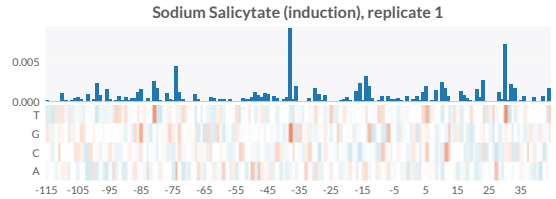
mglBp

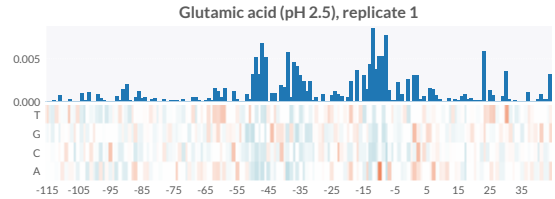

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

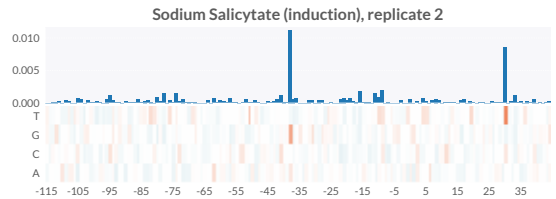
mglBp

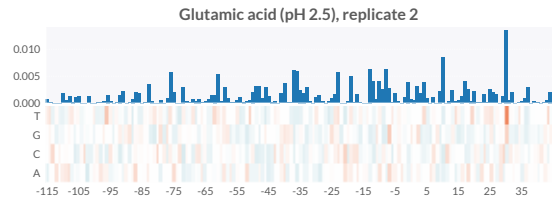

Sulphur starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

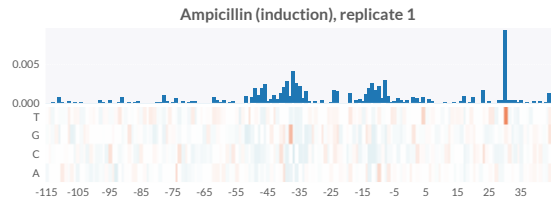

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

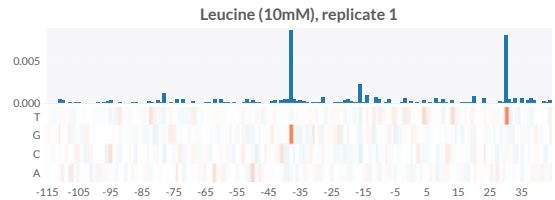

Sodium Salicytate (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

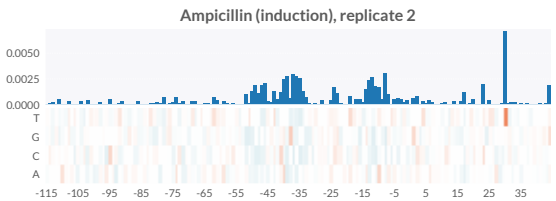

Glutamic acid (pH 2.5), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

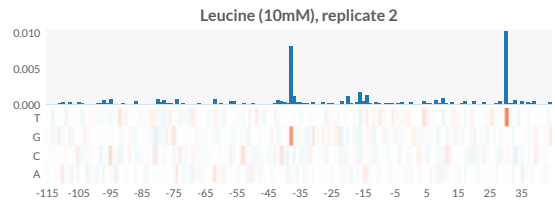

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

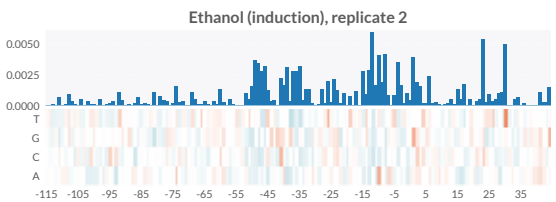

Glutamic acid (pH 2.5), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

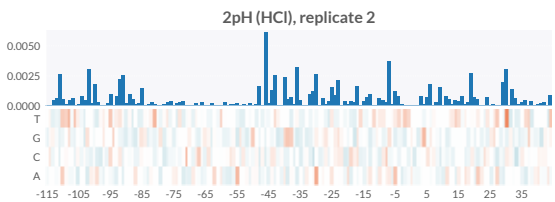

Ampicillin (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

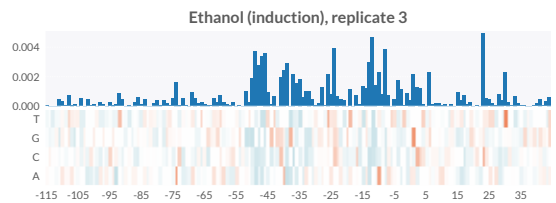

Leucine (10mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

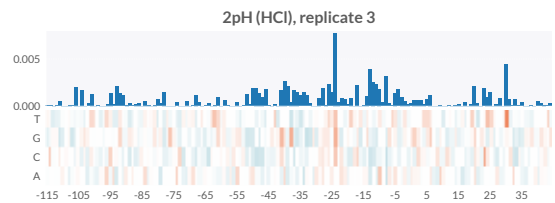

Ampicillin (induction), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

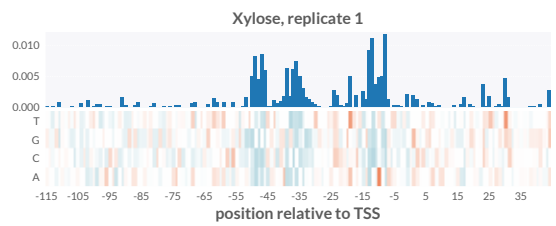

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

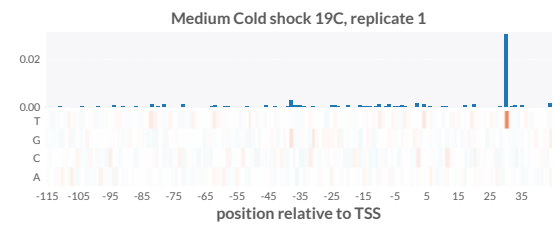

Ethanol (induction), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

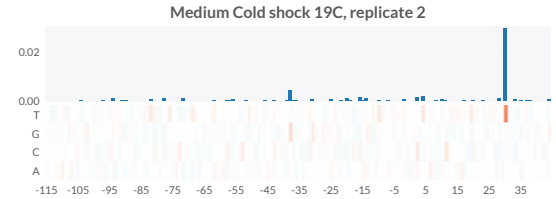

Ethanol (induction), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

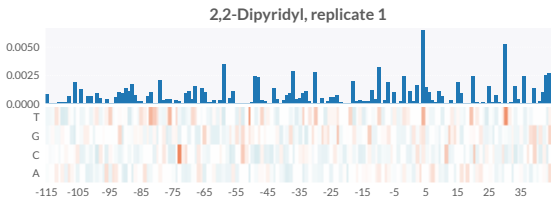

2pH (HCl), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

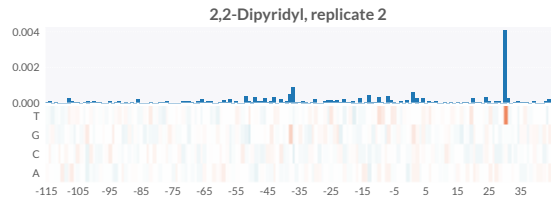

Xylose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

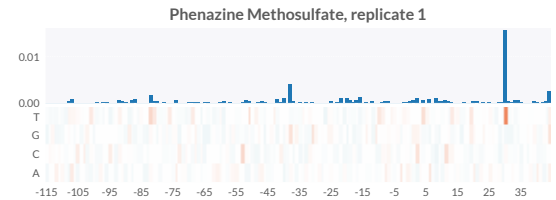

Medium Cold shock 19C, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

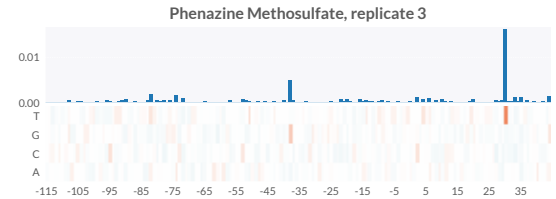
mglBp

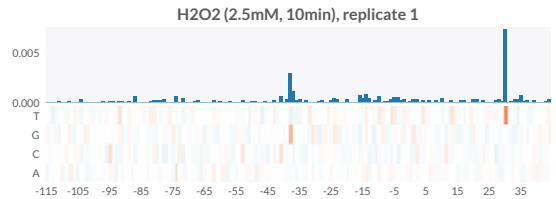

Medium Cold shock 19C, replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

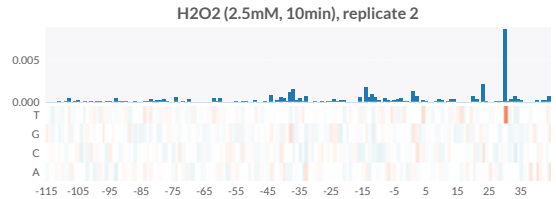

2,2-Dipyridyl, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

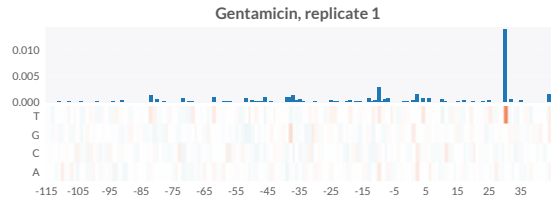

2,2-Dipyridyl, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

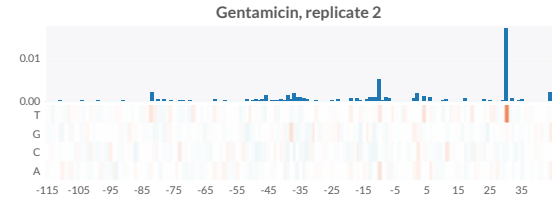

Phenazine Methosulfate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

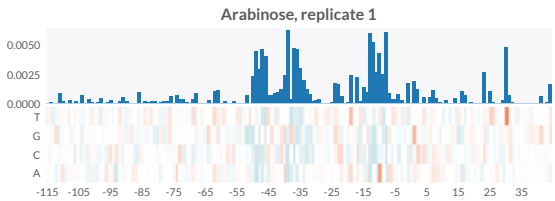

Phenazine Methosulfate, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

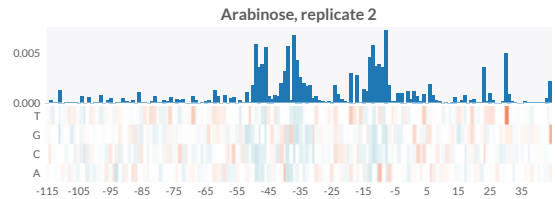

H2O2 (2.5mM, 10min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

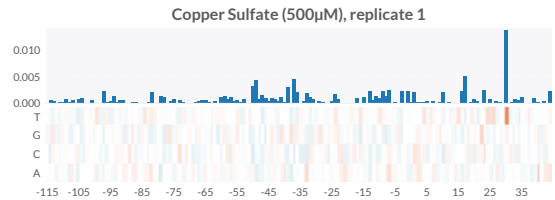

H2O2 (2.5mM, 10min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

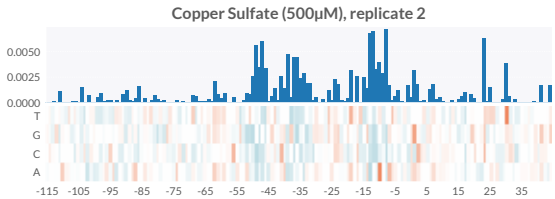

Gentamicin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

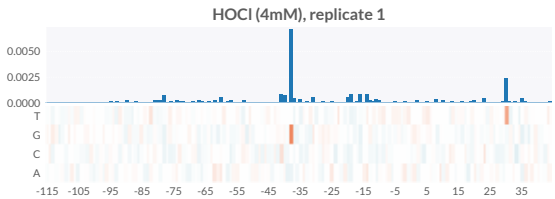

Gentamicin, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

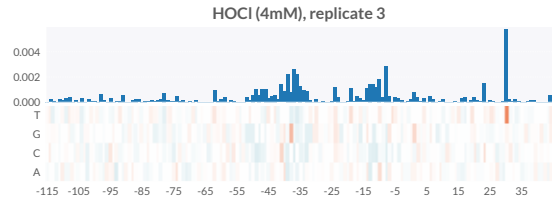

Arabinose, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

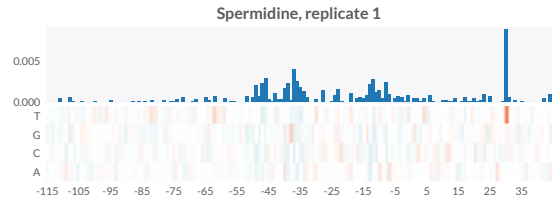

Arabinose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Copper Sulfate (500µM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Copper Sulfate (500µM), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

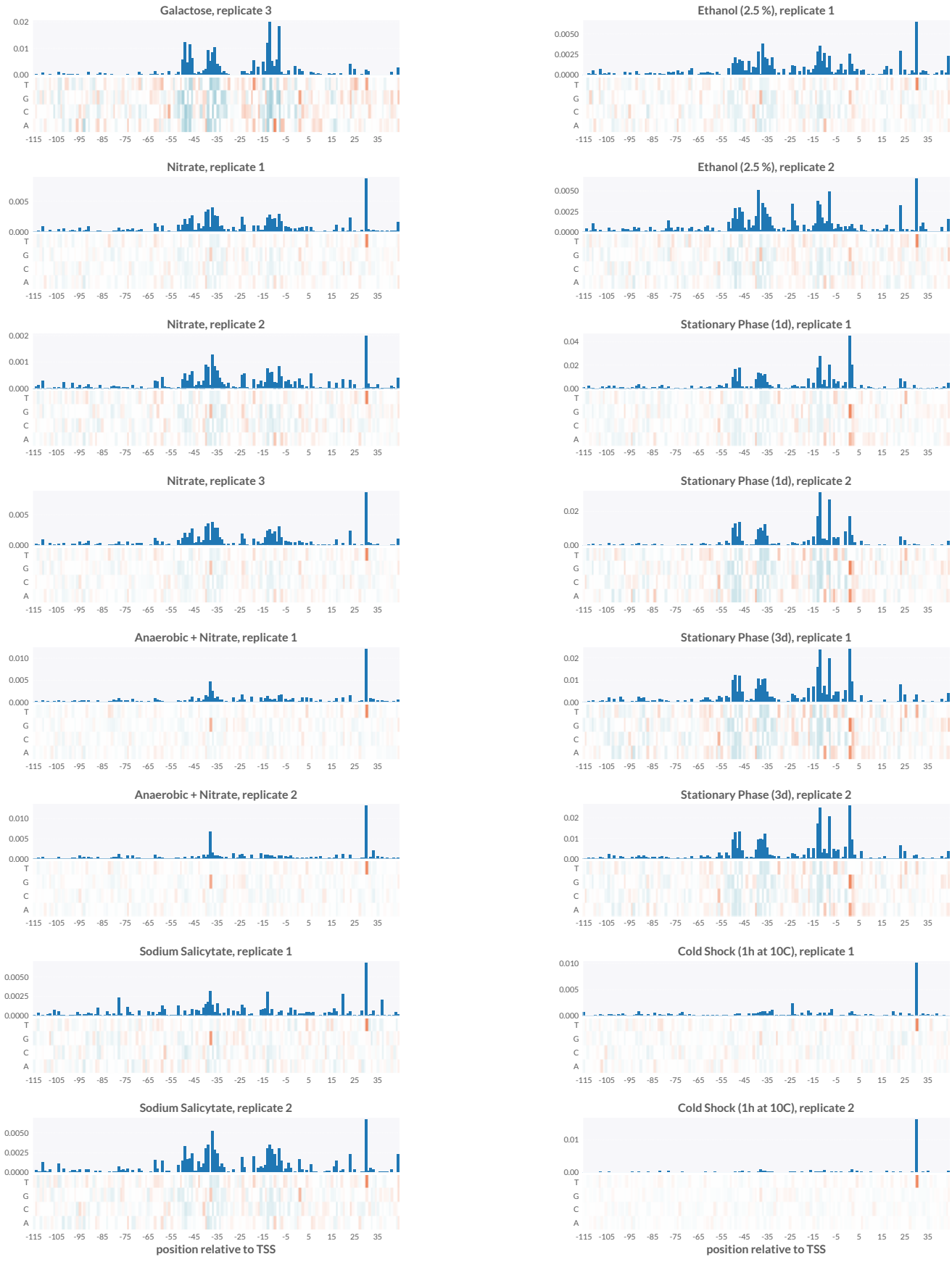

HOCl (4mM), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Spermidine, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

mglBp


Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

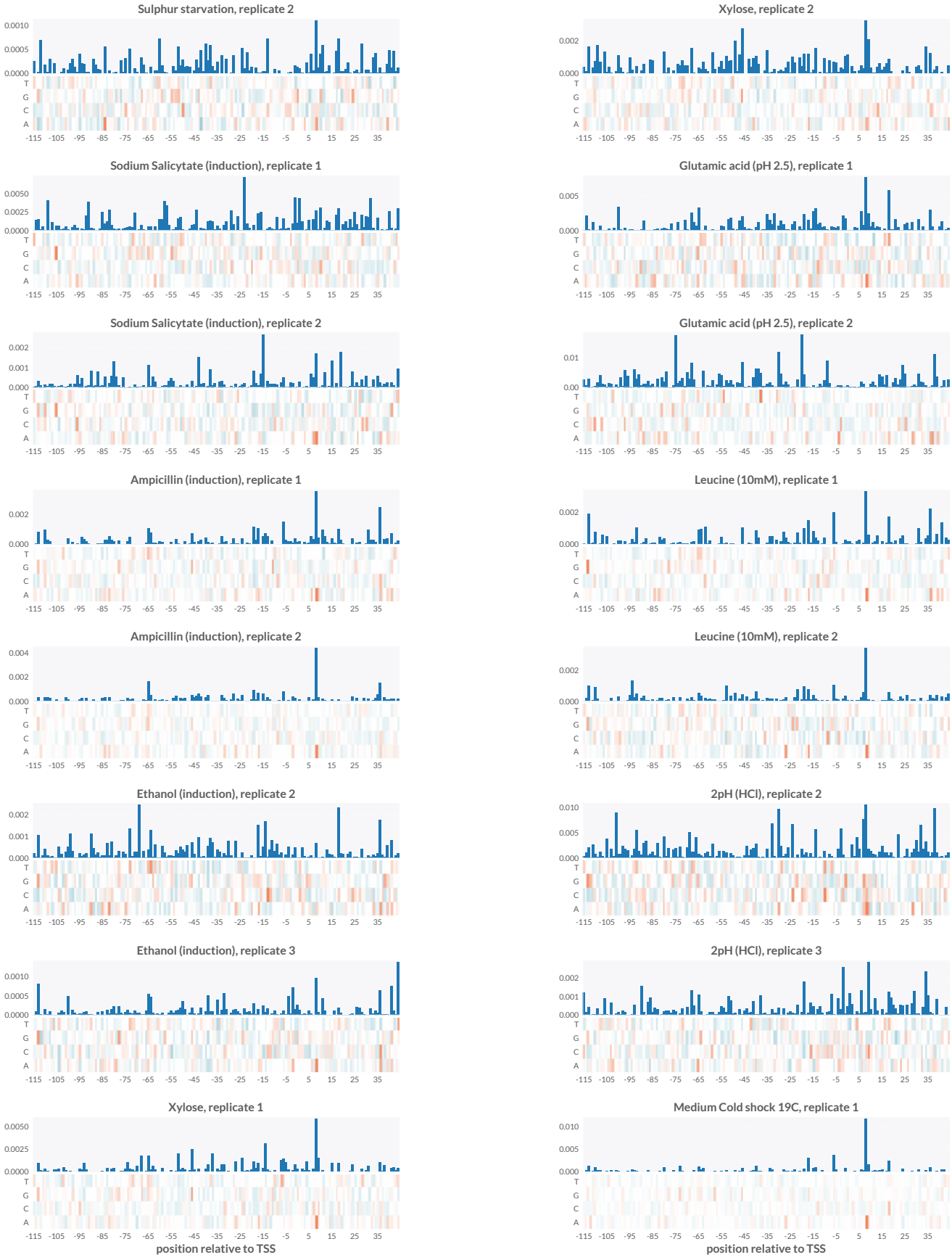
mglBp


Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

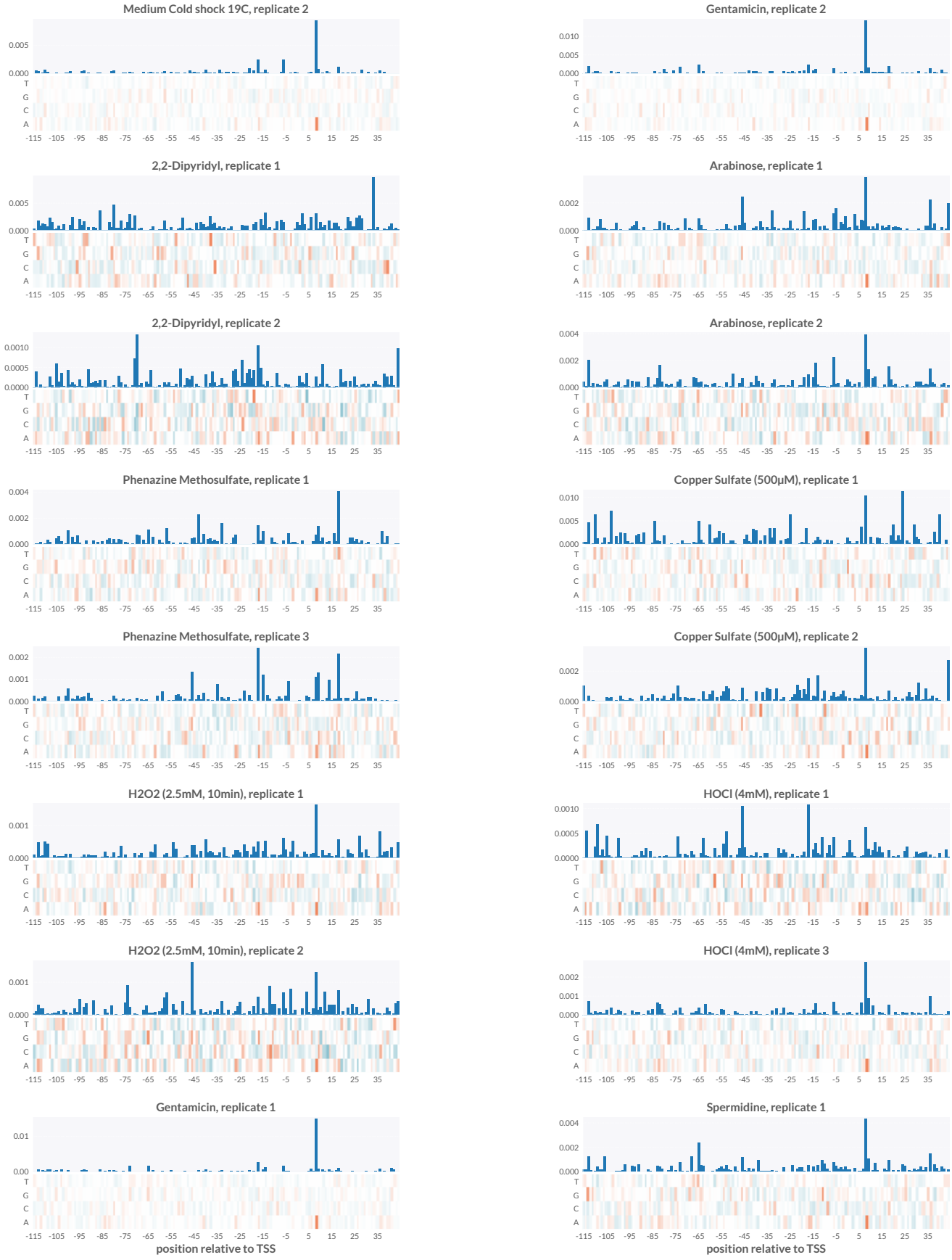
mhpRp1


Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

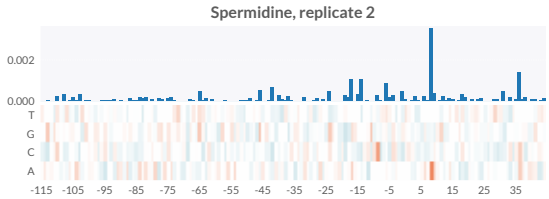
mhpRp1

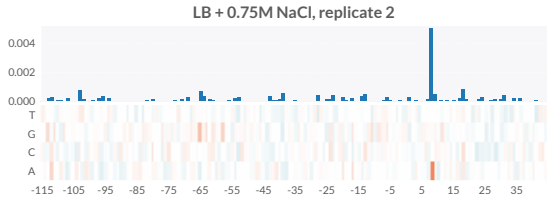

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

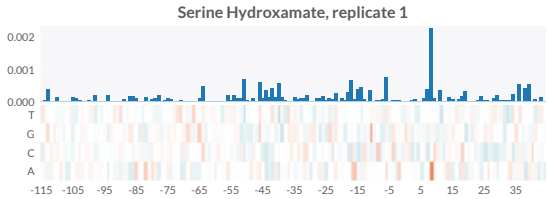
mhpRp1

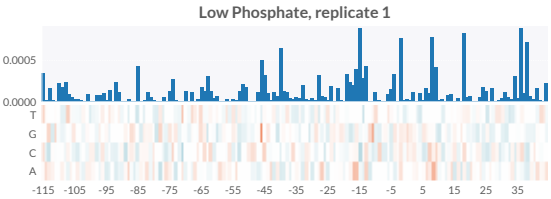

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

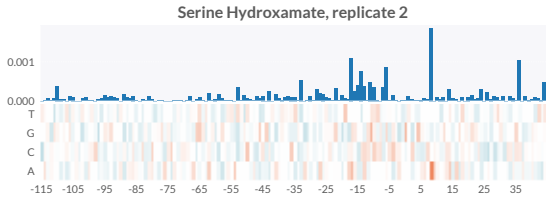
mhpRp1

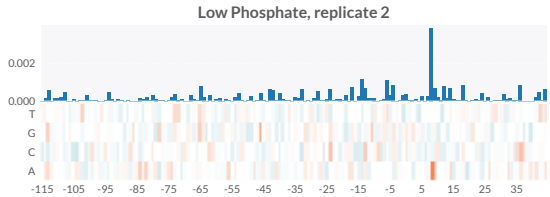

Spermidine, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

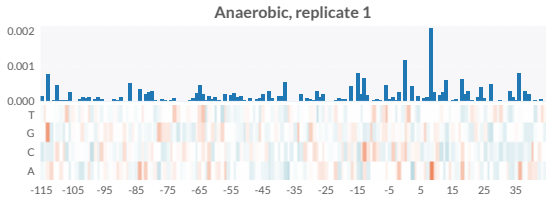

LB + 0.75M NaCl, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

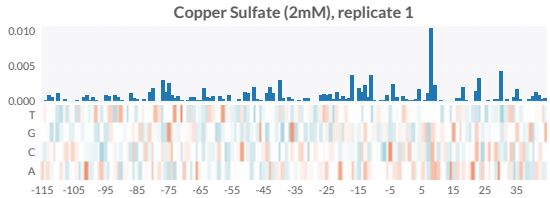

Serine Hydroxamate, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

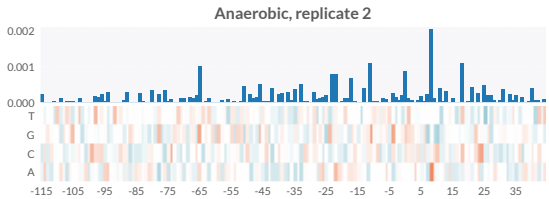

Low Phosphate, replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

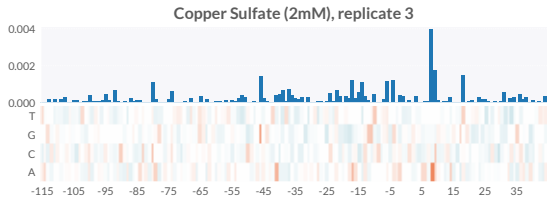

Serine Hydroxamate, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

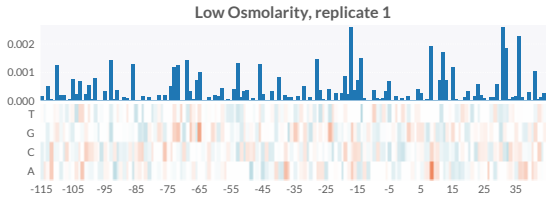

Low Phosphate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

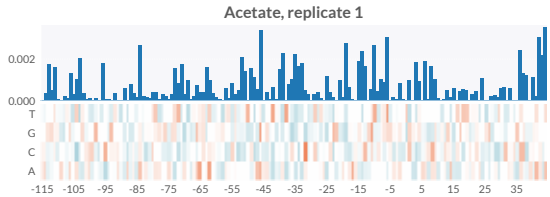

Anaerobic, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

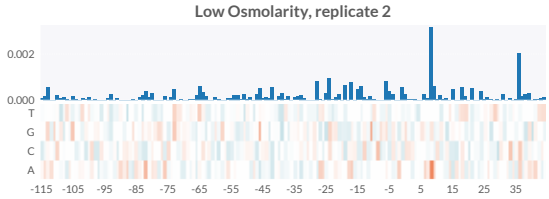

Copper Sulfate (2mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

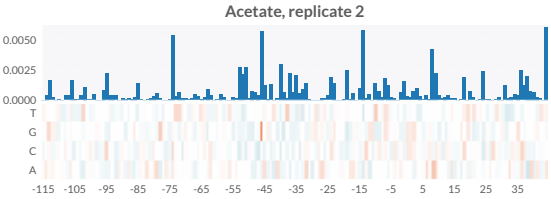

Anaerobic, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

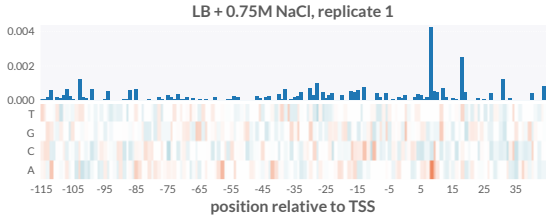

Copper Sulfate (2mM), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

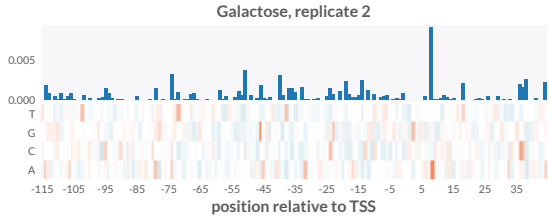

Low Osmolarity, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

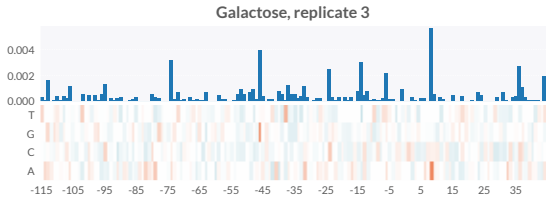

Low Osmolarity, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

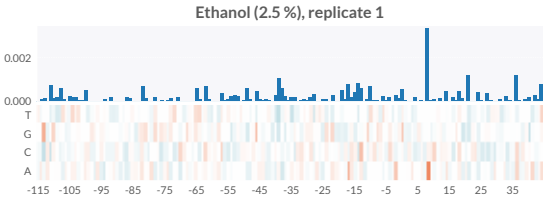

Acetate, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

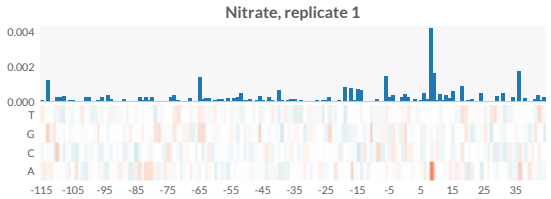

LB + 0.75M NaCl, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

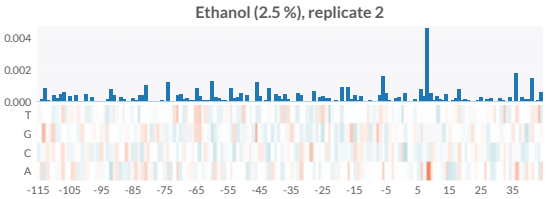

Galactose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

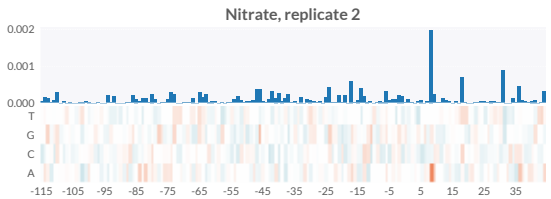
mhpRp1

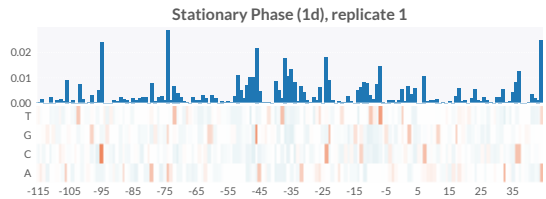

Galactose, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

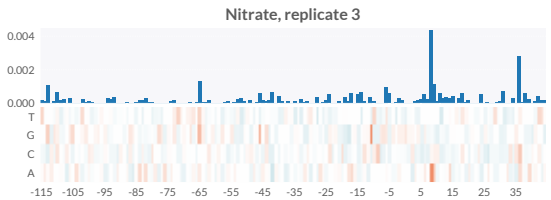

Ethanol (2.5 %), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

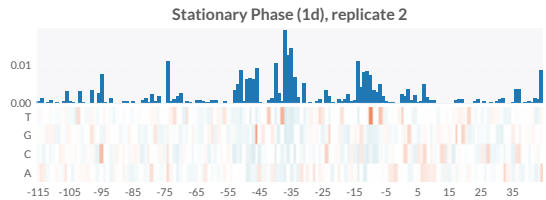

Nitrate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

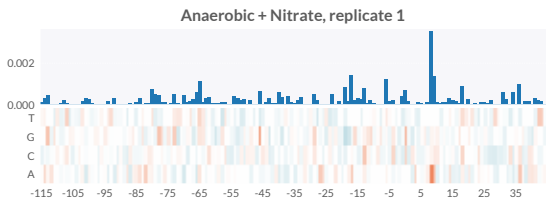

Ethanol (2.5 %), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

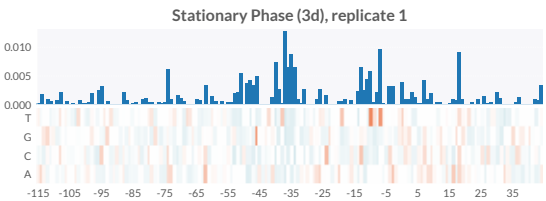

Nitrate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

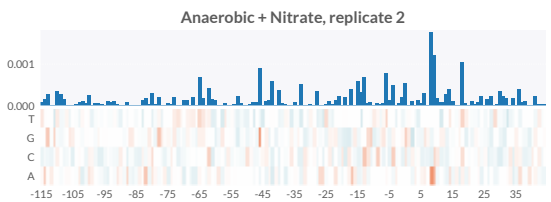

Stationary Phase (1d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

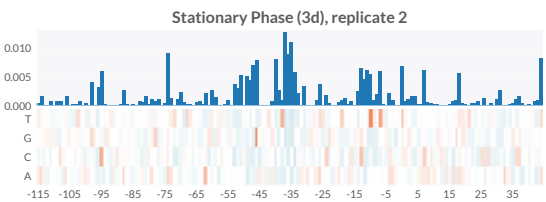

Nitrate, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

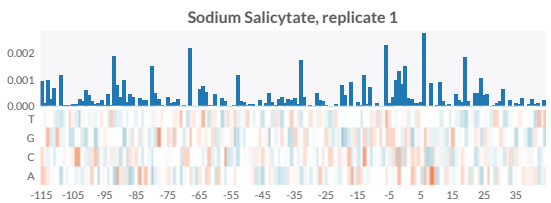

Stationary Phase (1d), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

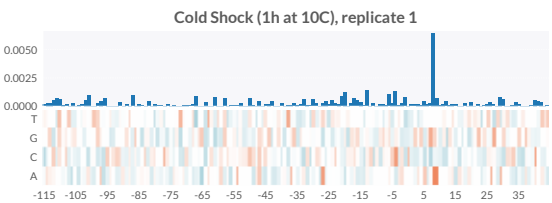

Anaerobic + Nitrate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

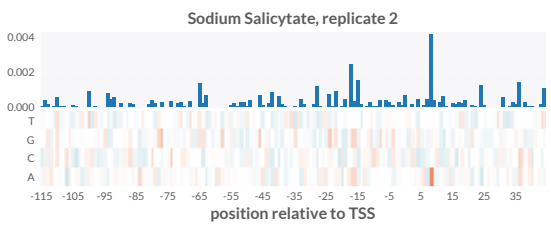

Stationary Phase (3d), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

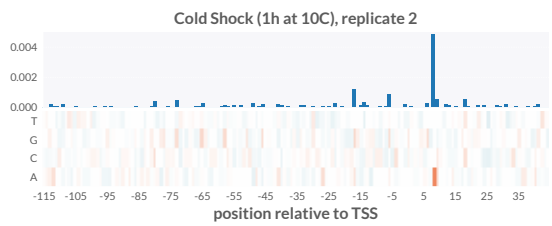

Anaerobic + Nitrate, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

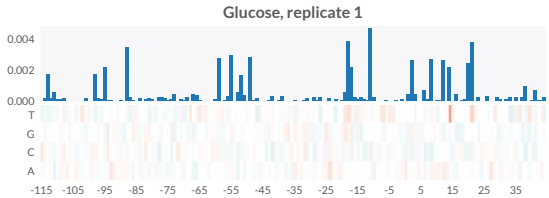

Sodium Salicytate, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

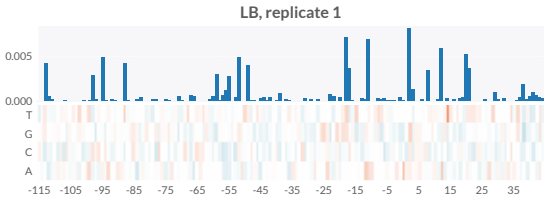

Cold Shock (1h at 10C), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

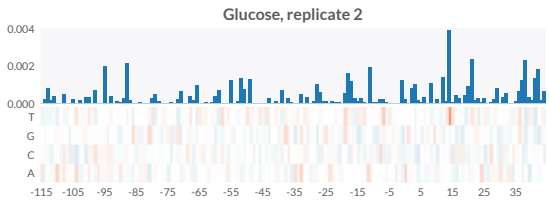

Sodium Salicytate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

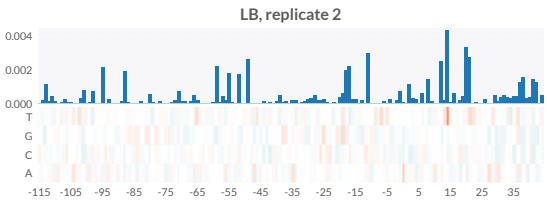

Cold Shock (1h at 10C), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

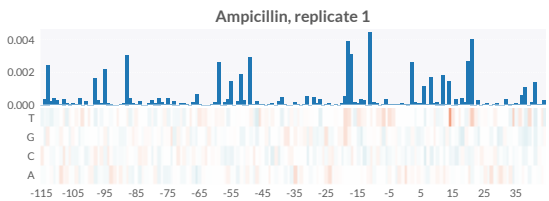
mhpRp2

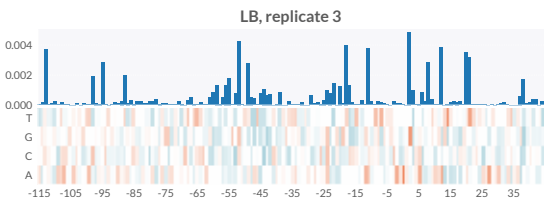

Glucose, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

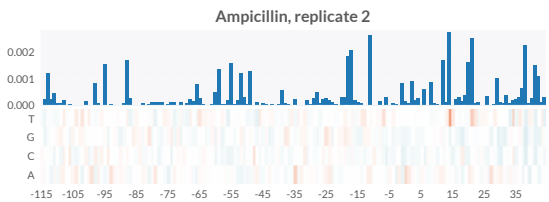

LB, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

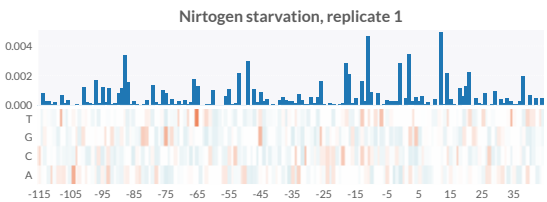

Glucose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

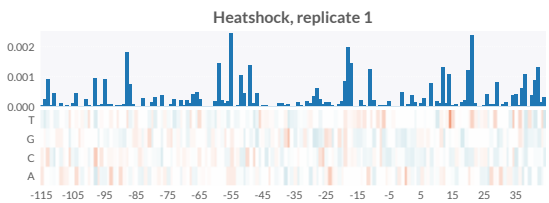

LB, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

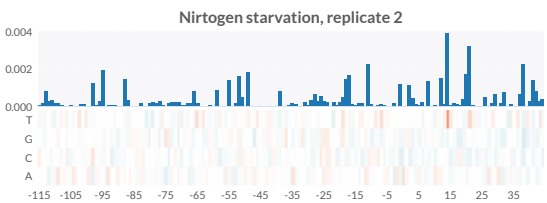

Ampicillin, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

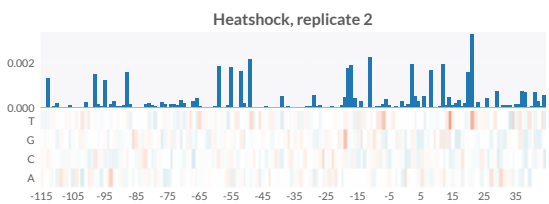

LB, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

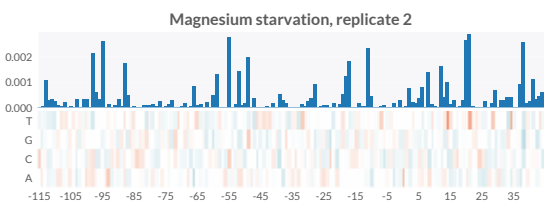

Ampicillin, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

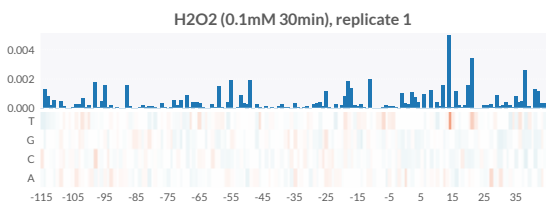

Nirtogen starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

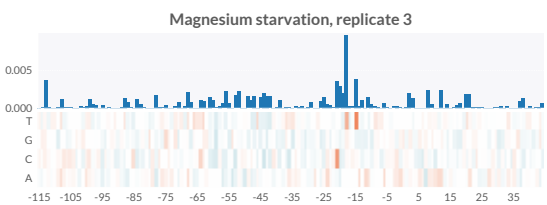

Heatshock, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

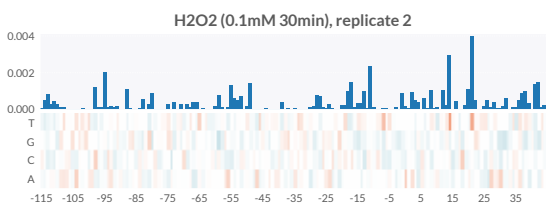

Nirtogen starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

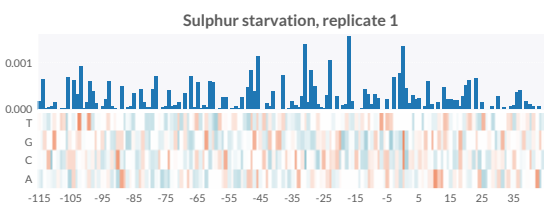

Heatshock, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

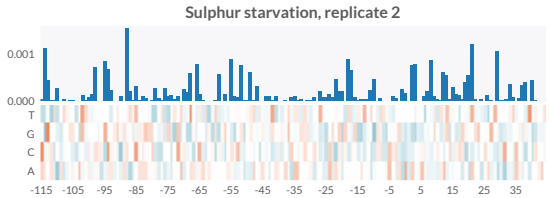

H2O2 (0.1mM 30min), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

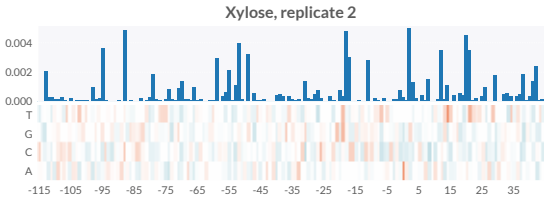

Magnesium starvation, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

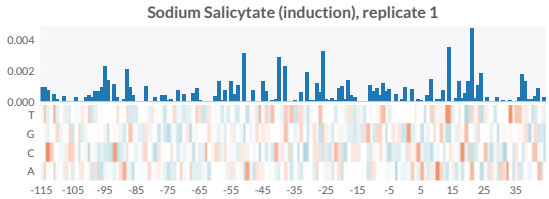

H2O2 (0.1mM 30min), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

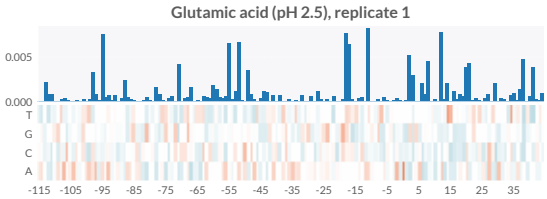

Sulphur starvation, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

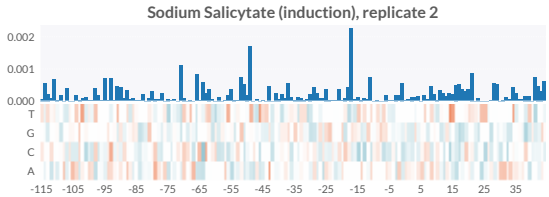
mhpRp2

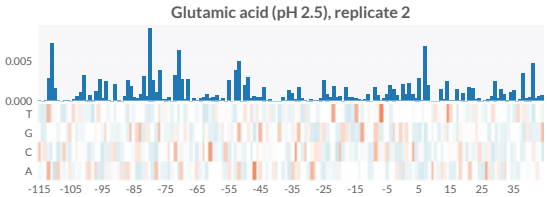

Sulphur starvation, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

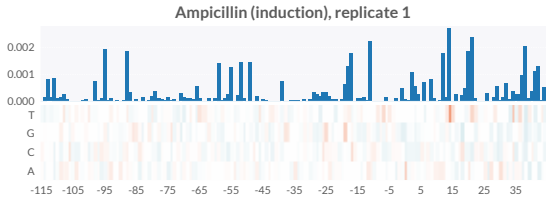

Xylose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

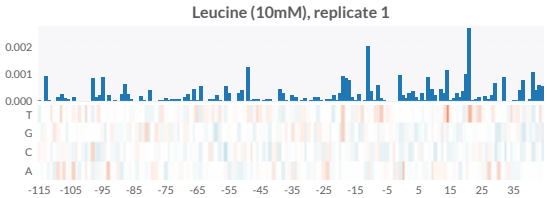

Sodium Salicytate (induction), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

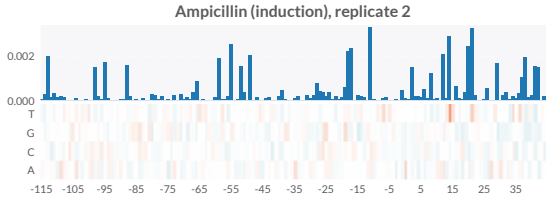

Glutamic acid (pH 2.5), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

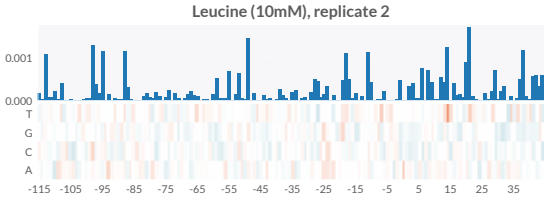

Sodium Salicytate (induction), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

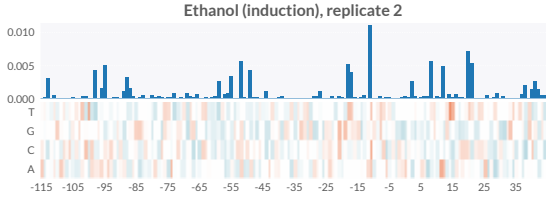

Glutamic acid (pH 2.5), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

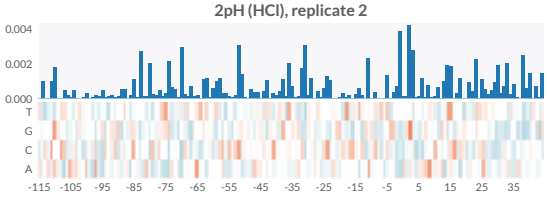

Ampicillin (induction), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

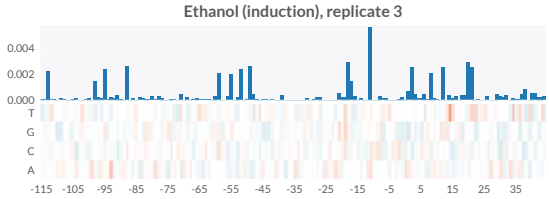

Leucine (10mM), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

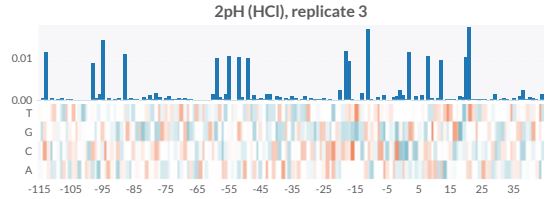

Ampicillin (induction), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

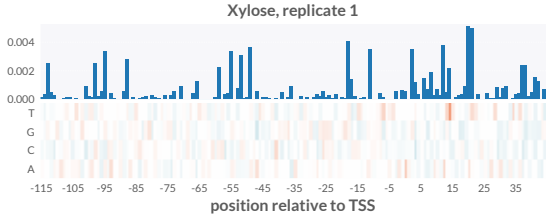

Leucine (10mM), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

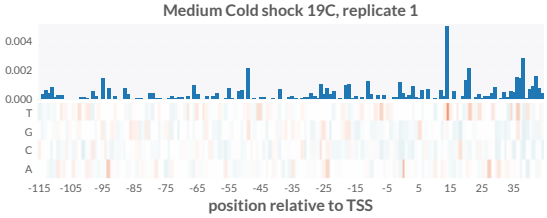

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

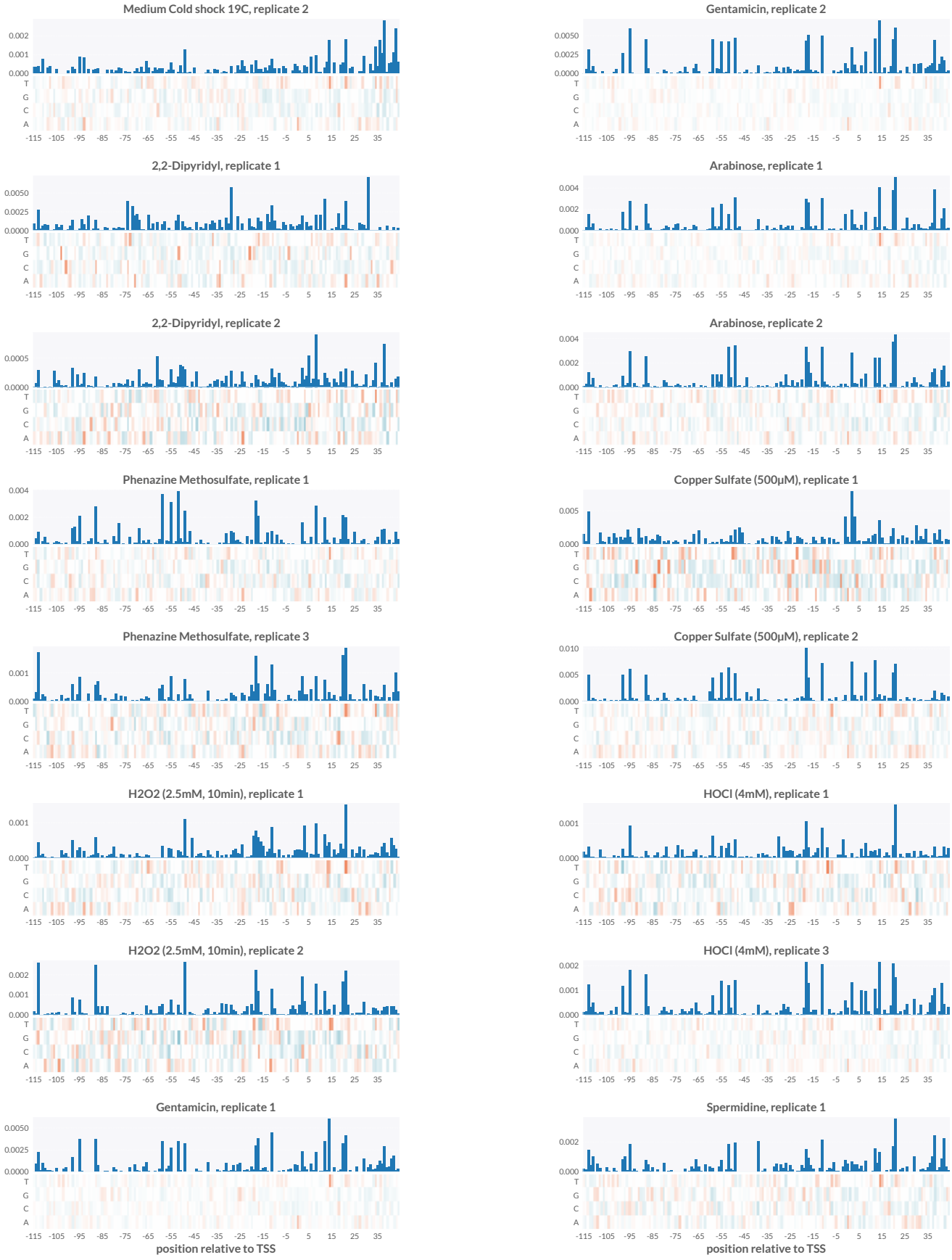

Ethanol (induction), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

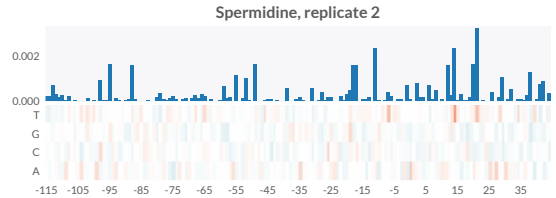

Xylose, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

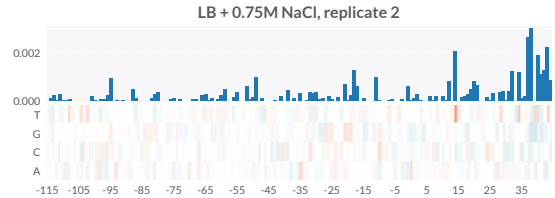

Medium Cold shock 19C, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

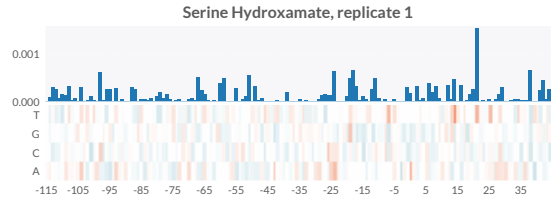
mhpRp2

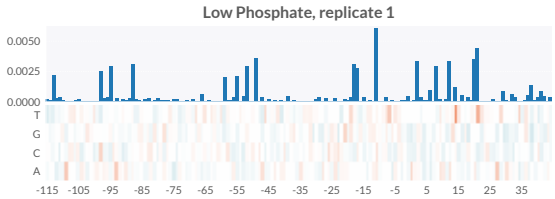

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

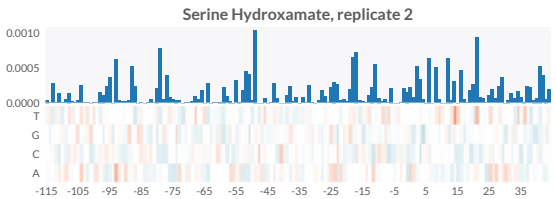
mhpRp2

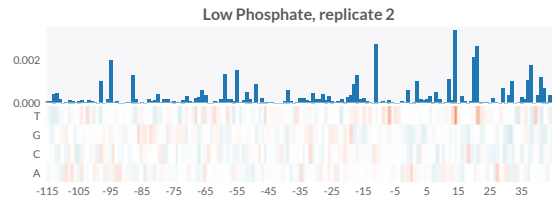

Spermidine, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

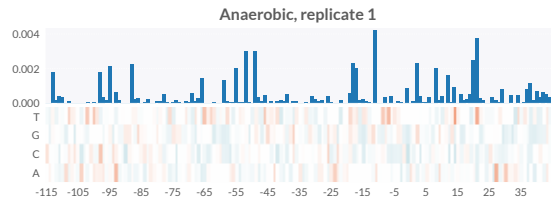

LB + 0.75M NaCl, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

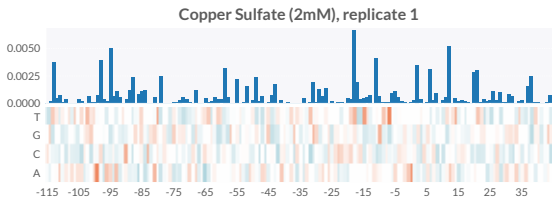

Serine Hydroxamate, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

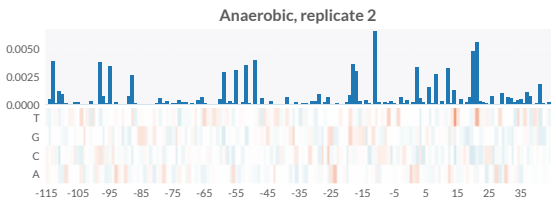

Low Phosphate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

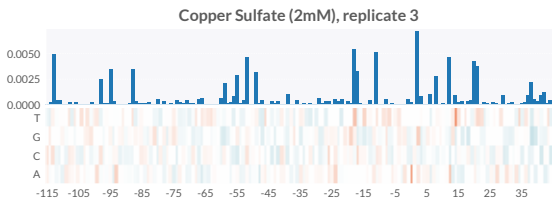

Serine Hydroxamate, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

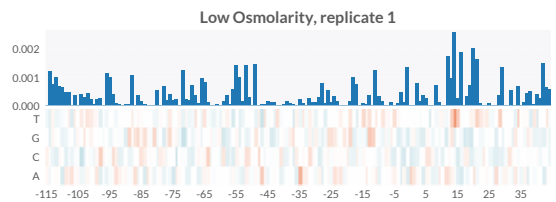

Low Phosphate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

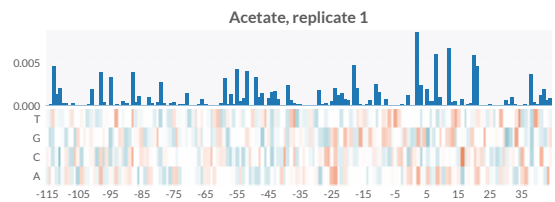

Anaerobic, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

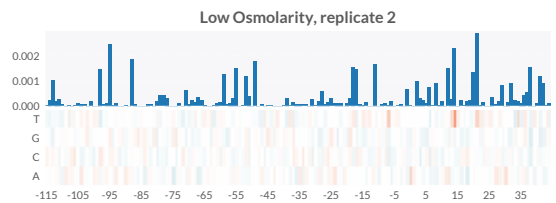

Copper Sulfate (2mM), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

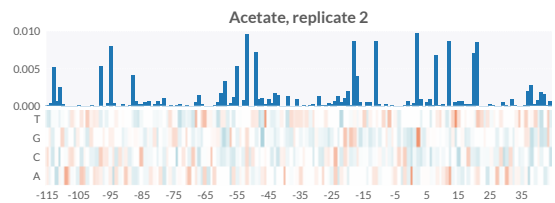

Anaerobic, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

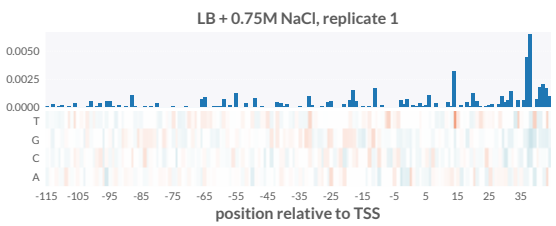

Copper Sulfate (2mM), replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

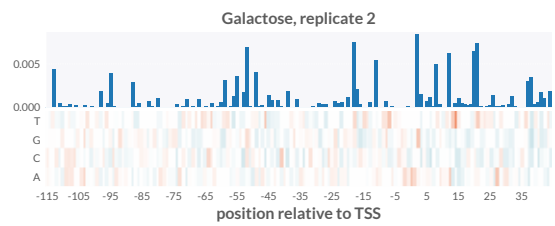

Low Osmolarity, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

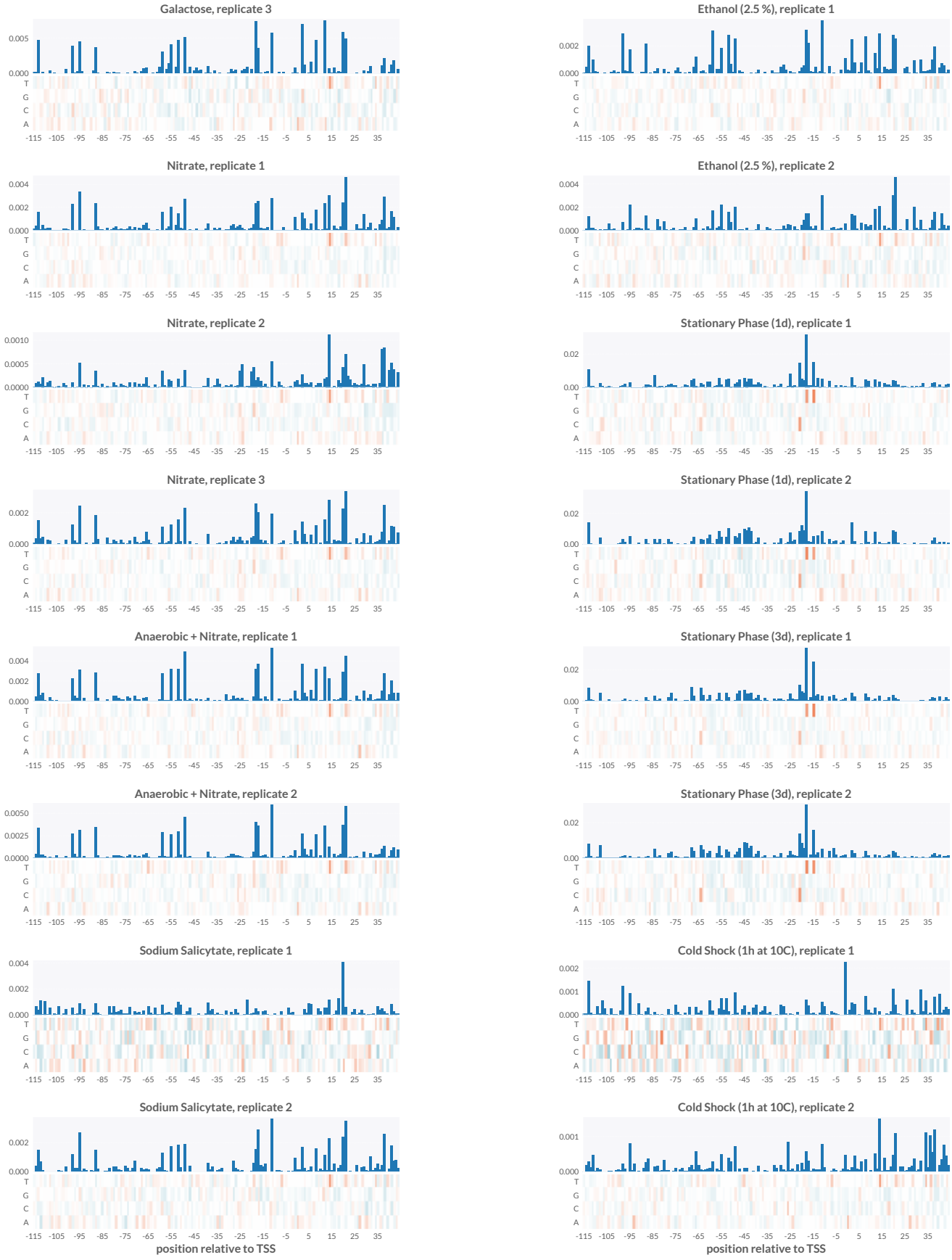

Low Osmolarity, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

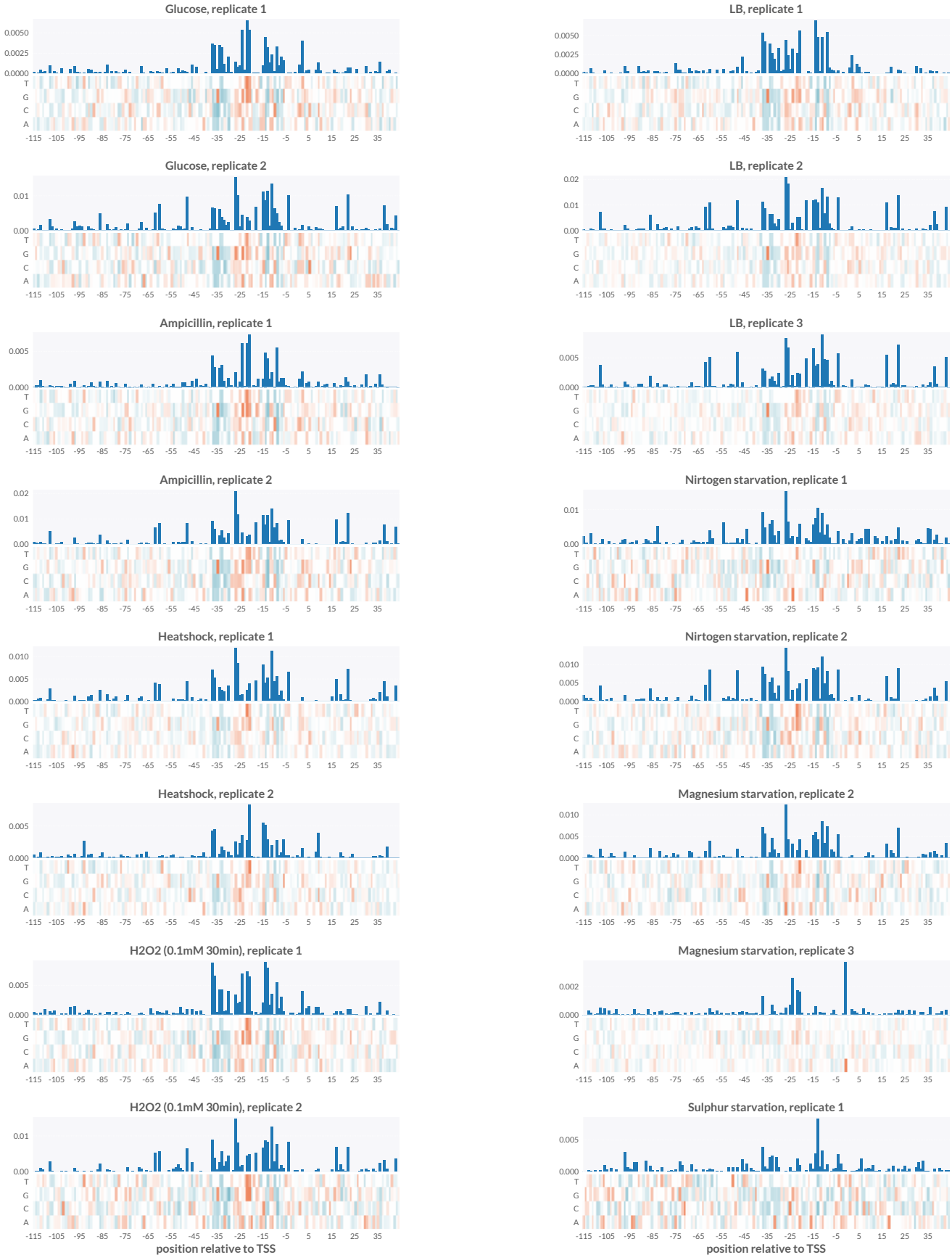

LB + 0.75M NaCl, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Galactose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

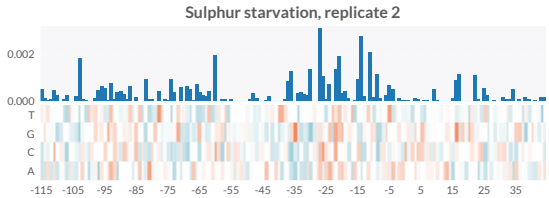
mhpRp2

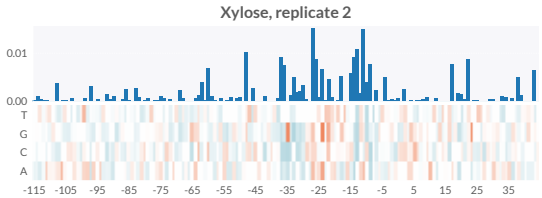

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

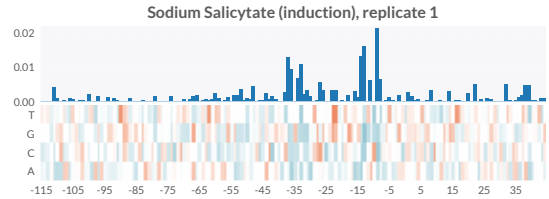
mprAp

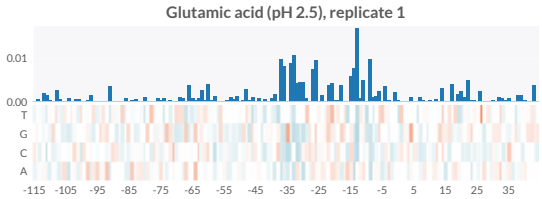

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

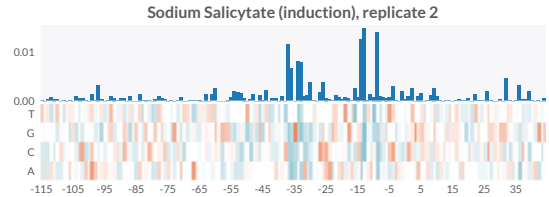
mprAp

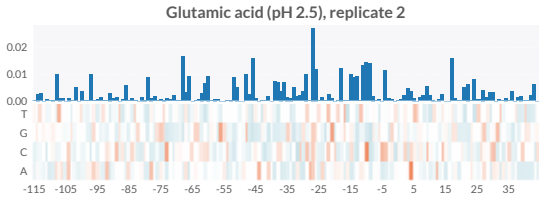

Sulphur starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

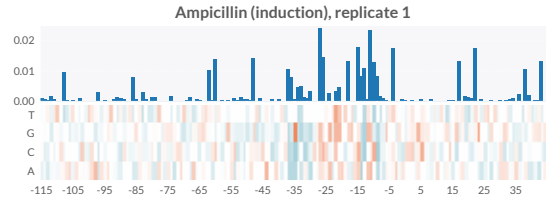

Xylose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

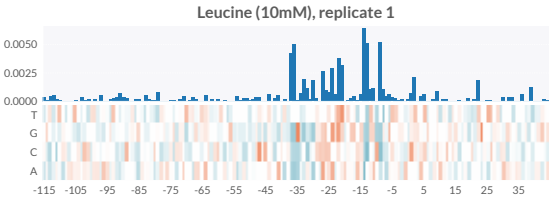

Sodium Salicytate (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

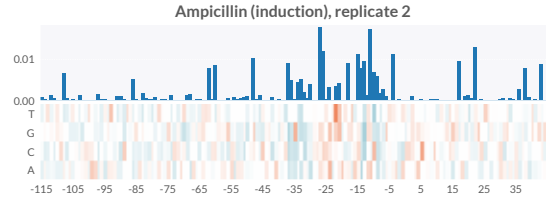

Glutamic acid (pH 2.5), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

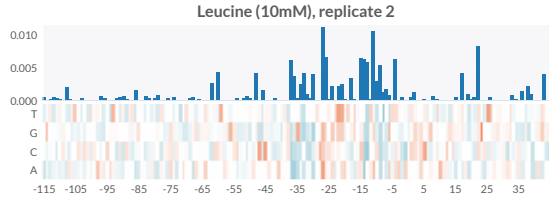

Sodium Salicytate (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

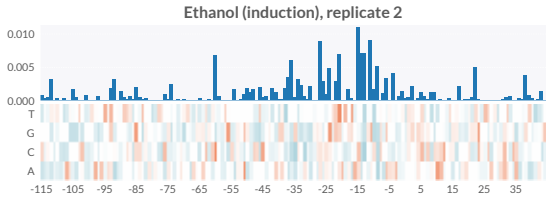

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

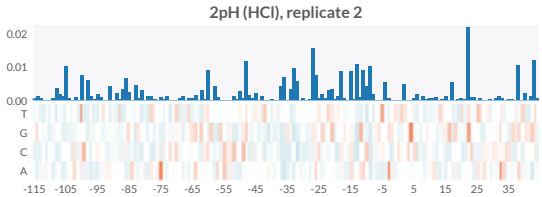

Ampicillin (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

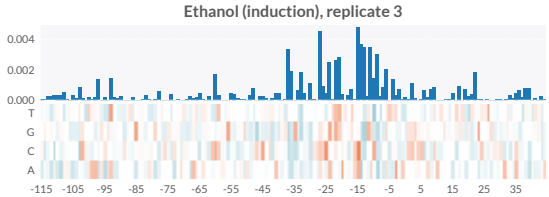

Leucine (10mM), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

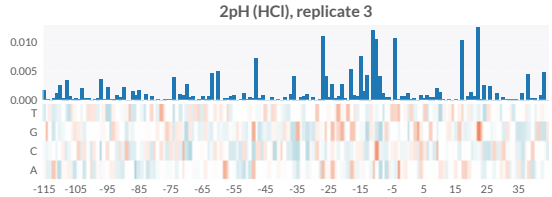

Ampicillin (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

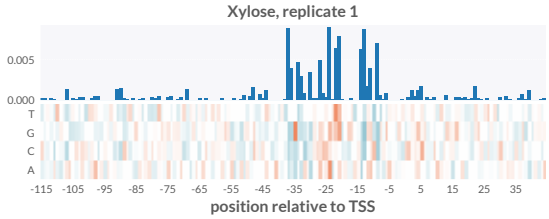

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

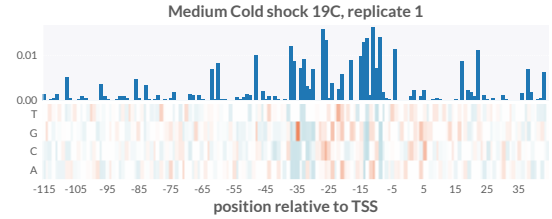

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

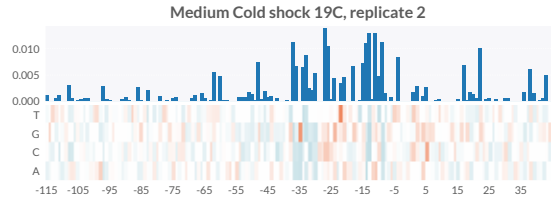

Ethanol (induction), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

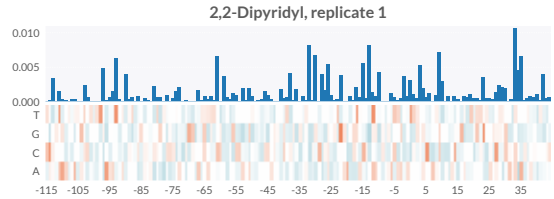

2pH (HCl), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

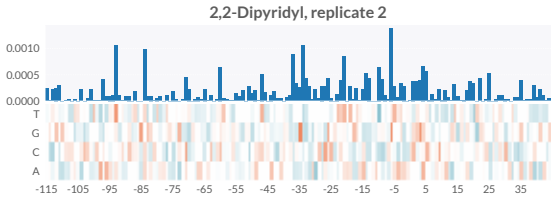

Xylose, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

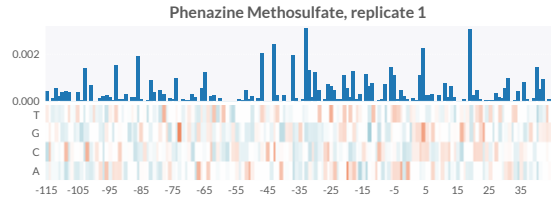

Medium Cold shock 19C, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

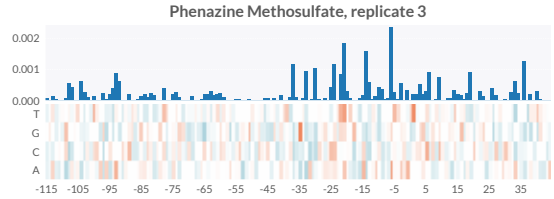
mprAp

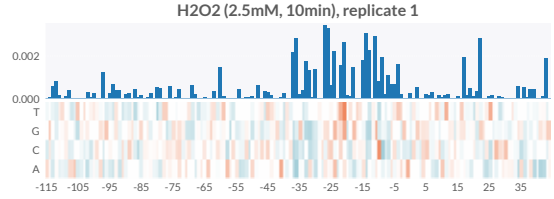

Medium Cold shock 19C, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

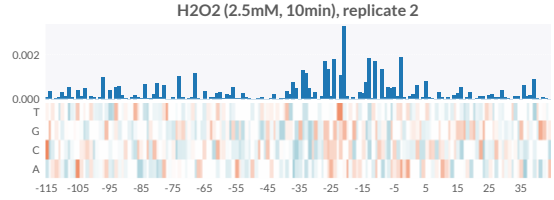

2,2-Dipyridyl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

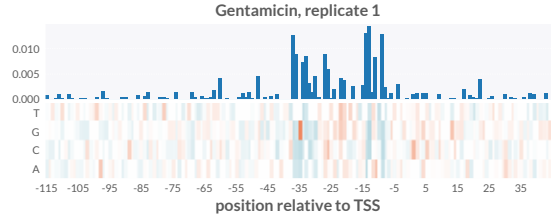

2,2-Dipyridyl, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

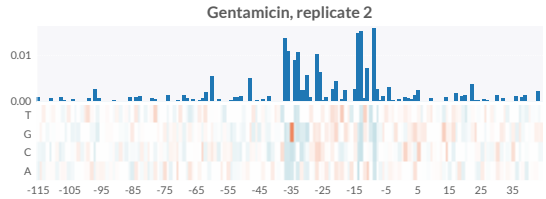

Phenazine Methosulfate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

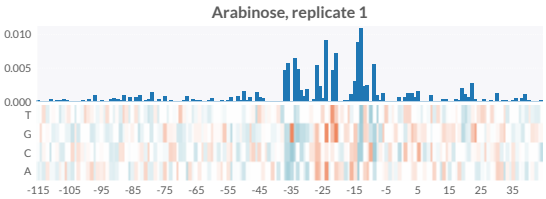

Phenazine Methosulfate, replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

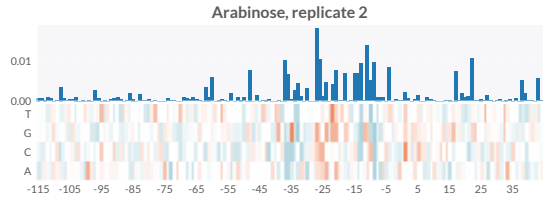

H2O2 (2.5mM, 10min), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

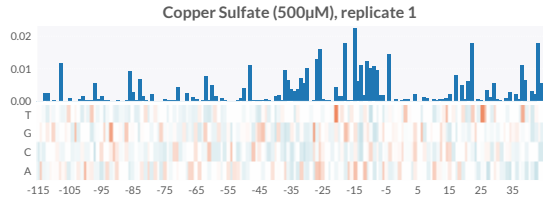

H2O2 (2.5mM, 10min), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

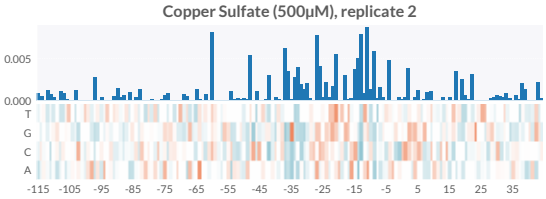

Gentamicin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

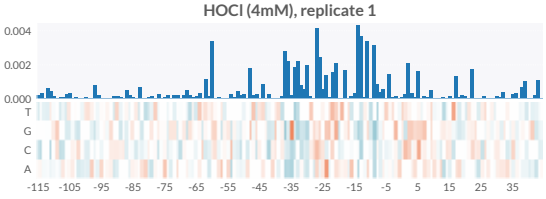

Gentamicin, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

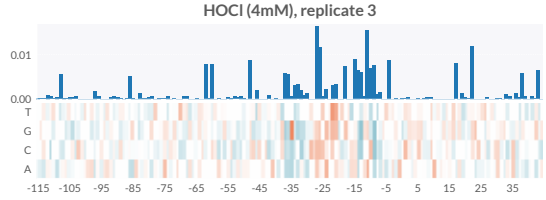

Arabinose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

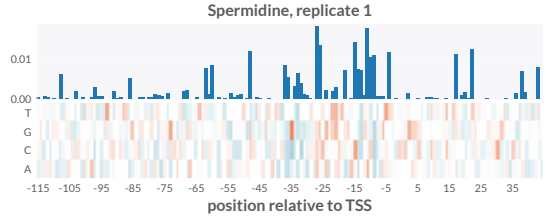

Arabinose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Copper Sulfate (500µM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Copper Sulfate (500µM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

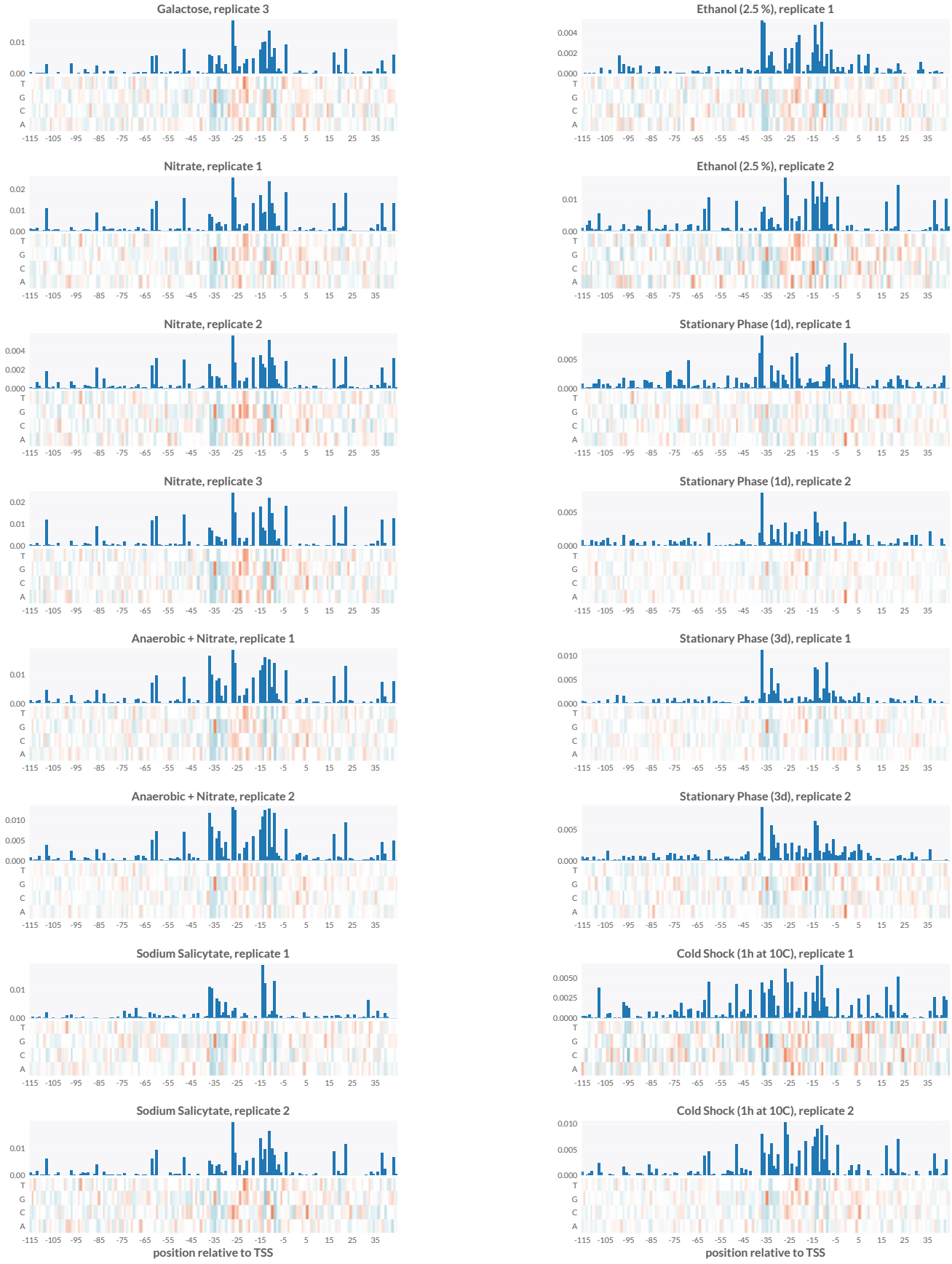

HOCl (4mM), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Spermidine, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

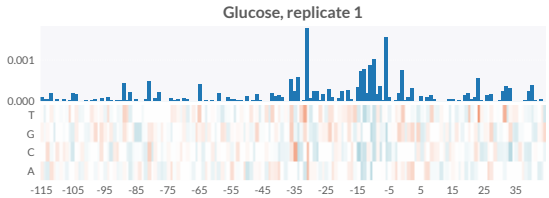
mprAp

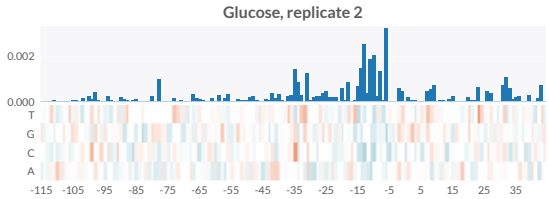

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

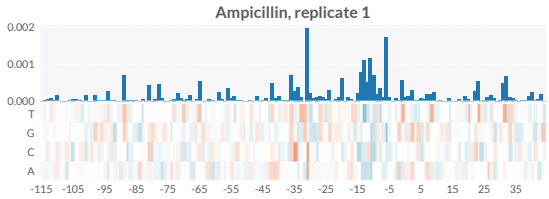
mprAp

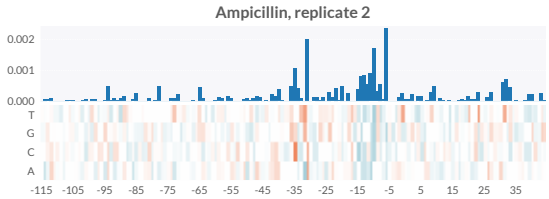

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

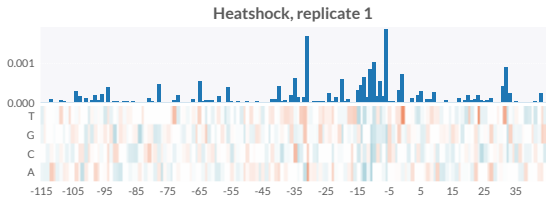
mtnp

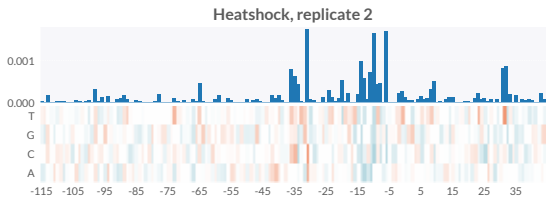

Glucose, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

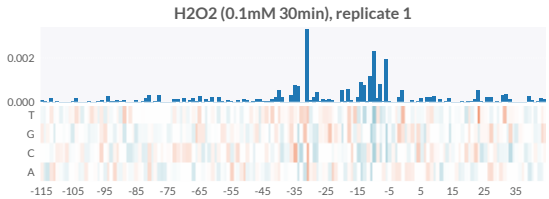

Glucose, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

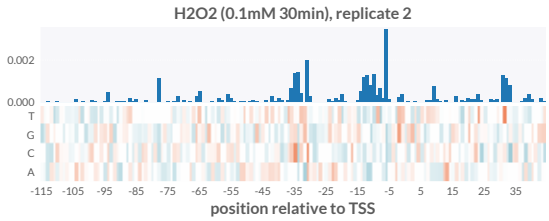

Ampicillin, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

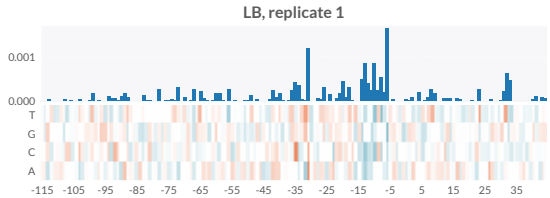

Ampicillin, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

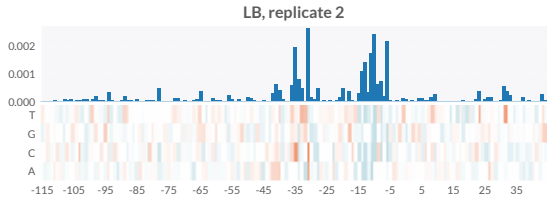

Heatshock, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

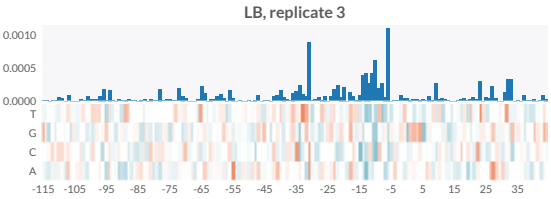

Heatshock, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

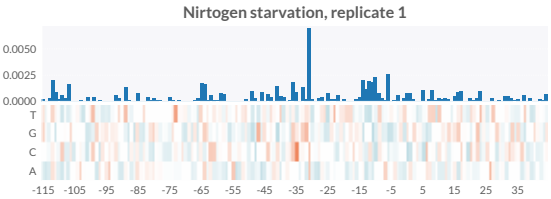

H2O2 (0.1mM 30min), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

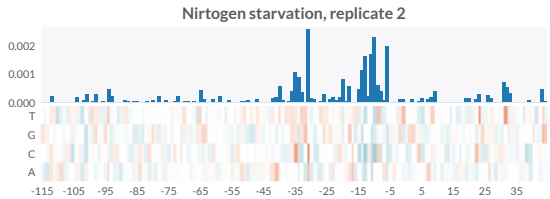

H2O2 (0.1mM 30min), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

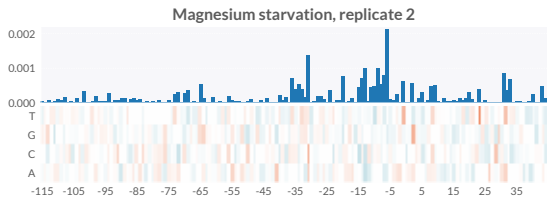

LB, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

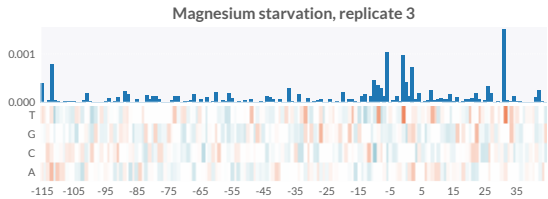

LB, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

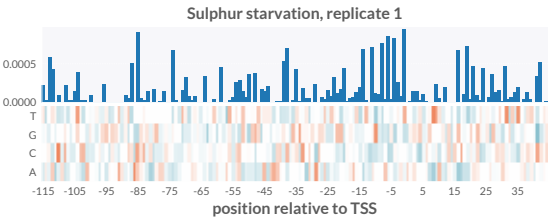

LB, replicate 3
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Nirtogen starvation, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

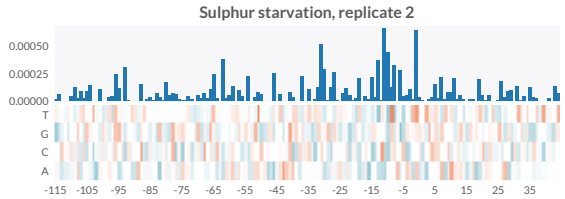

Nirtogen starvation, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

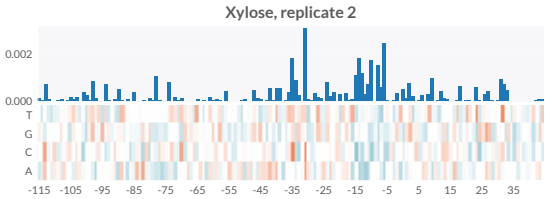

Magnesium starvation, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

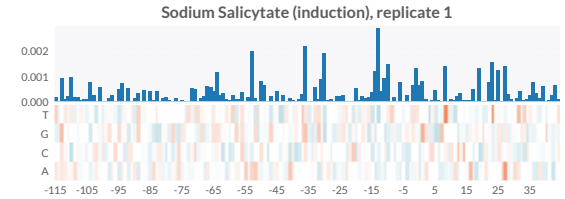

Magnesium starvation, replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

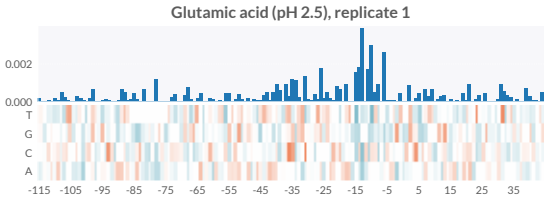

Sulphur starvation, replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

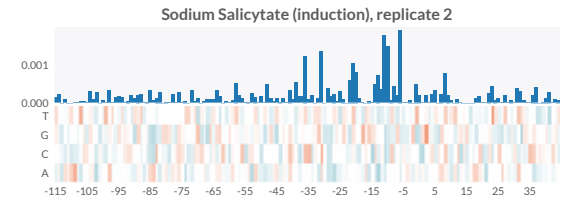
mtnp

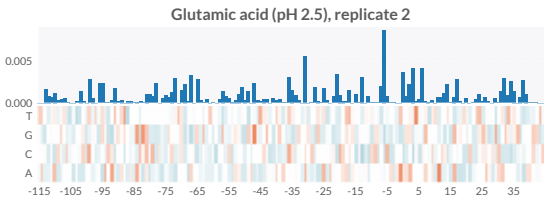

Sulphur starvation, replicate 2
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

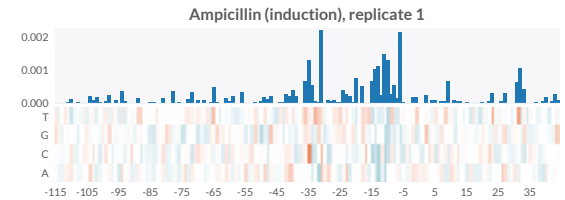

Xylose, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

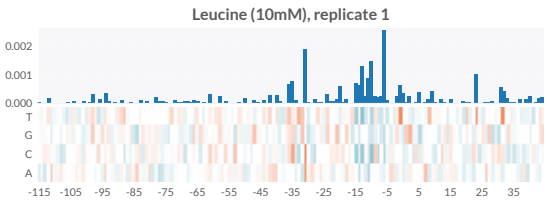

Sodium Salicytate (induction), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

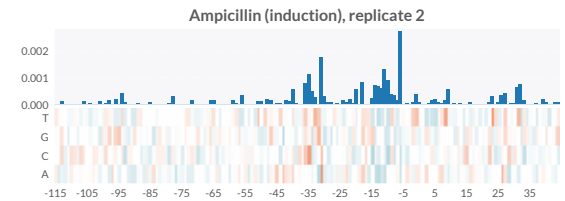

Glutamic acid (pH 2.5), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

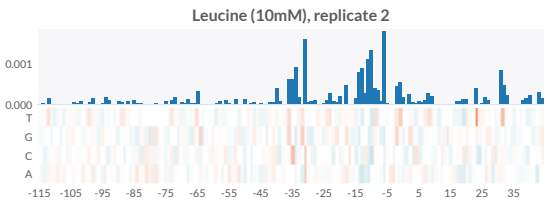

Sodium Salicytate (induction), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

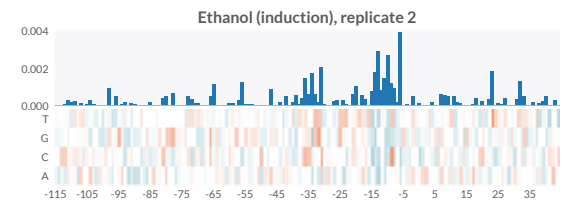

Glutamic acid (pH 2.5), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

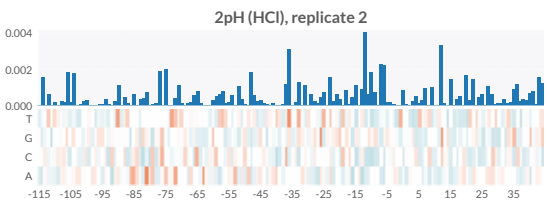

Ampicillin (induction), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

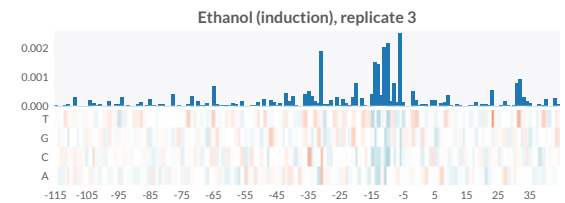

Leucine (10mM), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

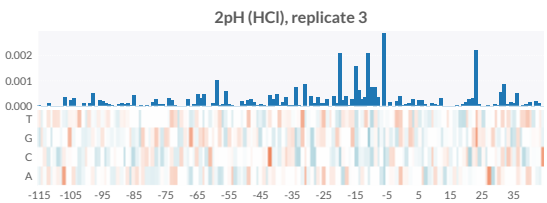

Ampicillin (induction), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

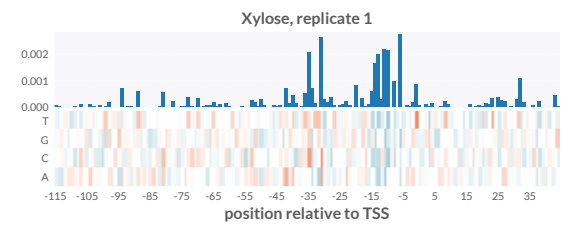

Leucine (10mM), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

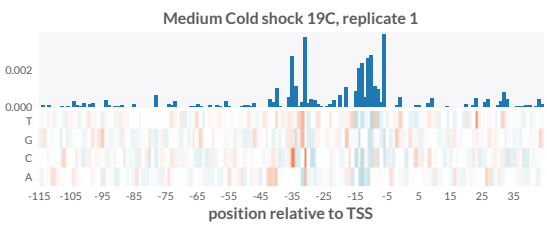

Ethanol (induction), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

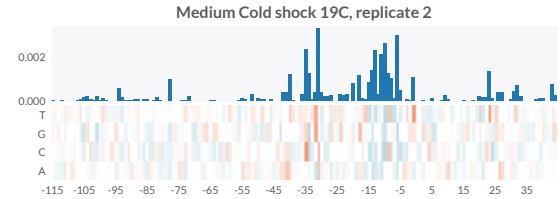

Ethanol (induction), replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

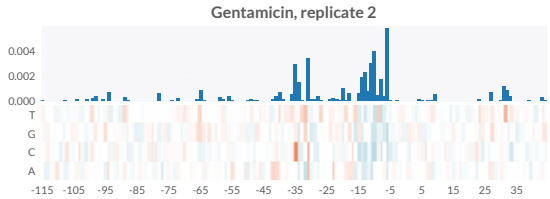

2pH (HCl), replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

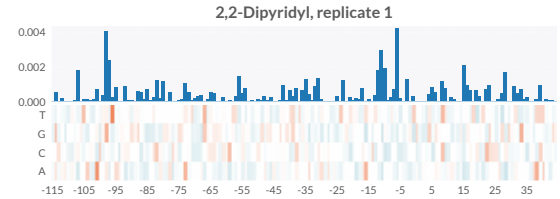

Xylose, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

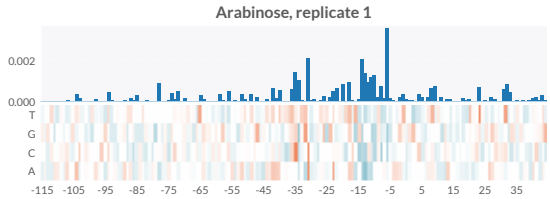

Medium Cold shock 19C, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

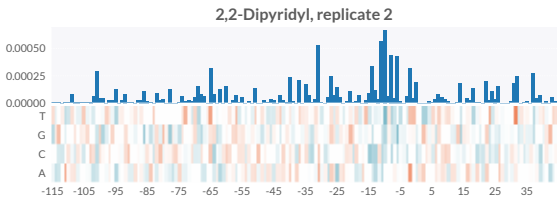
mtnp

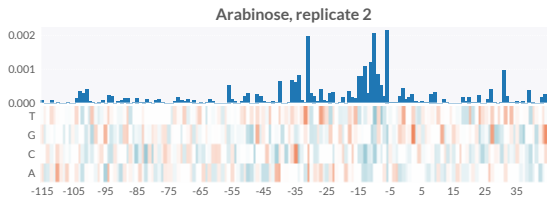

Medium Cold shock 19C, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

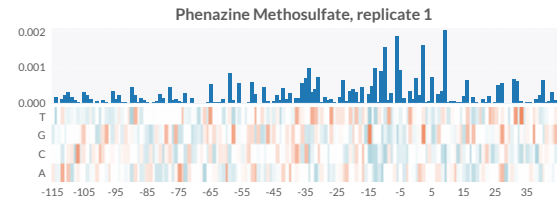

Gentamicin, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

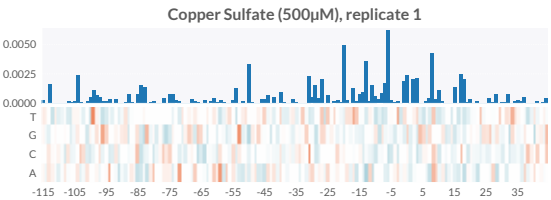

2,2-Dipyridyl, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

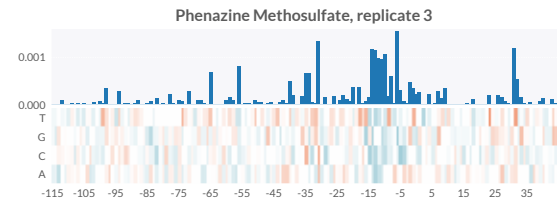

Arabinose, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

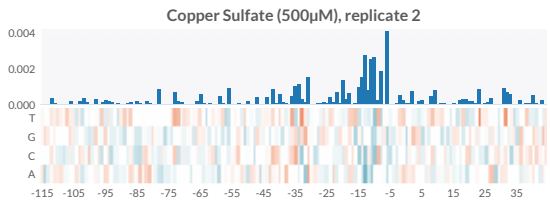

2,2-Dipyridyl, replicate 2
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

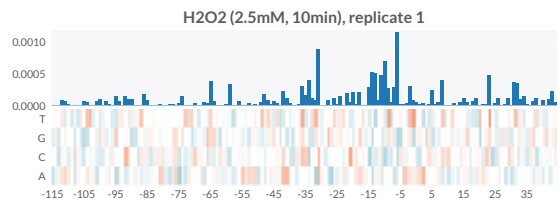

Arabinose, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

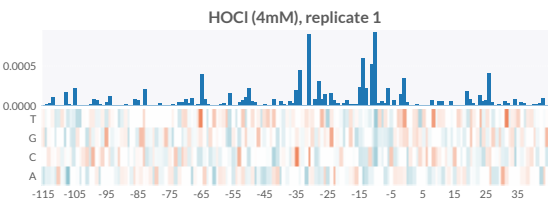

Phenazine Methosulfate, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

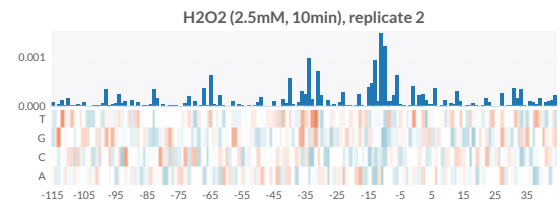

Copper Sulfate (500µM), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

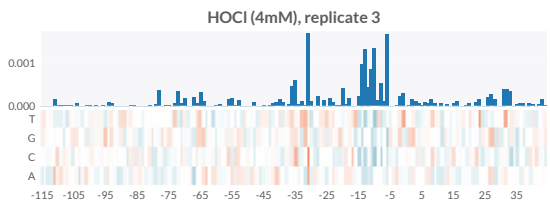

Phenazine Methosulfate, replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

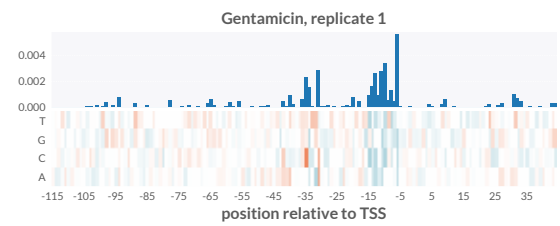

Copper Sulfate (500µM), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

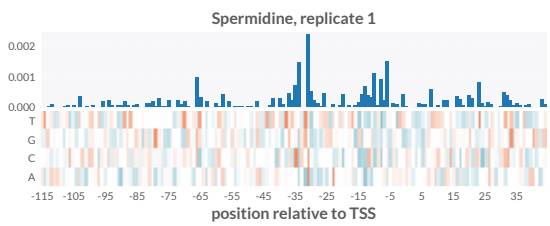

H2O2 (2.5mM, 10min), replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

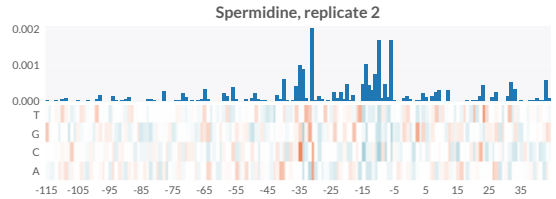

H2O2 (2.5mM, 10min), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

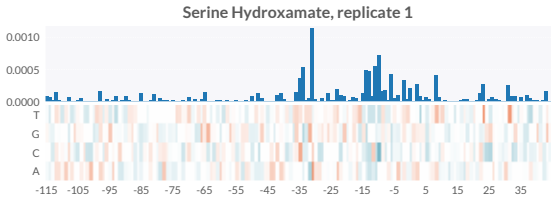

HOCl (4mM), replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

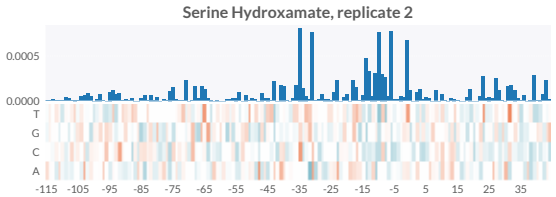

Gentamicin, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

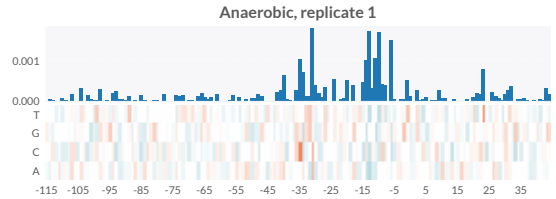

Spermidine, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

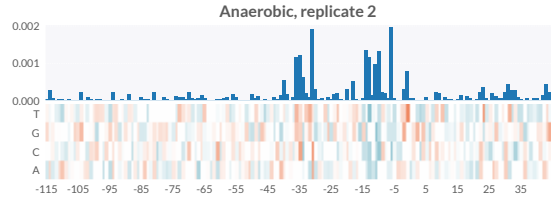
mtnp

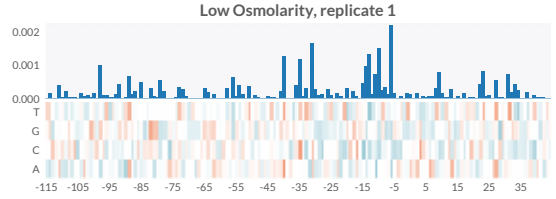

Spermidine, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

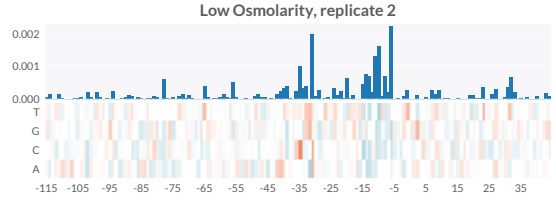

Serine Hydroxamate, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

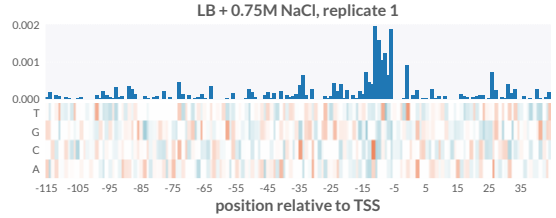

Serine Hydroxamate, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

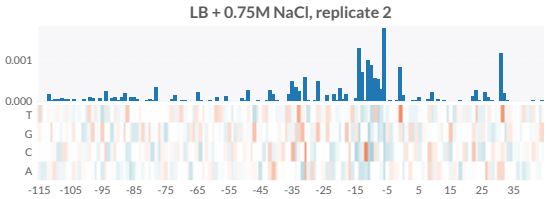

Anaerobic, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

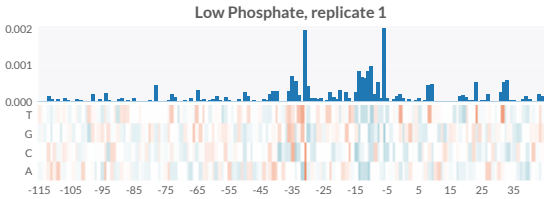

Anaerobic, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

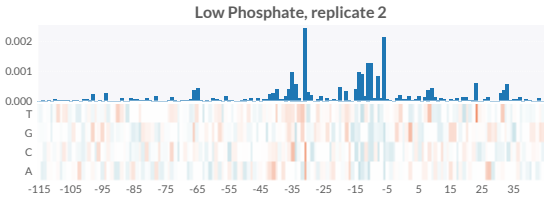

Low Osmolarity, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

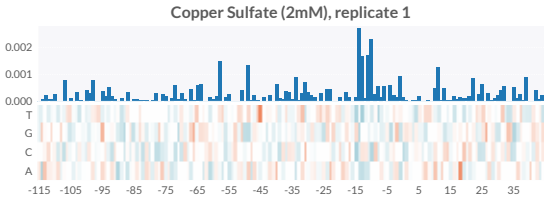

Low Osmolarity, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

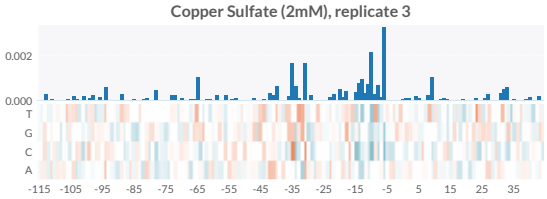

LB + 0.75M NaCl, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

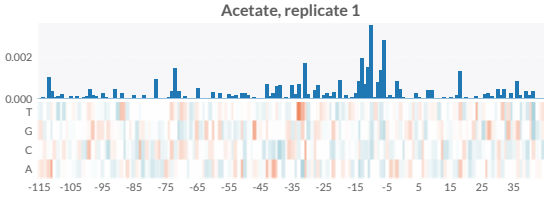

LB + 0.75M NaCl, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

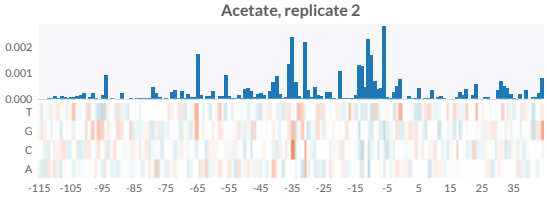

Low Phosphate, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

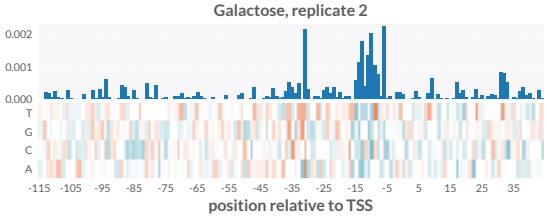

Low Phosphate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Copper Sulfate (2mM), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

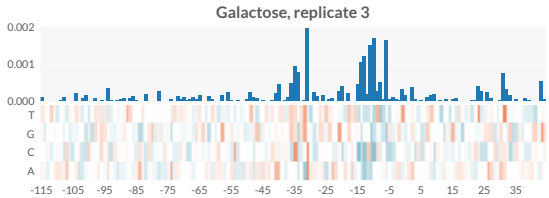

Copper Sulfate (2mM), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

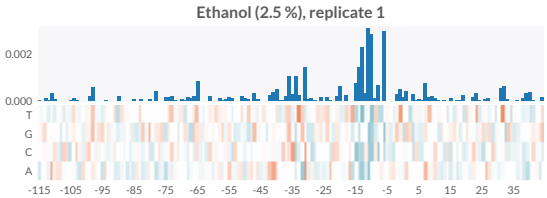

Acetate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

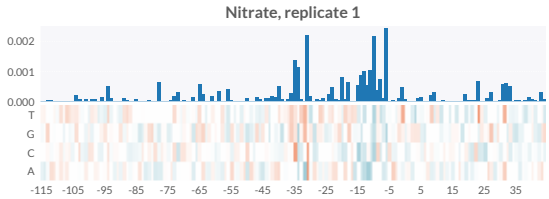

Acetate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

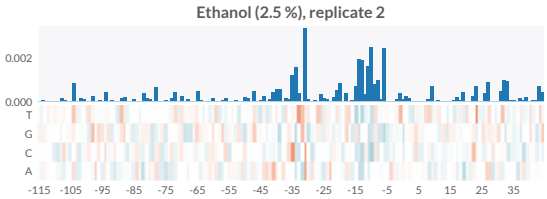

Galactose, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

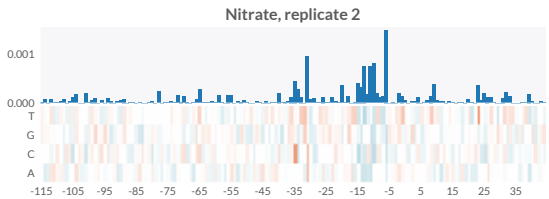
mtnp

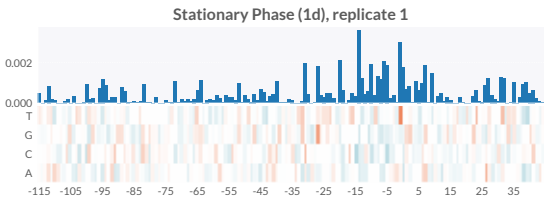

Galactose, replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

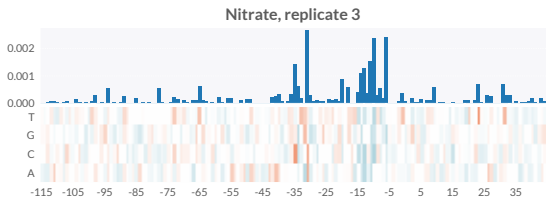

Ethanol (2.5 %), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

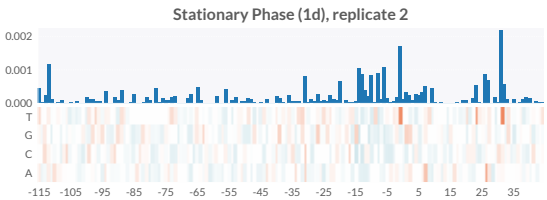

Nitrate, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

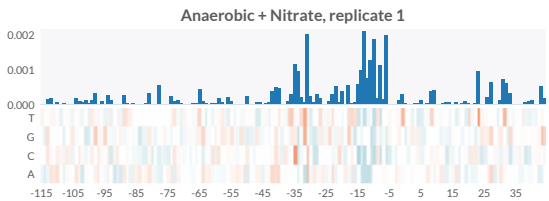

Ethanol (2.5 %), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

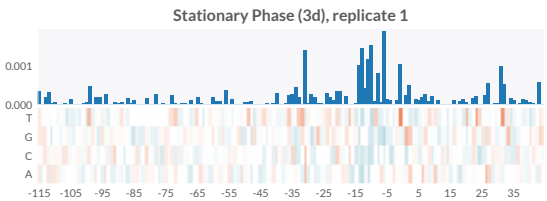

Nitrate, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

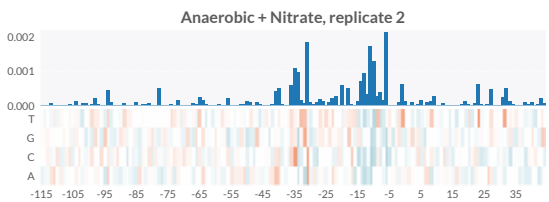

Stationary Phase (1d), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

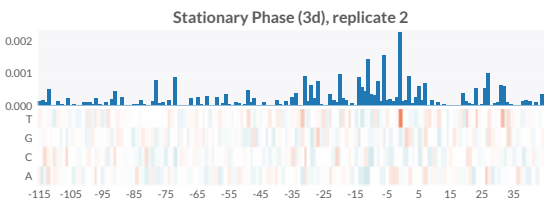

Nitrate, replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

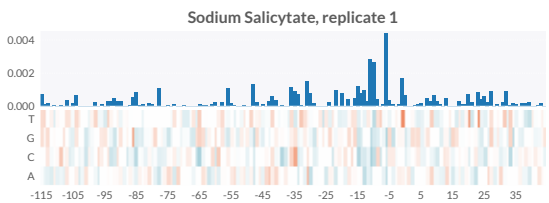

Stationary Phase (1d), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

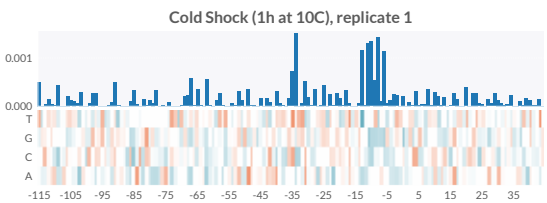

Anaerobic + Nitrate, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

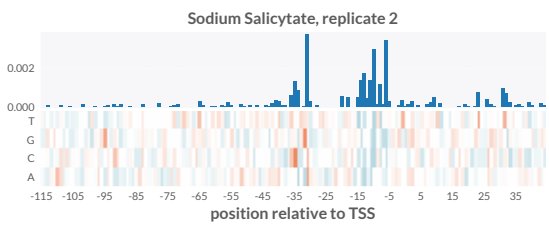

Stationary Phase (3d), replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

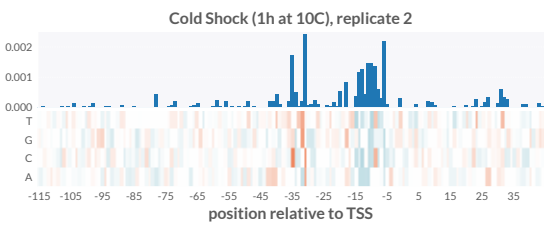

Anaerobic + Nitrate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

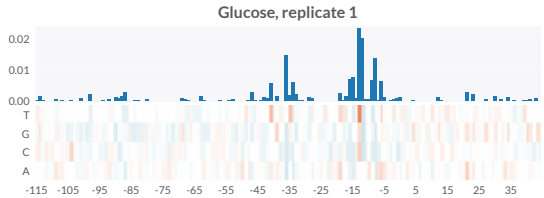

Sodium Salicytate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

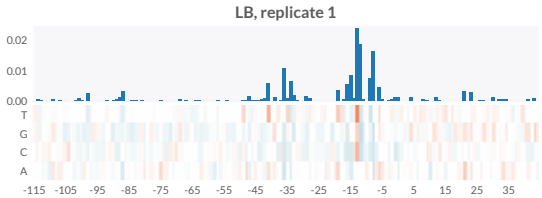

Cold Shock (1h at 10C), replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

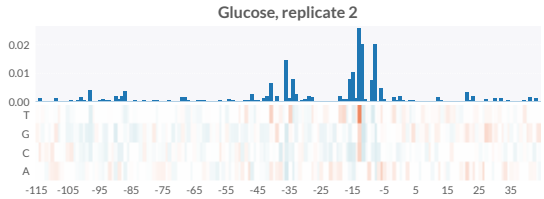

Sodium Salicytate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

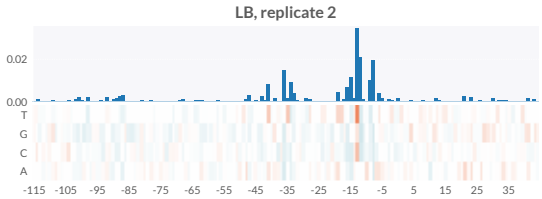

Cold Shock (1h at 10C), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

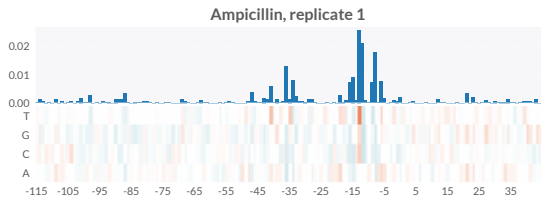
ompFp

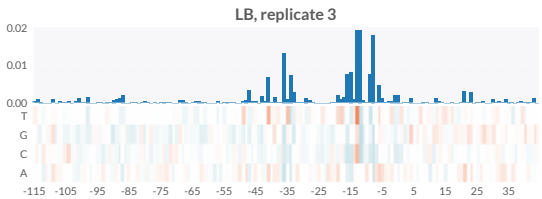

Glucose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

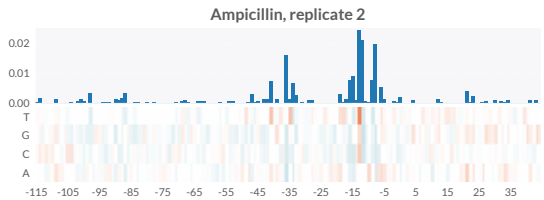

LB, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

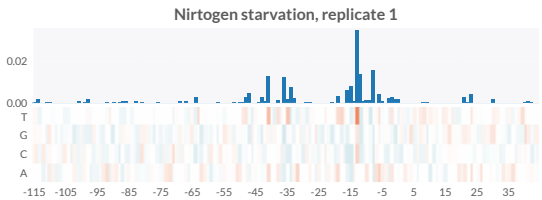

Glucose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

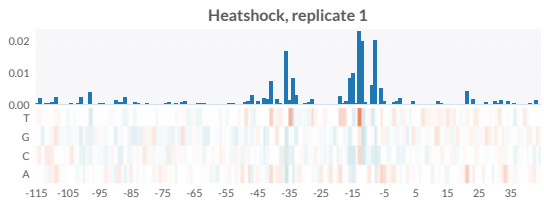

LB, replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

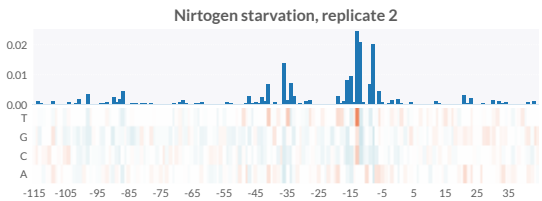

Ampicillin, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

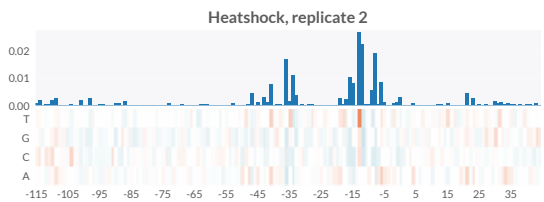

LB, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

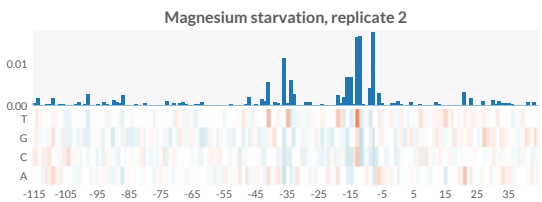

Ampicillin, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

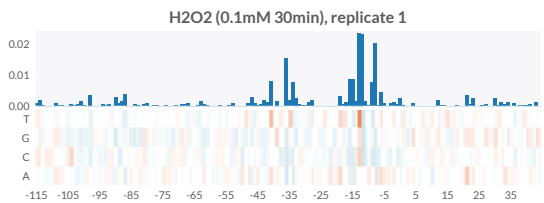

Nirtogen starvation, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

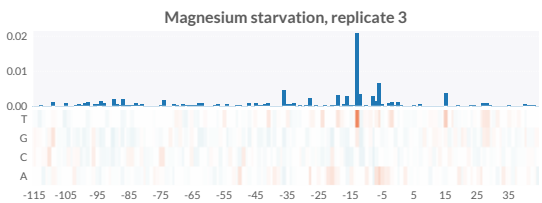

Heatshock, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

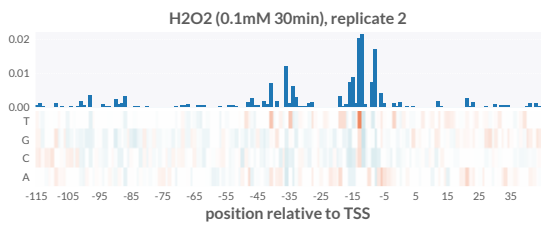

Nirtogen starvation, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

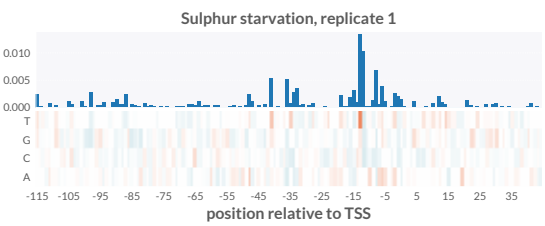

Heatshock, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

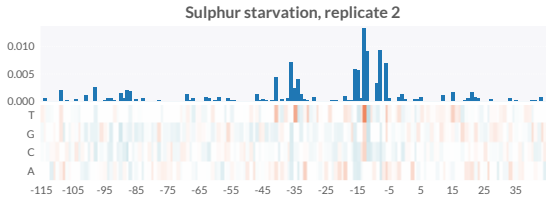

H2O2 (0.1mM 30min), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

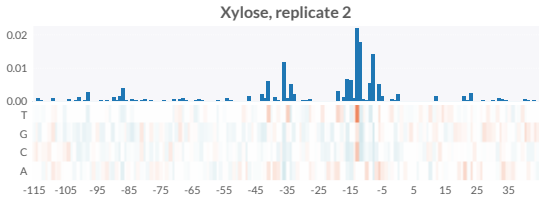

Magnesium starvation, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

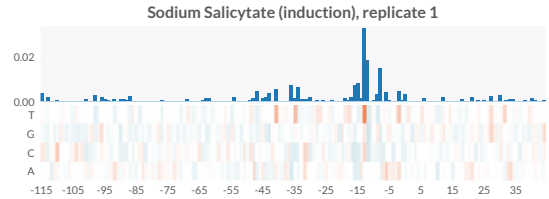

H2O2 (0.1mM 30min), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

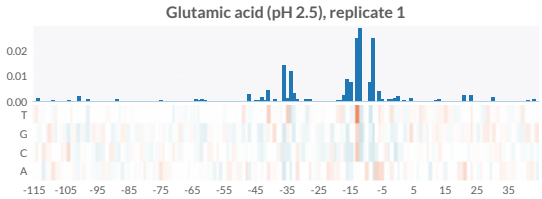

Sulphur starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

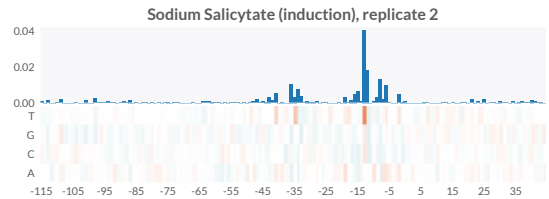
ompFp

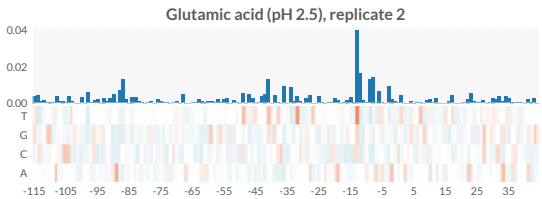

Sulphur starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

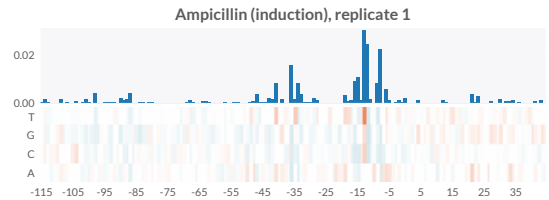

Xylose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

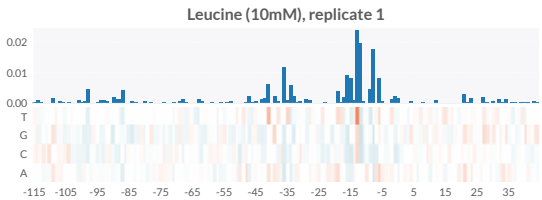

Sodium Salicytate (induction), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

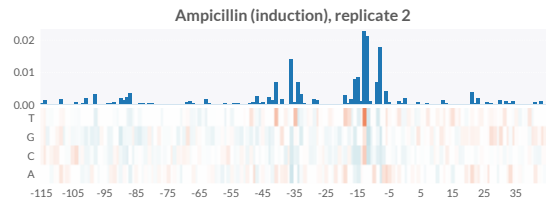

Glutamic acid (pH 2.5), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

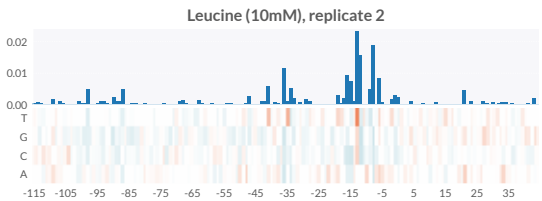

Sodium Salicytate (induction), replicate 2
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

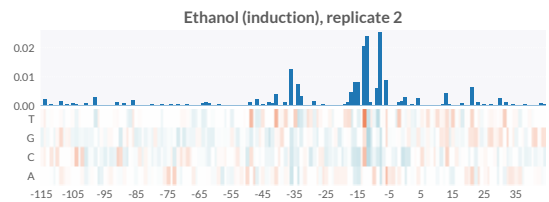

Glutamic acid (pH 2.5), replicate 2
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

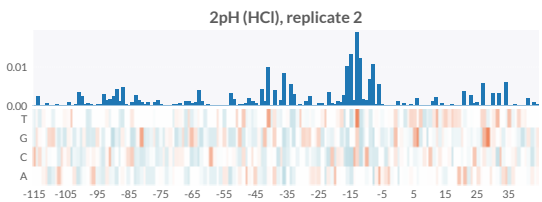

Ampicillin (induction), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

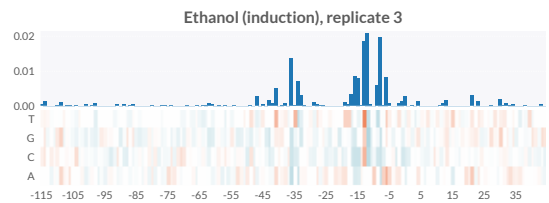

Leucine (10mM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

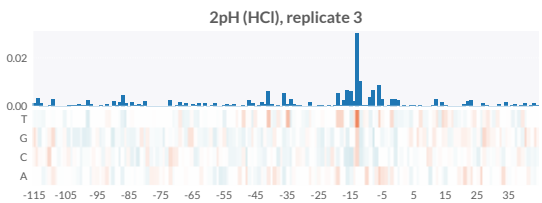

Ampicillin (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

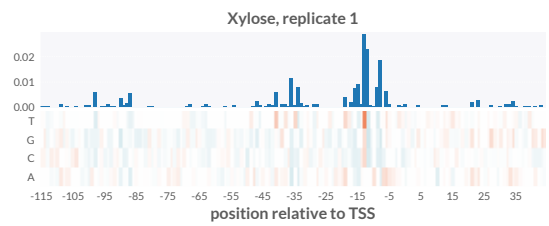

Leucine (10mM), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

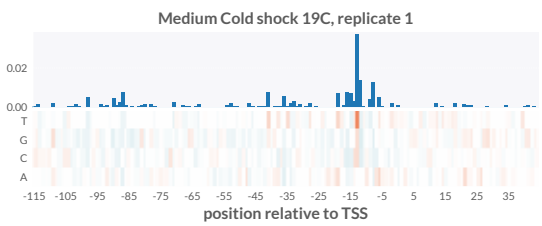

Ethanol (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

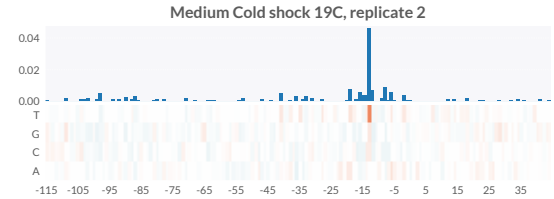

Ethanol (induction), replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

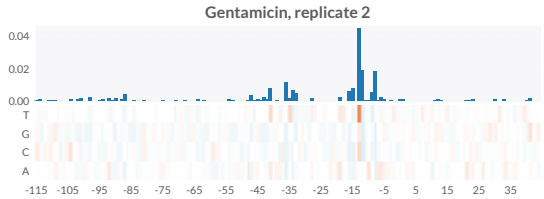

2pH (HCl), replicate 3
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

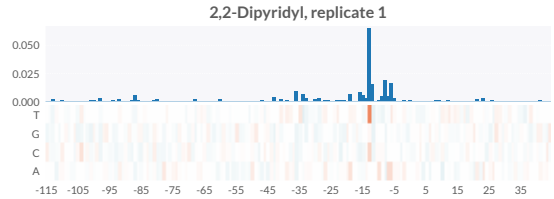

Xylose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

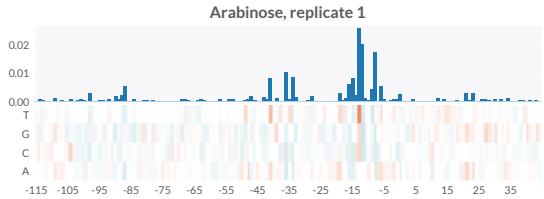

Medium Cold shock 19C, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

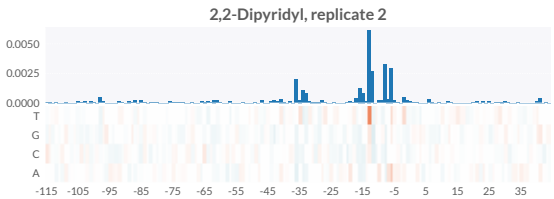
ompFp

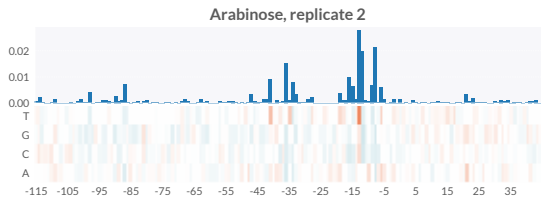

Medium Cold shock 19C, replicate 2
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

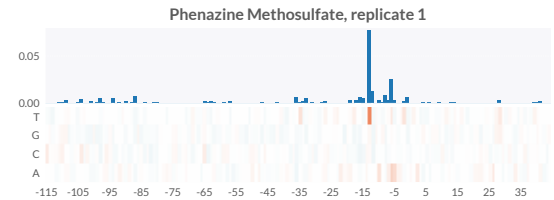

Gentamicin, replicate 2
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

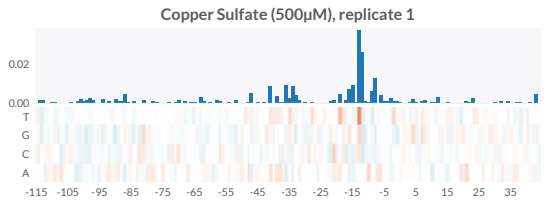

2,2-Dipyridyl, replicate 1
0.050
0.025
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

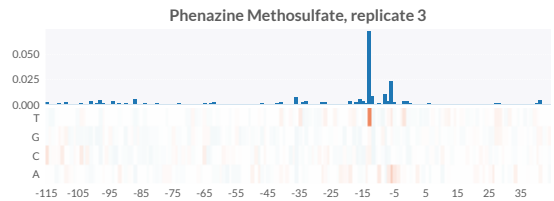

Arabinose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

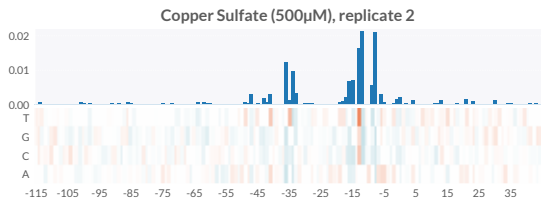

2,2-Dipyridyl, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

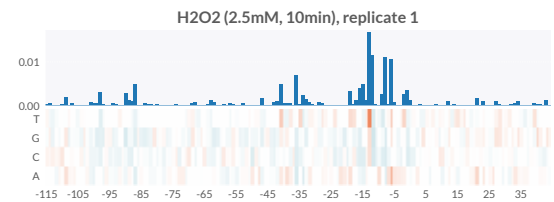

Arabinose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

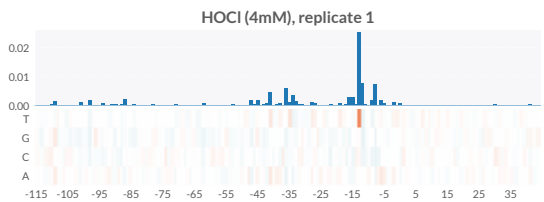

Phenazine Methosulfate, replicate 1
0.05
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

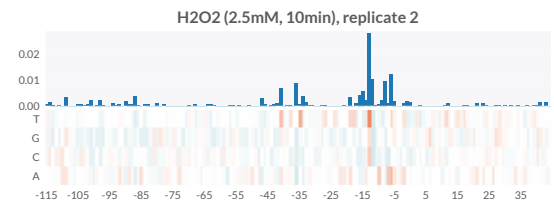

Copper Sulfate (500µM), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

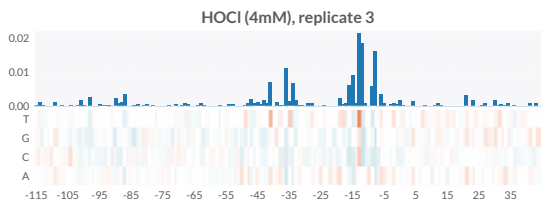

Phenazine Methosulfate, replicate 3
0.050
0.025
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

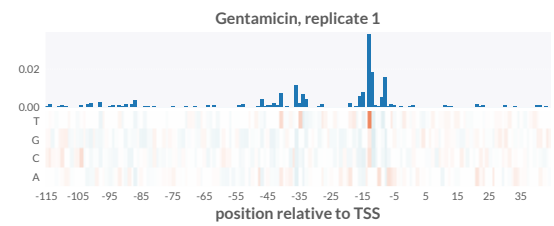

Copper Sulfate (500µM), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

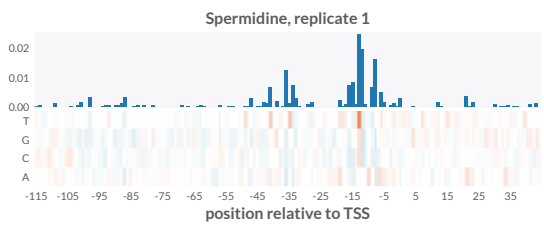

H2O2 (2.5mM, 10min), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

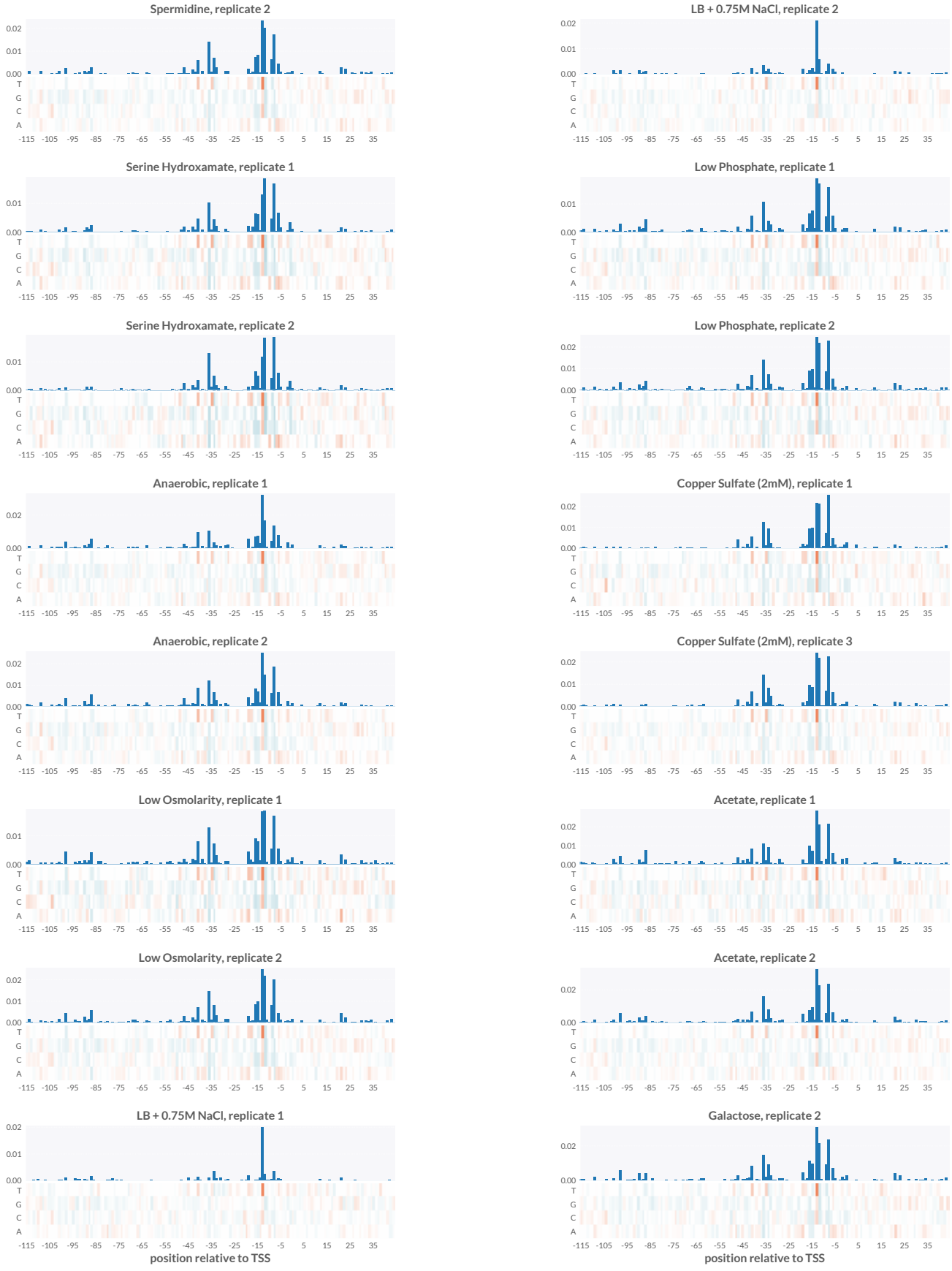

H2O2 (2.5mM, 10min), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

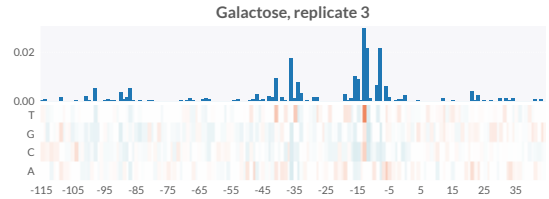

Gentamicin, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

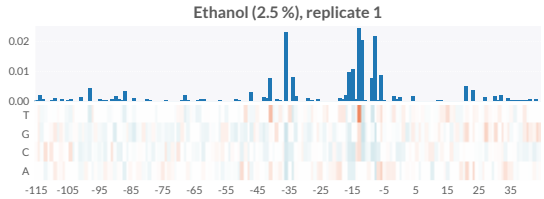

Spermidine, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

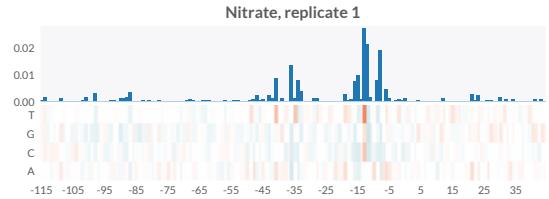
ompFp

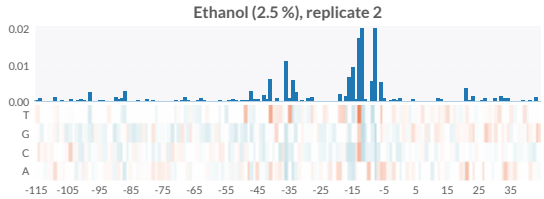

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
position relative to TSS
position relative to TSS

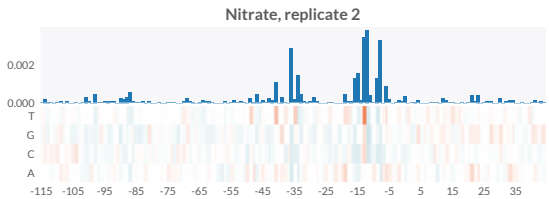
ompFp

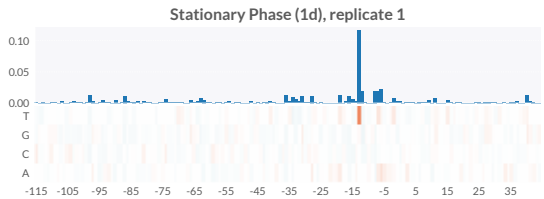

Galactose, replicate 3
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

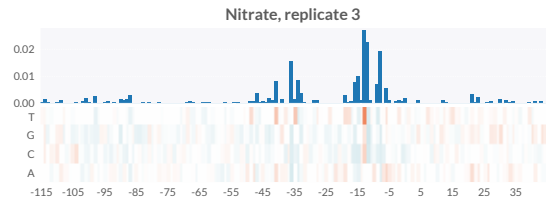

Ethanol (2.5 %), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

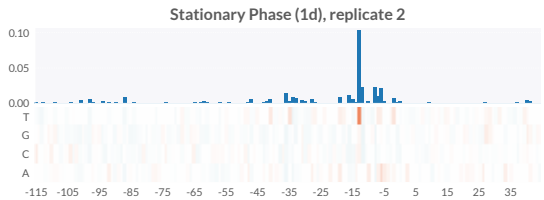

Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

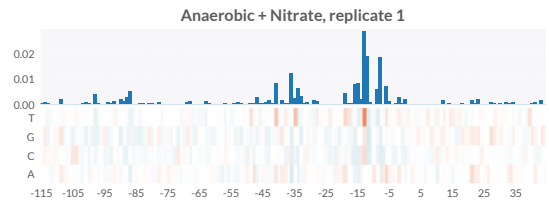

Ethanol (2.5 %), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

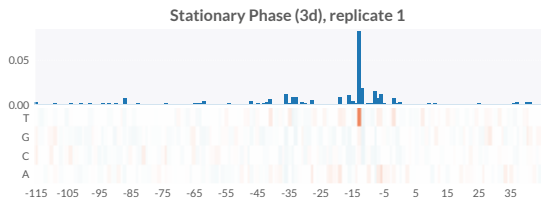

Nitrate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

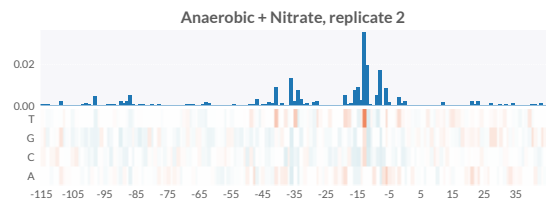

Stationary Phase (1d), replicate 1
0.10
0.05
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

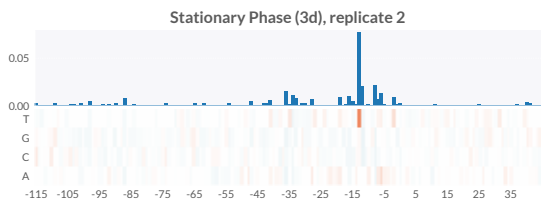

Nitrate, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

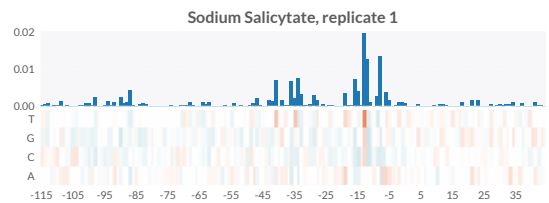

Stationary Phase (1d), replicate 2
0.10
0.05
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

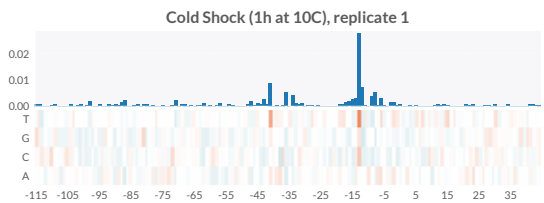

Anaerobic + Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

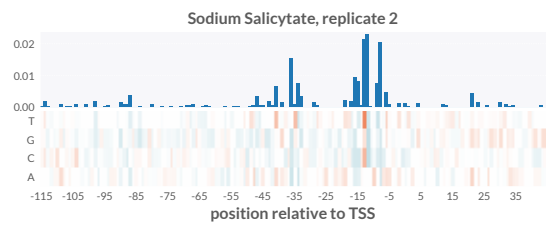

Stationary Phase (3d), replicate 1
0.05
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

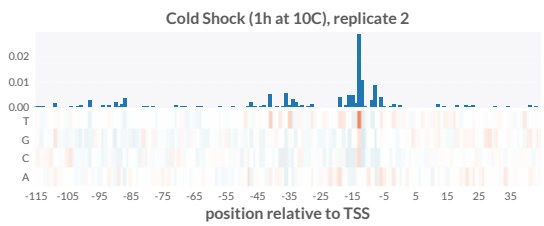

Anaerobic + Nitrate, replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.05
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Sodium Salicytate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

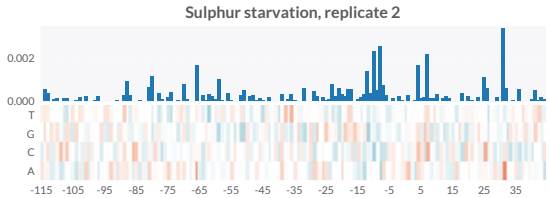

Sodium Salicytate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

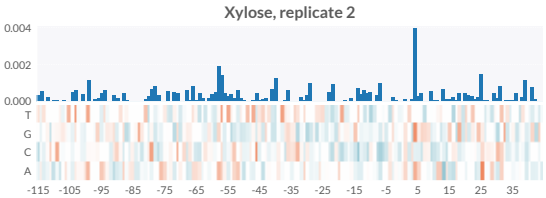

Cold Shock (1h at 10C), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

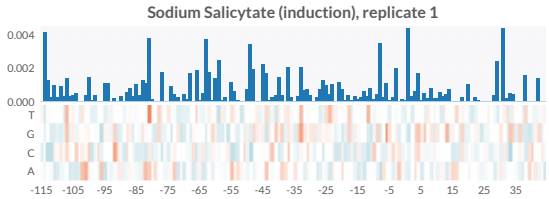
ompRp1

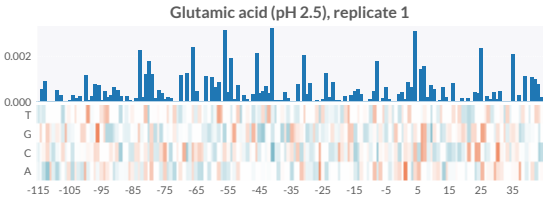

Glucose, replicate 1
Glucose, replicate 2
Ampicillin, replicate 1
Ampicillin, replicate 2
Heatshock, replicate 1
Heatshock, replicate 2
H2O2 (0.1mM 30min), replicate 1
H2O2 (0.1mM 30min), replicate 2
LB, replicate 1
LB, replicate 2
LB, replicate 3
Nirtogen starvation, replicate 1
Nirtogen starvation, replicate 2
Magnesium starvation, replicate 2
Magnesium starvation, replicate 3
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

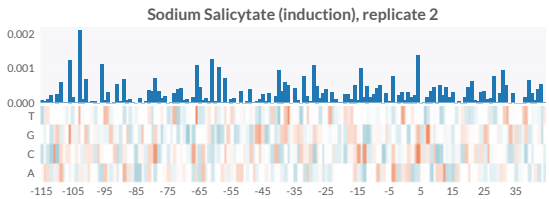
ompRp1

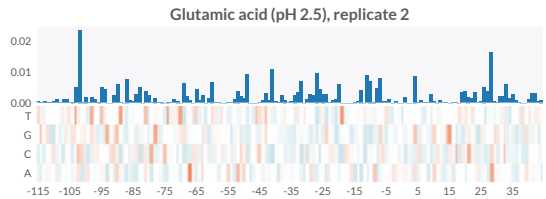

Sulphur starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

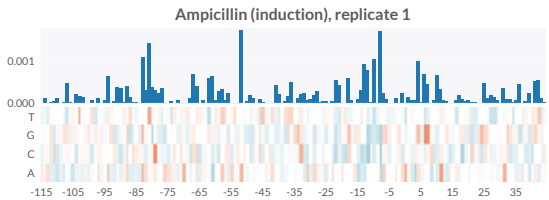

Xylose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

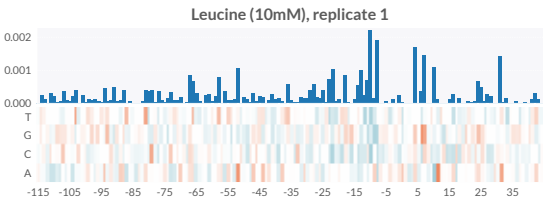

Sodium Salicytate (induction), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

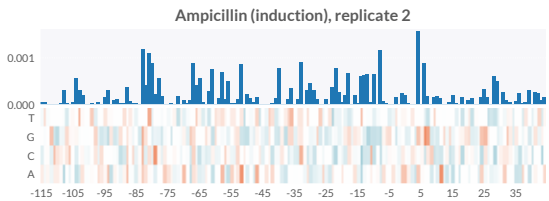

Glutamic acid (pH 2.5), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

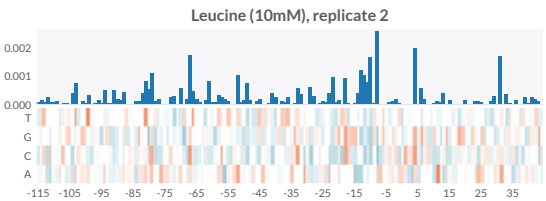

Sodium Salicytate (induction), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

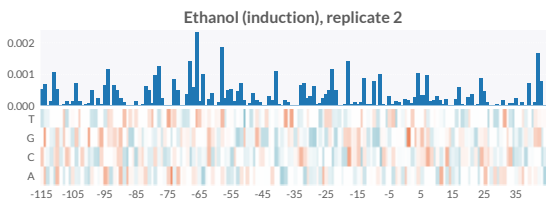

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

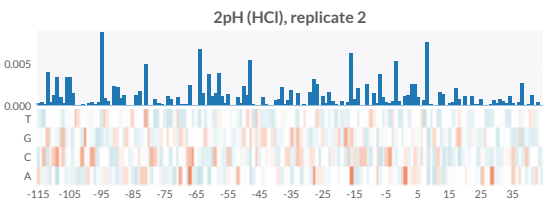

Ampicillin (induction), replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

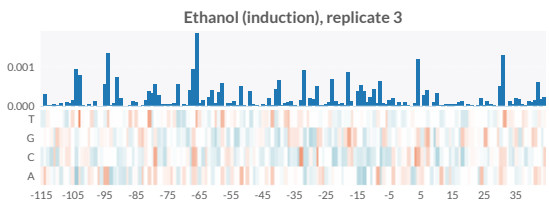

Leucine (10mM), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

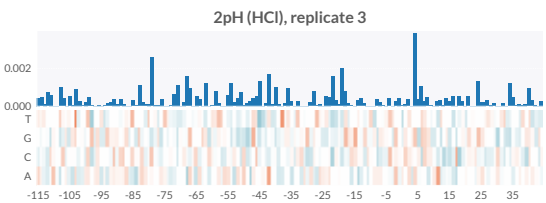

Ampicillin (induction), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

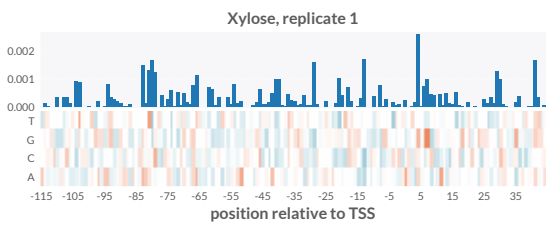

Leucine (10mM), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

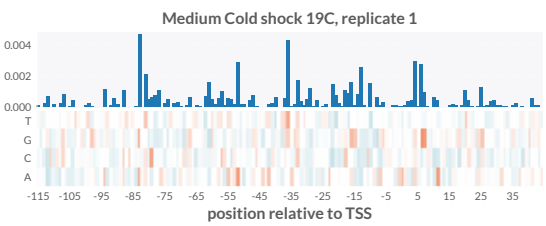

Ethanol (induction), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

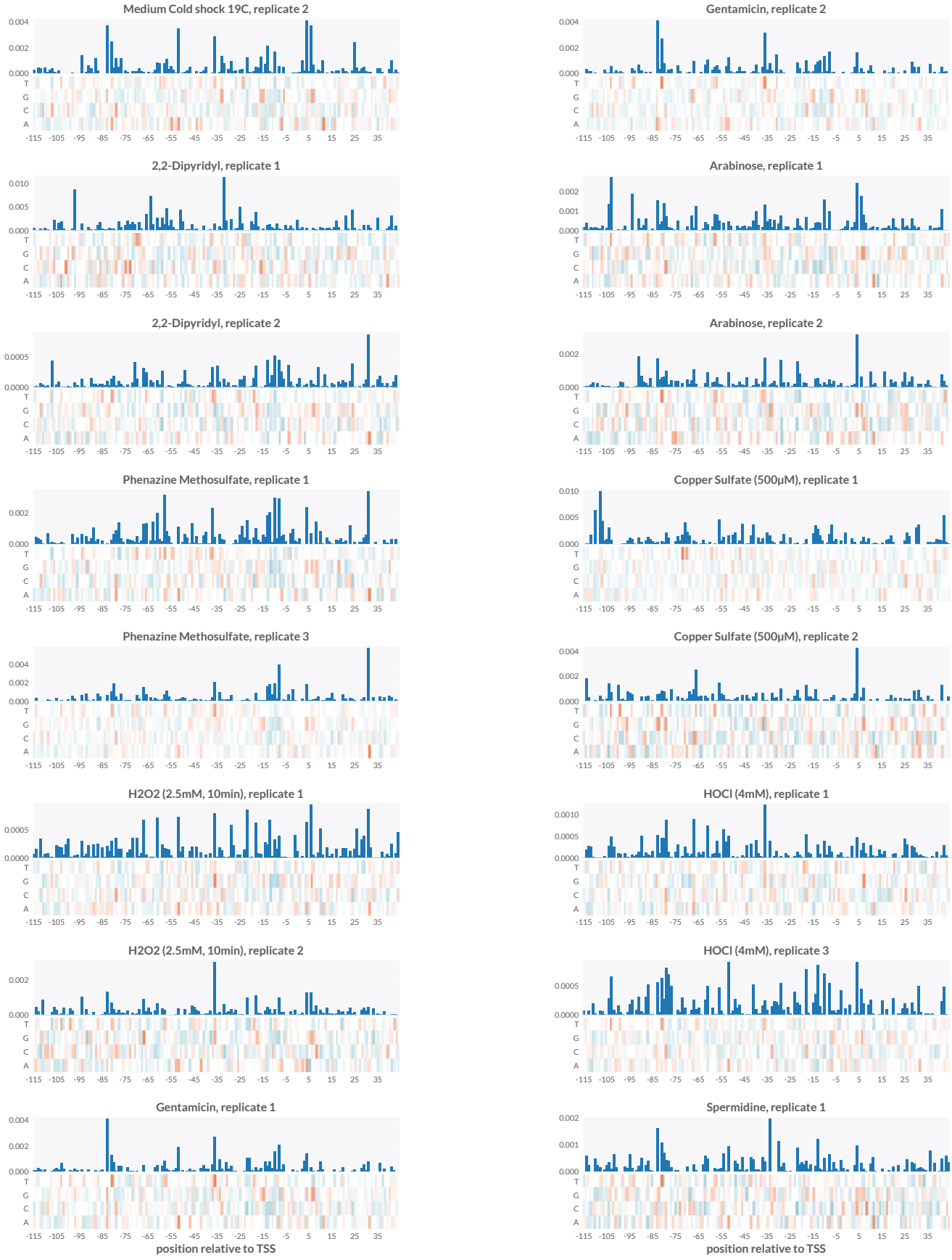

Ethanol (induction), replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

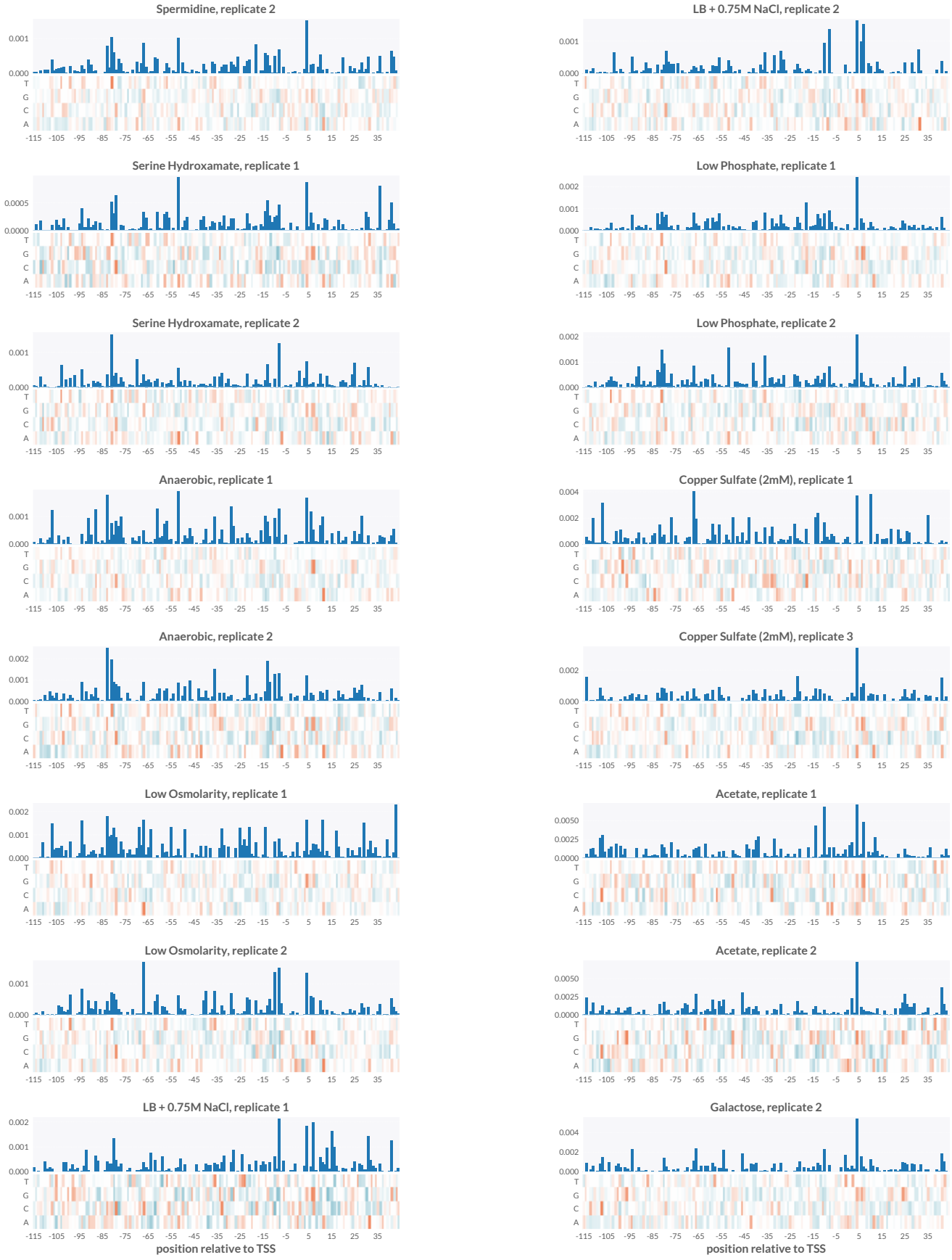

Xylose, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Medium Cold shock 19C, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

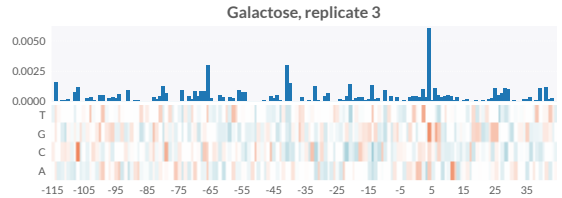
ompRp1

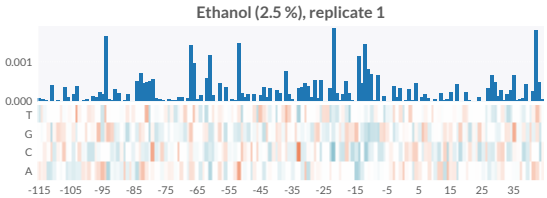

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

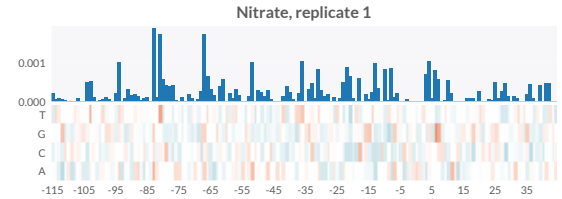
ompRp1

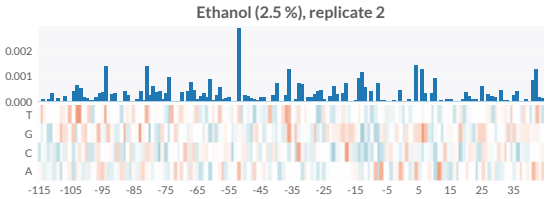

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

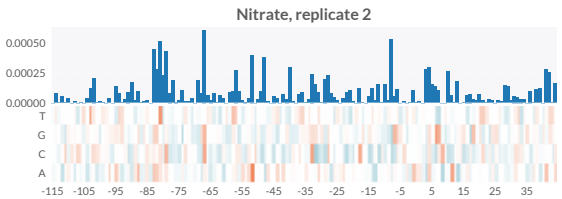
ompRp1

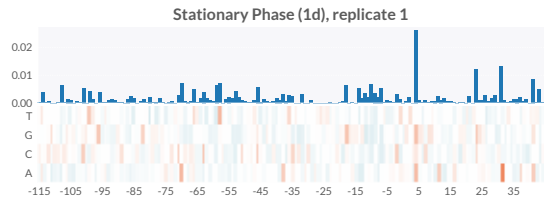

Galactose, replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

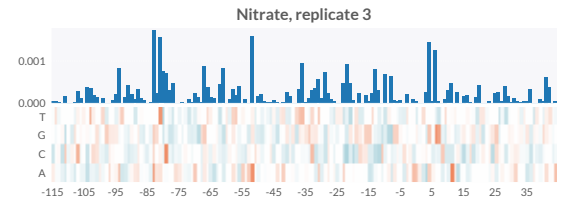

Ethanol (2.5 %), replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

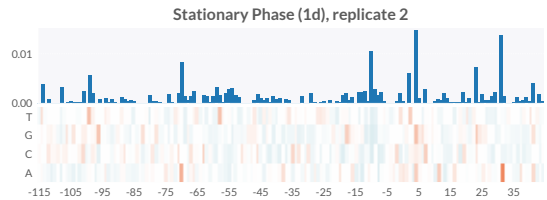

Nitrate, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

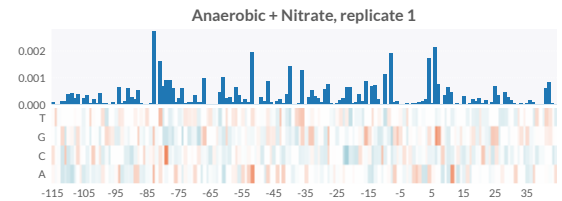

Ethanol (2.5 %), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

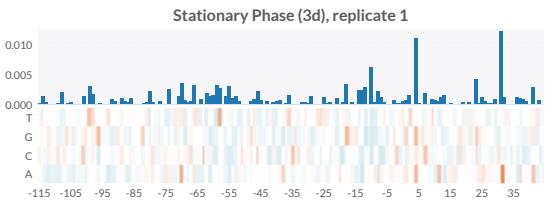

Nitrate, replicate 2
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

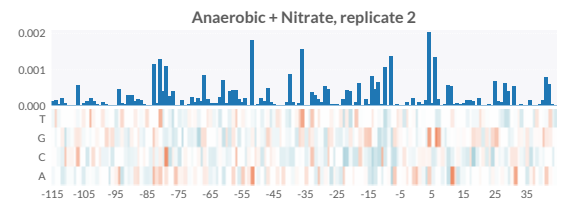

Stationary Phase (1d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

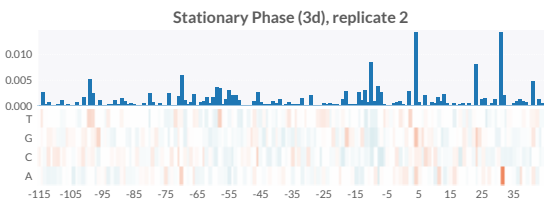

Nitrate, replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

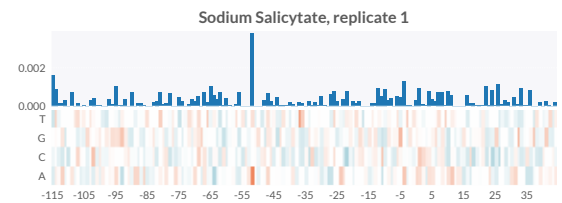

Stationary Phase (1d), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

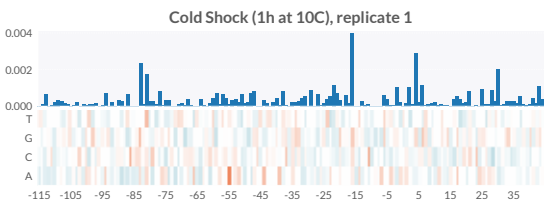

Anaerobic + Nitrate, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

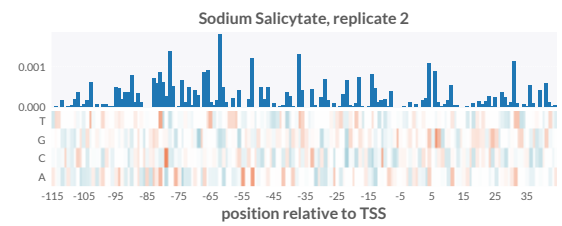

Stationary Phase (3d), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

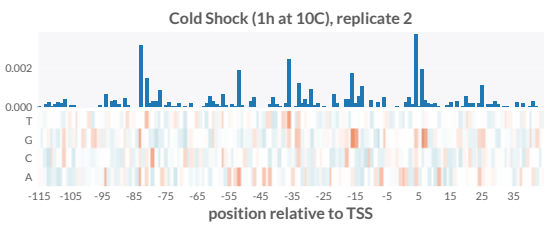

Anaerobic + Nitrate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

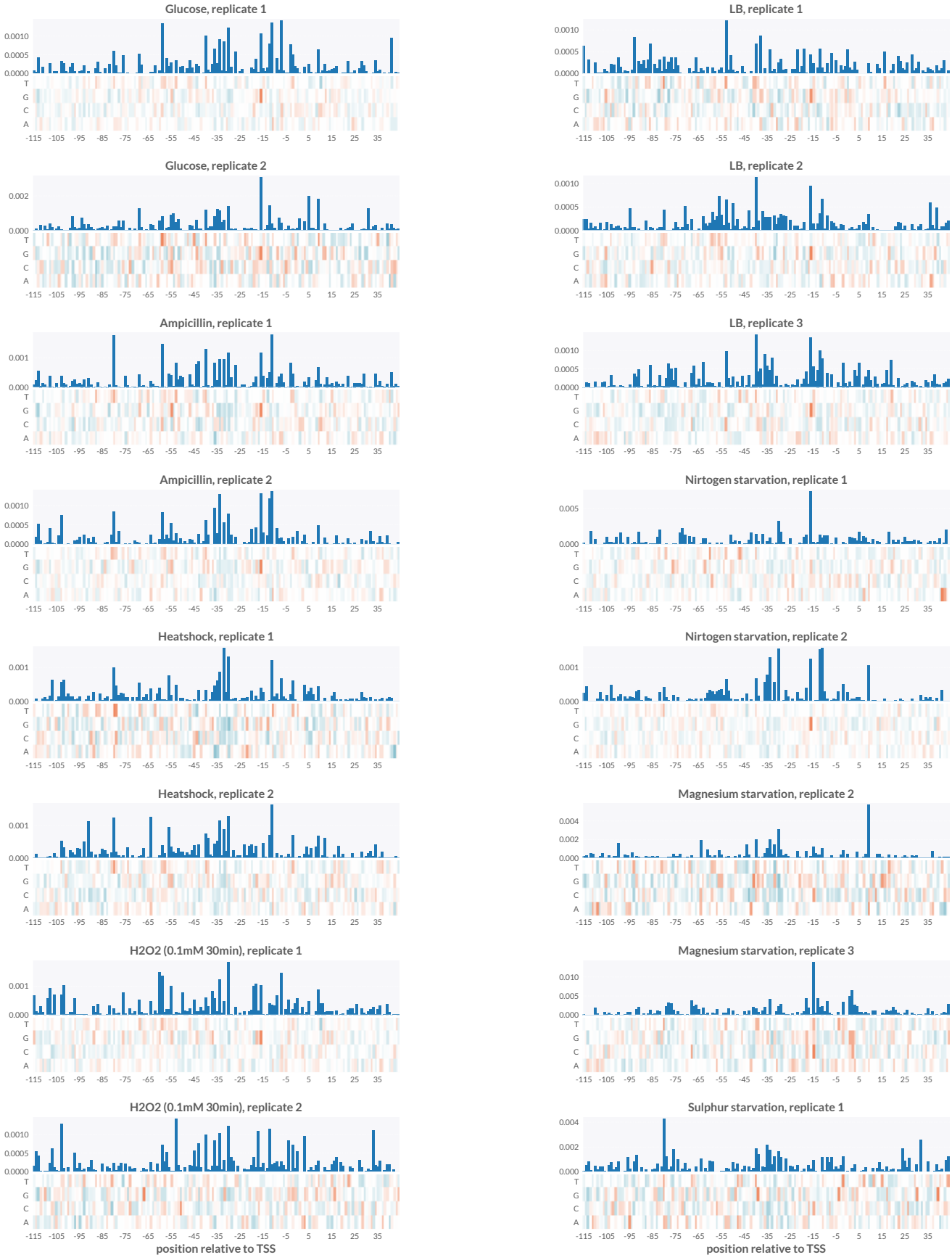

Sodium Salicytate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

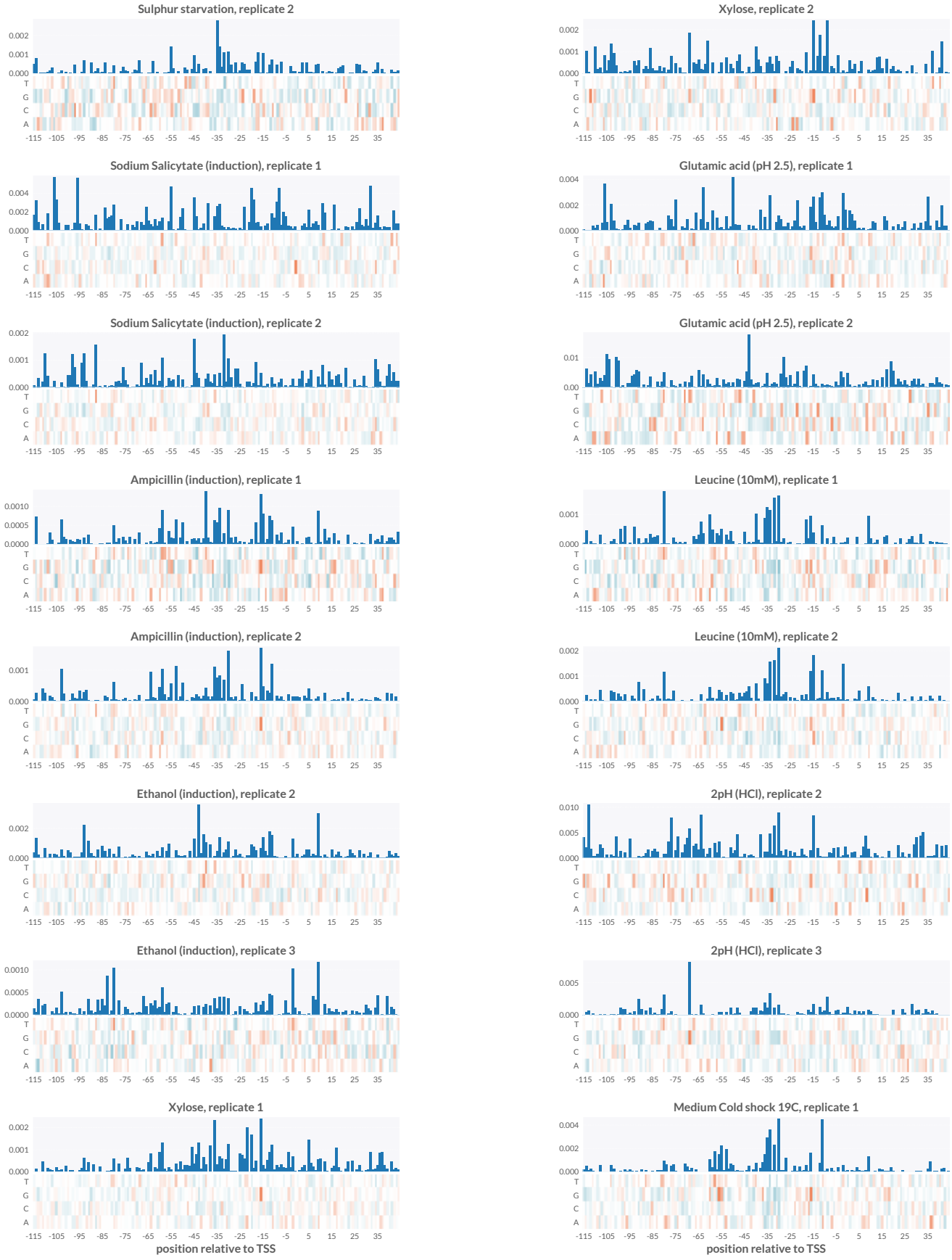

Sodium Salicytate, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

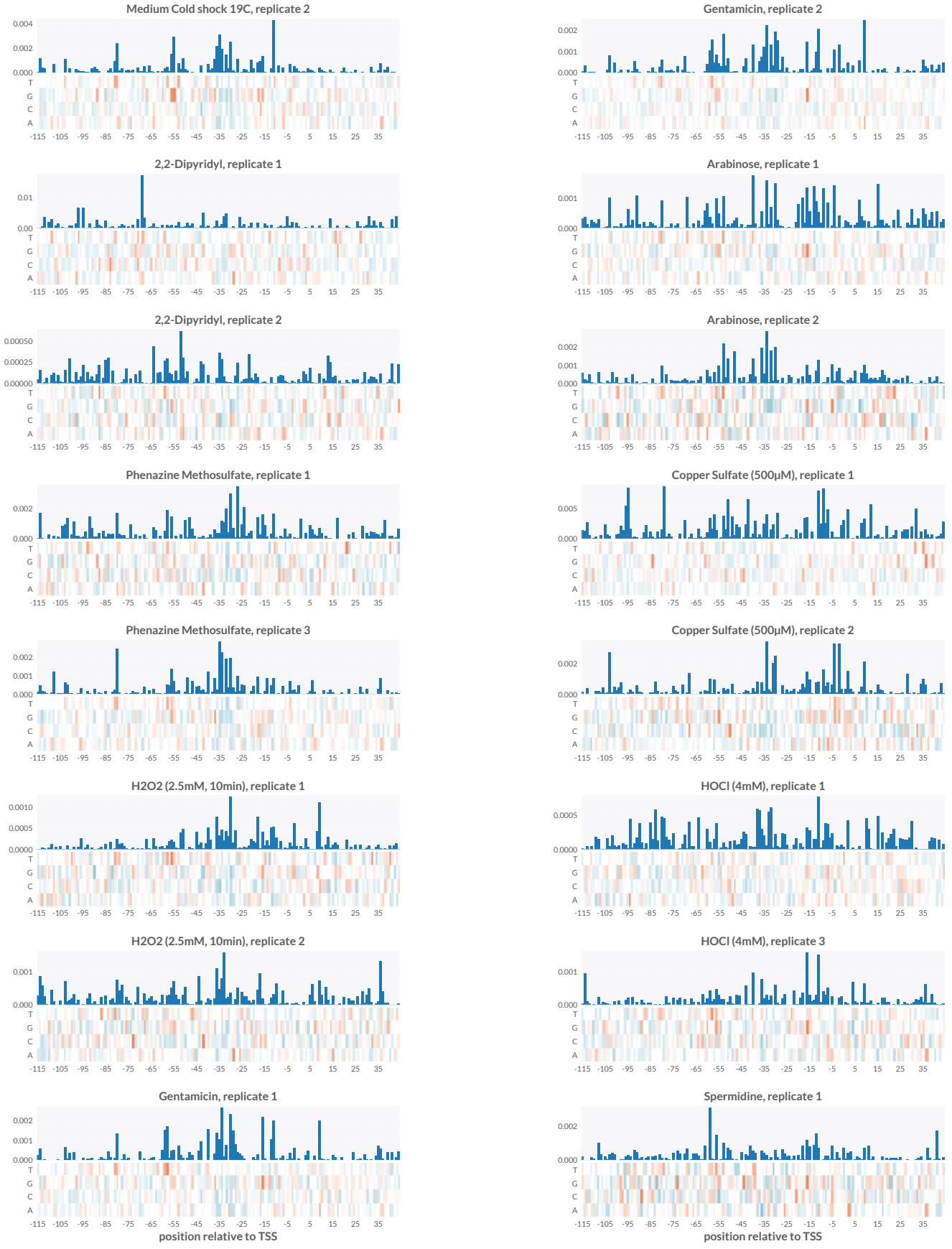
ompRp2


Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

ompRp2


Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

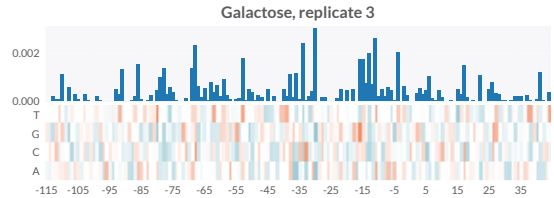
ompRp2

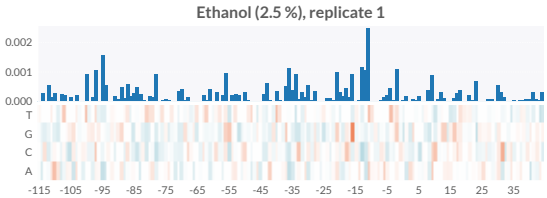

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

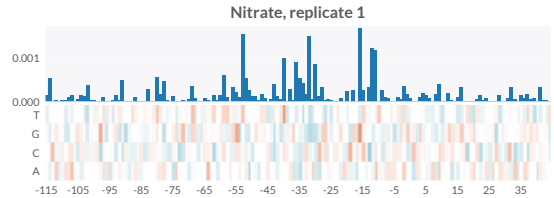
ompRp2

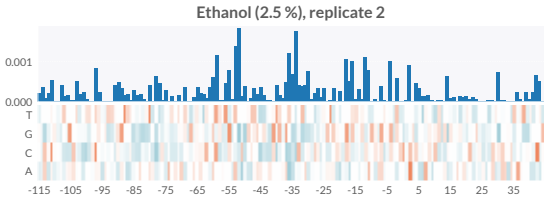

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

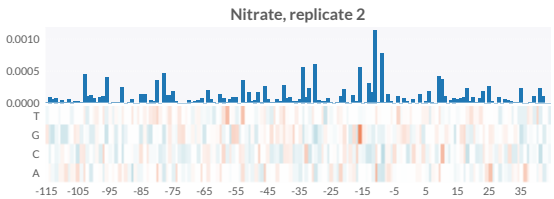
ompRp2

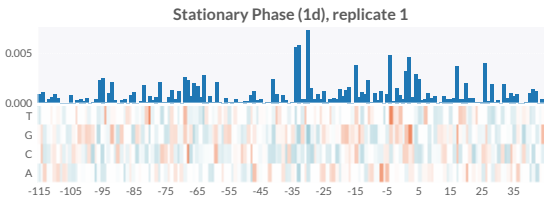

Galactose, replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

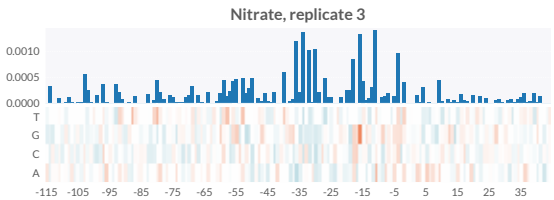

Ethanol (2.5 %), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

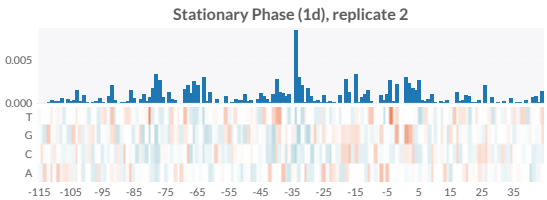

Nitrate, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

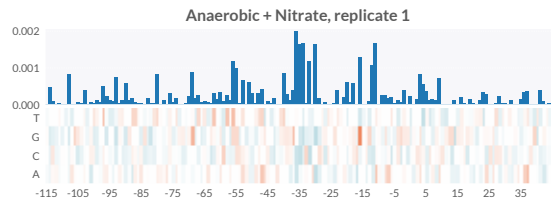

Ethanol (2.5 %), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

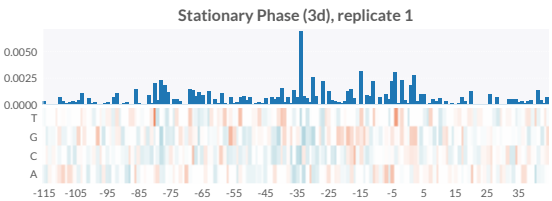

Nitrate, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

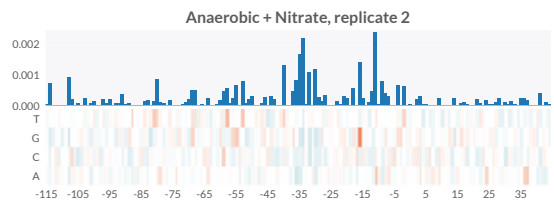

Stationary Phase (1d), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

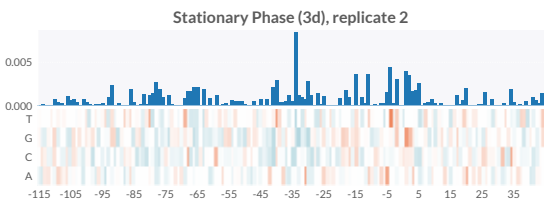

Nitrate, replicate 3
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

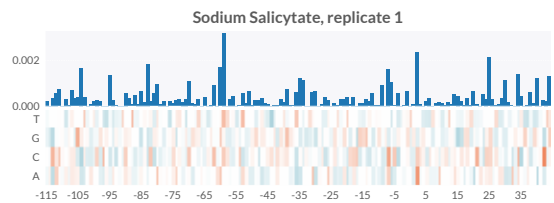

Stationary Phase (1d), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

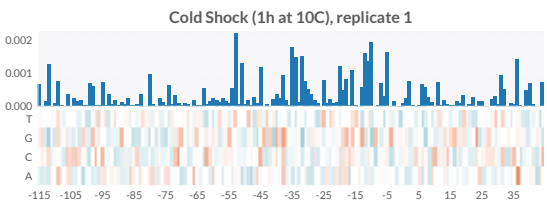

Anaerobic + Nitrate, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

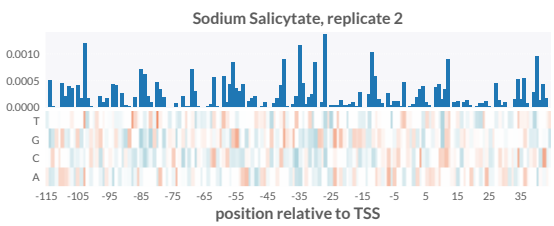

Stationary Phase (3d), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

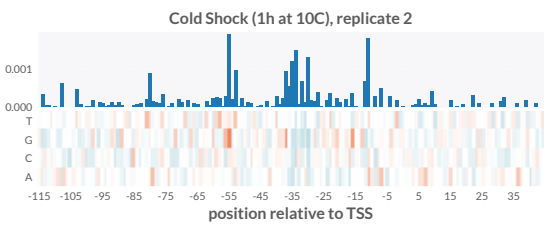

Anaerobic + Nitrate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

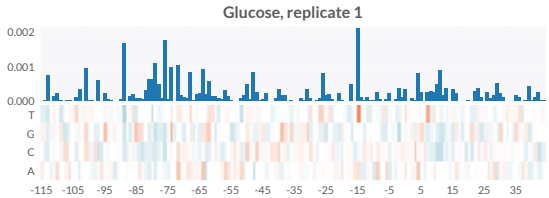

Sodium Salicytate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

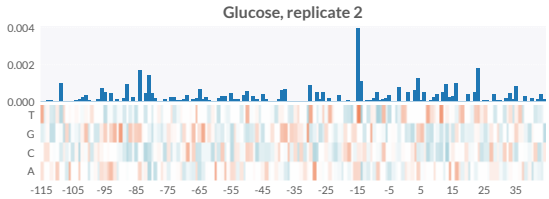

Cold Shock (1h at 10C), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

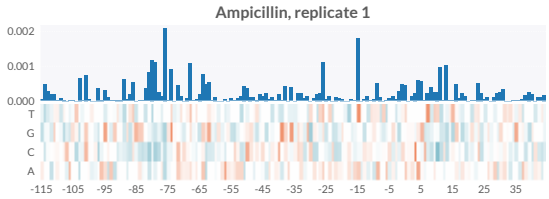

Sodium Salicytate, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

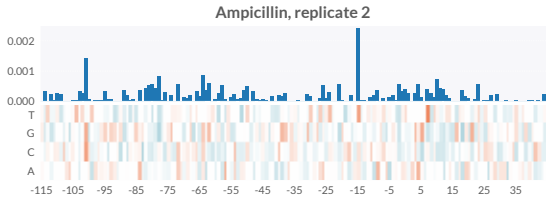

Cold Shock (1h at 10C), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

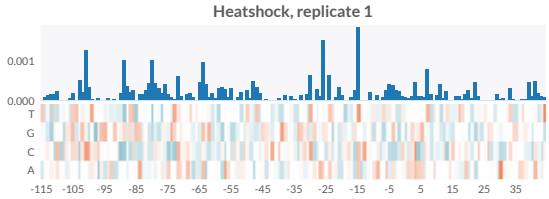
ompRp3

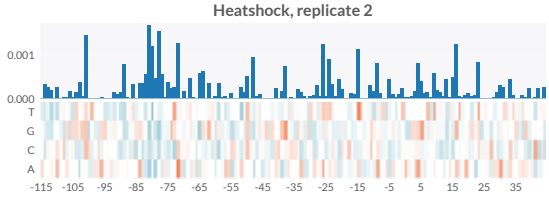

Glucose, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

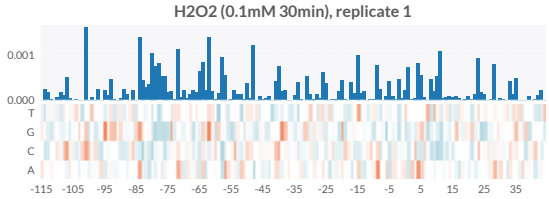

Glucose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

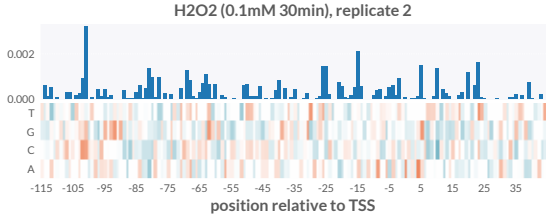

Ampicillin, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

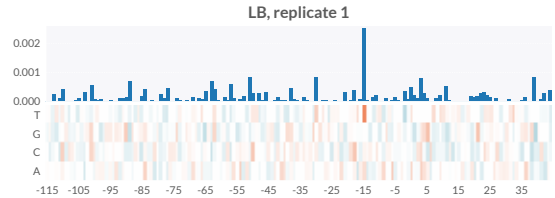

Ampicillin, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

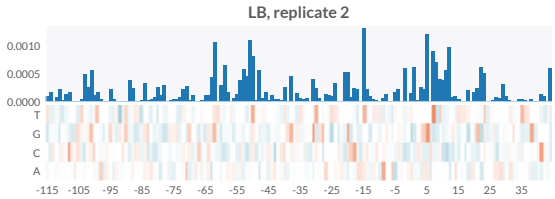

Heatshock, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

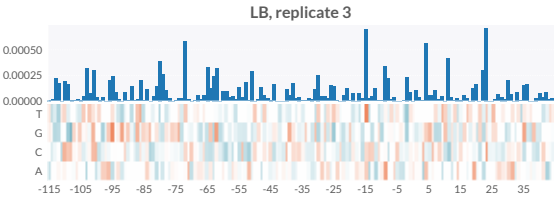

Heatshock, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

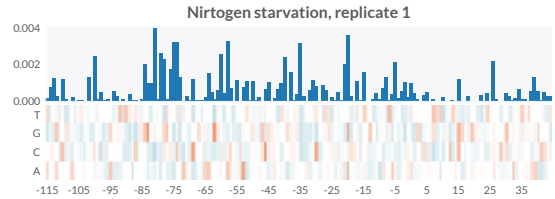

H2O2 (0.1mM 30min), replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

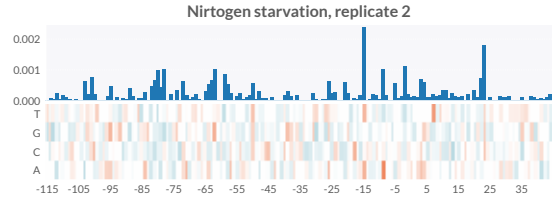

H2O2 (0.1mM 30min), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

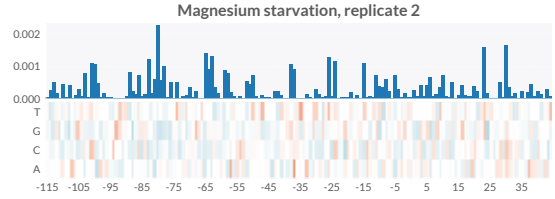

LB, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

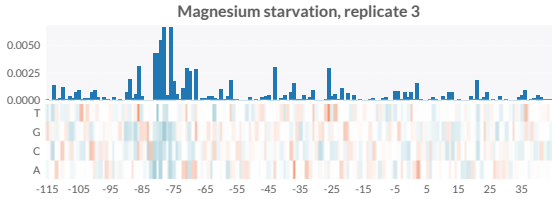

LB, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

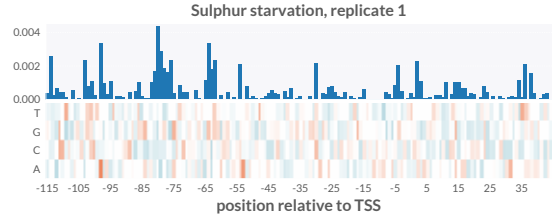

LB, replicate 3
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Nirtogen starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

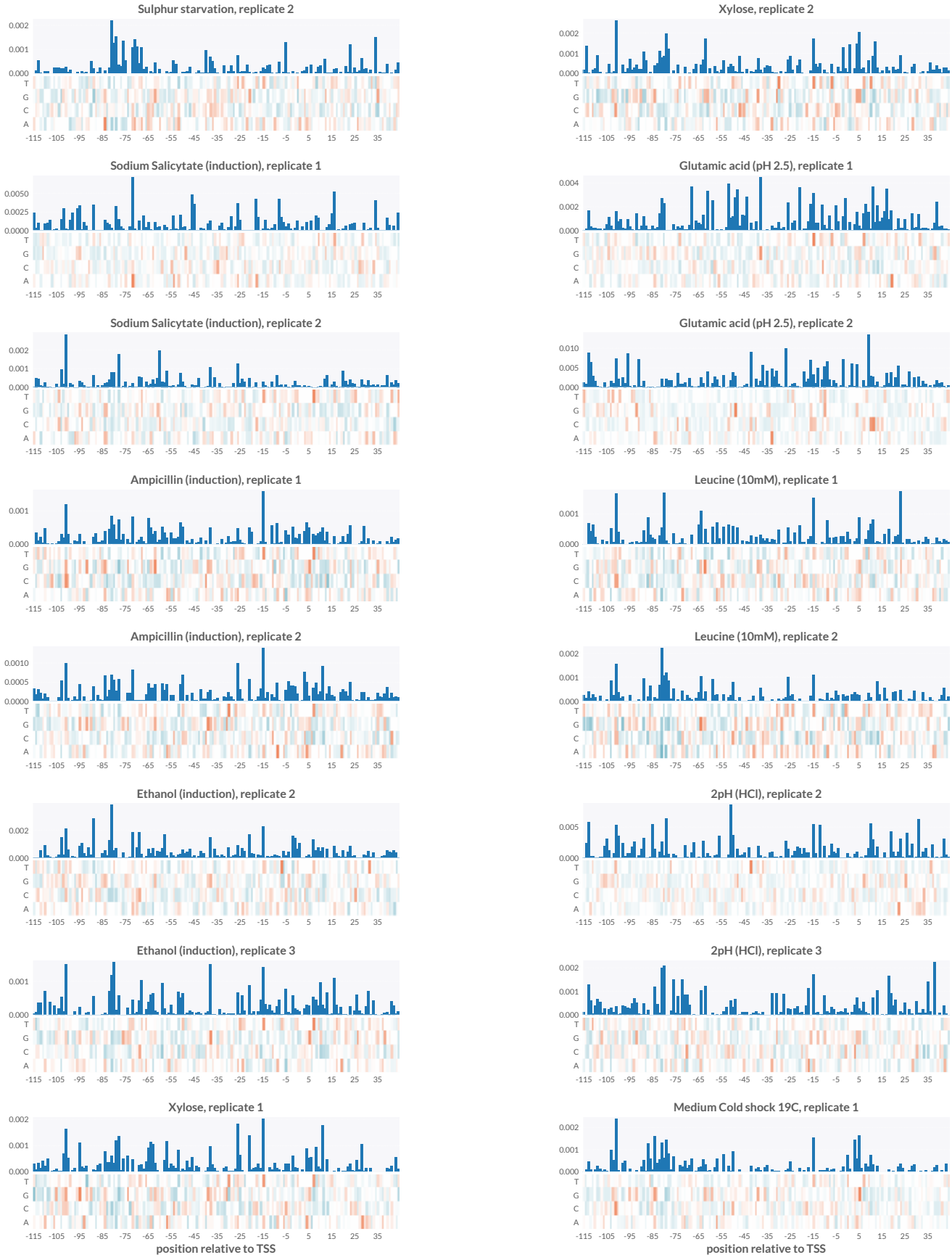

Nirtogen starvation, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

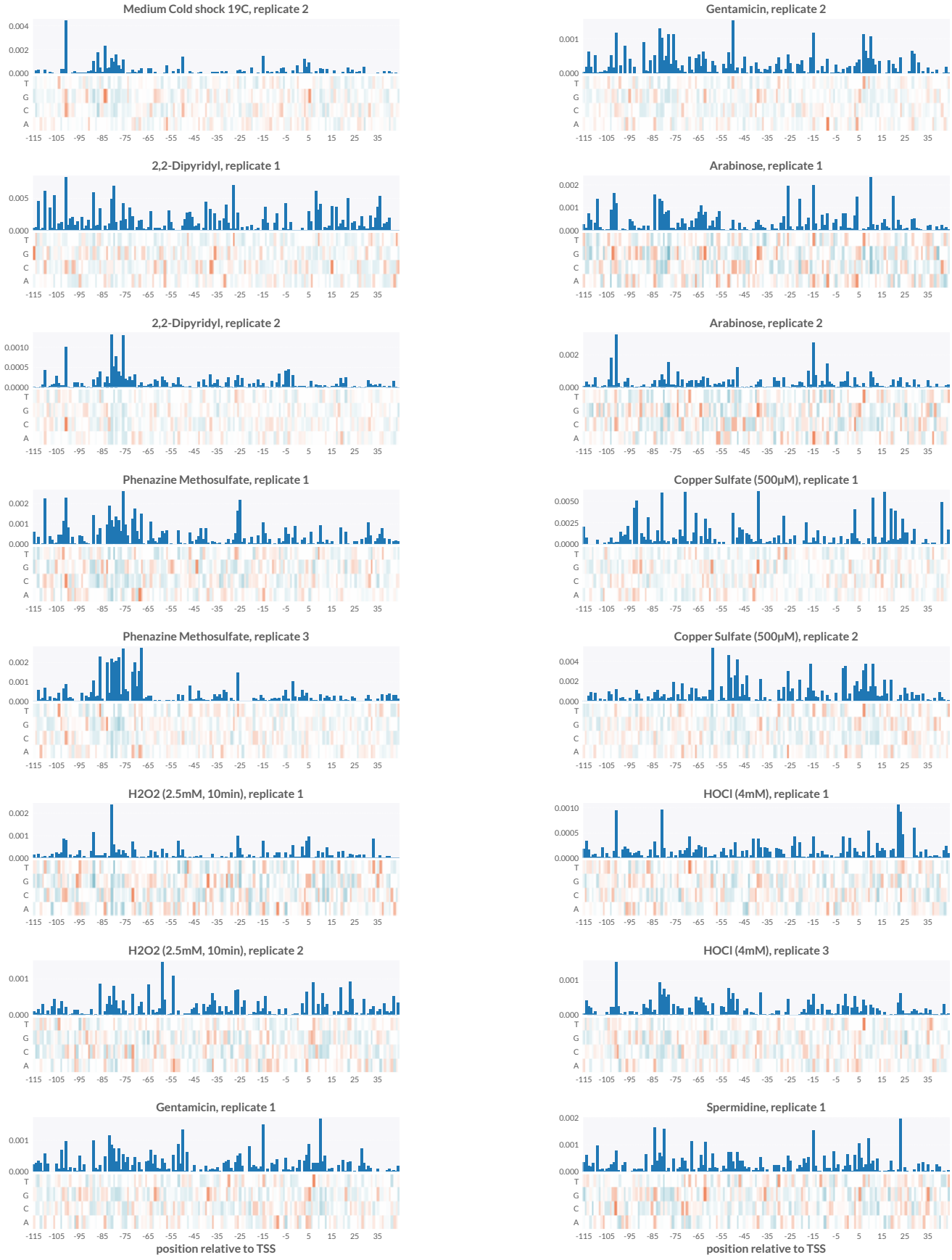

Magnesium starvation, replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Sulphur starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

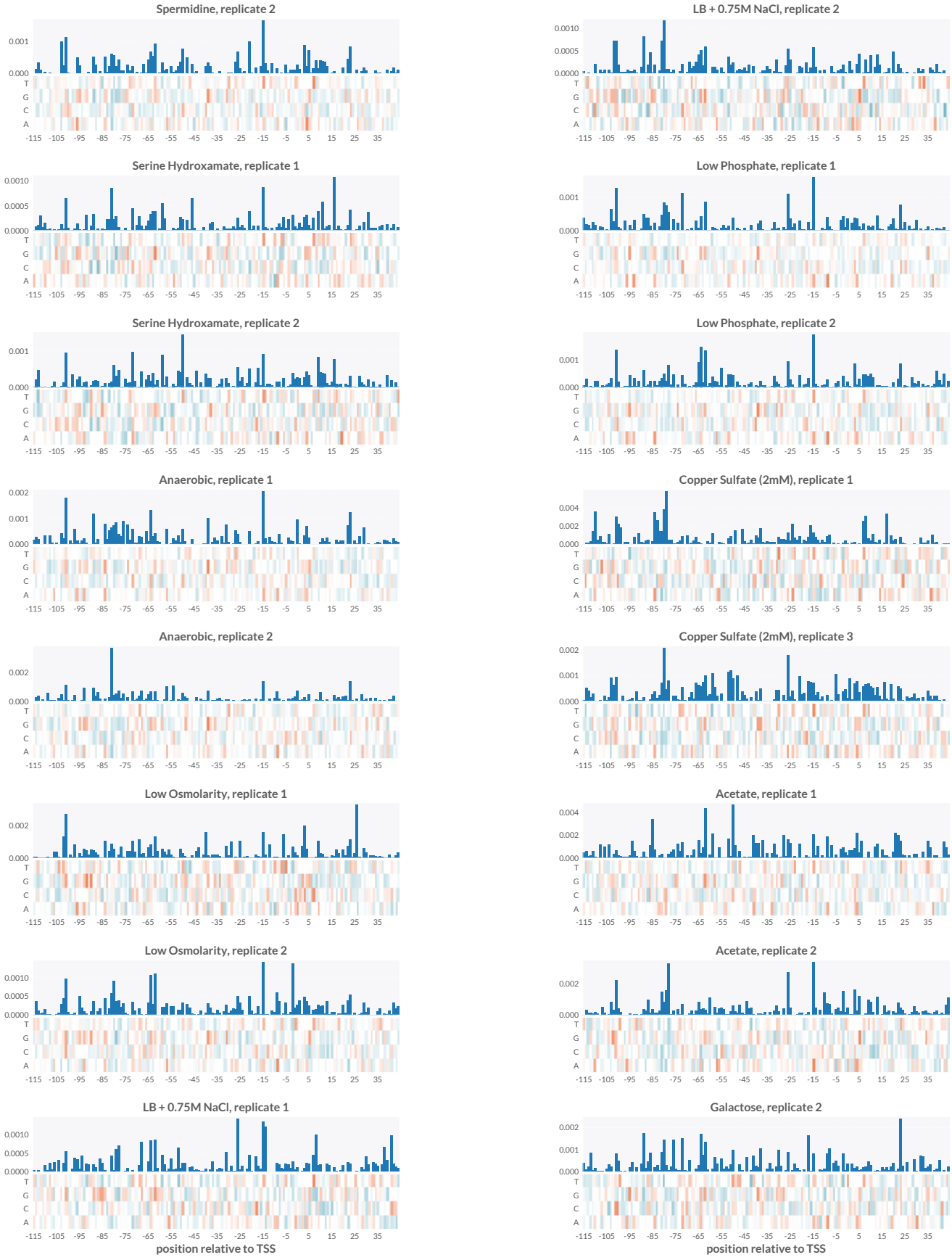
ompRp3


Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

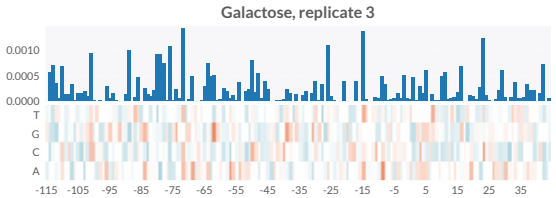
ompRp3

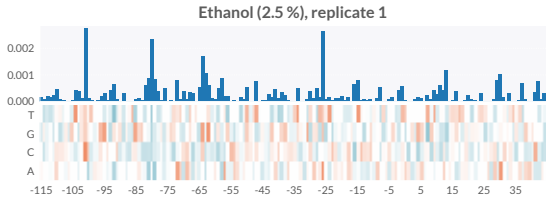

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

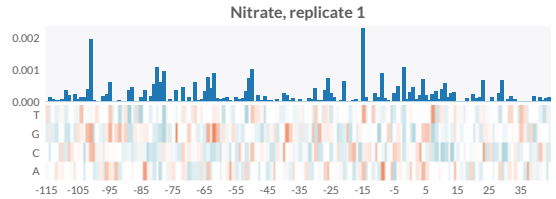
ompRp3

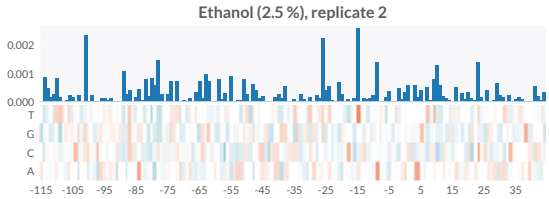

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

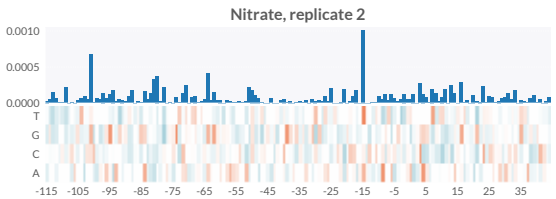
ompRp3

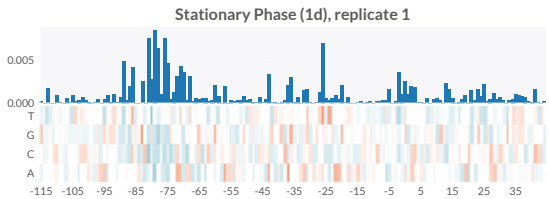

Galactose, replicate 3
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

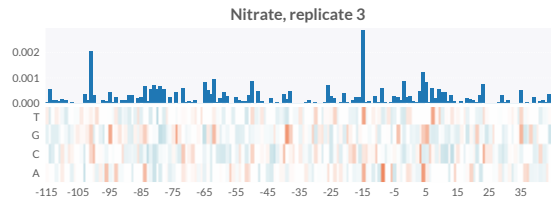

Ethanol (2.5 %), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

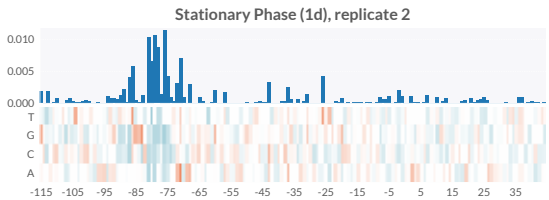

Nitrate, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

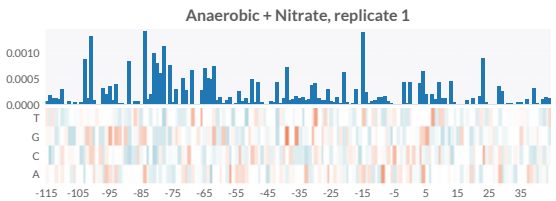

Ethanol (2.5 %), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

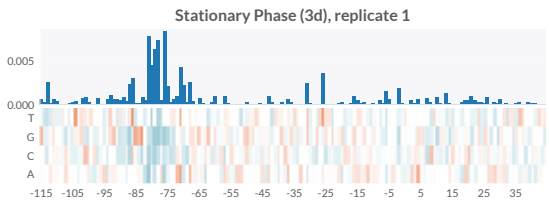

Nitrate, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

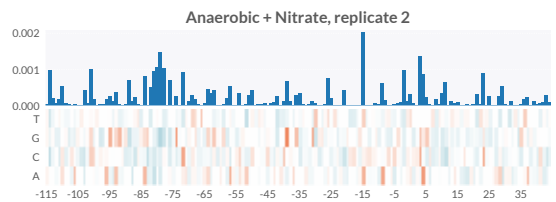

Stationary Phase (1d), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

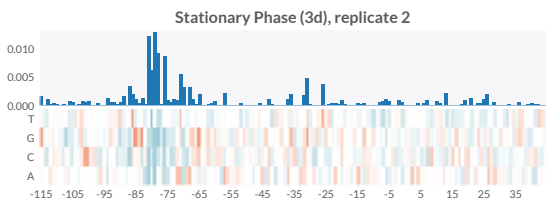

Nitrate, replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

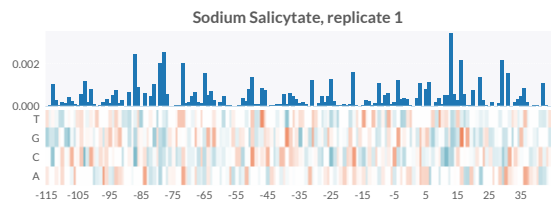

Stationary Phase (1d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

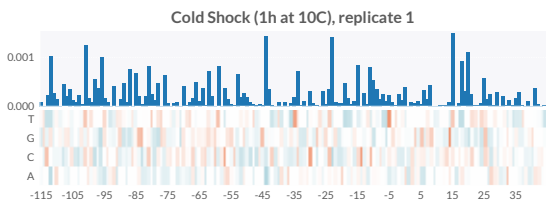

Anaerobic + Nitrate, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

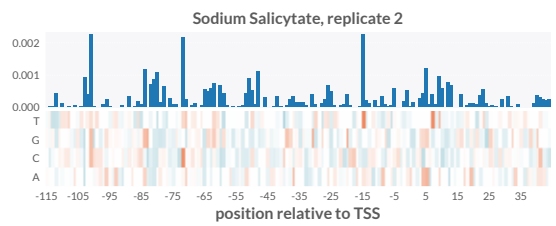

Stationary Phase (3d), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

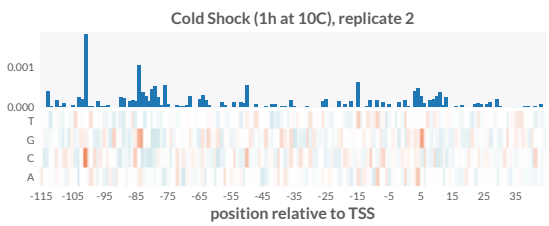

Anaerobic + Nitrate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

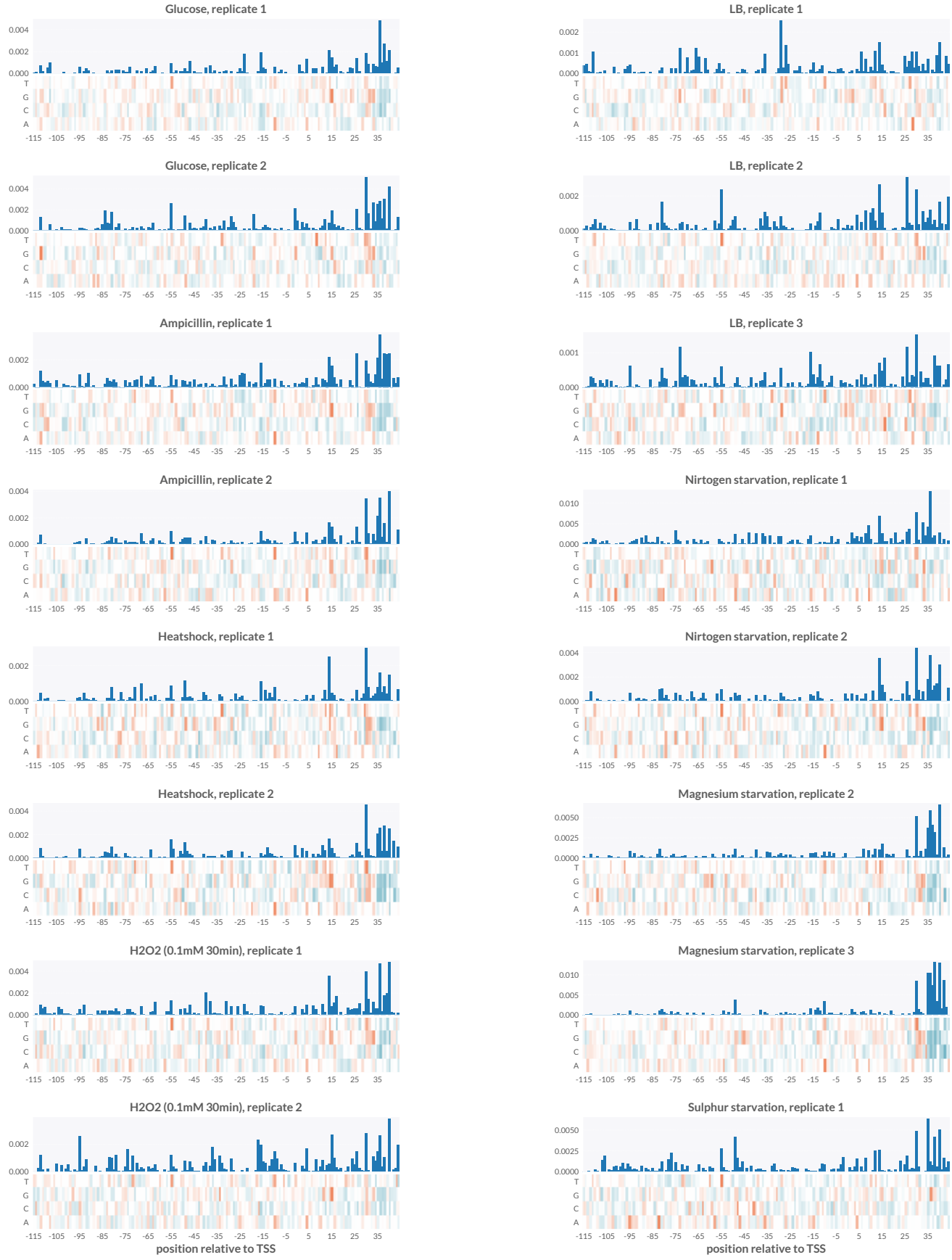

Sodium Salicytate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

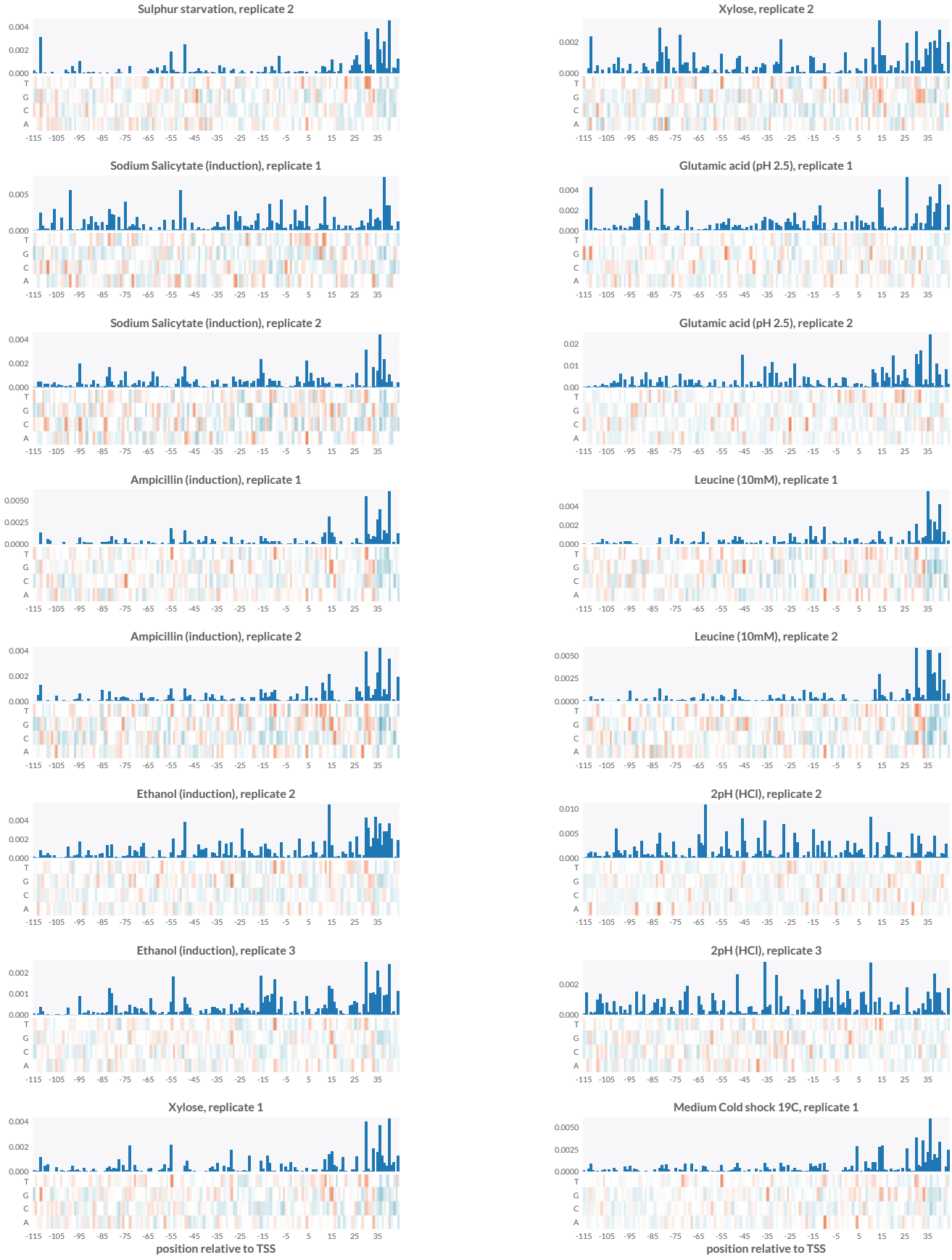

Sodium Salicytate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

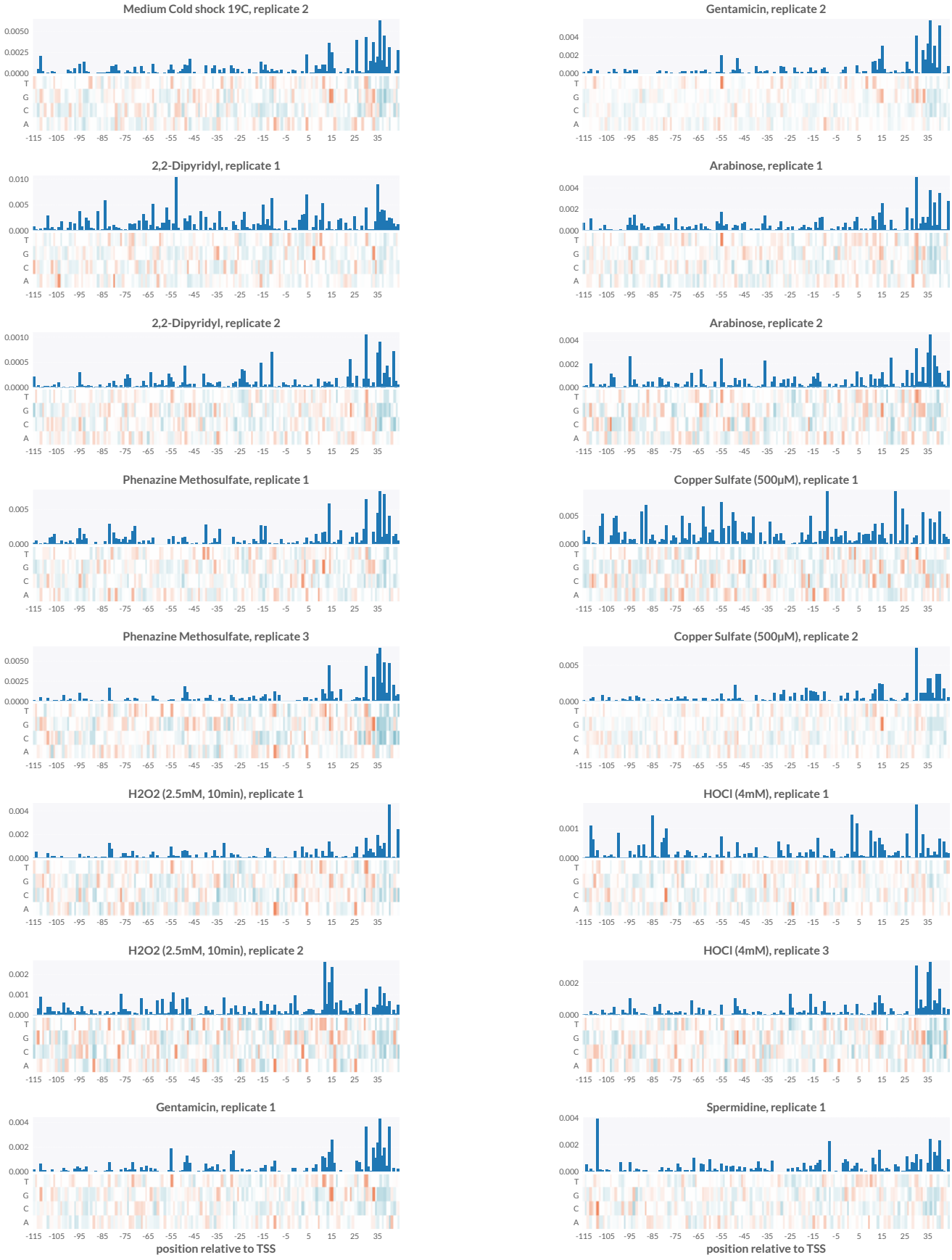
ompRp4


Glucose, replicate 1
Glucose, replicate 2
Ampicillin, replicate 1
Ampicillin, replicate 2
Heatshock, replicate 1
Heatshock, replicate 2
H2O2 (0.1mM 30min), replicate 1
H2O2 (0.1mM 30min), replicate 2
LB, replicate 1
LB, replicate 2
LB, replicate 3
Nirtogen starvation, replicate 1
Nirtogen starvation, replicate 2
Magnesium starvation, replicate 2
Magnesium starvation, replicate 3
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

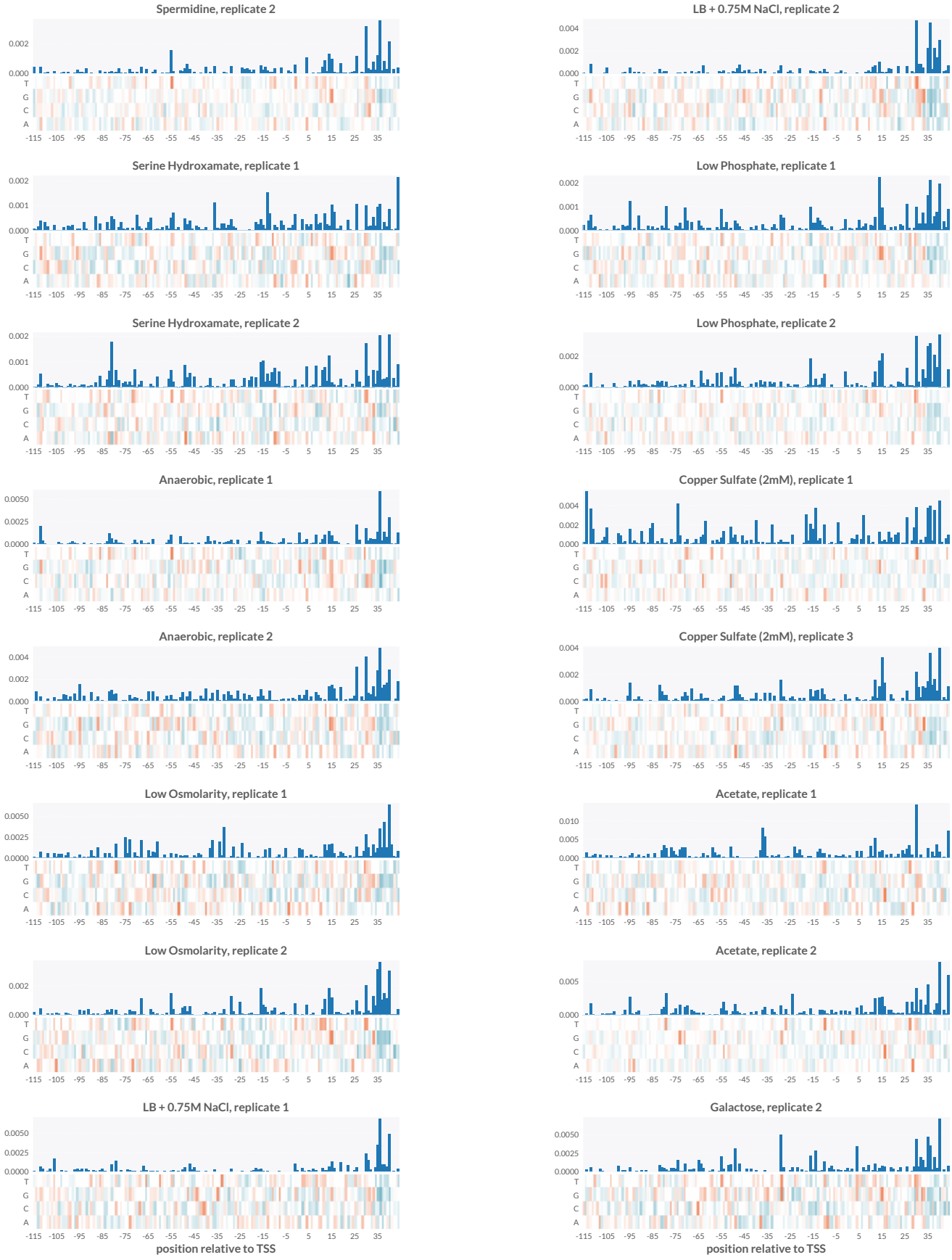
ompRp4


Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

ompRp4


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

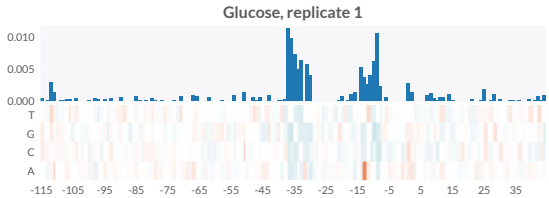
ompRp4

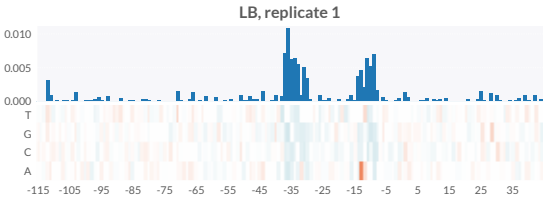

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

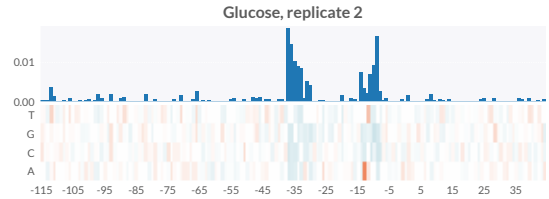
ompRp4

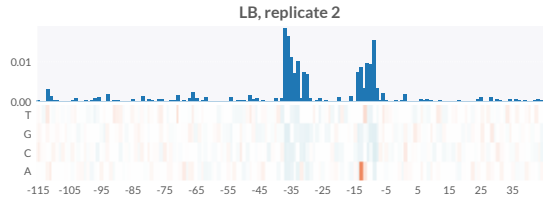

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

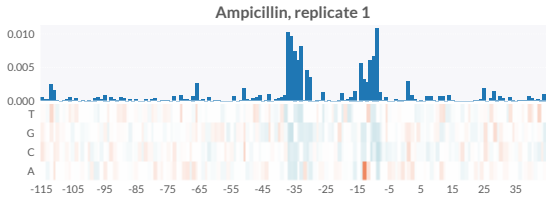
pheMp

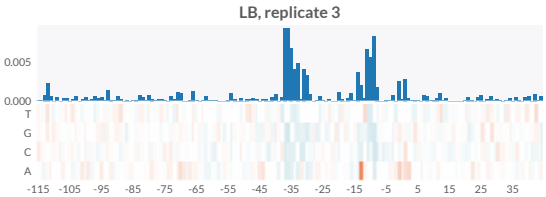

Glucose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

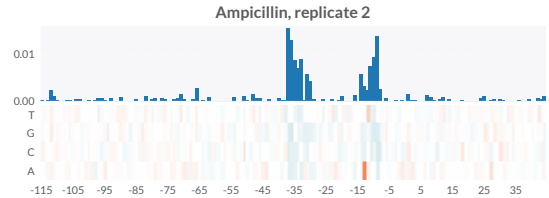

LB, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

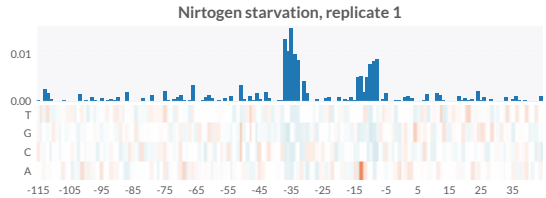

Glucose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

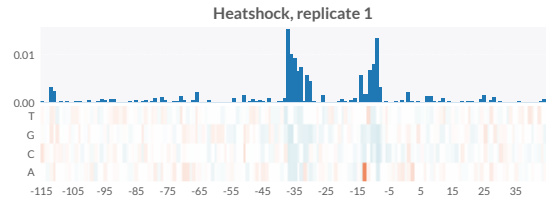

LB, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

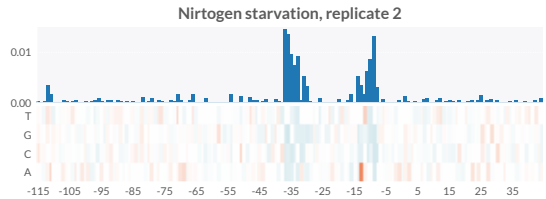

Ampicillin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

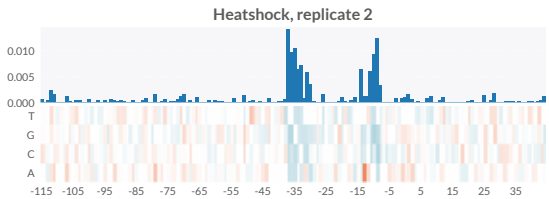

LB, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

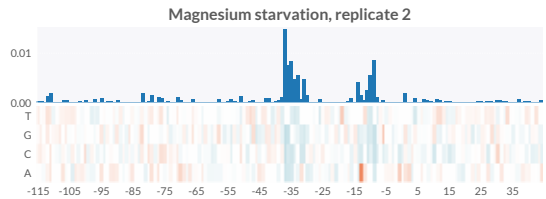

Ampicillin, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

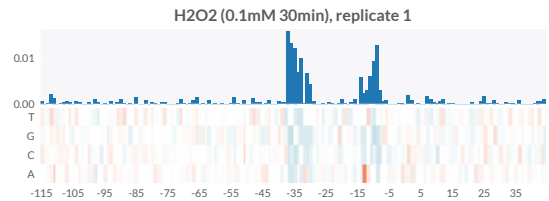

Nirtogen starvation, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

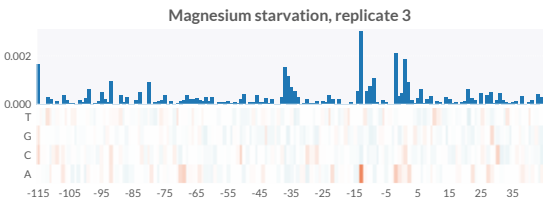

Heatshock, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

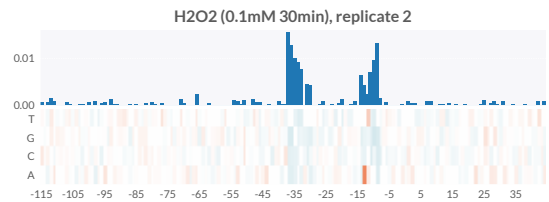

Nirtogen starvation, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

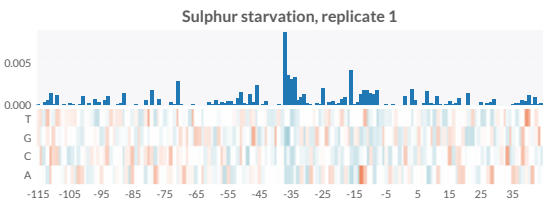

Heatshock, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

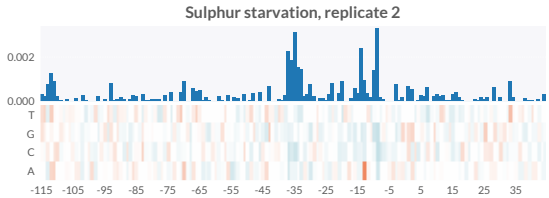

H2O2 (0.1mM 30min), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

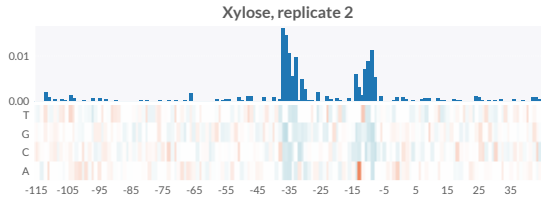

Magnesium starvation, replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

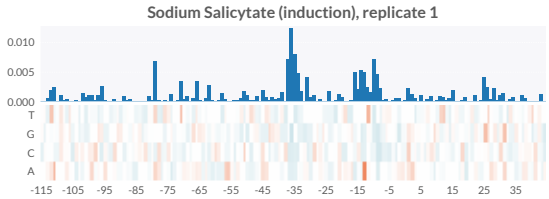

H2O2 (0.1mM 30min), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

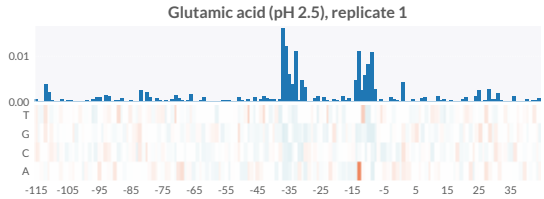

Sulphur starvation, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

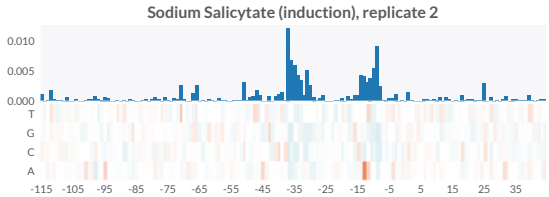
pheMp

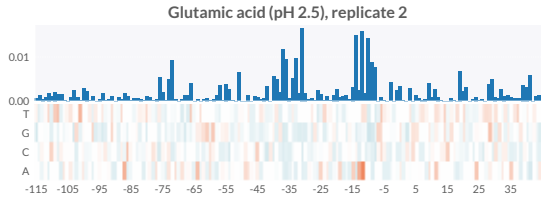

Sulphur starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

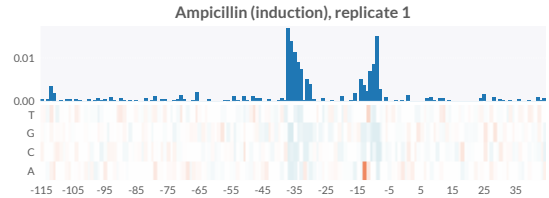

Xylose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

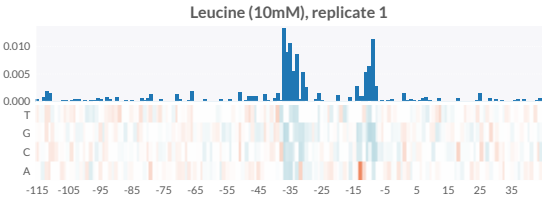

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

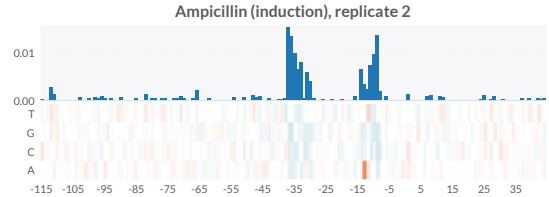

Glutamic acid (pH 2.5), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

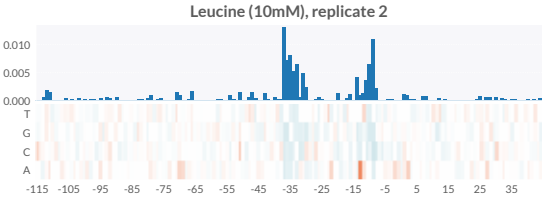

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

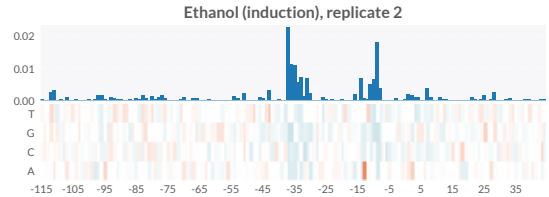

Glutamic acid (pH 2.5), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

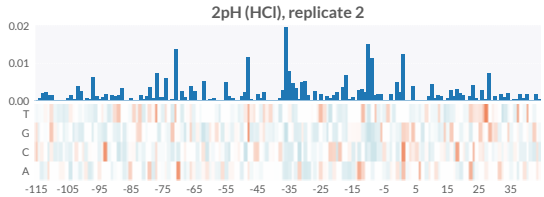

Ampicillin (induction), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

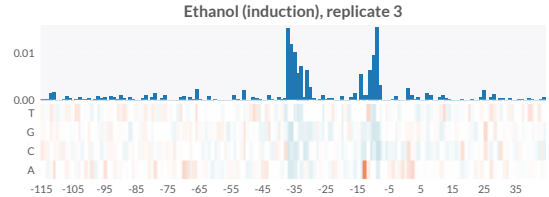

Leucine (10mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

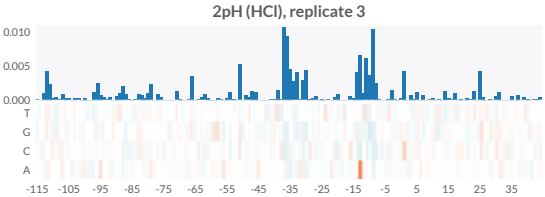

Ampicillin (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

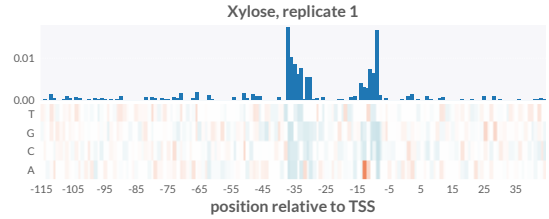

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

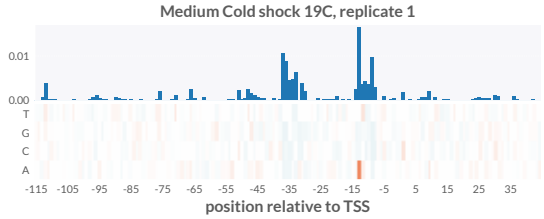

Ethanol (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

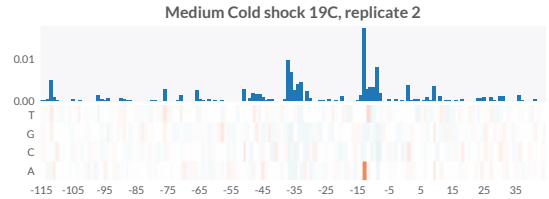

Ethanol (induction), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

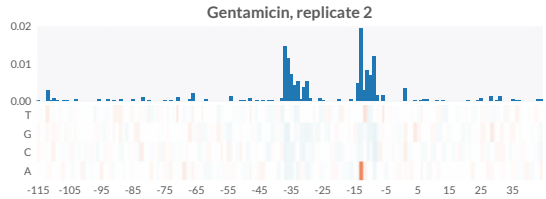

2pH (HCl), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

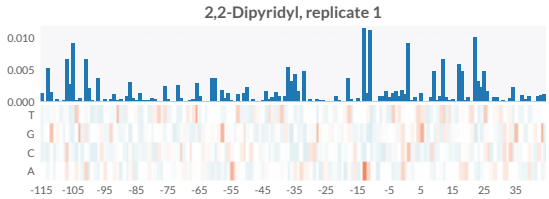

Xylose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

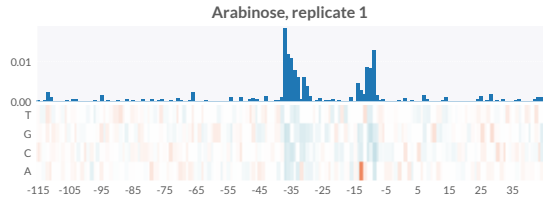

Medium Cold shock 19C, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

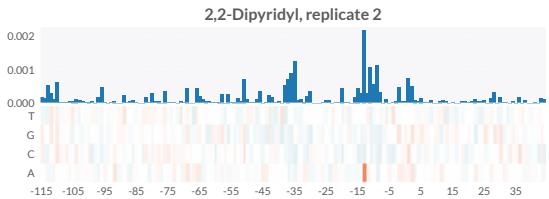
pheMp

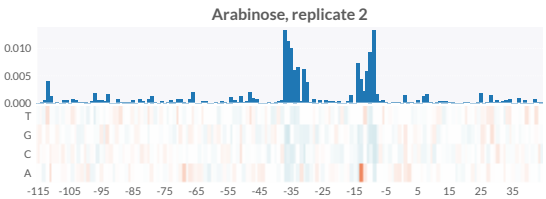

Medium Cold shock 19C, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

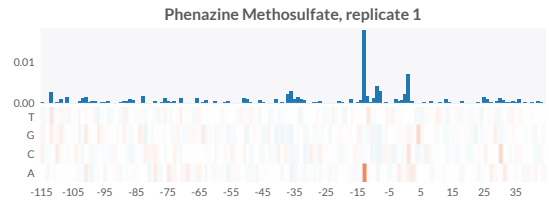

Gentamicin, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

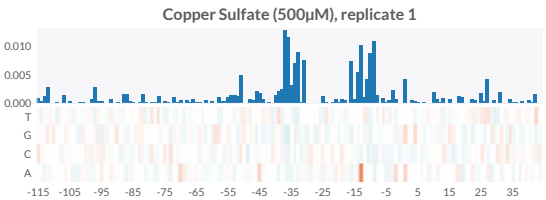

2,2-Dipyridyl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

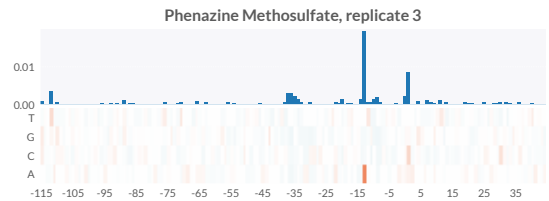

Arabinose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

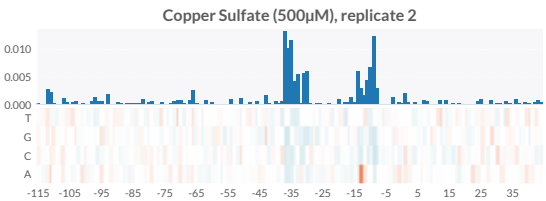

2,2-Dipyridyl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

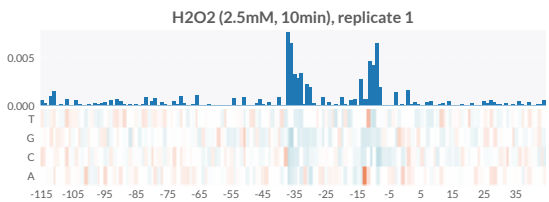

Arabinose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

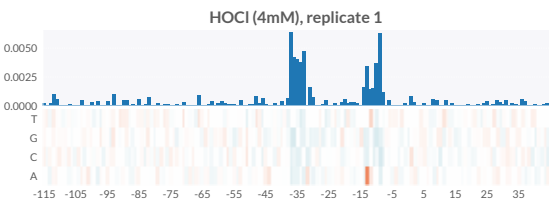

Phenazine Methosulfate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

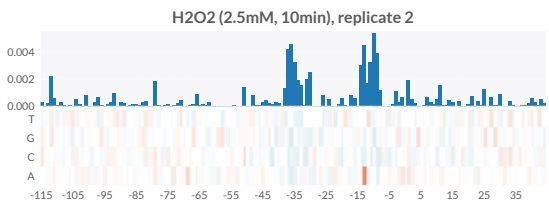

Copper Sulfate (500µM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

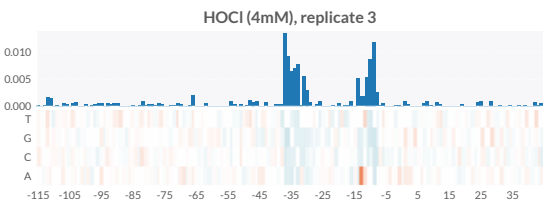

Phenazine Methosulfate, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

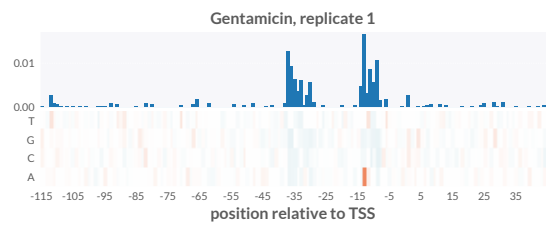

Copper Sulfate (500µM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

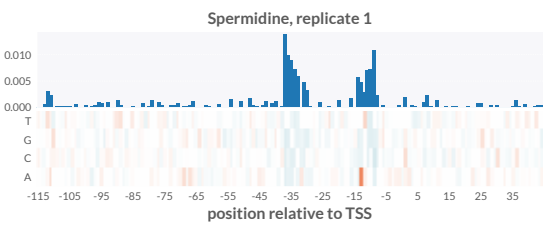

H2O2 (2.5mM, 10min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

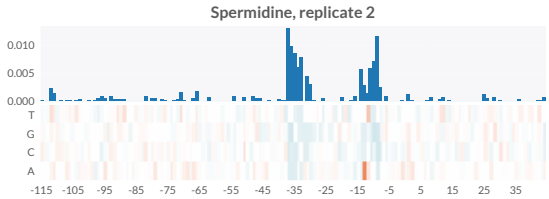

H2O2 (2.5mM, 10min), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

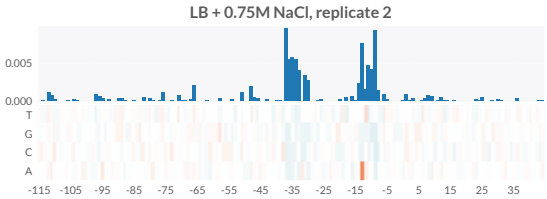

HOCl (4mM), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

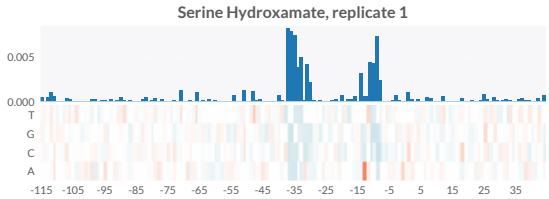

Gentamicin, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

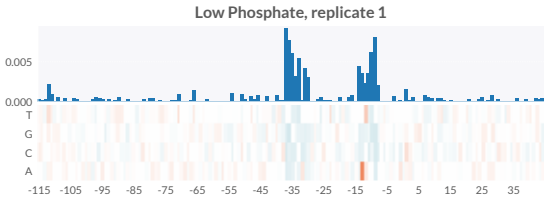

Spermidine, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

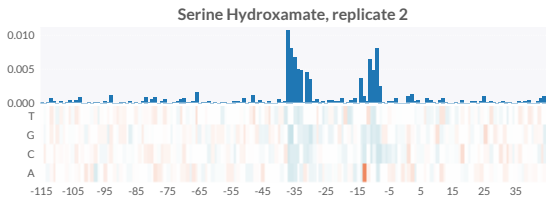
pheMp

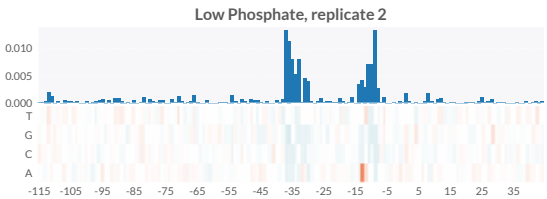

Spermidine, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

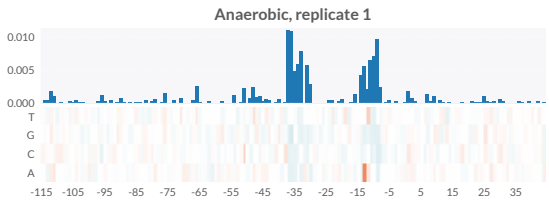

LB + 0.75M NaCl, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

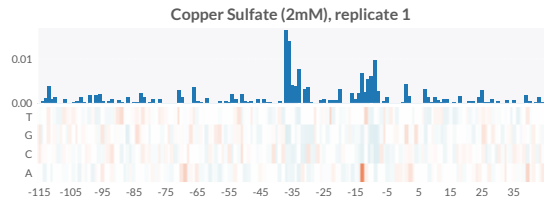

Serine Hydroxamate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

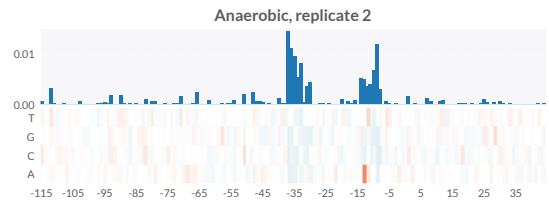

Low Phosphate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

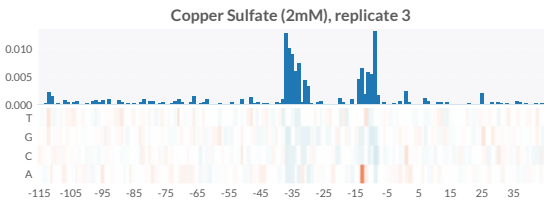

Serine Hydroxamate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

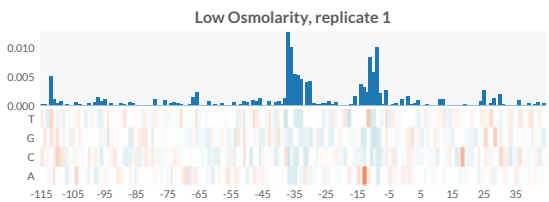

Low Phosphate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

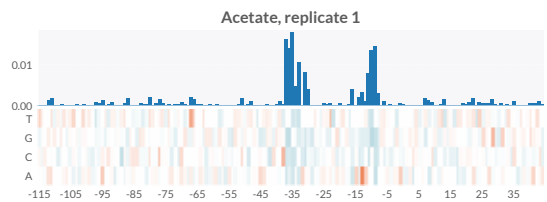

Anaerobic, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

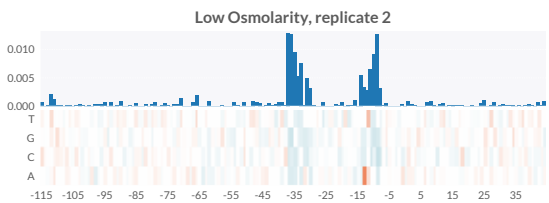

Copper Sulfate (2mM), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

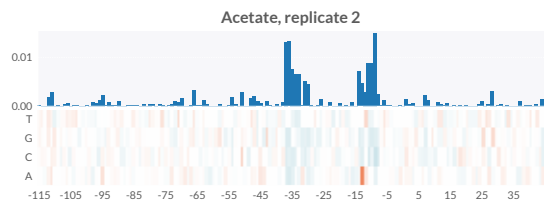

Anaerobic, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

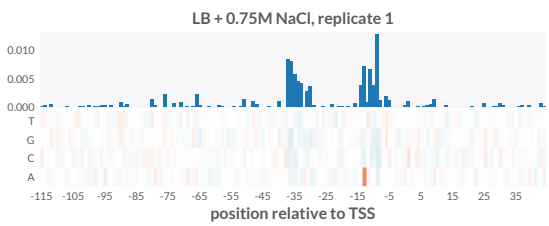

Copper Sulfate (2mM), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

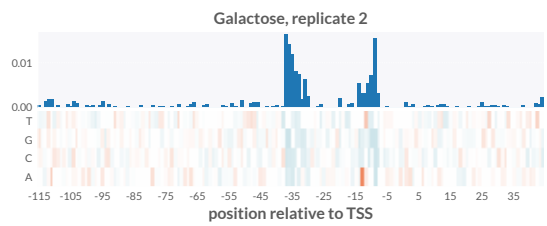

Low Osmolarity, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

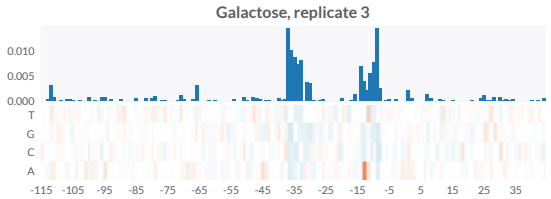

Low Osmolarity, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

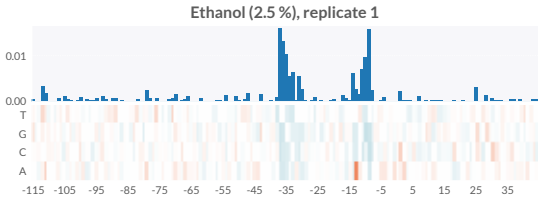

Acetate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

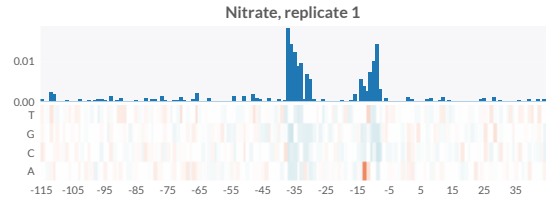

LB + 0.75M NaCl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

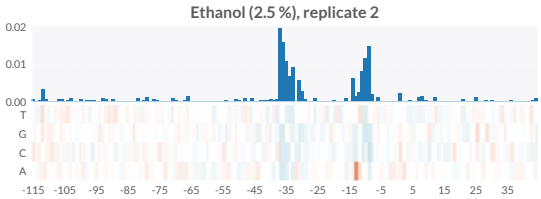

Galactose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

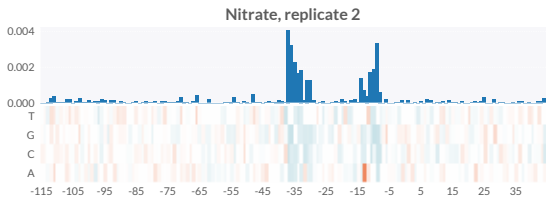
pheMp

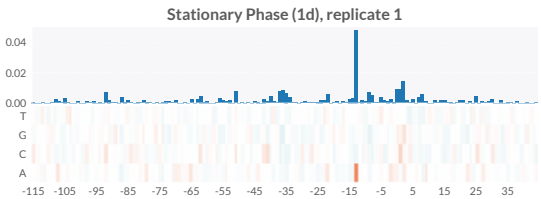

Galactose, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

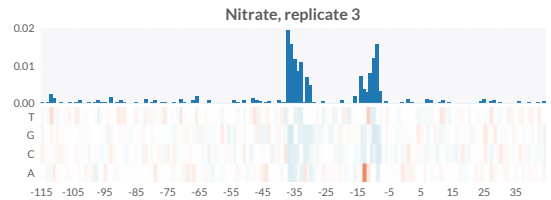

Ethanol (2.5 %), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

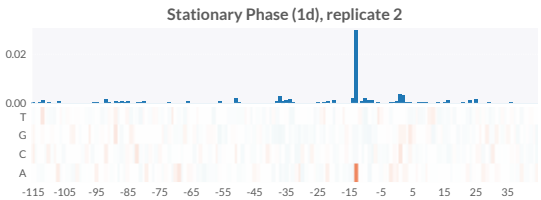

Nitrate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

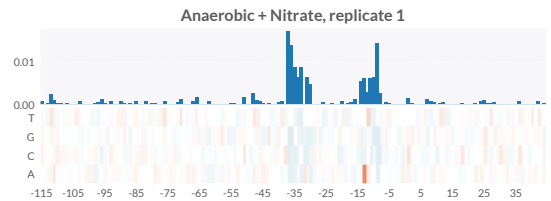

Ethanol (2.5 %), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

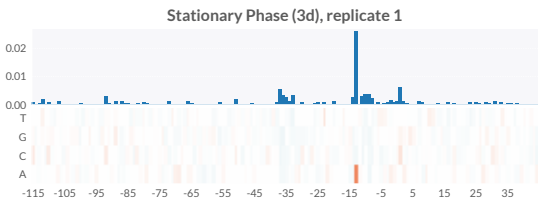

Nitrate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

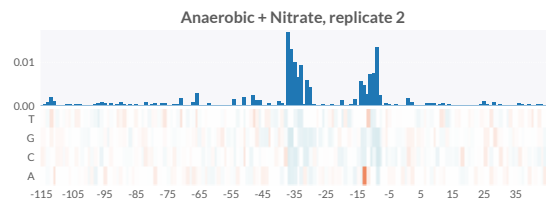

Stationary Phase (1d), replicate 1
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

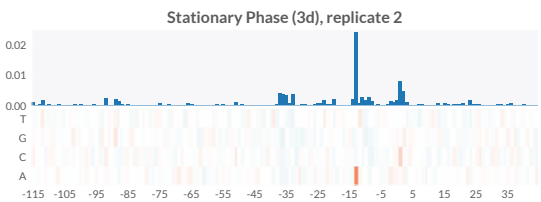

Nitrate, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

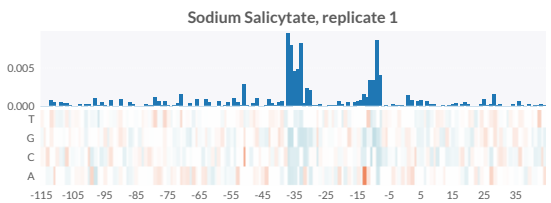

Stationary Phase (1d), replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

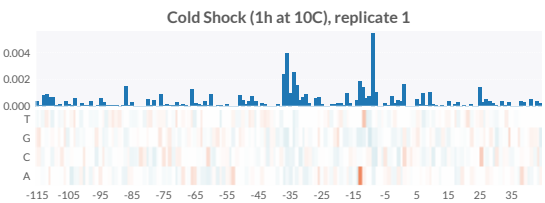

Anaerobic + Nitrate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

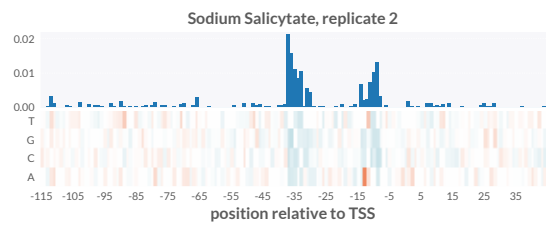

Stationary Phase (3d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

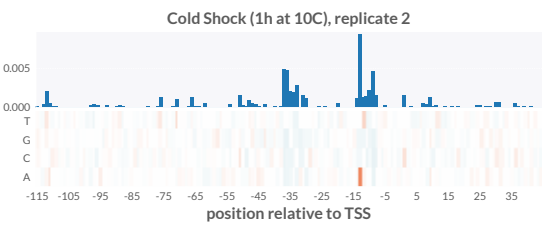

Anaerobic + Nitrate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

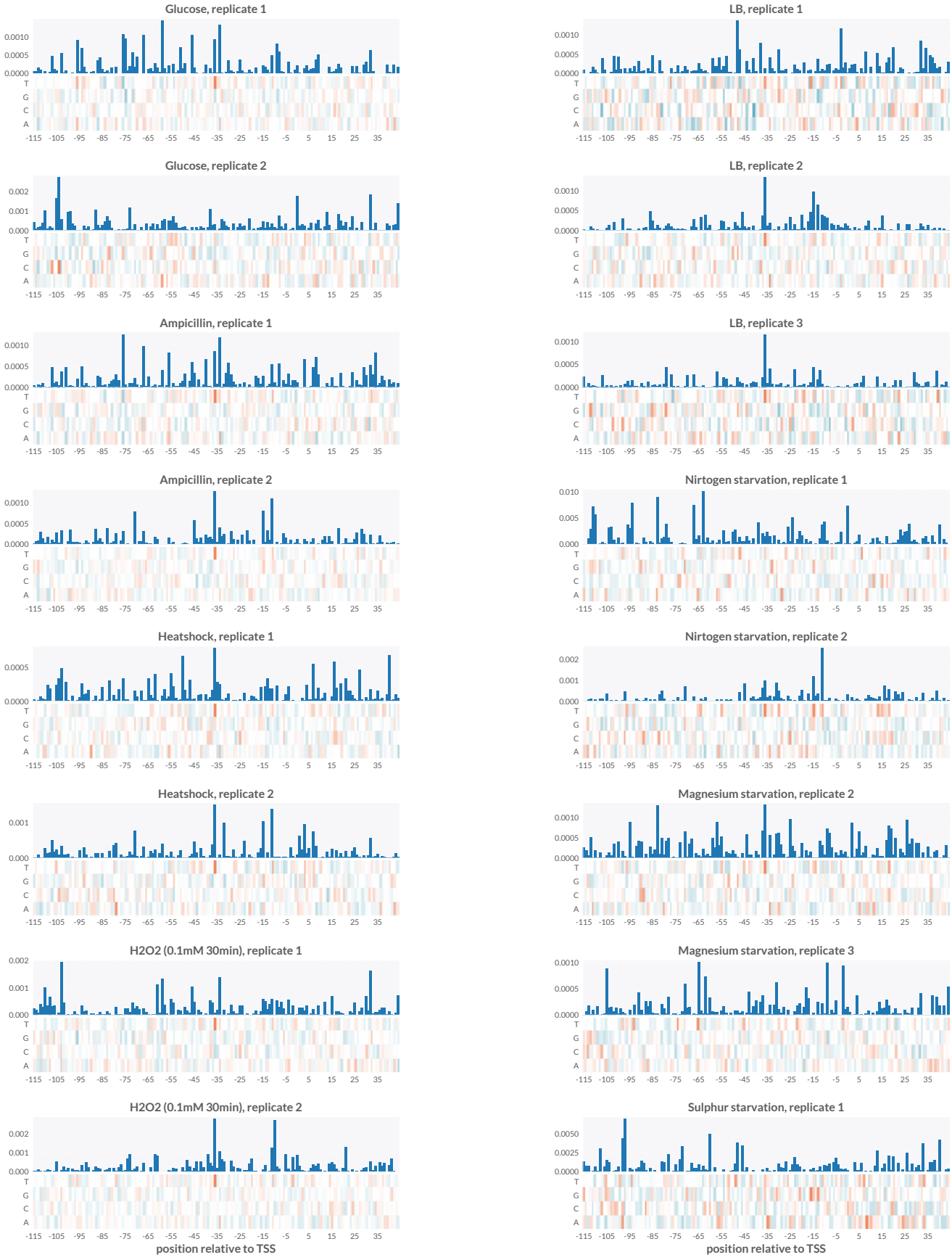

Sodium Salicytate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

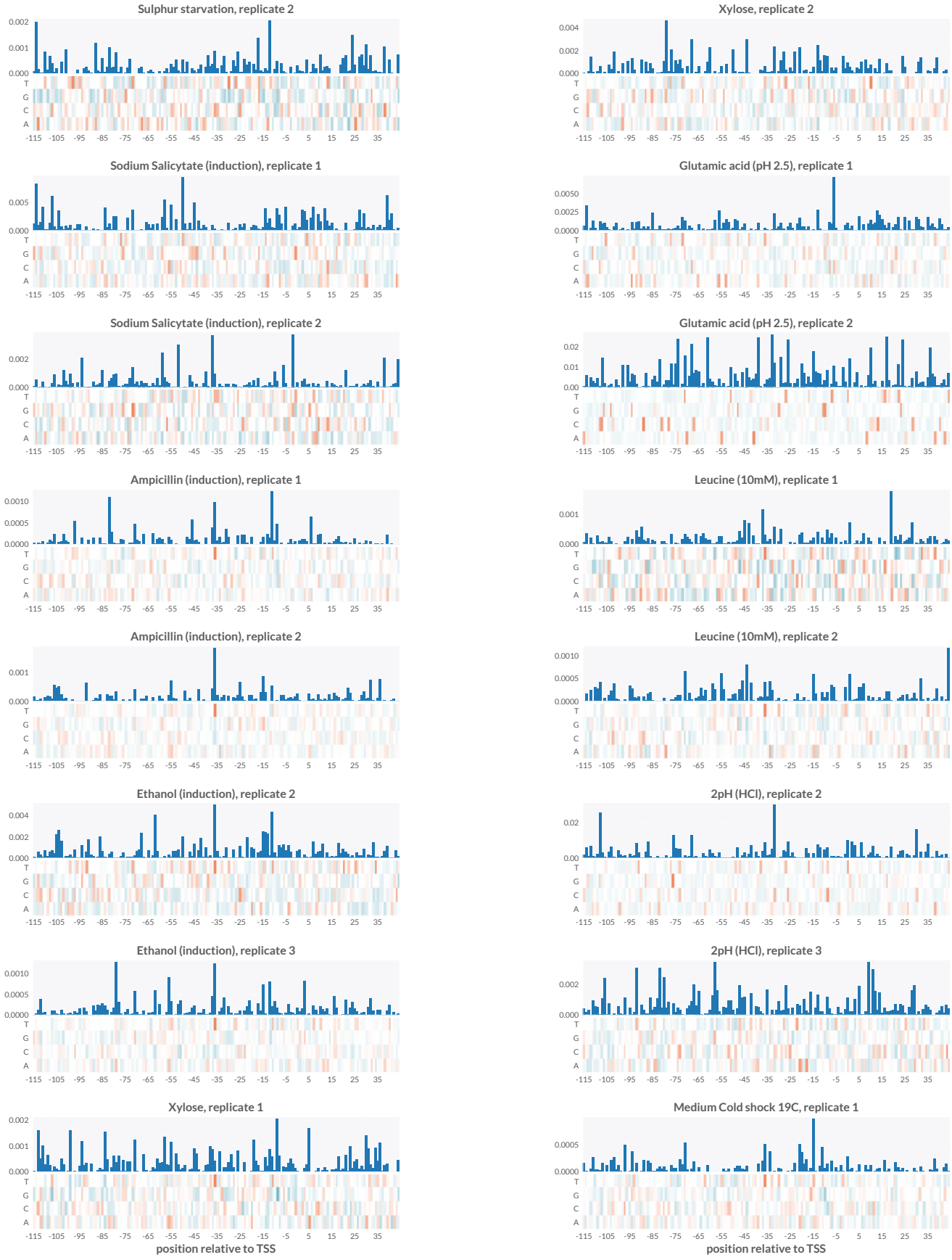

Sodium Salicytate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

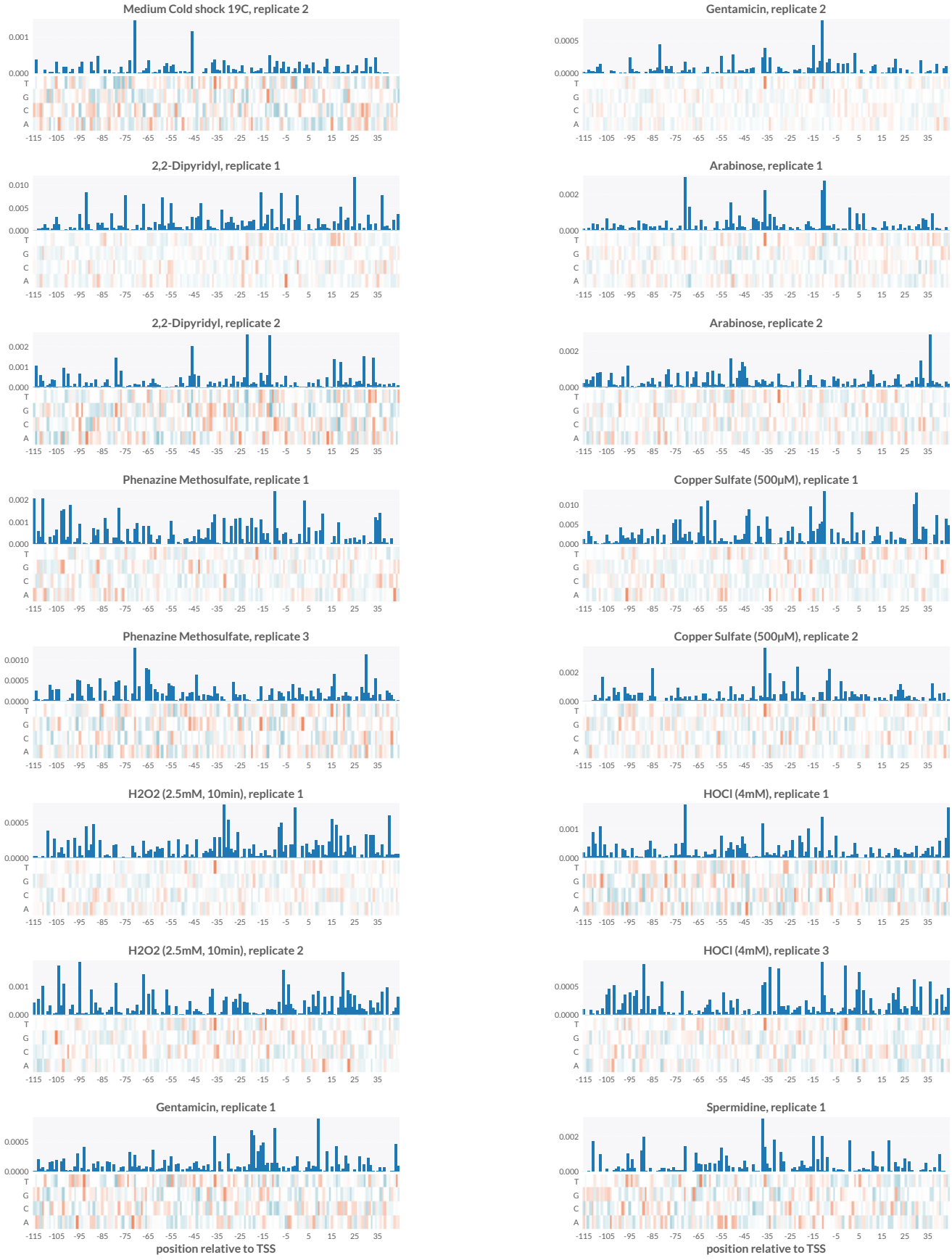
ratA_yfjF_predicted



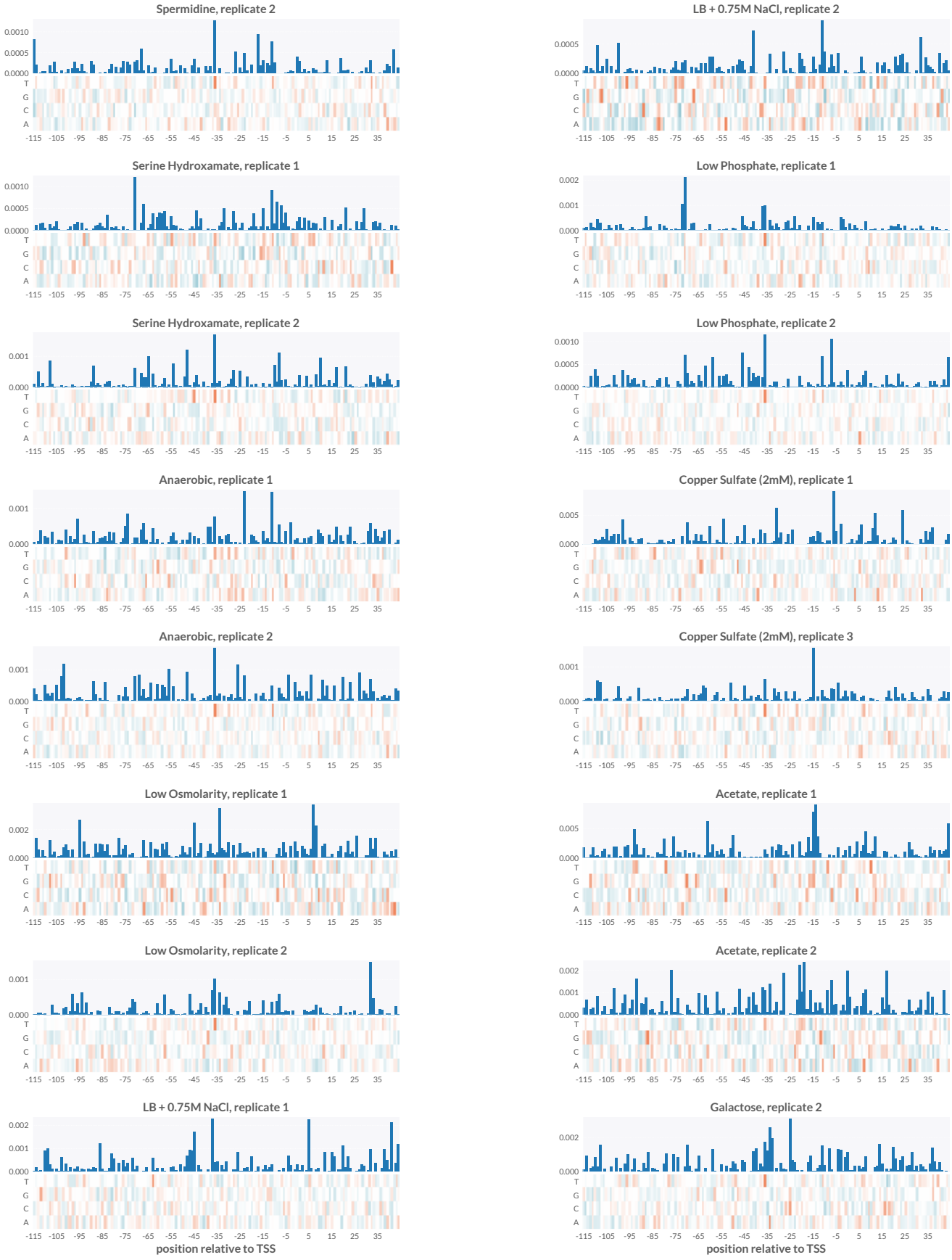
ratA_yfjF_predicted



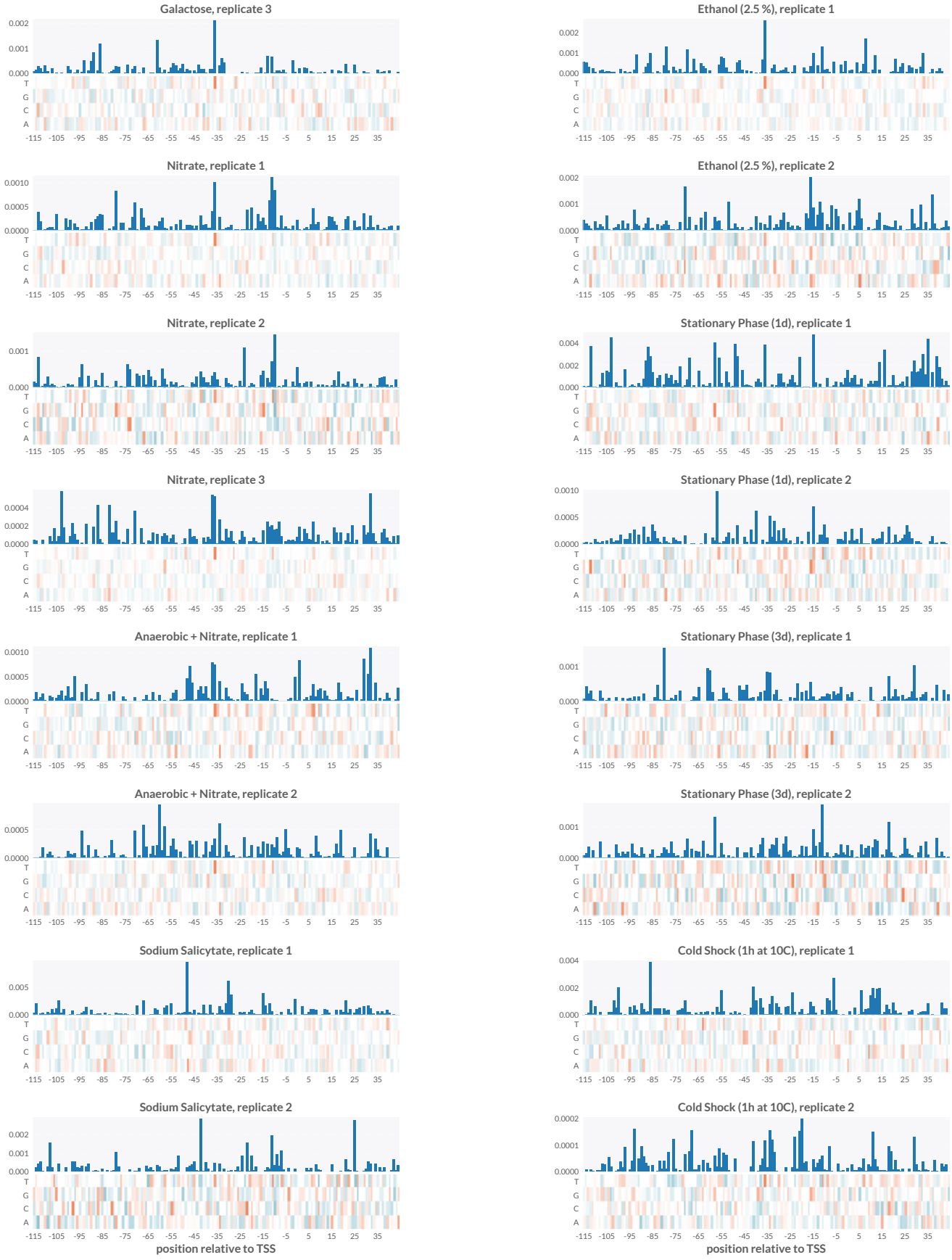
ratA_yfjF_predicted



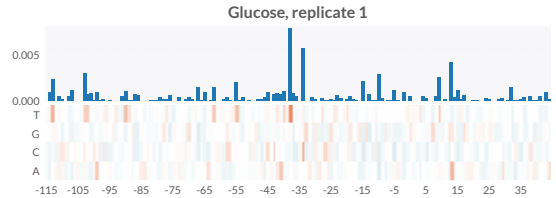
ratA_yfjF_predicted

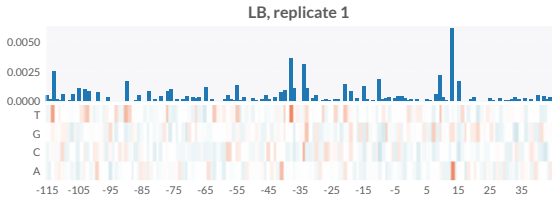


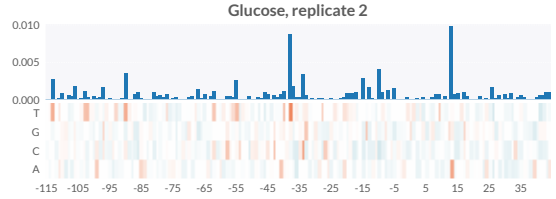
ratA_yfjF_predicted

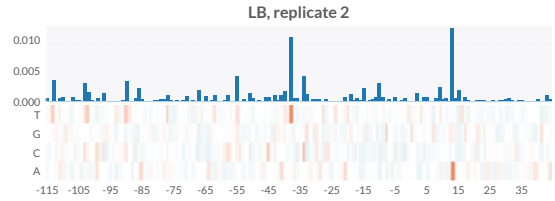


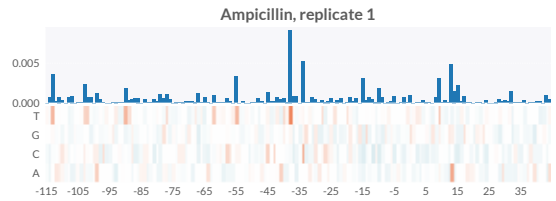
rcsBp1

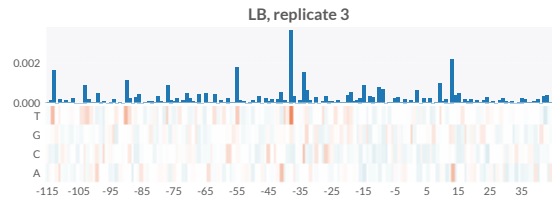

Glucose, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

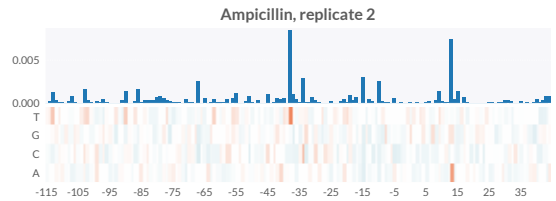

LB, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

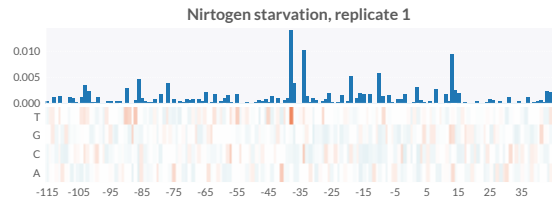

Glucose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

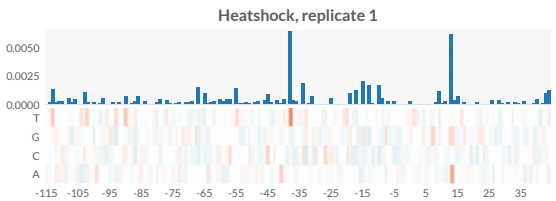

LB, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

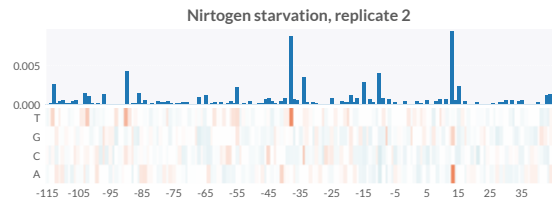

Ampicillin, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

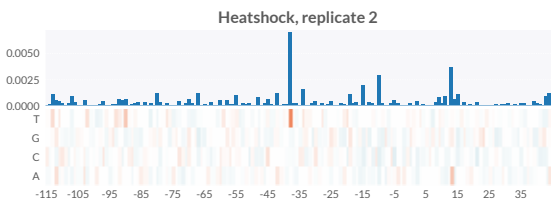

LB, replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

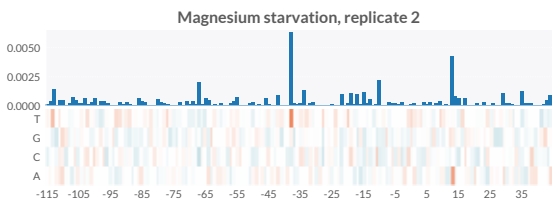

Ampicillin, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

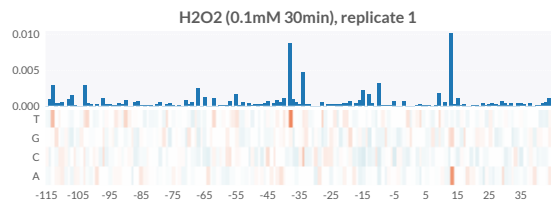

Nirtogen starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

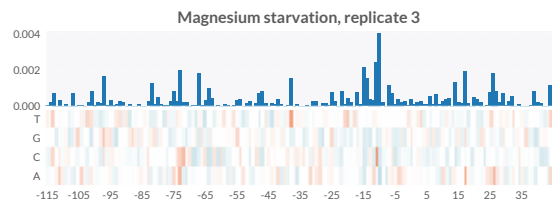

Heatshock, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

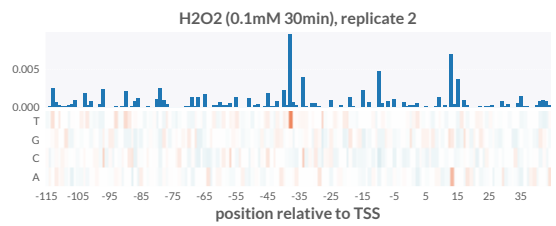

Nirtogen starvation, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

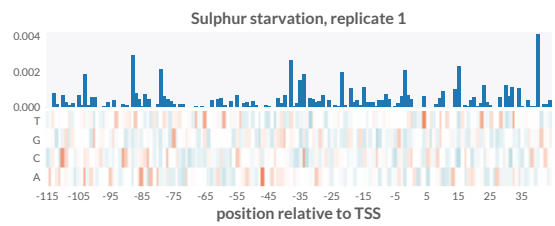

Heatshock, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

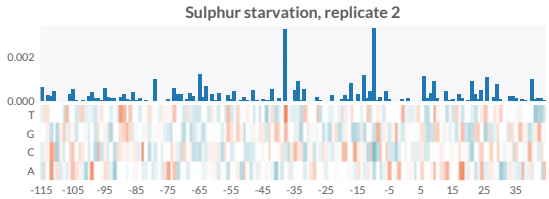

H2O2 (0.1mM 30min), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

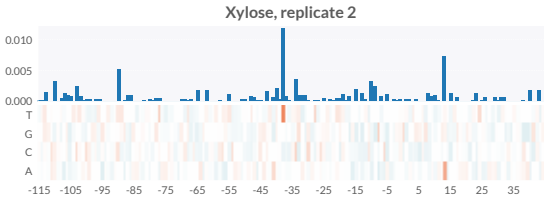

Magnesium starvation, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

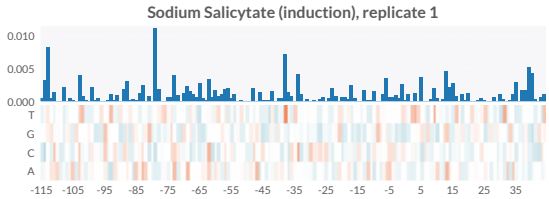

H2O2 (0.1mM 30min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

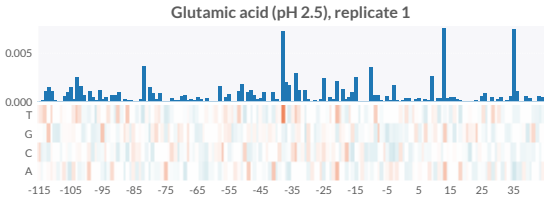

Sulphur starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

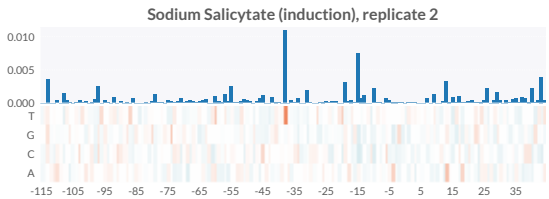
rcsBp1

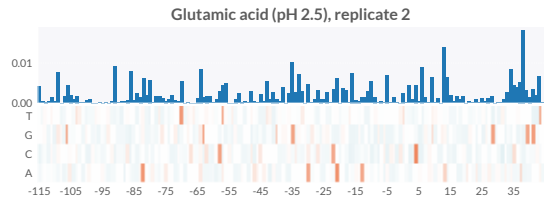

Sulphur starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

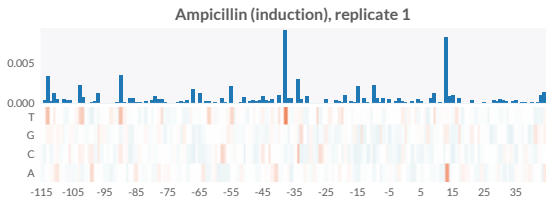

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

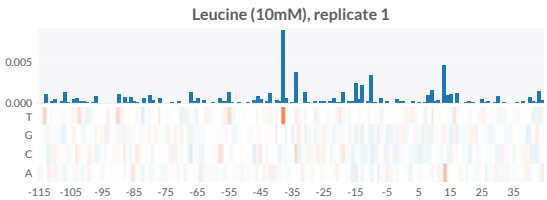

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

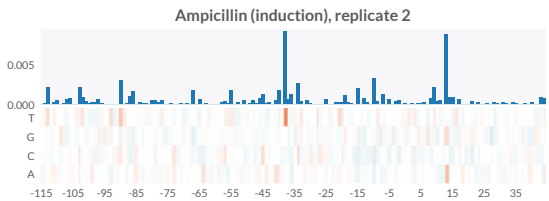

Glutamic acid (pH 2.5), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

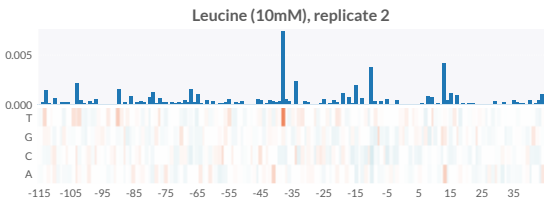

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

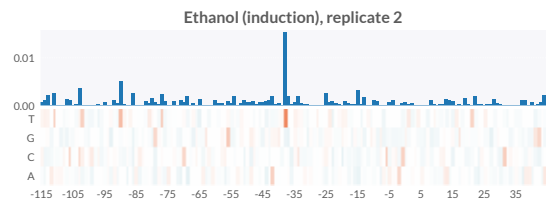

Glutamic acid (pH 2.5), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

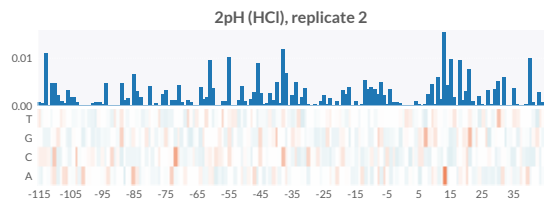

Ampicillin (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

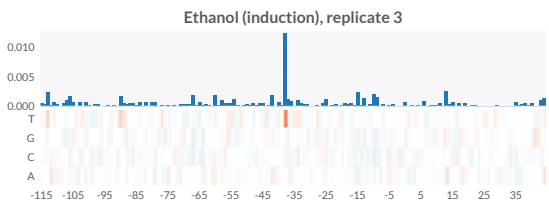

Leucine (10mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

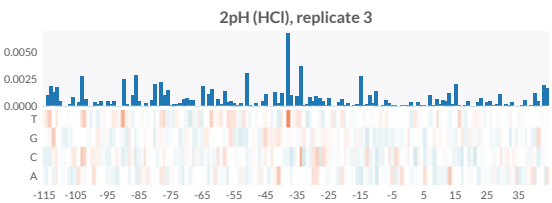

Ampicillin (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

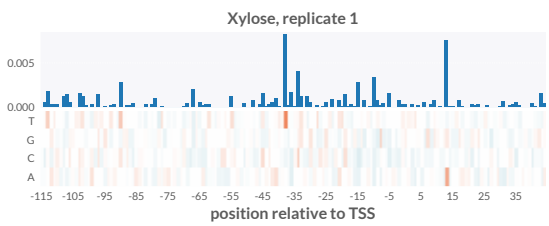

Leucine (10mM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

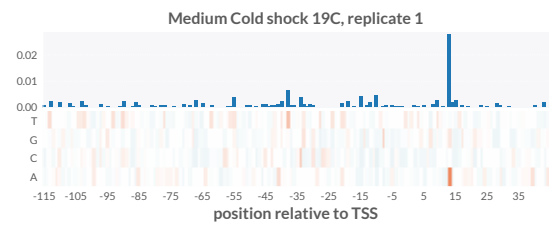

Ethanol (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Ethanol (induction), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

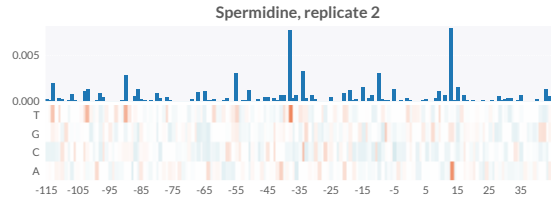

Xylose, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

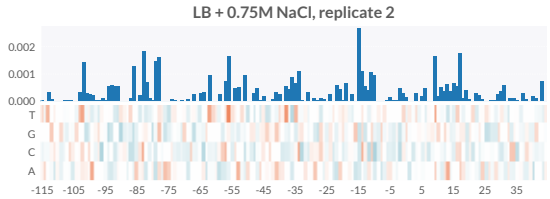

Medium Cold shock 19C, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

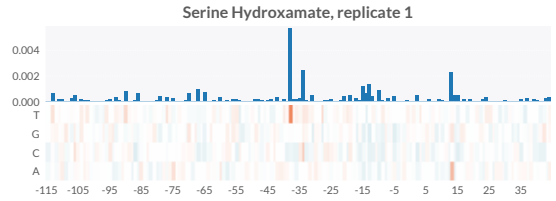
rcsBp1

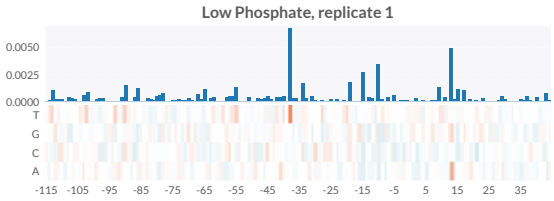

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

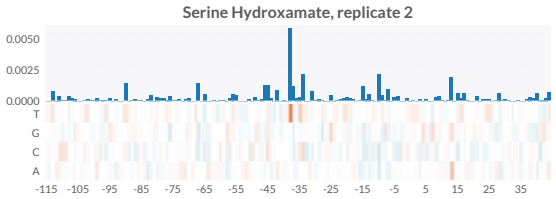
rcsBp1

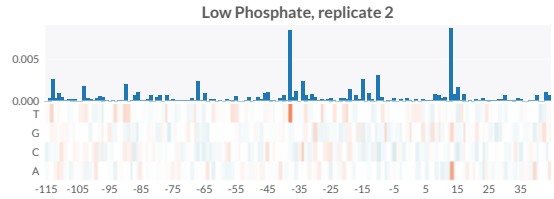

Spermidine, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

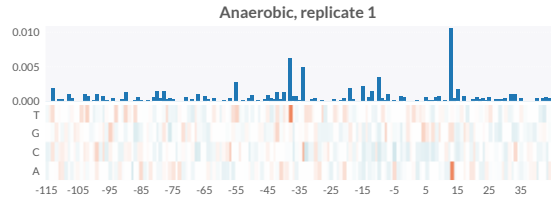

LB + 0.75M NaCl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

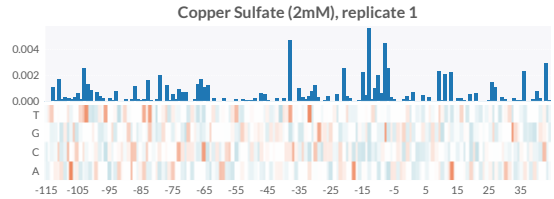

Serine Hydroxamate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

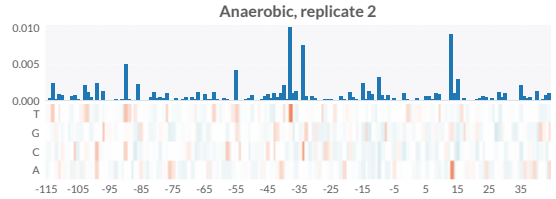

Low Phosphate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

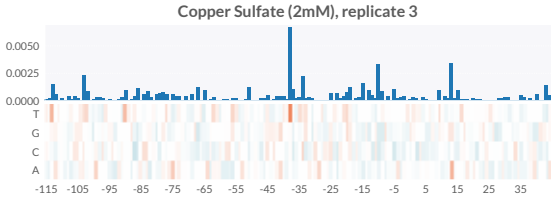

Serine Hydroxamate, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

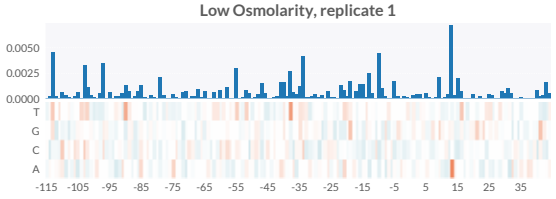

Low Phosphate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

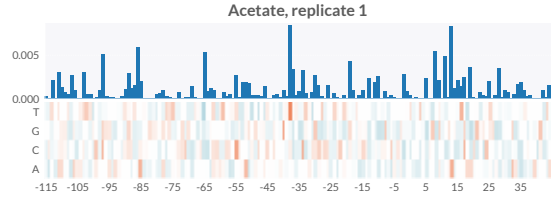

Anaerobic, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

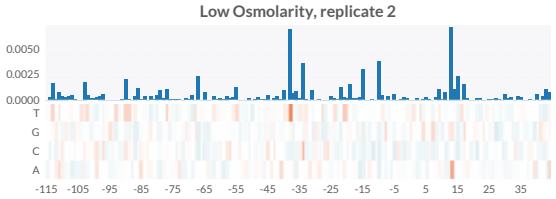

Copper Sulfate (2mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

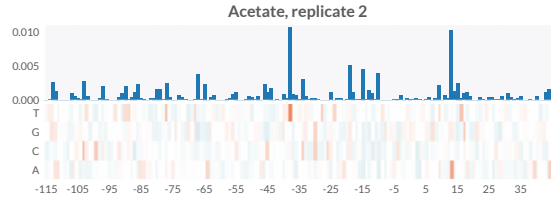

Anaerobic, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

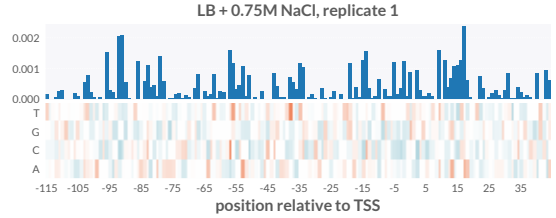

Copper Sulfate (2mM), replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

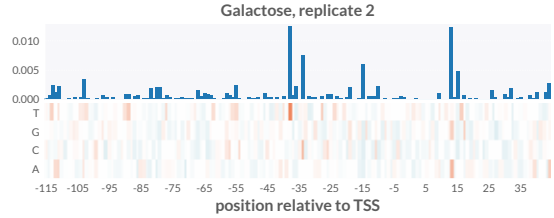

Low Osmolarity, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

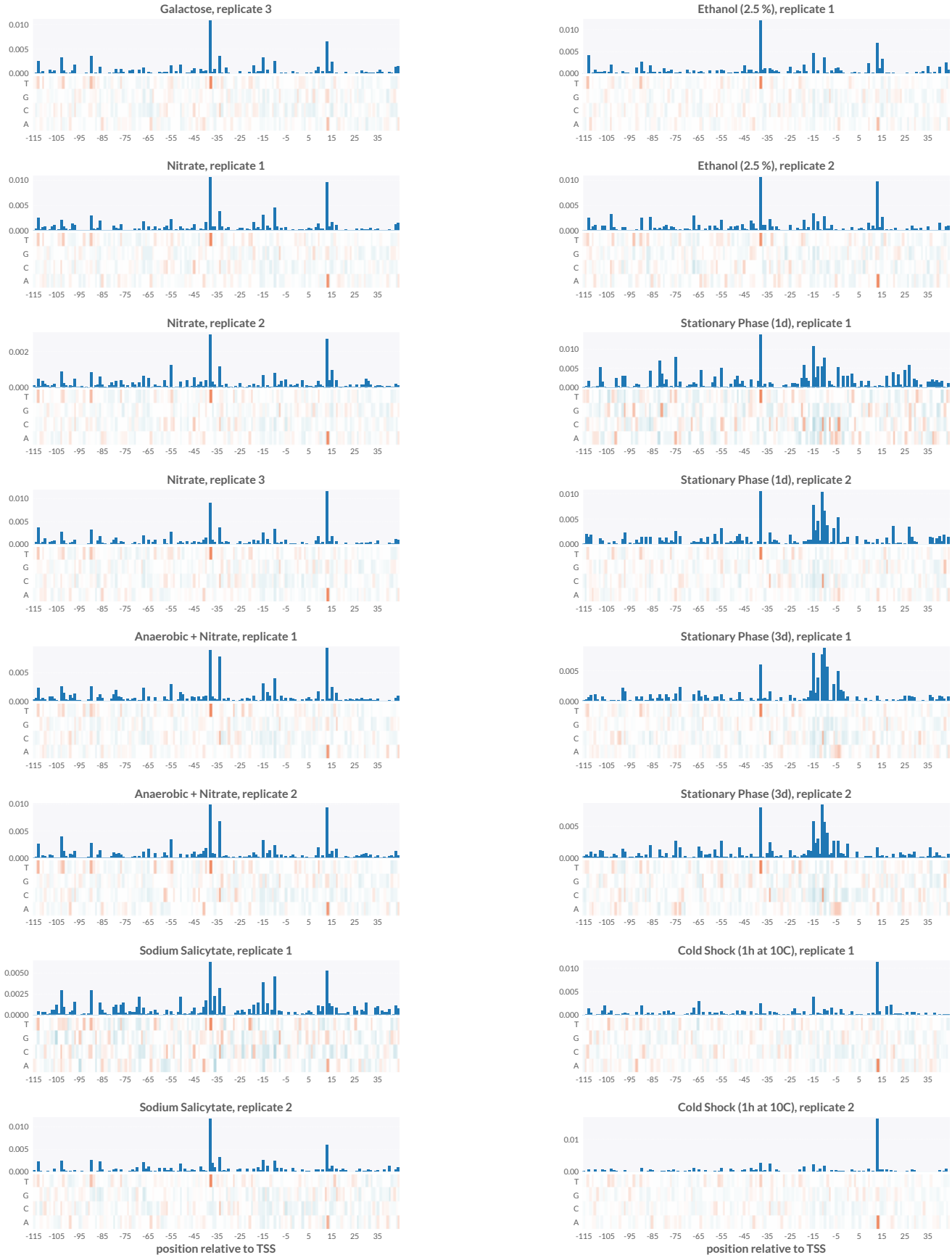

Low Osmolarity, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

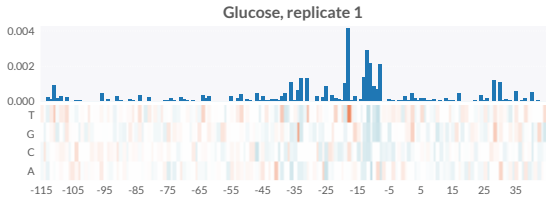

LB + 0.75M NaCl, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

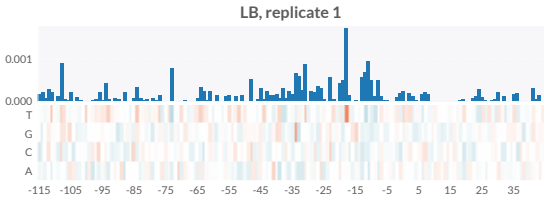

Galactose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

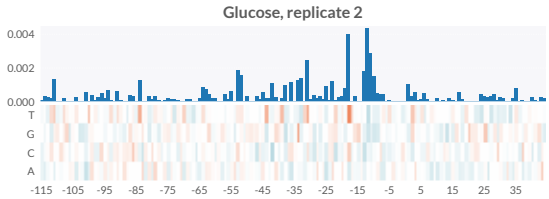
rcsBp1

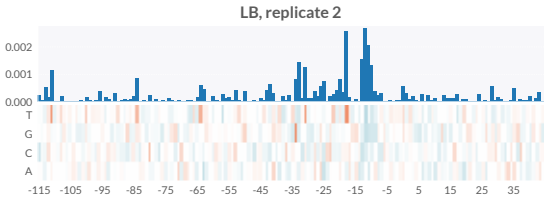

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
position relative to TSS
position relative to TSS

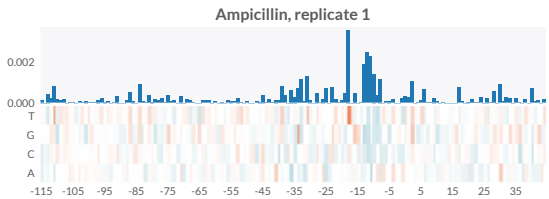
rcsBp2

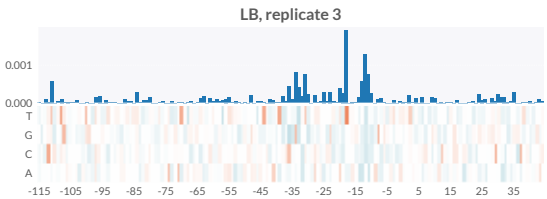

Glucose, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

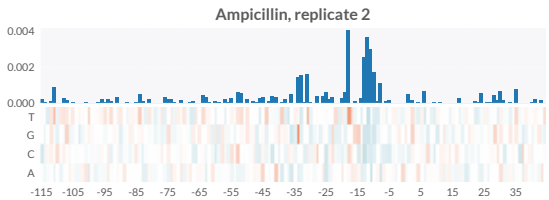

LB, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

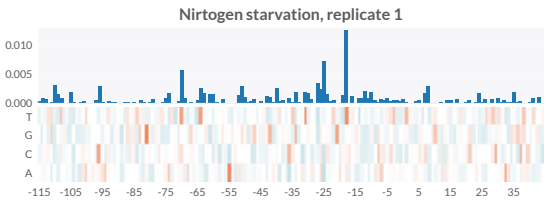

Glucose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

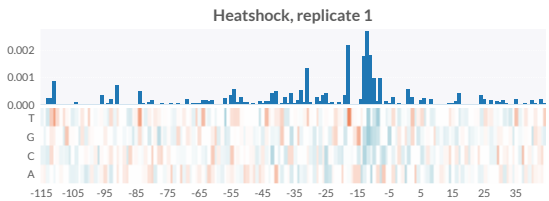

LB, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

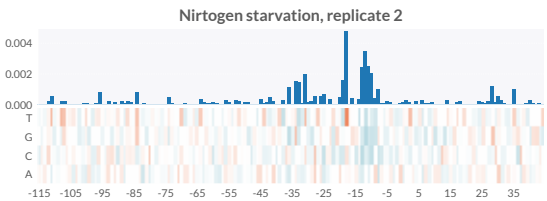

Ampicillin, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

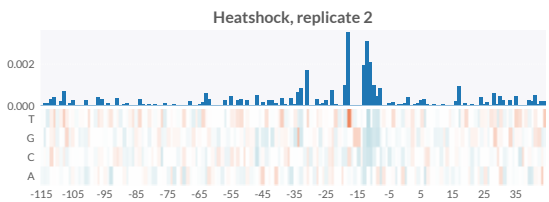

LB, replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

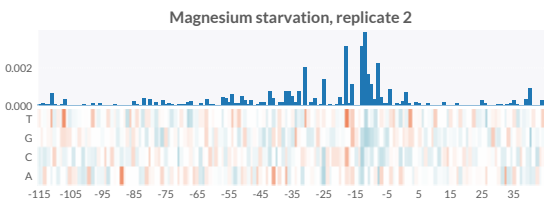

Ampicillin, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

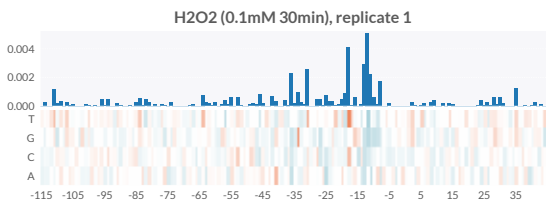

Nirtogen starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

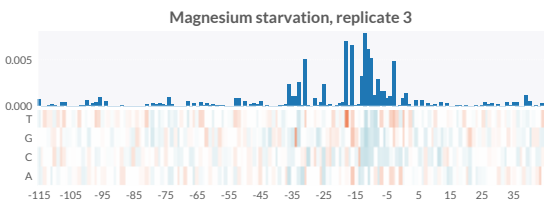

Heatshock, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

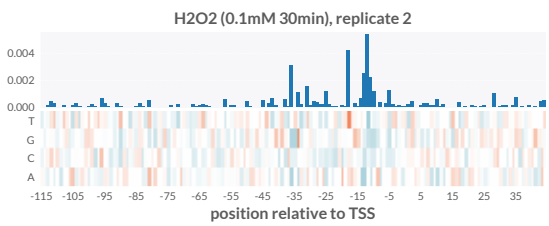

Nirtogen starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

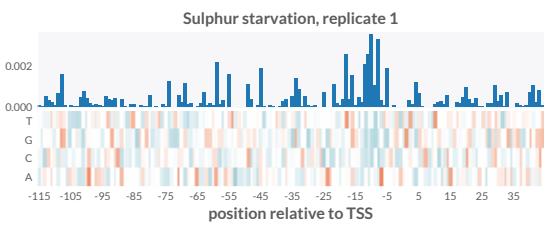

Heatshock, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

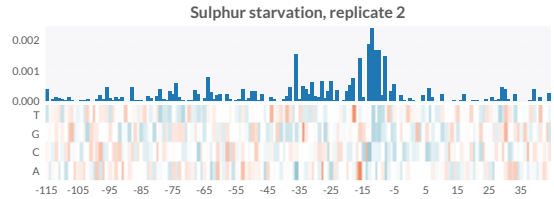

H2O2 (0.1mM 30min), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

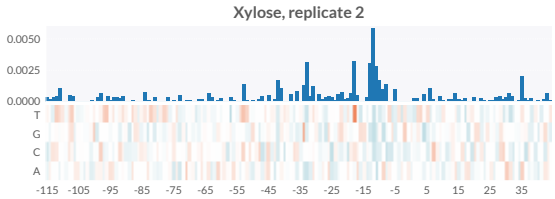

Magnesium starvation, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

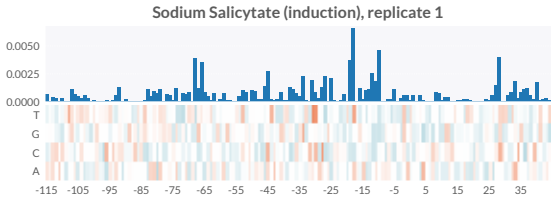

H2O2 (0.1mM 30min), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

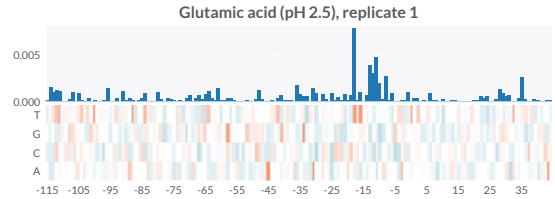

Sulphur starvation, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

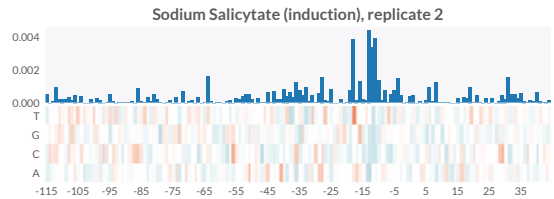
rcsBp2

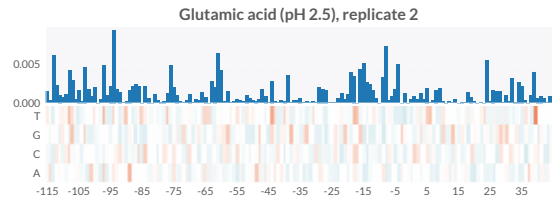

Sulphur starvation, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

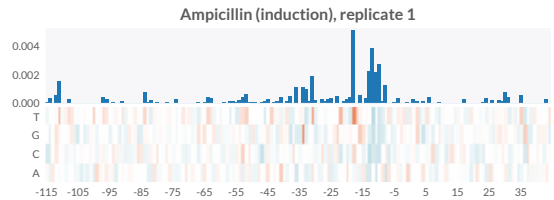

Xylose, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

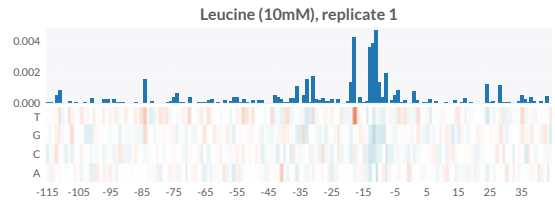

Sodium Salicytate (induction), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

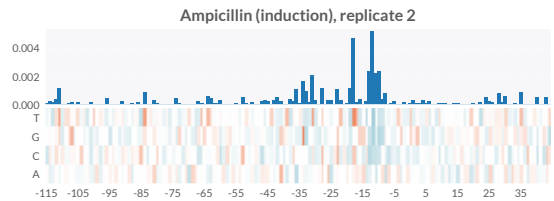

Glutamic acid (pH 2.5), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

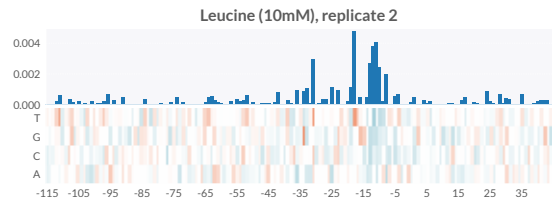

Sodium Salicytate (induction), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

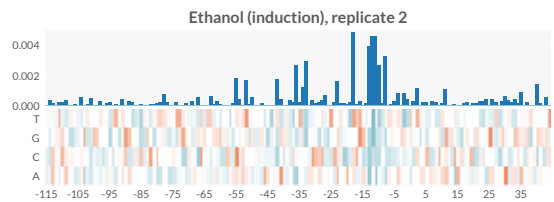

Glutamic acid (pH 2.5), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

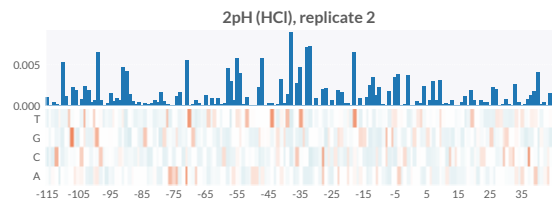

Ampicillin (induction), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

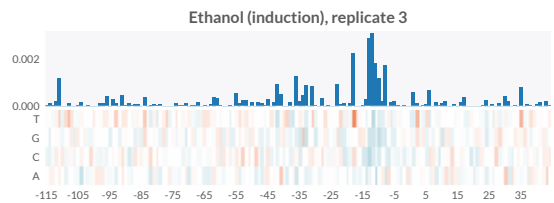

Leucine (10mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

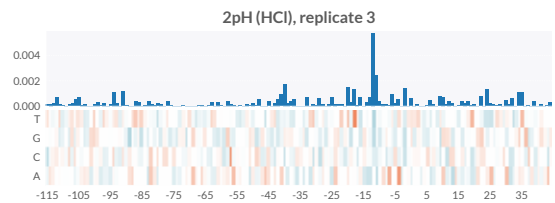

Ampicillin (induction), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

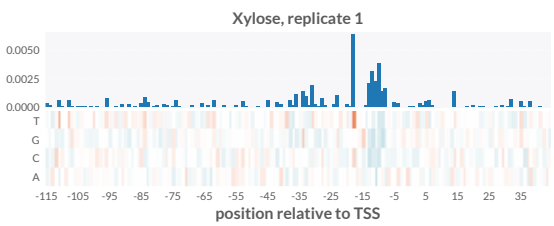

Leucine (10mM), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

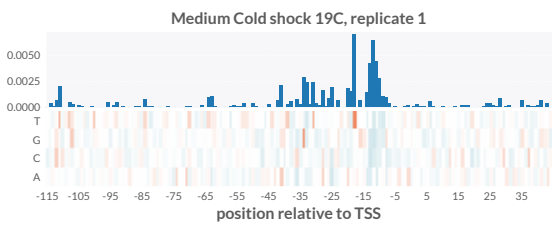

Ethanol (induction), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Ethanol (induction), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

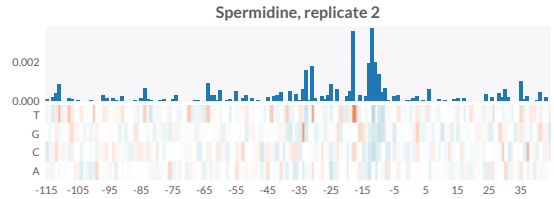

Xylose, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

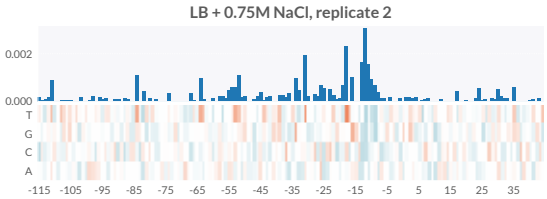

Medium Cold shock 19C, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

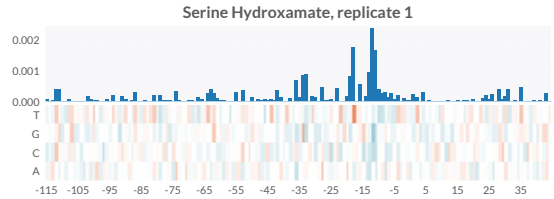
rcsBp2

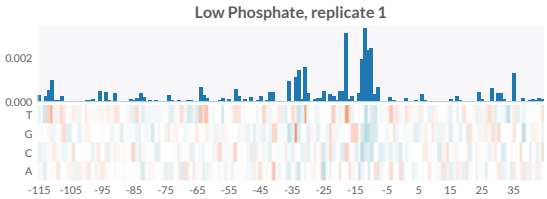

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

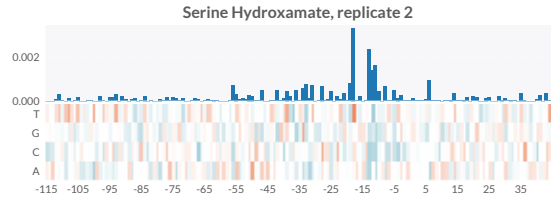
rcsBp2

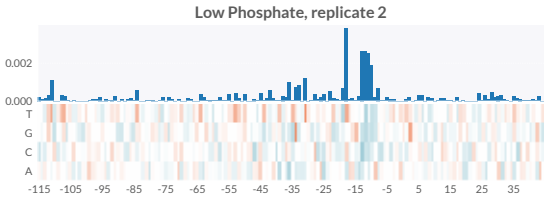

Spermidine, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

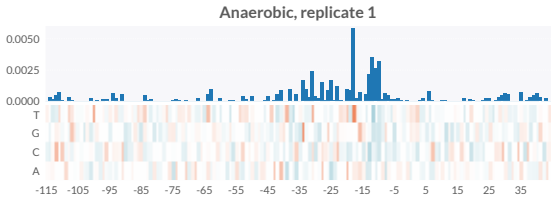

LB + 0.75M NaCl, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

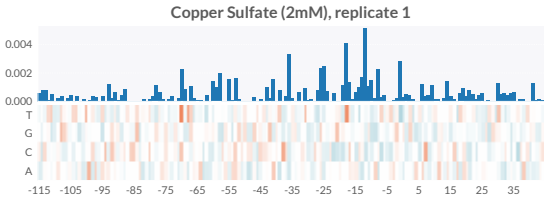

Serine Hydroxamate, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

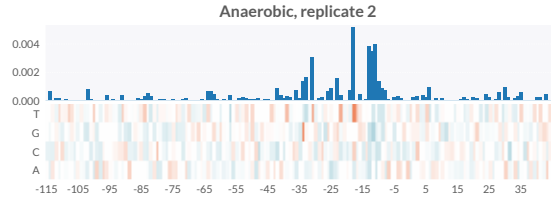

Low Phosphate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

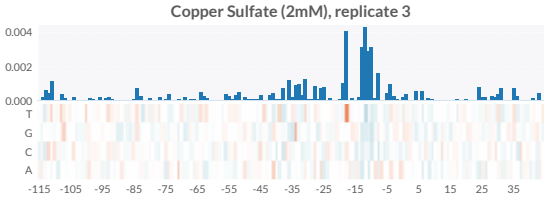

Serine Hydroxamate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

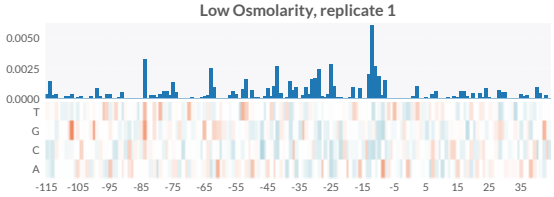

Low Phosphate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

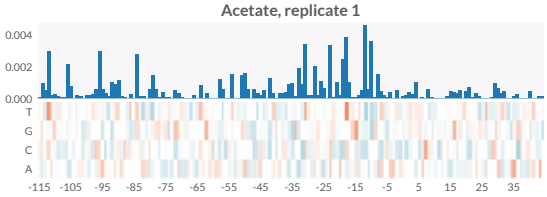

Anaerobic, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

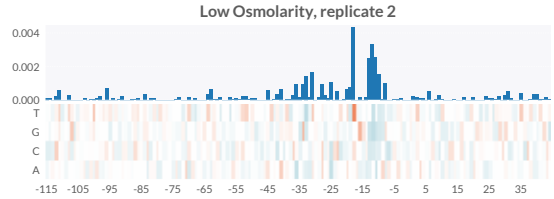

Copper Sulfate (2mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

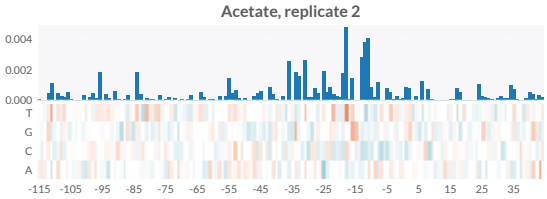

Anaerobic, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

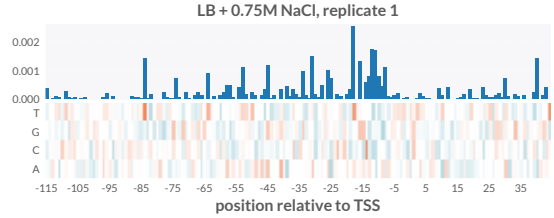

Copper Sulfate (2mM), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

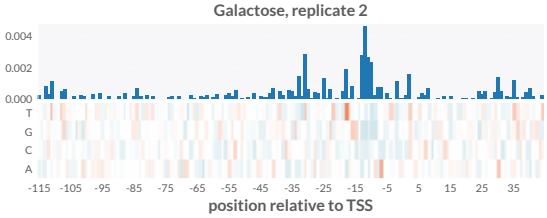

Low Osmolarity, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Low Osmolarity, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

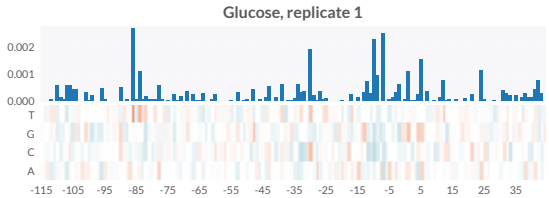

LB + 0.75M NaCl, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

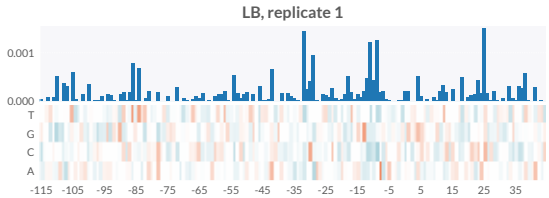

Galactose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

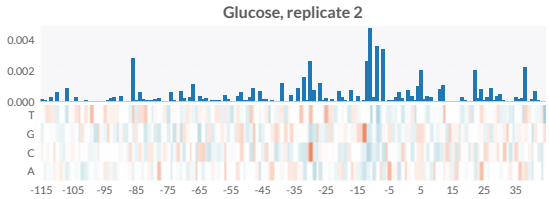
rcsBp2

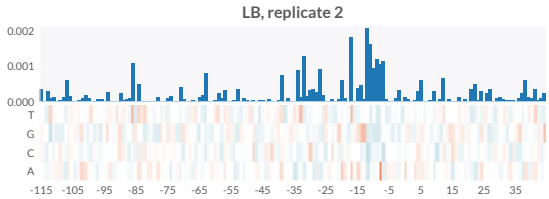

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

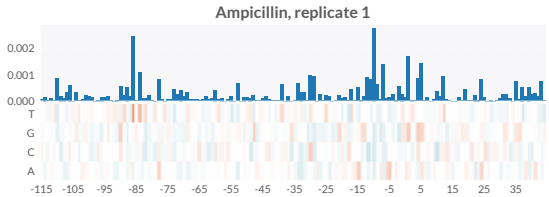
rcsDp

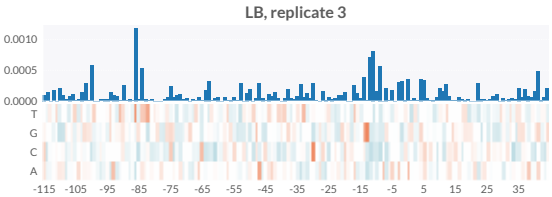

Glucose, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

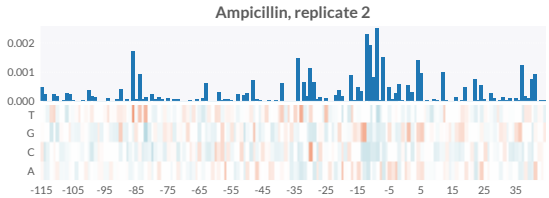

LB, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

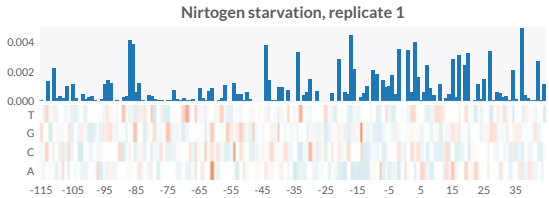

Glucose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

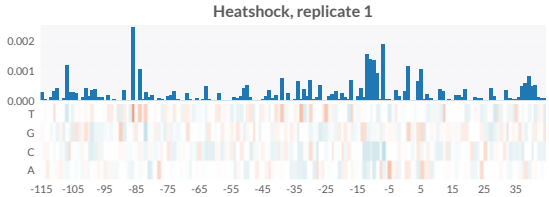

LB, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

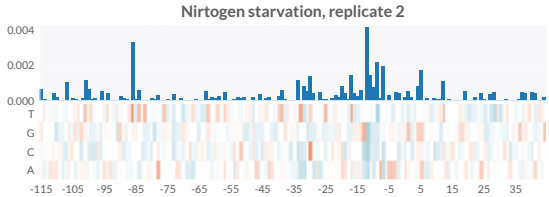

Ampicillin, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

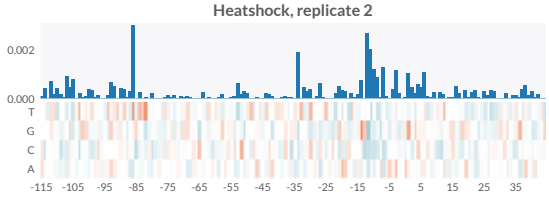

LB, replicate 3
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

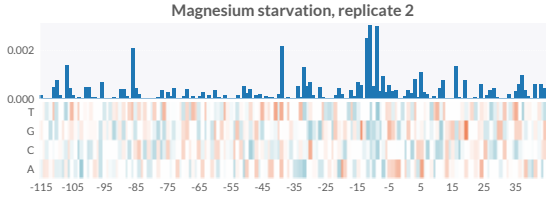

Ampicillin, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

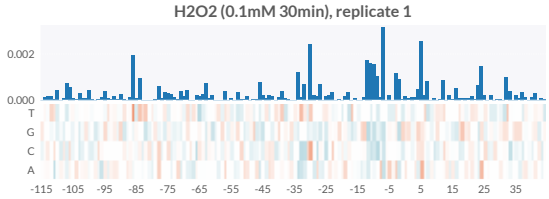

Nirtogen starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

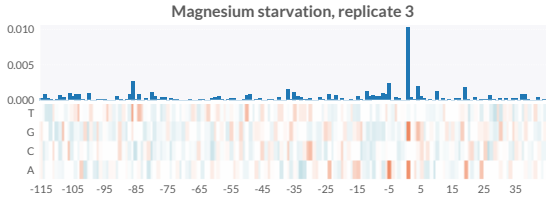

Heatshock, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

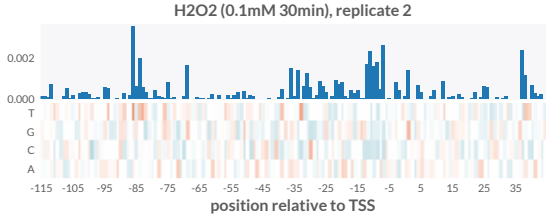

Nirtogen starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

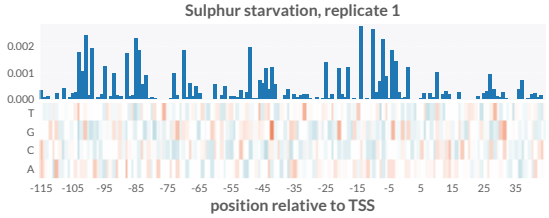

Heatshock, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

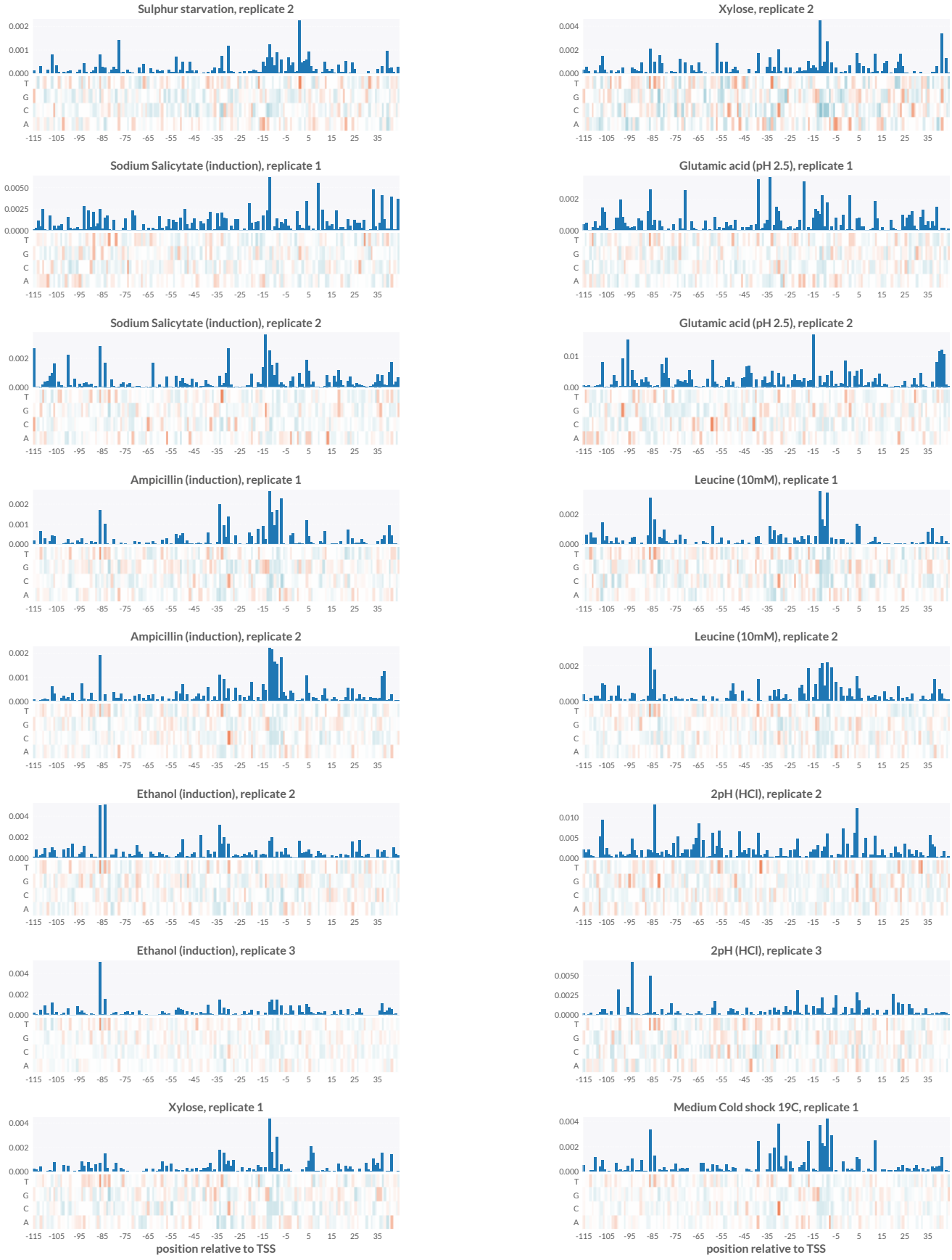

H2O2 (0.1mM 30min), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

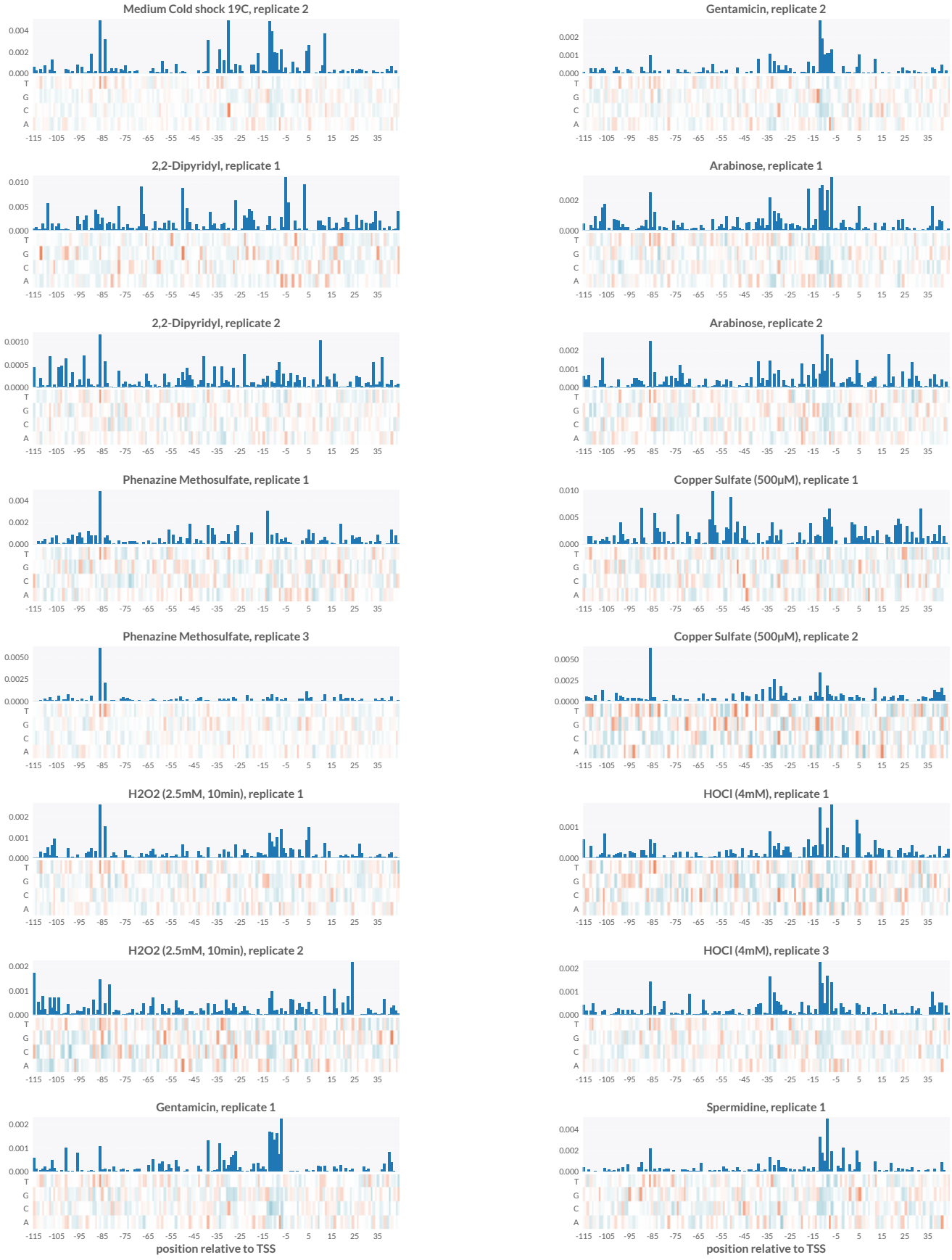

H2O2 (0.1mM 30min), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Sulphur starvation, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

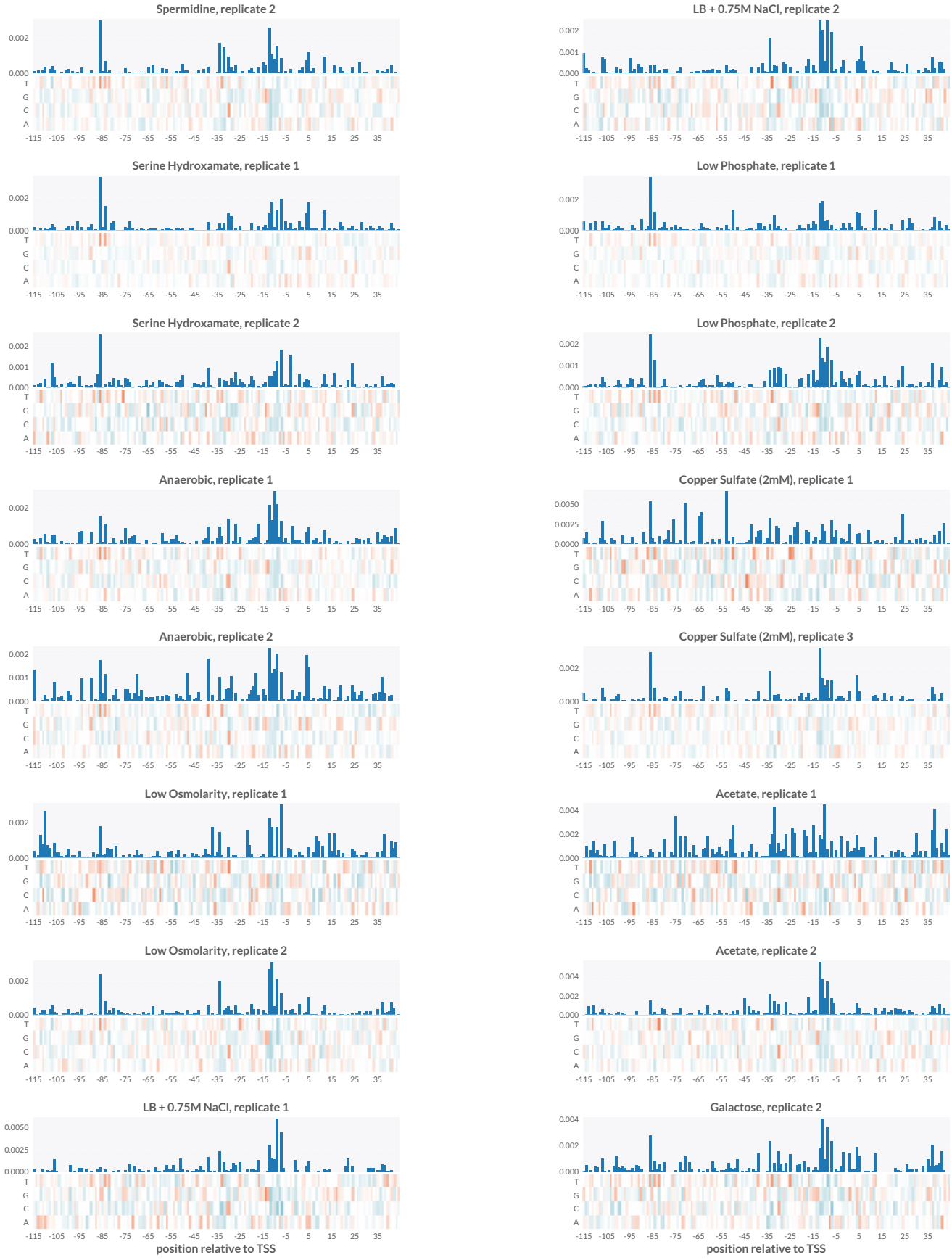
rcsDp


Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

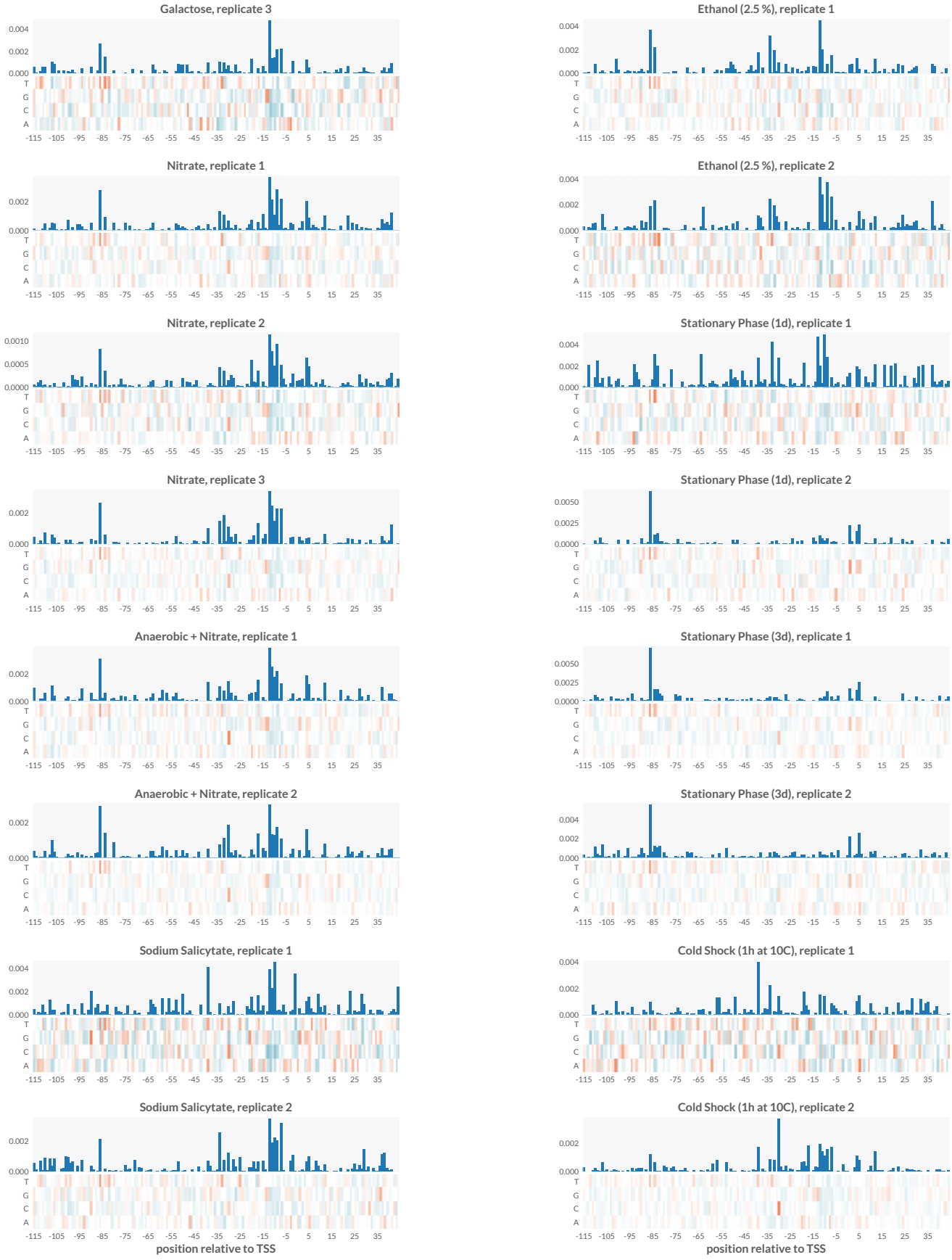
rcsDp


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

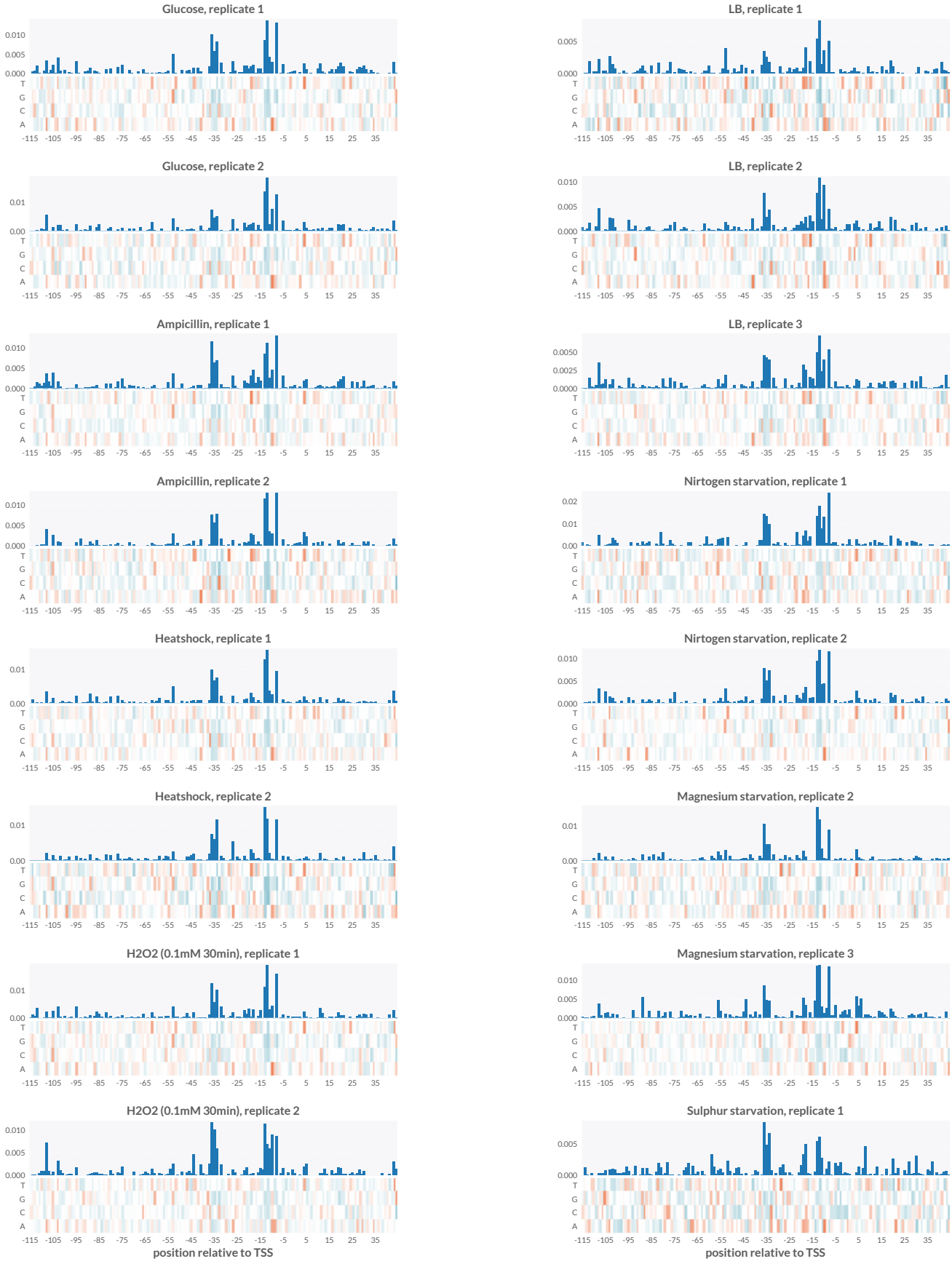
rcsDp


Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

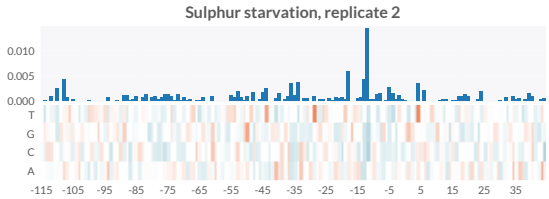
rcsDp

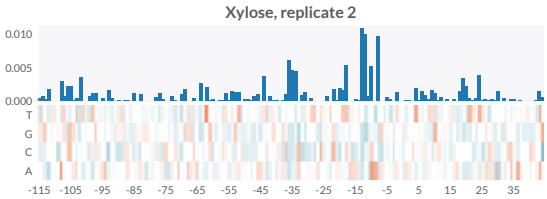

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

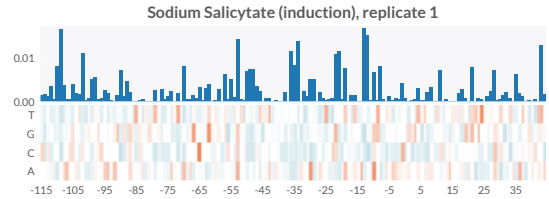
rdlDp

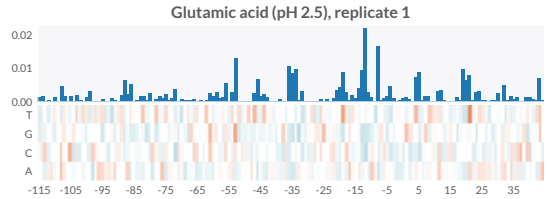

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

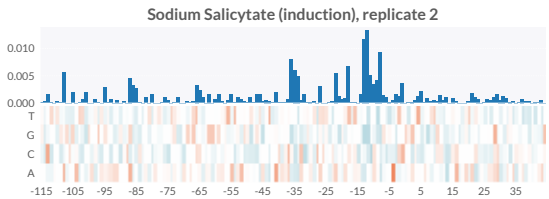
rdlDp

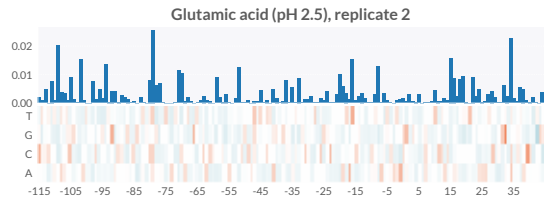

Sulphur starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

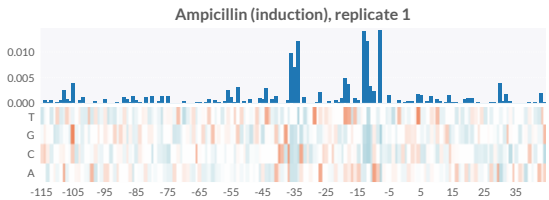

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

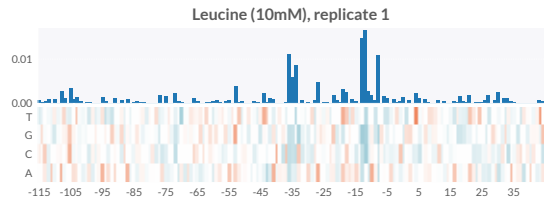

Sodium Salicytate (induction), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

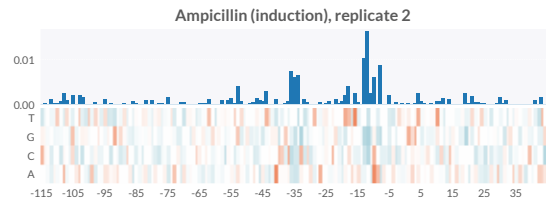

Glutamic acid (pH 2.5), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

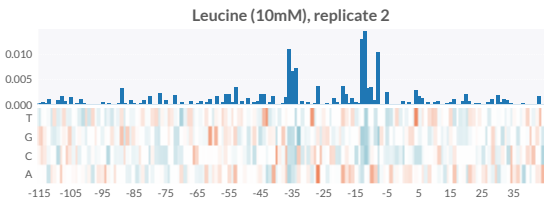

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

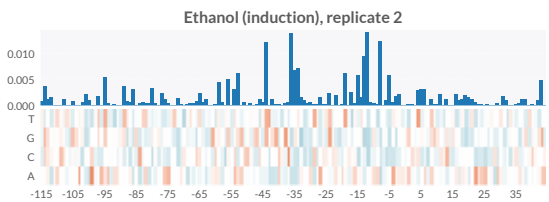

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

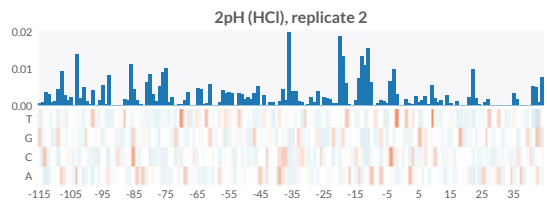

Ampicillin (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

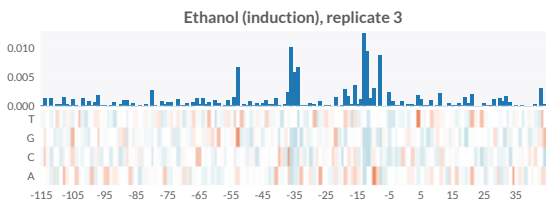

Leucine (10mM), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

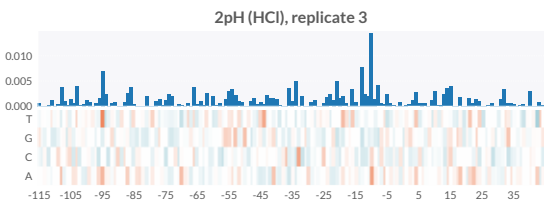

Ampicillin (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

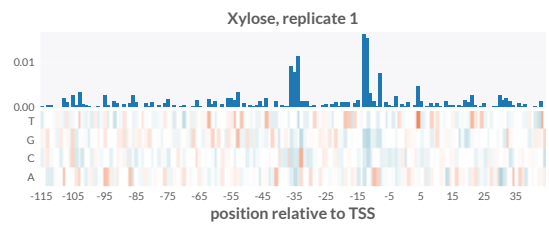

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

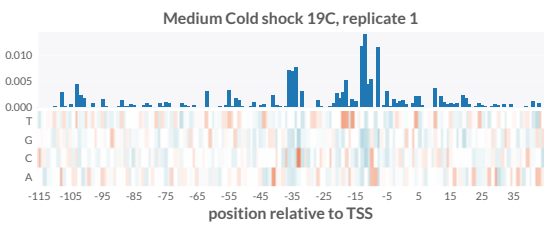

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

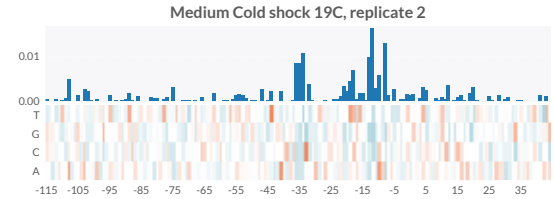

Ethanol (induction), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

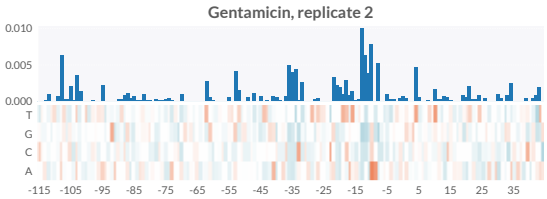

2pH (HCl), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

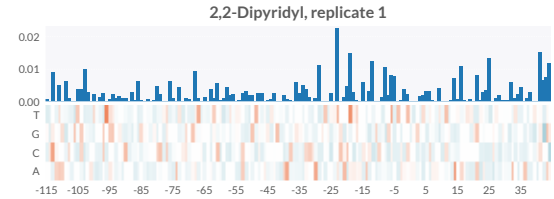

Xylose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

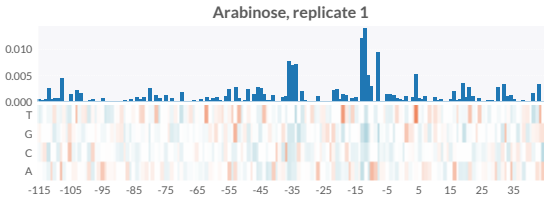

Medium Cold shock 19C, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

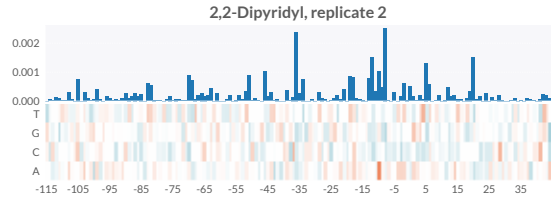
rdlDp

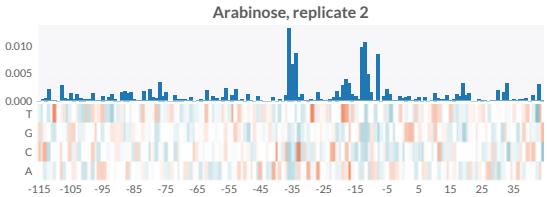

Medium Cold shock 19C, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

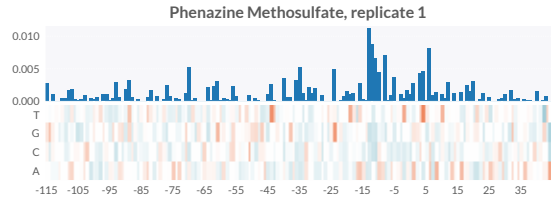

Gentamicin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

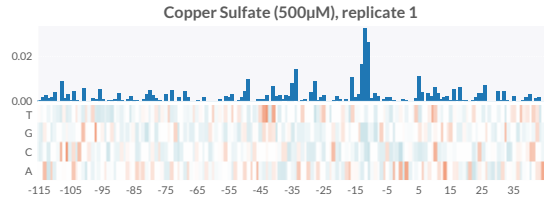

2,2-Dipyridyl, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

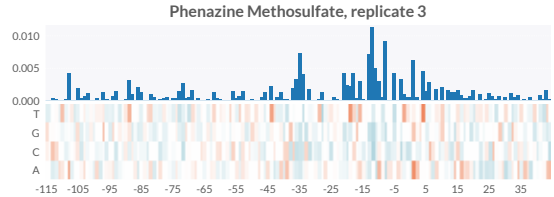

Arabinose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

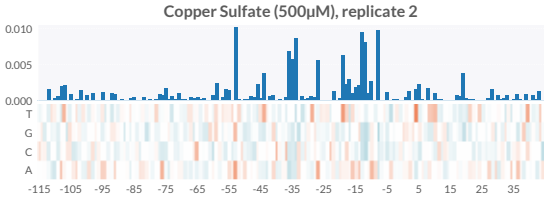

2,2-Dipyridyl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

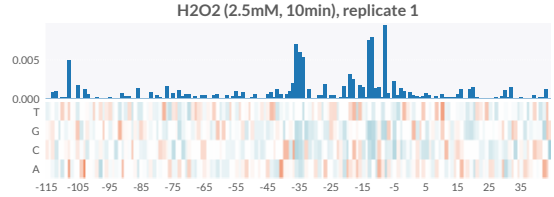

Arabinose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

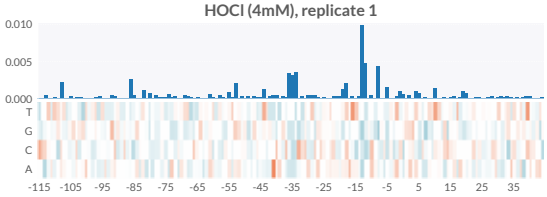

Phenazine Methosulfate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

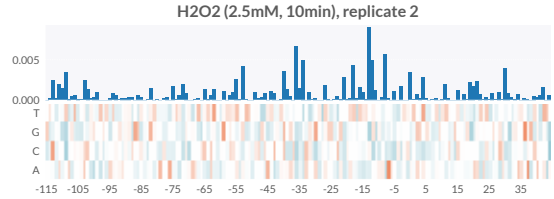

Copper Sulfate (500µM), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

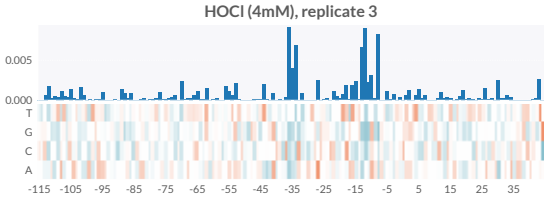

Phenazine Methosulfate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

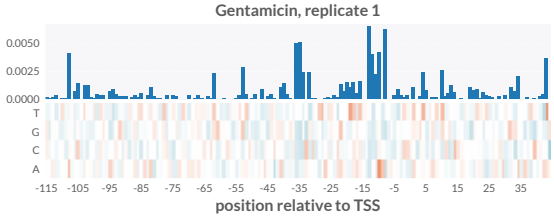

Copper Sulfate (500µM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

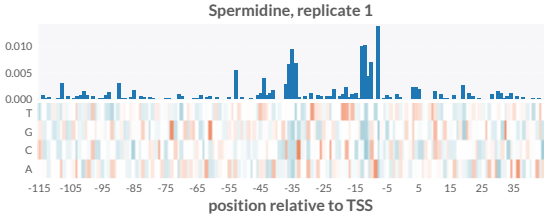

H2O2 (2.5mM, 10min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

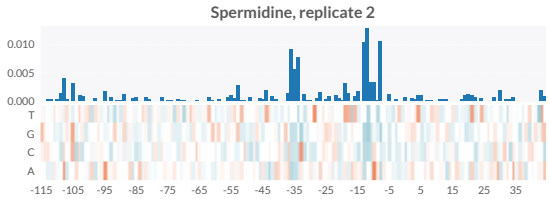

H2O2 (2.5mM, 10min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

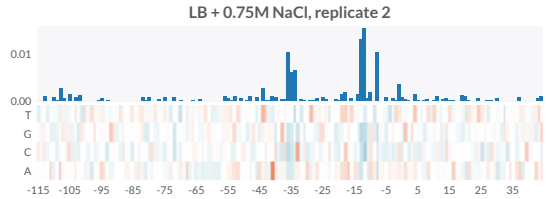

HOCl (4mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

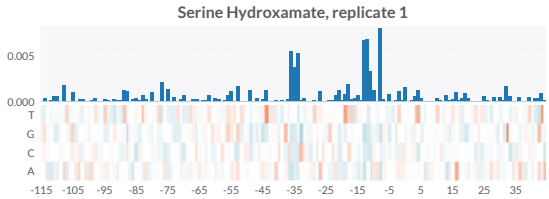

Gentamicin, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

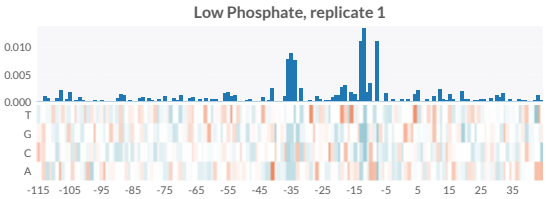

Spermidine, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

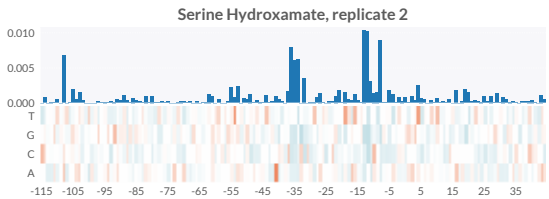
rdlDp

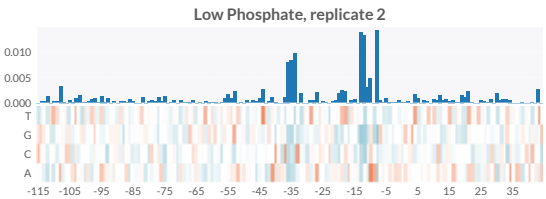

Spermidine, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

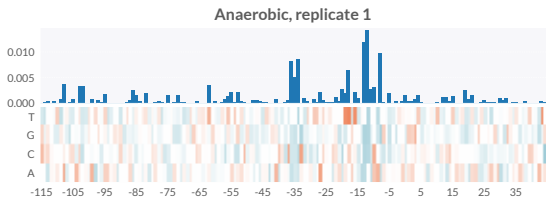

LB + 0.75M NaCl, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

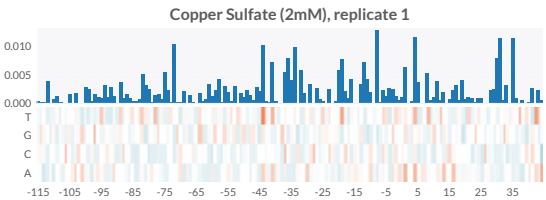

Serine Hydroxamate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

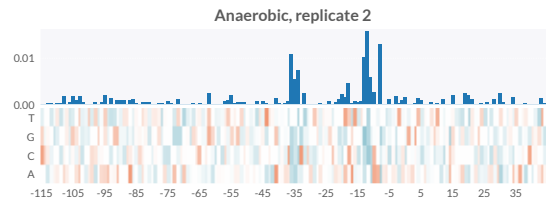

Low Phosphate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

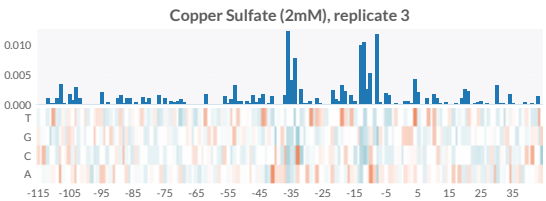

Serine Hydroxamate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

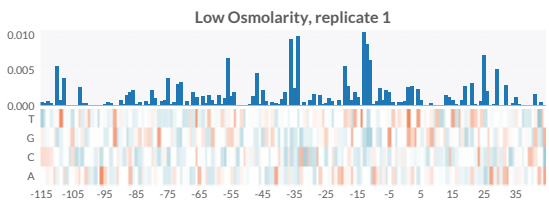

Low Phosphate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

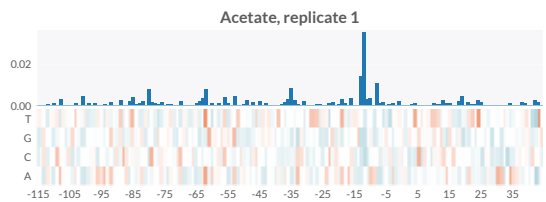

Anaerobic, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

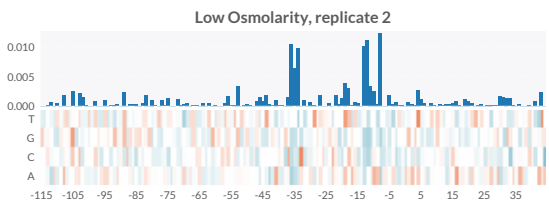

Copper Sulfate (2mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

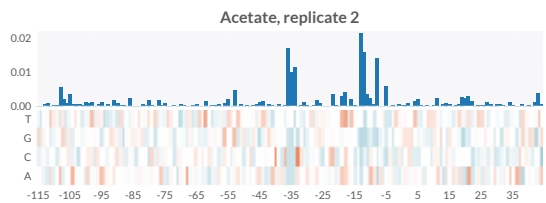

Anaerobic, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

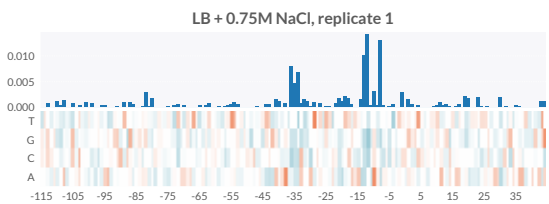

Copper Sulfate (2mM), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

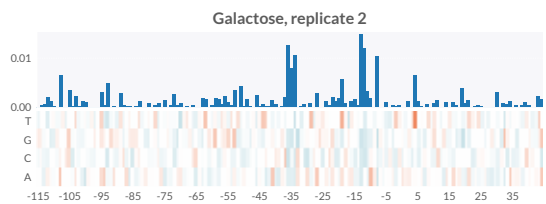

Low Osmolarity, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

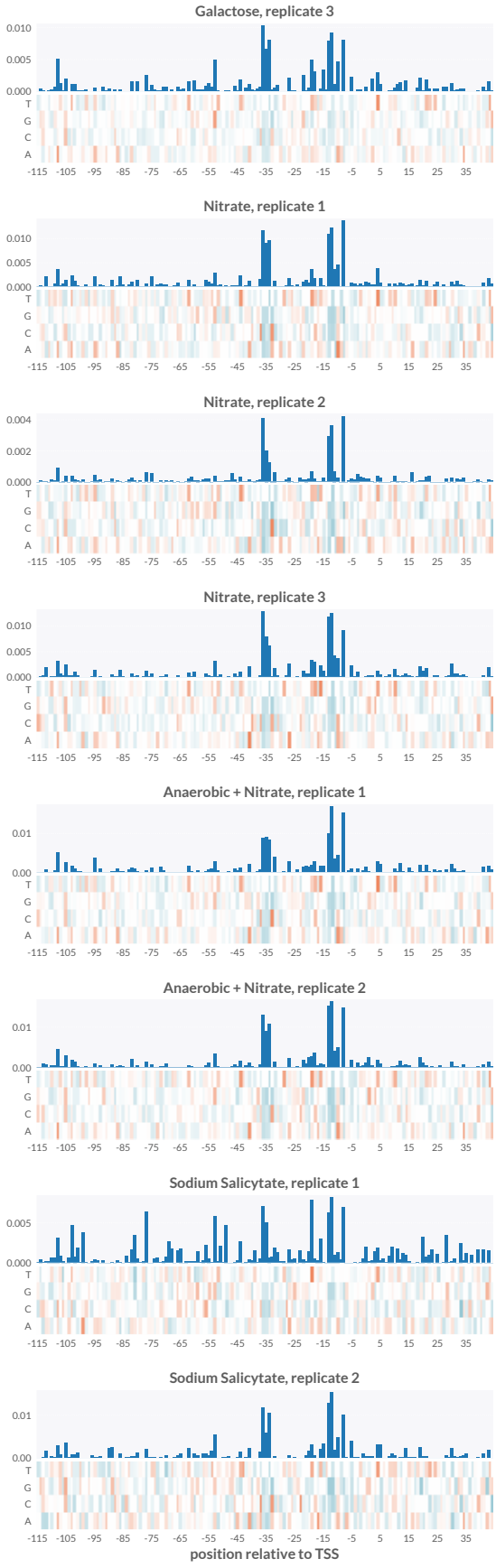

Low Osmolarity, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


LB + 0.75M NaCl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

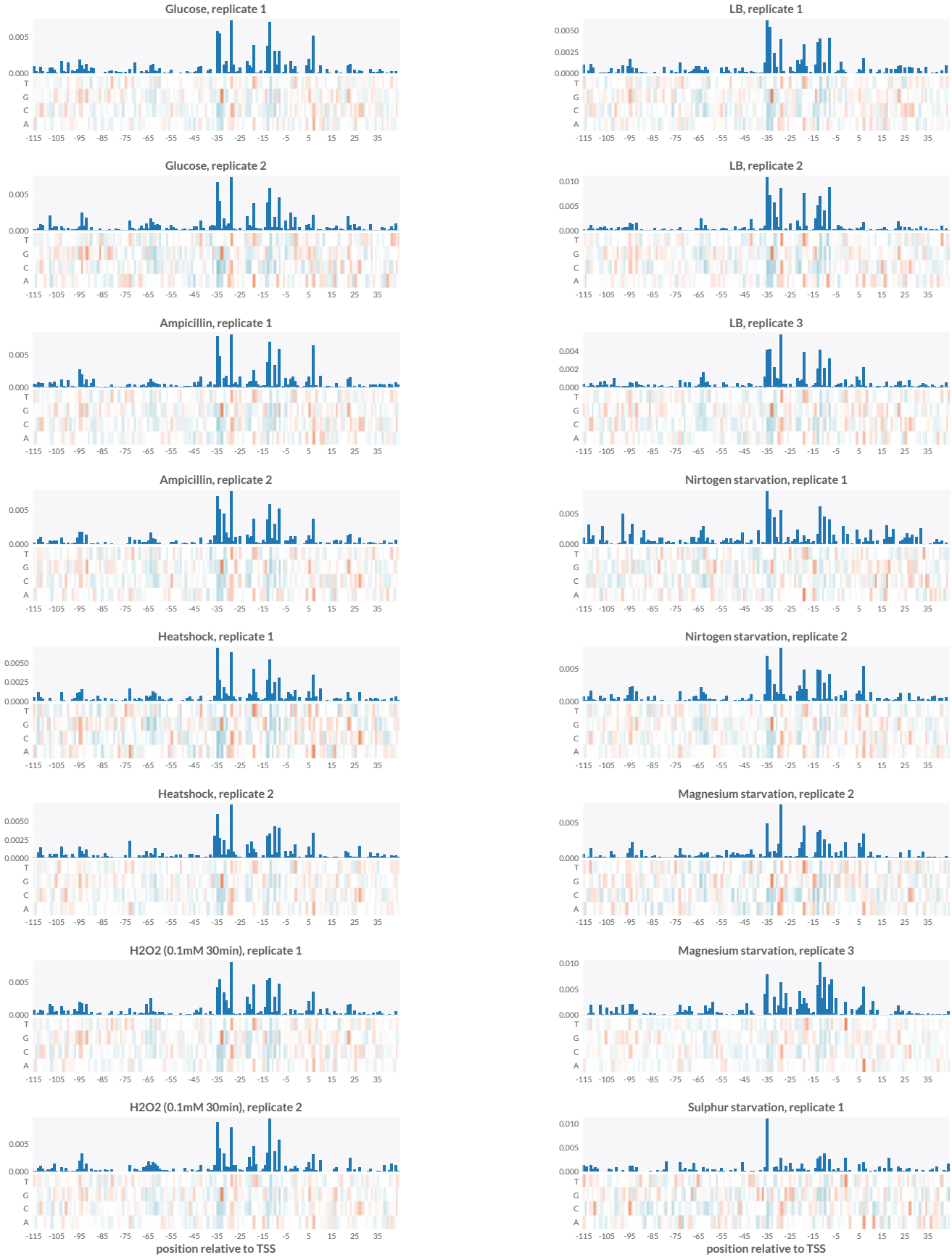

Galactose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

rdlDp

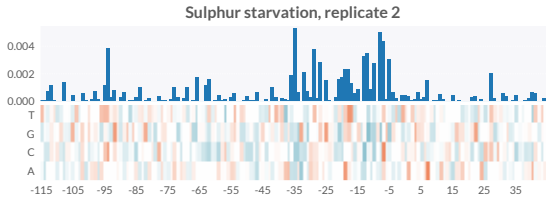

Galactose, replicate 3
Nitrate, replicate 1
Nitrate, replicate 2
Nitrate, replicate 3
Anaerobic + Nitrate, replicate 1
Anaerobic + Nitrate, replicate 2
Sodium Salicytate, replicate 1
Sodium Salicytate, replicate 2
position relative to TSS

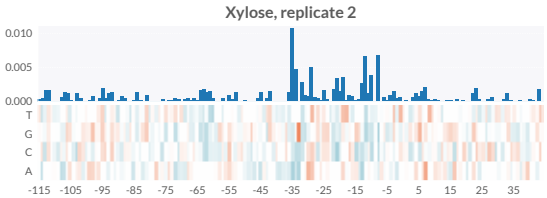

Ethanol (2.5 %), replicate 1
Ethanol (2.5 %), replicate 2
Stationary Phase (1d), replicate 1
Stationary Phase (1d), replicate 2
Stationary Phase (3d), replicate 1
Stationary Phase (3d), replicate 2
Cold Shock (1h at 10C), replicate 1
Cold Shock (1h at 10C), replicate 2
position relative to TSS

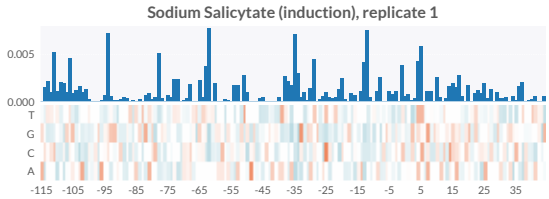
recNp

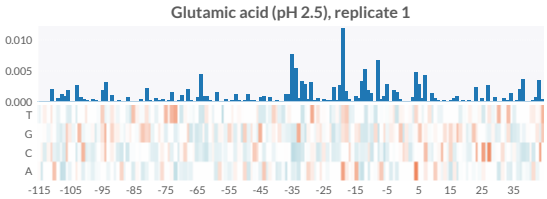

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

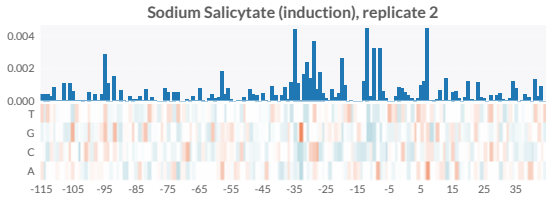
recNp

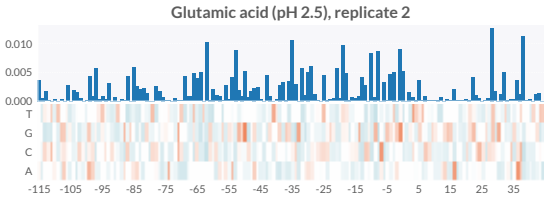

Sulphur starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

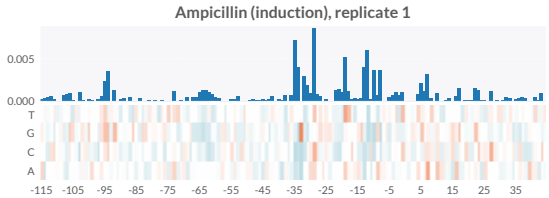

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

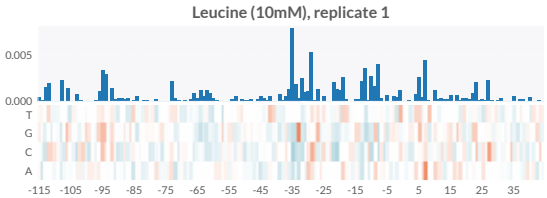

Sodium Salicytate (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

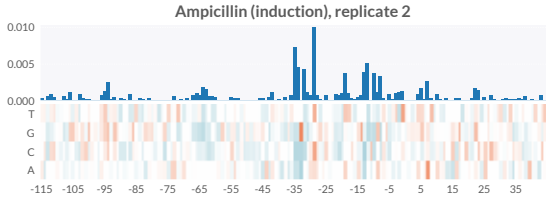

Glutamic acid (pH 2.5), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

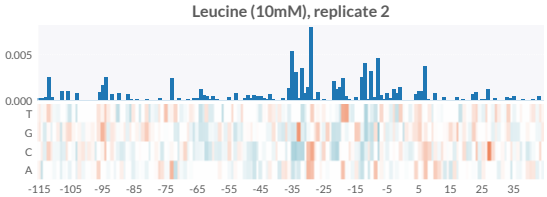

Sodium Salicytate (induction), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

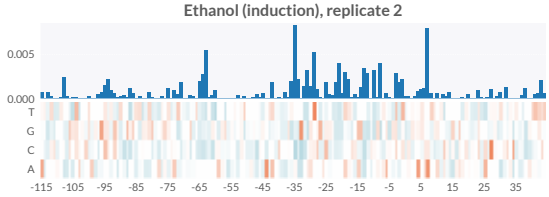

Glutamic acid (pH 2.5), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

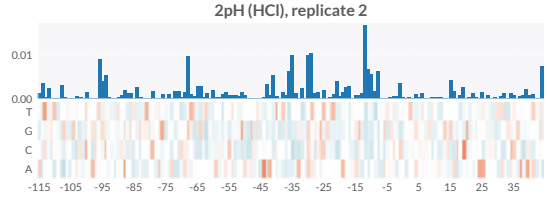

Ampicillin (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

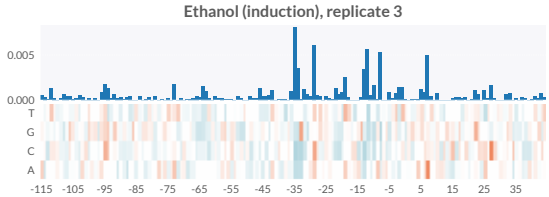

Leucine (10mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

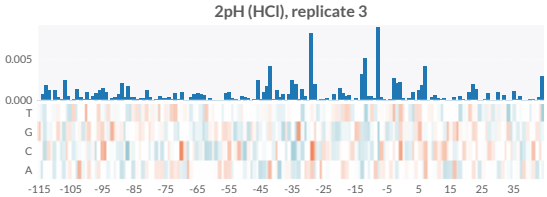

Ampicillin (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

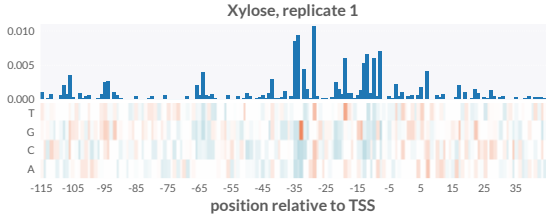

Leucine (10mM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

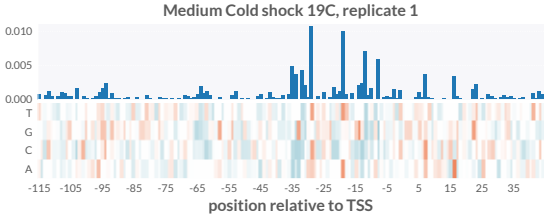

Ethanol (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Ethanol (induction), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Xylose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Medium Cold shock 19C, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

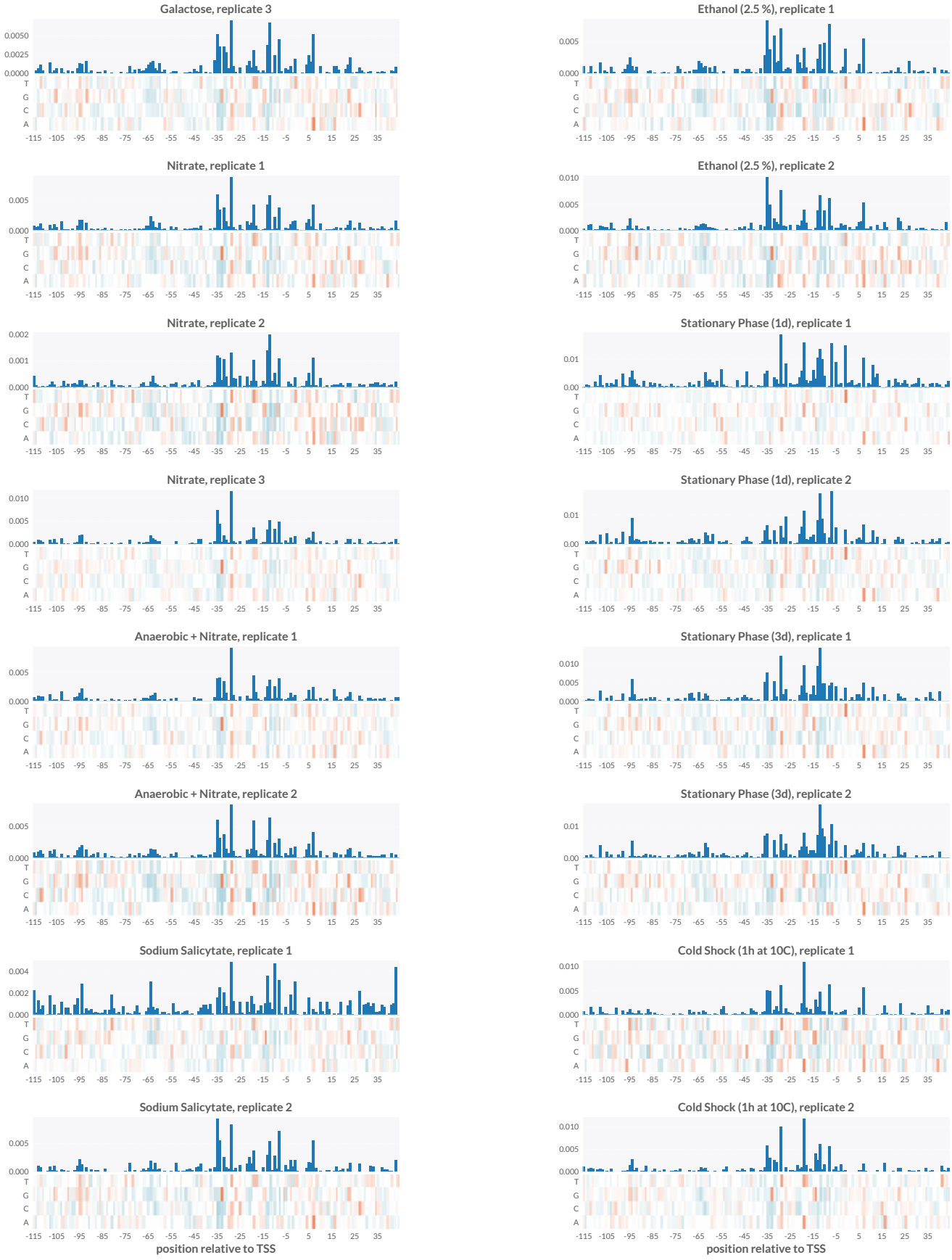
recNp


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

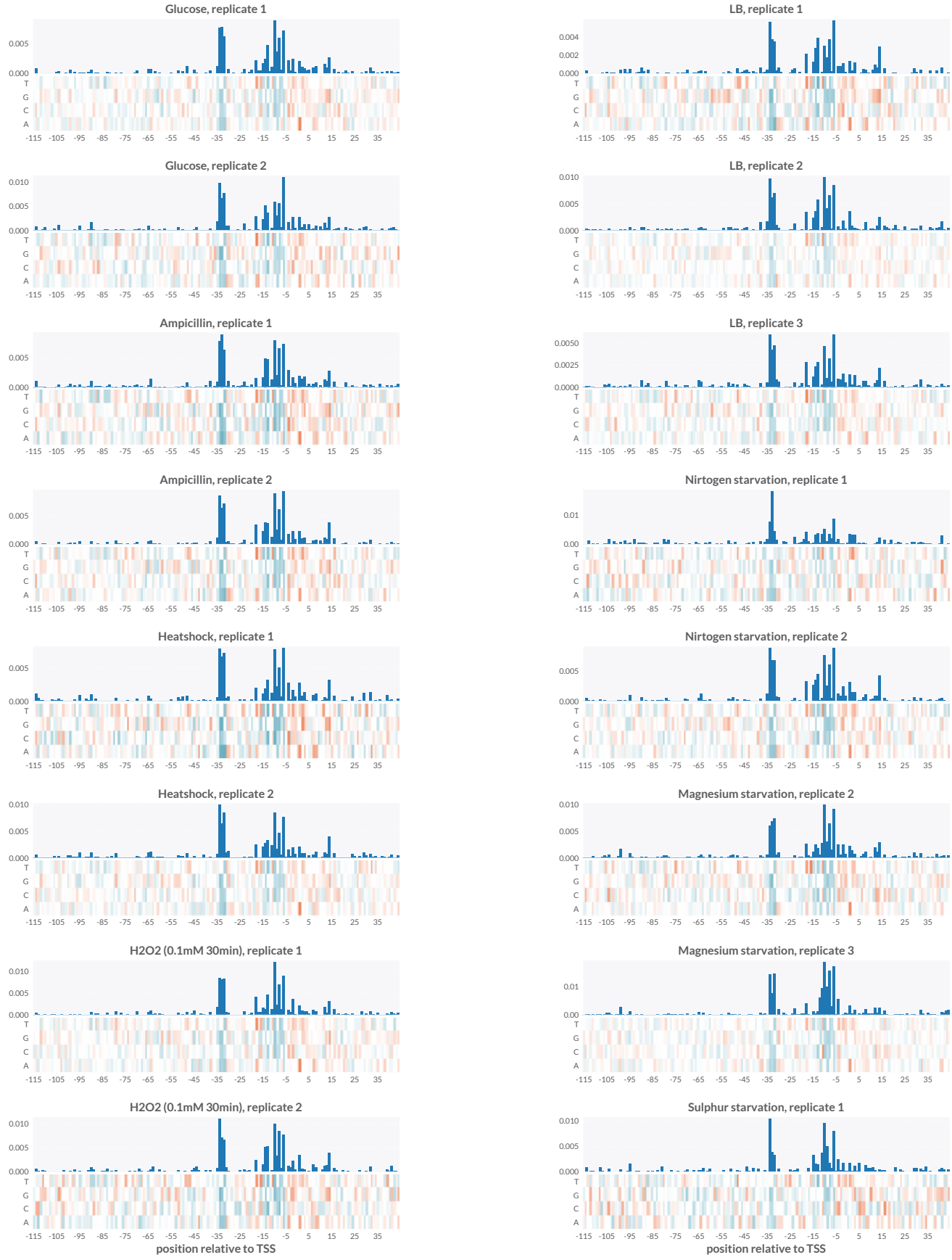
recNp


Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

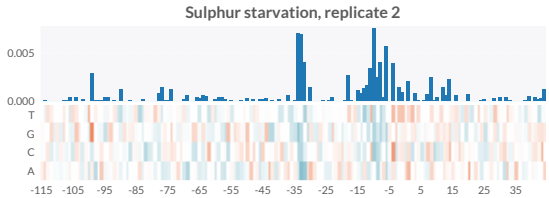
recNp

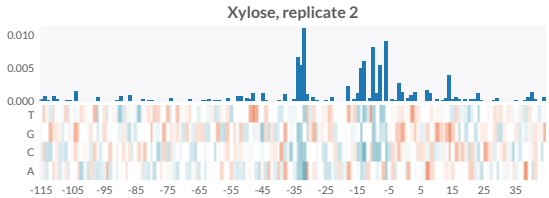

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

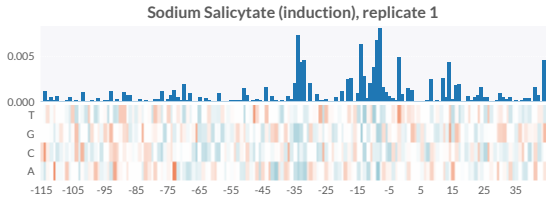
relBp

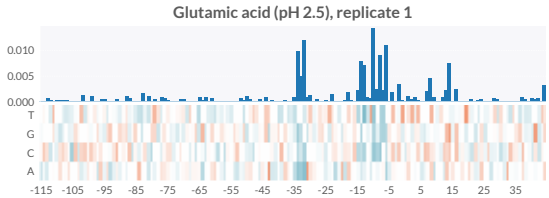

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

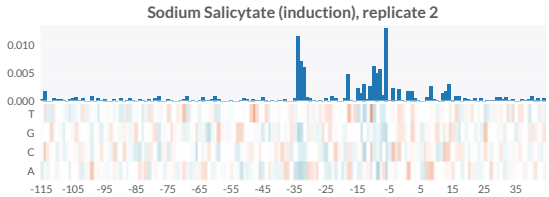
relBp

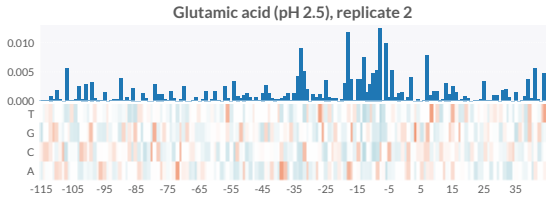

Sulphur starvation, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

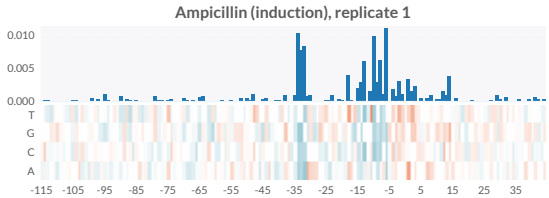

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

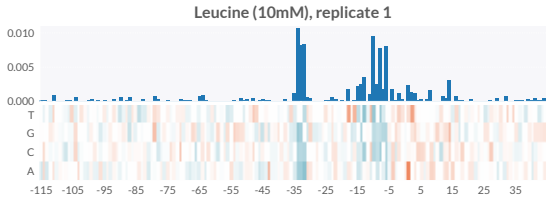

Sodium Salicytate (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

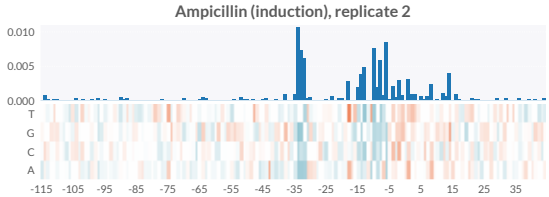

Glutamic acid (pH 2.5), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

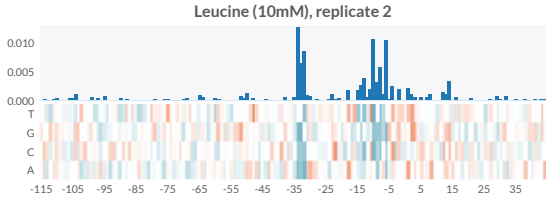

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

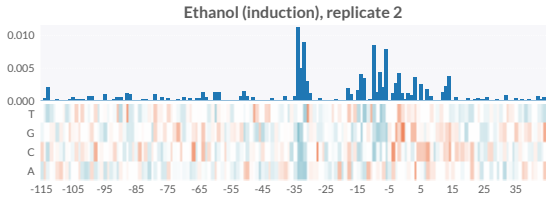

Glutamic acid (pH 2.5), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

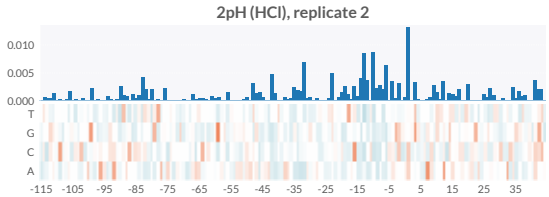

Ampicillin (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

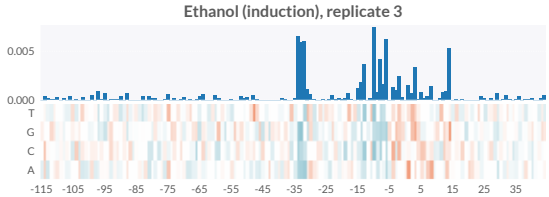

Leucine (10mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

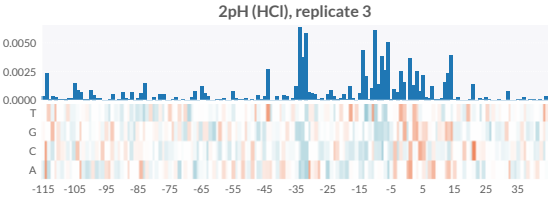

Ampicillin (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

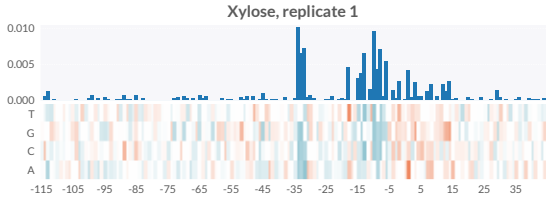

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

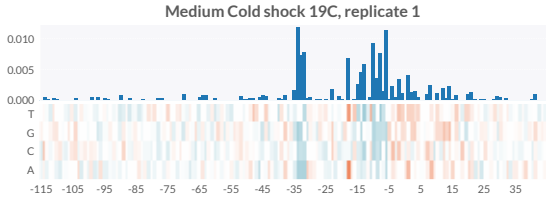

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

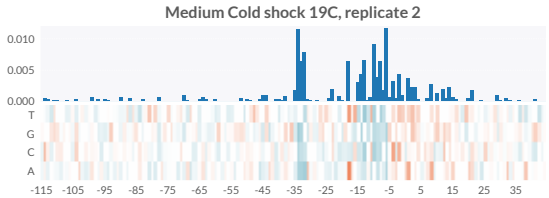

Ethanol (induction), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

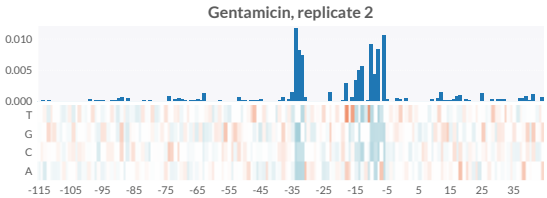

2pH (HCl), replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

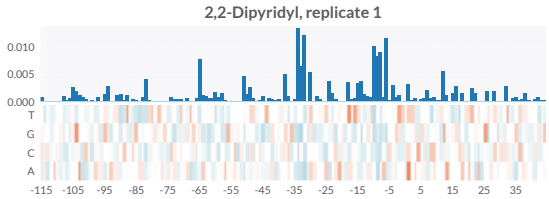

Xylose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

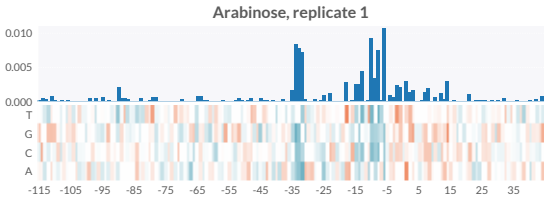

Medium Cold shock 19C, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

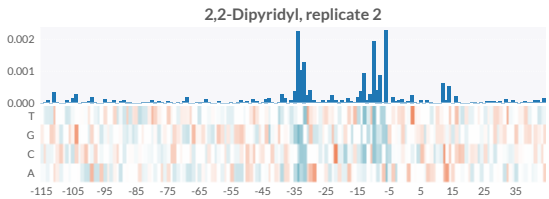
relBp

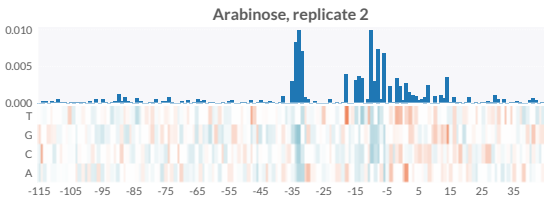

Medium Cold shock 19C, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

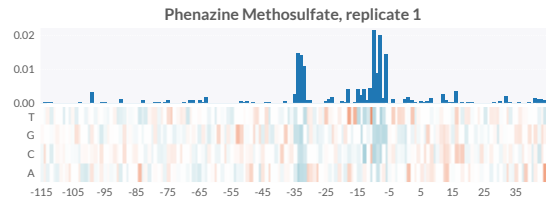

Gentamicin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

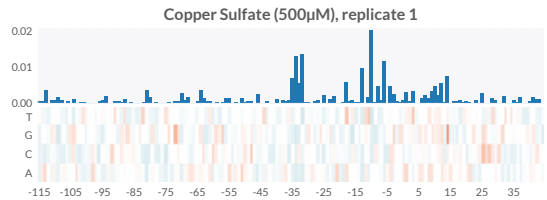

2,2-Dipyridyl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

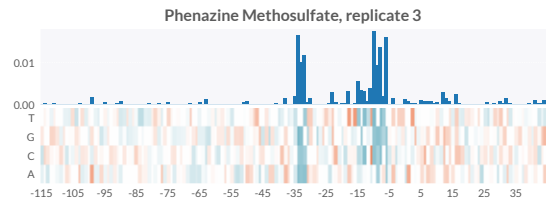

Arabinose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

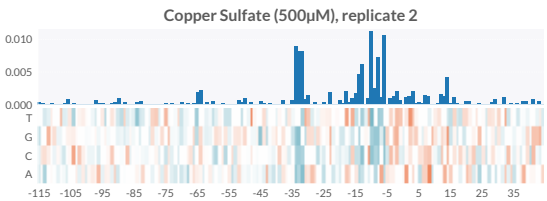

2,2-Dipyridyl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

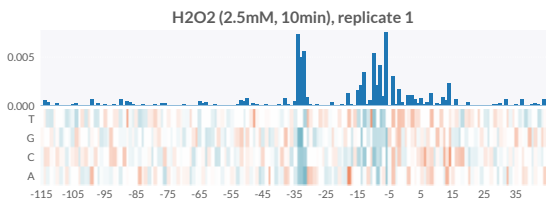

Arabinose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

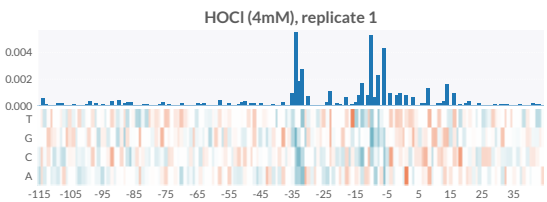

Phenazine Methosulfate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

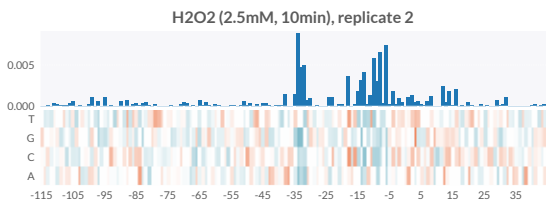

Copper Sulfate (500µM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

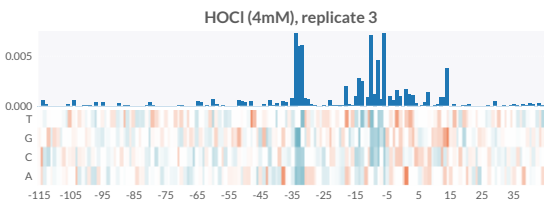

Phenazine Methosulfate, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

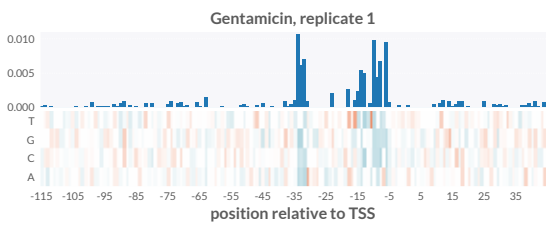

Copper Sulfate (500µM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

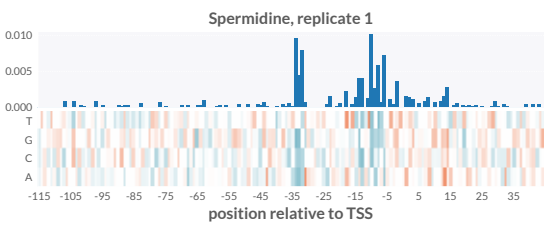

H2O2 (2.5mM, 10min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


H2O2 (2.5mM, 10min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

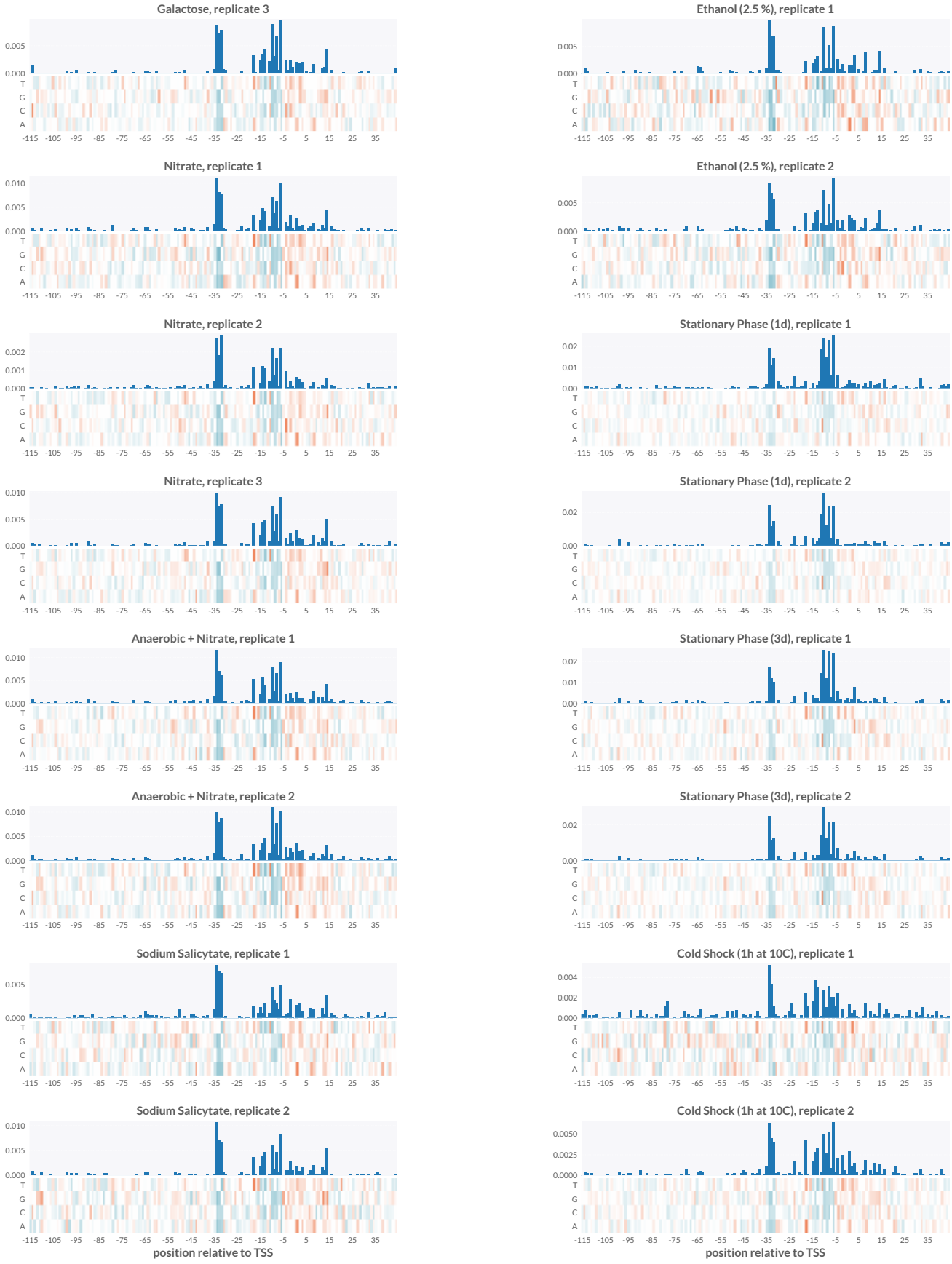

Gentamicin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Spermidine, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

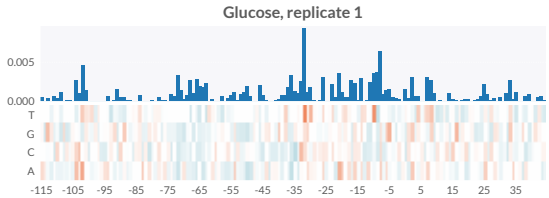
relBp

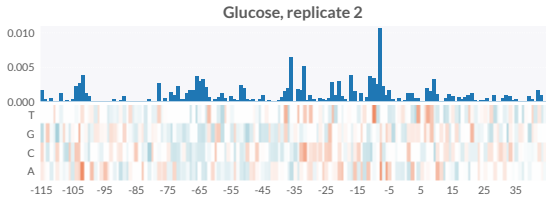

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

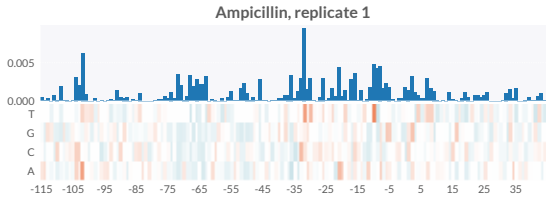
relBp

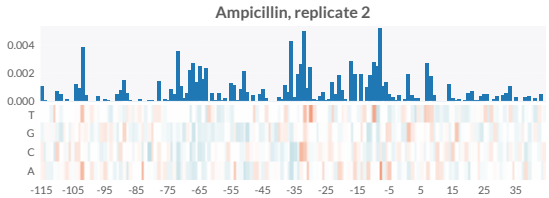

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

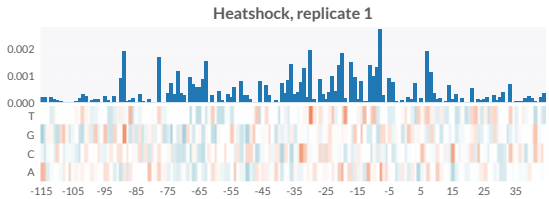
rspAp

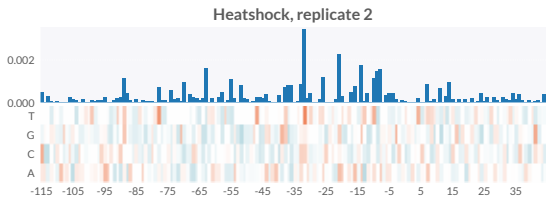

Glucose, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

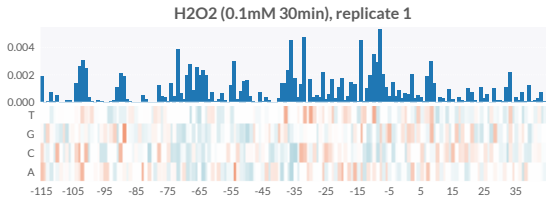

Glucose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

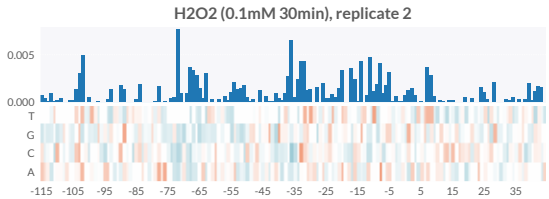

Ampicillin, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

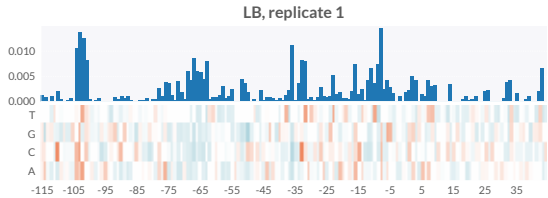

Ampicillin, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

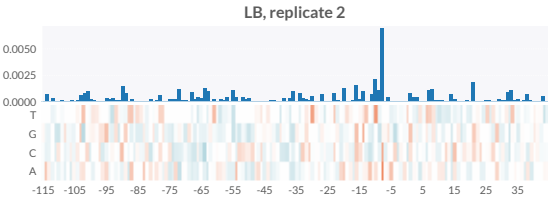

Heatshock, replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

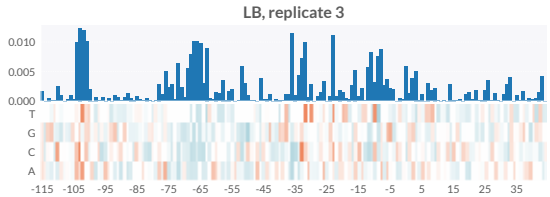

Heatshock, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

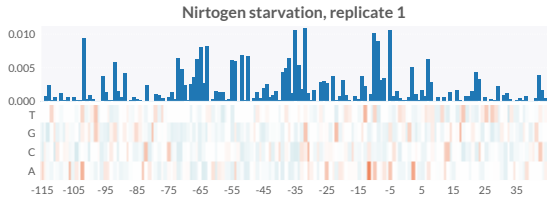

H2O2 (0.1mM 30min), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

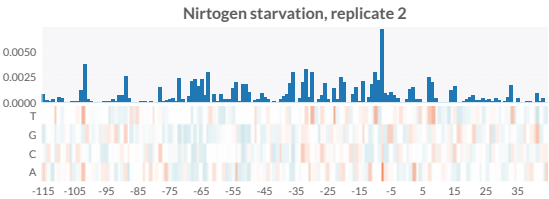

H2O2 (0.1mM 30min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

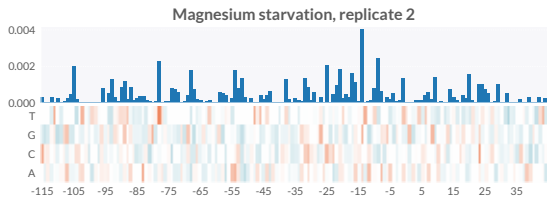

LB, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

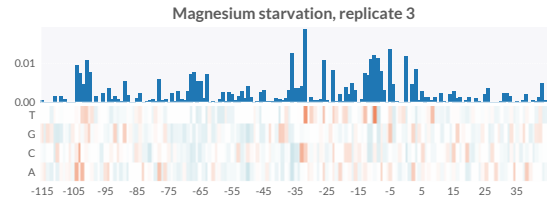

LB, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

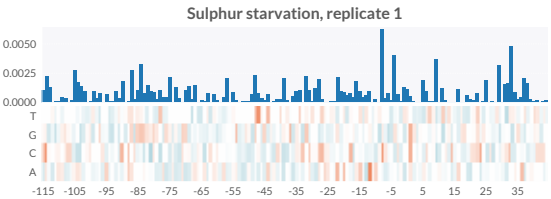

LB, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Nirtogen starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

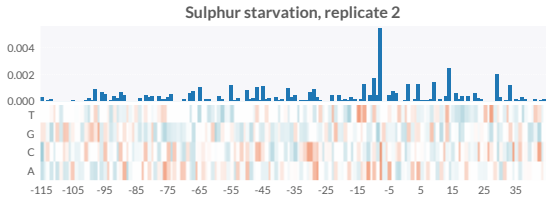

Nirtogen starvation, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

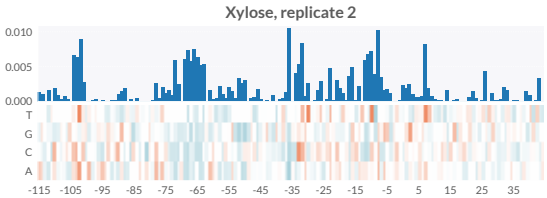

Magnesium starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

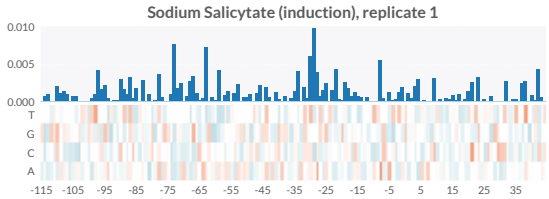

Magnesium starvation, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

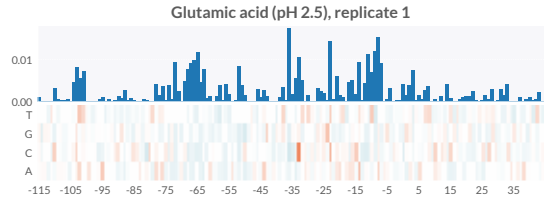

Sulphur starvation, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

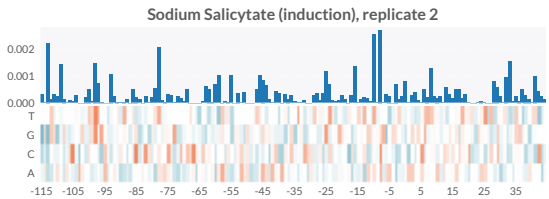
rspAp

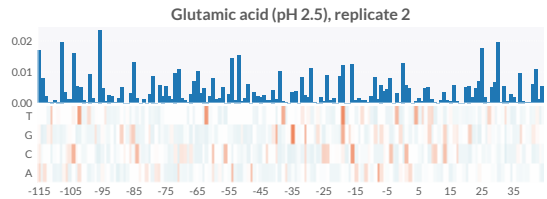

Sulphur starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

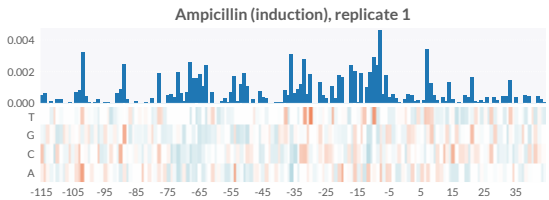

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

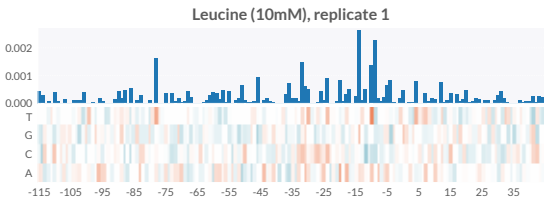

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

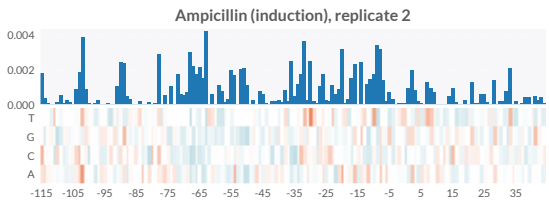

Glutamic acid (pH 2.5), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

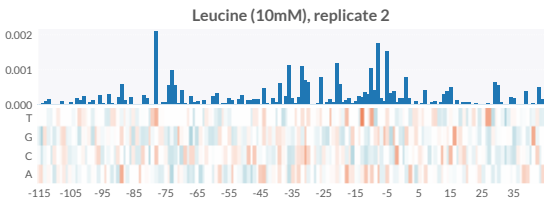

Sodium Salicytate (induction), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

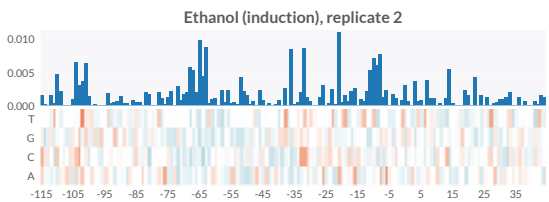

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

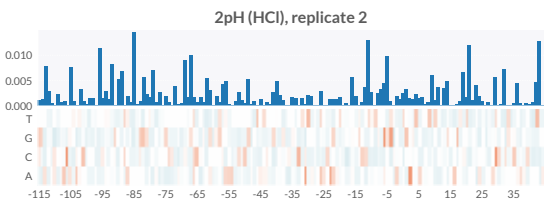

Ampicillin (induction), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

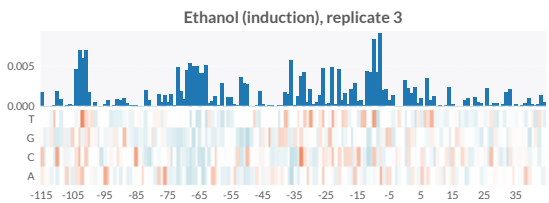

Leucine (10mM), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

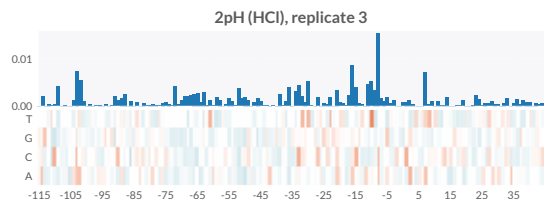

Ampicillin (induction), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

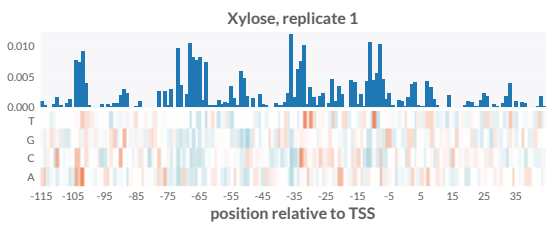

Leucine (10mM), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

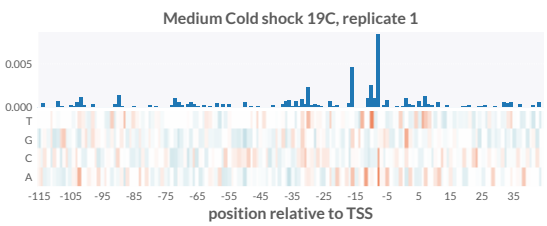

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

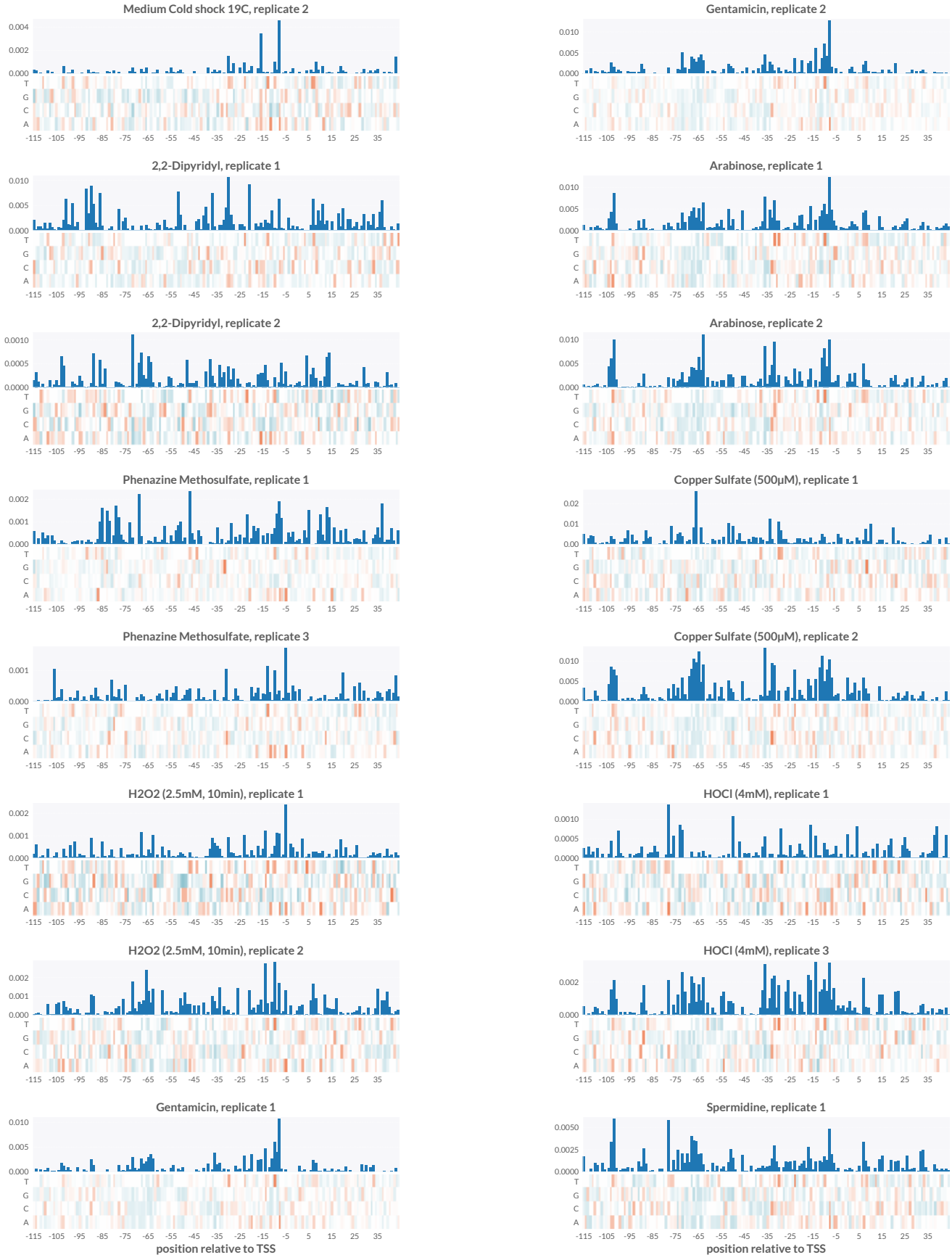

Ethanol (induction), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

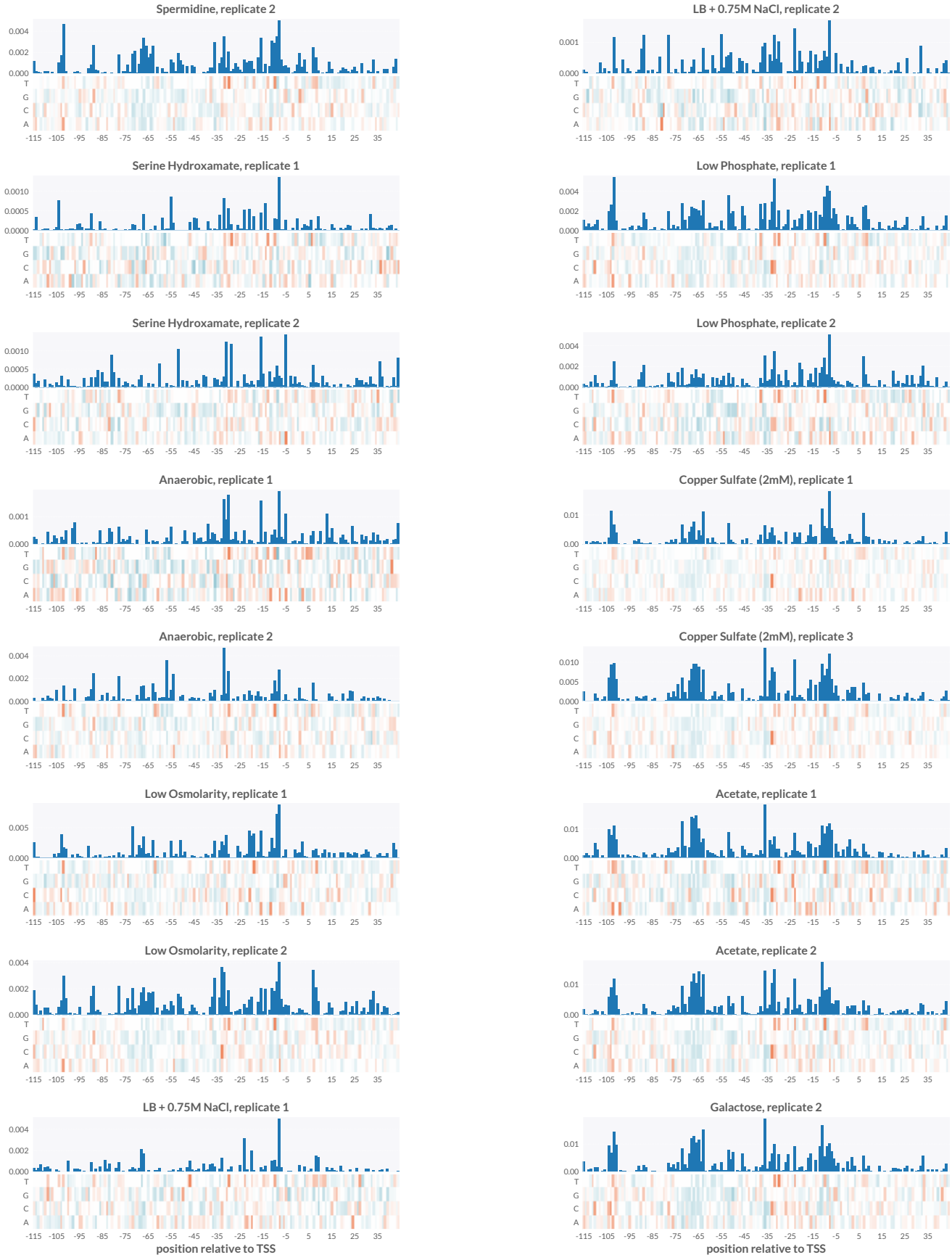

Xylose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Medium Cold shock 19C, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

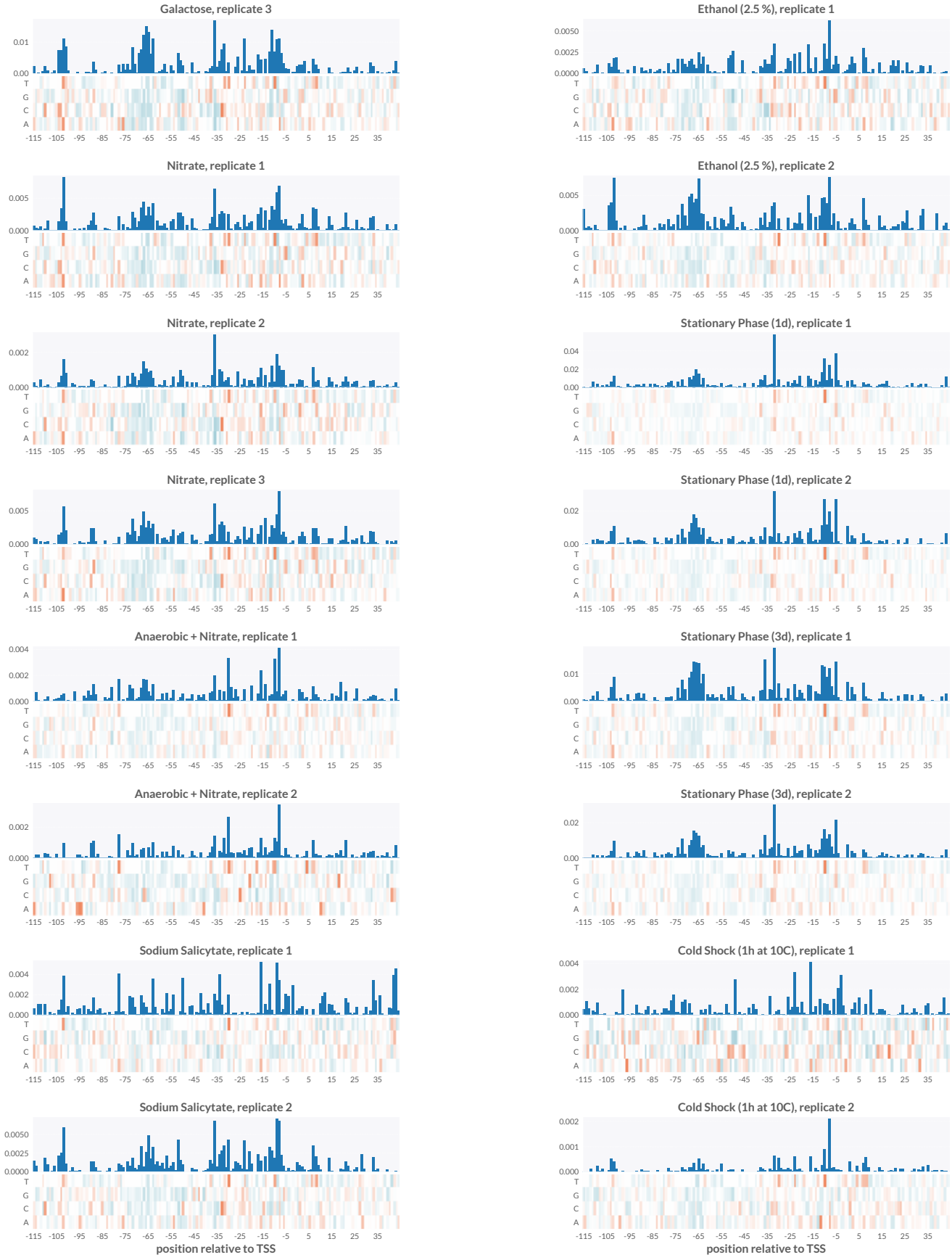
rspAp


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

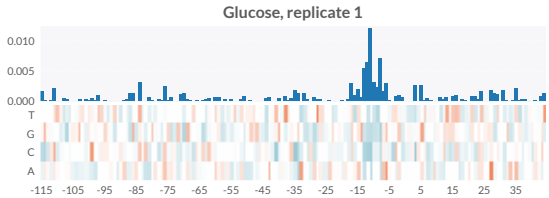
rspAp

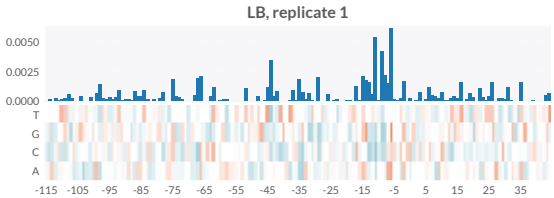

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

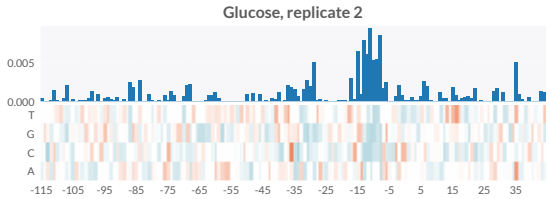
rspAp

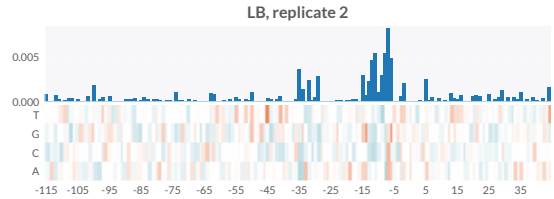

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

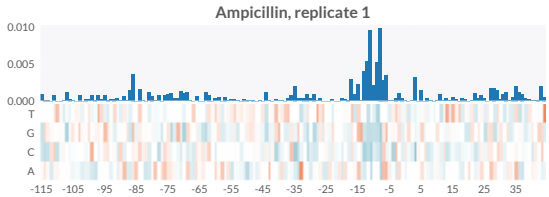
sohAp

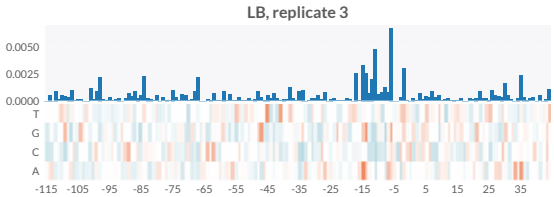

Glucose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

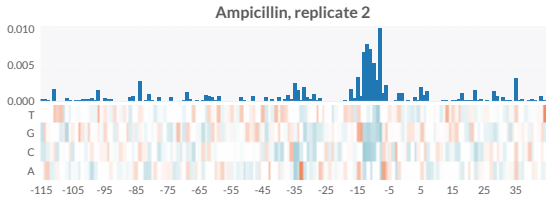

LB, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

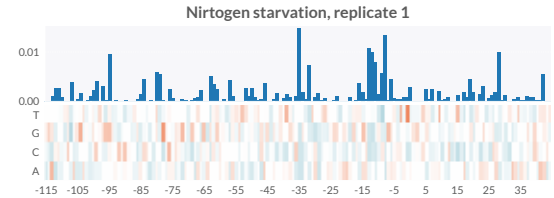

Glucose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

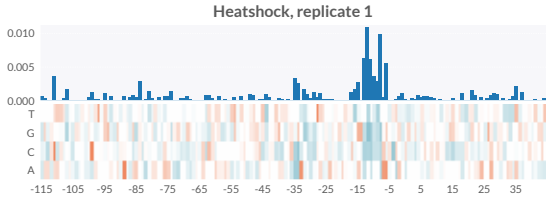

LB, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

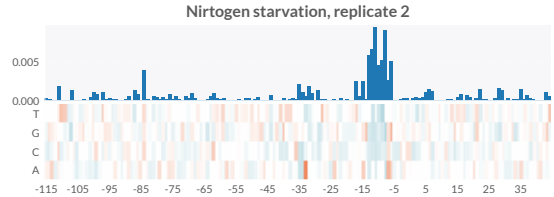

Ampicillin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

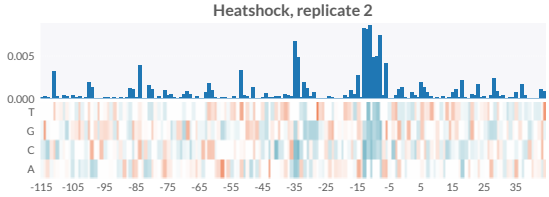

LB, replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

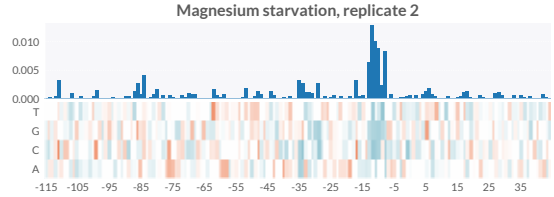

Ampicillin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

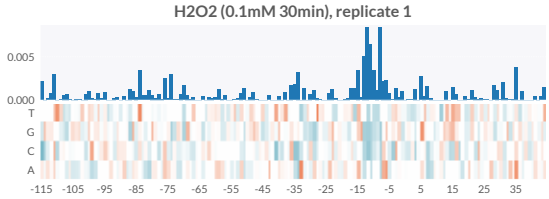

Nirtogen starvation, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

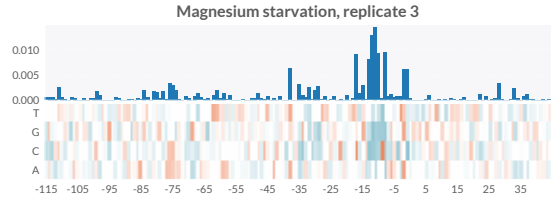

Heatshock, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

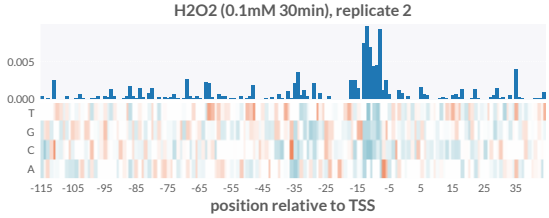

Nirtogen starvation, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

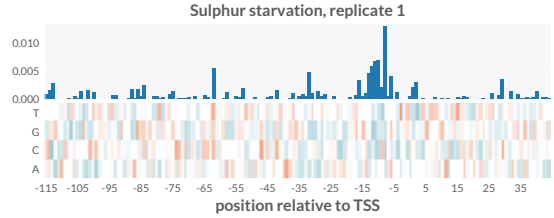

Heatshock, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

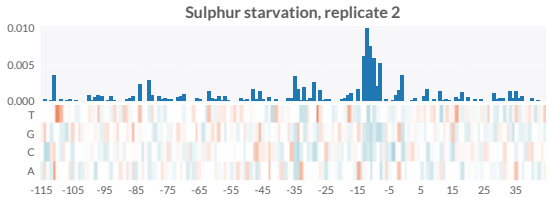

H2O2 (0.1mM 30min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

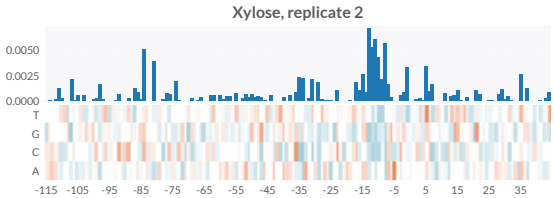

Magnesium starvation, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

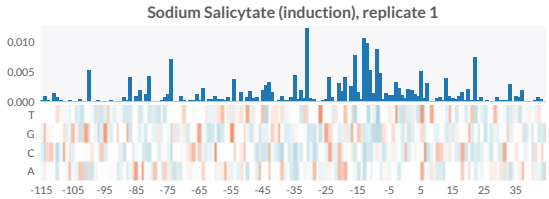

H2O2 (0.1mM 30min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

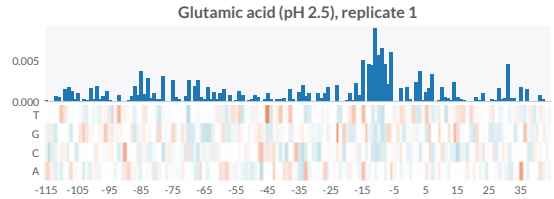

Sulphur starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

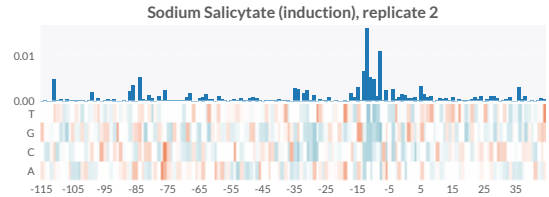
sohAp

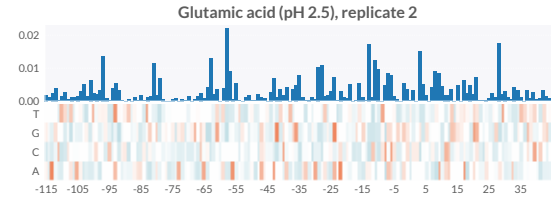

Sulphur starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

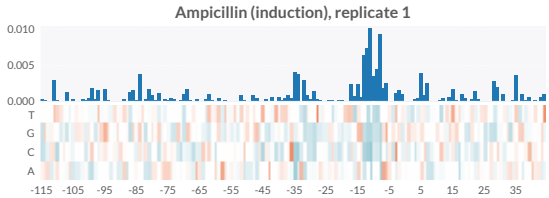

Xylose, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

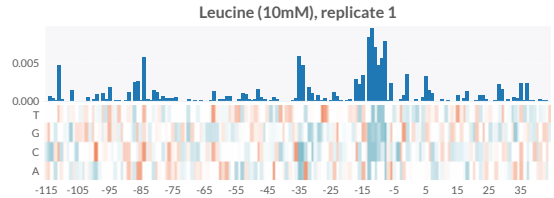

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

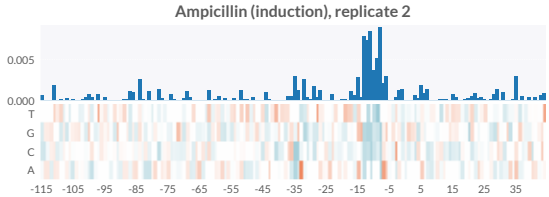

Glutamic acid (pH 2.5), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

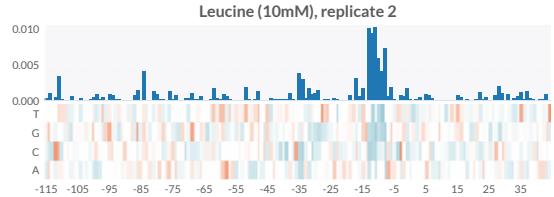

Sodium Salicytate (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

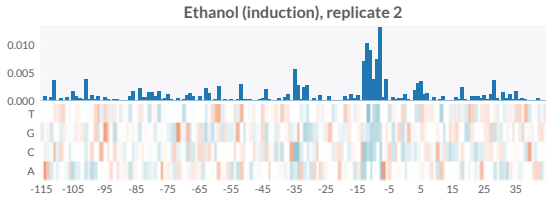

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

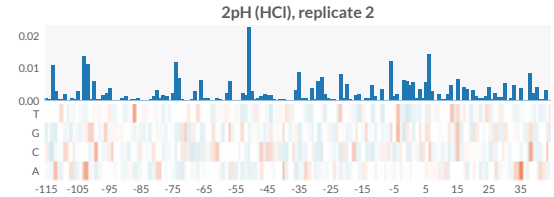

Ampicillin (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

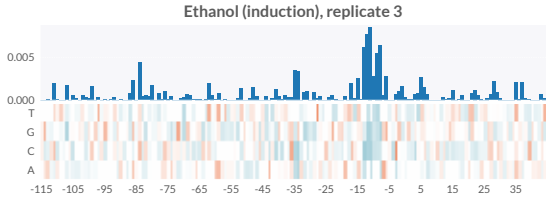

Leucine (10mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

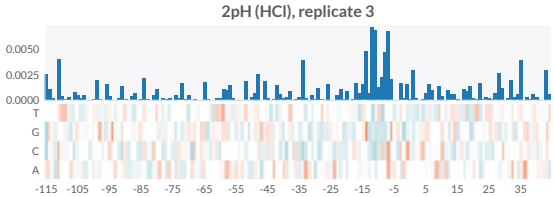

Ampicillin (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

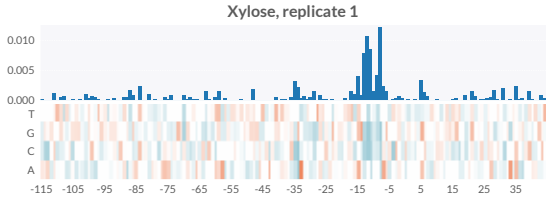

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

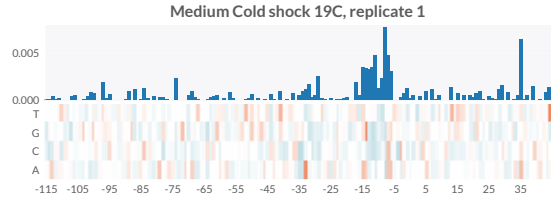

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

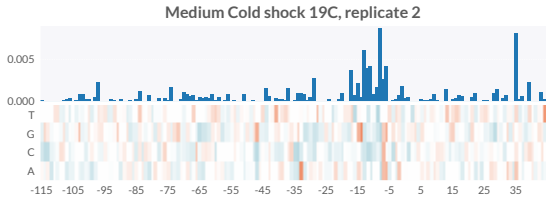

Ethanol (induction), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

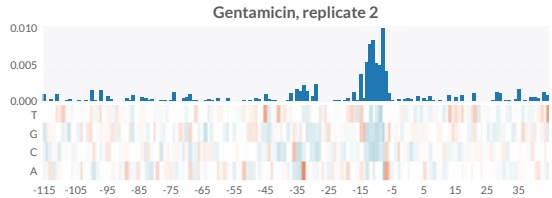

2pH (HCl), replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

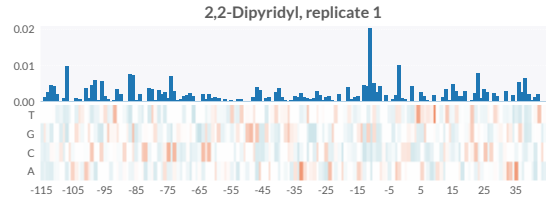

Xylose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

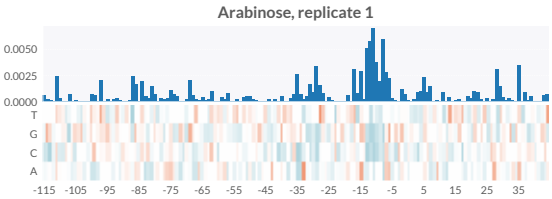

Medium Cold shock 19C, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

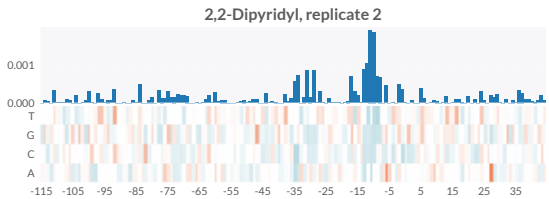
sohAp

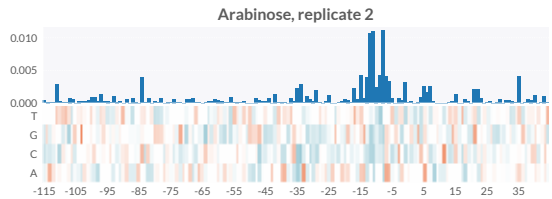

Medium Cold shock 19C, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

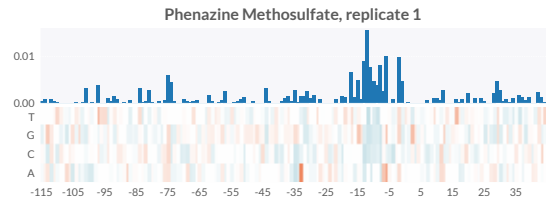

Gentamicin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

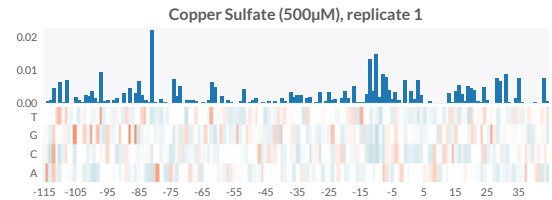

2,2-Dipyridyl, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

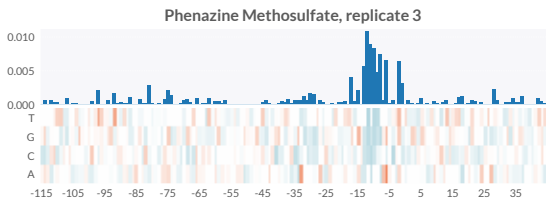

Arabinose, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

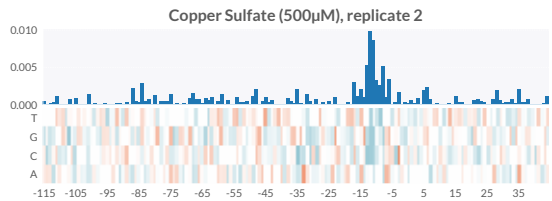

2,2-Dipyridyl, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

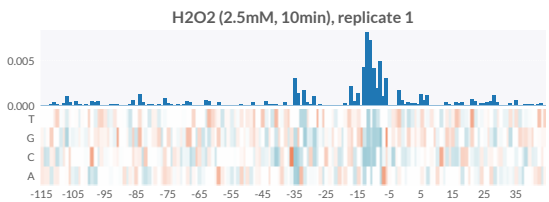

Arabinose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

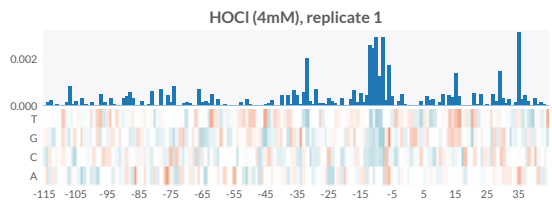

Phenazine Methosulfate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

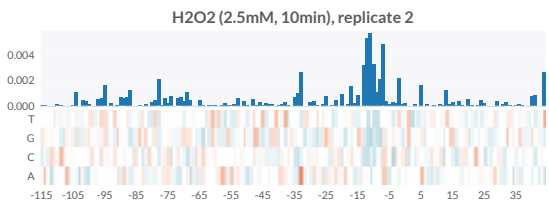

Copper Sulfate (500µM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

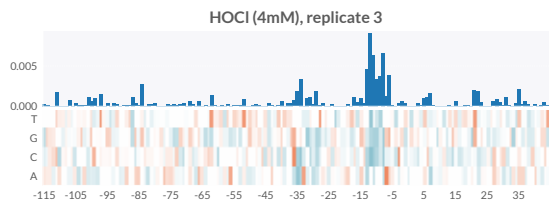

Phenazine Methosulfate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

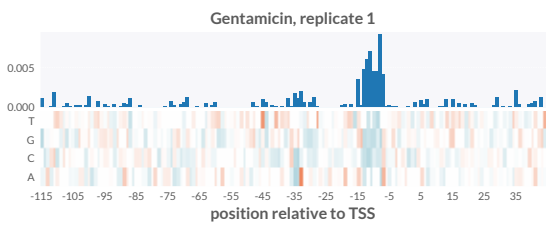

Copper Sulfate (500µM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

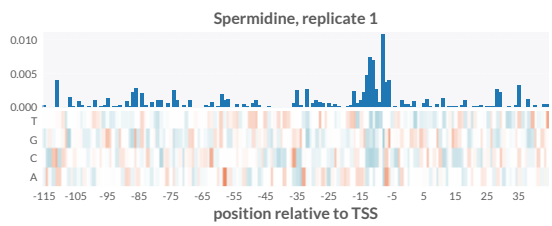

H2O2 (2.5mM, 10min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

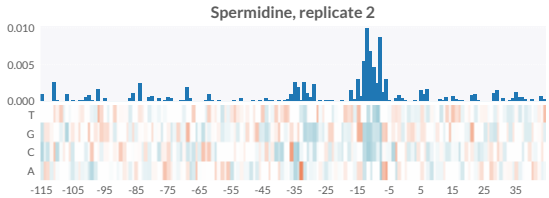

H2O2 (2.5mM, 10min), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

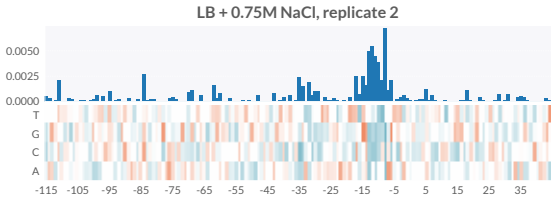

HOCl (4mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

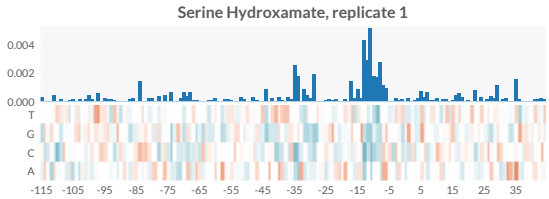

Gentamicin, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

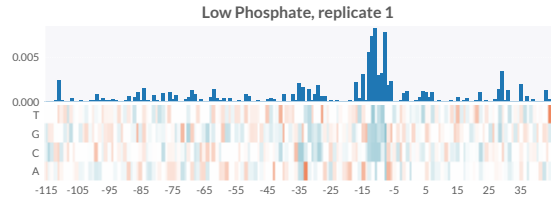

Spermidine, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

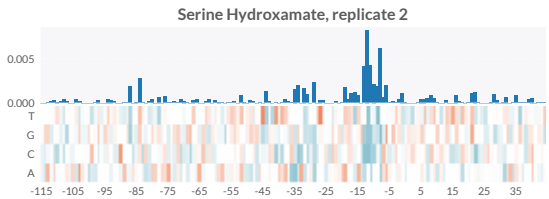
sohAp

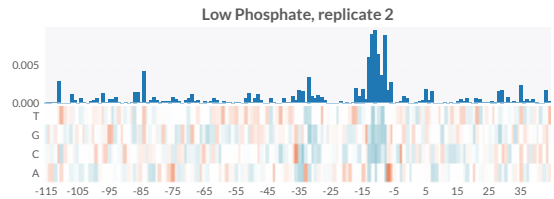

Spermidine, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

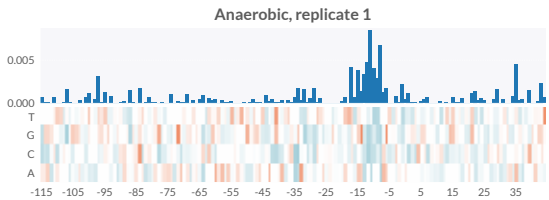

LB + 0.75M NaCl, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

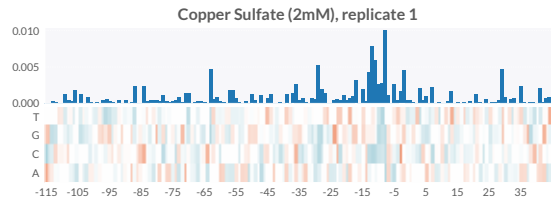

Serine Hydroxamate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

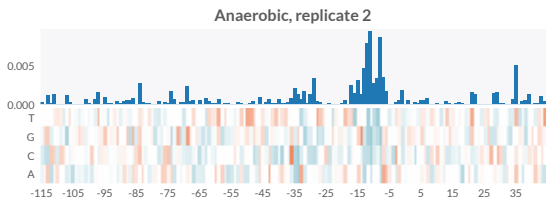

Low Phosphate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

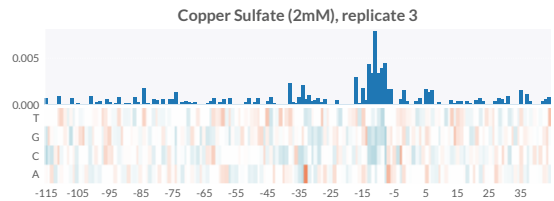

Serine Hydroxamate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

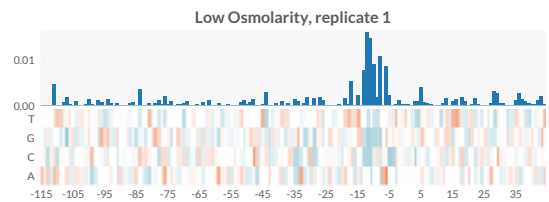

Low Phosphate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

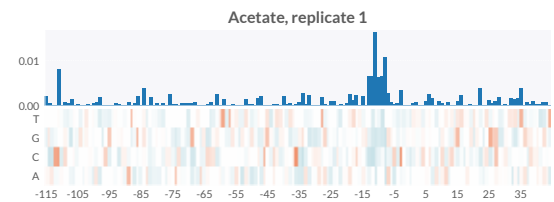

Anaerobic, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

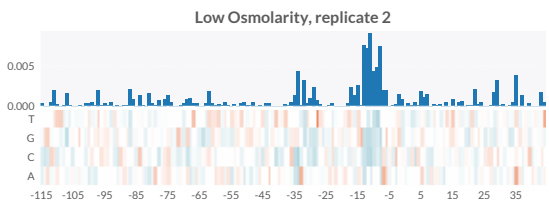

Copper Sulfate (2mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

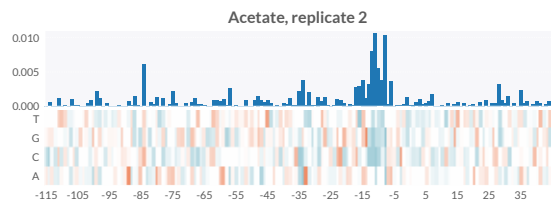

Anaerobic, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

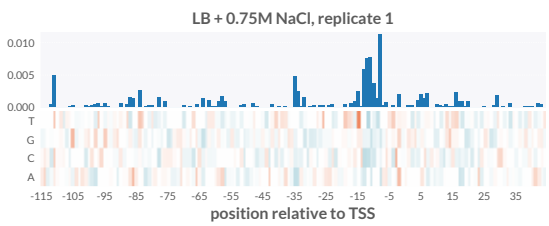

Copper Sulfate (2mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

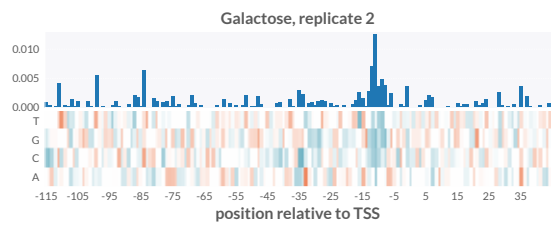

Low Osmolarity, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

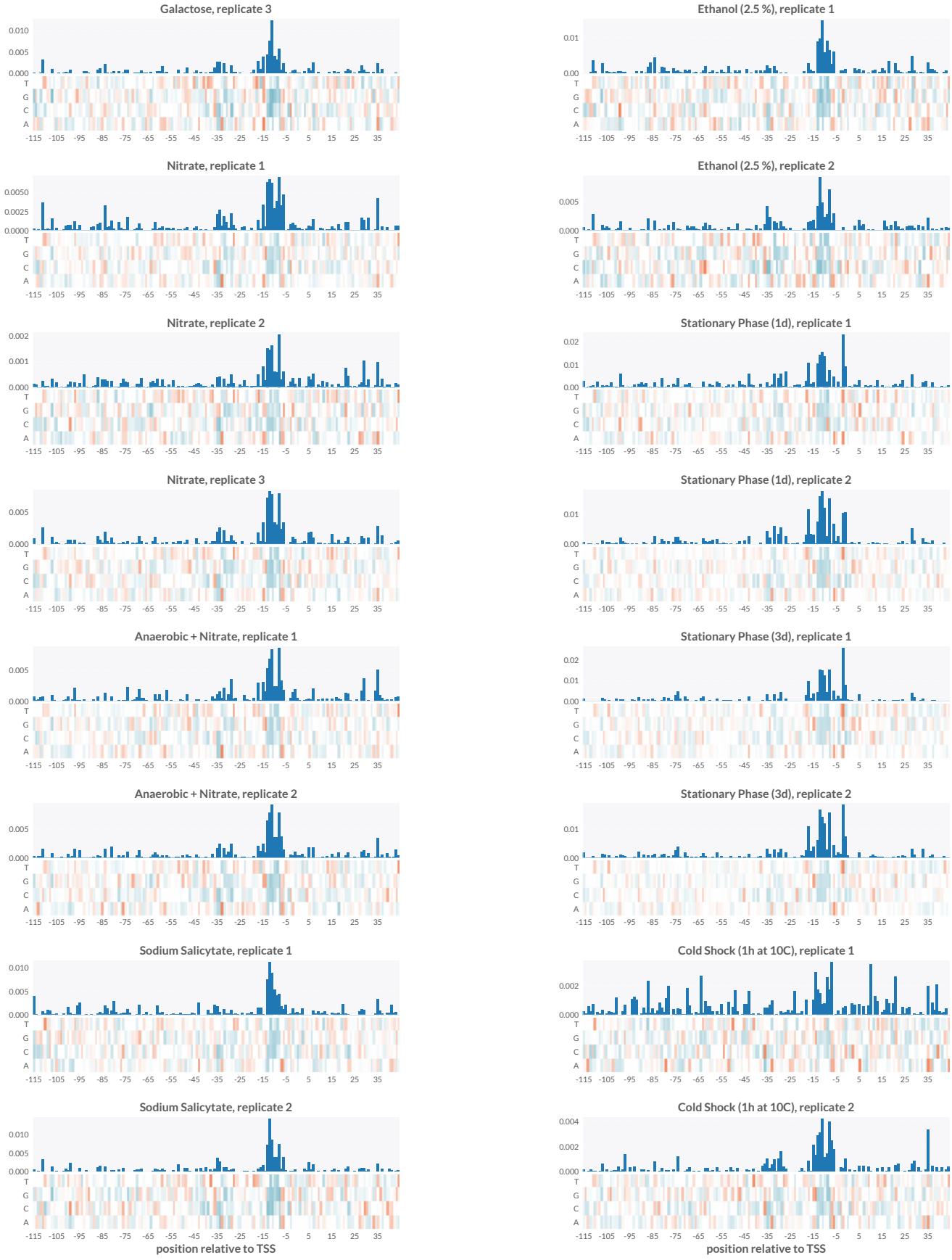

Low Osmolarity, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

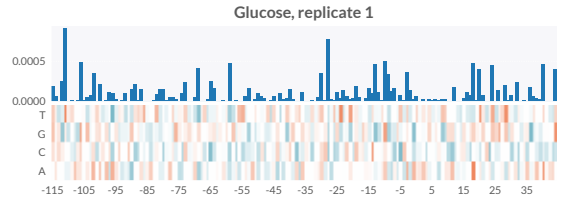

LB + 0.75M NaCl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

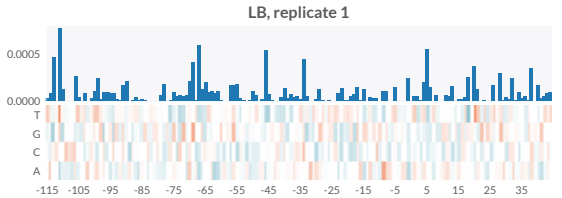

Galactose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

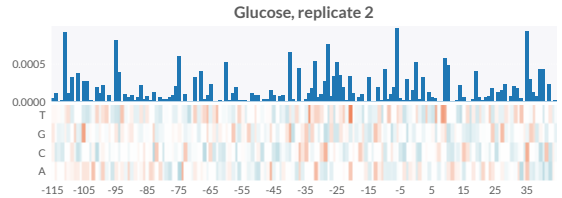
sohAp

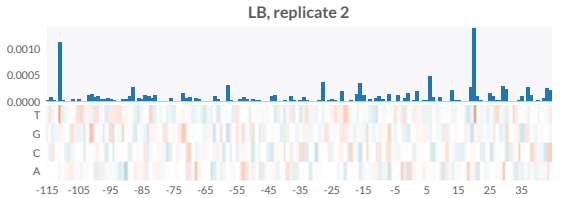

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

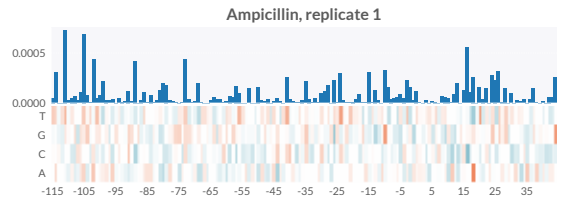
ssnAp

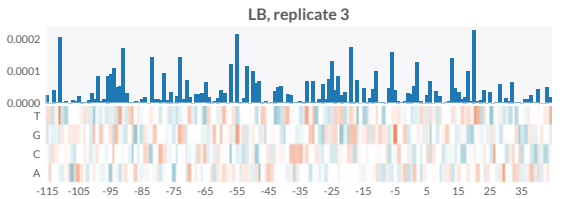

Glucose, replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

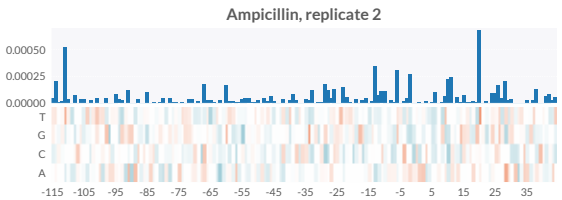

LB, replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

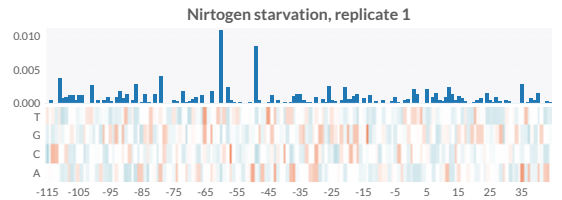

Glucose, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

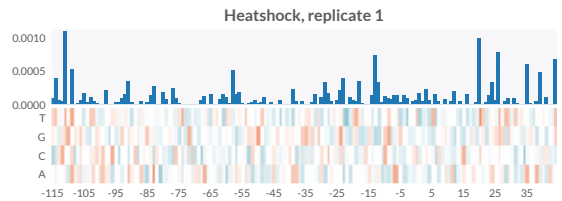

LB, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

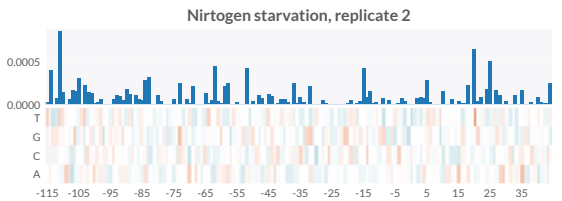

Ampicillin, replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

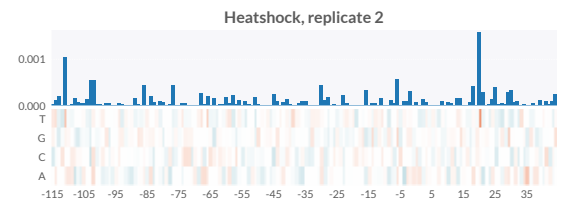

LB, replicate 3
0.0002
0.0001
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

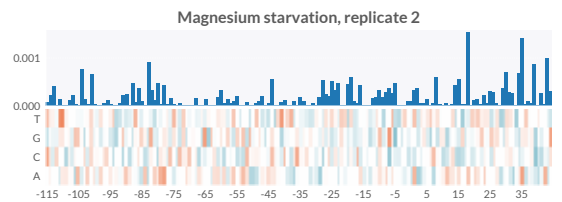

Ampicillin, replicate 2
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

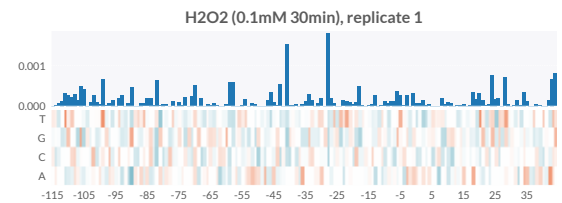

Nirtogen starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

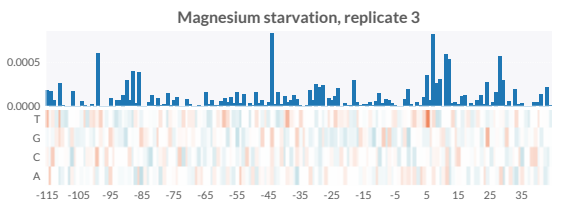

Heatshock, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

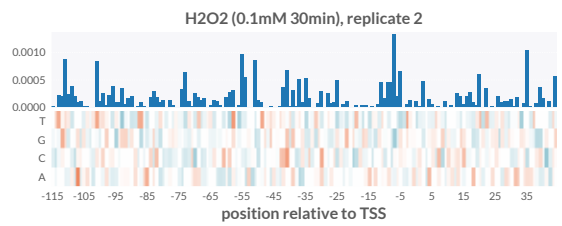

Nirtogen starvation, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

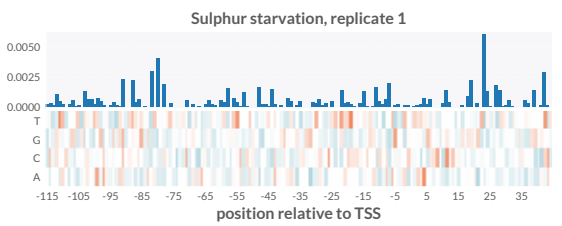

Heatshock, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

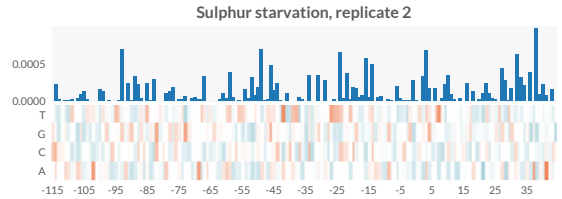

H2O2 (0.1mM 30min), replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

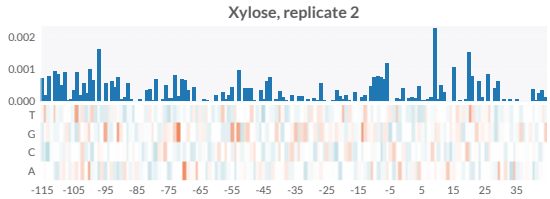

Magnesium starvation, replicate 3
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

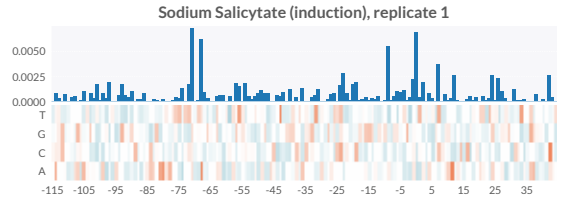

H2O2 (0.1mM 30min), replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

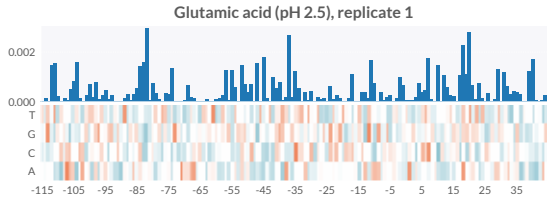

Sulphur starvation, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

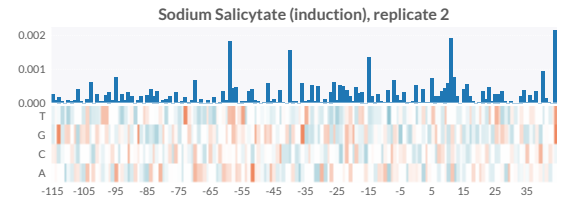
ssnAp

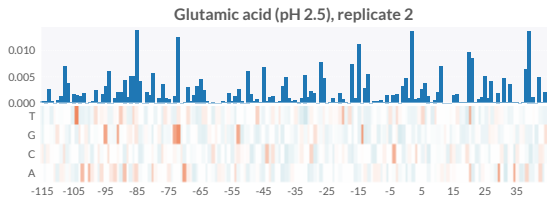

Sulphur starvation, replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

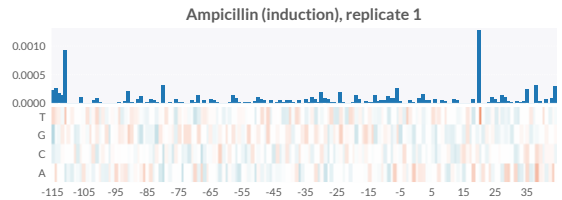

Xylose, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

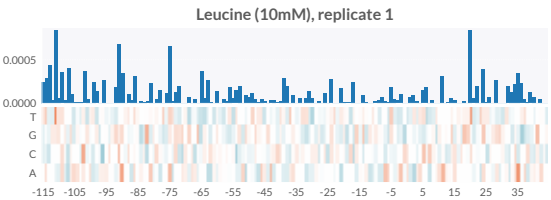

Sodium Salicytate (induction), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

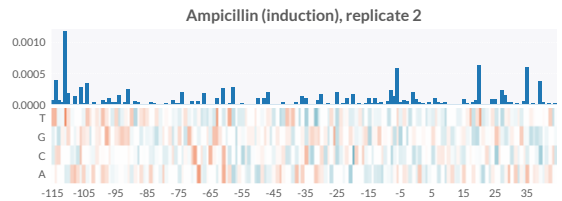

Glutamic acid (pH 2.5), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

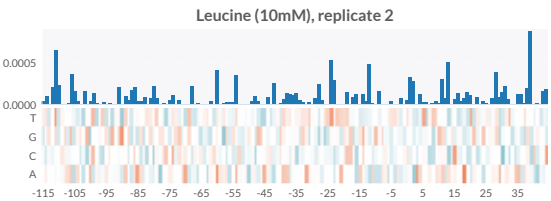

Sodium Salicytate (induction), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

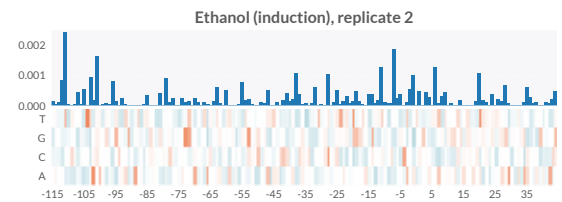

Glutamic acid (pH 2.5), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

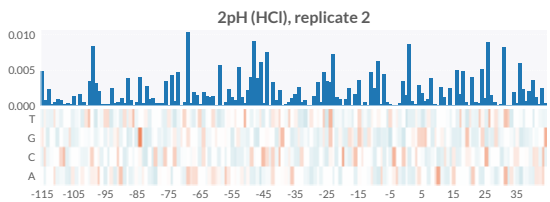

Ampicillin (induction), replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

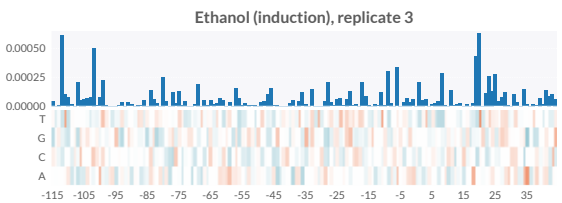

Leucine (10mM), replicate 1
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

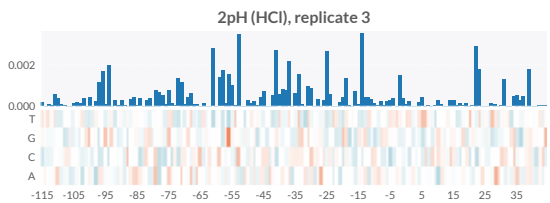

Ampicillin (induction), replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

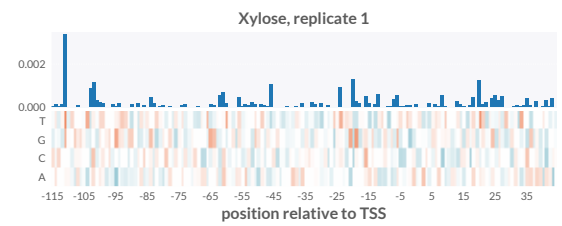

Leucine (10mM), replicate 2
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

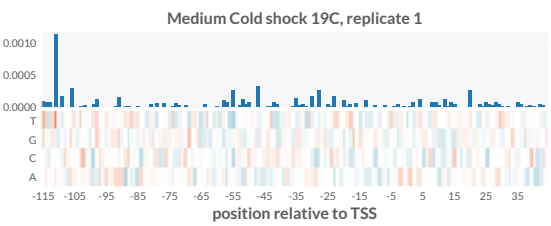

Ethanol (induction), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

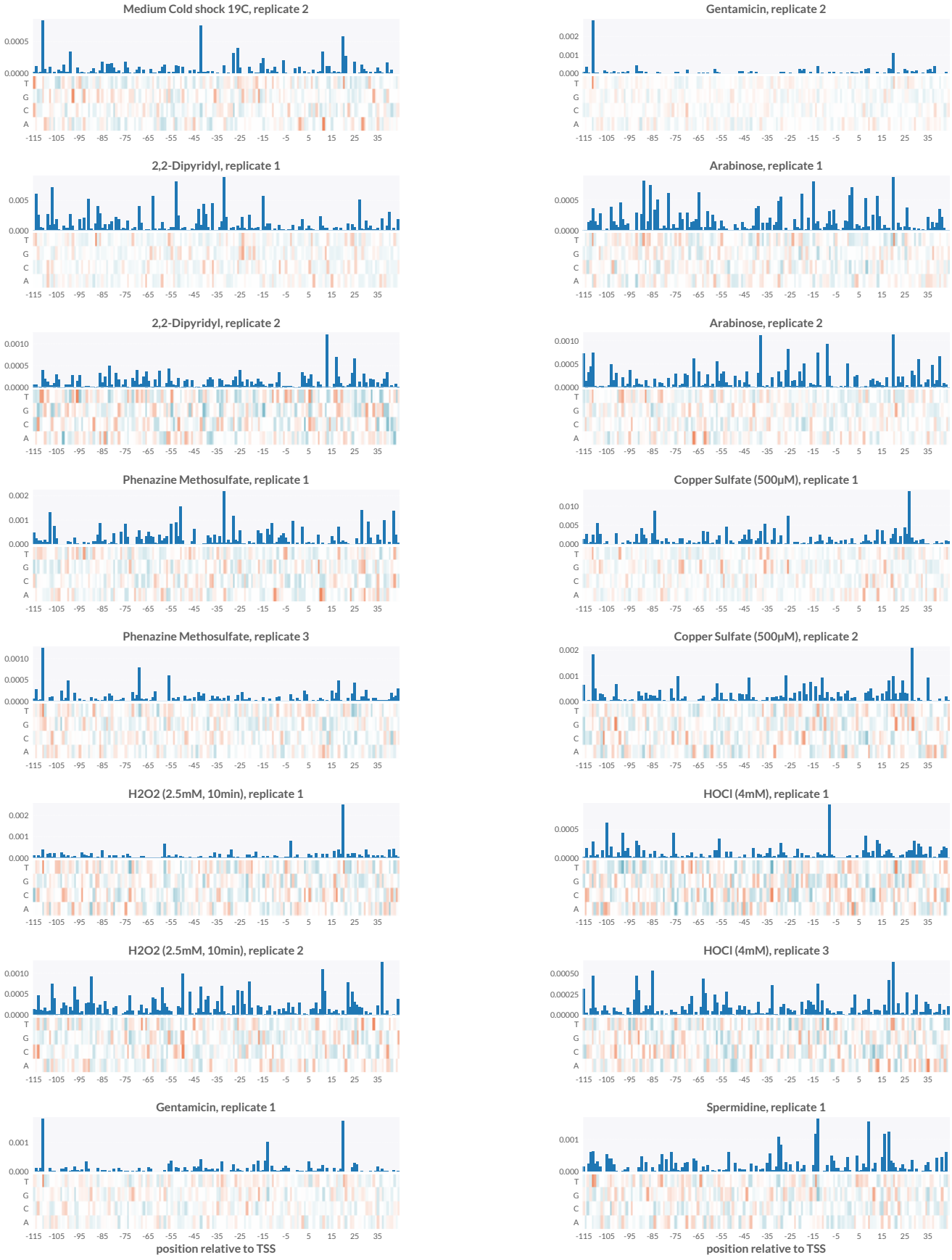

Ethanol (induction), replicate 3
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

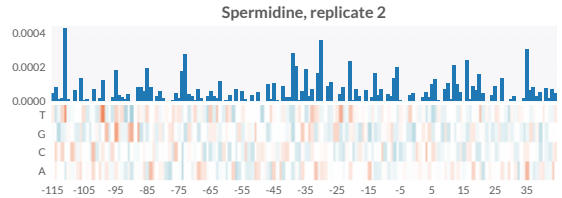

Xylose, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

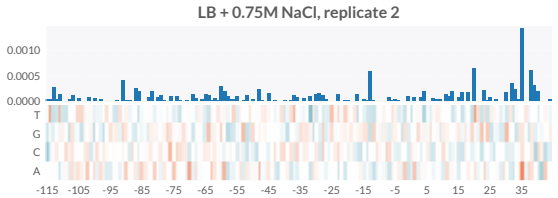

Medium Cold shock 19C, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

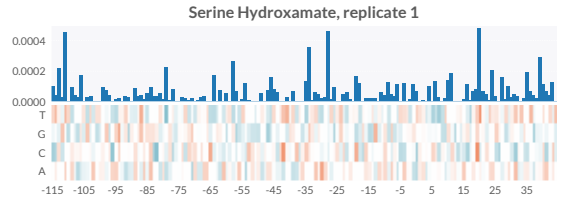
ssnAp

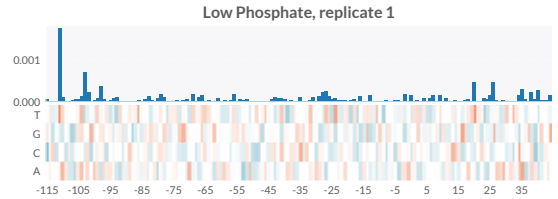

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

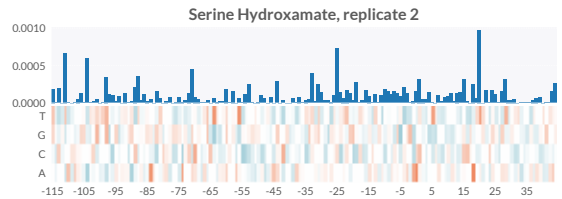
ssnAp

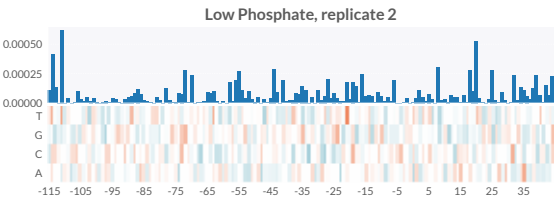

Spermidine, replicate 2
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

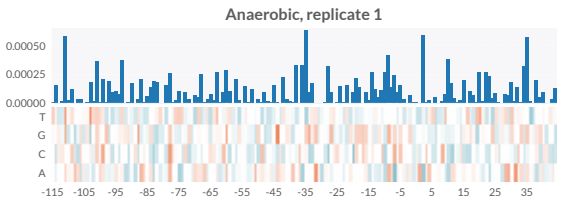

LB + 0.75M NaCl, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

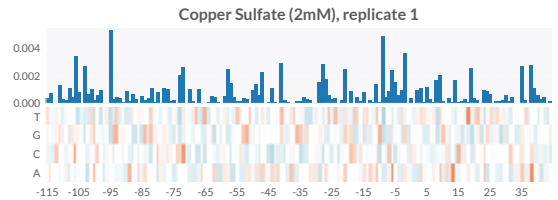

Serine Hydroxamate, replicate 1
0.0004
0.0002
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

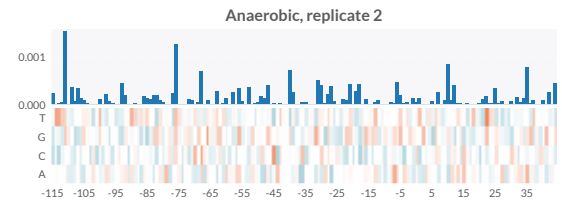

Low Phosphate, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

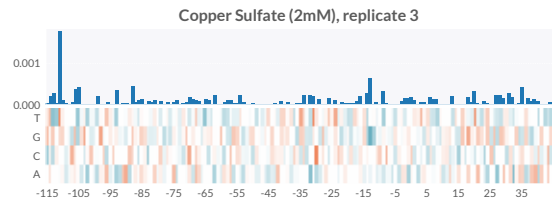

Serine Hydroxamate, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

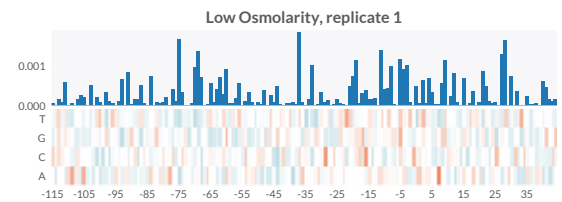

Low Phosphate, replicate 2
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

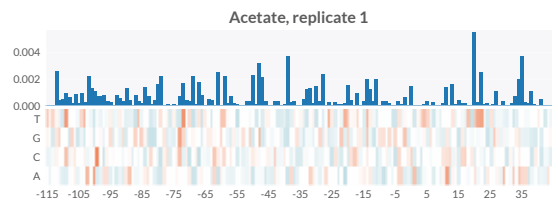

Anaerobic, replicate 1
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

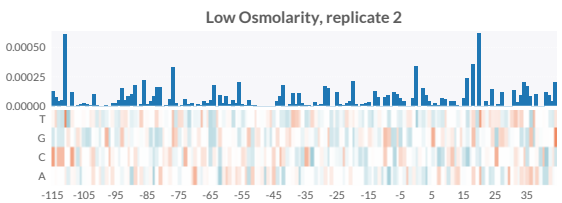

Copper Sulfate (2mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

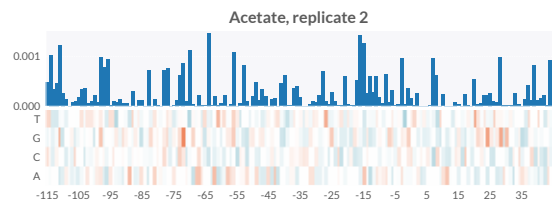

Anaerobic, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

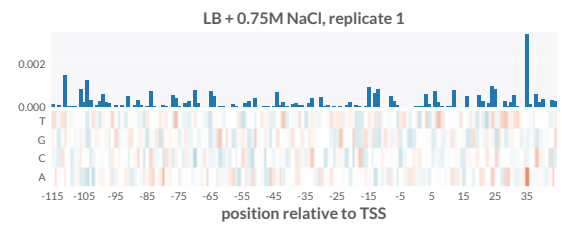

Copper Sulfate (2mM), replicate 3
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

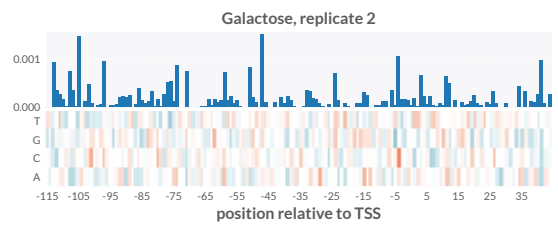

Low Osmolarity, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

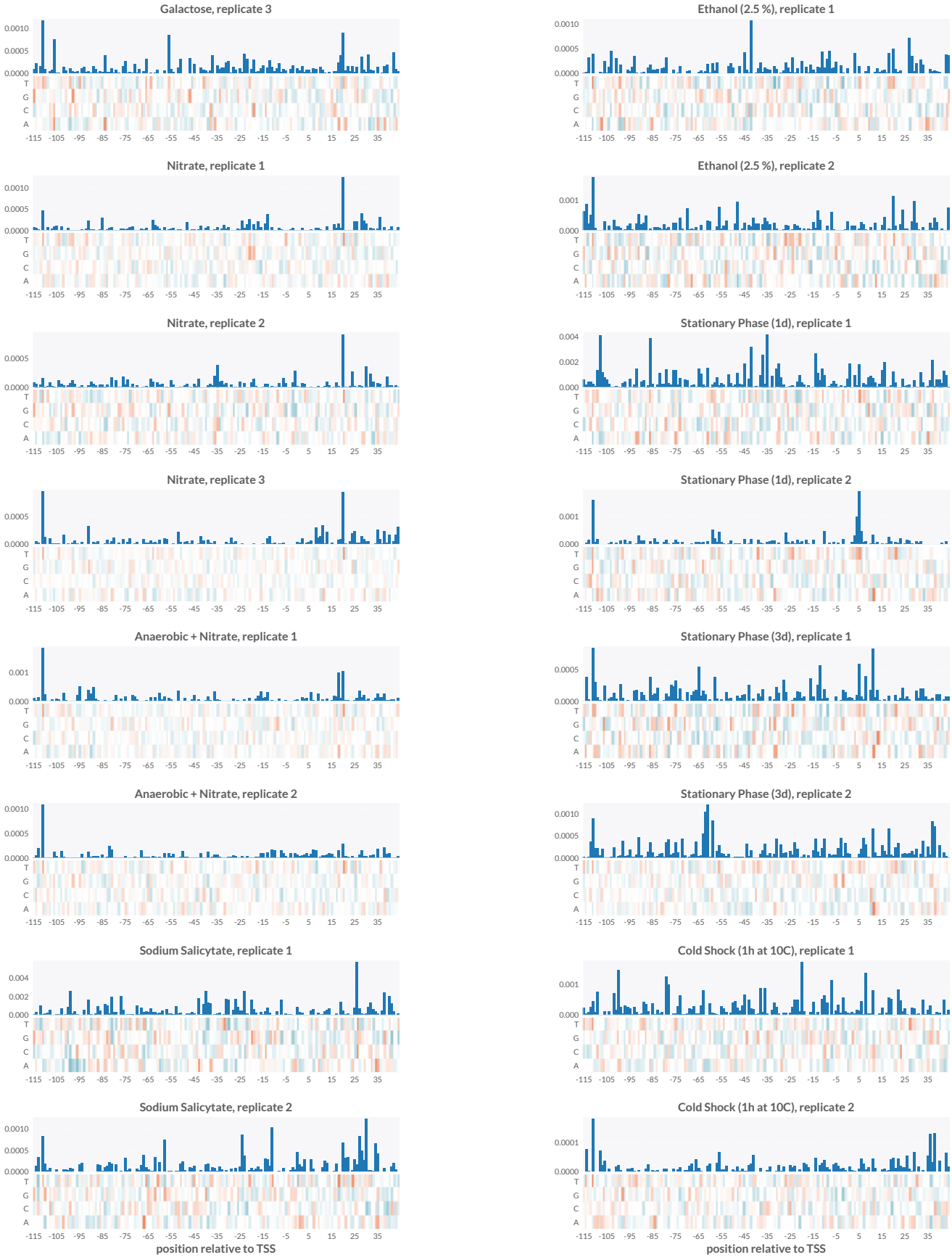

Low Osmolarity, replicate 2
0.00050
0.00025
0.00000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

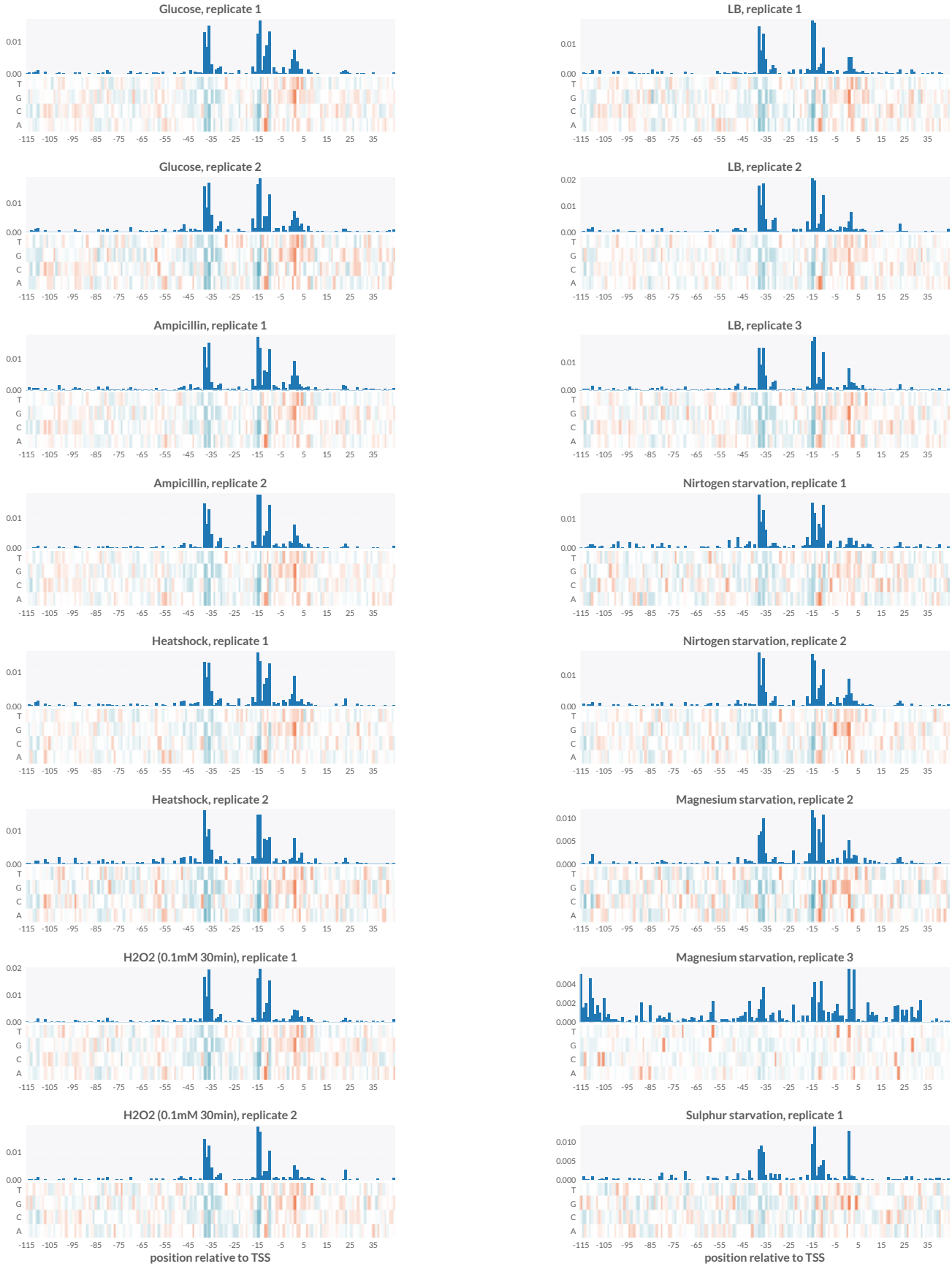

LB + 0.75M NaCl, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Galactose, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

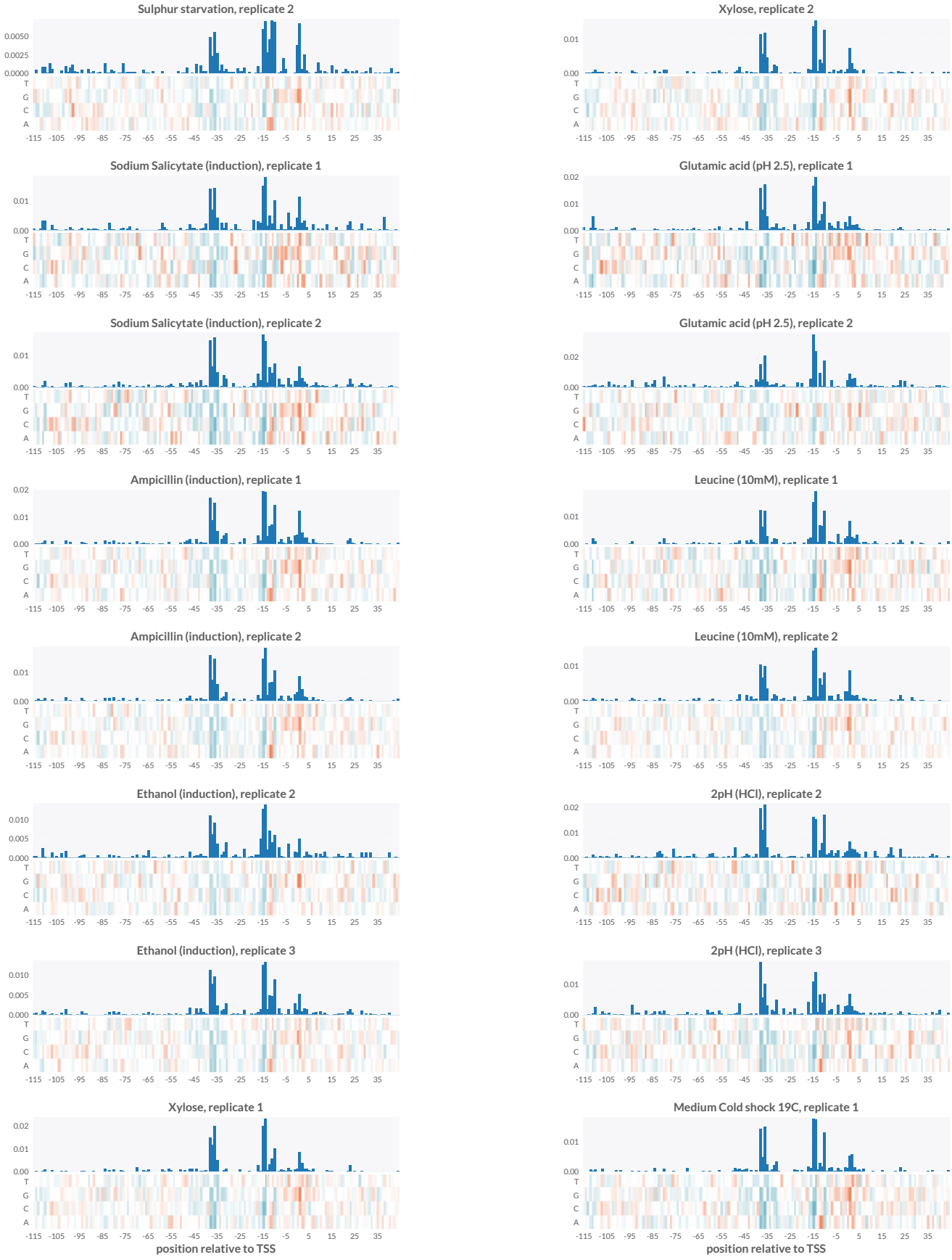
ssnAp


Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

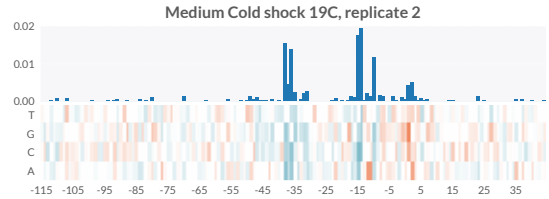
sulAp

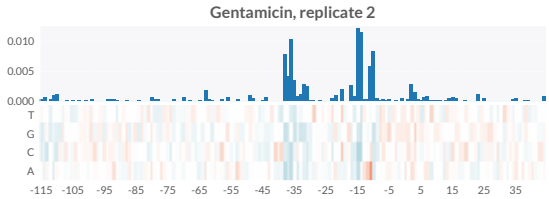

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

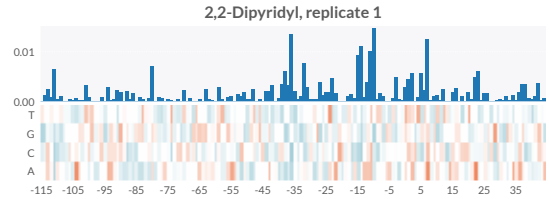
sulAp

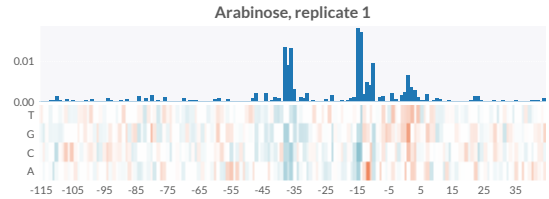

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

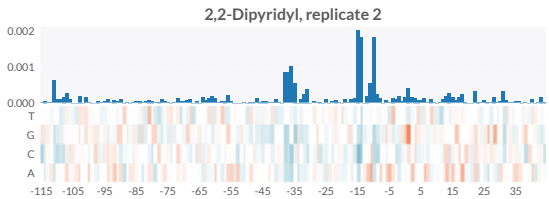
sulAp

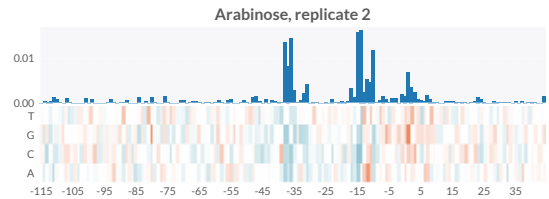

Medium Cold shock 19C, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

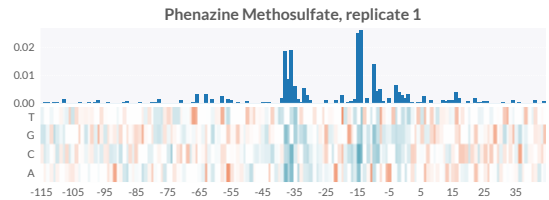

Gentamicin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

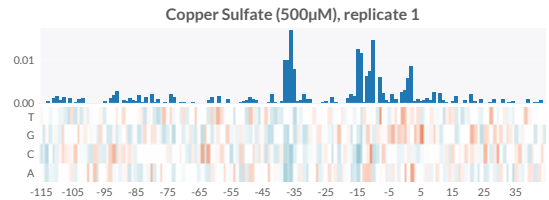

2,2-Dipyridyl, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

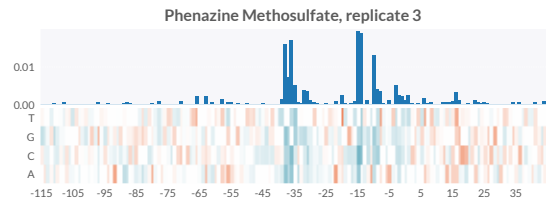

Arabinose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

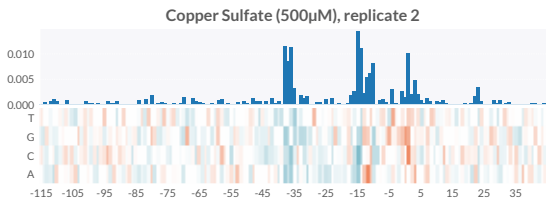

2,2-Dipyridyl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

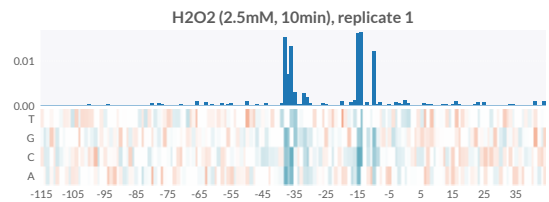

Arabinose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

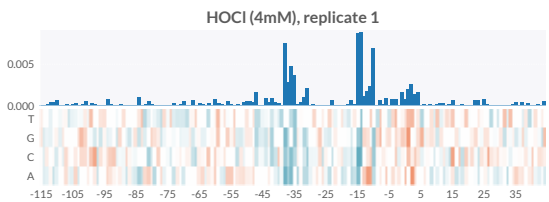

Phenazine Methosulfate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

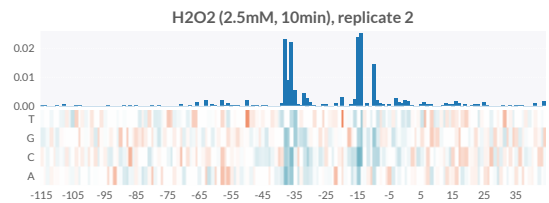

Copper Sulfate (500µM), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

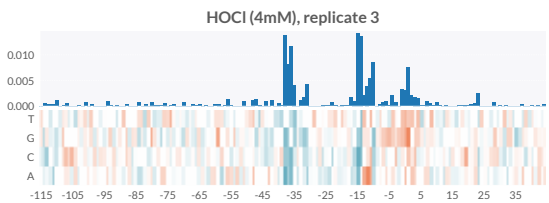

Phenazine Methosulfate, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

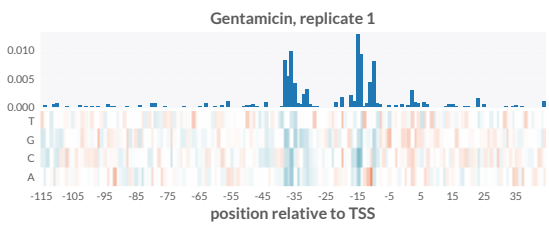

Copper Sulfate (500µM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

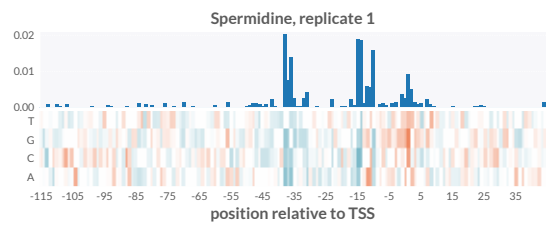

H2O2 (2.5mM, 10min), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


H2O2 (2.5mM, 10min), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

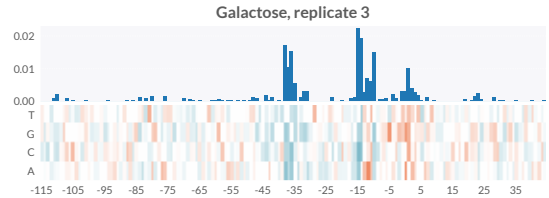

Gentamicin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

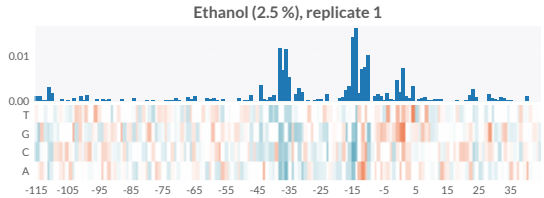

Spermidine, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

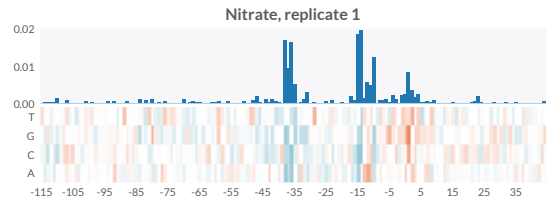
sulAp

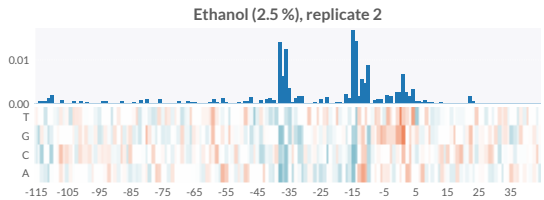

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

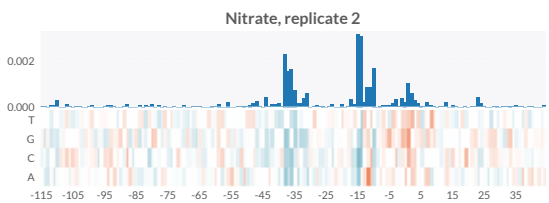
sulAp

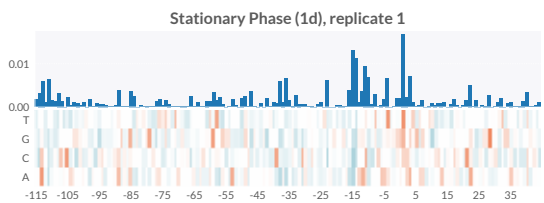

Galactose, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

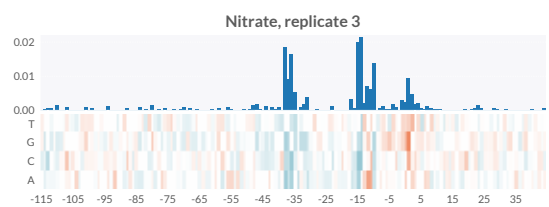

Ethanol (2.5 %), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

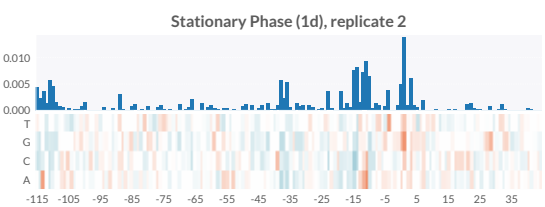

Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

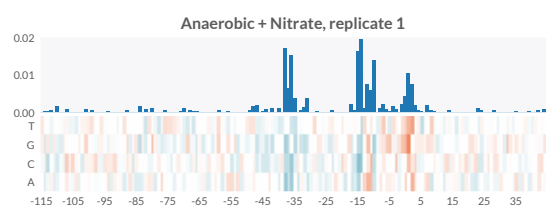

Ethanol (2.5 %), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

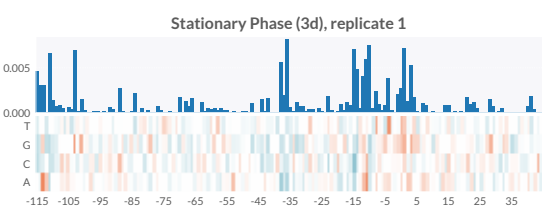

Nitrate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

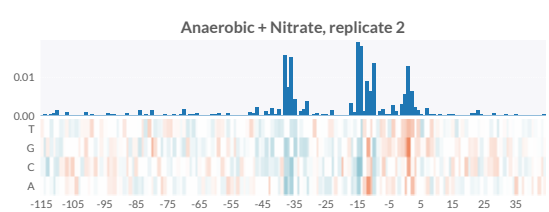

Stationary Phase (1d), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

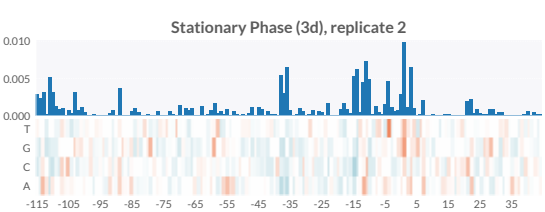

Nitrate, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

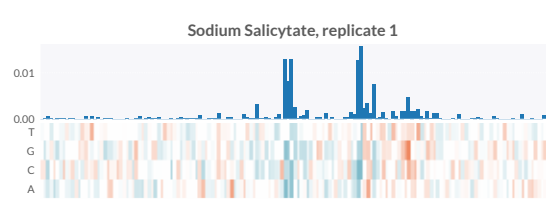

Stationary Phase (1d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

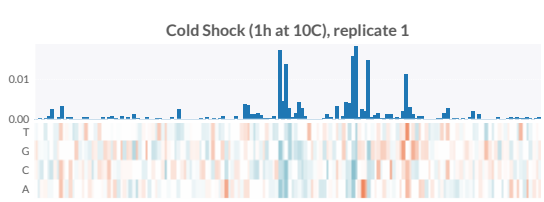

Anaerobic + Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

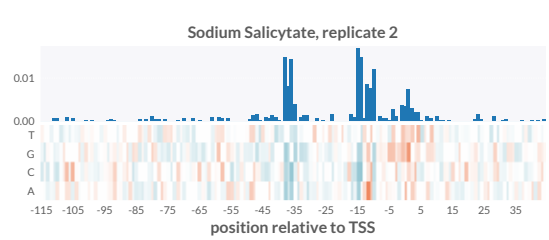

Stationary Phase (3d), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

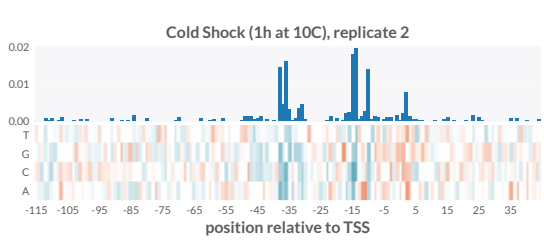

Anaerobic + Nitrate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

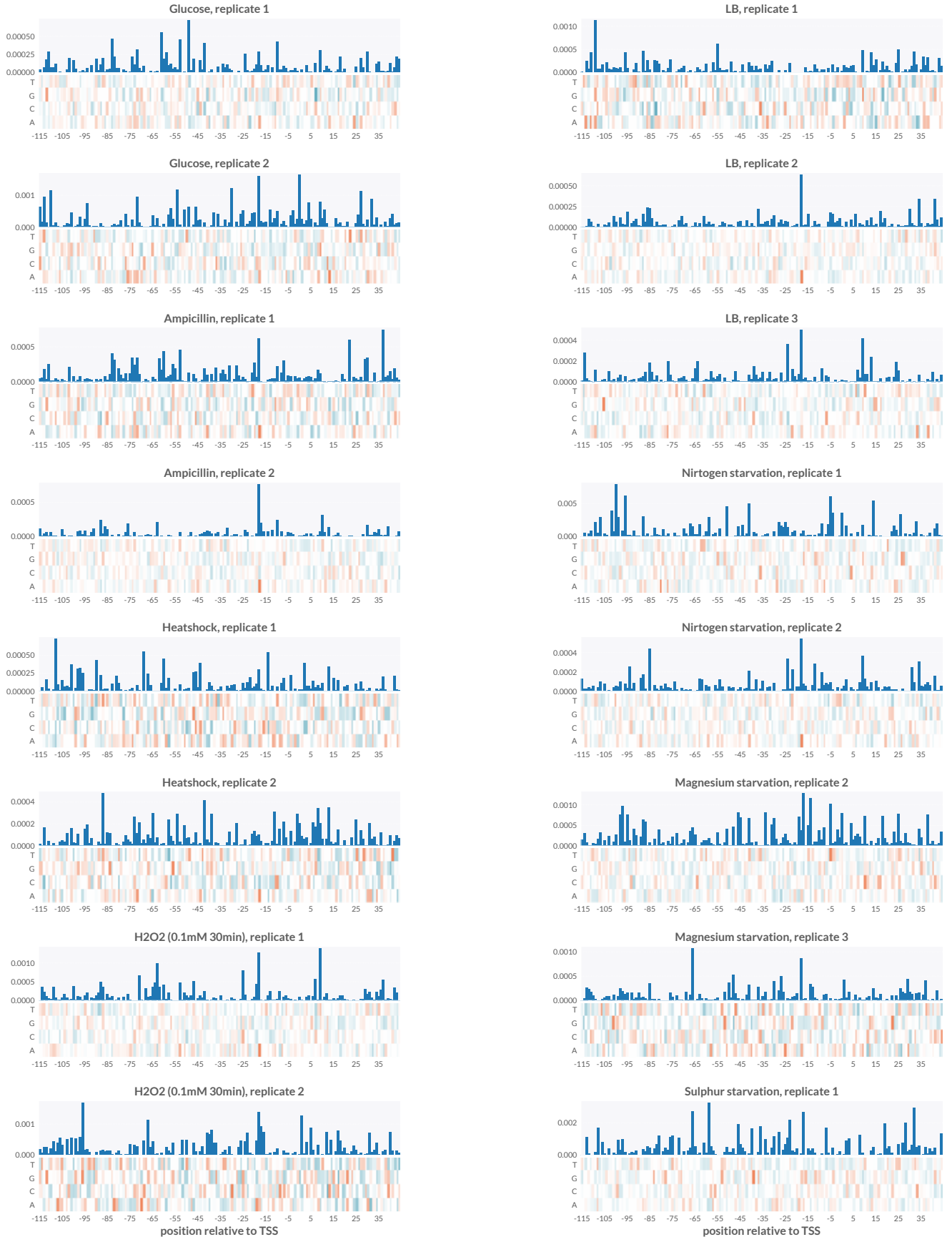

Sodium Salicytate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

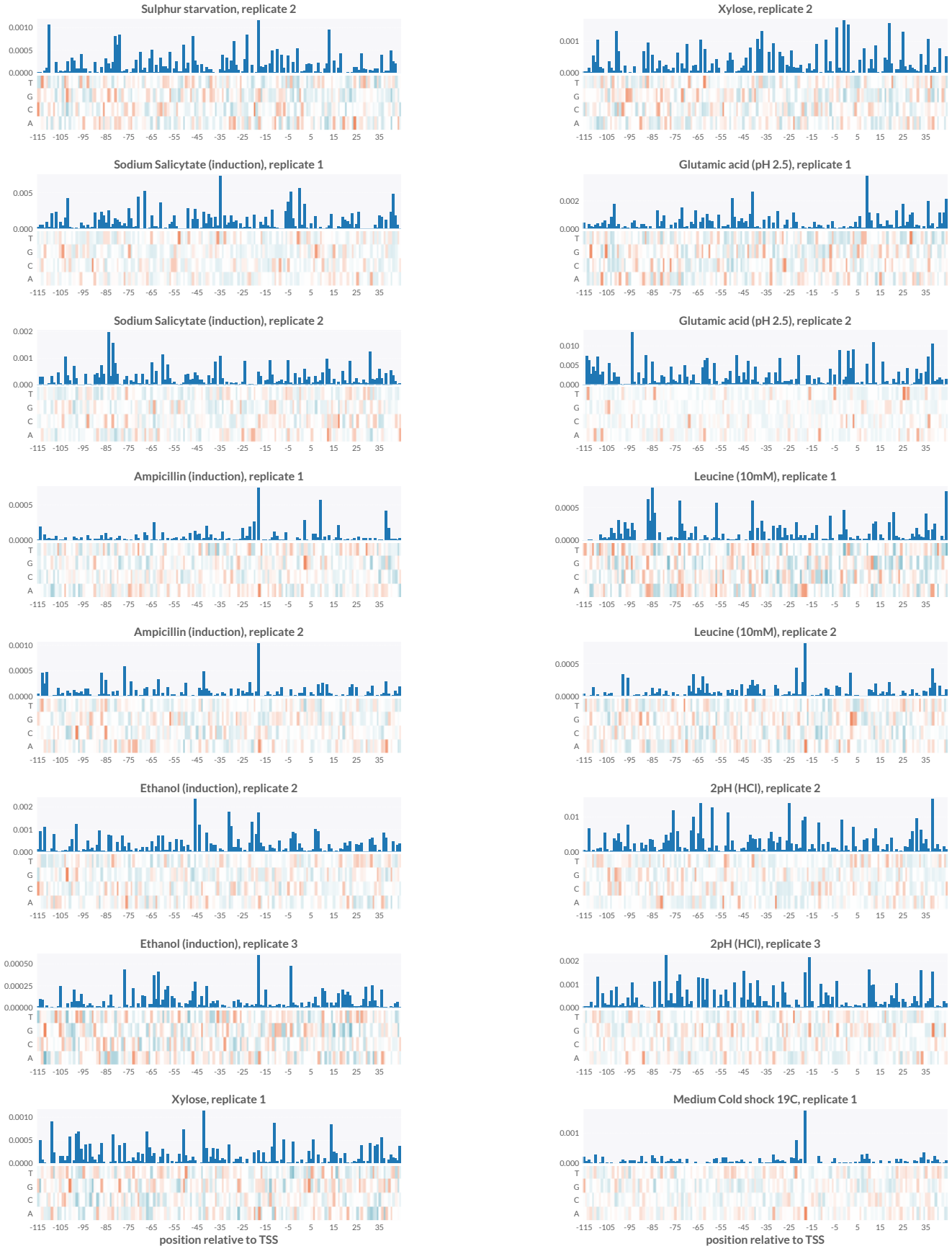

Sodium Salicytate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

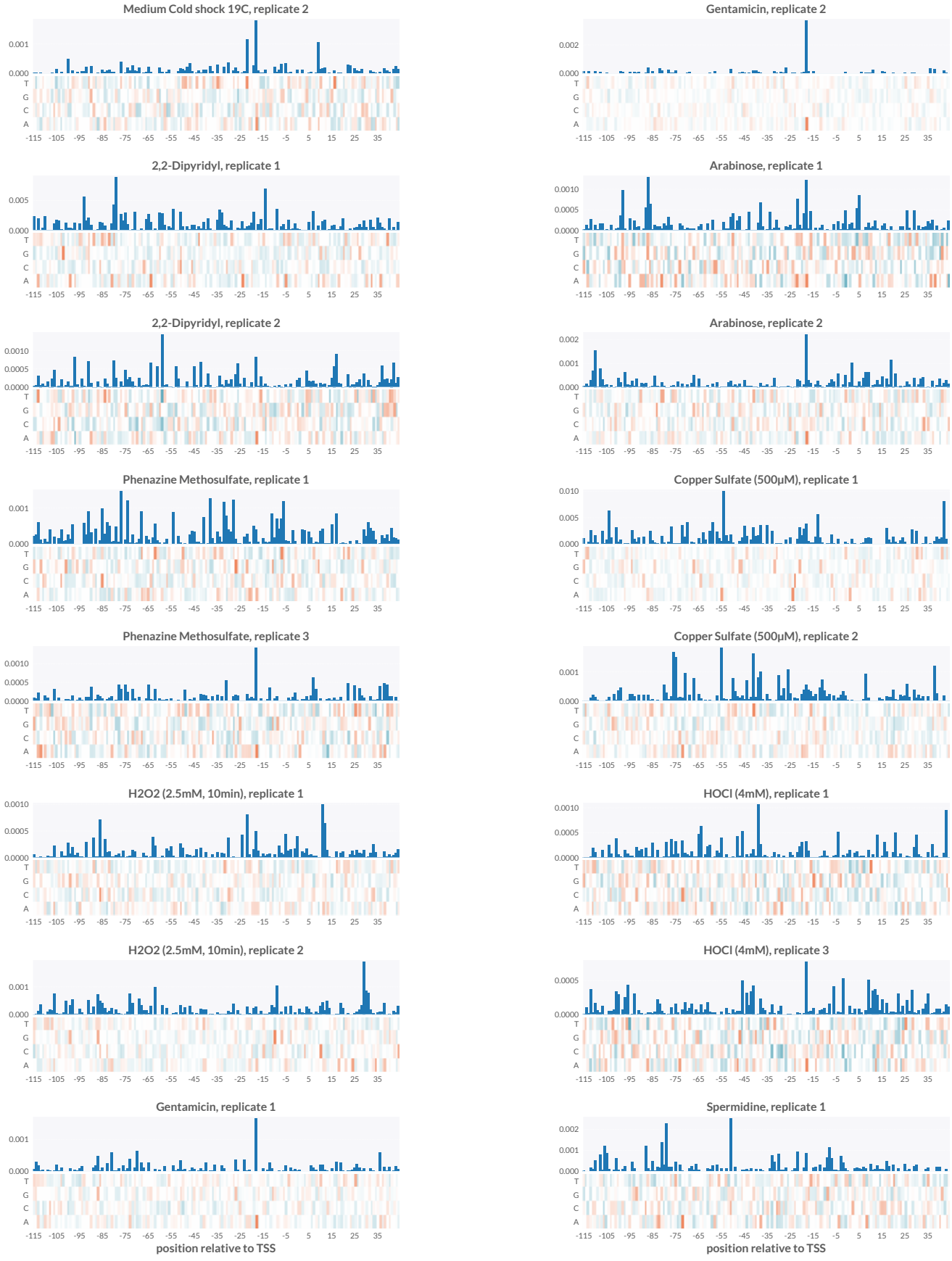
tabA_predicted



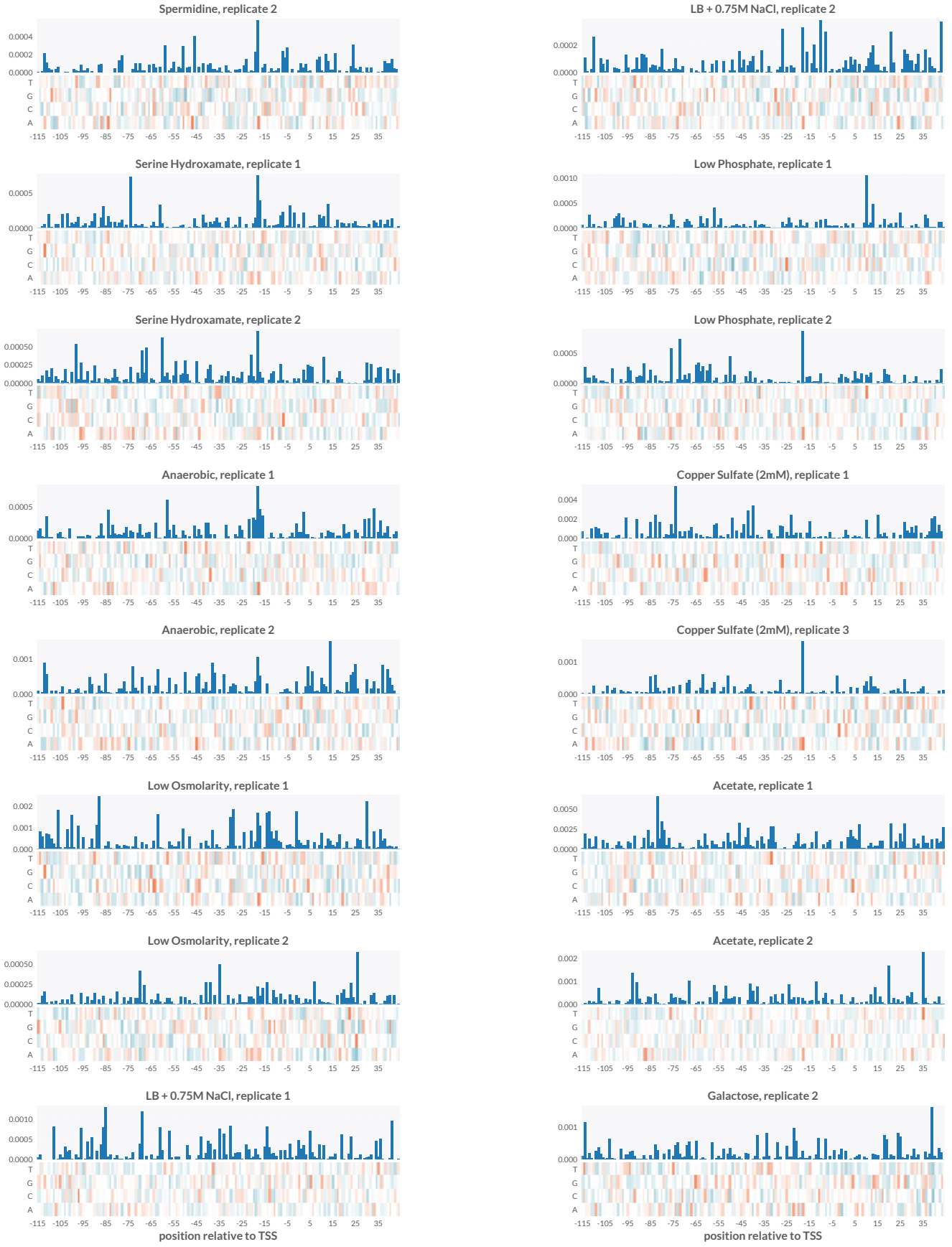
tabA_predicted



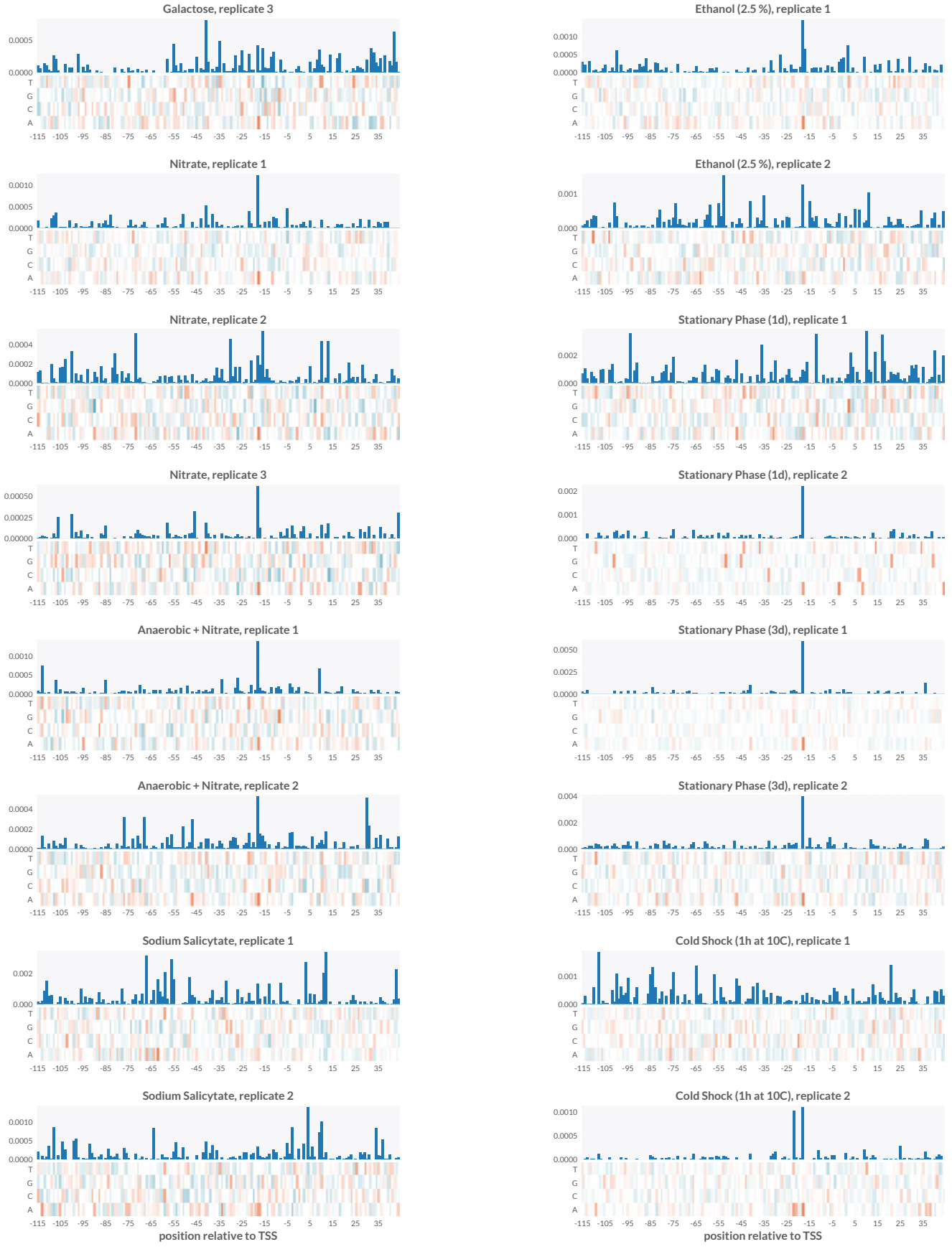
tabA_predicted



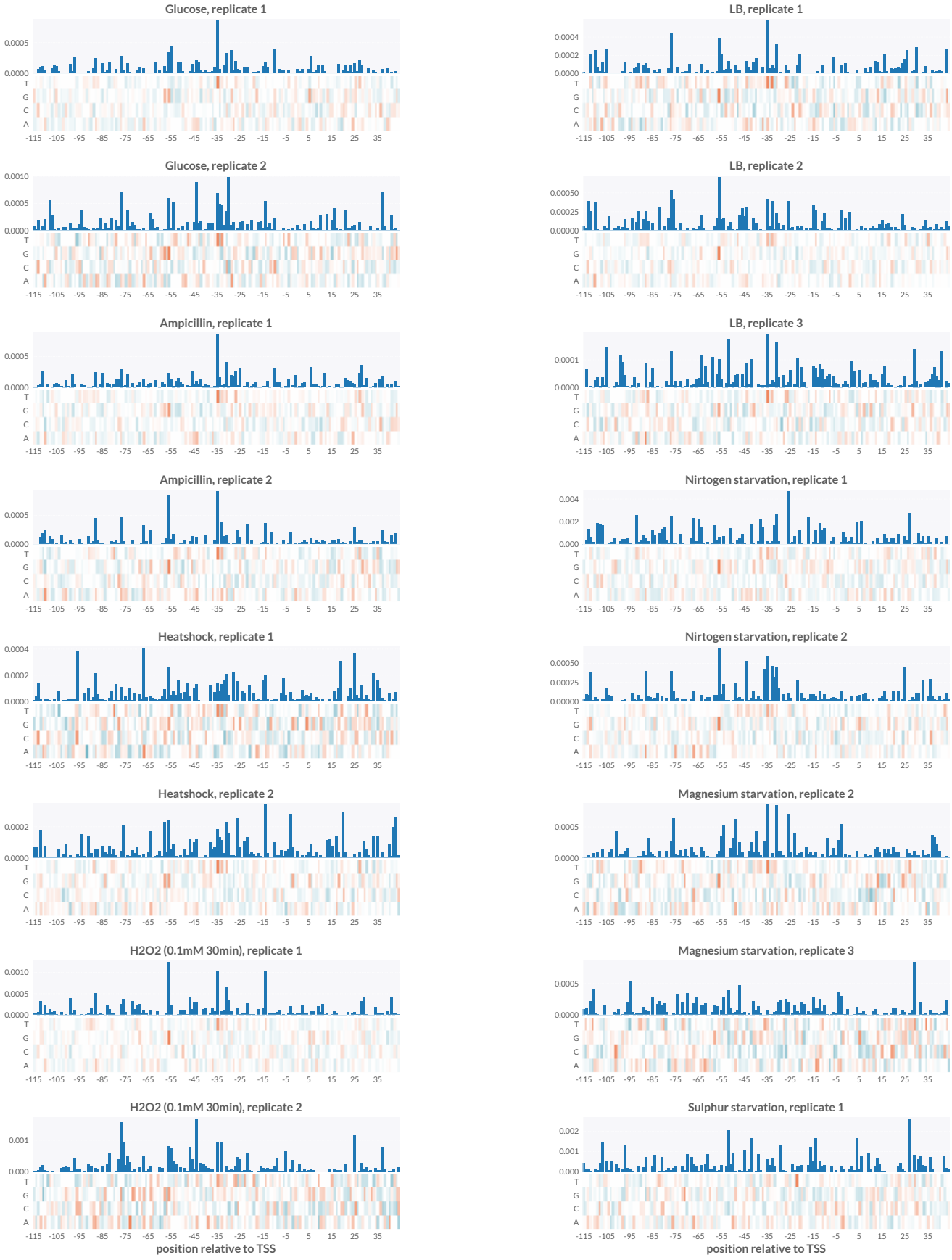
tabA_predicted



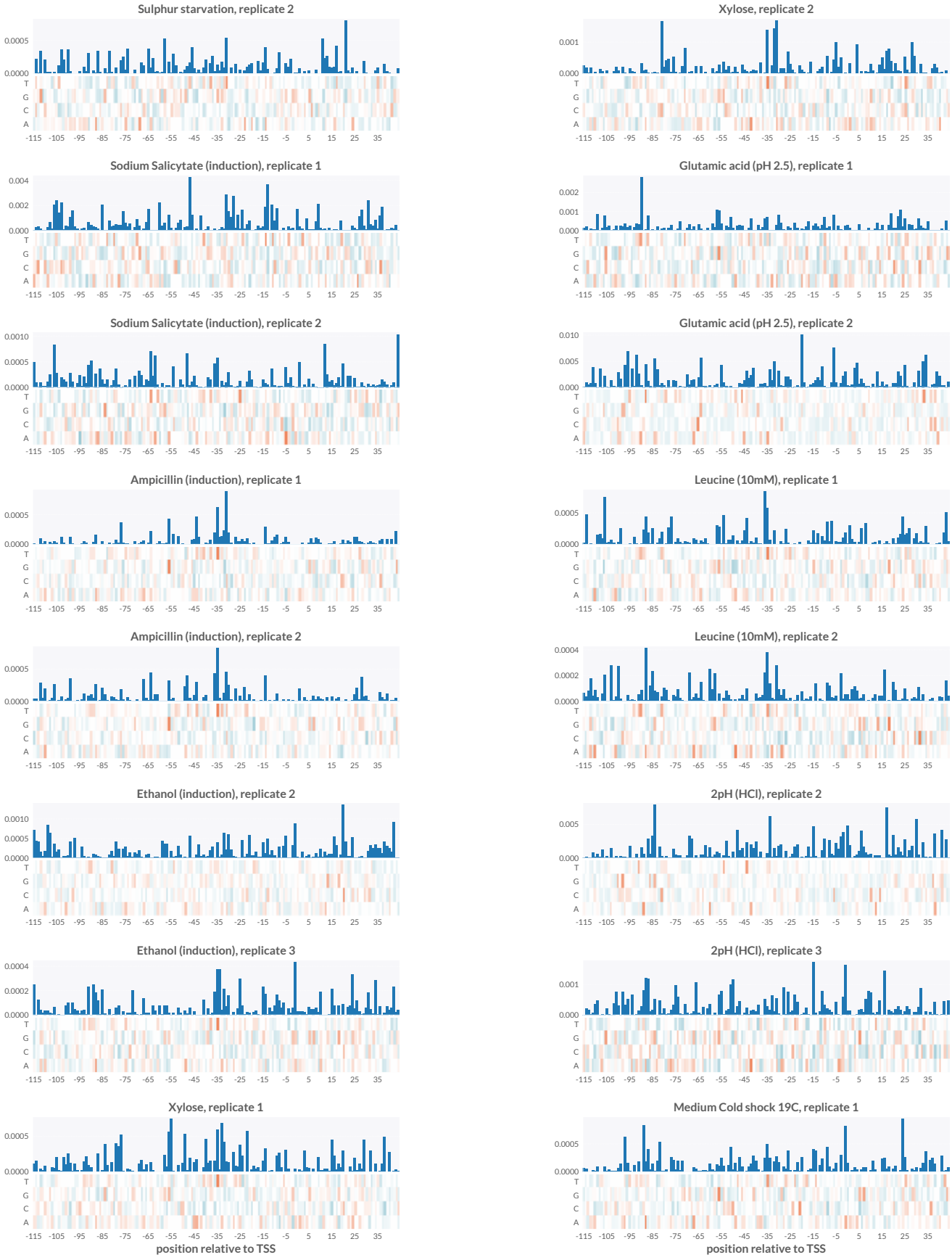
tabA_predicted



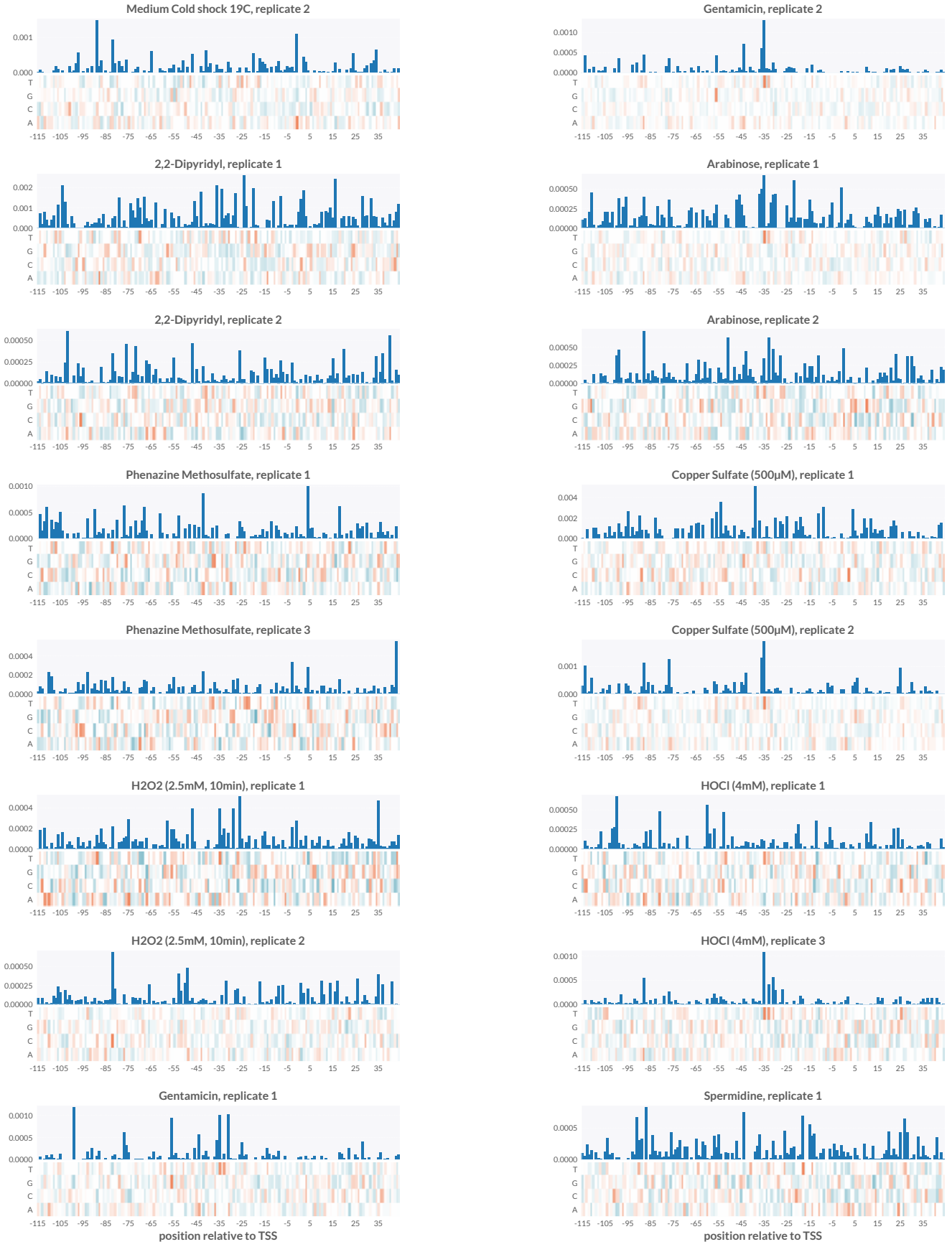
tfaE_stfE_predicted



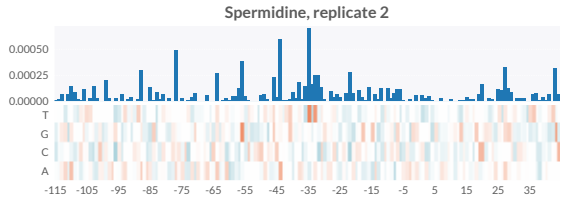
tfaE_stfE_predicted

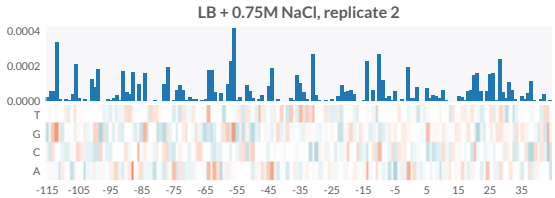


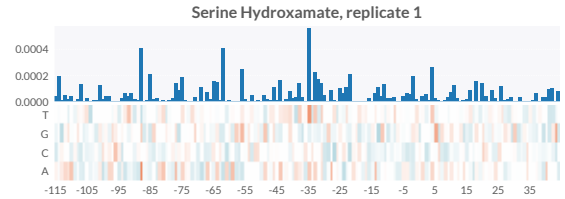
tfaE_stfE_predicted

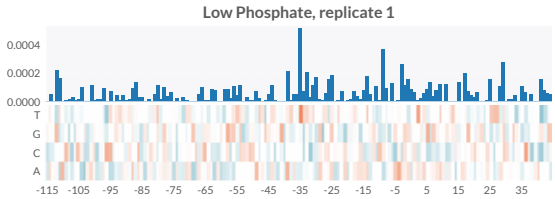


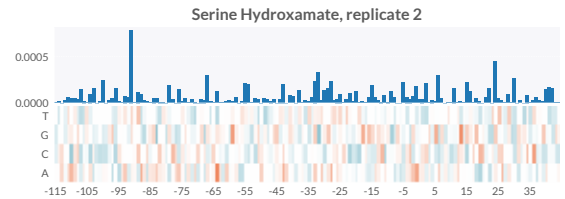
tfaE_stfE_predicted

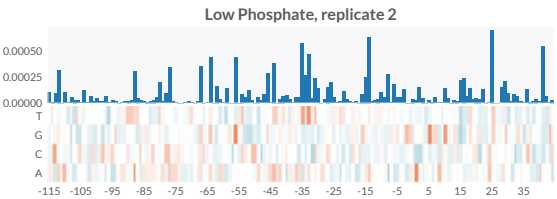


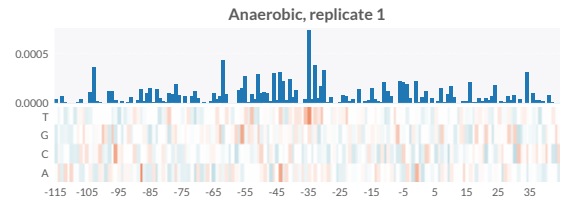


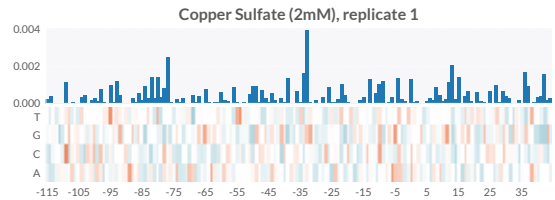


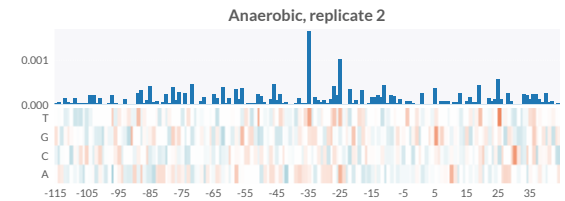


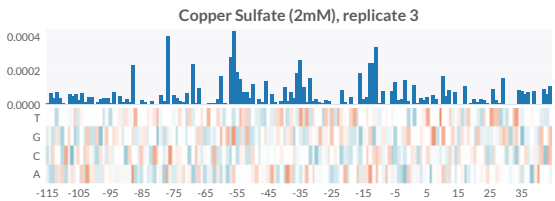


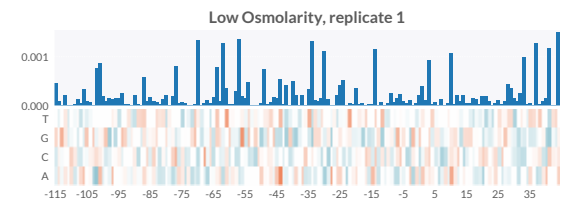


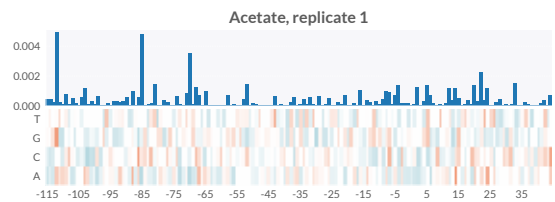


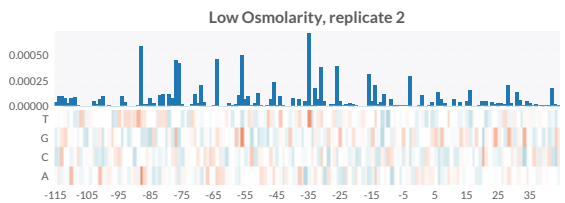


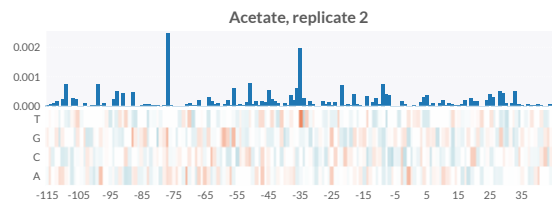


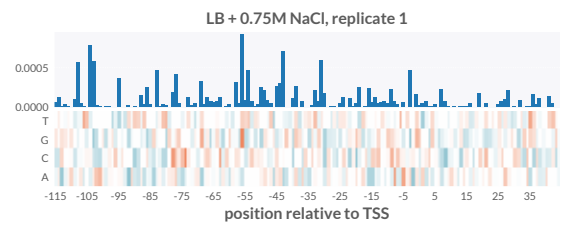


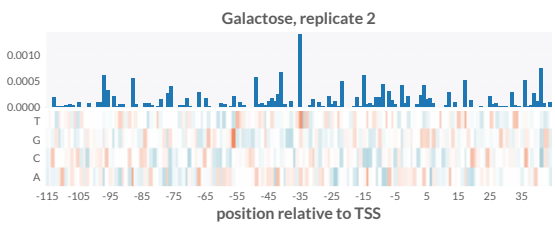




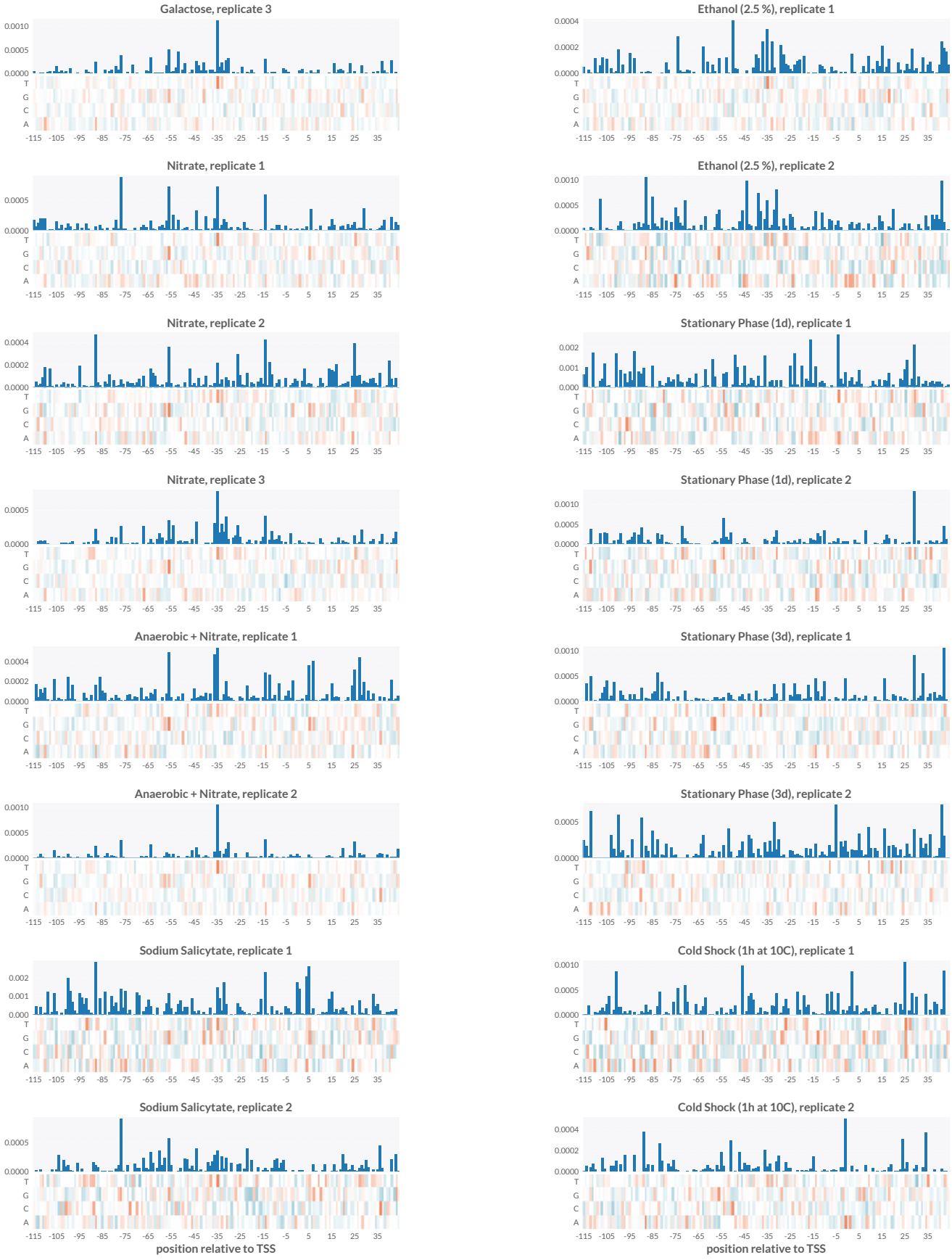




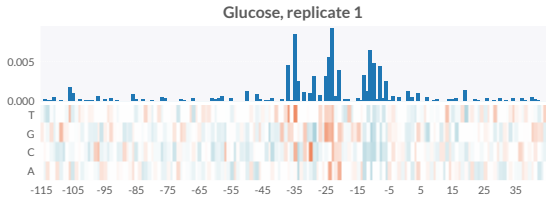


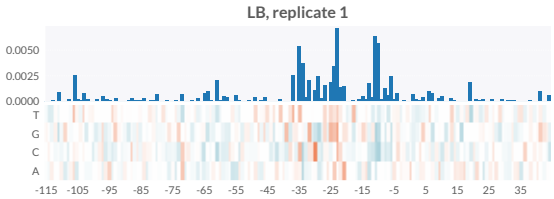


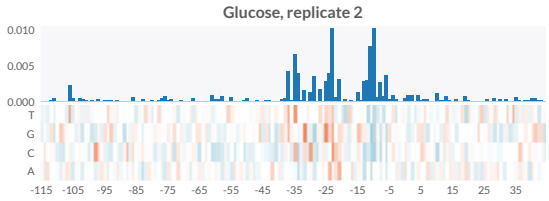
tfaE_stfE_predicted

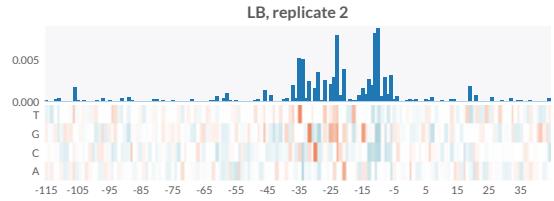


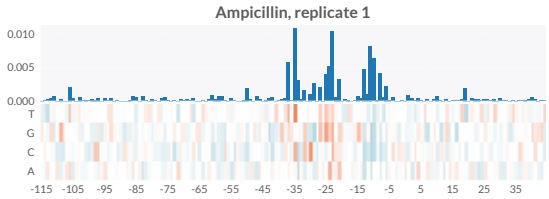
tisBp

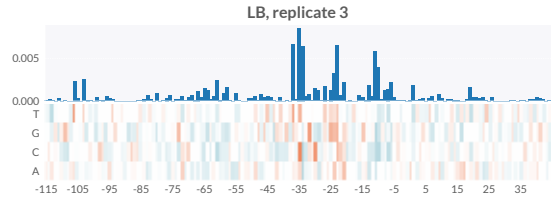

Glucose, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

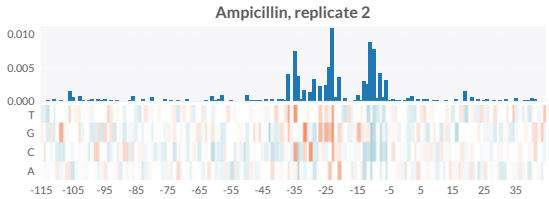

LB, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

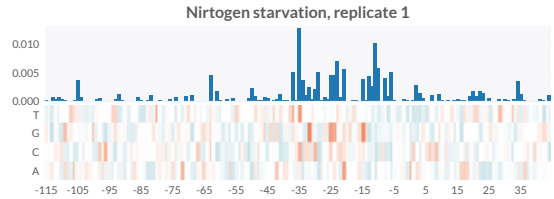

Glucose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

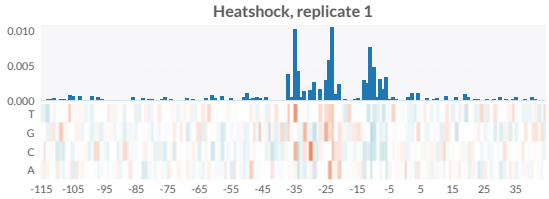

LB, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

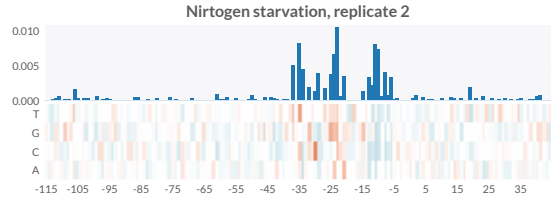

Ampicillin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

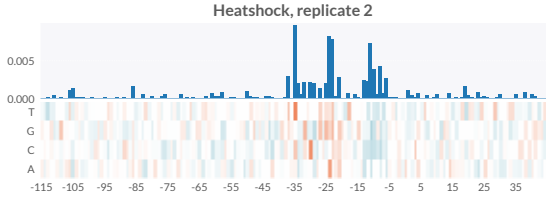

LB, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

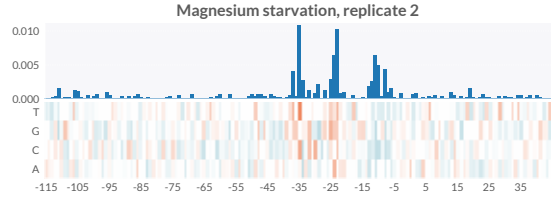

Ampicillin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

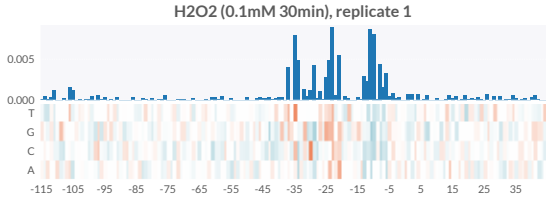

Nirtogen starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

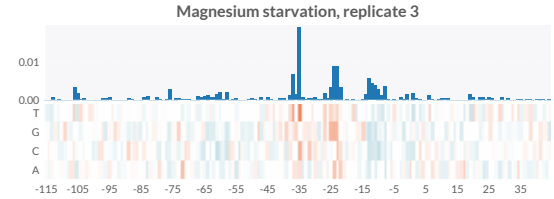

Heatshock, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

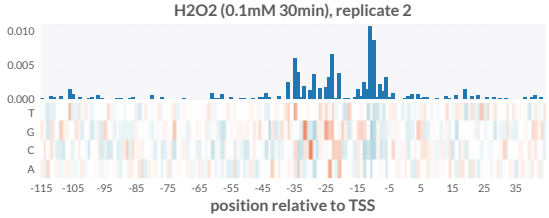

Nirtogen starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

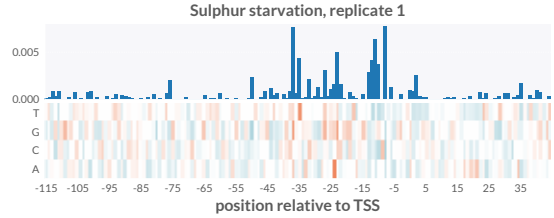

Heatshock, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

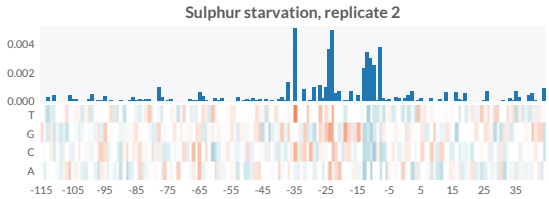

H2O2 (0.1mM 30min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

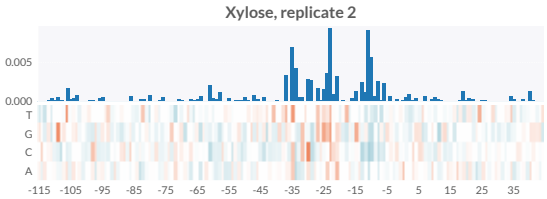

Magnesium starvation, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

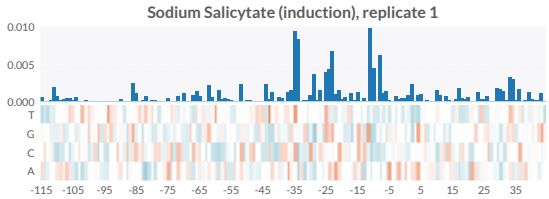

H2O2 (0.1mM 30min), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

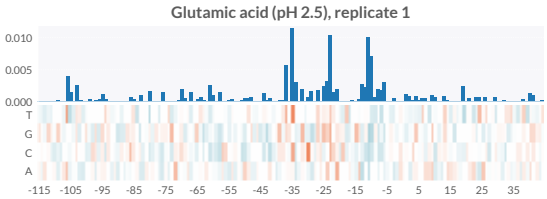

Sulphur starvation, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

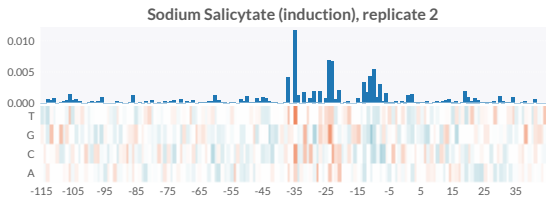
tisBp

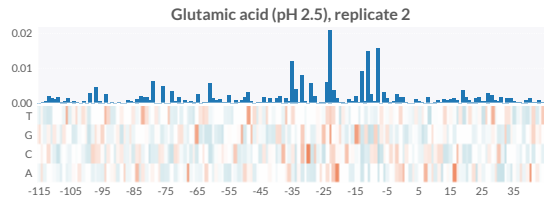

Sulphur starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

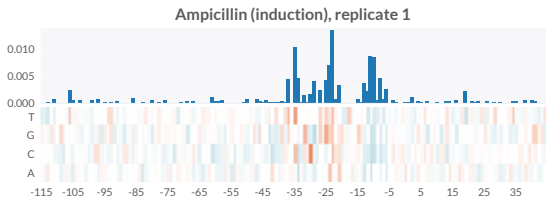

Xylose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

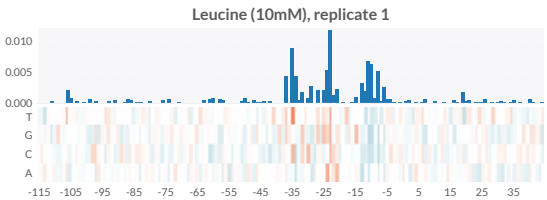

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

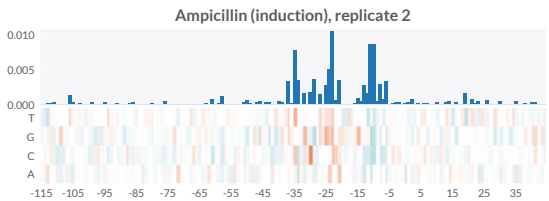

Glutamic acid (pH 2.5), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

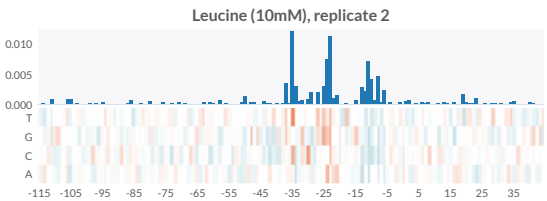

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

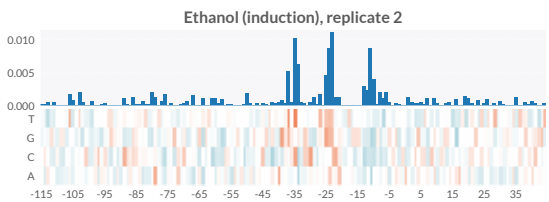

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

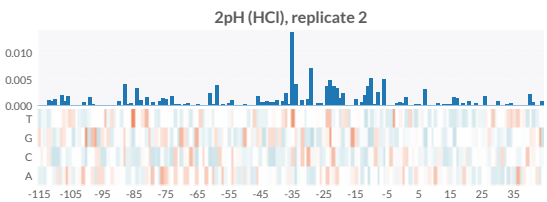

Ampicillin (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

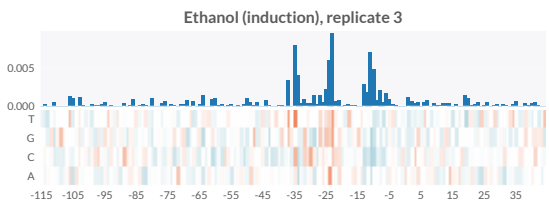

Leucine (10mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

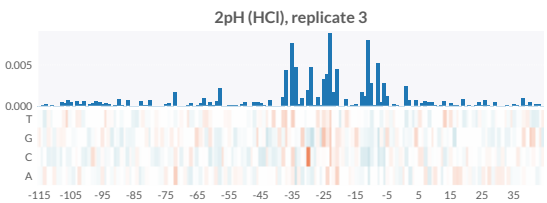

Ampicillin (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

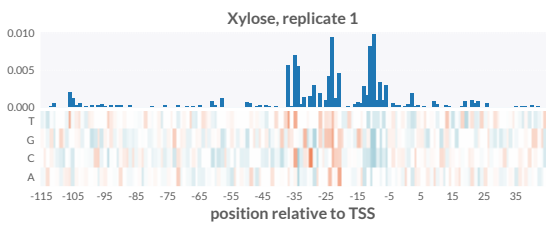

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

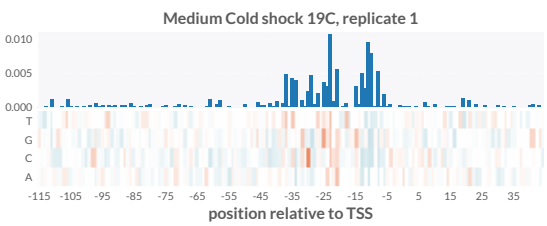

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

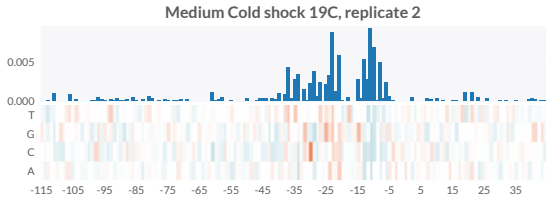

Ethanol (induction), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

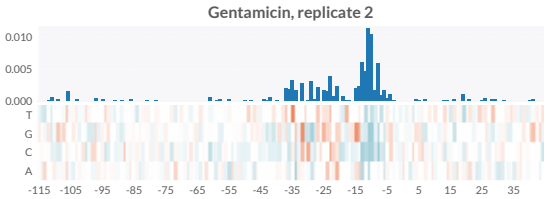

2pH (HCl), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

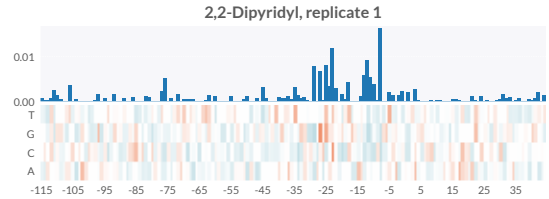

Xylose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

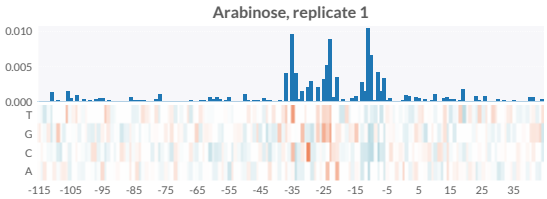

Medium Cold shock 19C, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

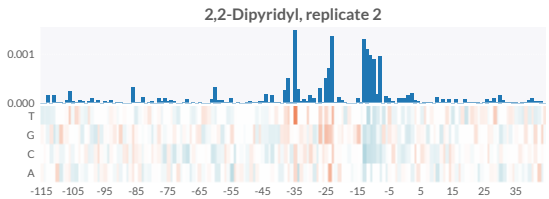
tisBp

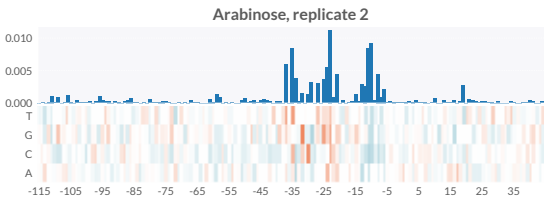

Medium Cold shock 19C, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

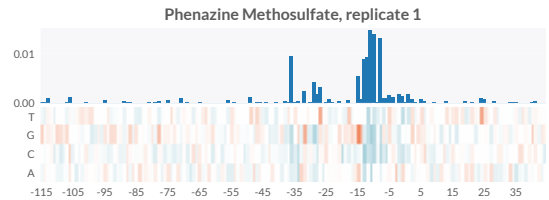

Gentamicin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

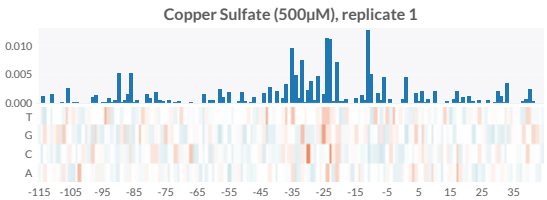

2,2-Dipyridyl, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

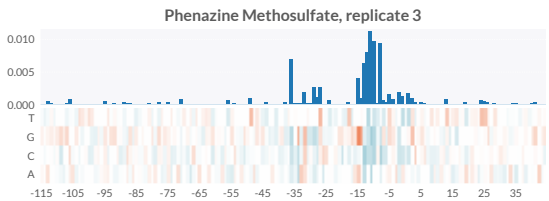

Arabinose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

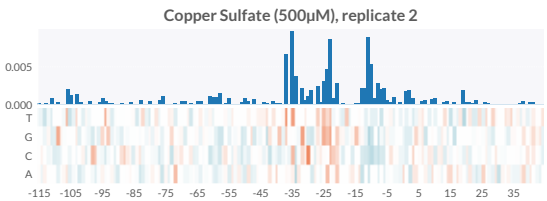

2,2-Dipyridyl, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

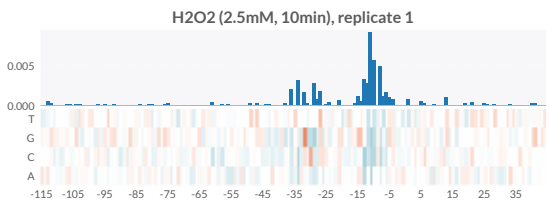

Arabinose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

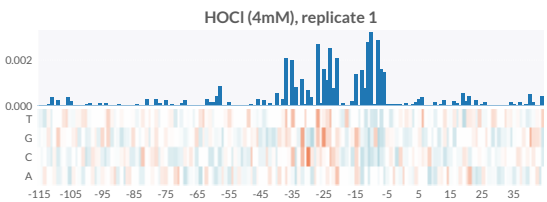

Phenazine Methosulfate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

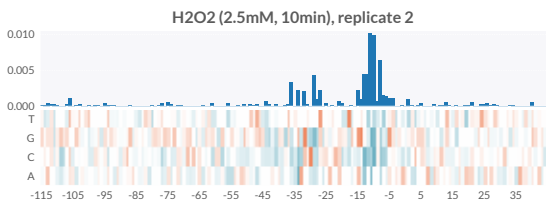

Copper Sulfate (500µM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

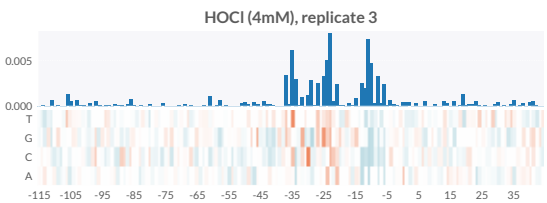

Phenazine Methosulfate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

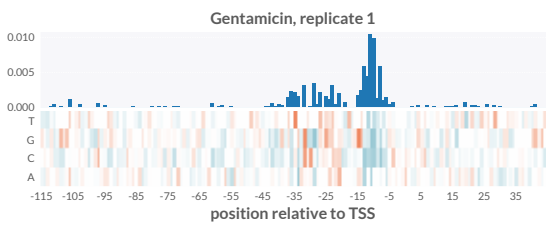

Copper Sulfate (500µM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

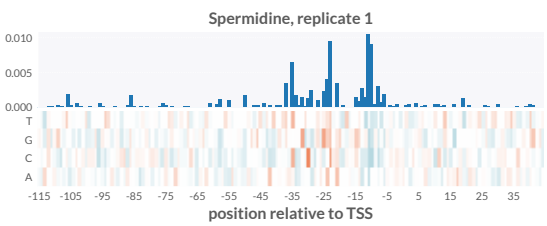

H2O2 (2.5mM, 10min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

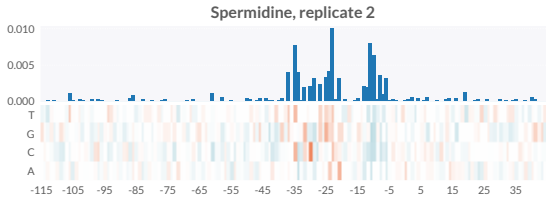

H2O2 (2.5mM, 10min), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

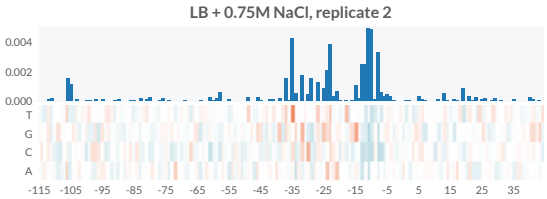

HOCl (4mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

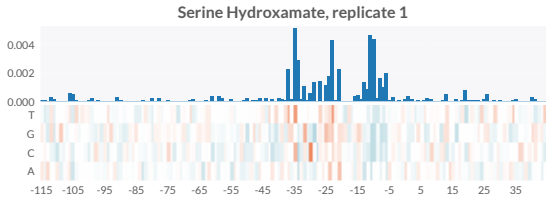

Gentamicin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

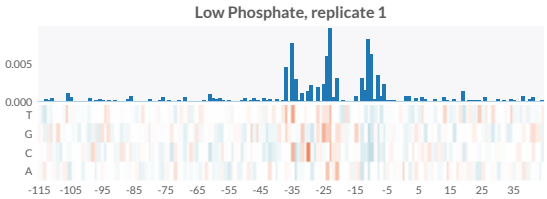

Spermidine, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

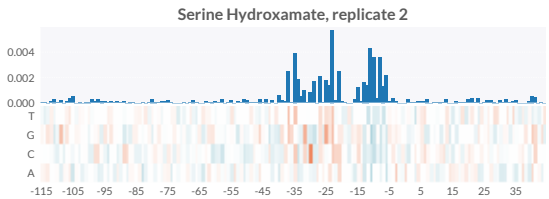
tisBp

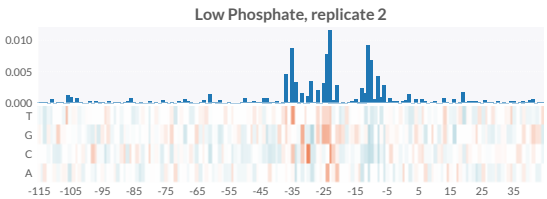

Spermidine, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

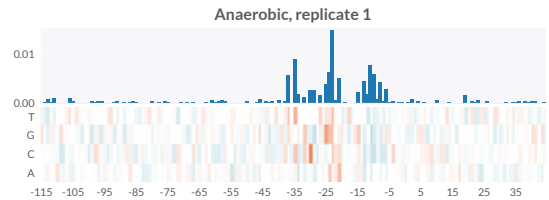

LB + 0.75M NaCl, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

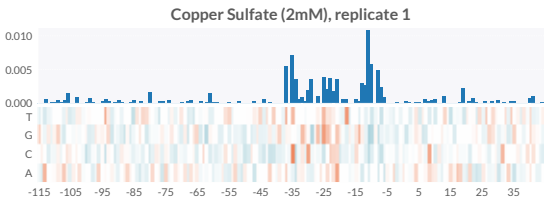

Serine Hydroxamate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

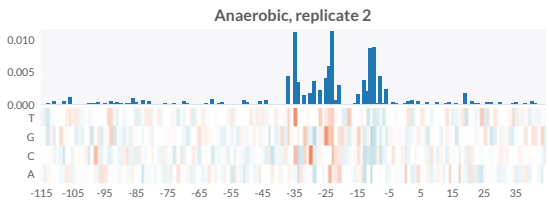

Low Phosphate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

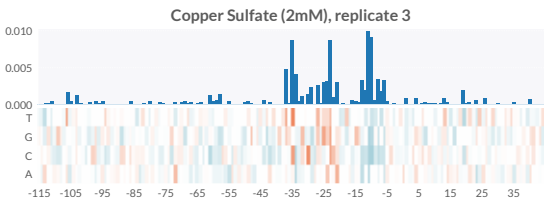

Serine Hydroxamate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

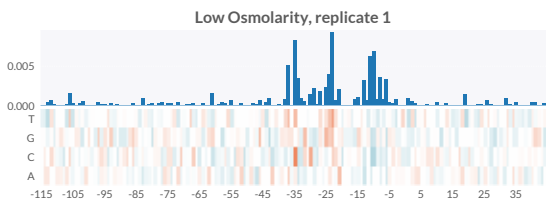

Low Phosphate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

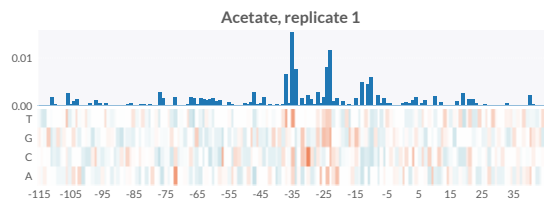

Anaerobic, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

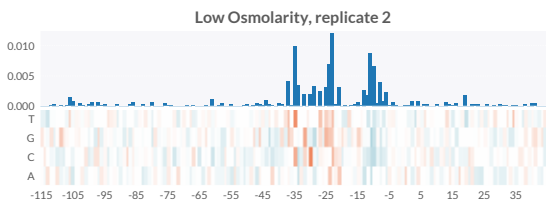

Copper Sulfate (2mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

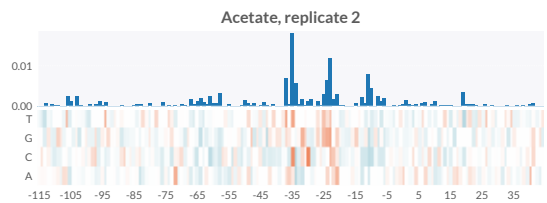

Anaerobic, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

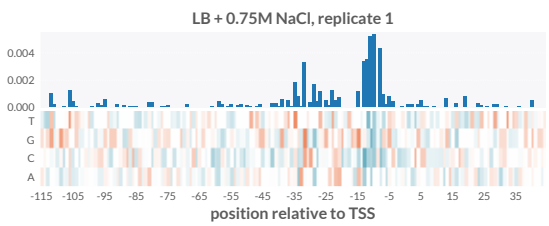

Copper Sulfate (2mM), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

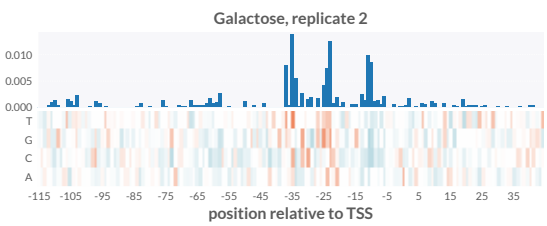

Low Osmolarity, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

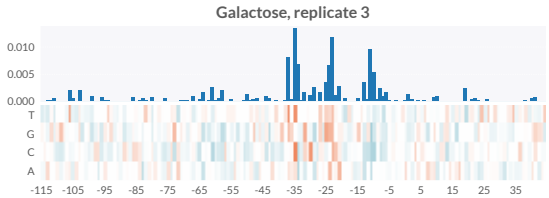

Low Osmolarity, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

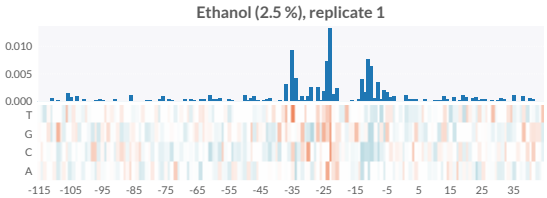

Acetate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

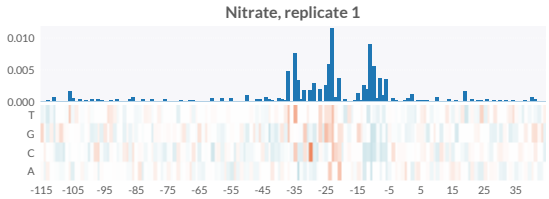

LB + 0.75M NaCl, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

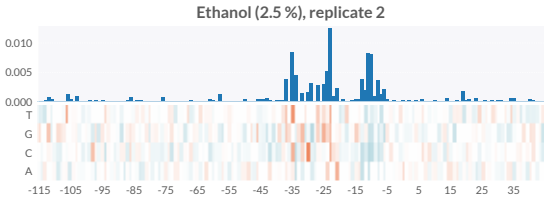

Galactose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

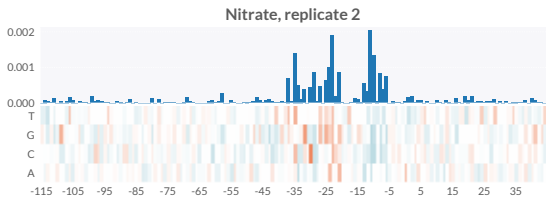
tisBp

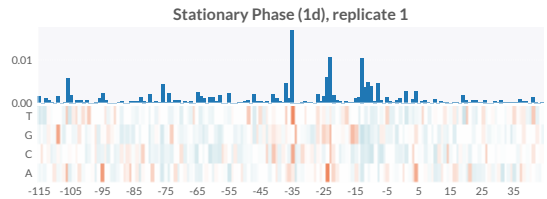

Galactose, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

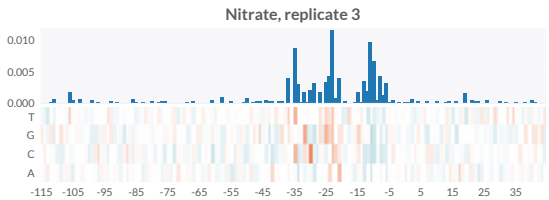

Ethanol (2.5 %), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

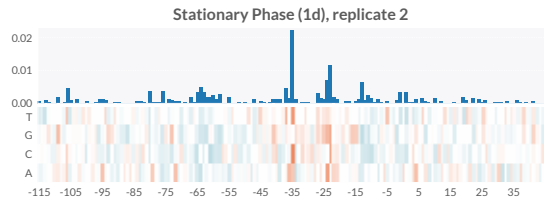

Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

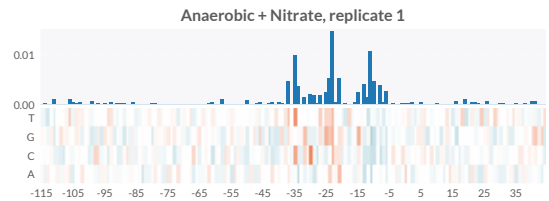

Ethanol (2.5 %), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

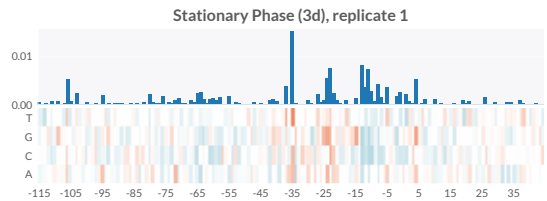

Nitrate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

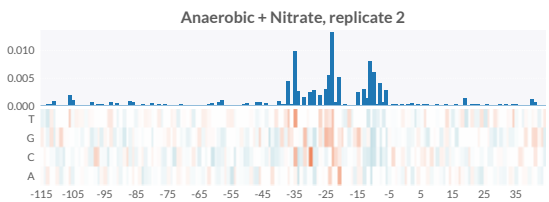

Stationary Phase (1d), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

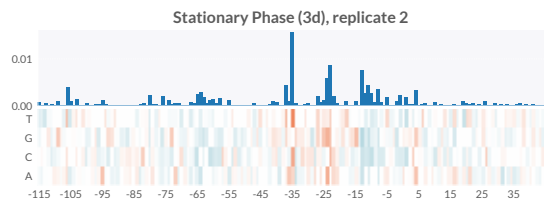

Nitrate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

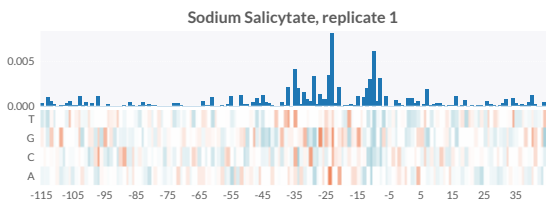

Stationary Phase (1d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

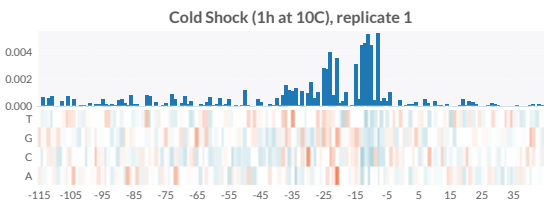

Anaerobic + Nitrate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

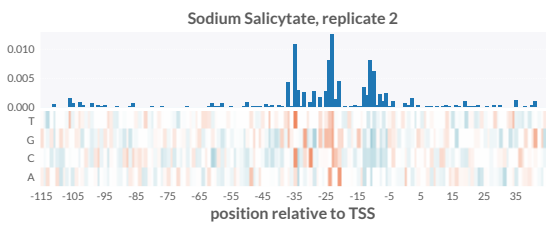

Stationary Phase (3d), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

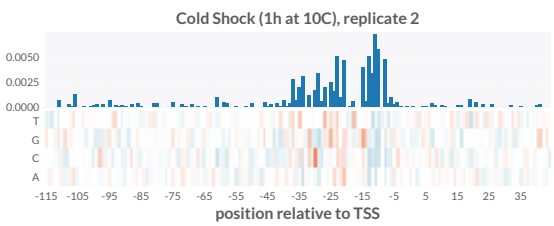

Anaerobic + Nitrate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

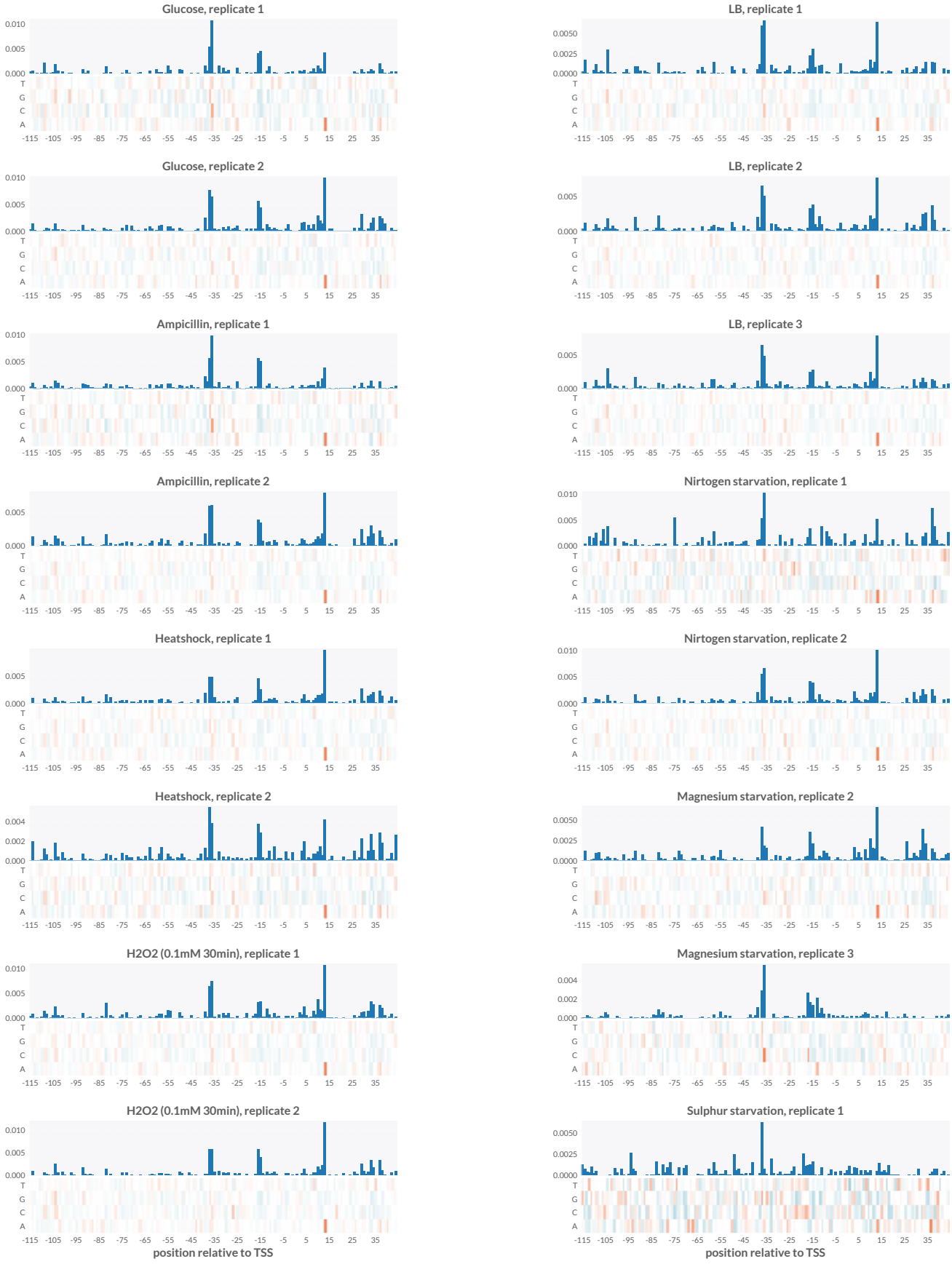

Sodium Salicytate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

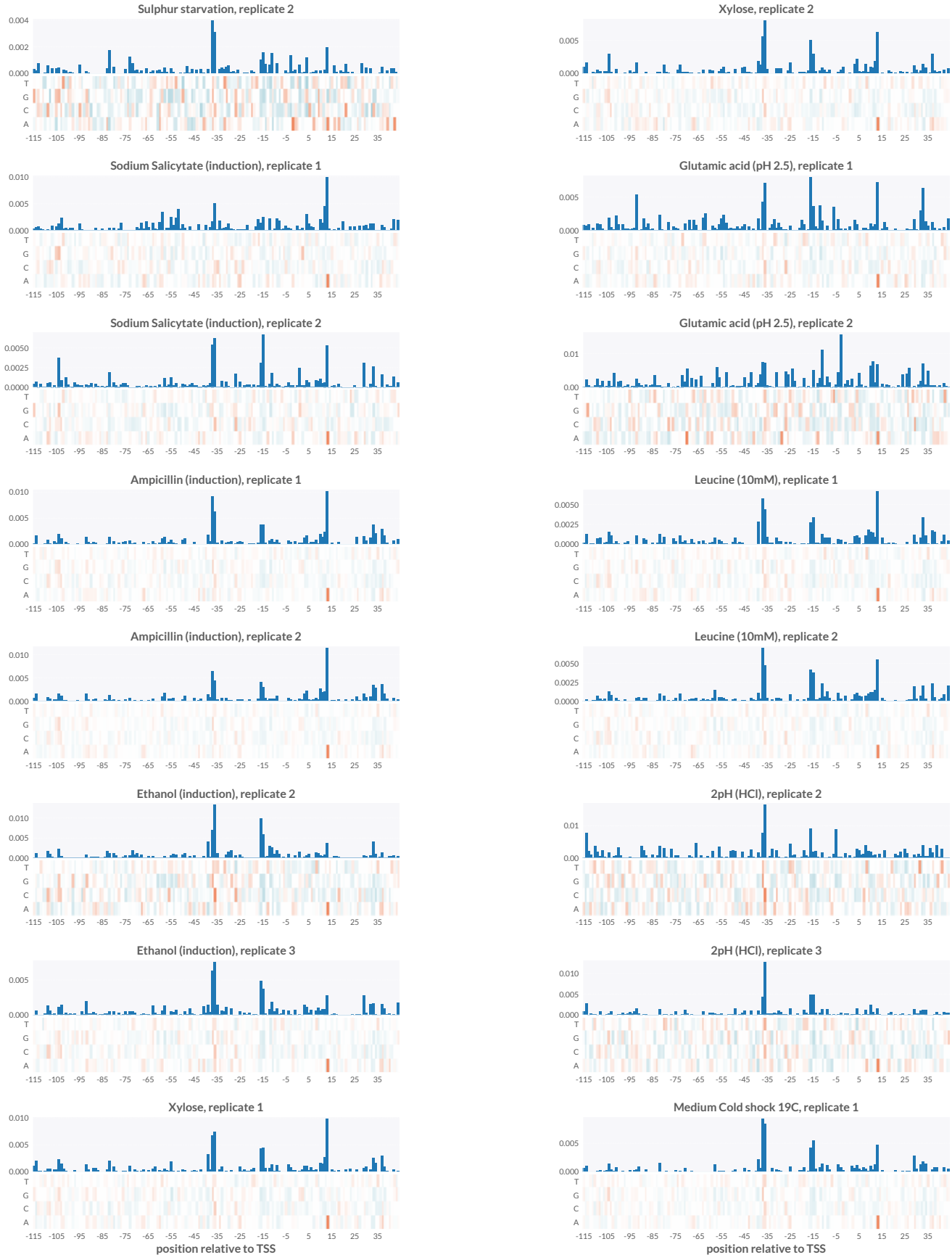

Sodium Salicytate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

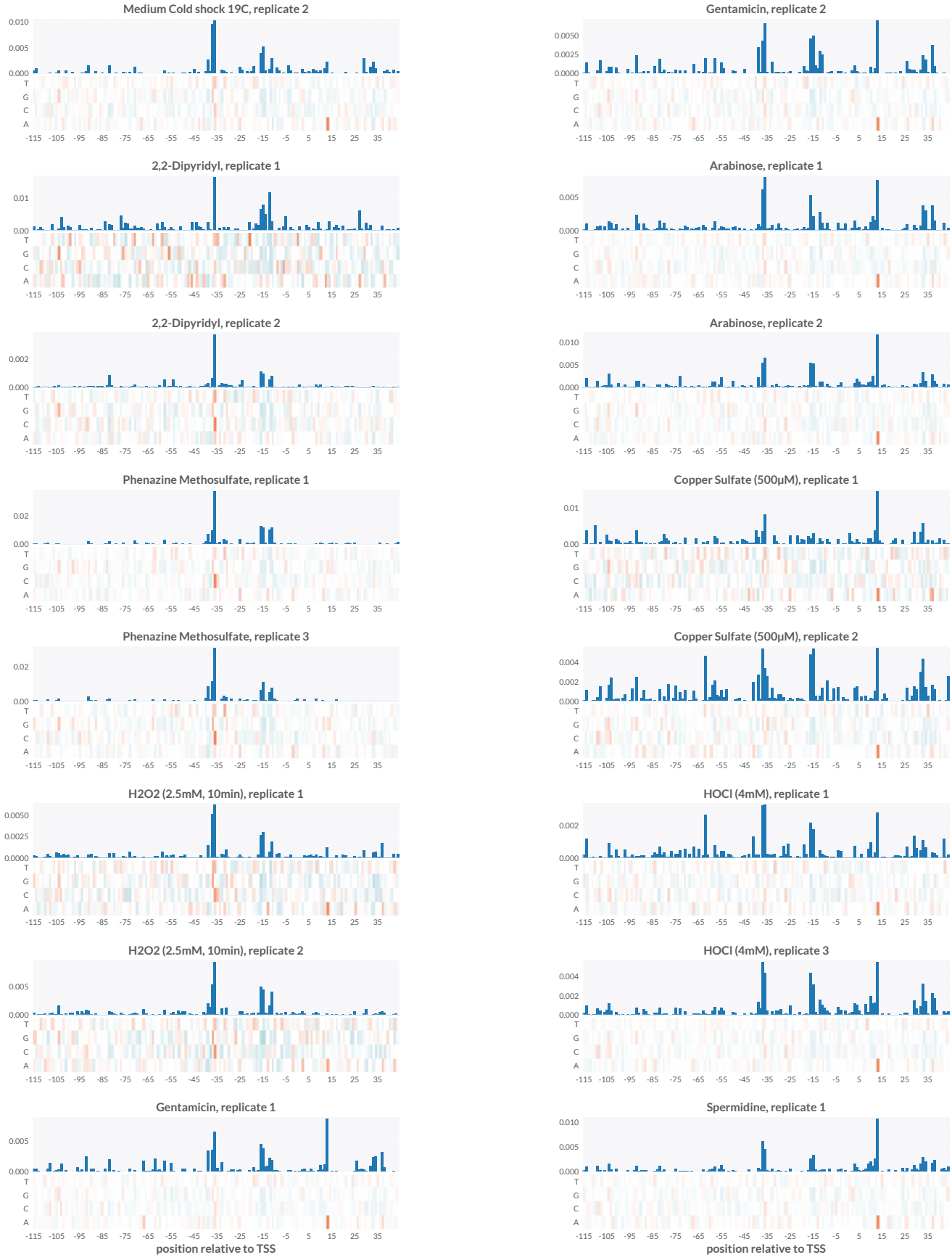
tmaR_predicted



tmaR_predicted



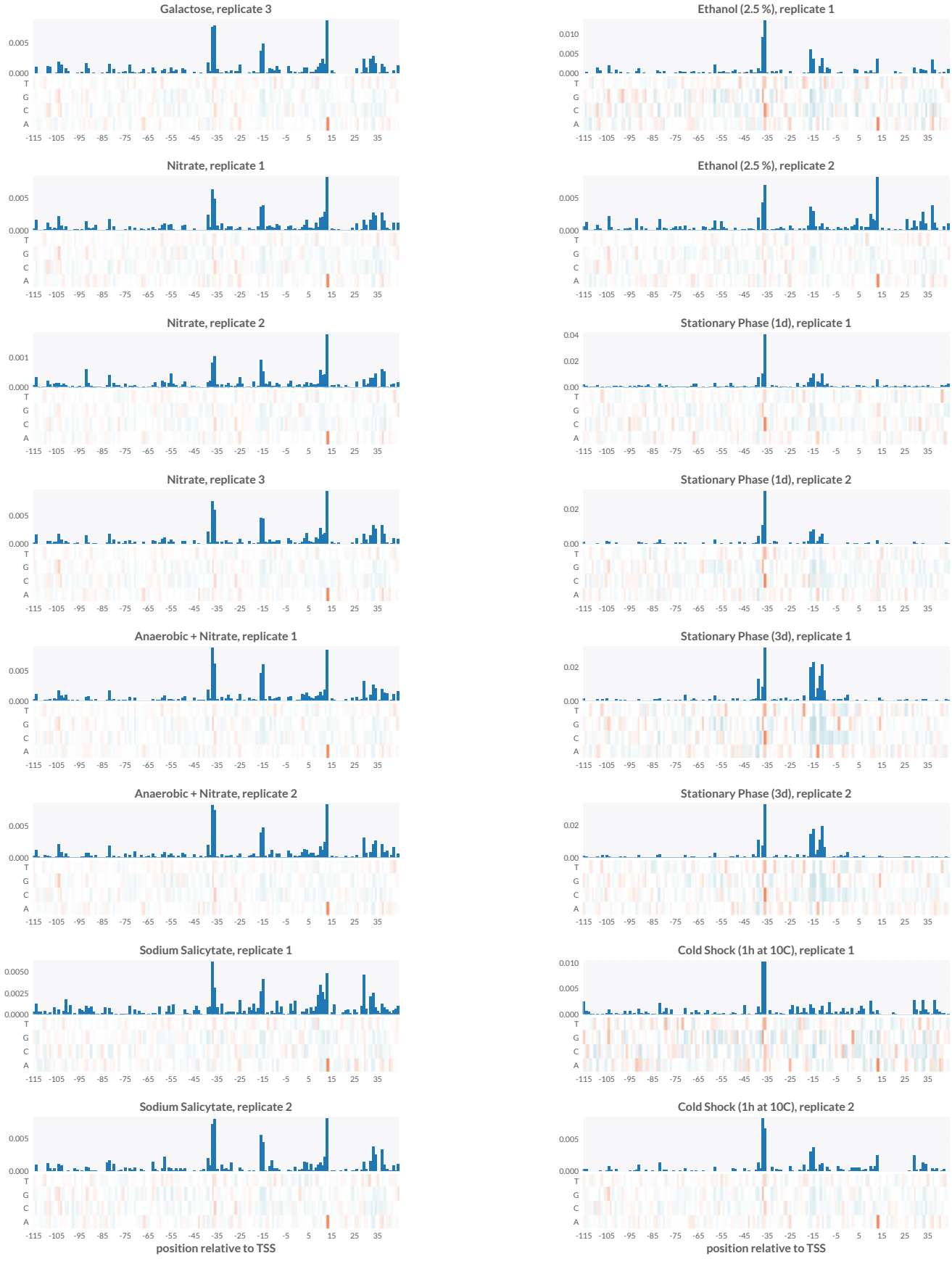
tmaR_predicted



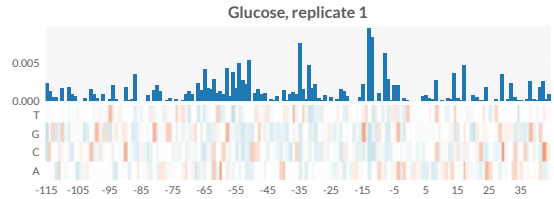
tmaR_predicted

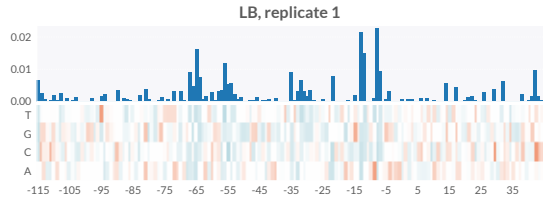


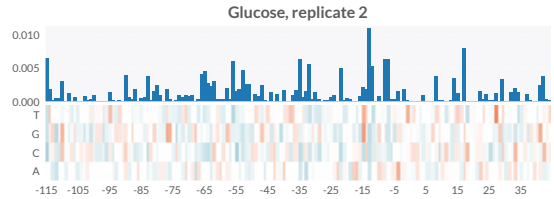
tmaR_predicted

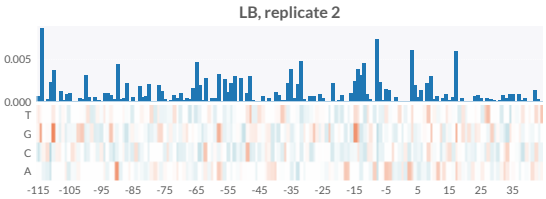


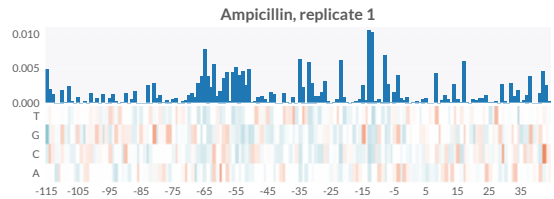
tnaCp

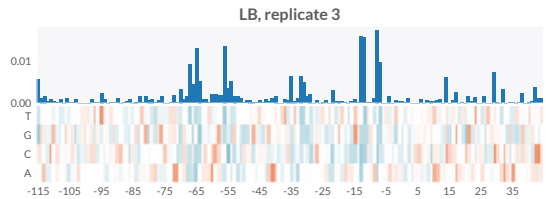

Glucose, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

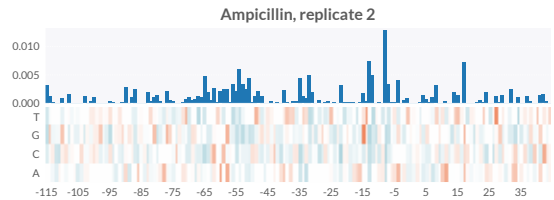

LB, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

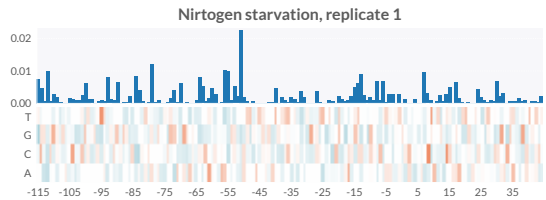

Glucose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

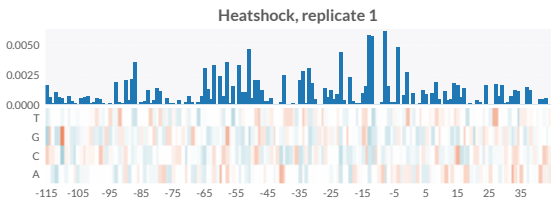

LB, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

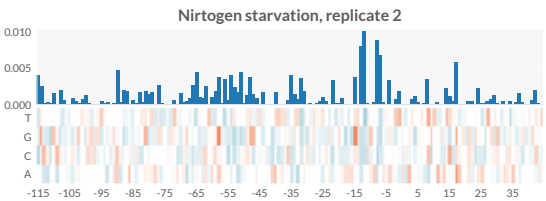

Ampicillin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

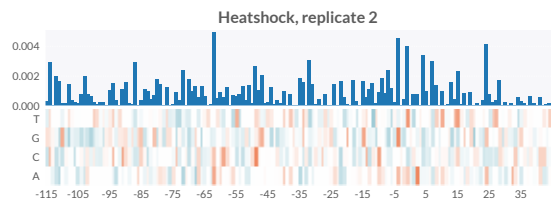

LB, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

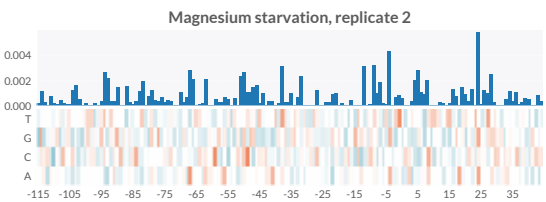

Ampicillin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

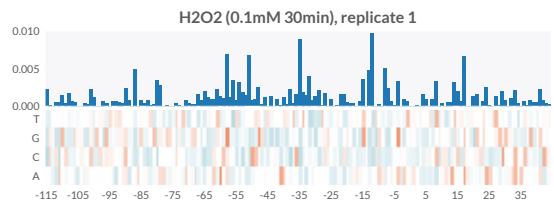

Nirtogen starvation, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

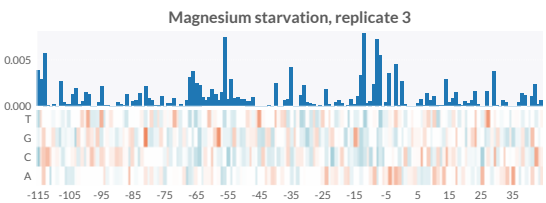

Heatshock, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

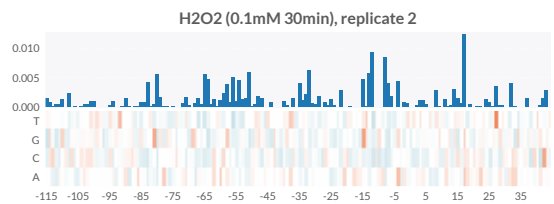

Nirtogen starvation, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

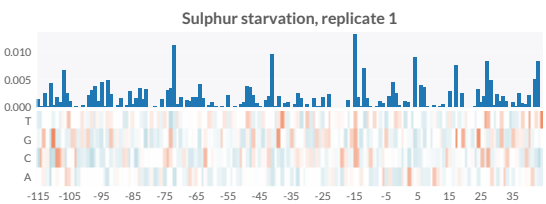

Heatshock, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

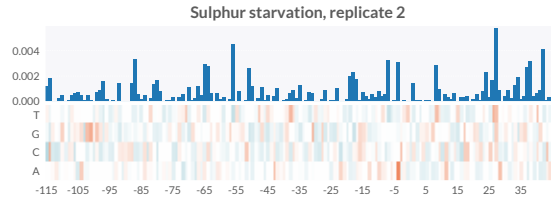

H2O2 (0.1mM 30min), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

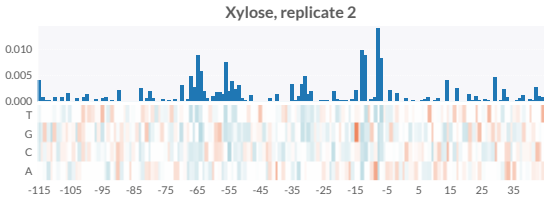

Magnesium starvation, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

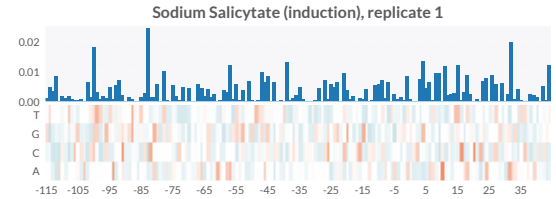

H2O2 (0.1mM 30min), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

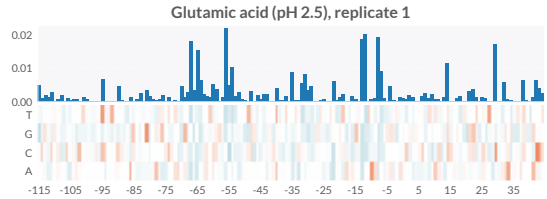

Sulphur starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

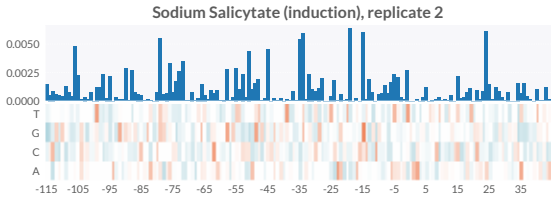
tnaCp

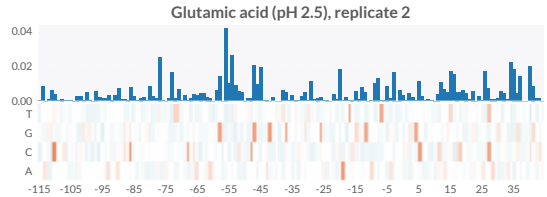

Sulphur starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

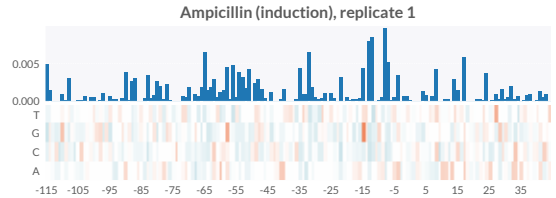

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

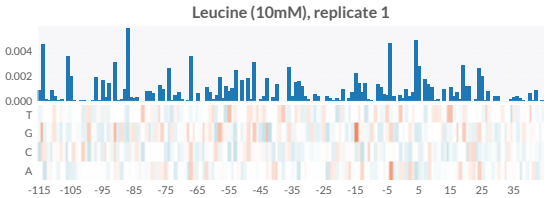

Sodium Salicytate (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

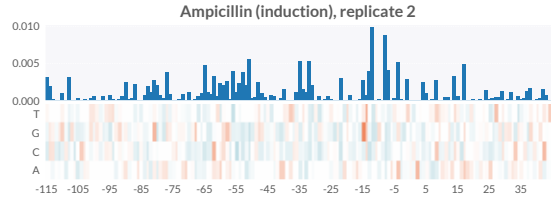

Glutamic acid (pH 2.5), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

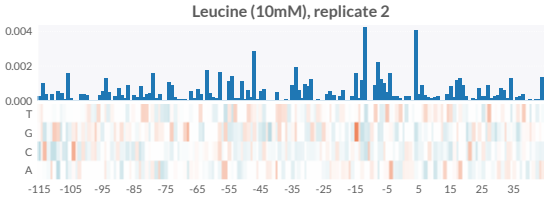

Sodium Salicytate (induction), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

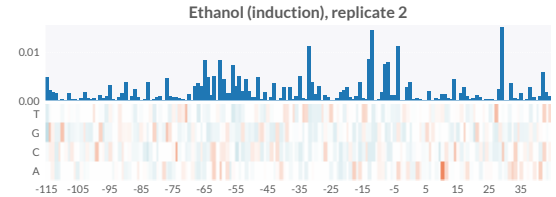

Glutamic acid (pH 2.5), replicate 2
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

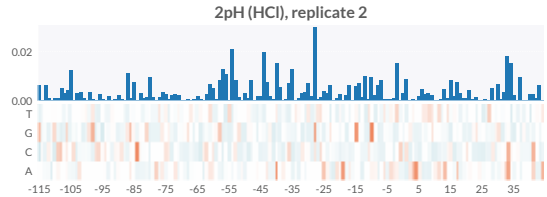

Ampicillin (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

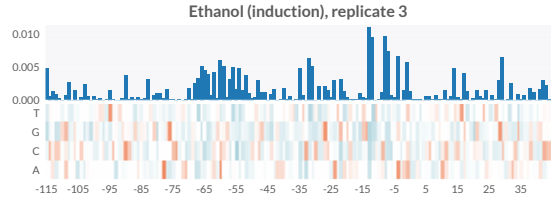

Leucine (10mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

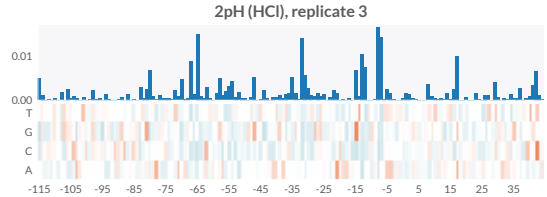

Ampicillin (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

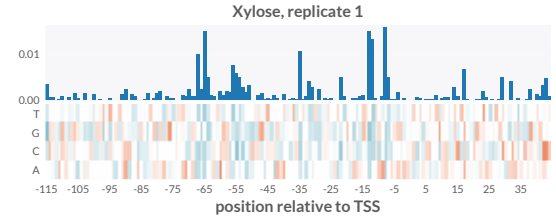

Leucine (10mM), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

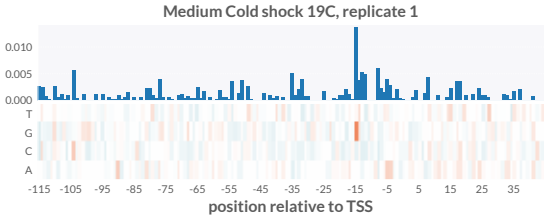

Ethanol (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

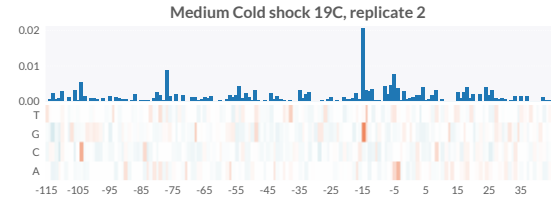

Ethanol (induction), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

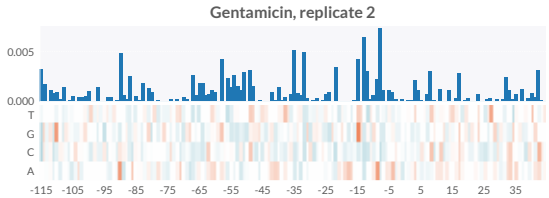

2pH (HCl), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

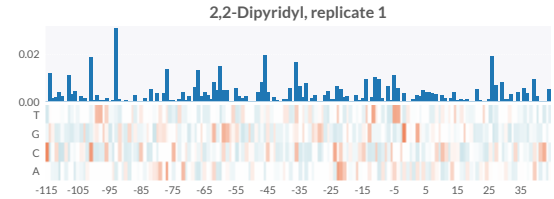

Xylose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

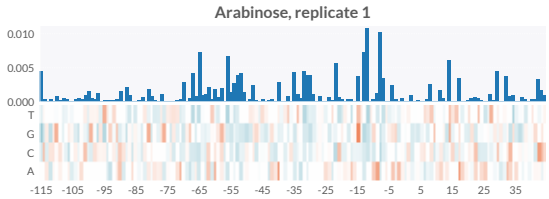

Medium Cold shock 19C, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

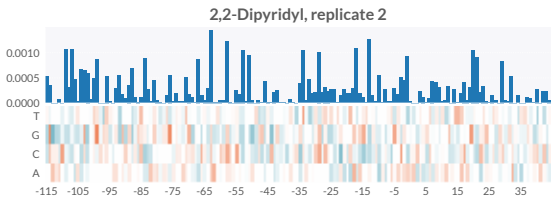
tnaCp

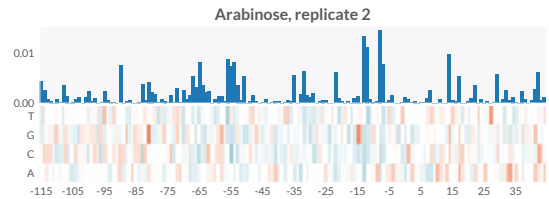

Medium Cold shock 19C, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

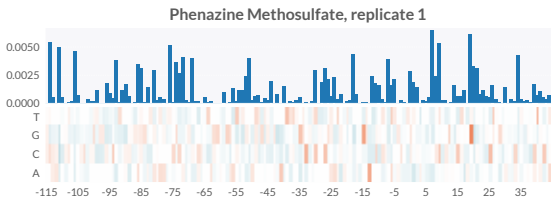

Gentamicin, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

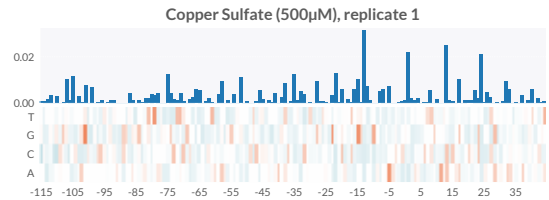

2,2-Dipyridyl, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

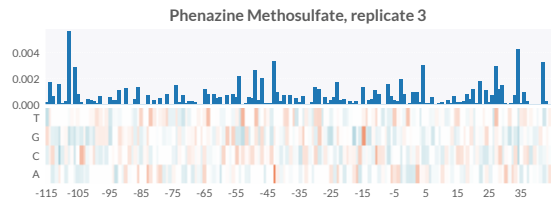

Arabinose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

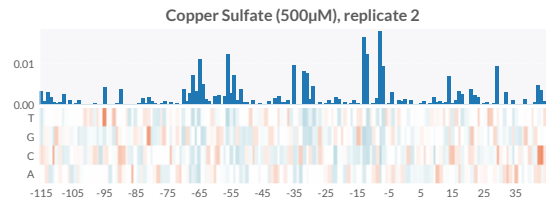

2,2-Dipyridyl, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

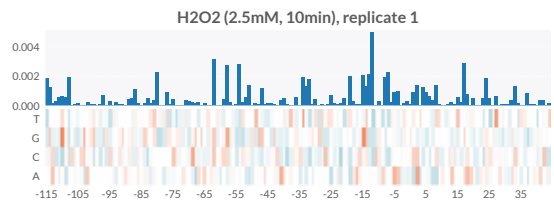

Arabinose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

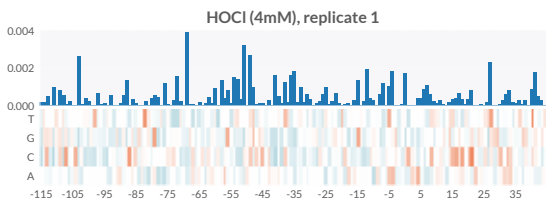

Phenazine Methosulfate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

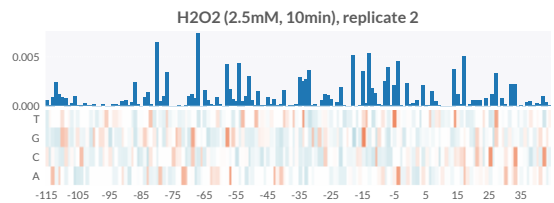

Copper Sulfate (500µM), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

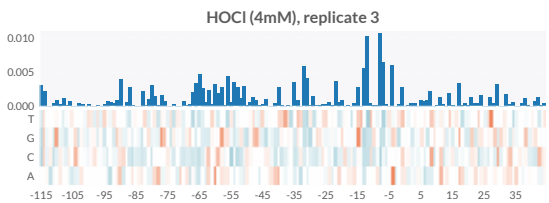

Phenazine Methosulfate, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

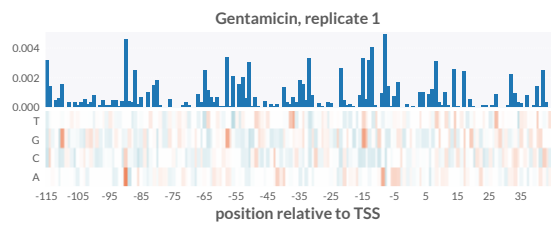

Copper Sulfate (500µM), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

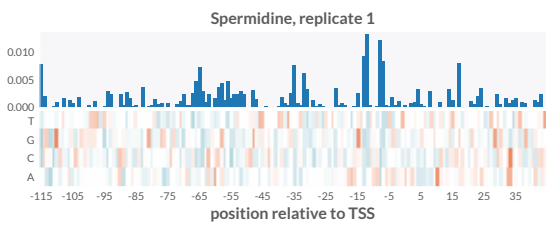

H2O2 (2.5mM, 10min), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

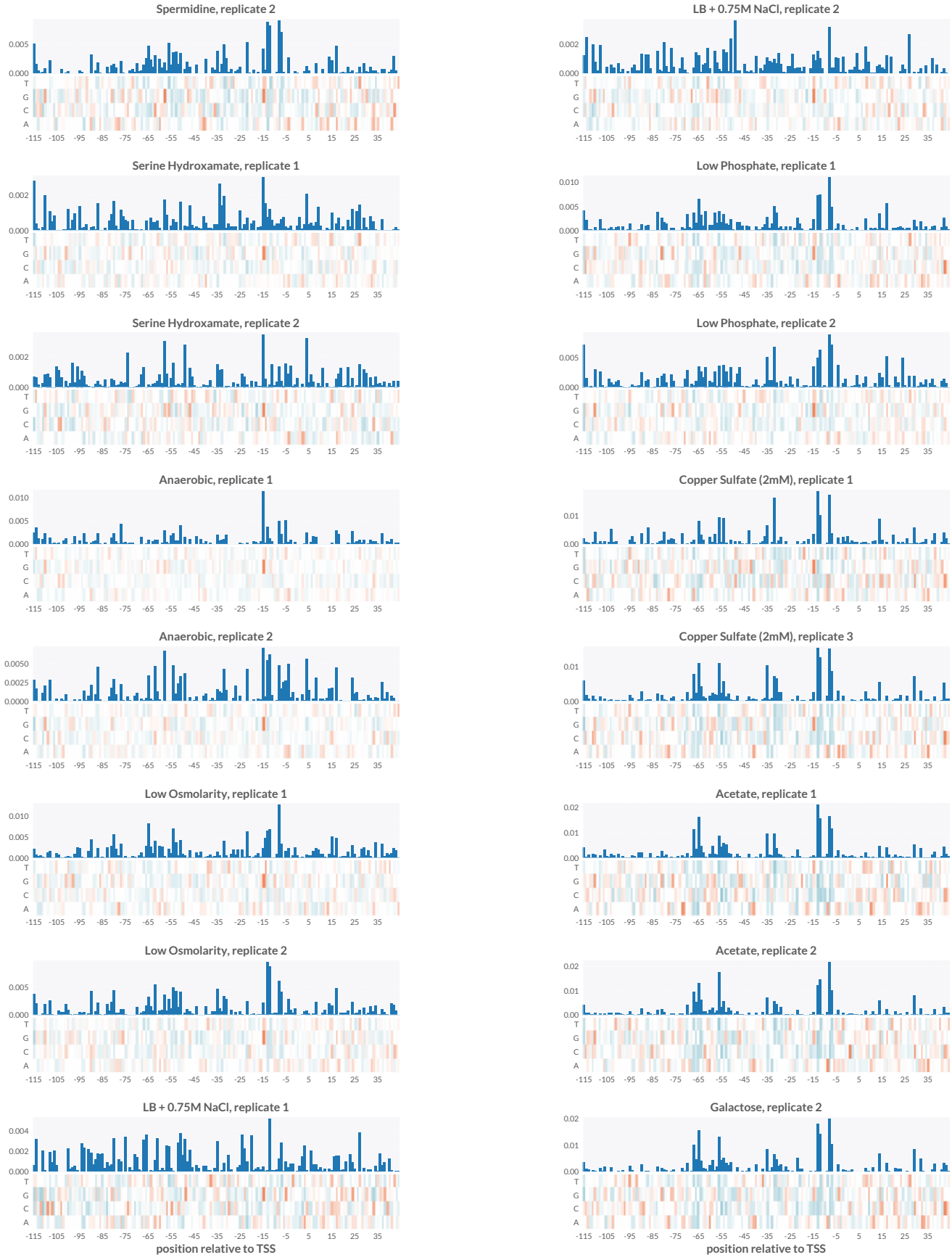

H2O2 (2.5mM, 10min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

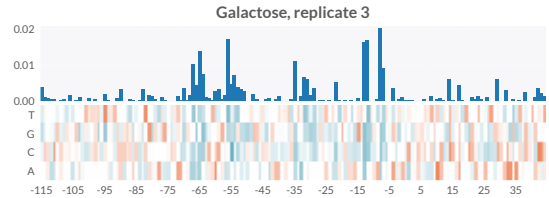

Gentamicin, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

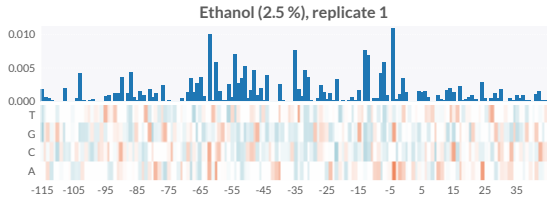

Spermidine, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

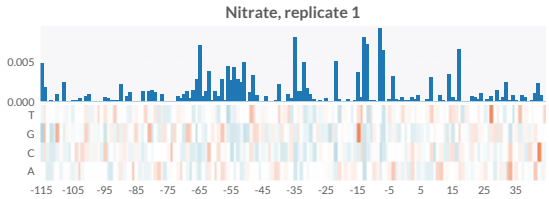
tnaCp

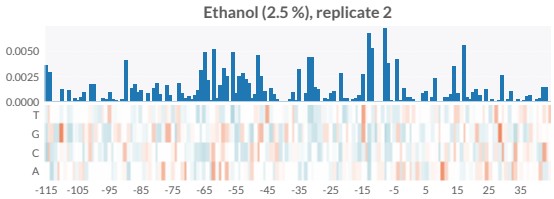

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

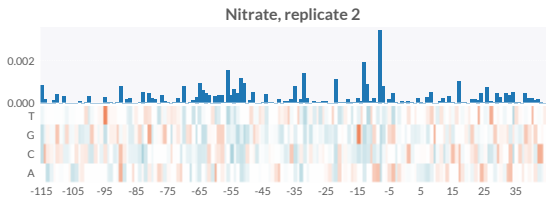
tnaCp

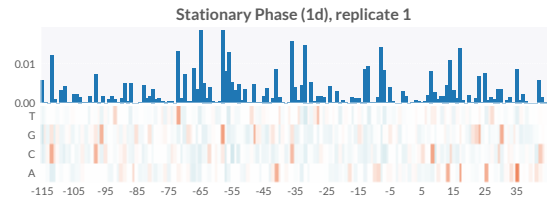

Galactose, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

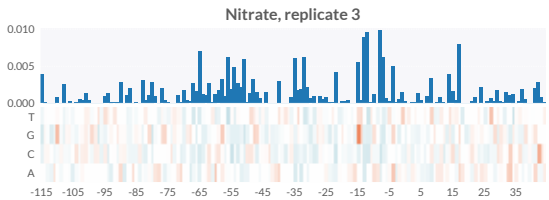

Ethanol (2.5 %), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

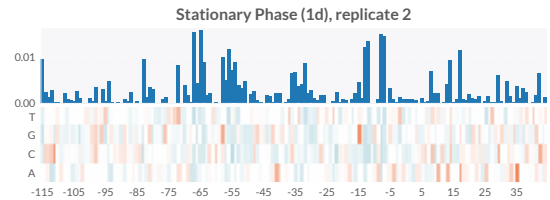

Nitrate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

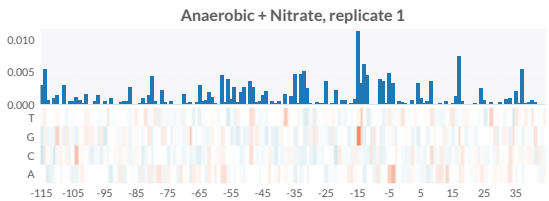

Ethanol (2.5 %), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

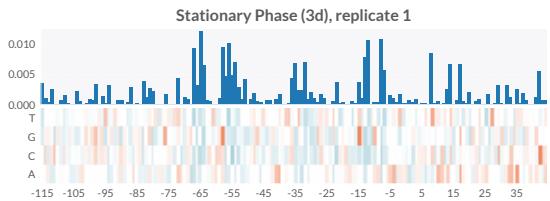

Nitrate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

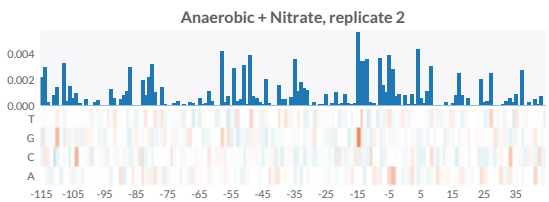

Stationary Phase (1d), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

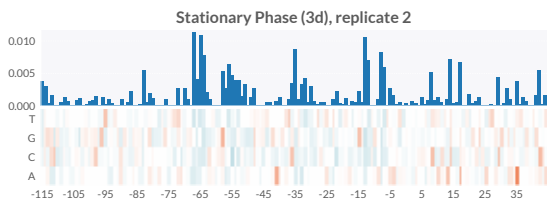

Nitrate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

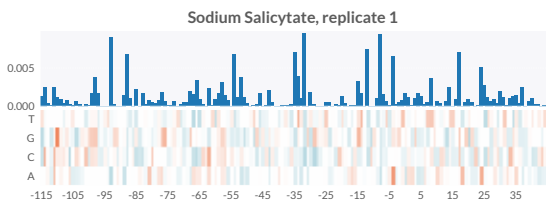

Stationary Phase (1d), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

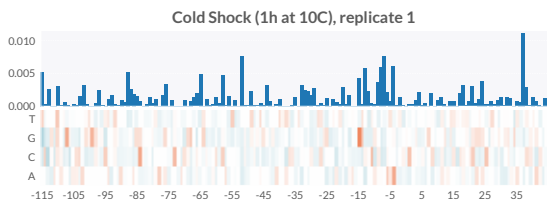

Anaerobic + Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

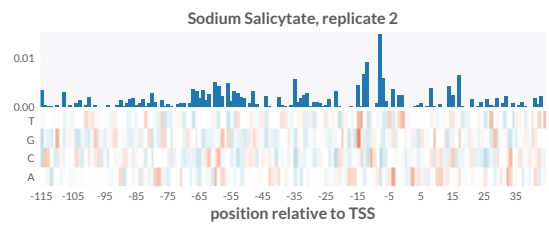

Stationary Phase (3d), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

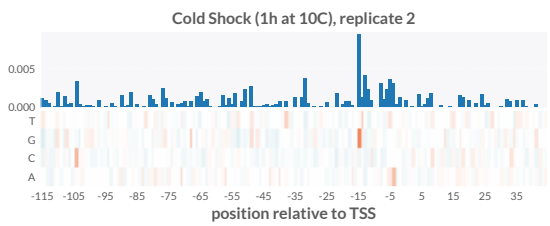

Anaerobic + Nitrate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Sodium Salicytate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

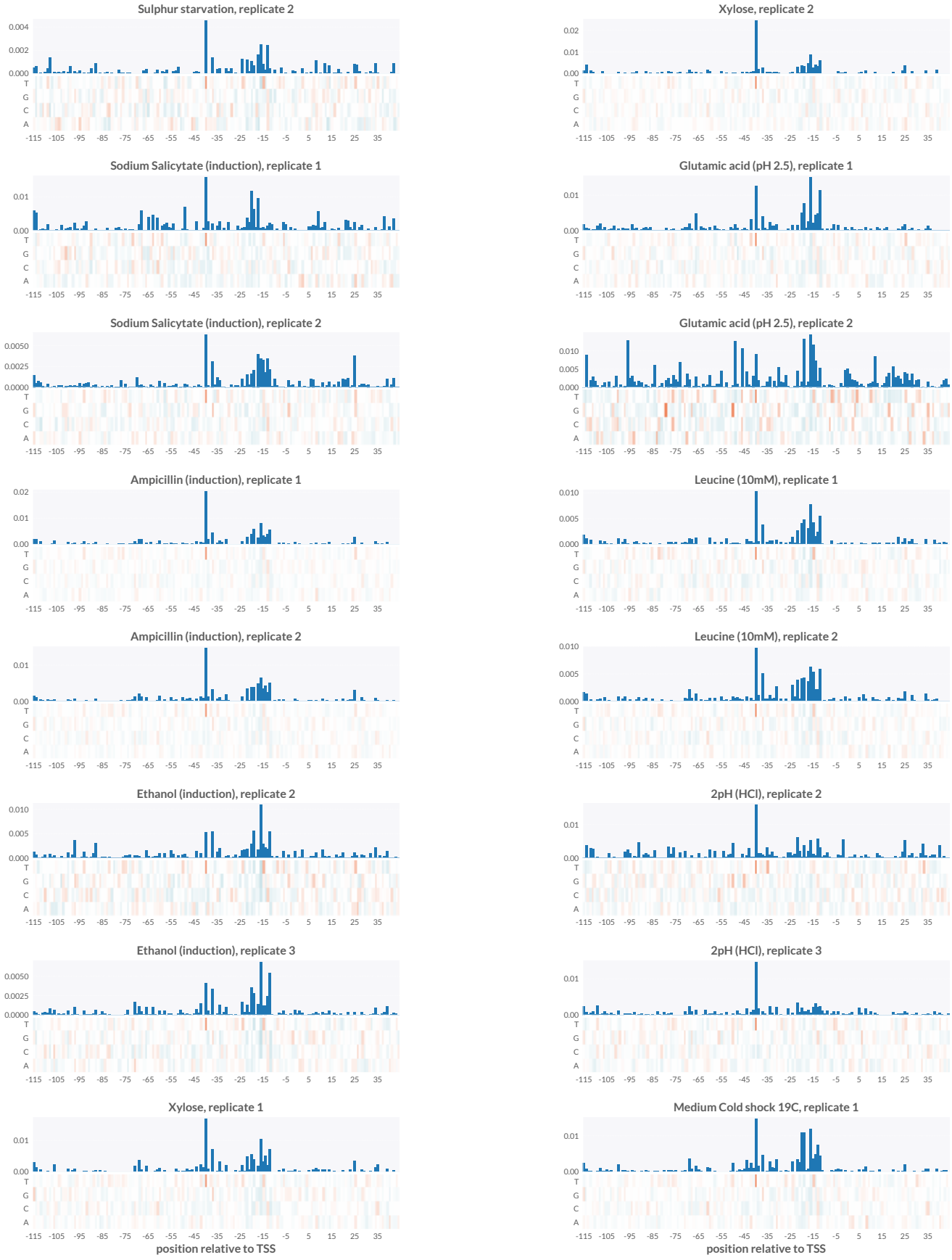

Sodium Salicytate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

tolCp1


Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

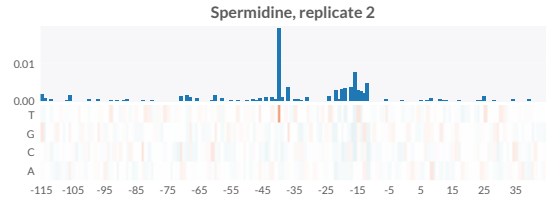
tolCp1

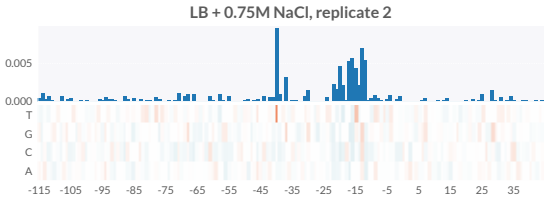

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

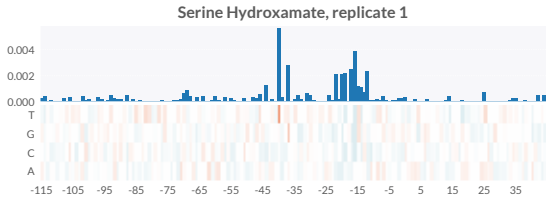
tolCp1

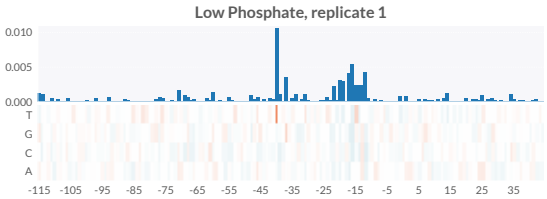

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

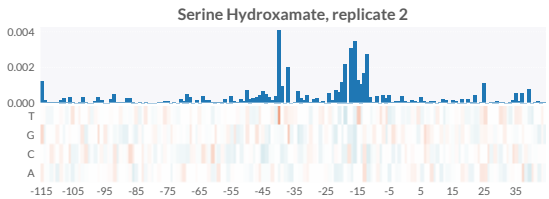
tolCp1

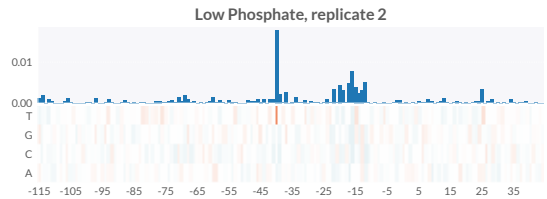

Spermidine, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

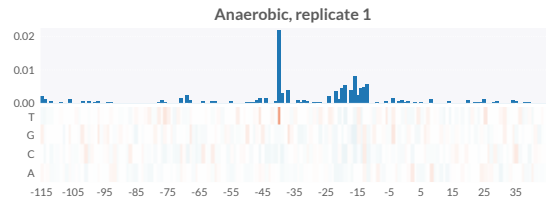

LB + 0.75M NaCl, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

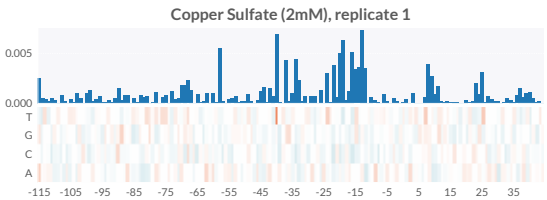

Serine Hydroxamate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

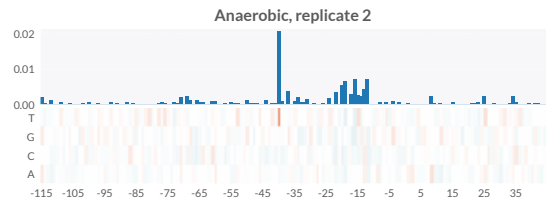

Low Phosphate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

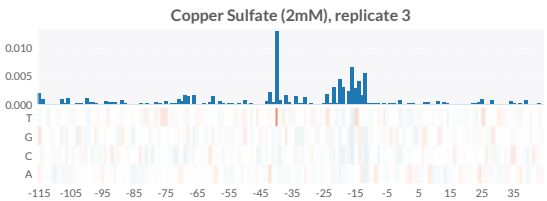

Serine Hydroxamate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

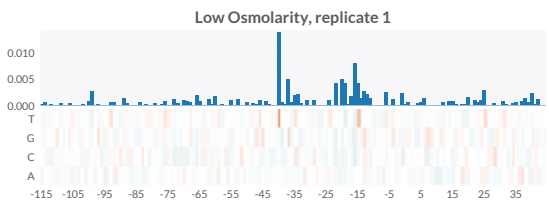

Low Phosphate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

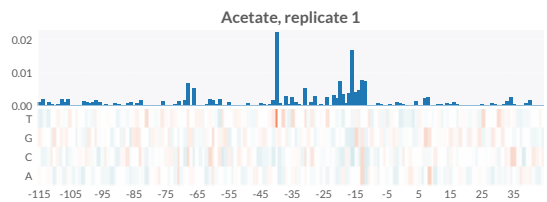

Anaerobic, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

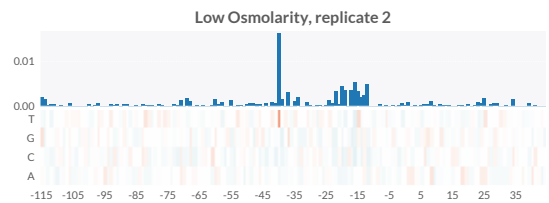

Copper Sulfate (2mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

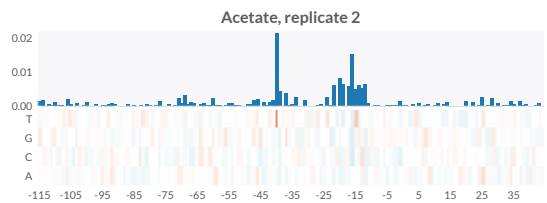

Anaerobic, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

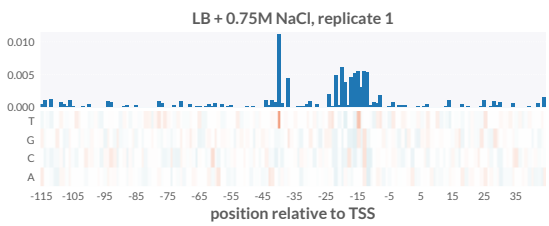

Copper Sulfate (2mM), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

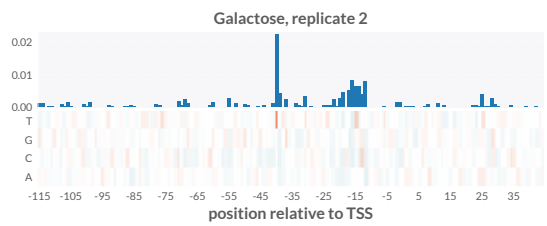

Low Osmolarity, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

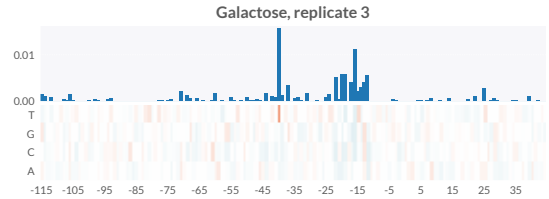

Low Osmolarity, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

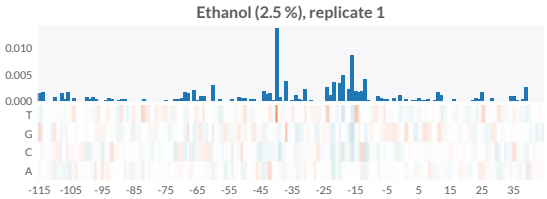

Acetate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

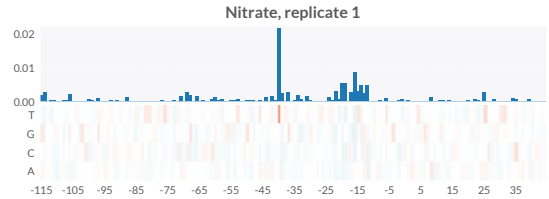

LB + 0.75M NaCl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

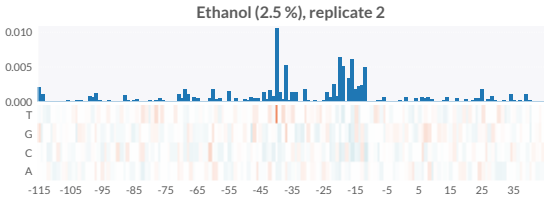

Galactose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

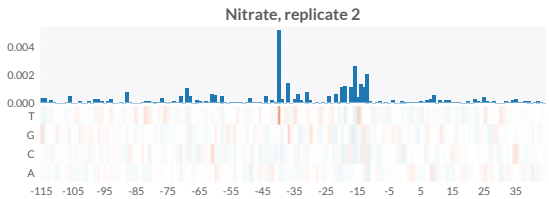
tolCp1

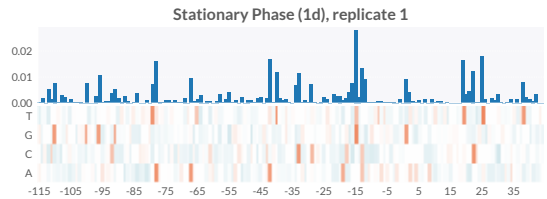

Galactose, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

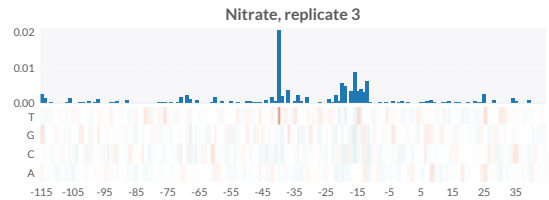

Ethanol (2.5 %), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

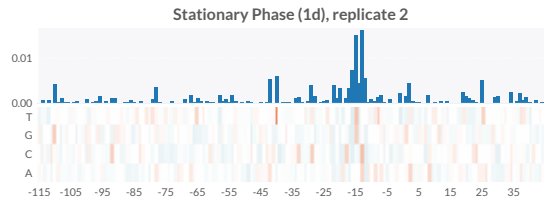

Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

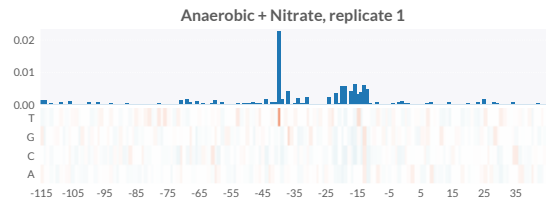

Ethanol (2.5 %), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

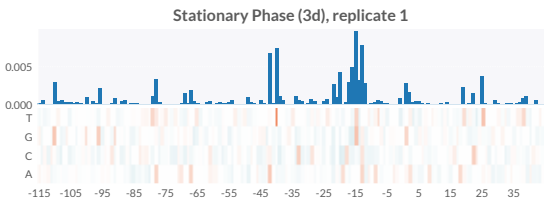

Nitrate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

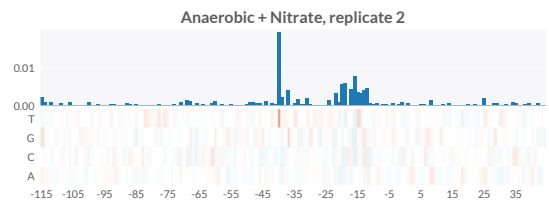

Stationary Phase (1d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

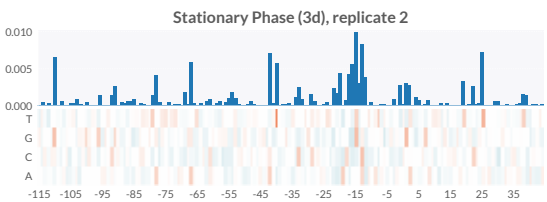

Nitrate, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

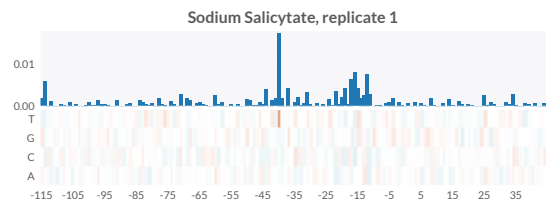

Stationary Phase (1d), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

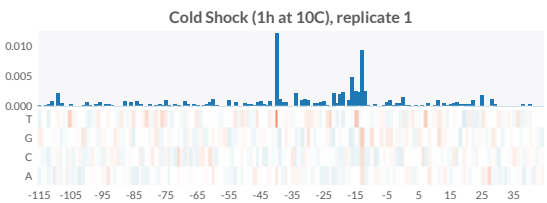

Anaerobic + Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

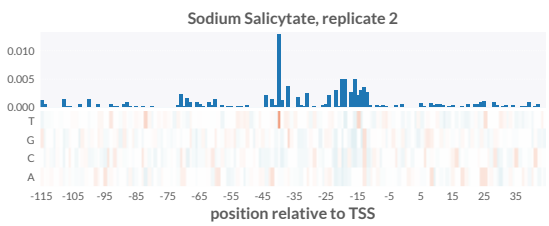

Stationary Phase (3d), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

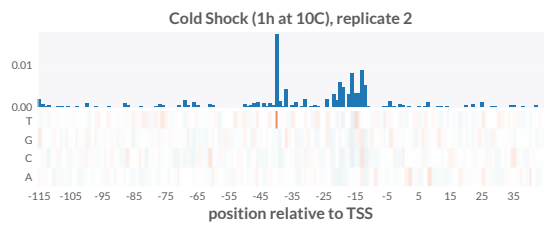

Anaerobic + Nitrate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

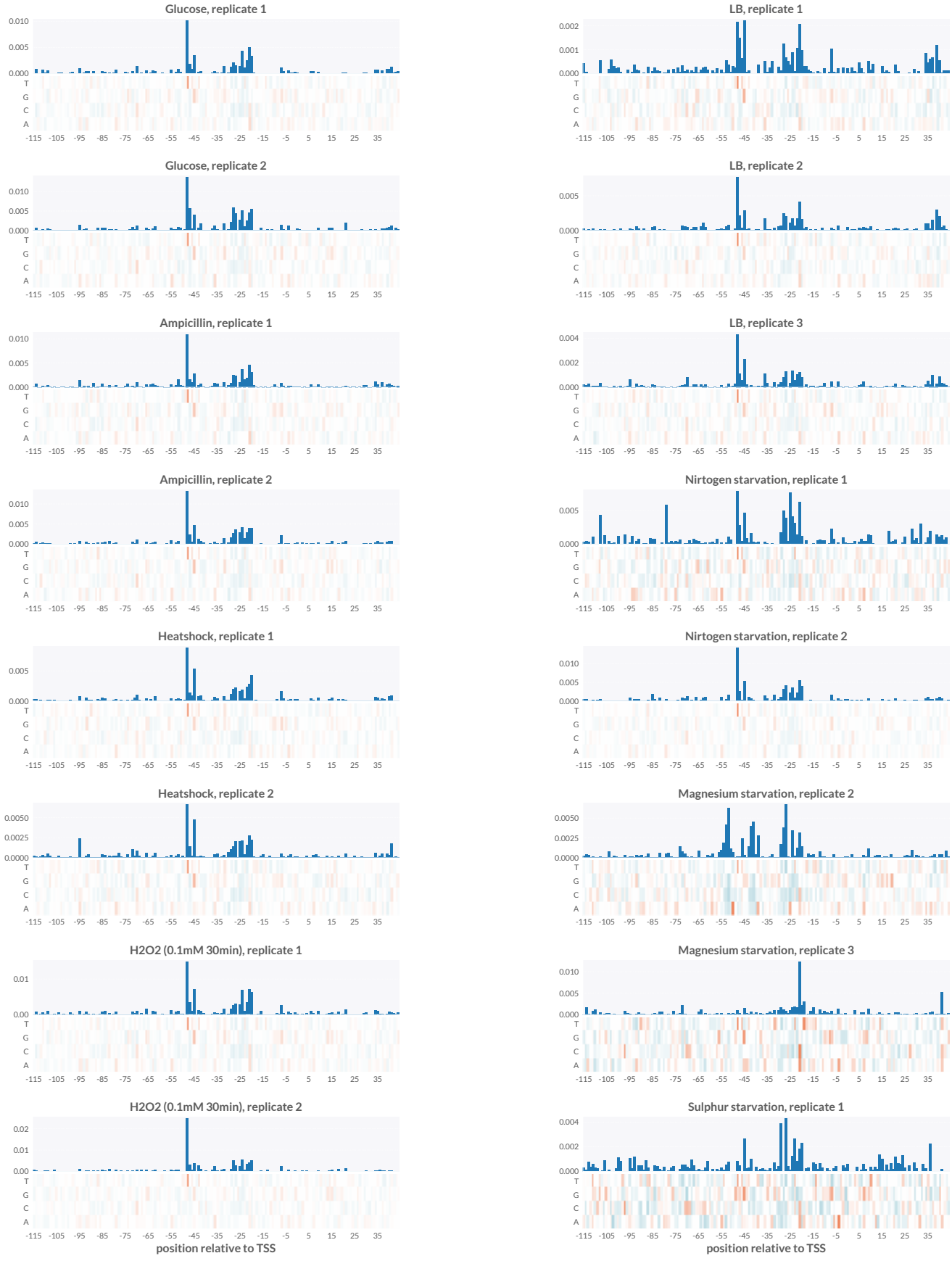

Sodium Salicytate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

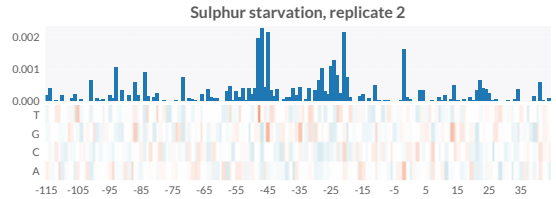

Sodium Salicytate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

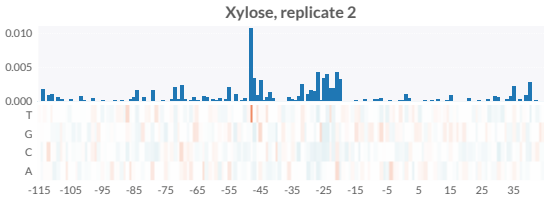

Cold Shock (1h at 10C), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

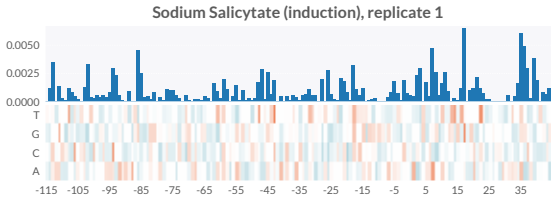
tolCp2

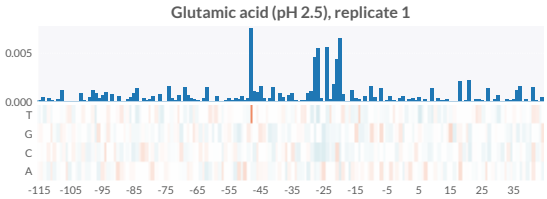

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

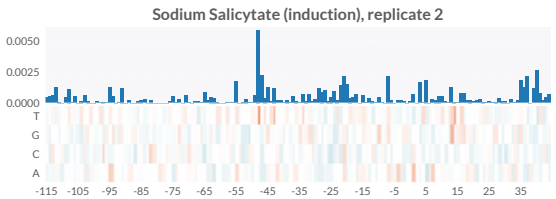
tolCp2

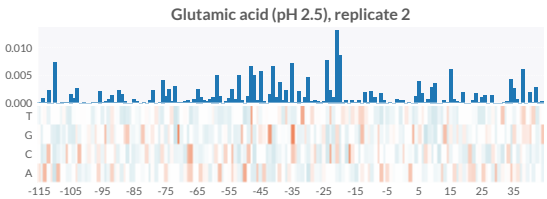

Sulphur starvation, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

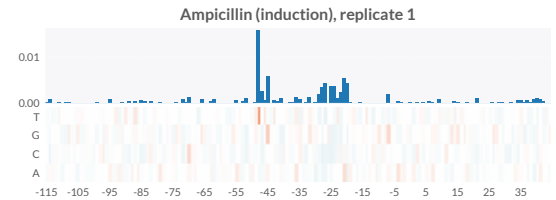

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

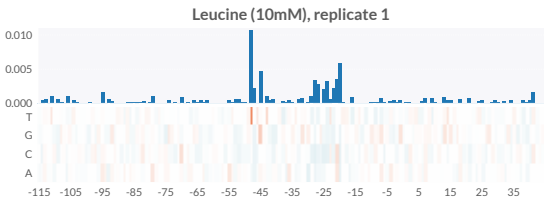

Sodium Salicytate (induction), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

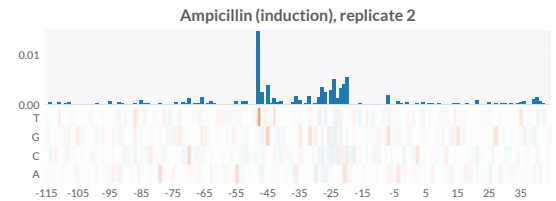

Glutamic acid (pH 2.5), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

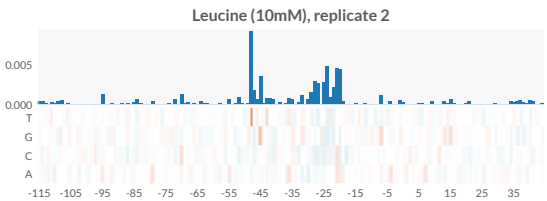

Sodium Salicytate (induction), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

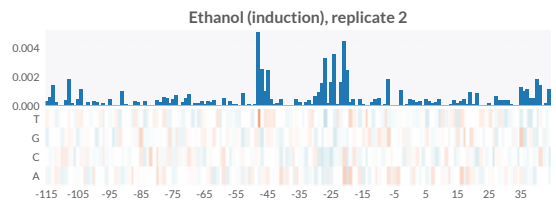

Glutamic acid (pH 2.5), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

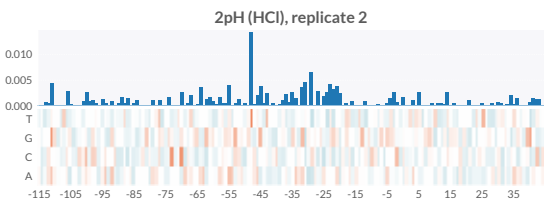

Ampicillin (induction), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

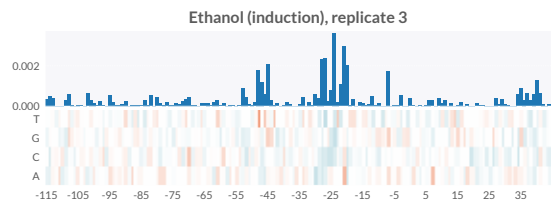

Leucine (10mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

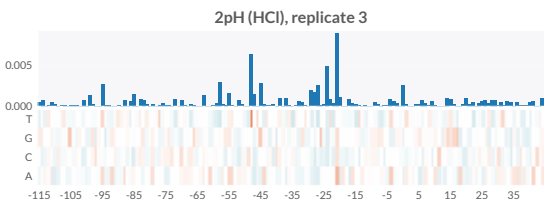

Ampicillin (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

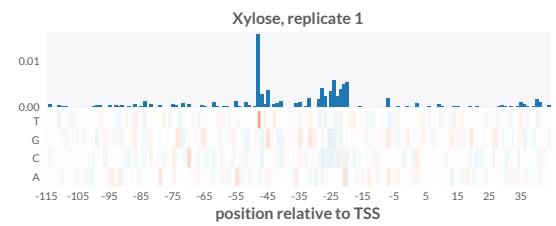

Leucine (10mM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

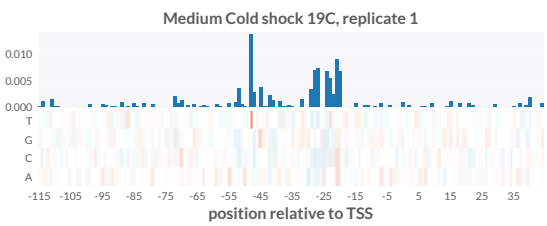

Ethanol (induction), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

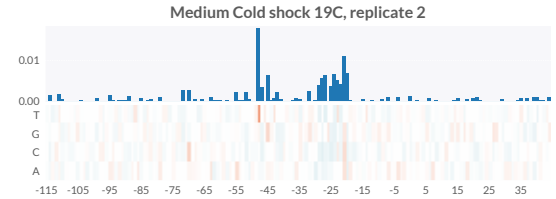

Ethanol (induction), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

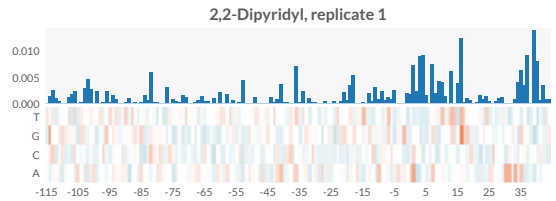

2pH (HCl), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

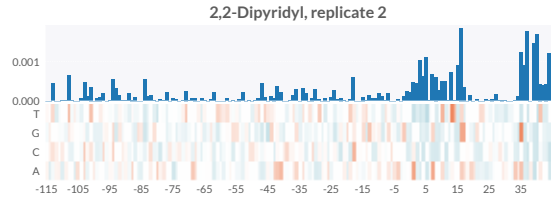

Xylose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

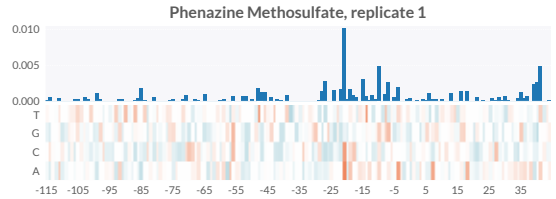

Medium Cold shock 19C, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

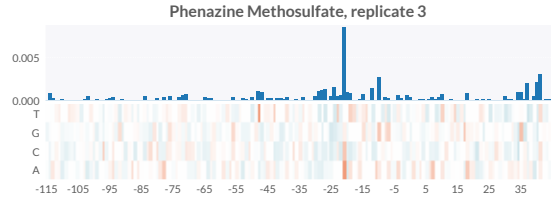
tolCp2

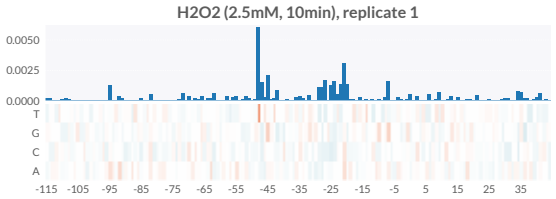

Medium Cold shock 19C, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

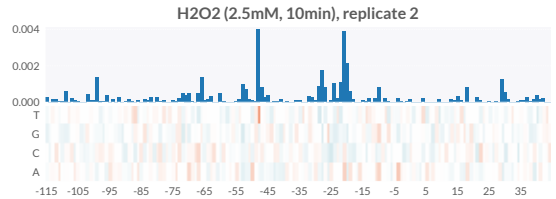

2,2-Dipyridyl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

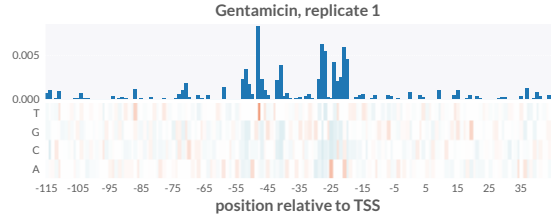

2,2-Dipyridyl, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

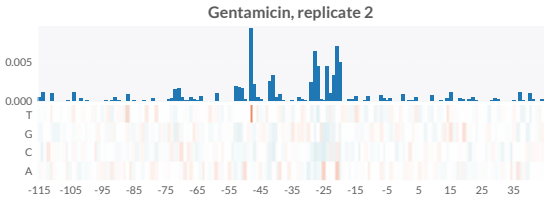

Phenazine Methosulfate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

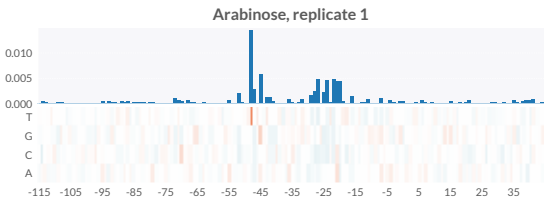

Phenazine Methosulfate, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

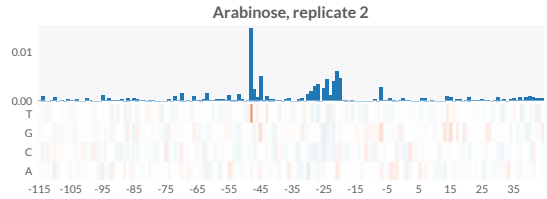

H2O2 (2.5mM, 10min), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

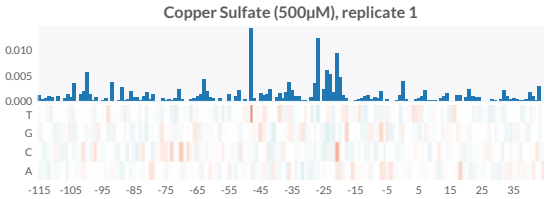

H2O2 (2.5mM, 10min), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

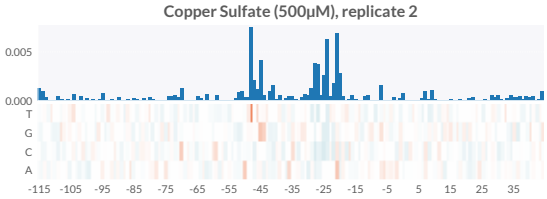

Gentamicin, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

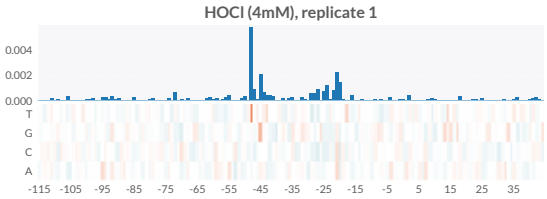

Gentamicin, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

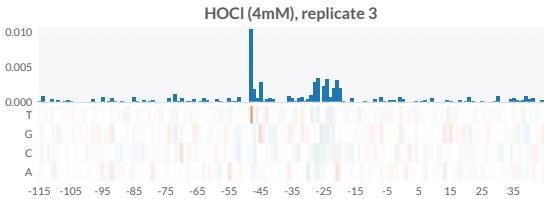

Arabinose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

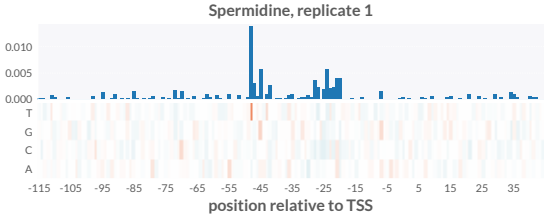

Arabinose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Copper Sulfate (500µM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

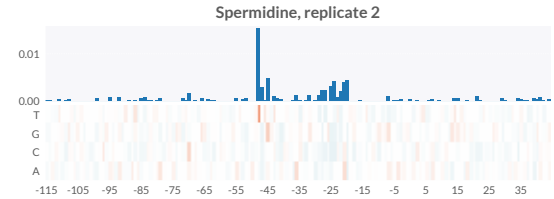

Copper Sulfate (500µM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

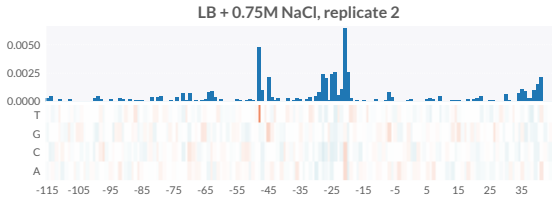

HOCl (4mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

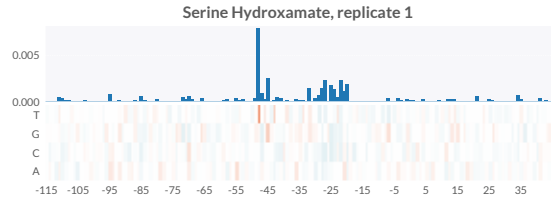

HOCl (4mM), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

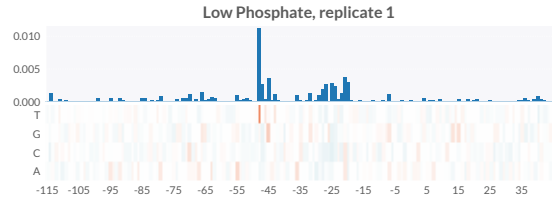

Spermidine, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

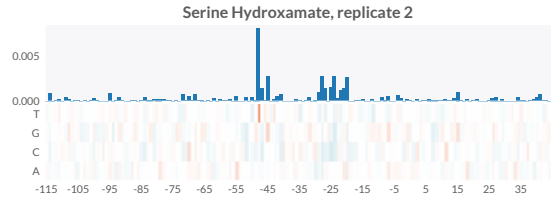
tolCp2

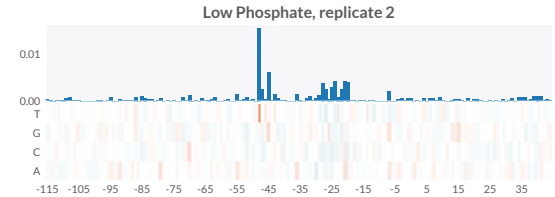

Spermidine, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

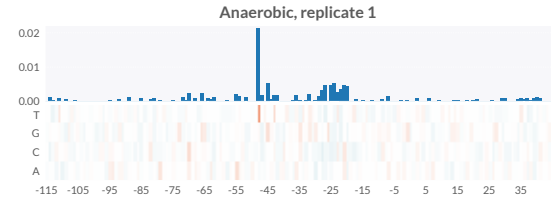

LB + 0.75M NaCl, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

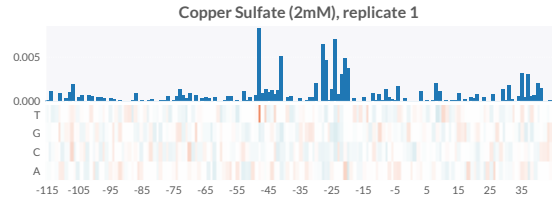

Serine Hydroxamate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

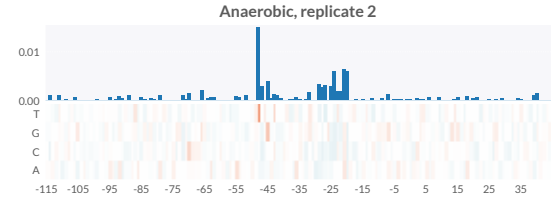

Low Phosphate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

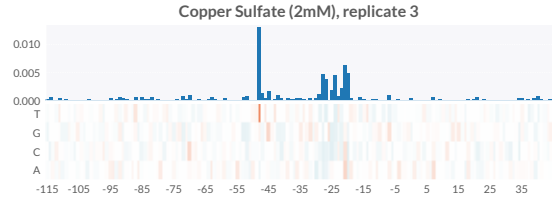

Serine Hydroxamate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

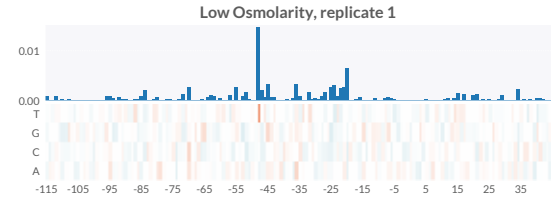

Low Phosphate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

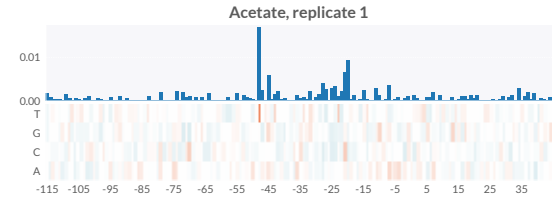

Anaerobic, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

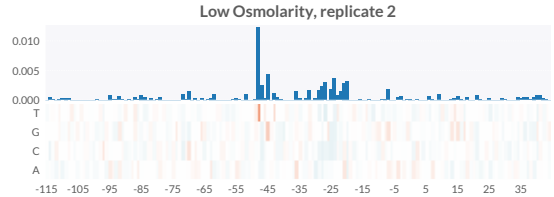

Copper Sulfate (2mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

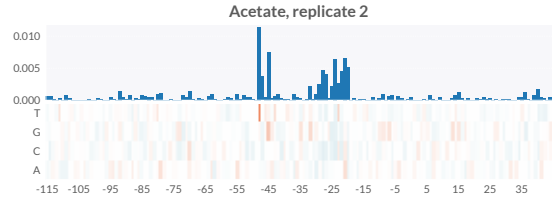

Anaerobic, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

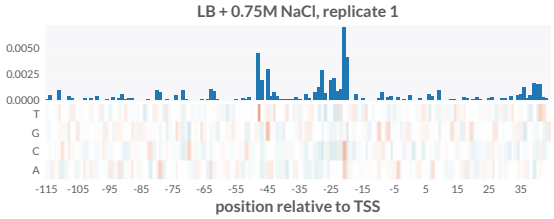

Copper Sulfate (2mM), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

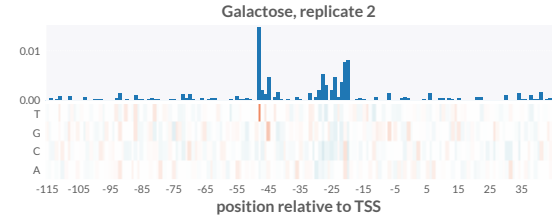

Low Osmolarity, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

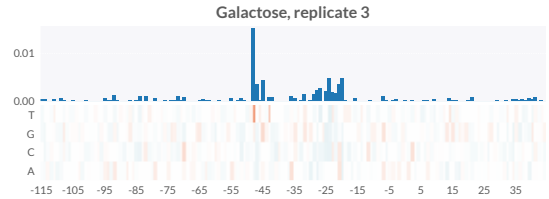

Low Osmolarity, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

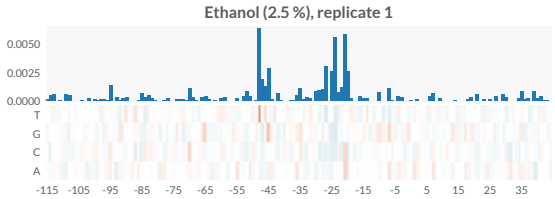

Acetate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

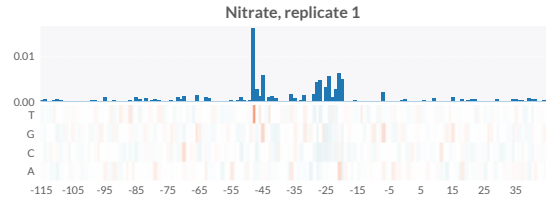

LB + 0.75M NaCl, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

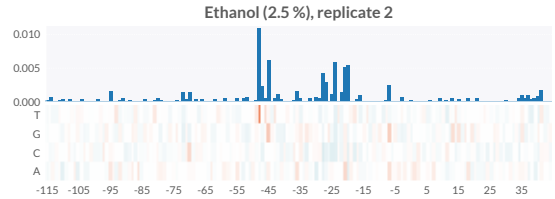

Galactose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

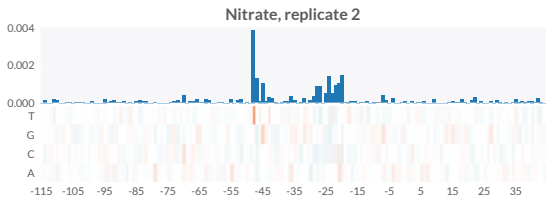
tolCp2

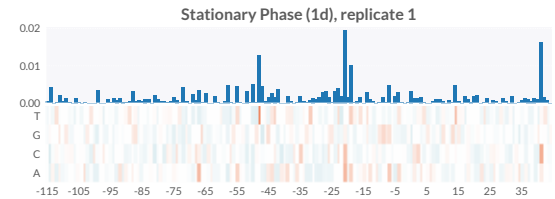

Galactose, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

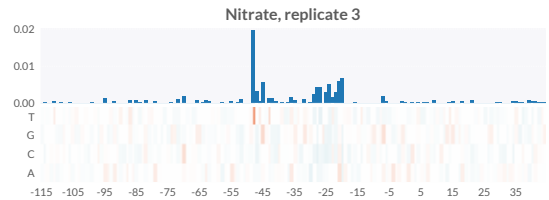

Ethanol (2.5 %), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

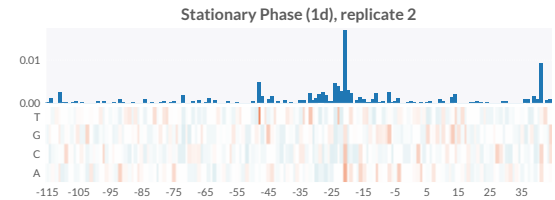

Nitrate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

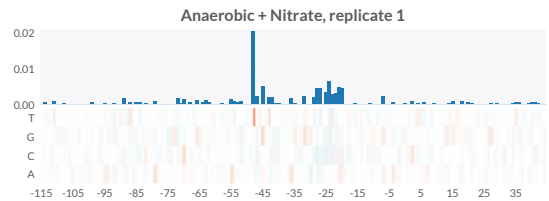

Ethanol (2.5 %), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

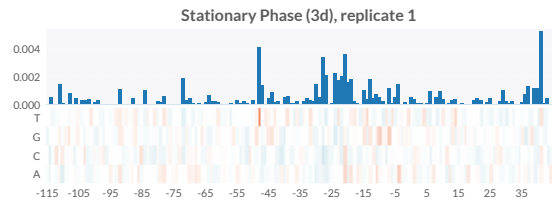

Nitrate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

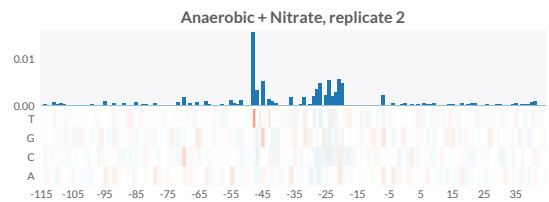

Stationary Phase (1d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

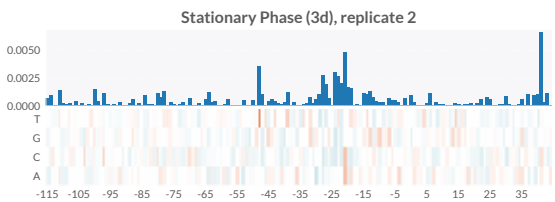

Nitrate, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

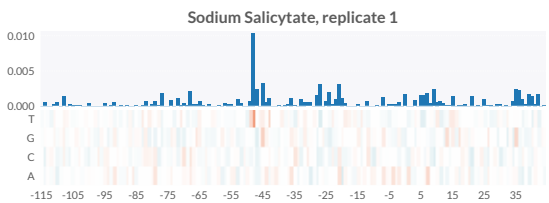

Stationary Phase (1d), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

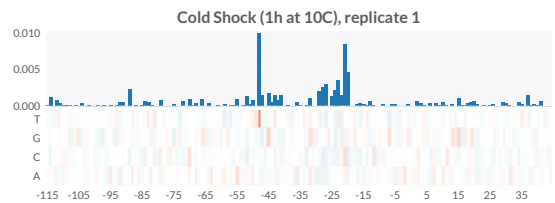

Anaerobic + Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

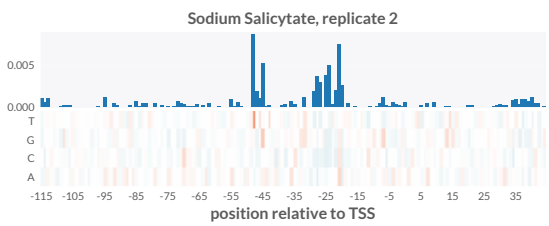

Stationary Phase (3d), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

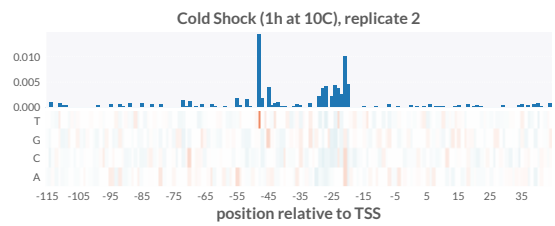

Anaerobic + Nitrate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Sodium Salicytate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

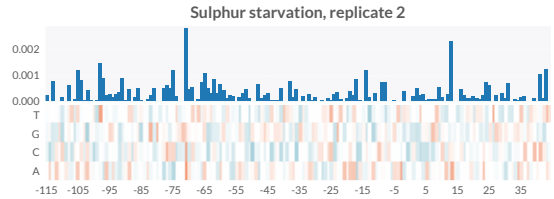

Sodium Salicytate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

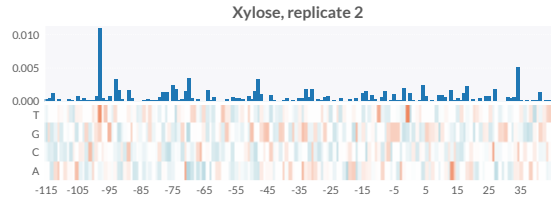

Cold Shock (1h at 10C), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

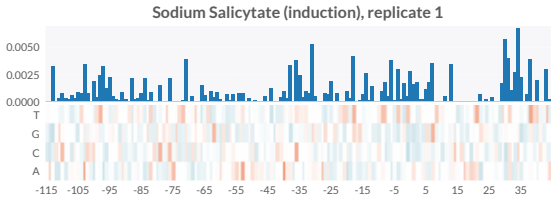
tolCp3

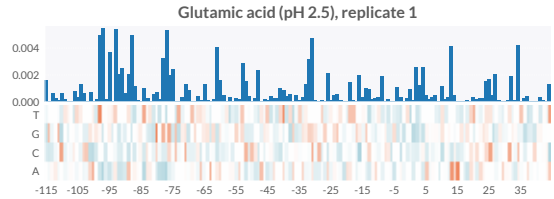

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

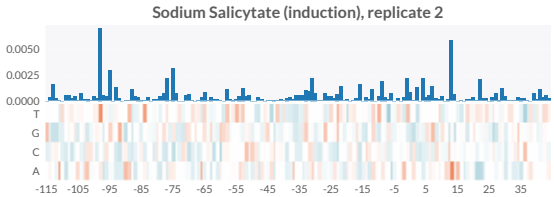
tolCp3

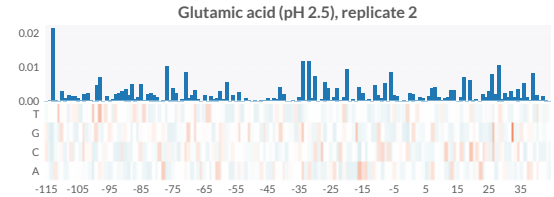

Sulphur starvation, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

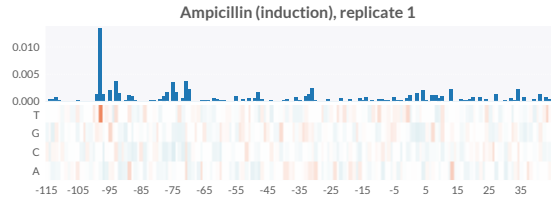

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

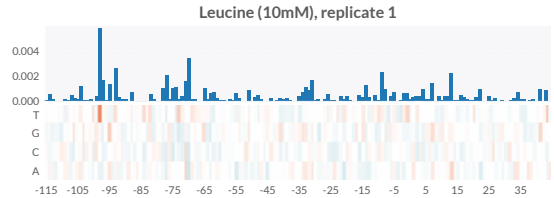

Sodium Salicytate (induction), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

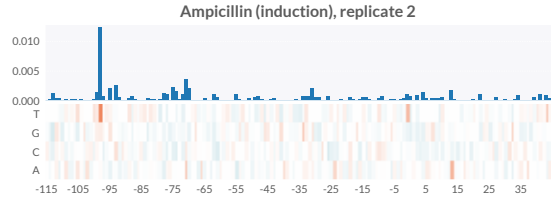

Glutamic acid (pH 2.5), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

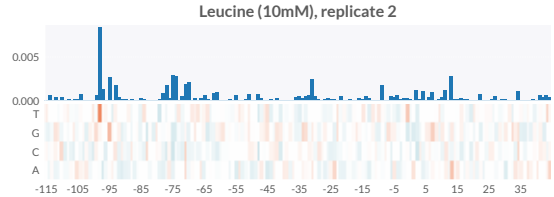

Sodium Salicytate (induction), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

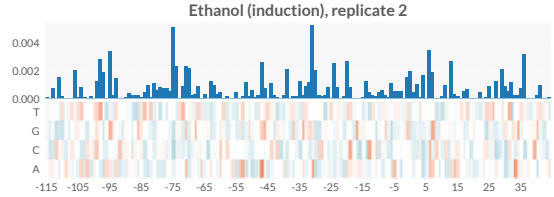

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

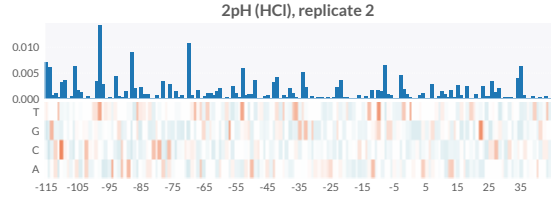

Ampicillin (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

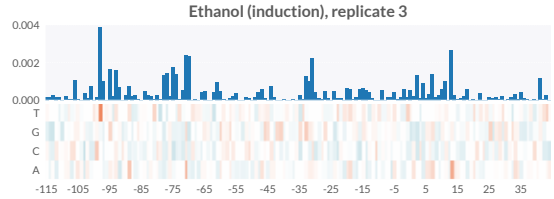

Leucine (10mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

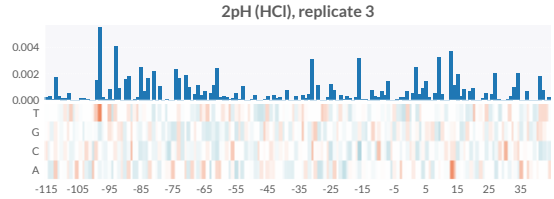

Ampicillin (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

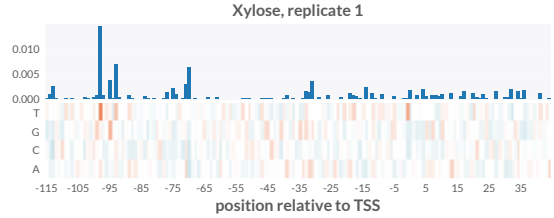

Leucine (10mM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

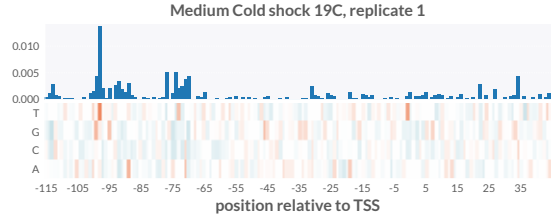

Ethanol (induction), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

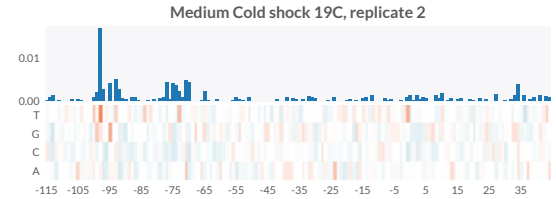

Ethanol (induction), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

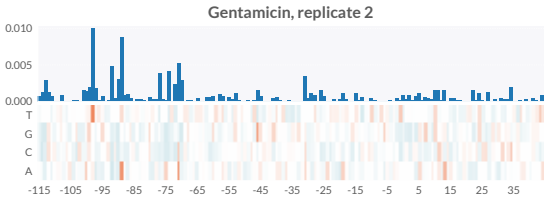

2pH (HCl), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

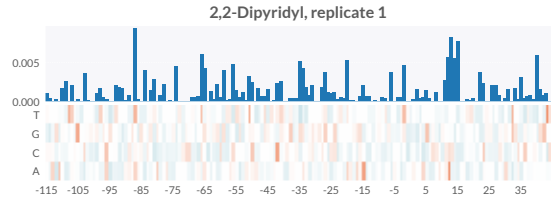

Xylose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

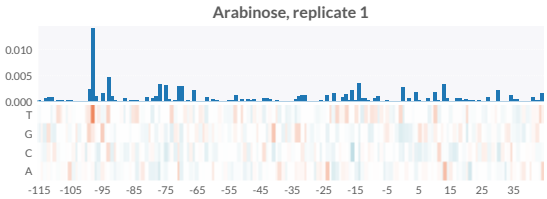

Medium Cold shock 19C, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

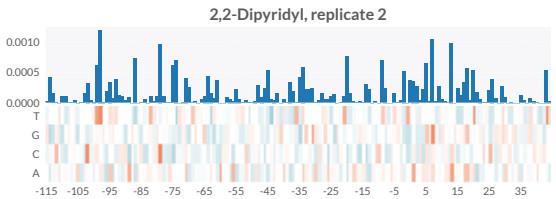
tolCp3

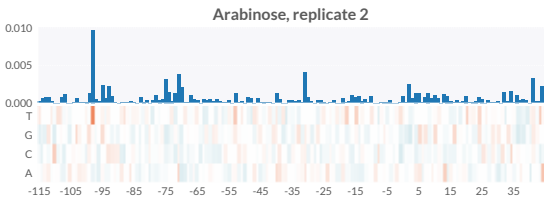

Medium Cold shock 19C, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

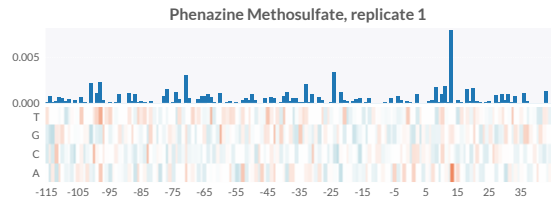

Gentamicin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

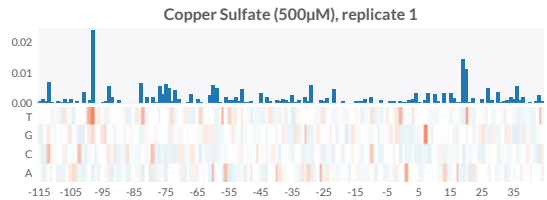

2,2-Dipyridyl, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

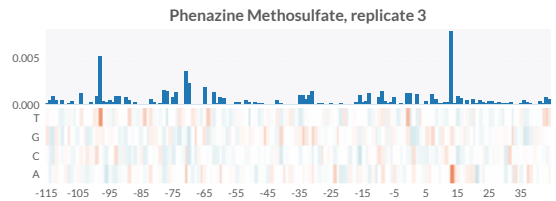

Arabinose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

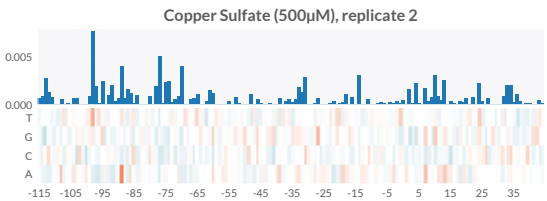

2,2-Dipyridyl, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

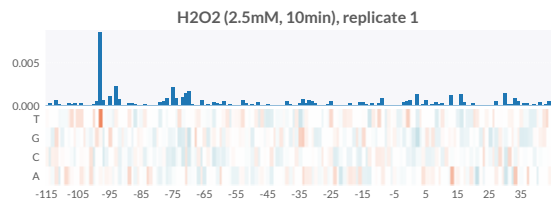

Arabinose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

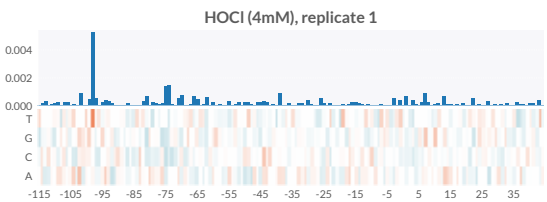

Phenazine Methosulfate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

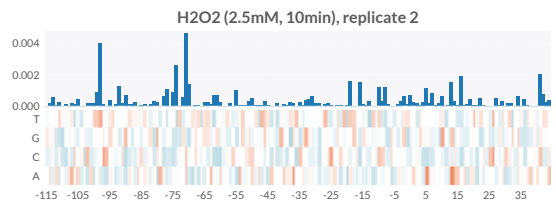

Copper Sulfate (500µM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

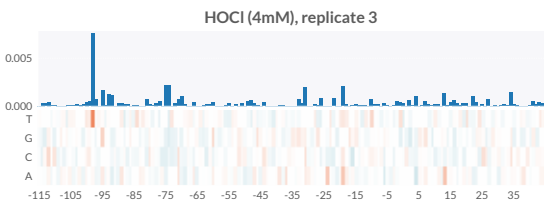

Phenazine Methosulfate, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

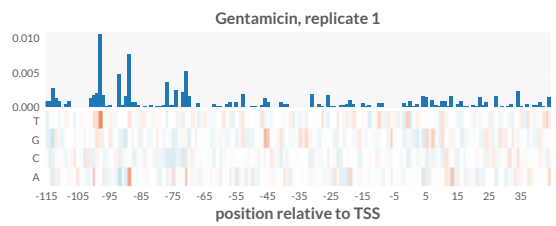

Copper Sulfate (500µM), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

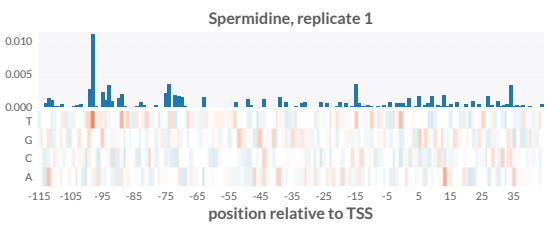

H2O2 (2.5mM, 10min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


H2O2 (2.5mM, 10min), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

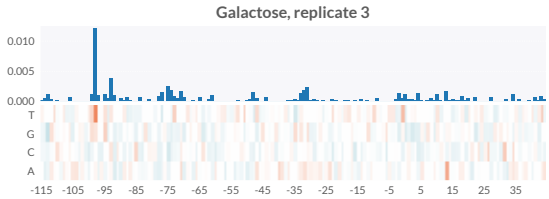

Gentamicin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

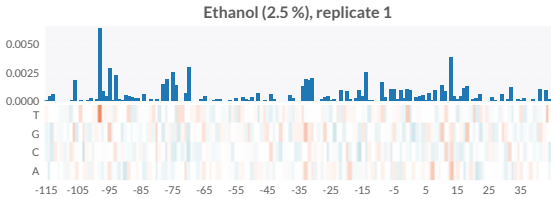

Spermidine, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

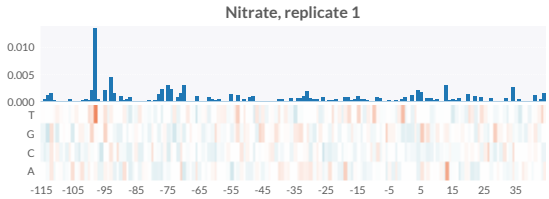
tolCp3

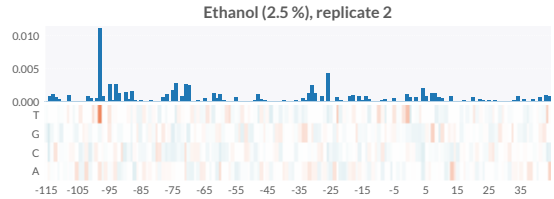

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

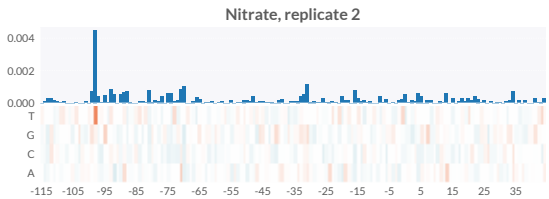
tolCp3

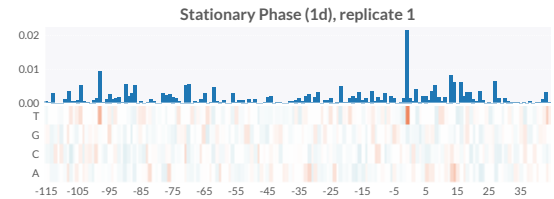

Galactose, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

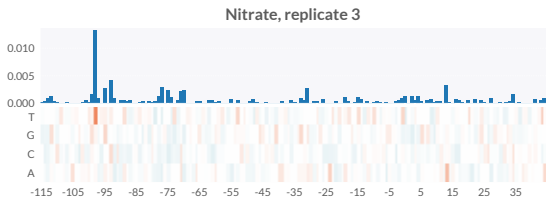

Ethanol (2.5 %), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

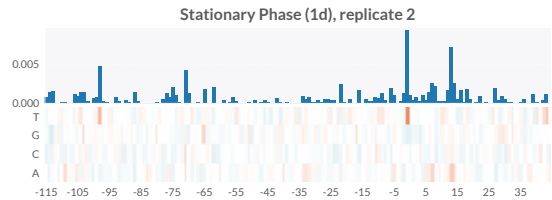

Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

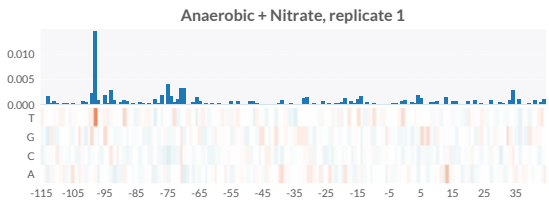

Ethanol (2.5 %), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

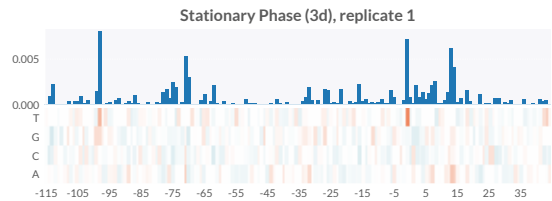

Nitrate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

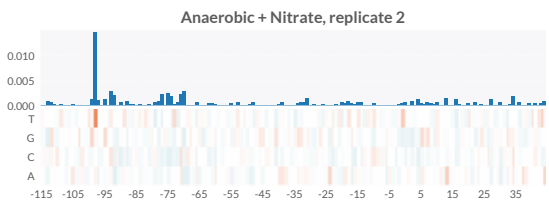

Stationary Phase (1d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

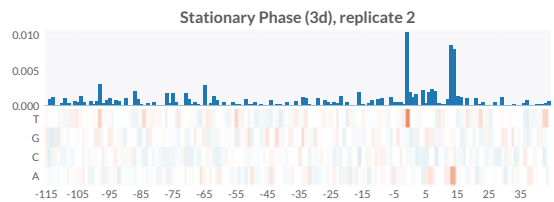

Nitrate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

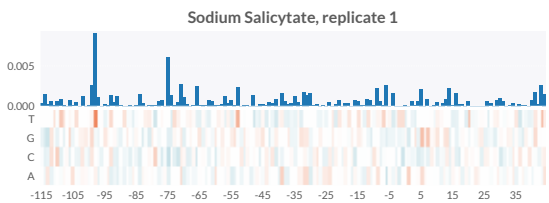

Stationary Phase (1d), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

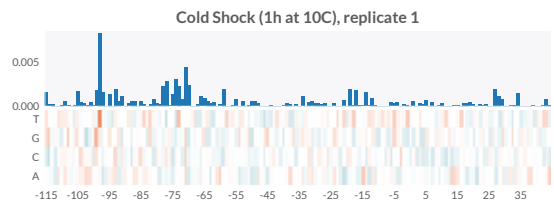

Anaerobic + Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

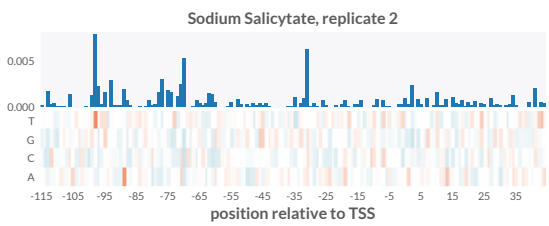

Stationary Phase (3d), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

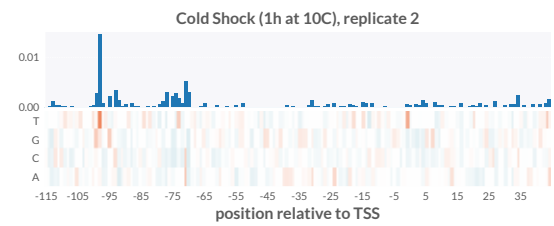

Anaerobic + Nitrate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Sodium Salicytate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

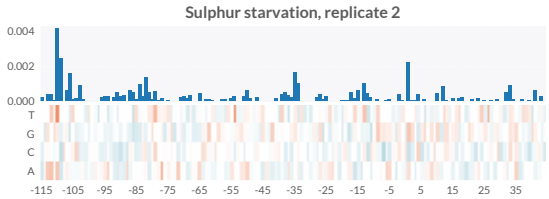

Sodium Salicytate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

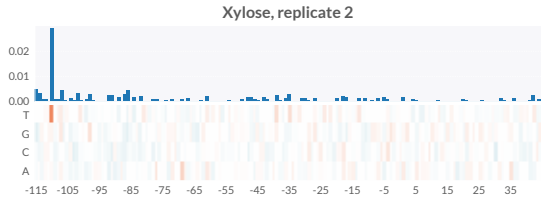

Cold Shock (1h at 10C), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

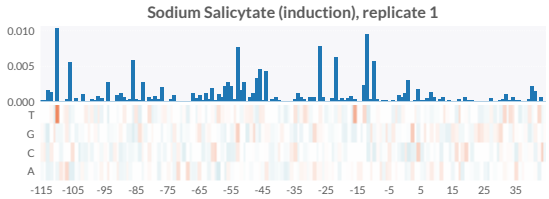
tolCp4

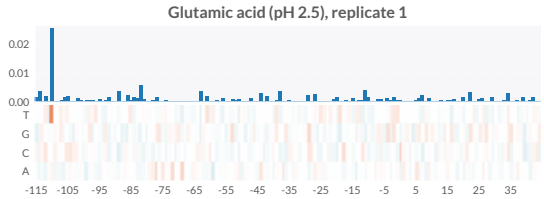

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

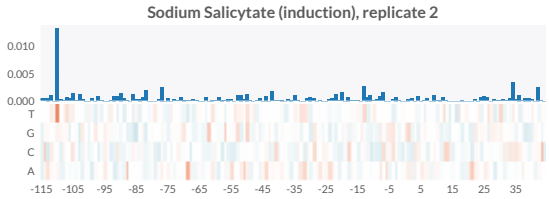
tolCp4

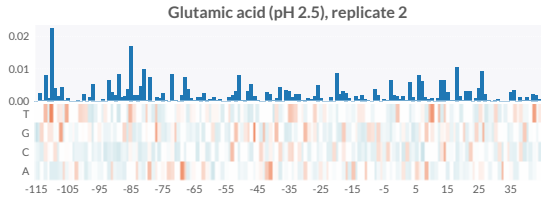

Sulphur starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

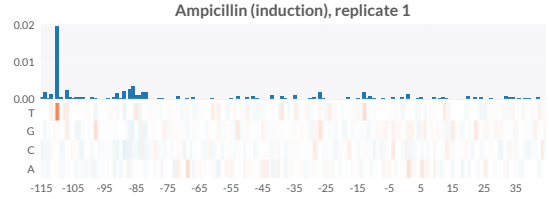

Xylose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

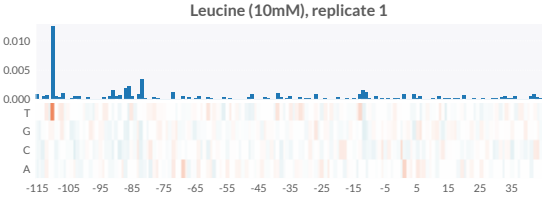

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

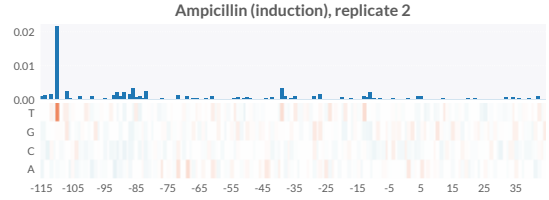

Glutamic acid (pH 2.5), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

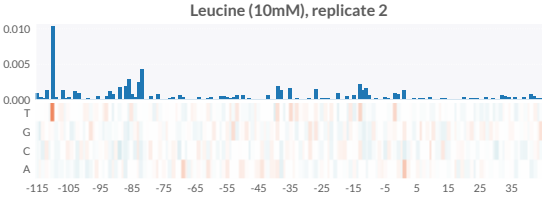

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

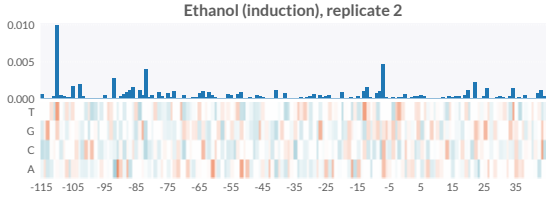

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

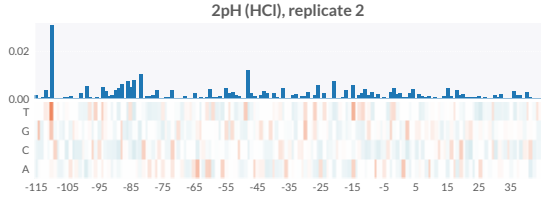

Ampicillin (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

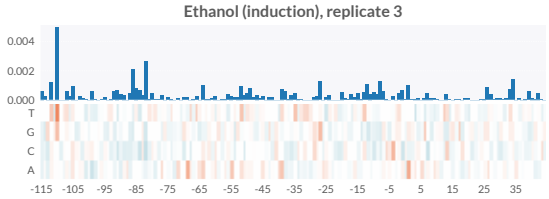

Leucine (10mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

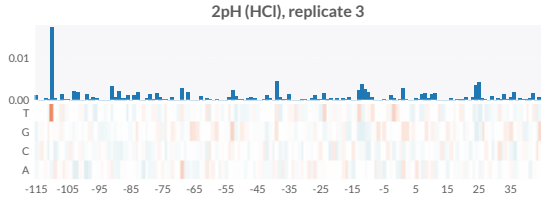

Ampicillin (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

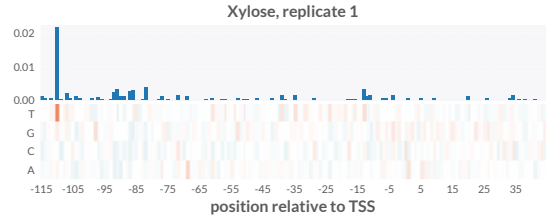

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

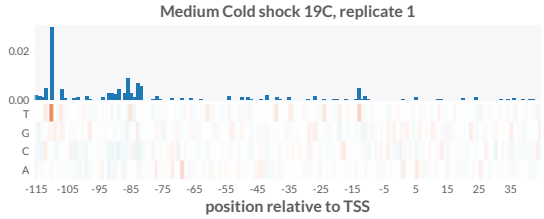

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

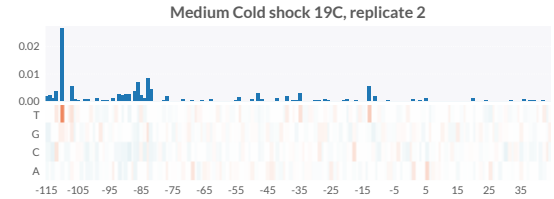

Ethanol (induction), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

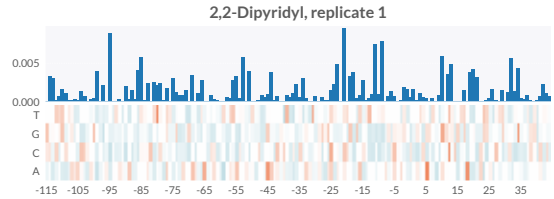

2pH (HCl), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

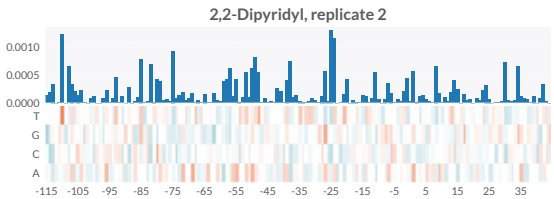

Xylose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

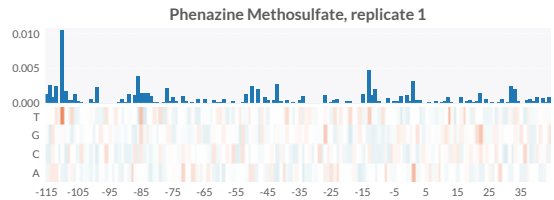

Medium Cold shock 19C, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

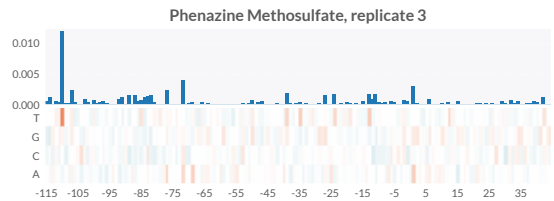
tolCp4

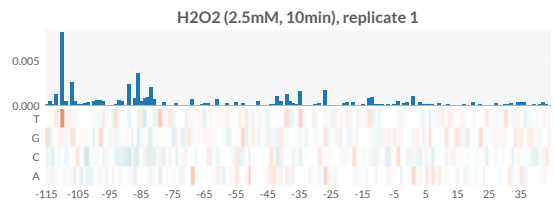

Medium Cold shock 19C, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

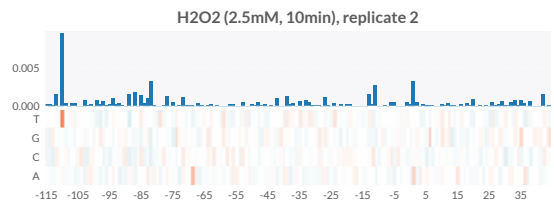

2,2-Dipyridyl, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

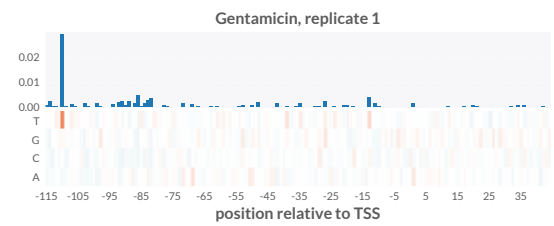

2,2-Dipyridyl, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

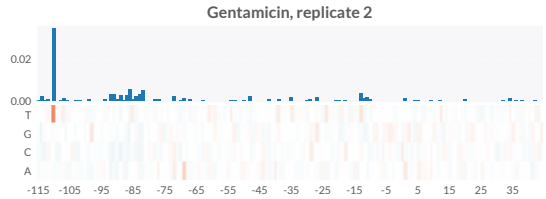

Phenazine Methosulfate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

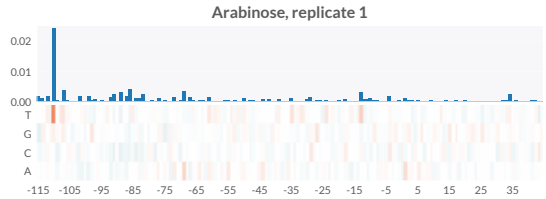

Phenazine Methosulfate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

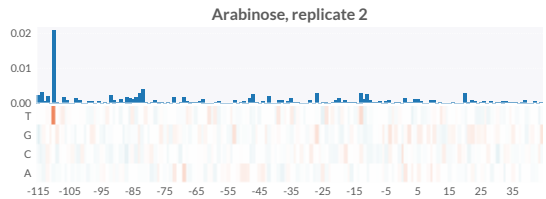

H2O2 (2.5mM, 10min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

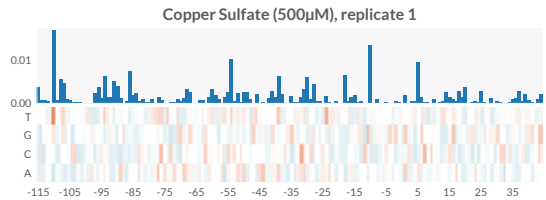

H2O2 (2.5mM, 10min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

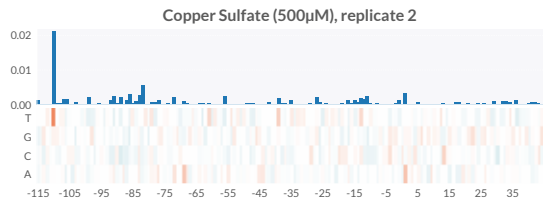

Gentamicin, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

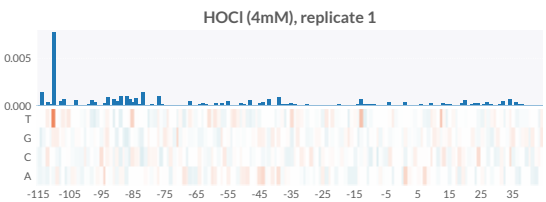

Gentamicin, replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

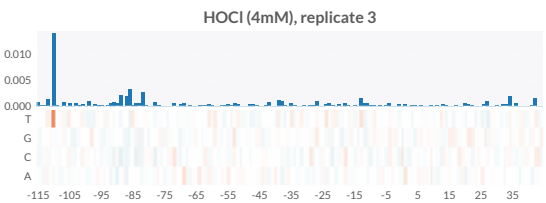

Arabinose, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

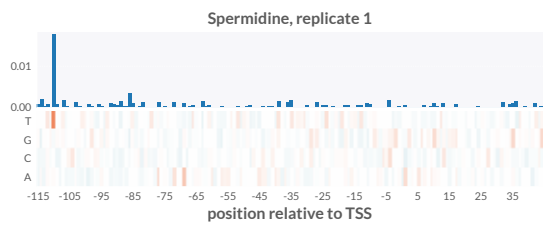

Arabinose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Copper Sulfate (500µM), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

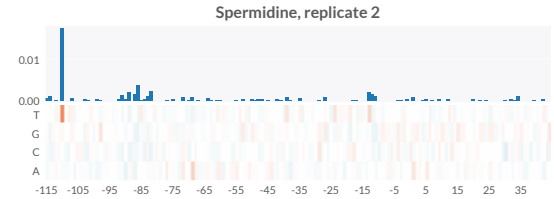

Copper Sulfate (500µM), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

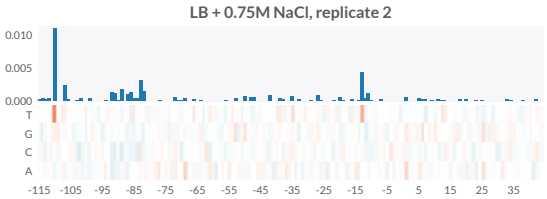

HOCl (4mM), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

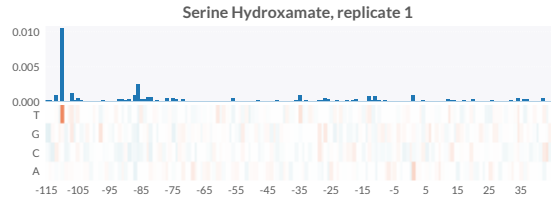

HOCl (4mM), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

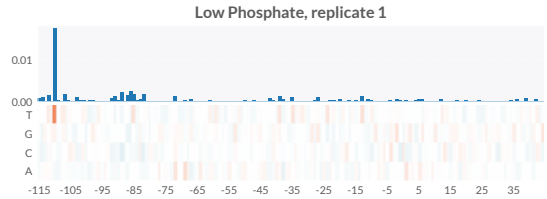

Spermidine, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

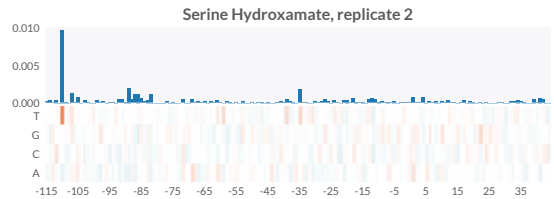
tolCp4

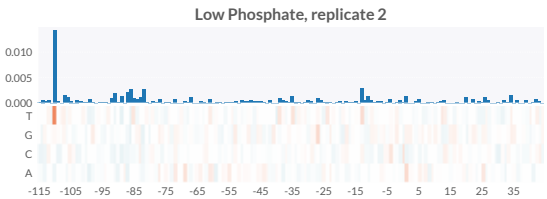

Spermidine, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

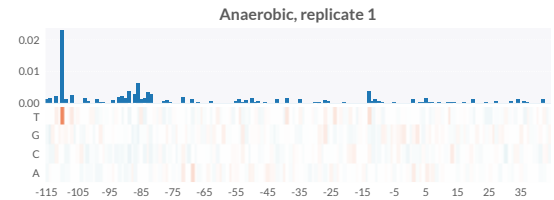

LB + 0.75M NaCl, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

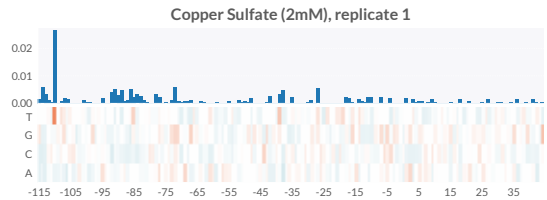

Serine Hydroxamate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

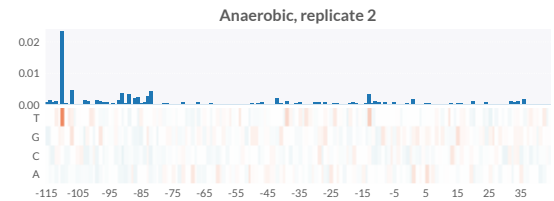

Low Phosphate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

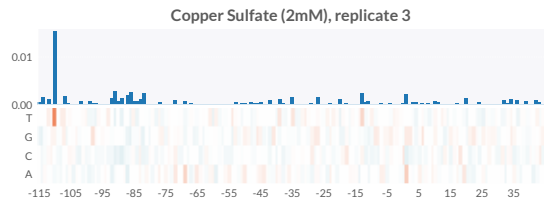

Serine Hydroxamate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

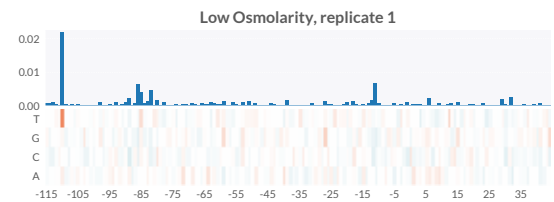

Low Phosphate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

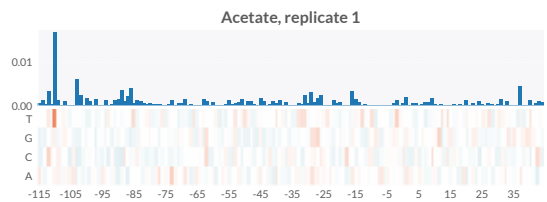

Anaerobic, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

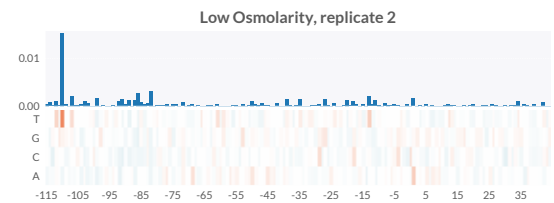

Copper Sulfate (2mM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

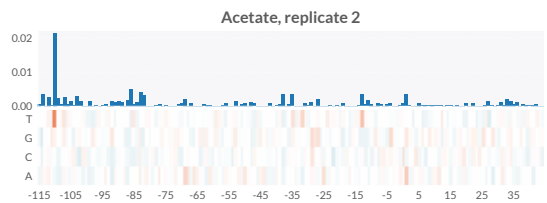

Anaerobic, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

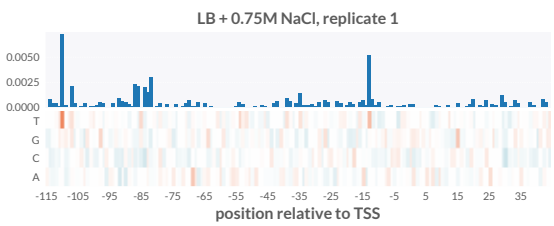

Copper Sulfate (2mM), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

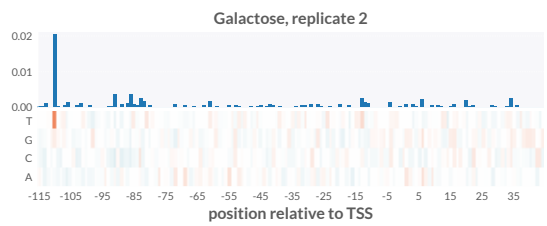

Low Osmolarity, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

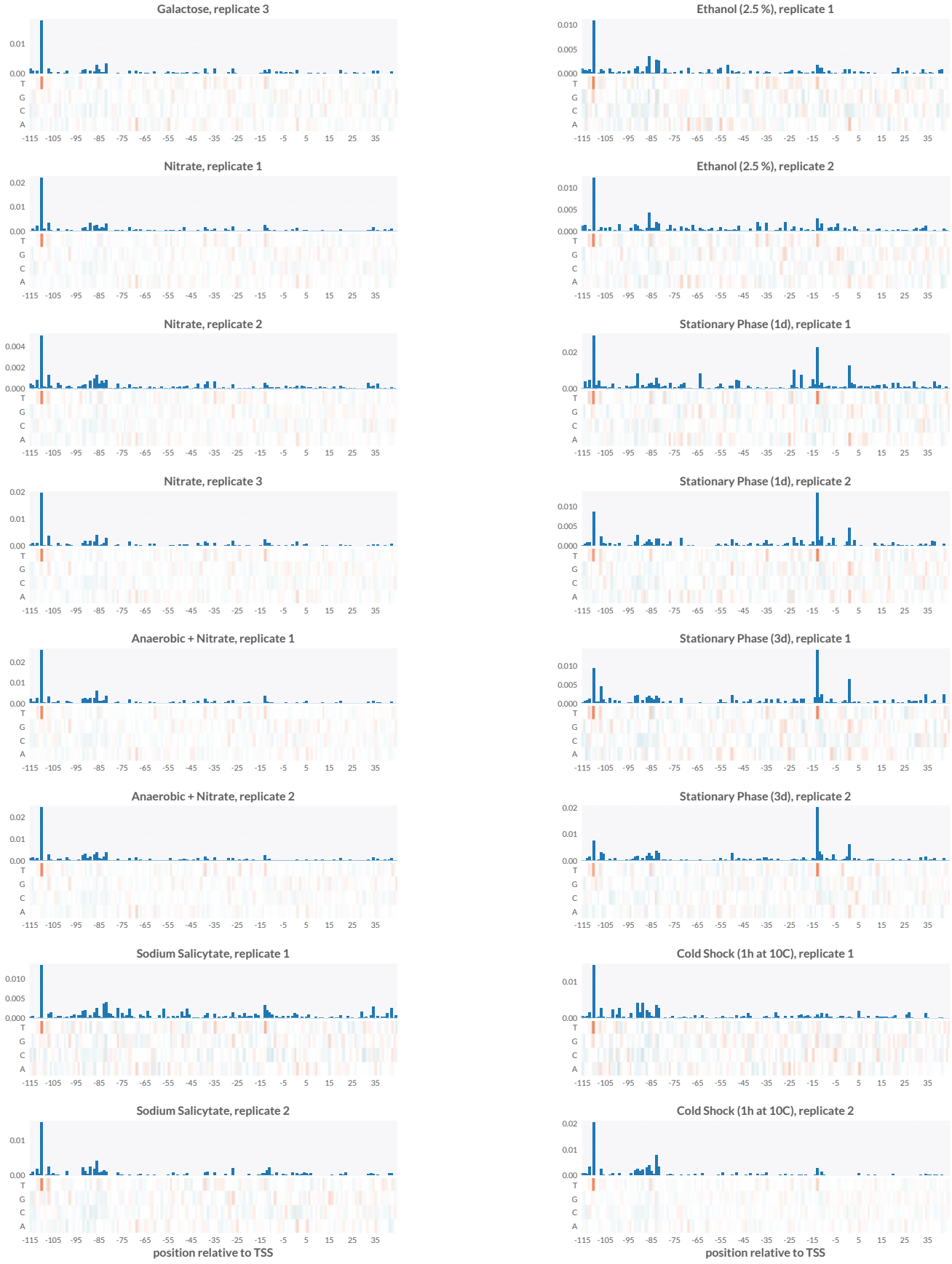

Low Osmolarity, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

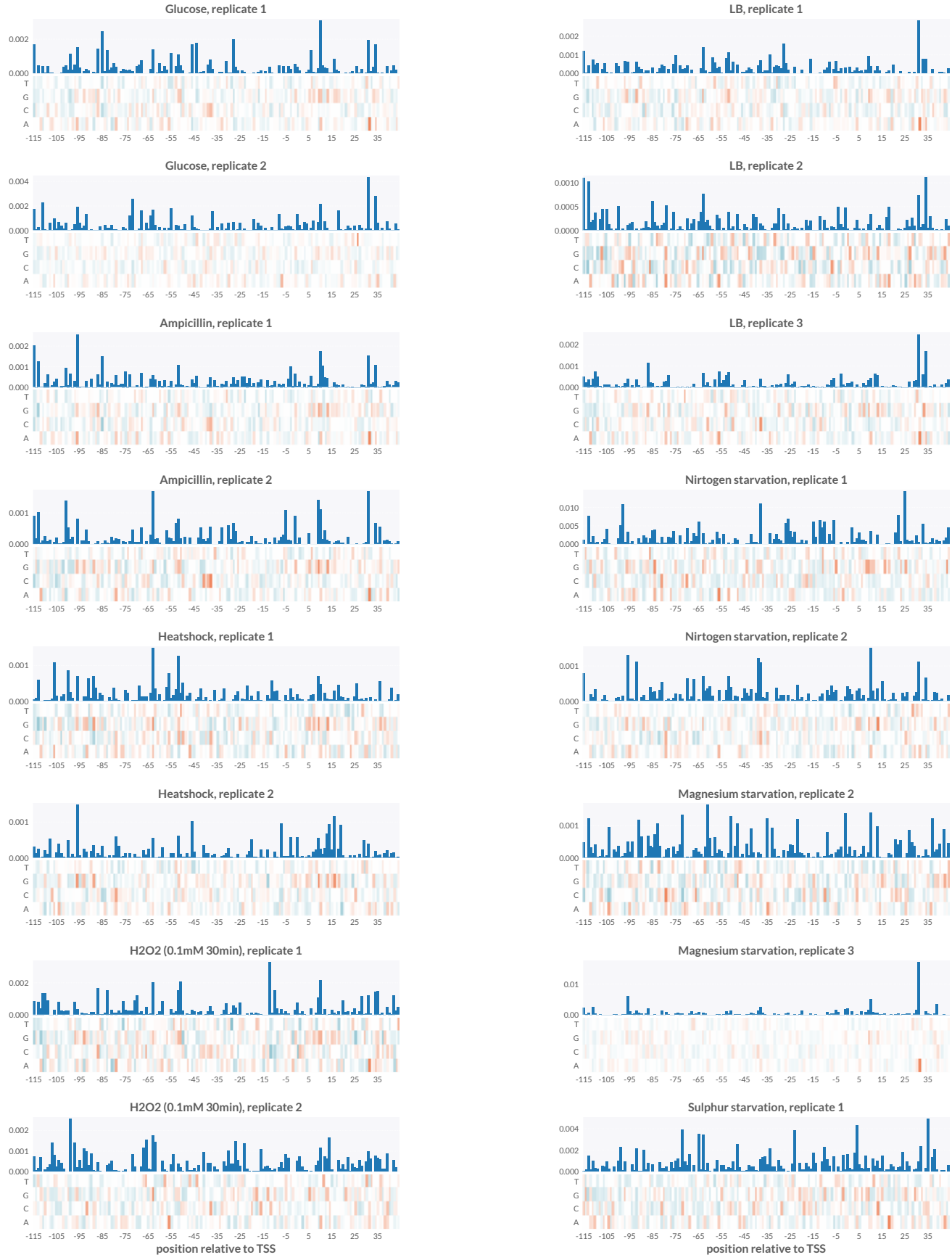

LB + 0.75M NaCl, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Galactose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

tolCp4


Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

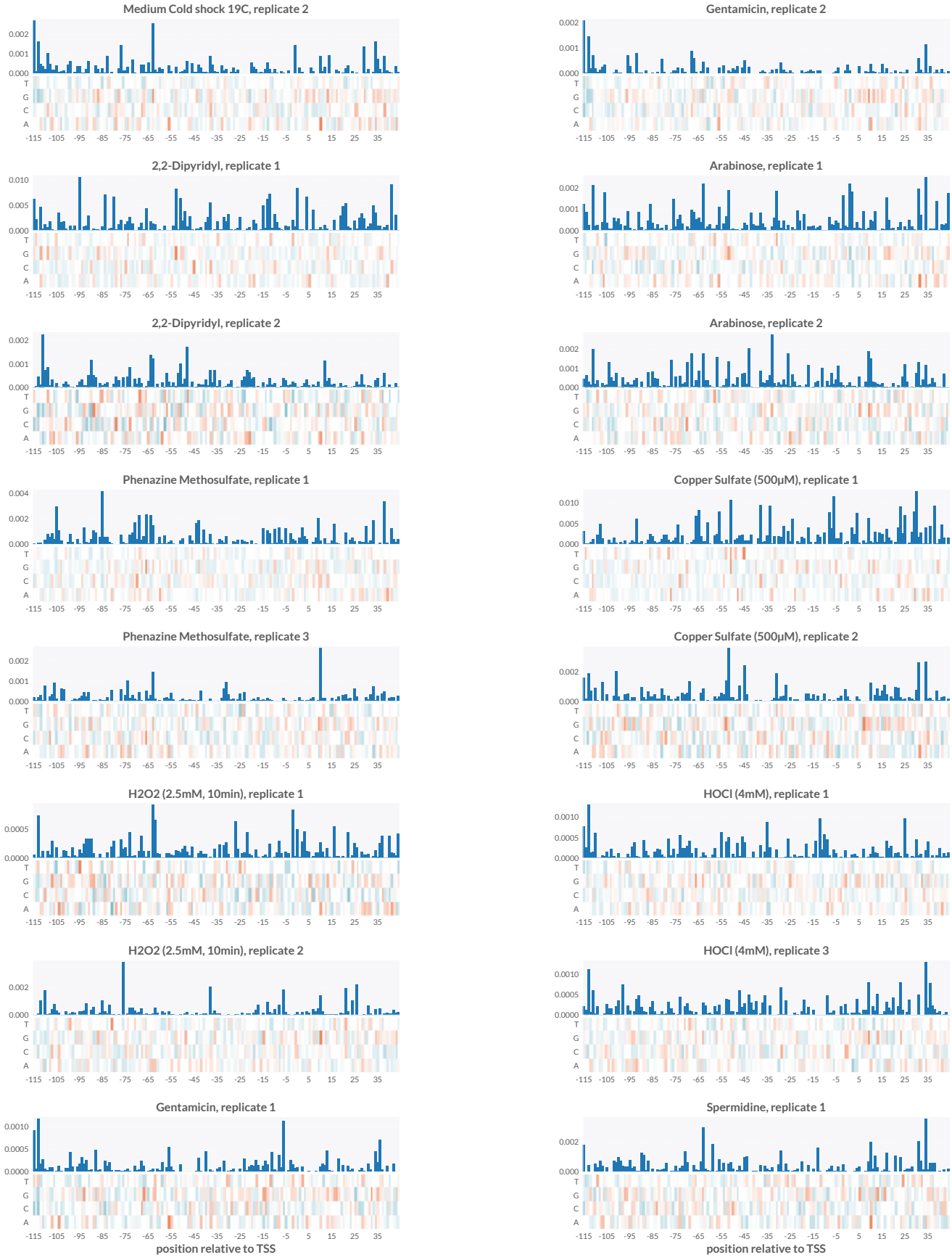
uacT_predicted



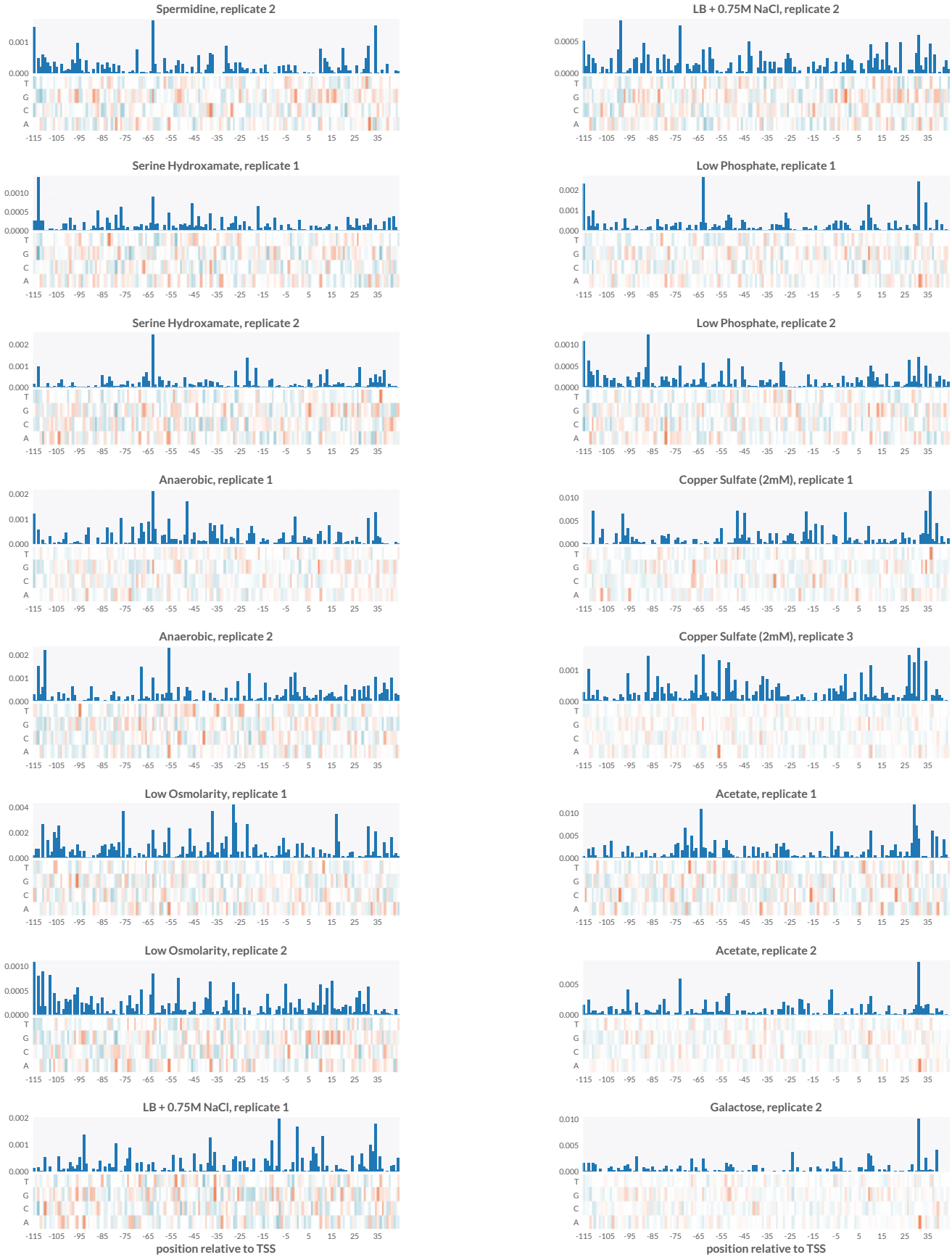
uacT_predicted



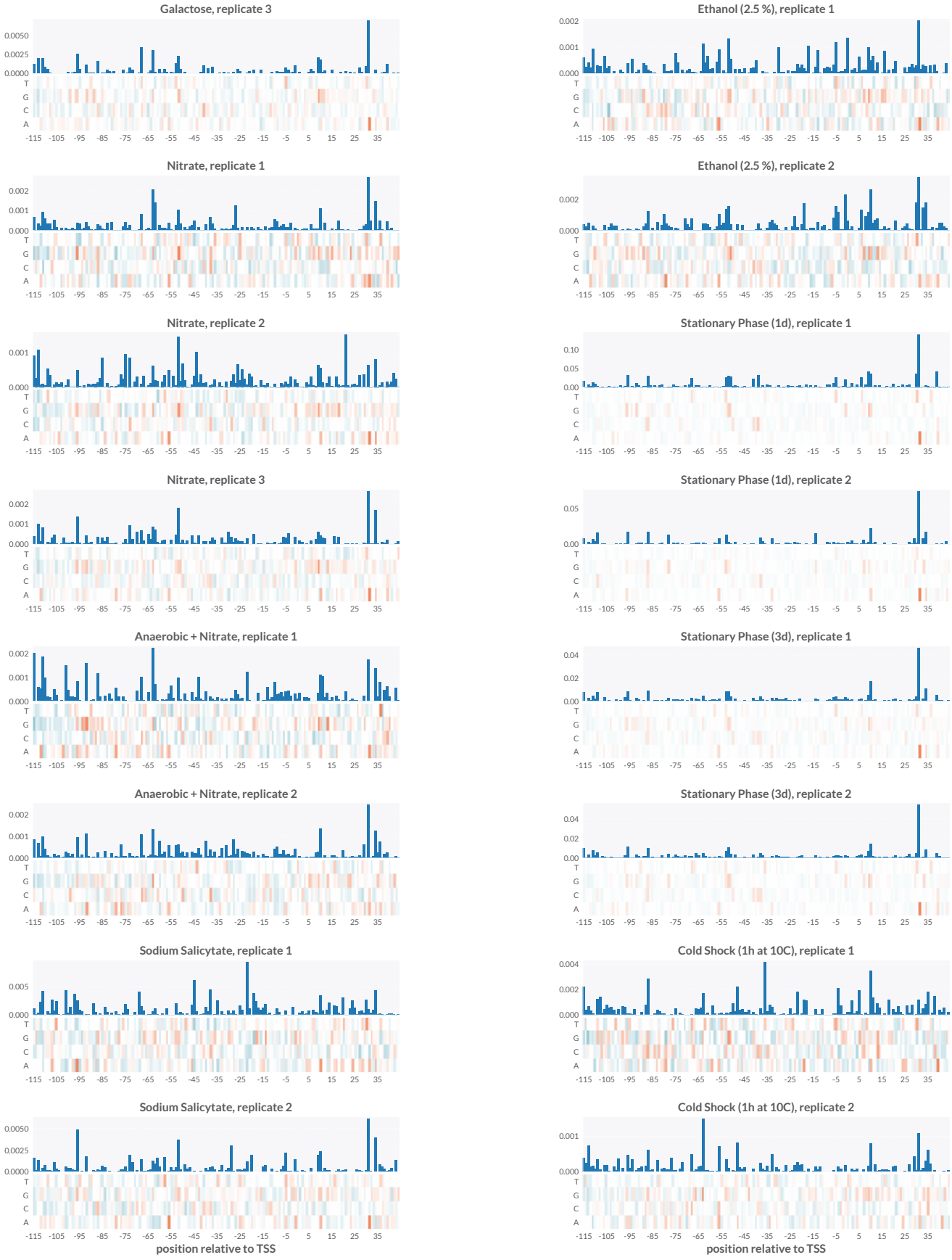
uacT_predicted



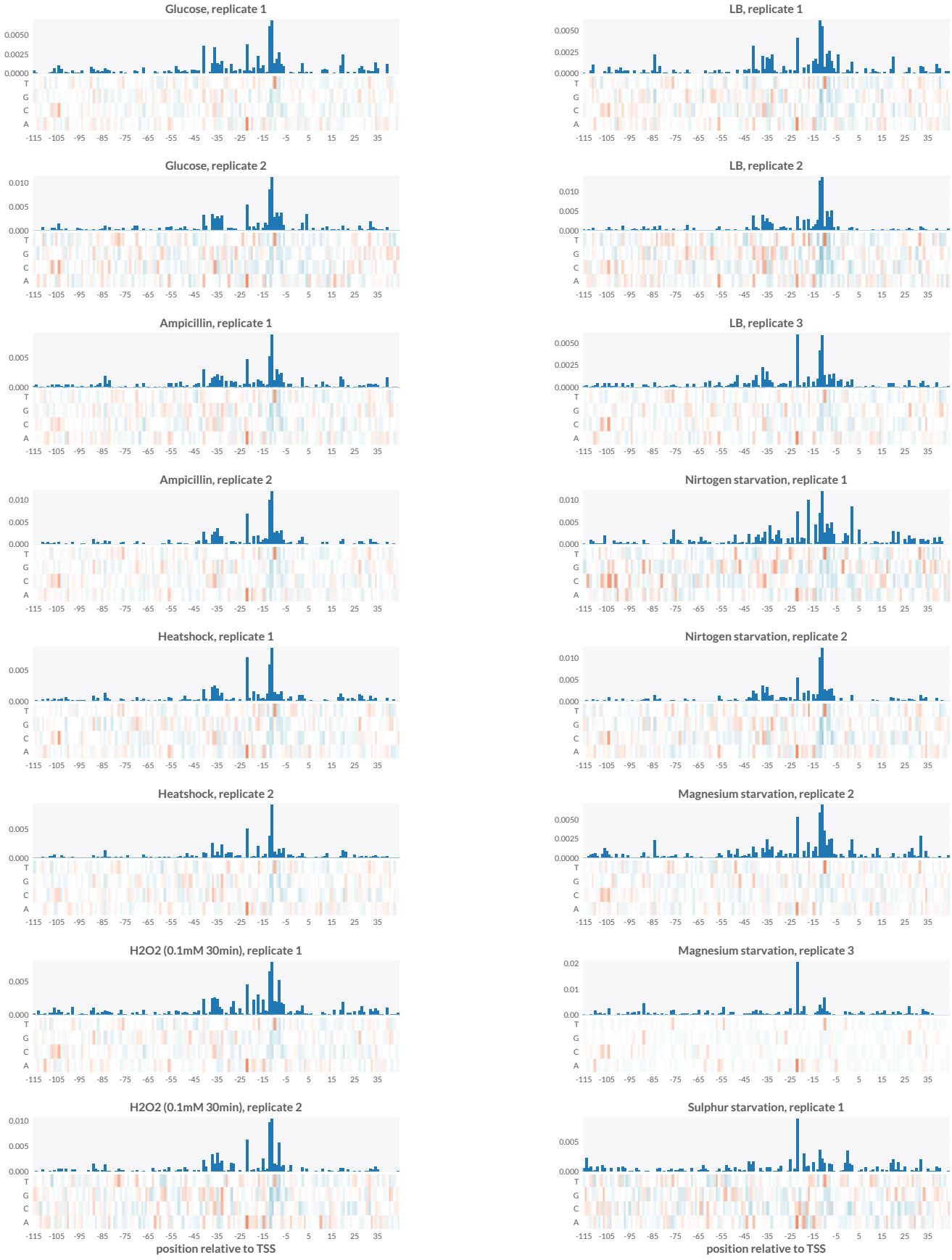
uacT_predicted



uacT_predicted



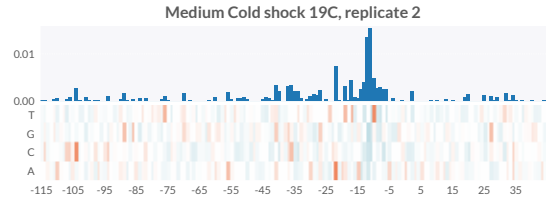
uofp

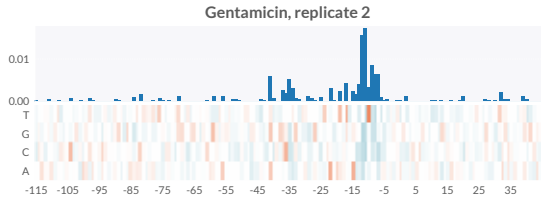

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

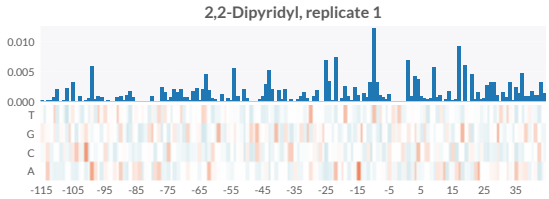
uofp

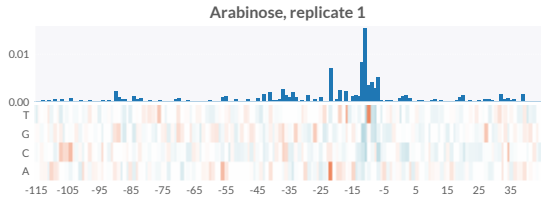

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

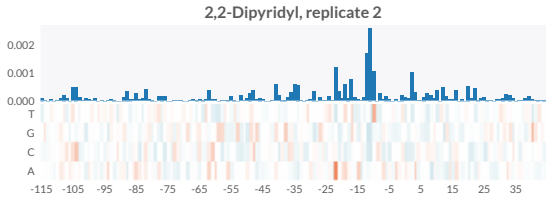
uofp

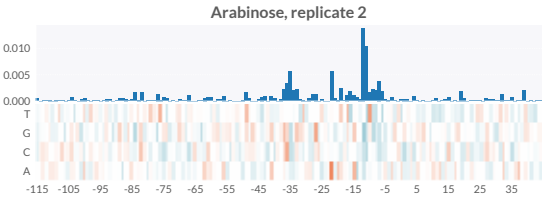

Medium Cold shock 19C, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

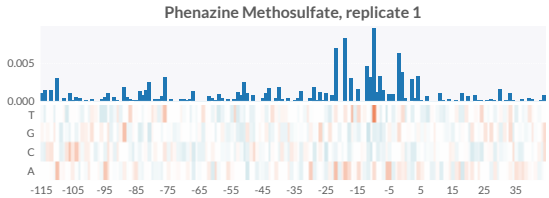

Gentamicin, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

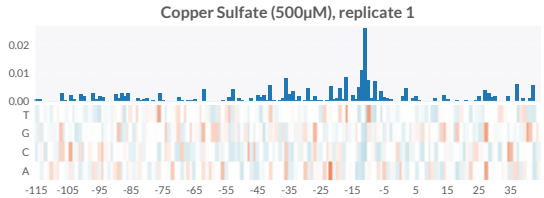

2,2-Dipyridyl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

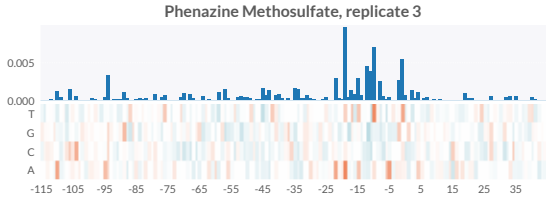

Arabinose, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

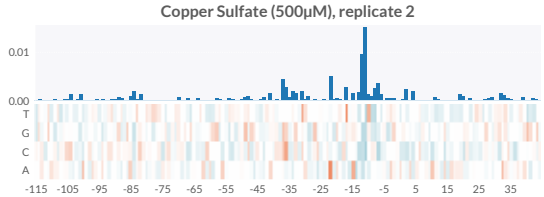

2,2-Dipyridyl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

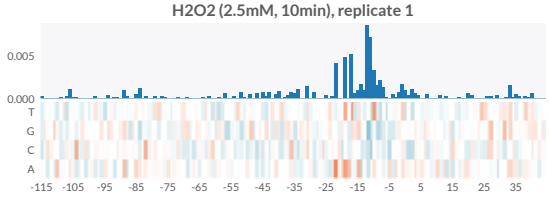

Arabinose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

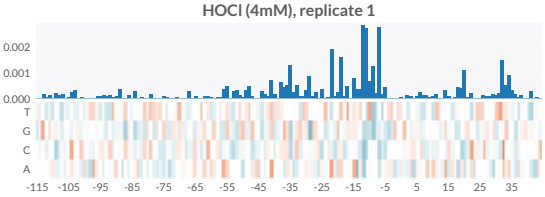

Phenazine Methosulfate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

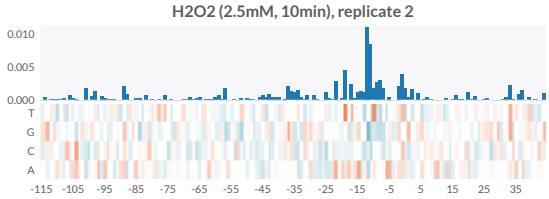

Copper Sulfate (500µM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

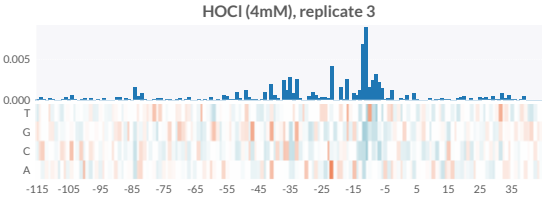

Phenazine Methosulfate, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

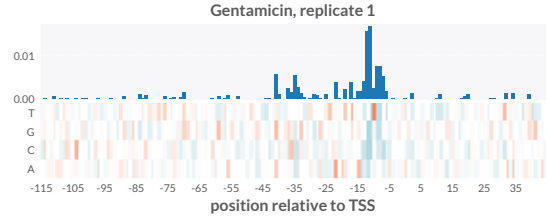

Copper Sulfate (500µM), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

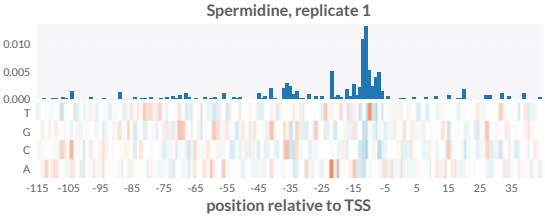

H2O2 (2.5mM, 10min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


H2O2 (2.5mM, 10min), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

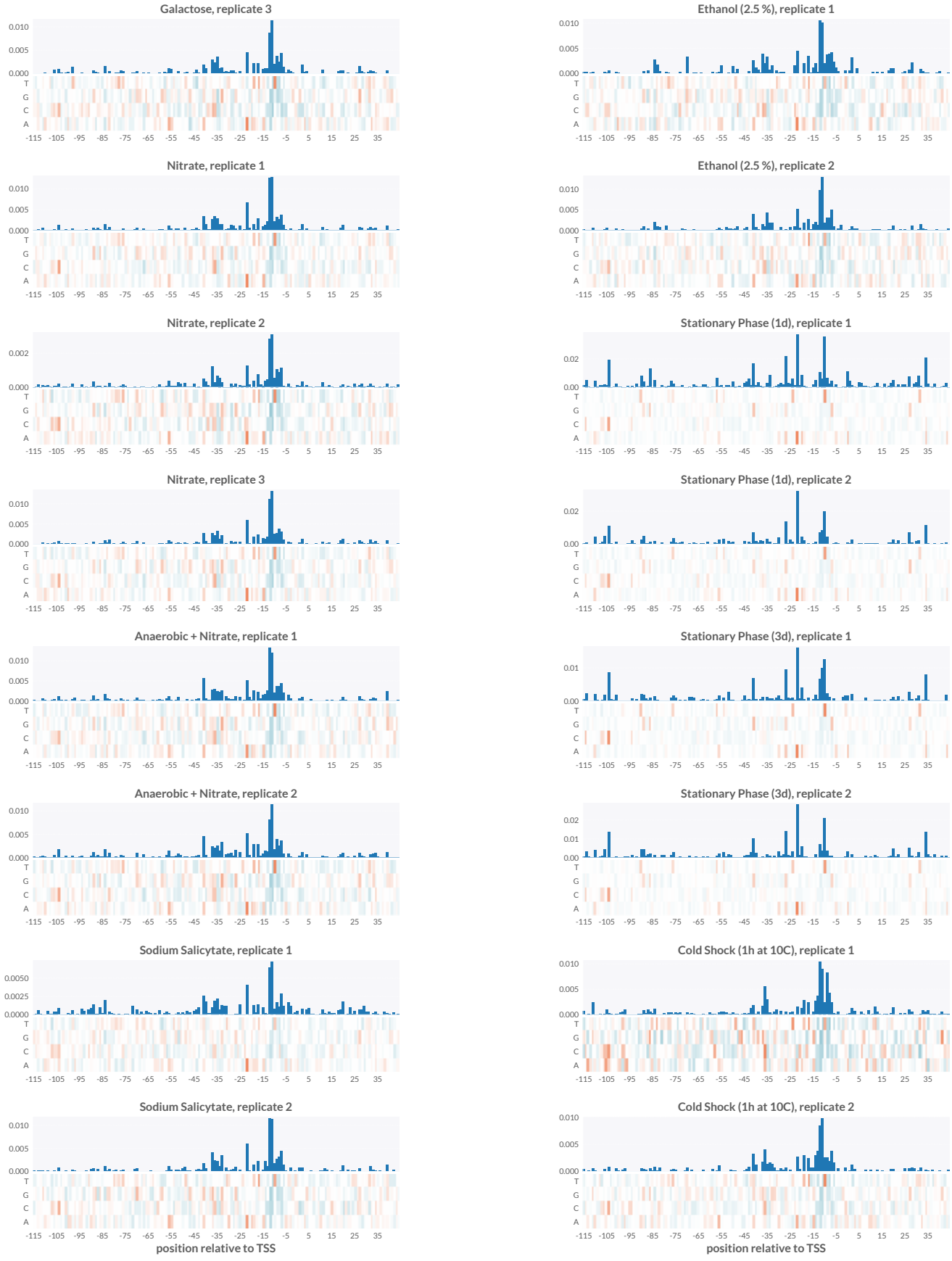

Gentamicin, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Spermidine, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

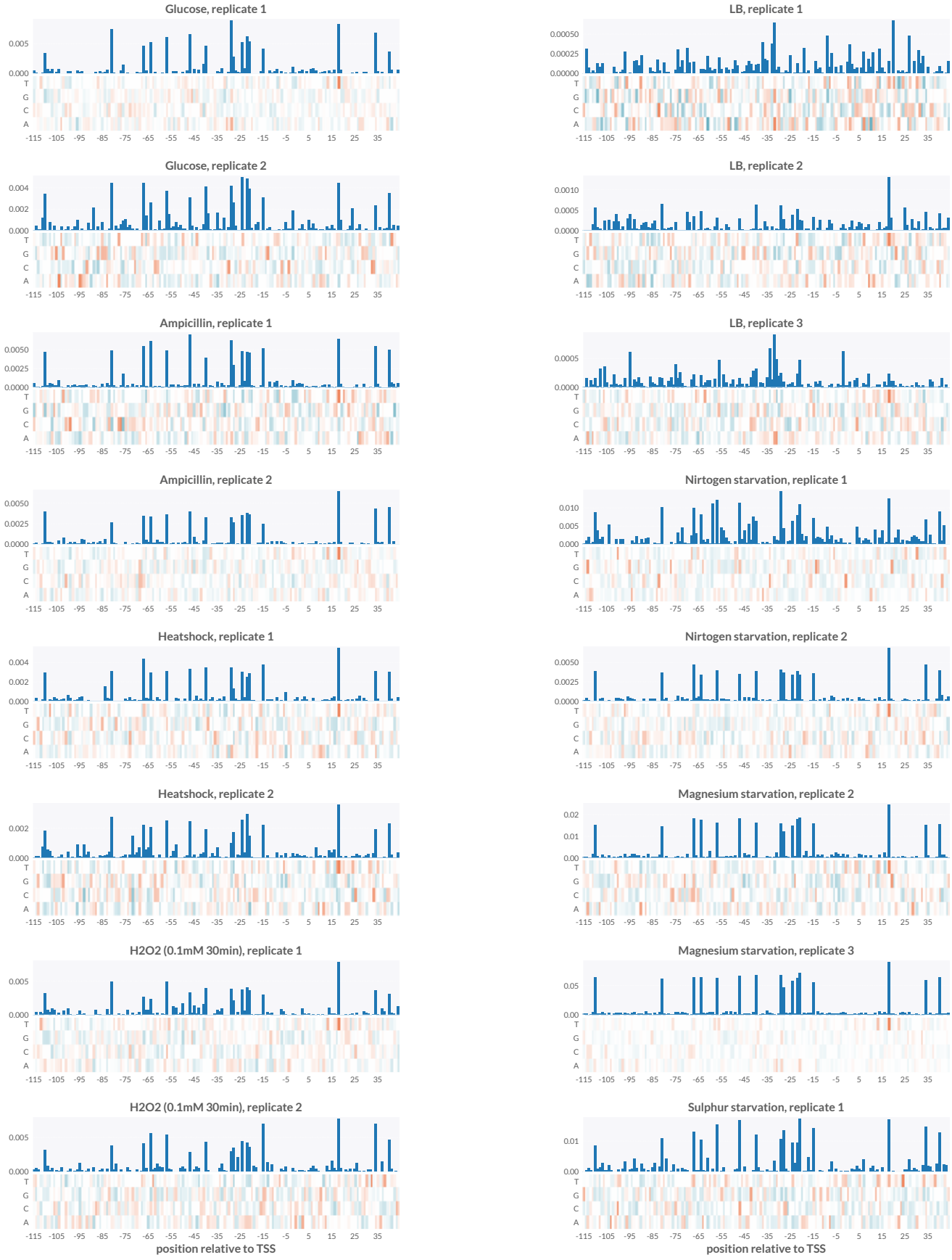
uofp


Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

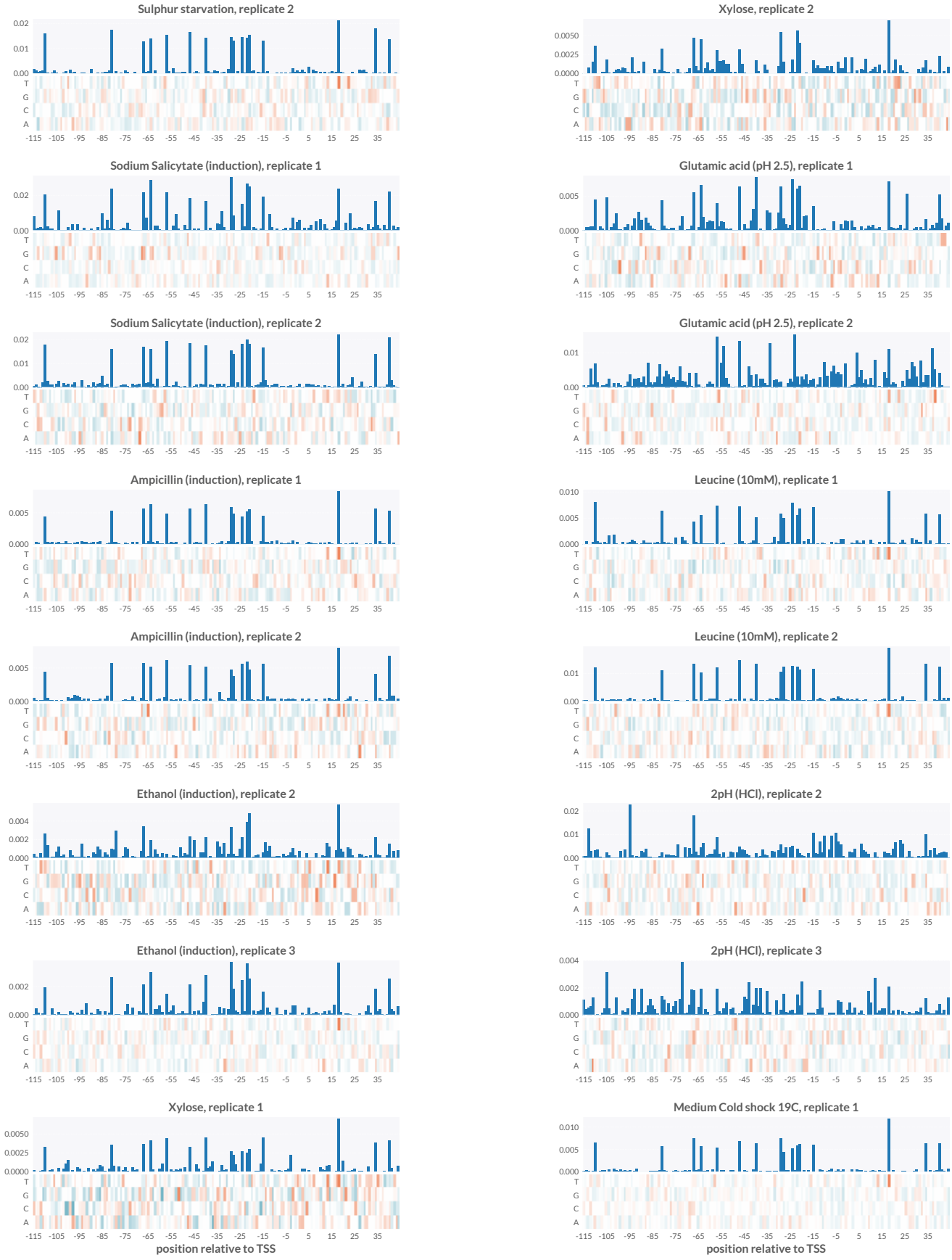
uofp


Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
position relative to TSS
position relative to TSS

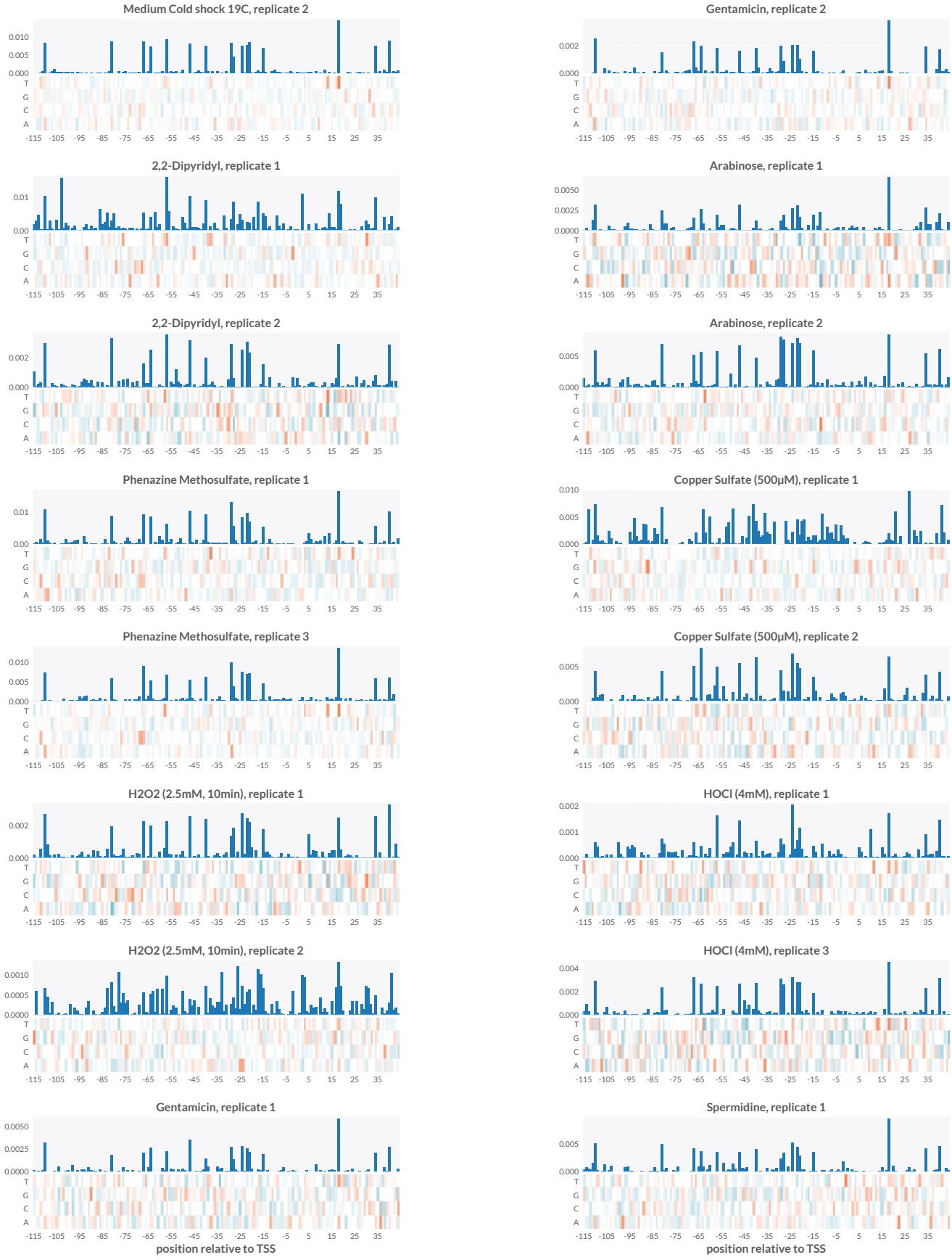
xdhAp1


Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

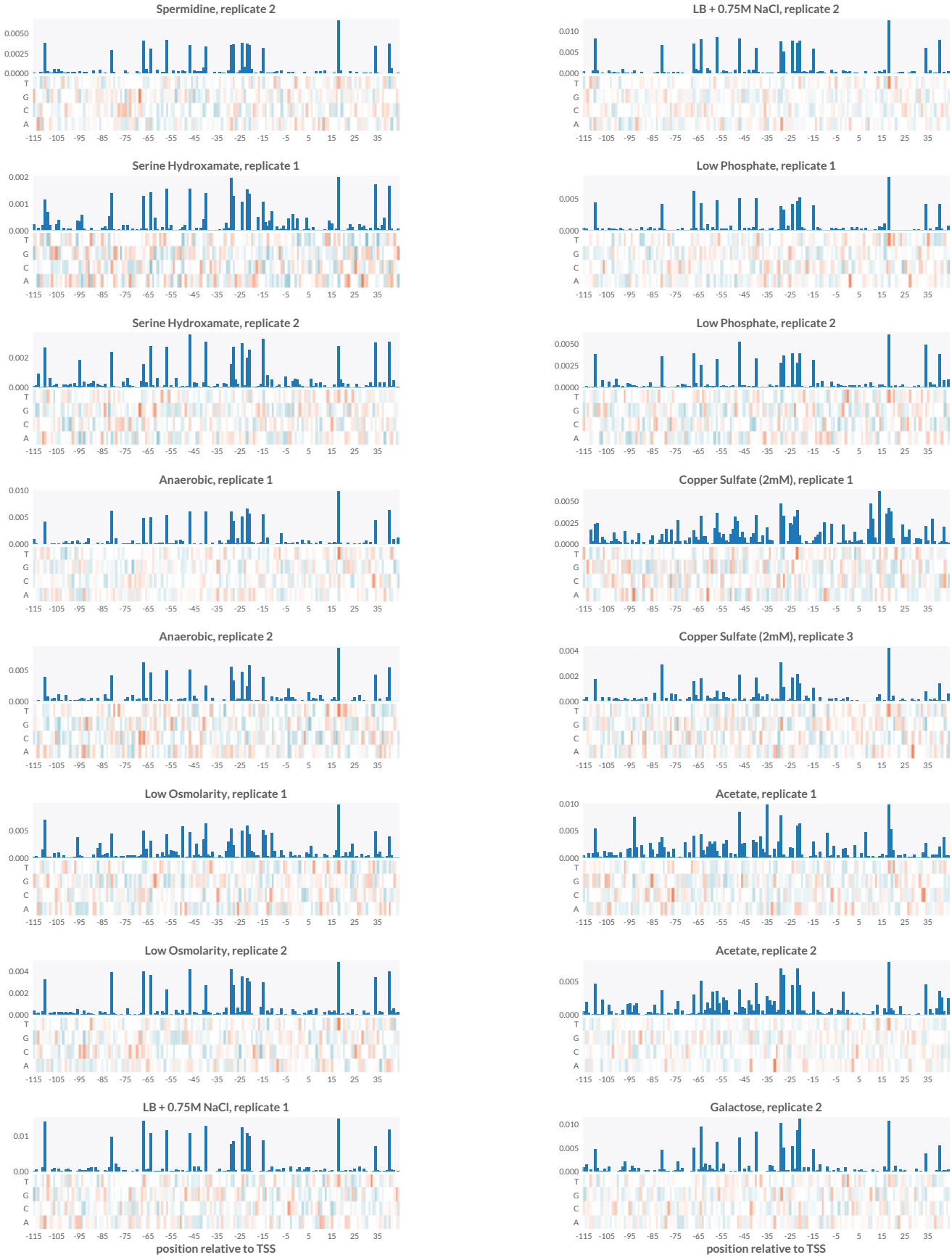
xdhAp1


Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

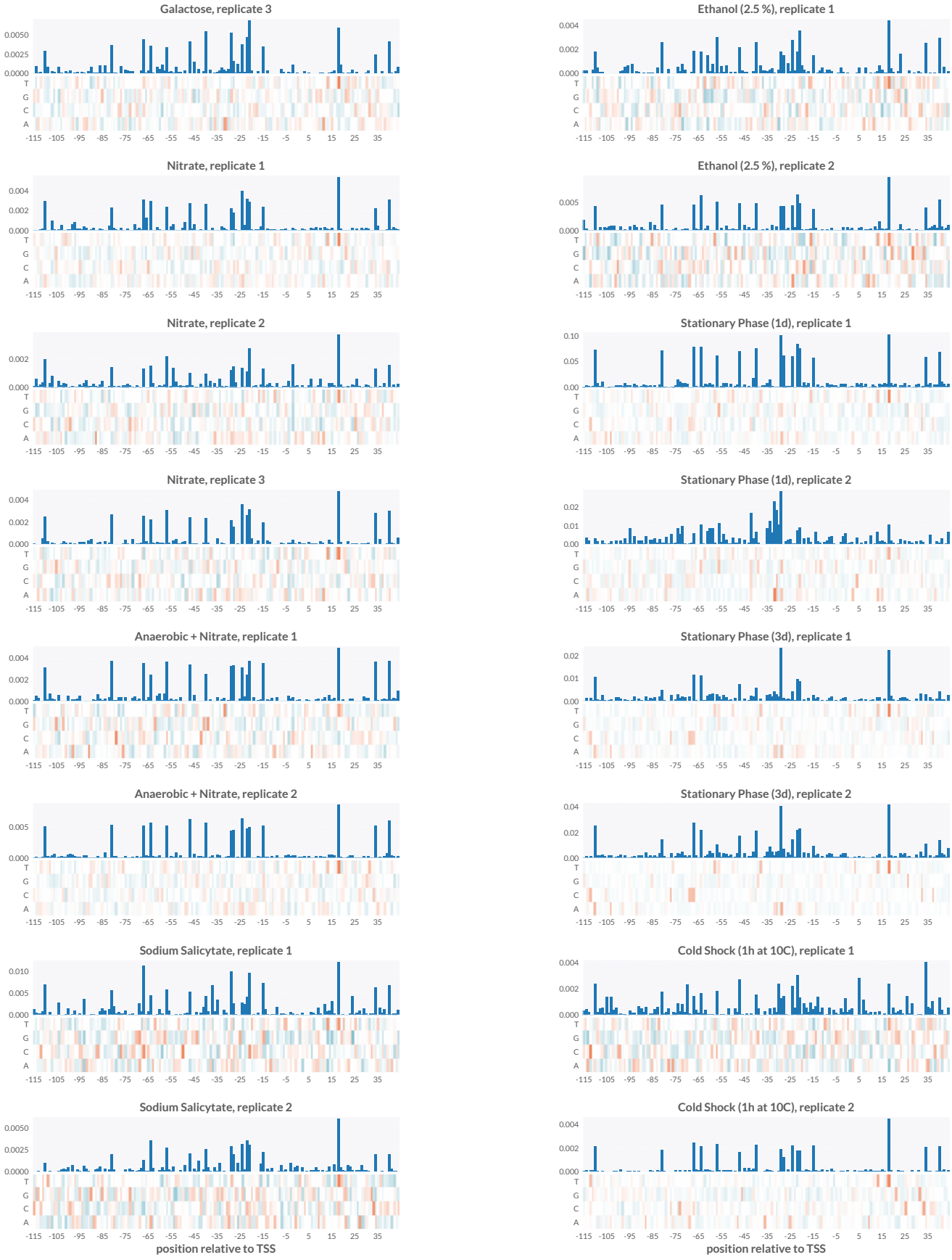
xdhAp1


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

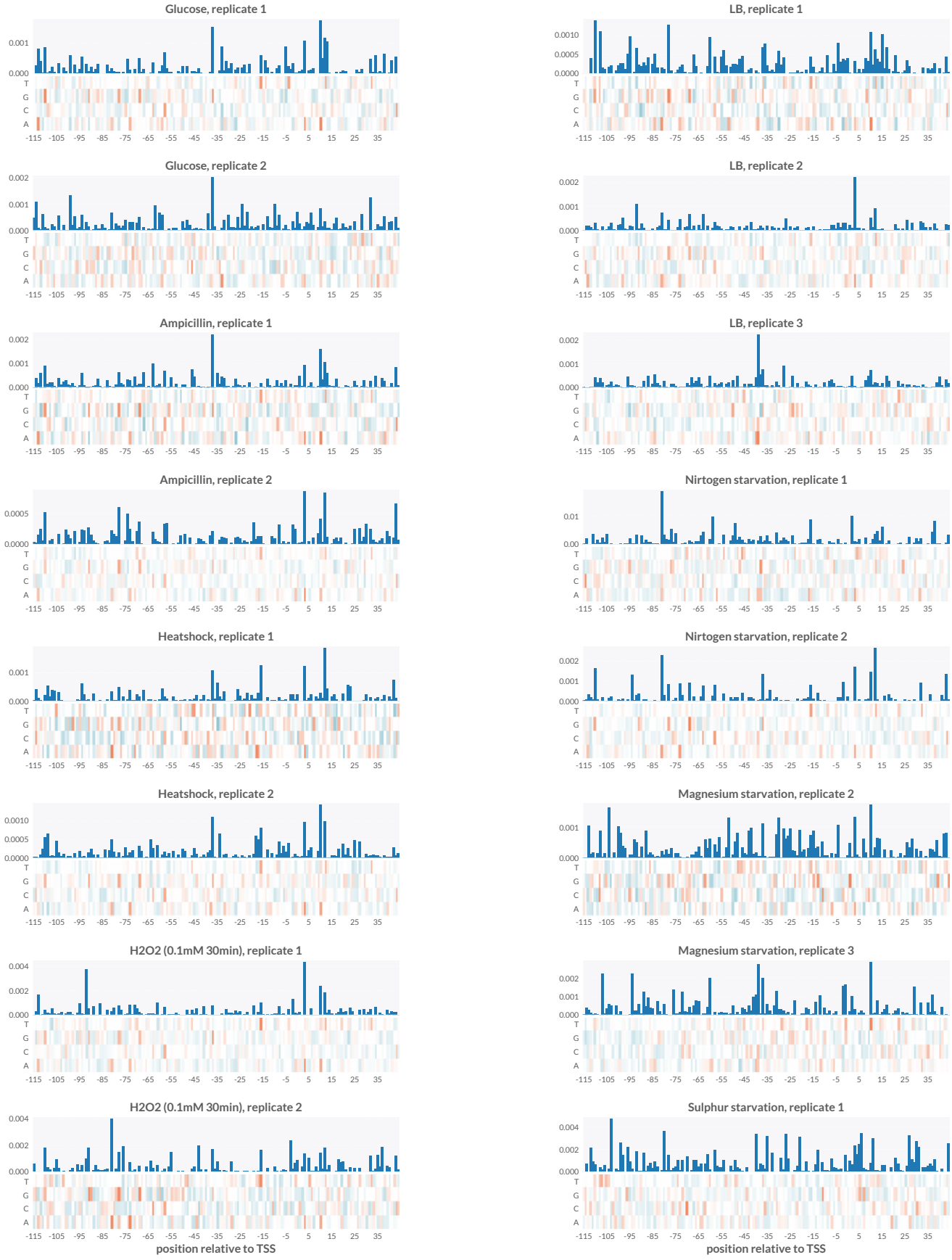
xdhAp1


Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

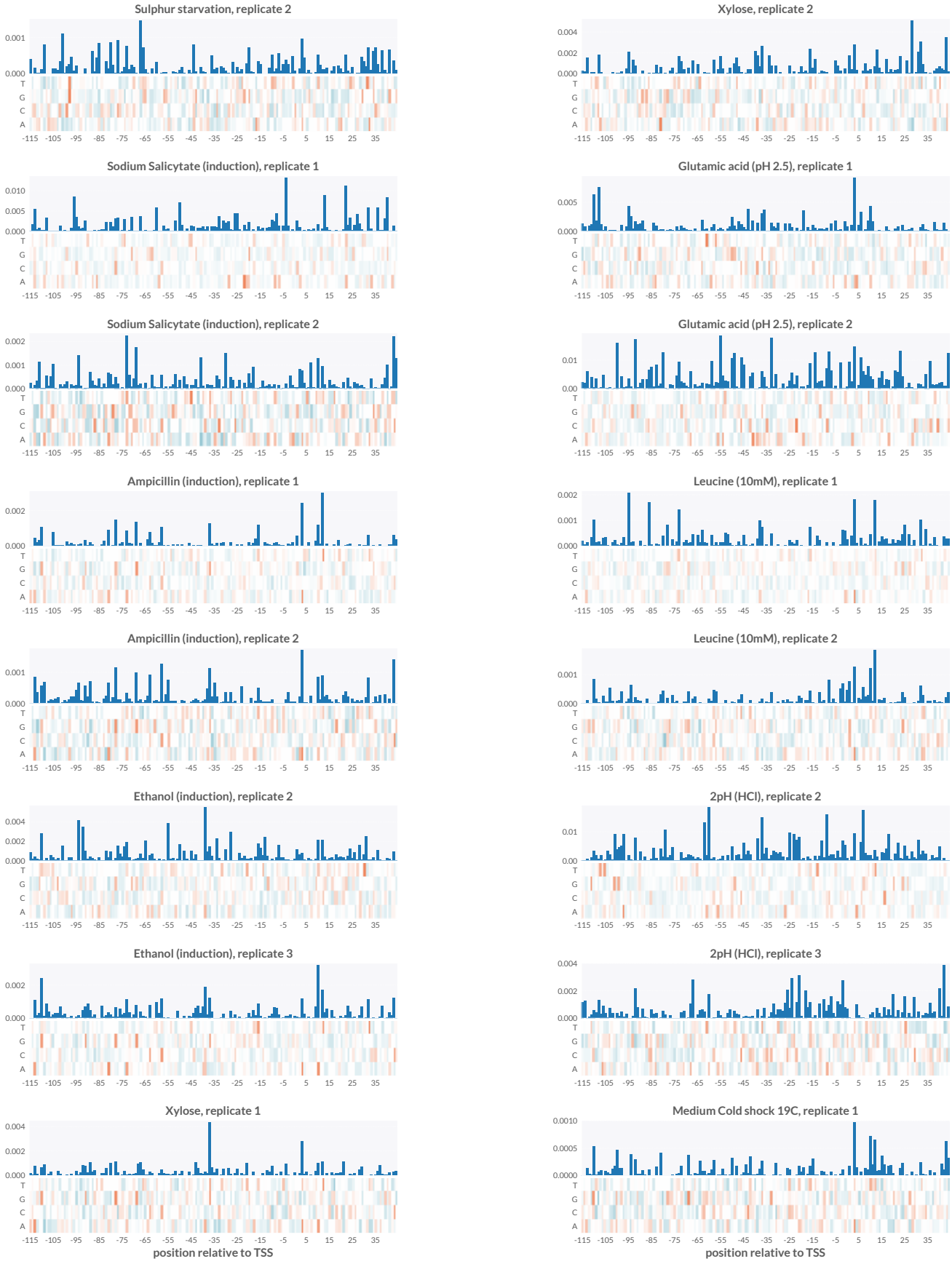
xdhAp1


Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

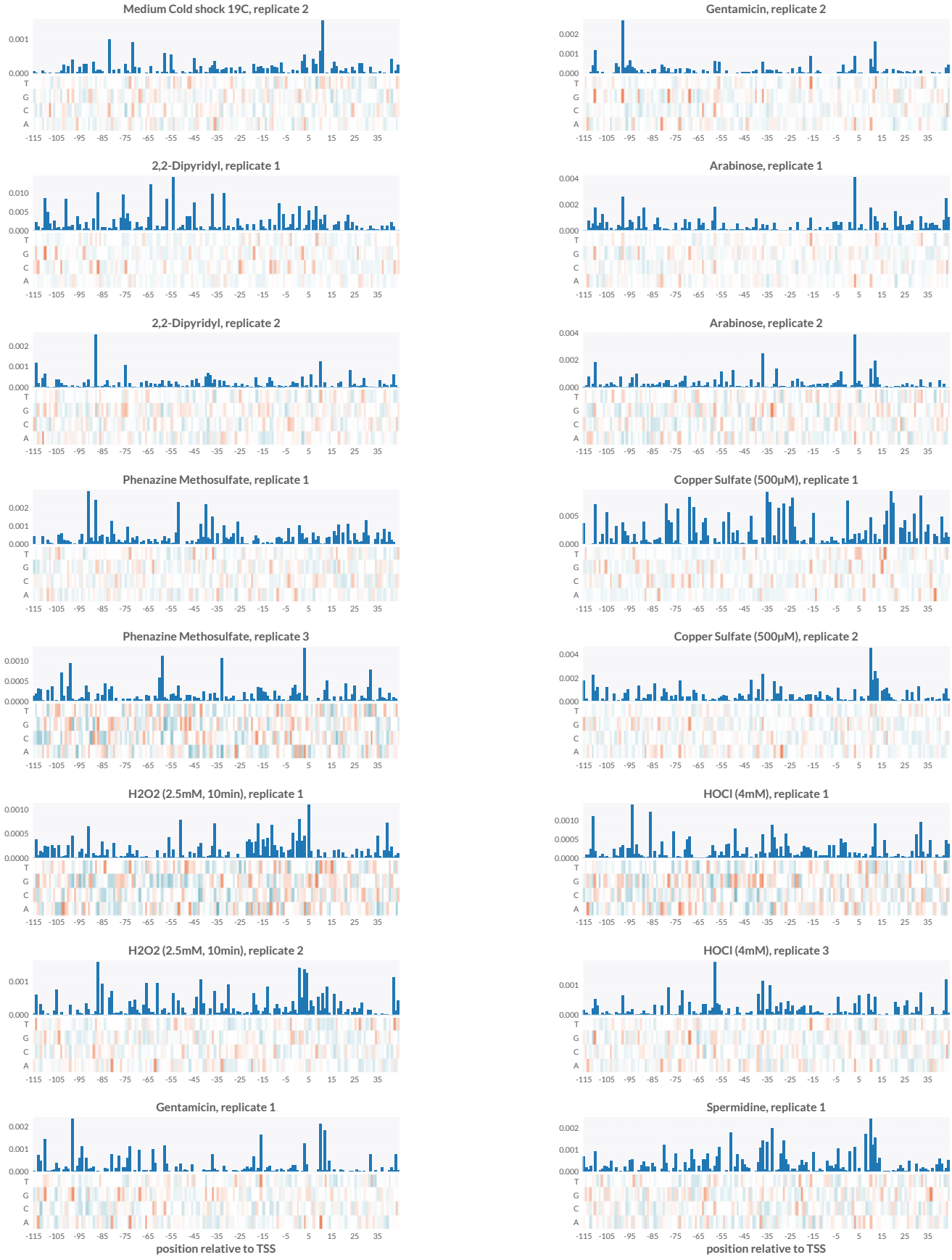
xdhAp2


Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

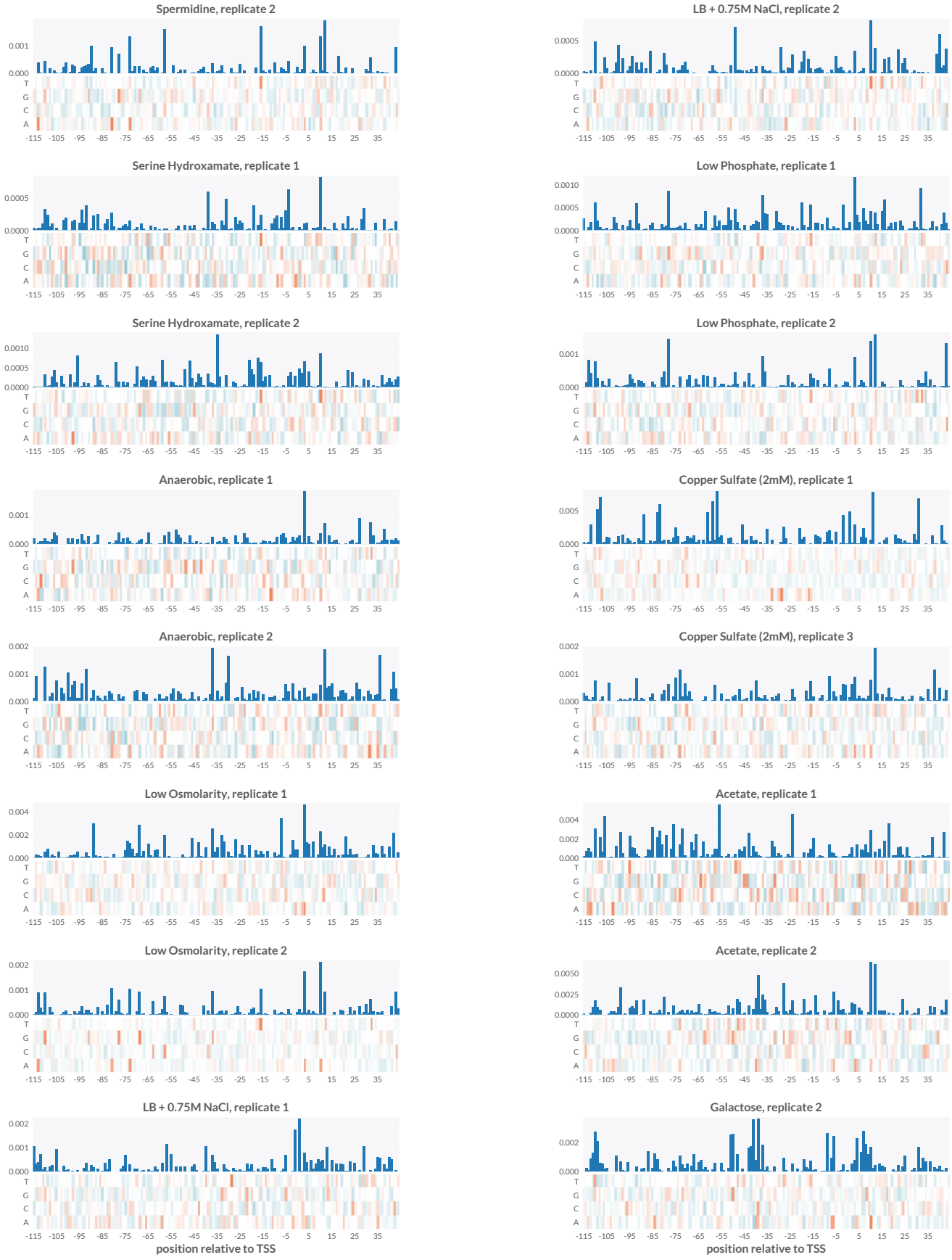
xdhAp2


Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

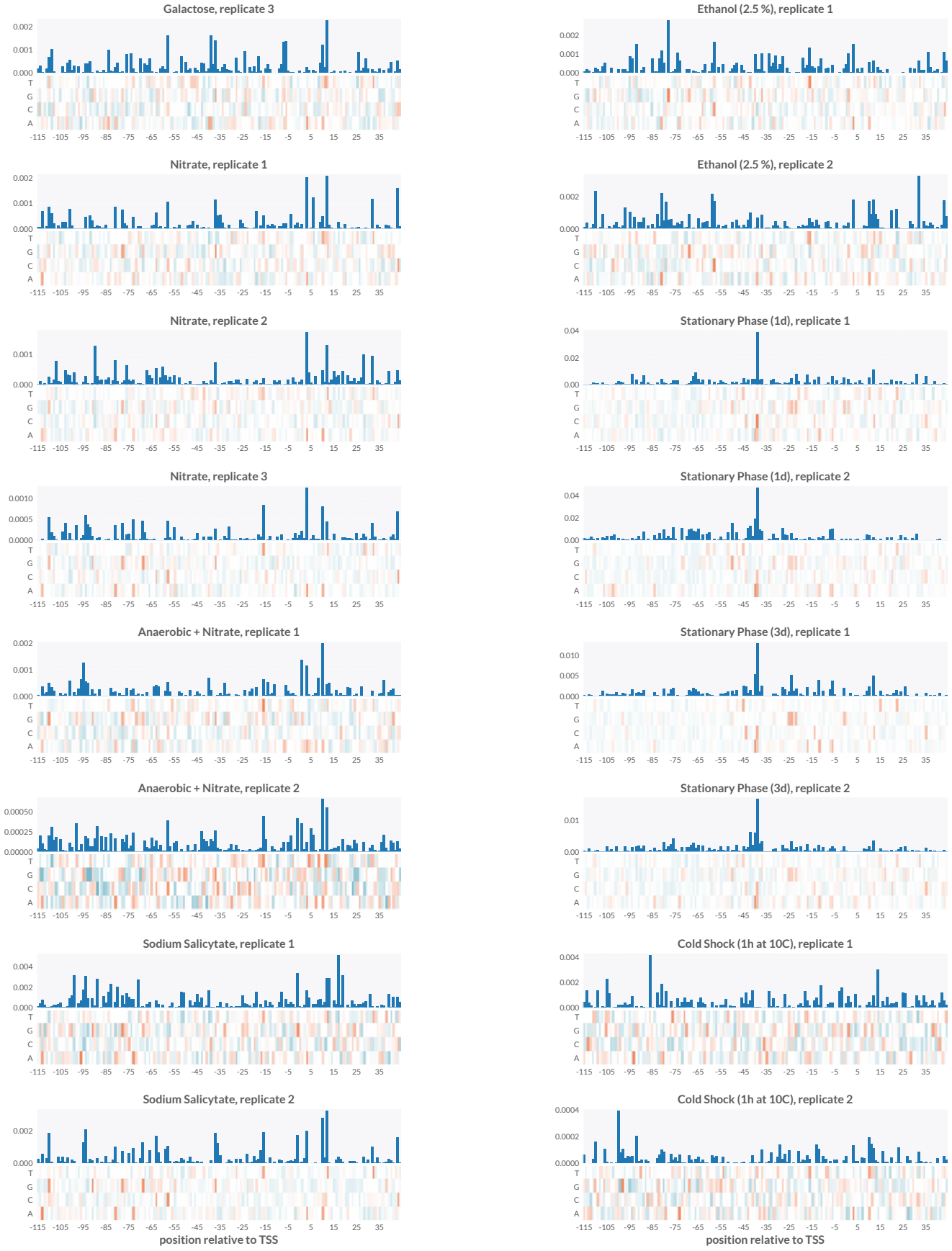
xdhAp2


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

xdhAp2


Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

xdhAp2


Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

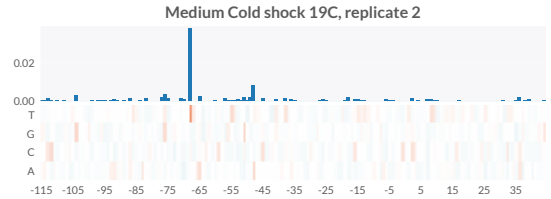
xylAp

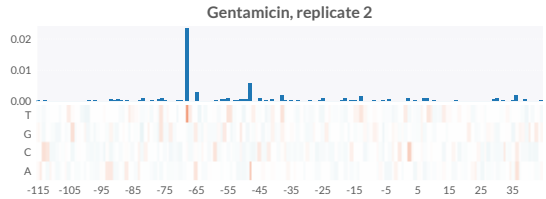

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

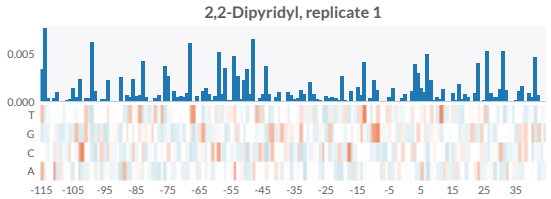
xylAp

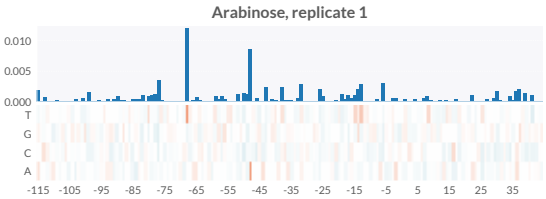

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

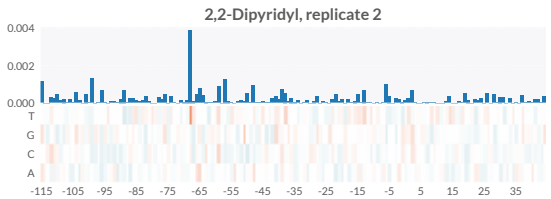
xylAp

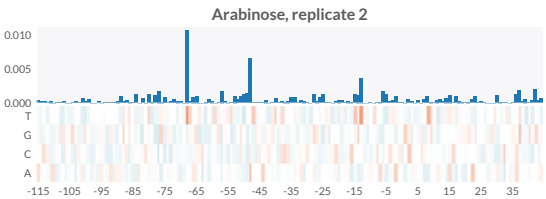

Medium Cold shock 19C, replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

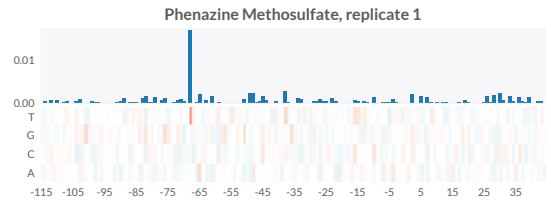

Gentamicin, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

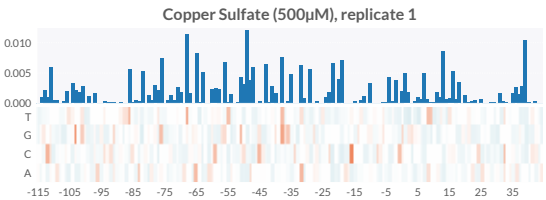

2,2-Dipyridyl, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

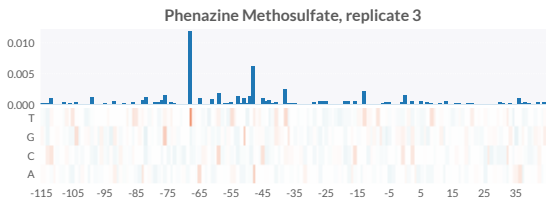

Arabinose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

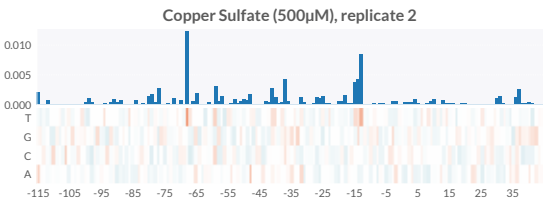

2,2-Dipyridyl, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

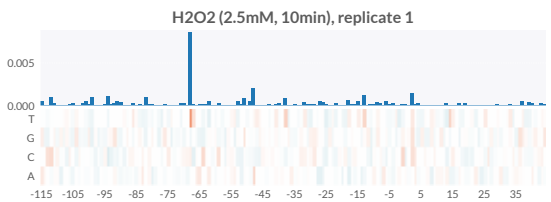

Arabinose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

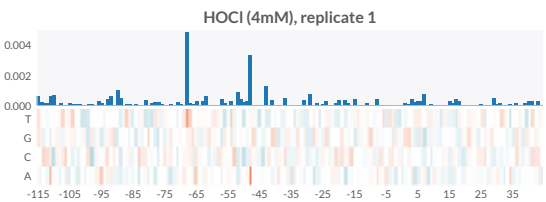

Phenazine Methosulfate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

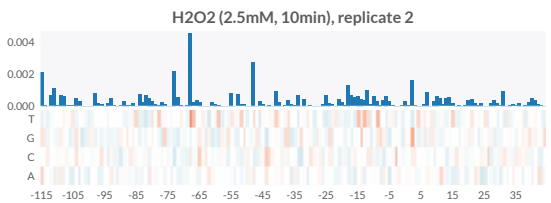

Copper Sulfate (500µM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

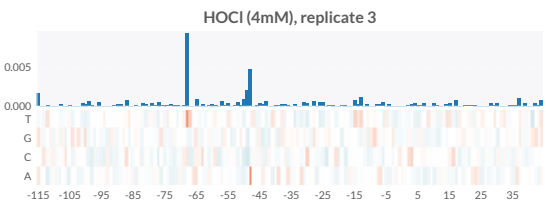

Phenazine Methosulfate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

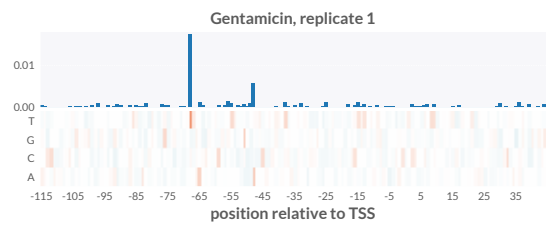

Copper Sulfate (500µM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

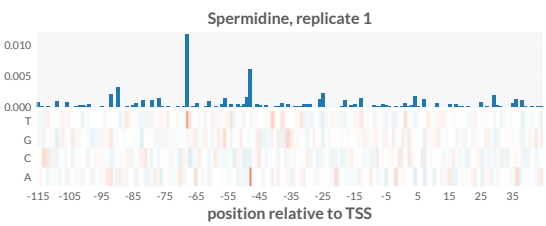

H2O2 (2.5mM, 10min), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

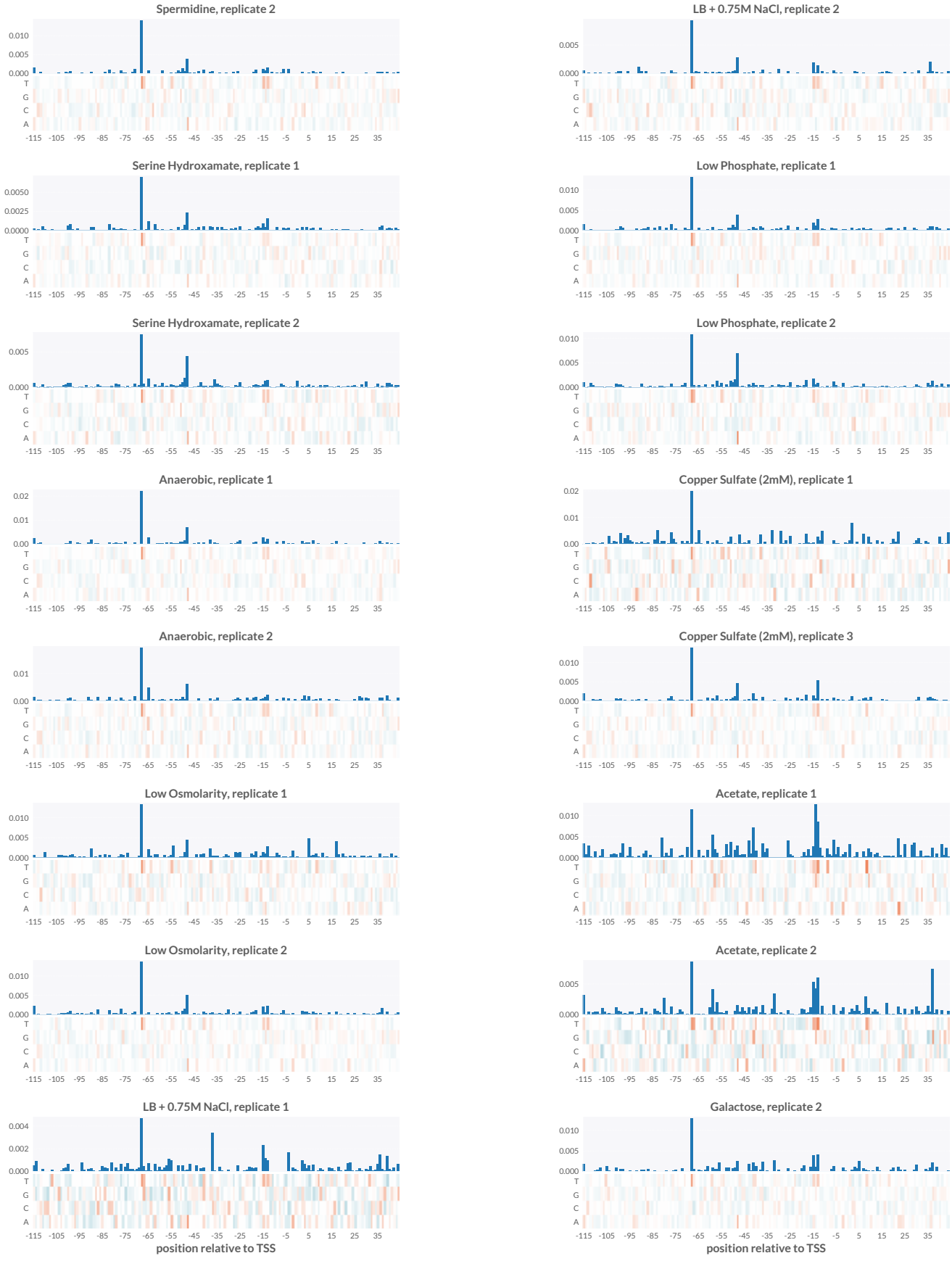

H2O2 (2.5mM, 10min), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Gentamicin, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Spermidine, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

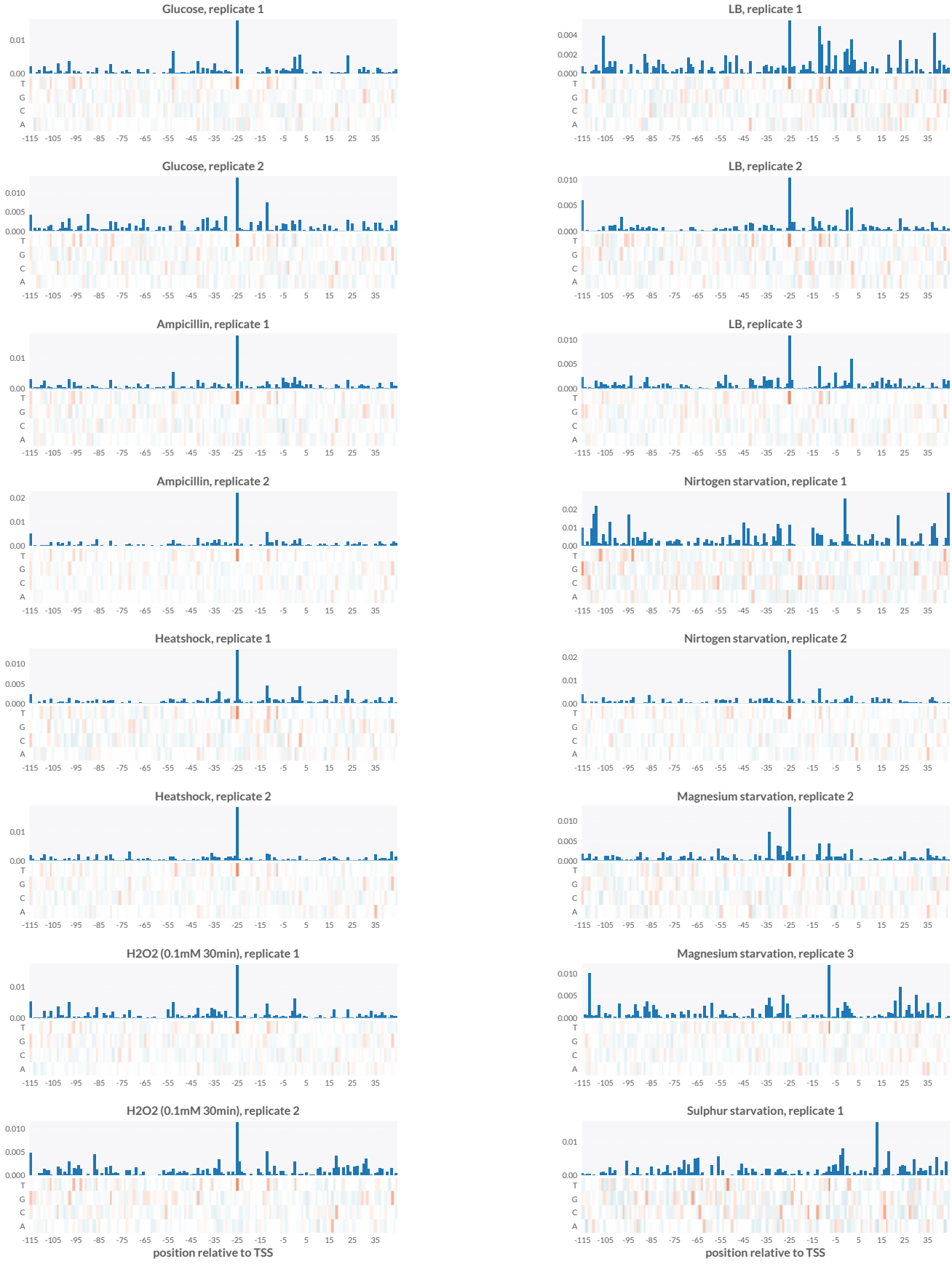
xylAp


Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

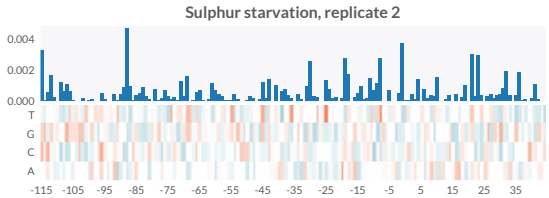
xylAp

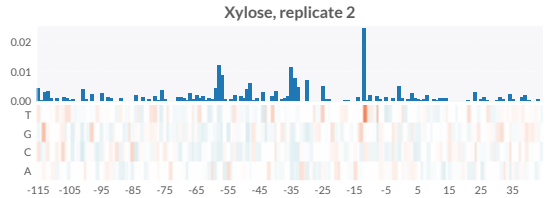

Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

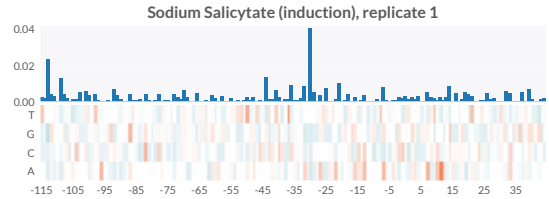
xylFp

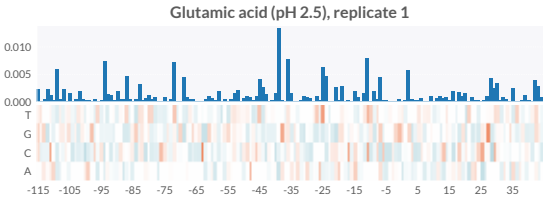

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

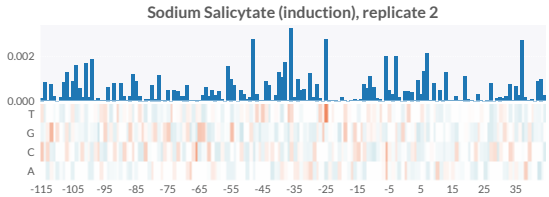
xylFp

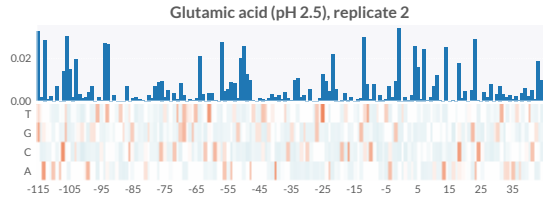

Sulphur starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

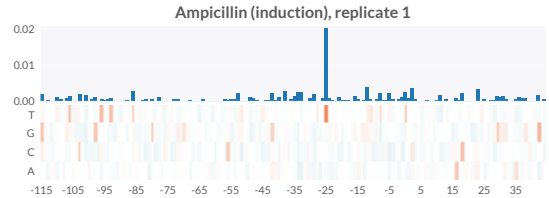

Xylose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

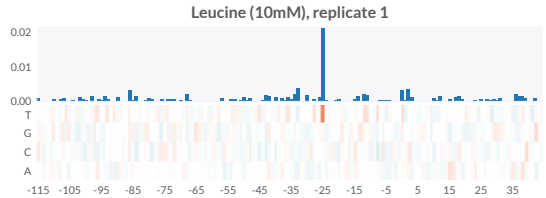

Sodium Salicytate (induction), replicate 1
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

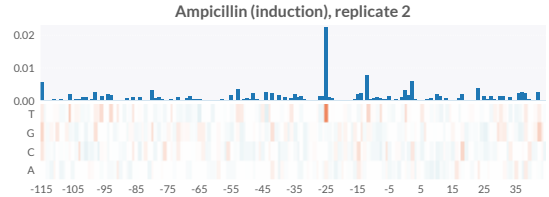

Glutamic acid (pH 2.5), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

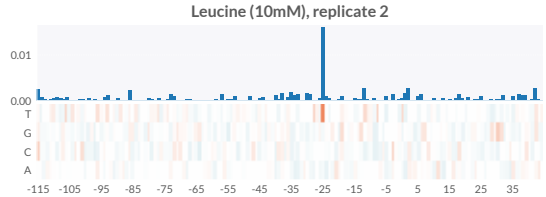

Sodium Salicytate (induction), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

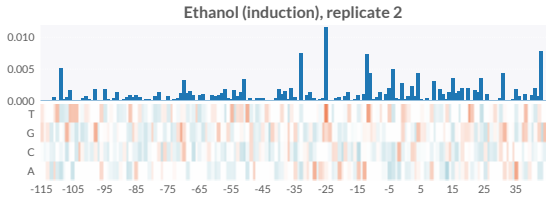

Glutamic acid (pH 2.5), replicate 2
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

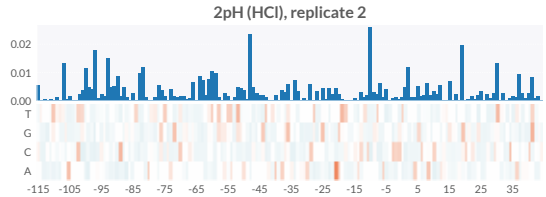

Ampicillin (induction), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

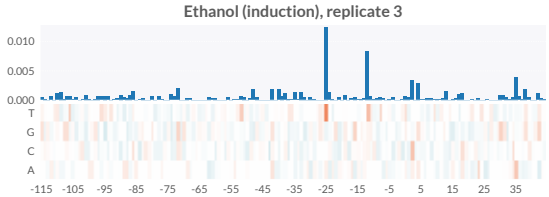

Leucine (10mM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

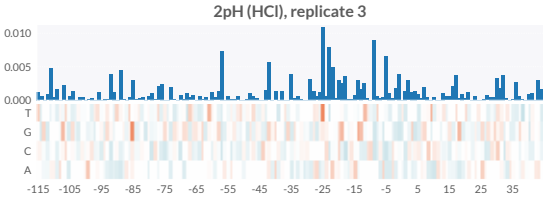

Ampicillin (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

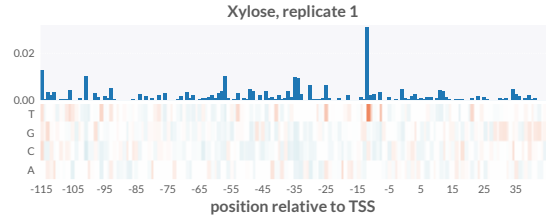

Leucine (10mM), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

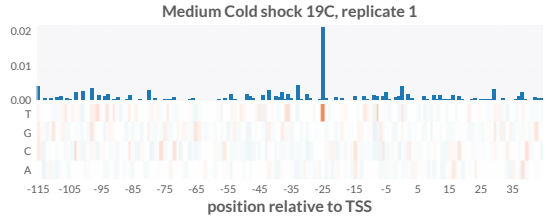

Ethanol (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

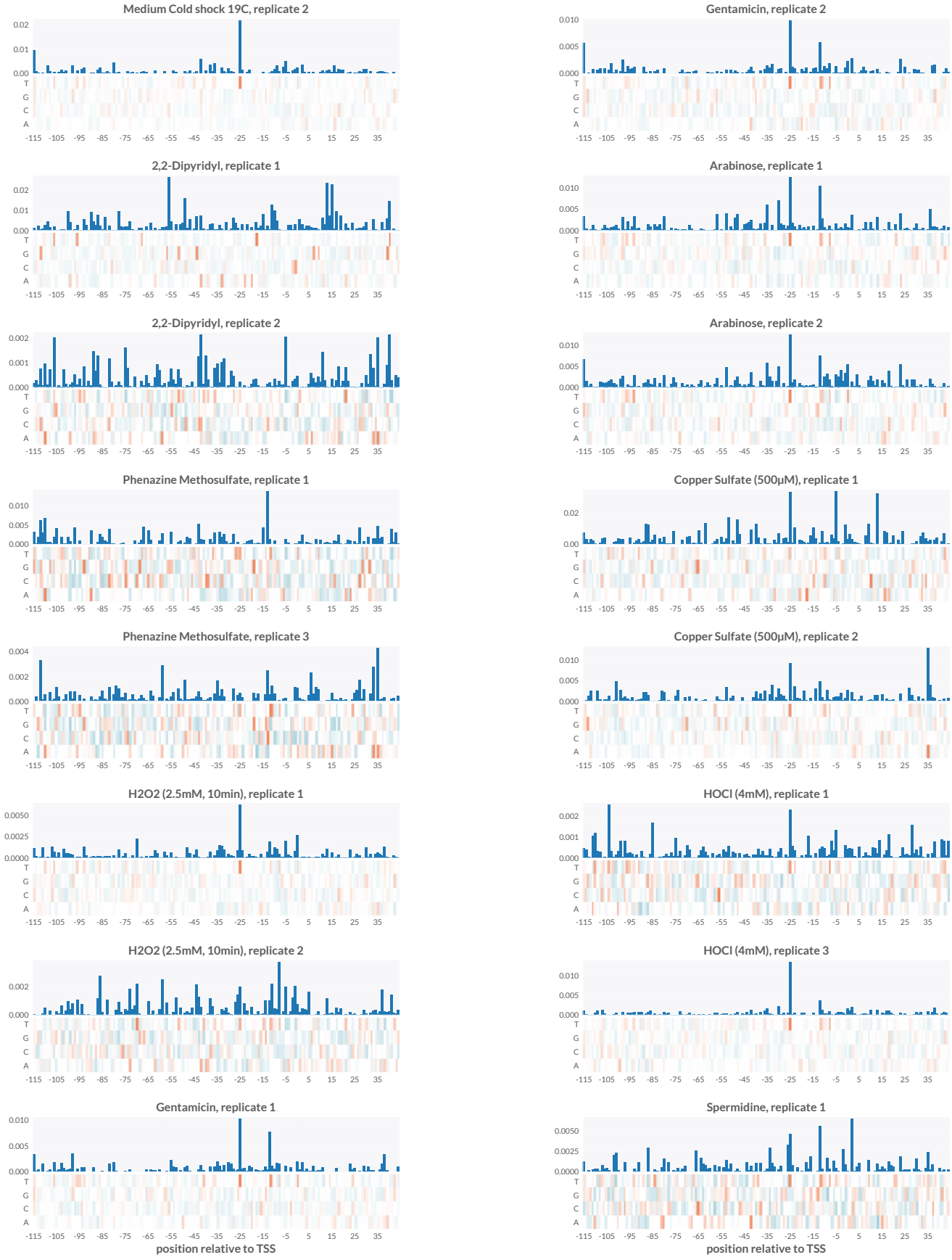

Ethanol (induction), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

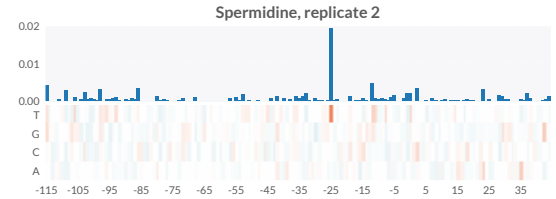

Xylose, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

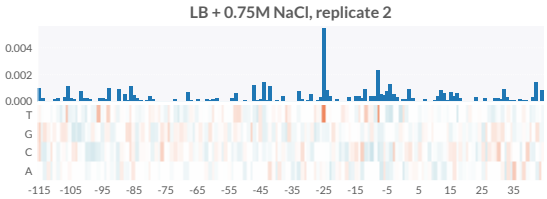

Medium Cold shock 19C, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

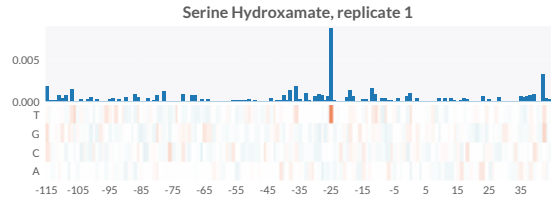
xylFp

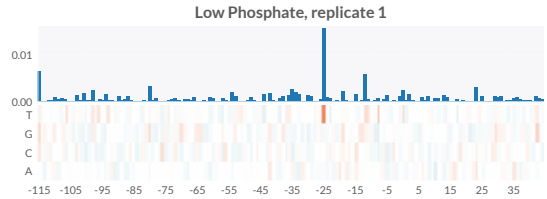

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

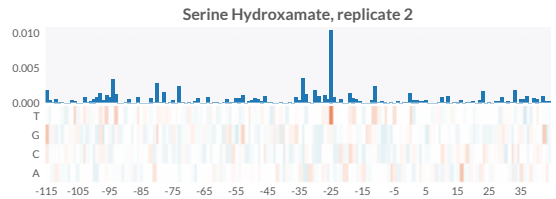
xylFp

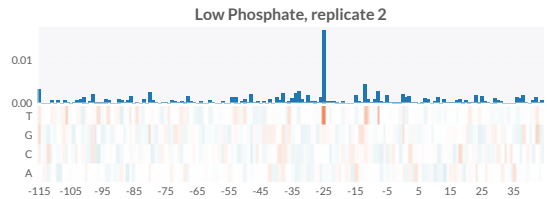

Spermidine, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

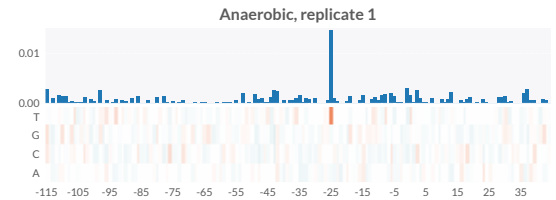

LB + 0.75M NaCl, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

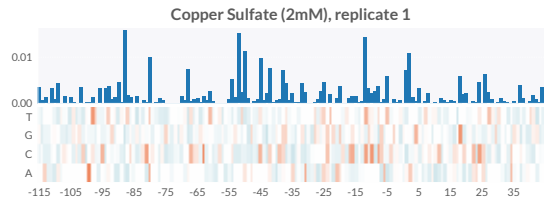

Serine Hydroxamate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

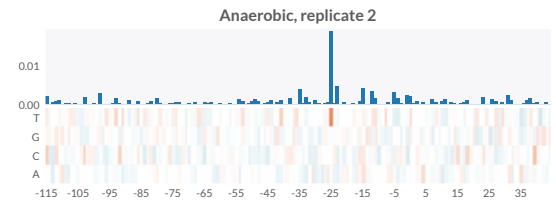

Low Phosphate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

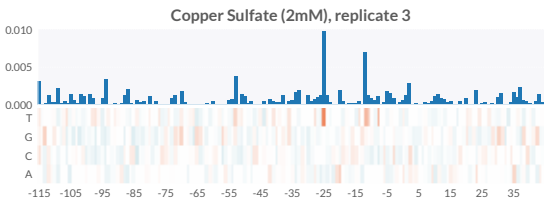

Serine Hydroxamate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

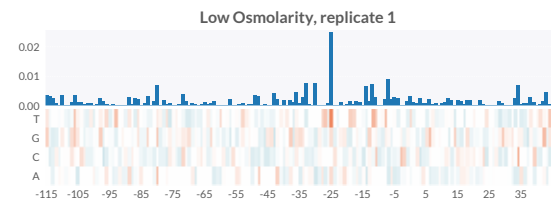

Low Phosphate, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

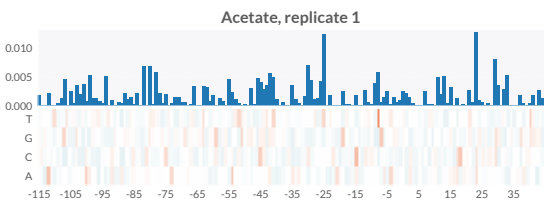

Anaerobic, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

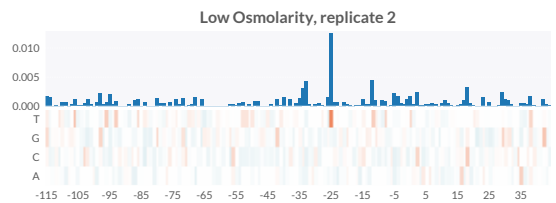

Copper Sulfate (2mM), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

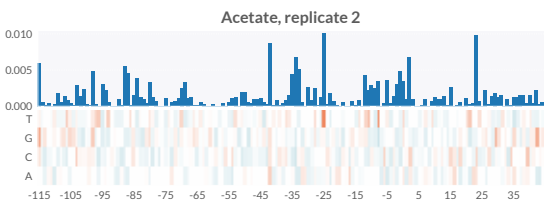

Anaerobic, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

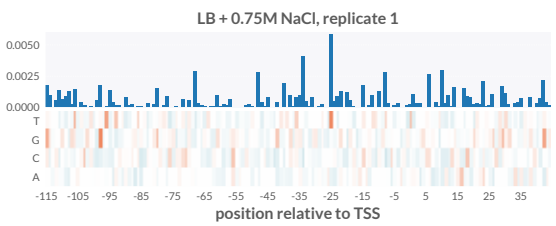

Copper Sulfate (2mM), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

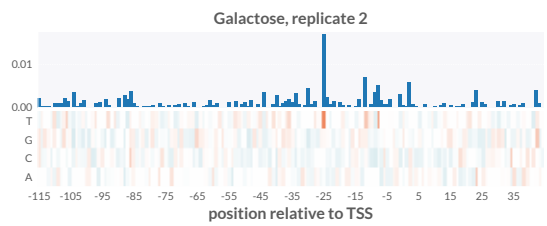

Low Osmolarity, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

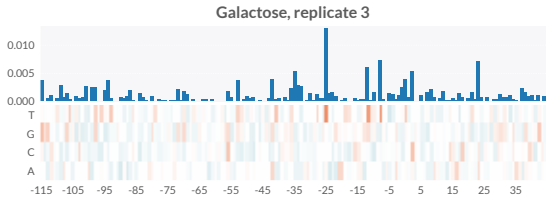

Low Osmolarity, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

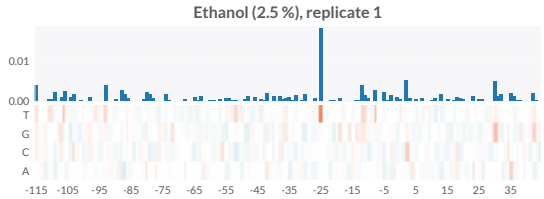

Acetate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

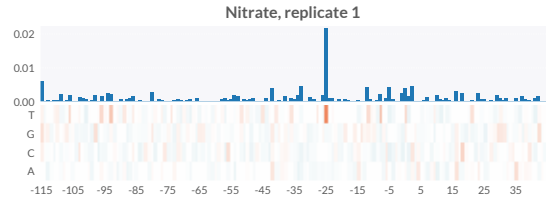

LB + 0.75M NaCl, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

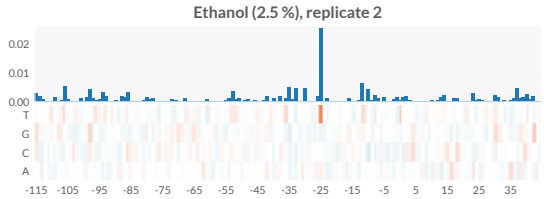

Galactose, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

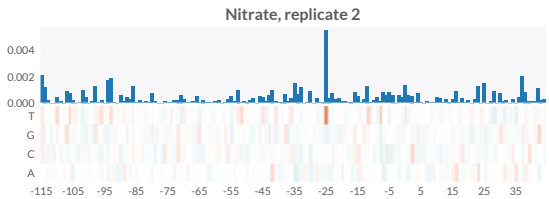
xylFp

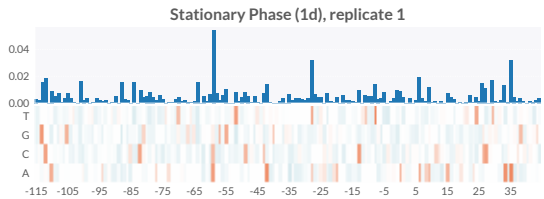

Galactose, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

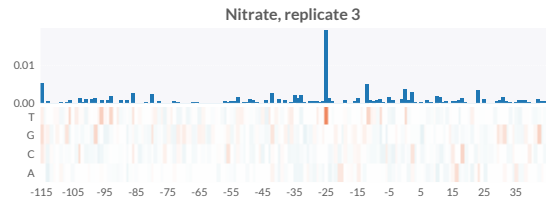

Ethanol (2.5 %), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

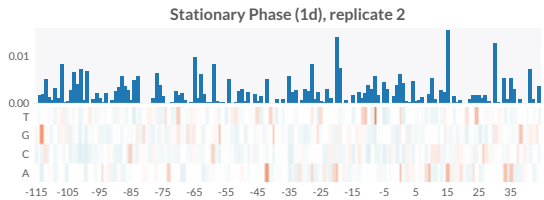

Nitrate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

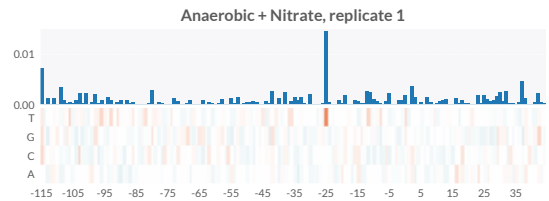

Ethanol (2.5 %), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

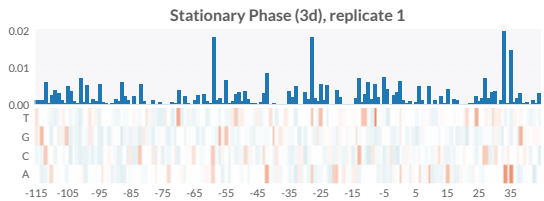

Nitrate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

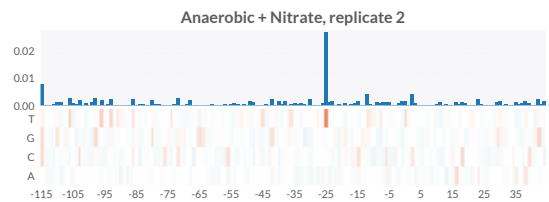

Stationary Phase (1d), replicate 1
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

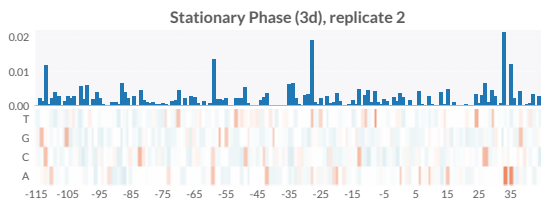

Nitrate, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

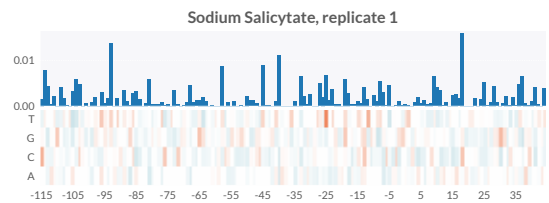

Stationary Phase (1d), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

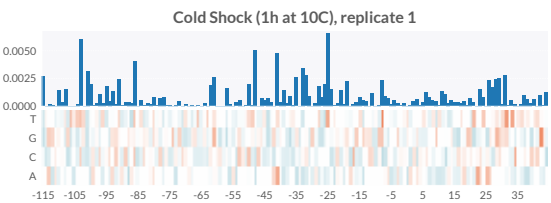

Anaerobic + Nitrate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

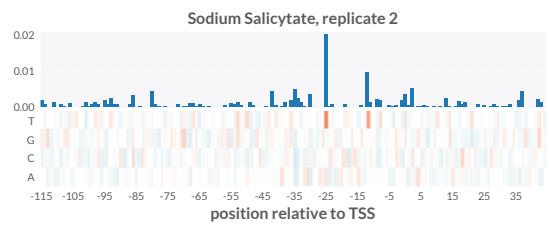

Stationary Phase (3d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

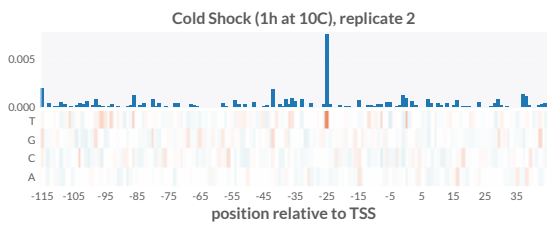

Anaerobic + Nitrate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

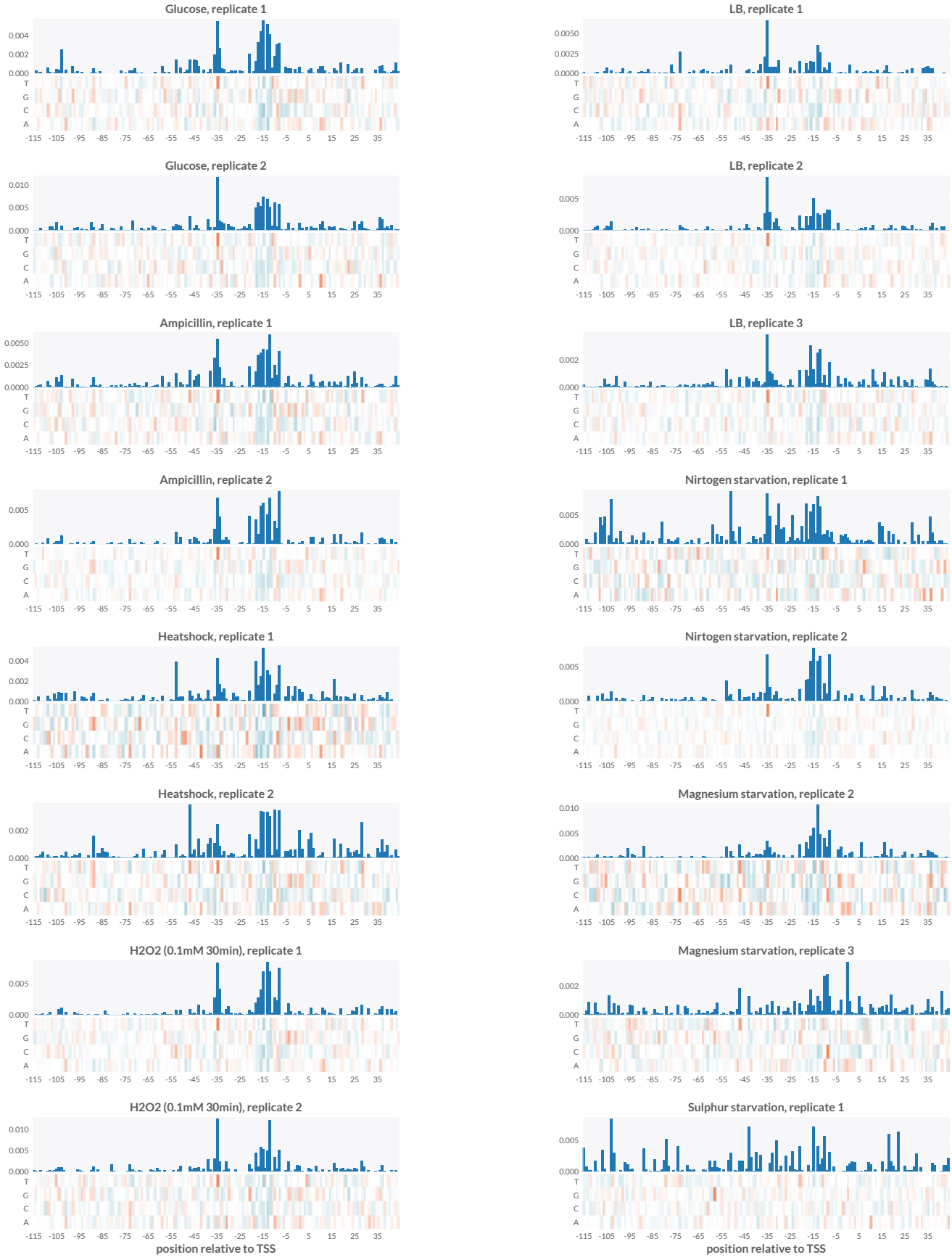

Sodium Salicytate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

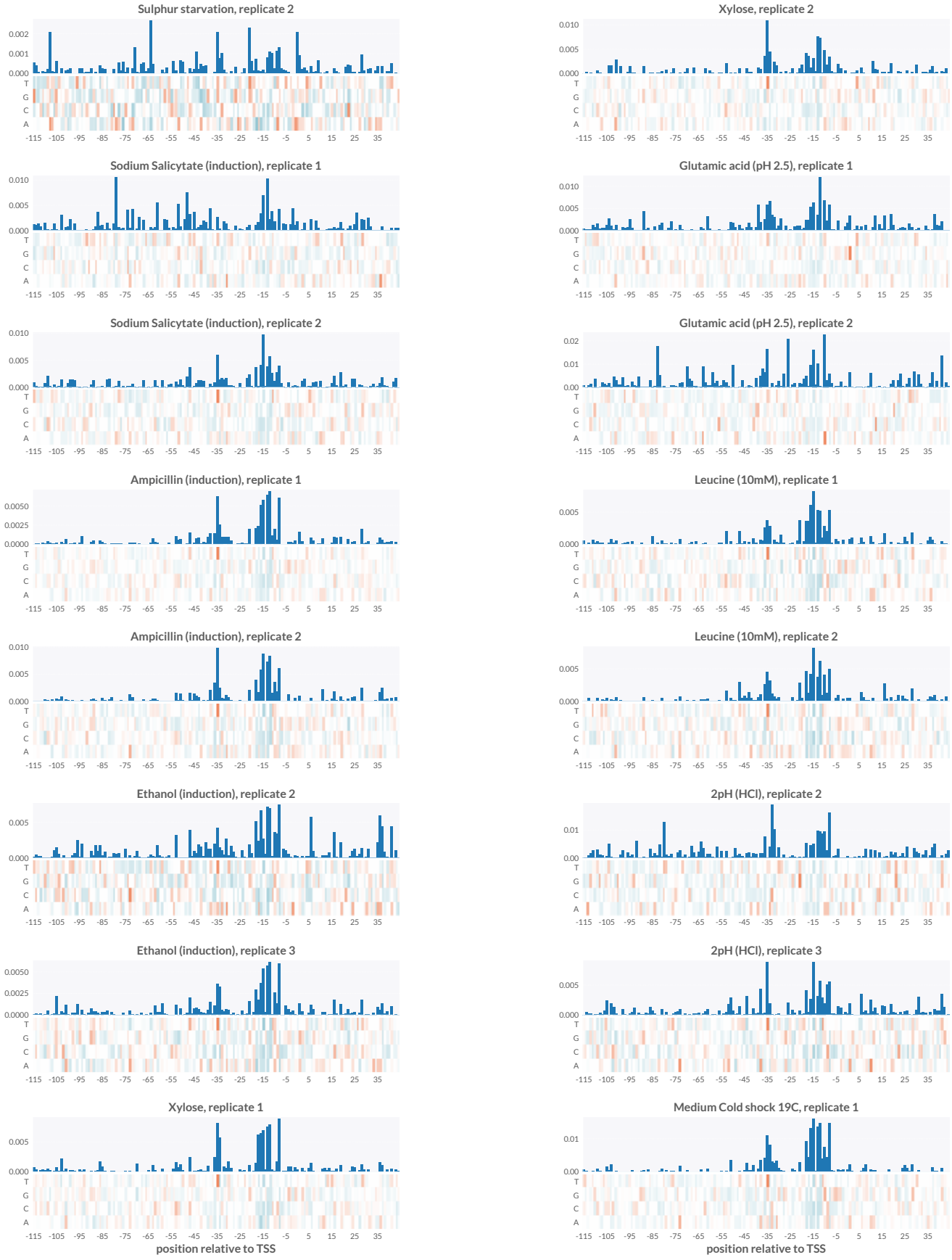

Sodium Salicytate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

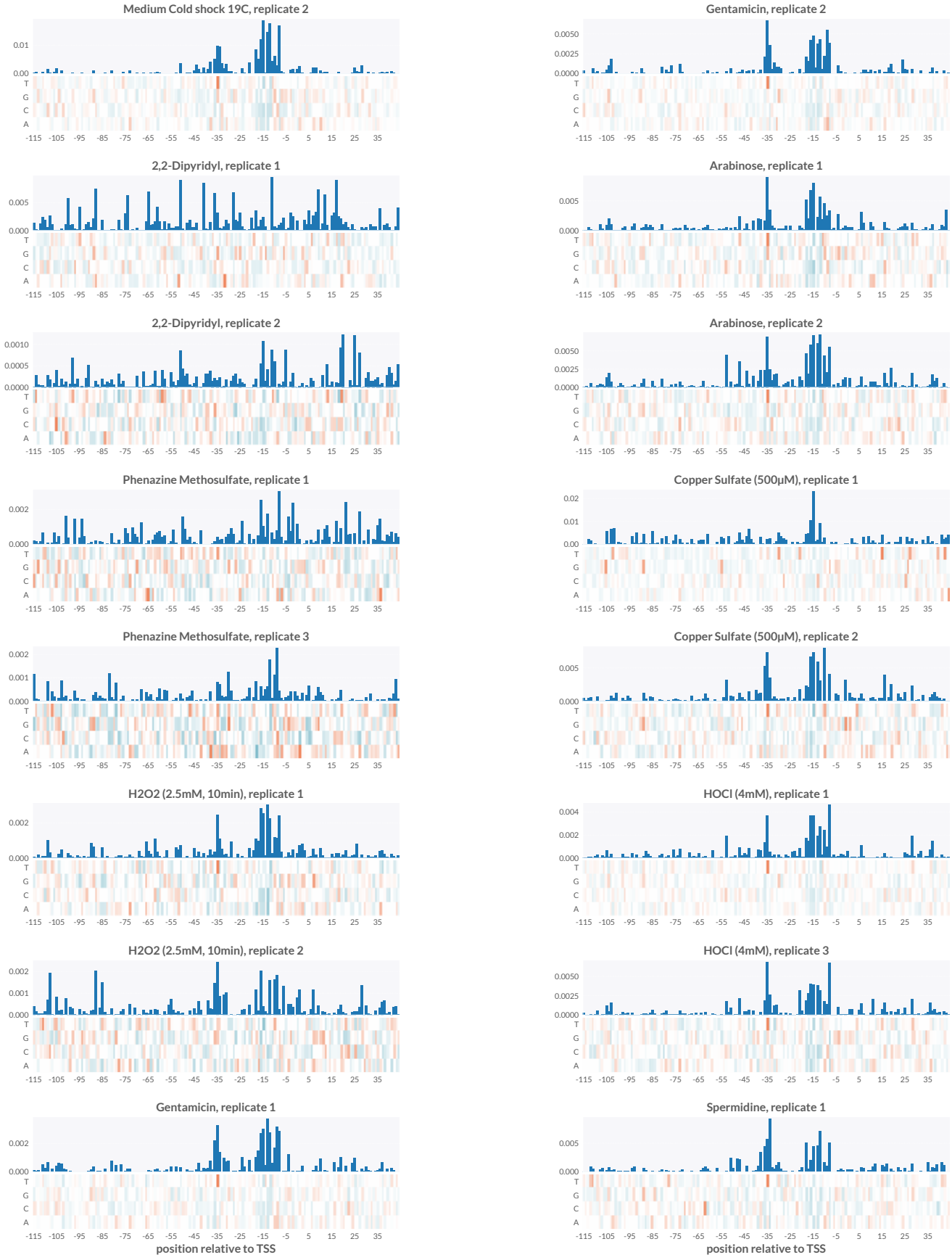
yacCp


Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

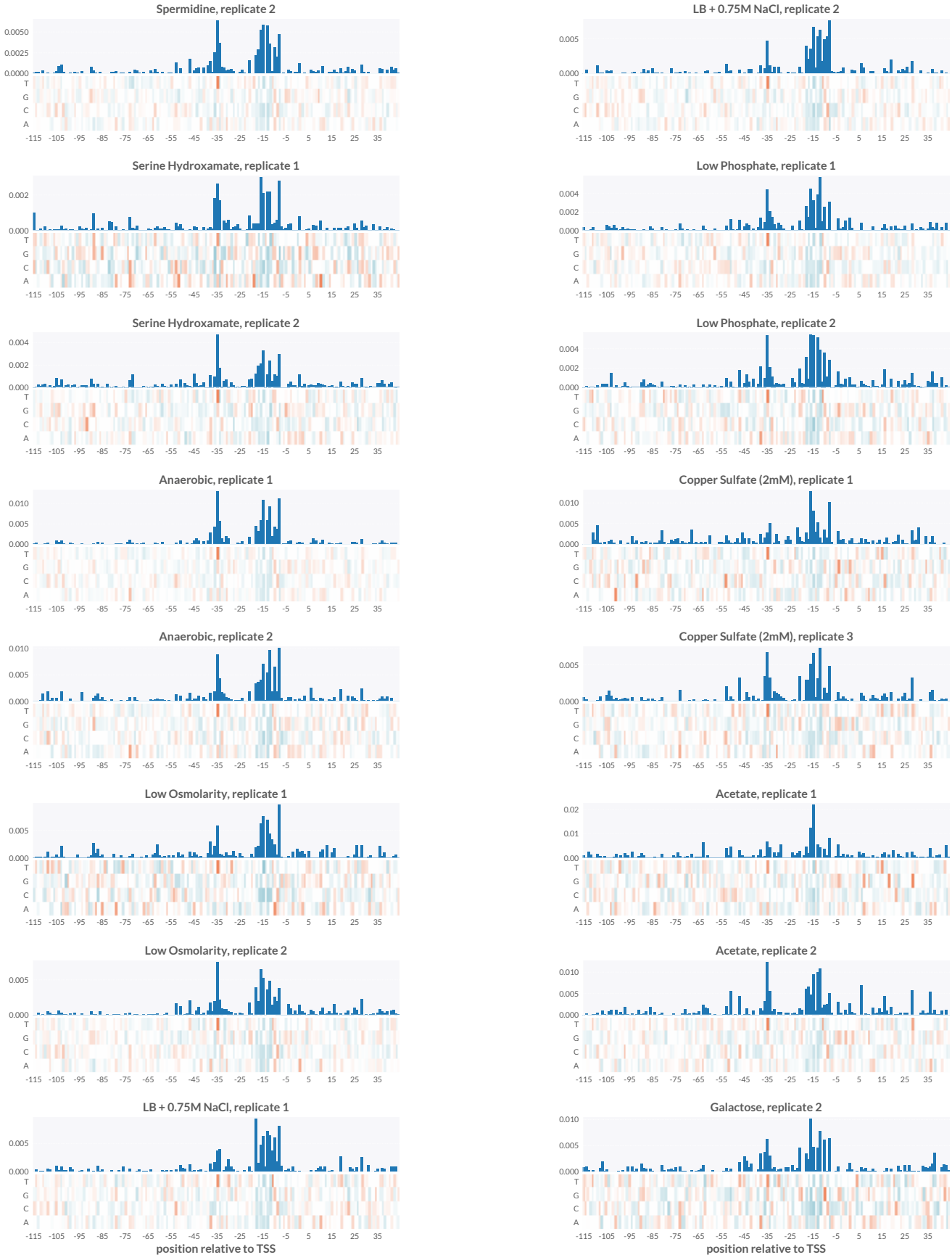
yacCp


Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

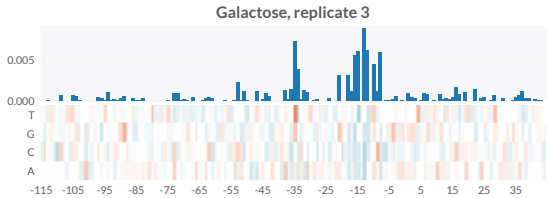
yacCp

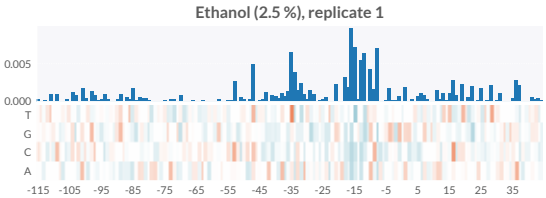

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

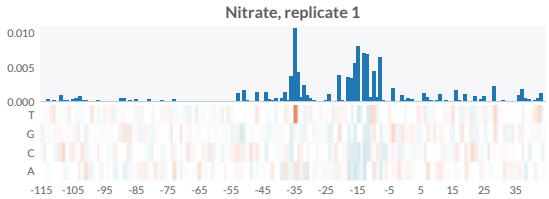
yacCp

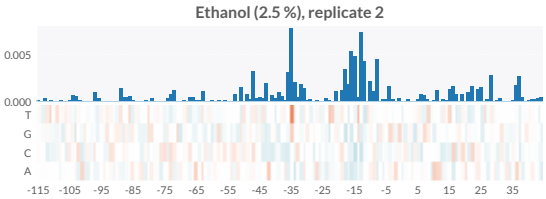

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

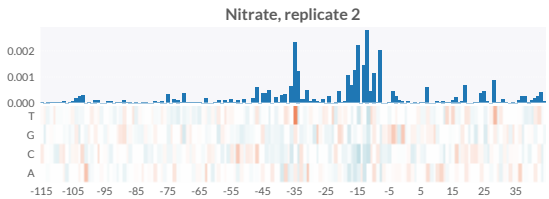
yacCp

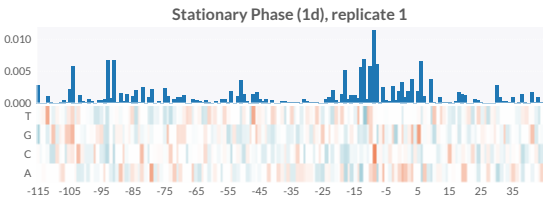

Galactose, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

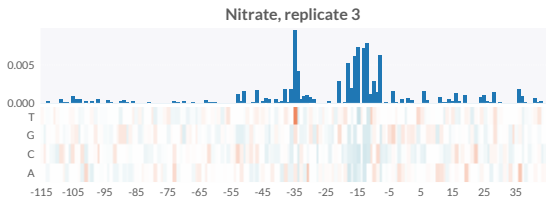

Ethanol (2.5 %), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

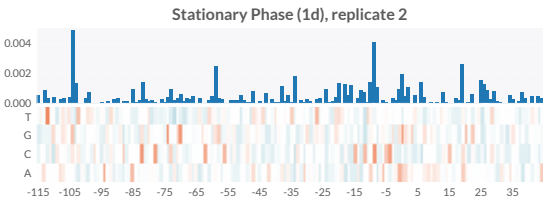

Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

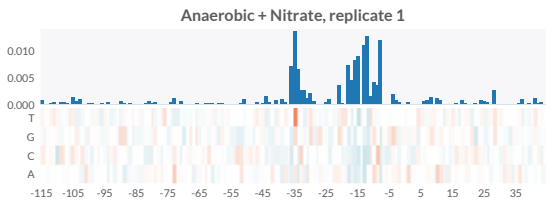

Ethanol (2.5 %), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

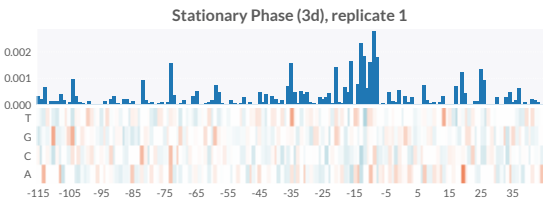

Nitrate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

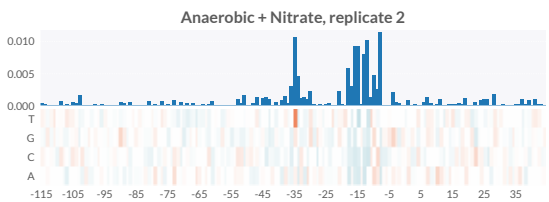

Stationary Phase (1d), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

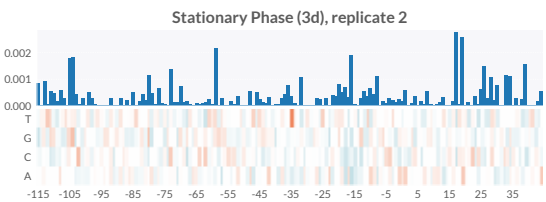

Nitrate, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

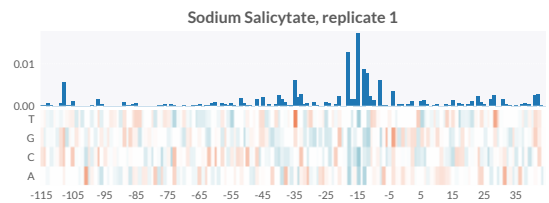

Stationary Phase (1d), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

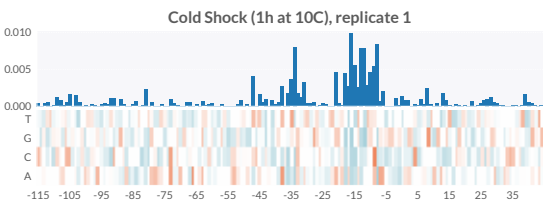

Anaerobic + Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

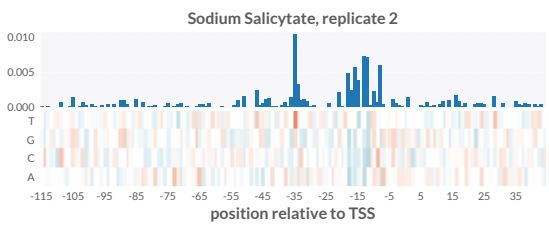

Stationary Phase (3d), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

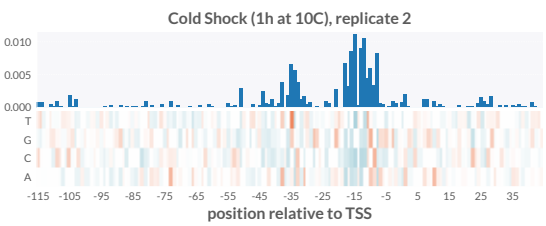

Anaerobic + Nitrate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

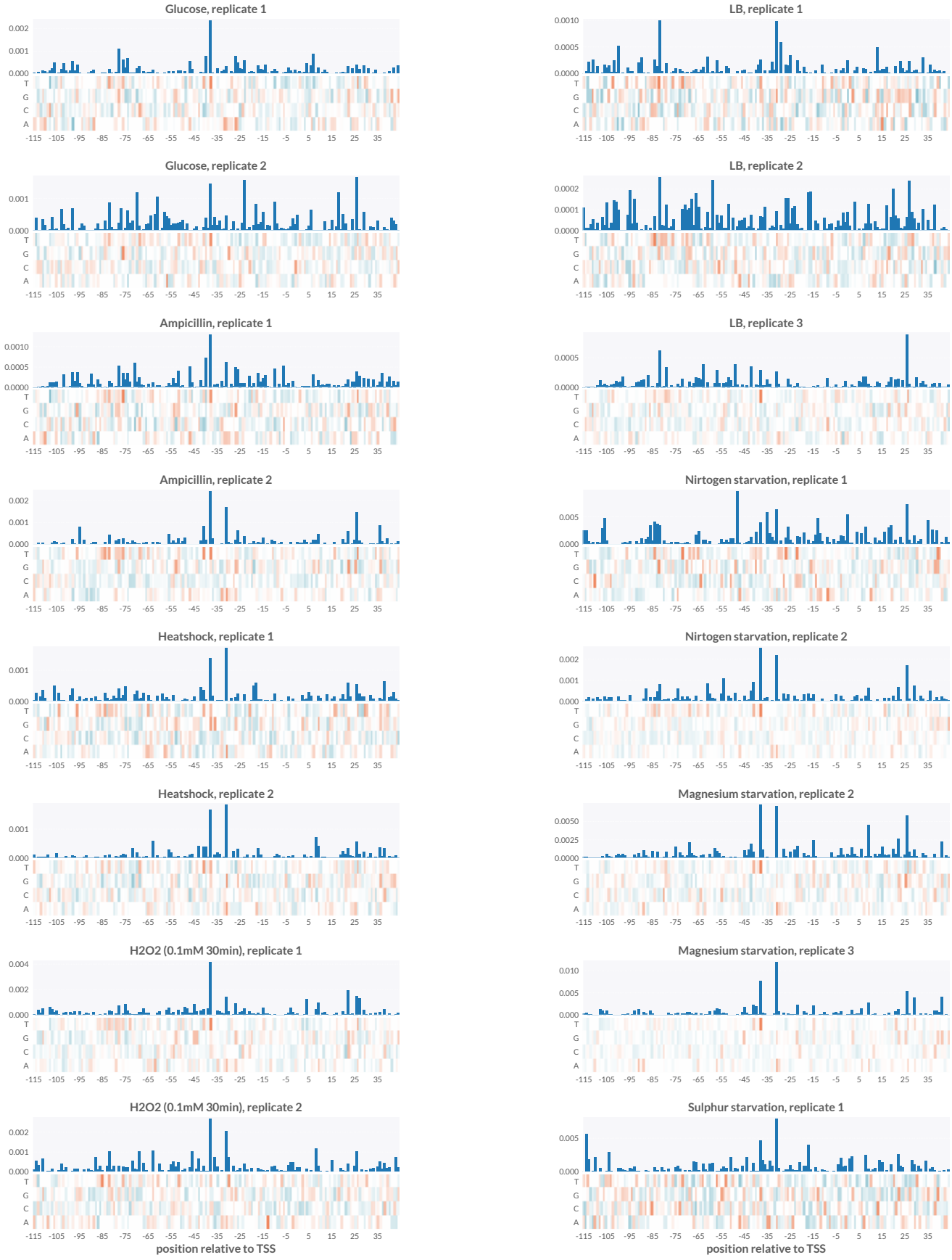

Sodium Salicytate, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

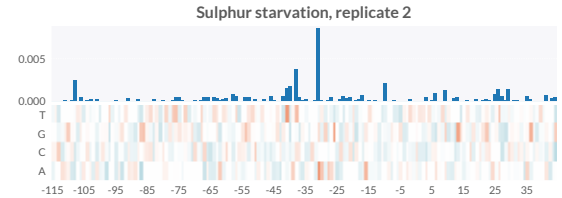

Sodium Salicytate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

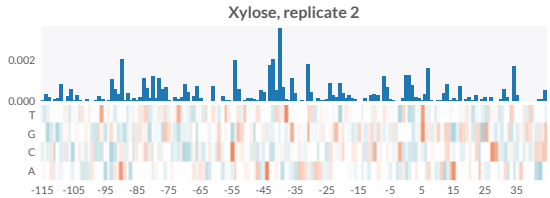

Cold Shock (1h at 10C), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

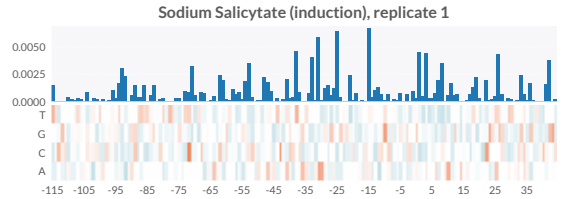
yacH_predicted

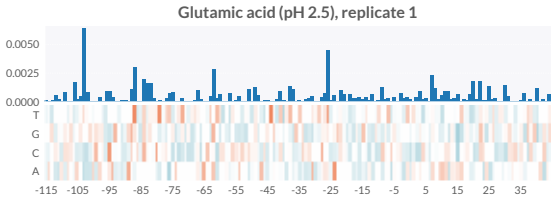


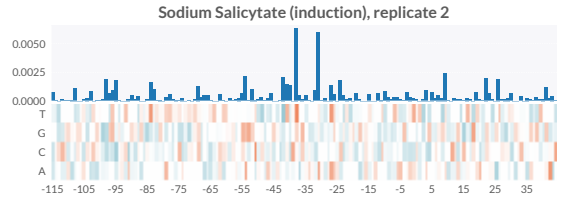
yacH_predicted

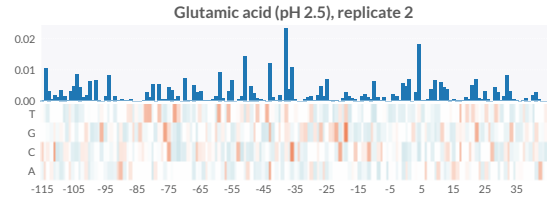


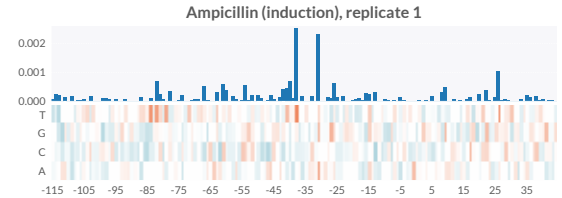


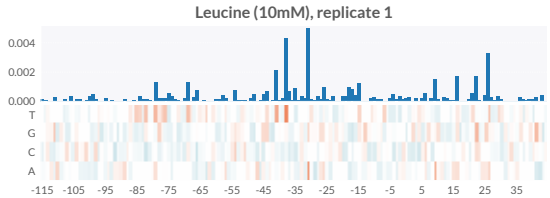


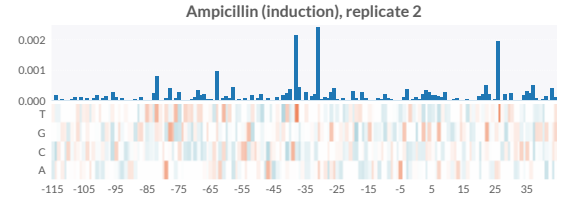


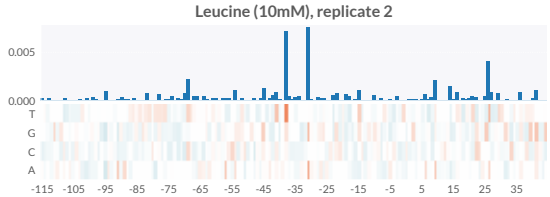


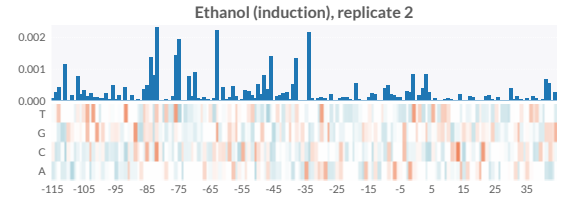


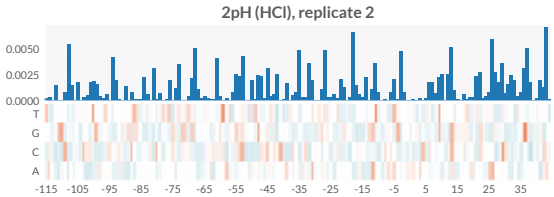


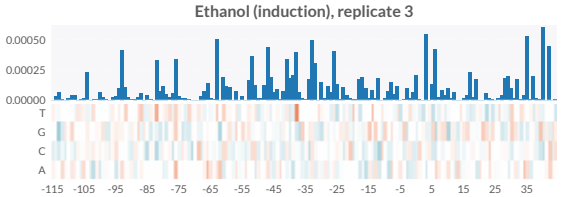


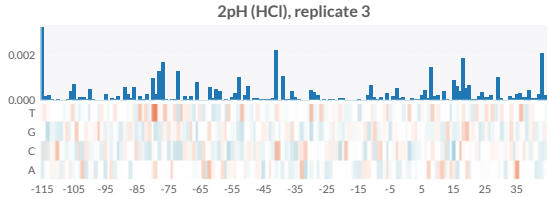


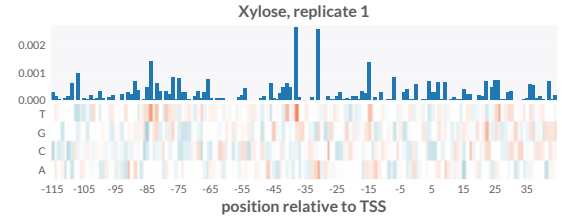


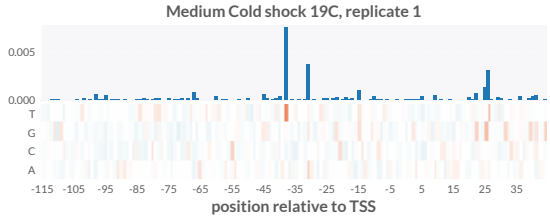




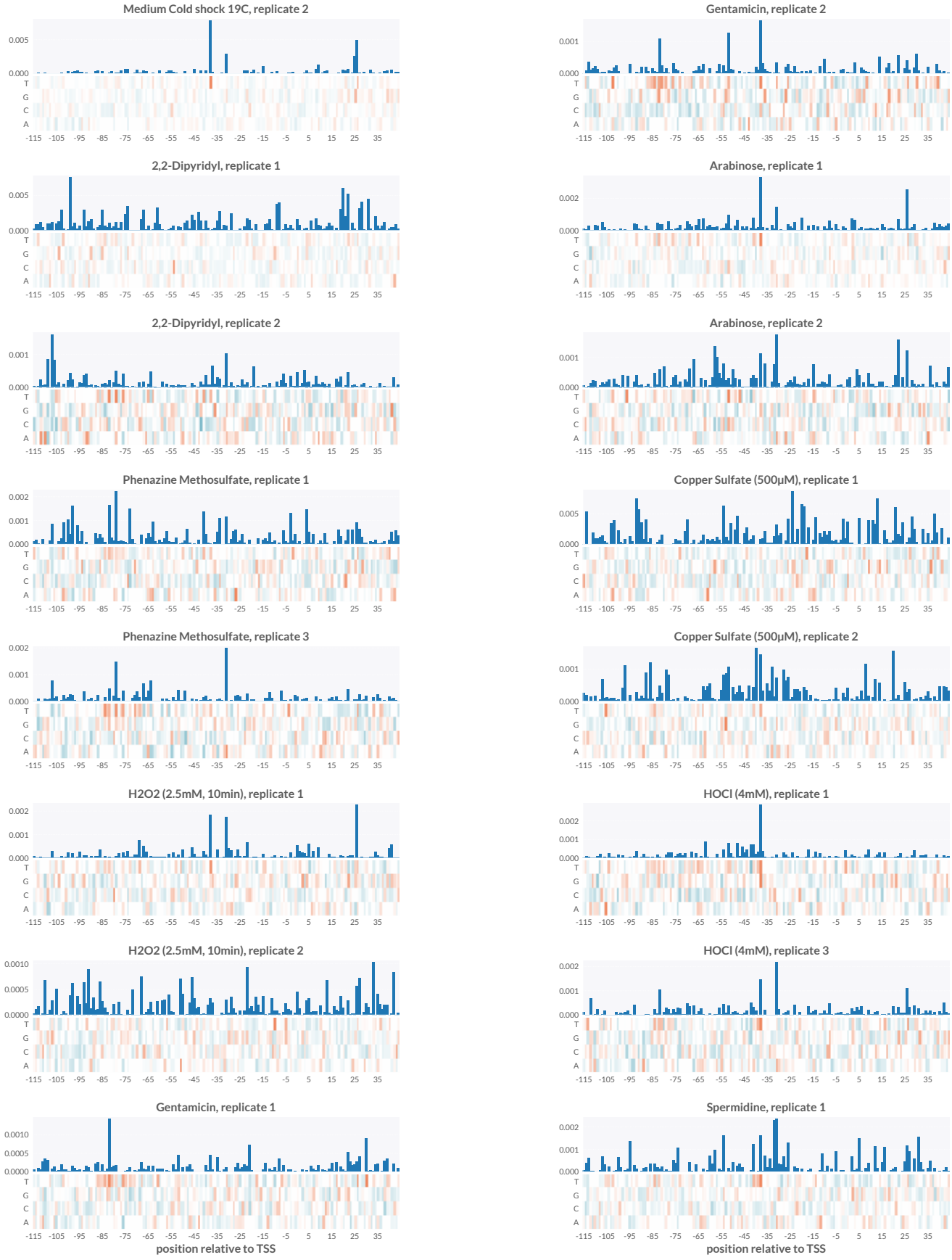




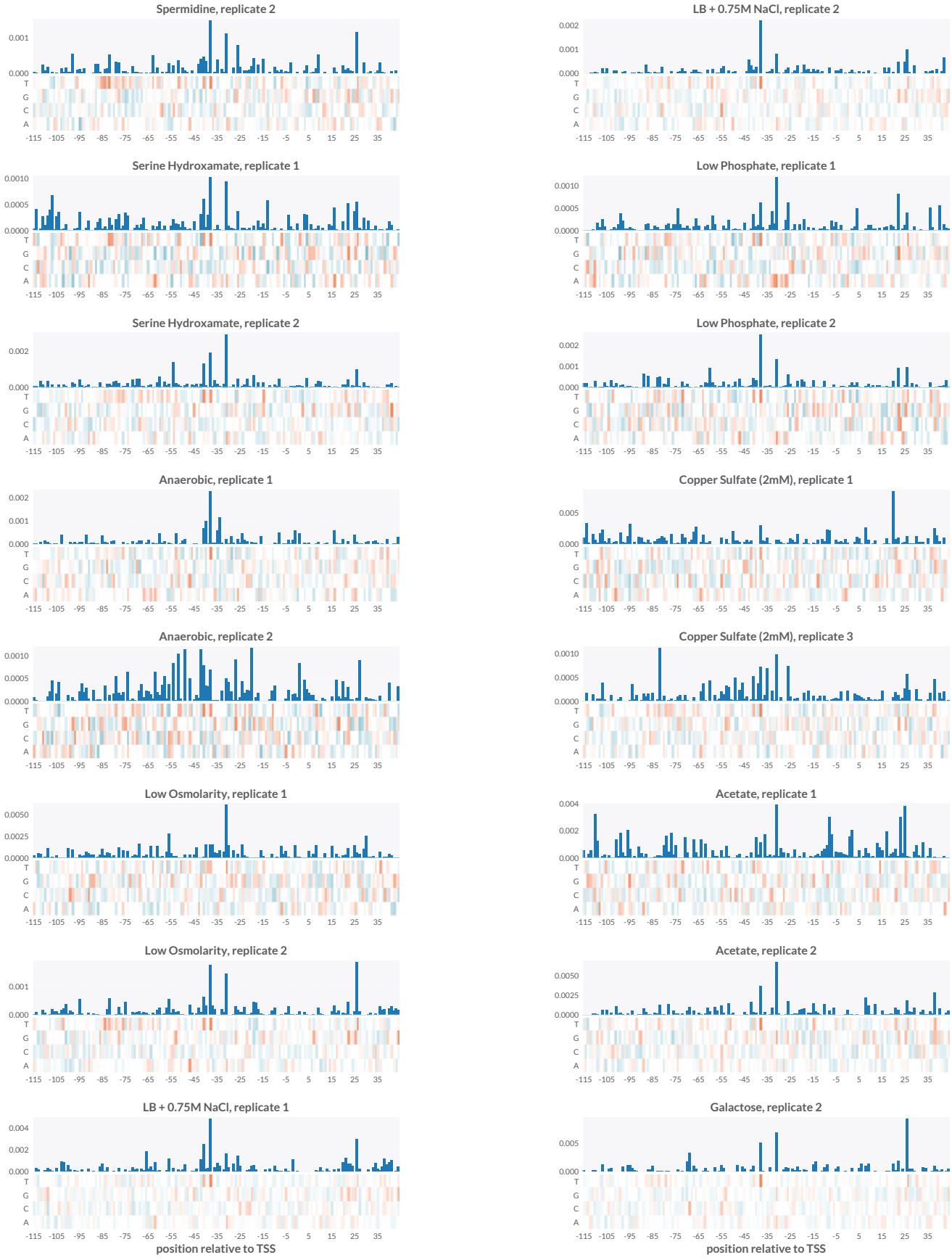




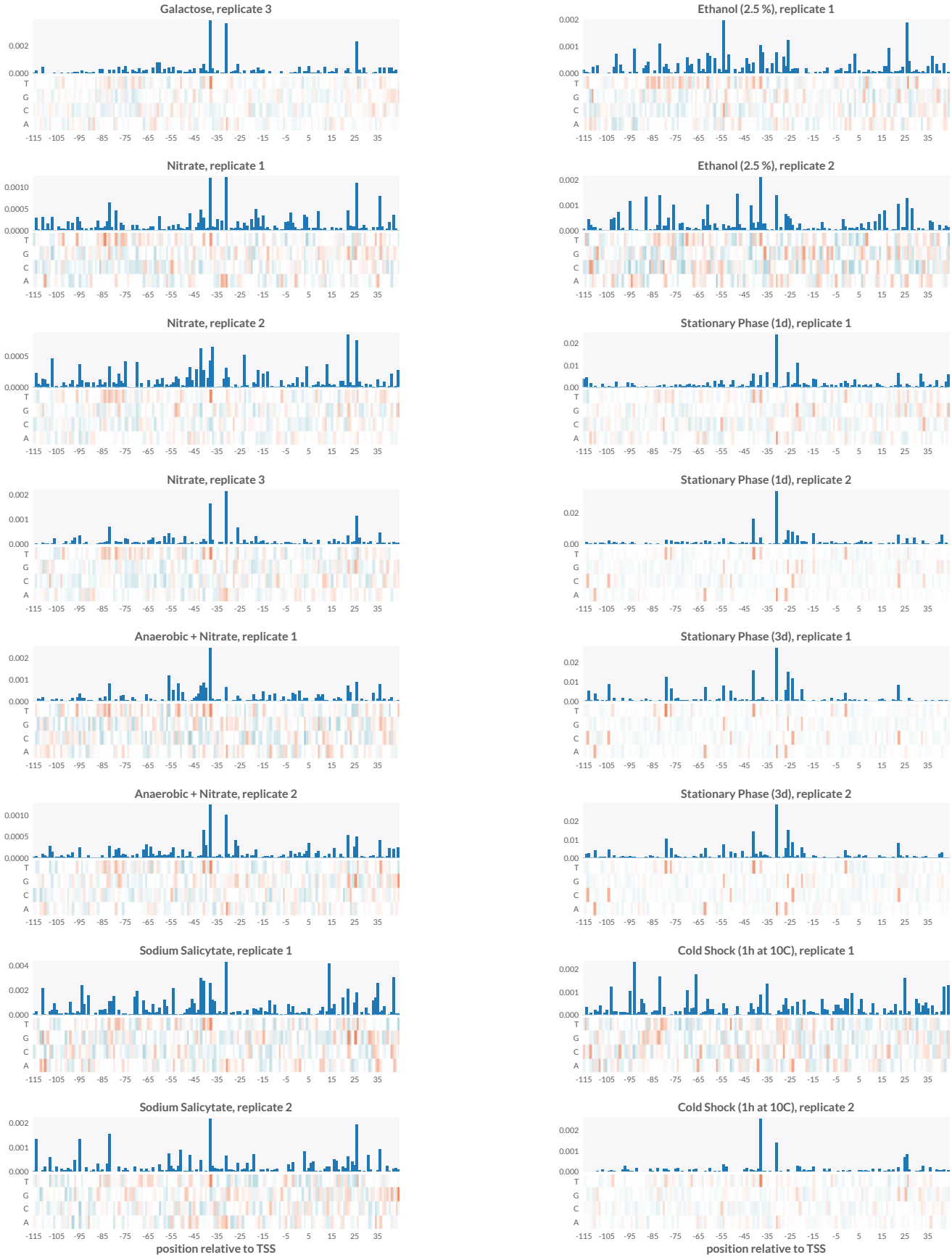
yacH_predicted



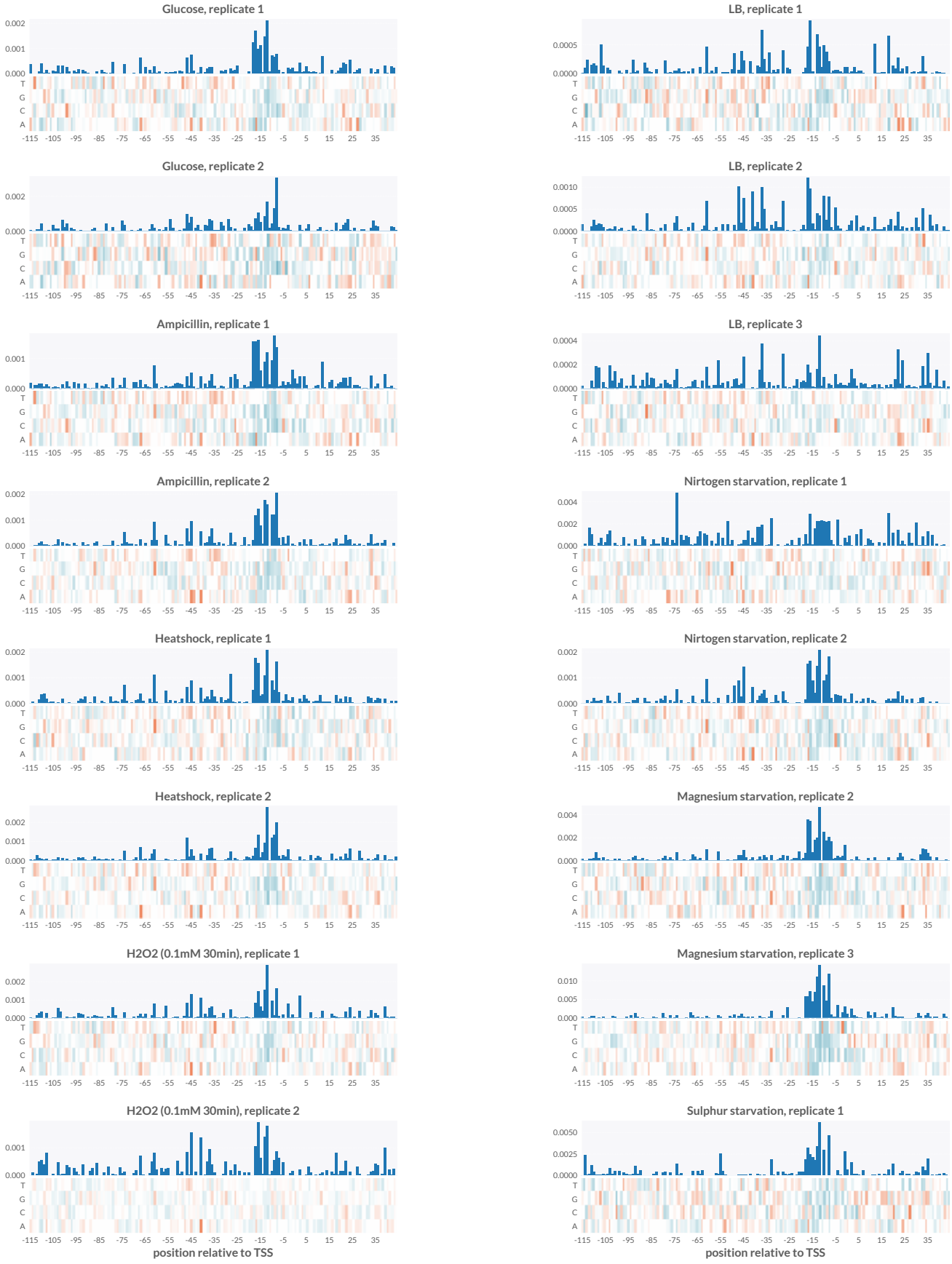
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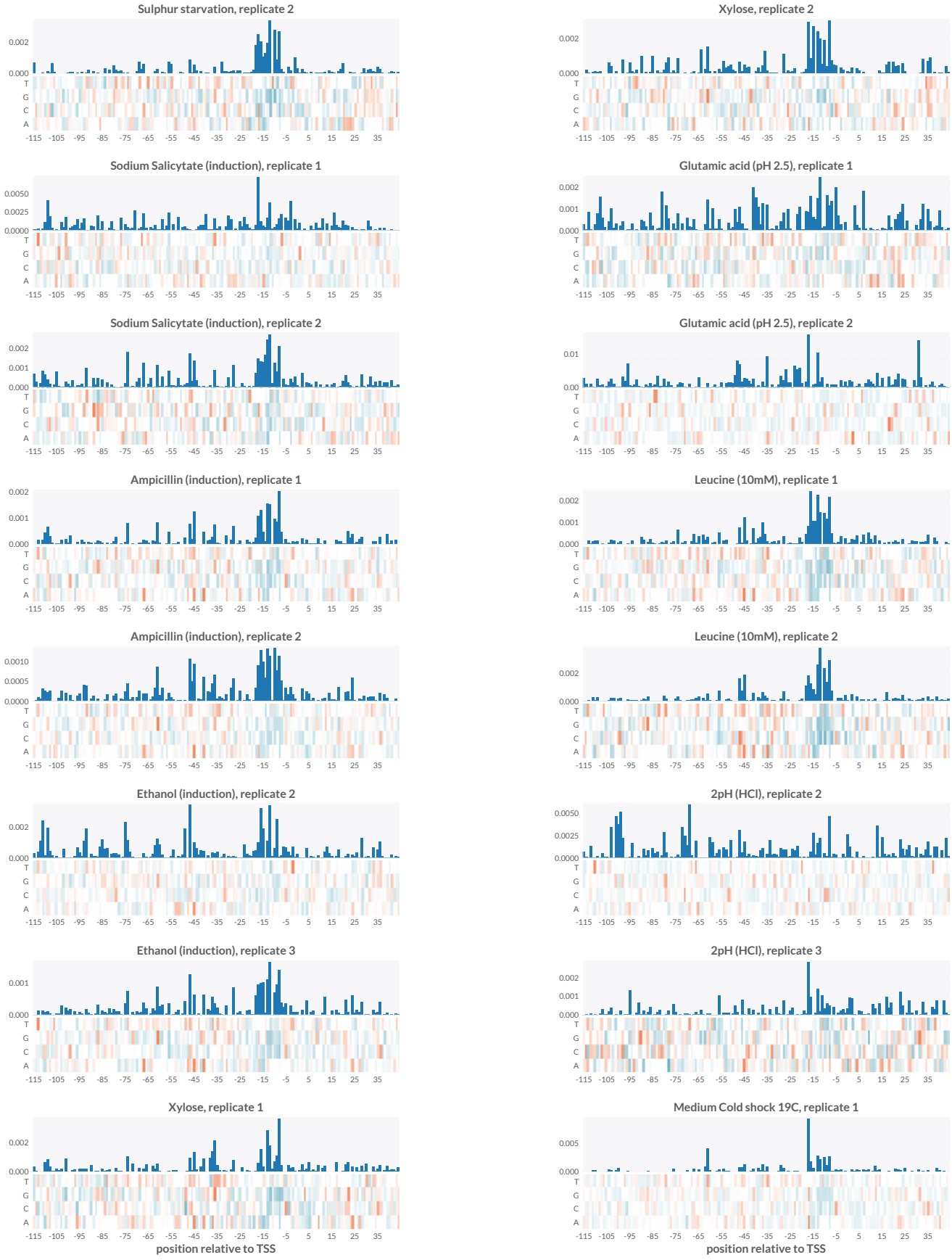
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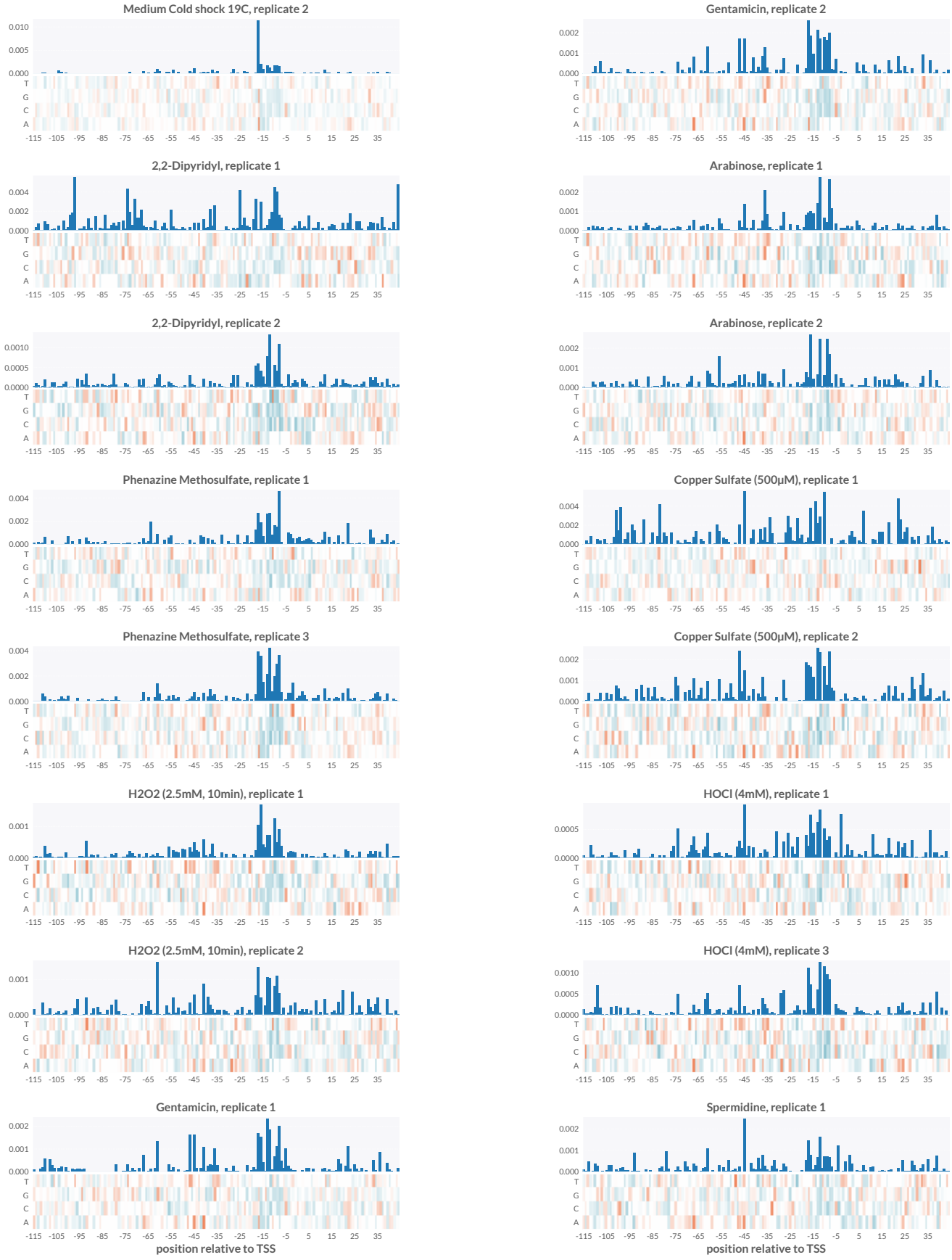
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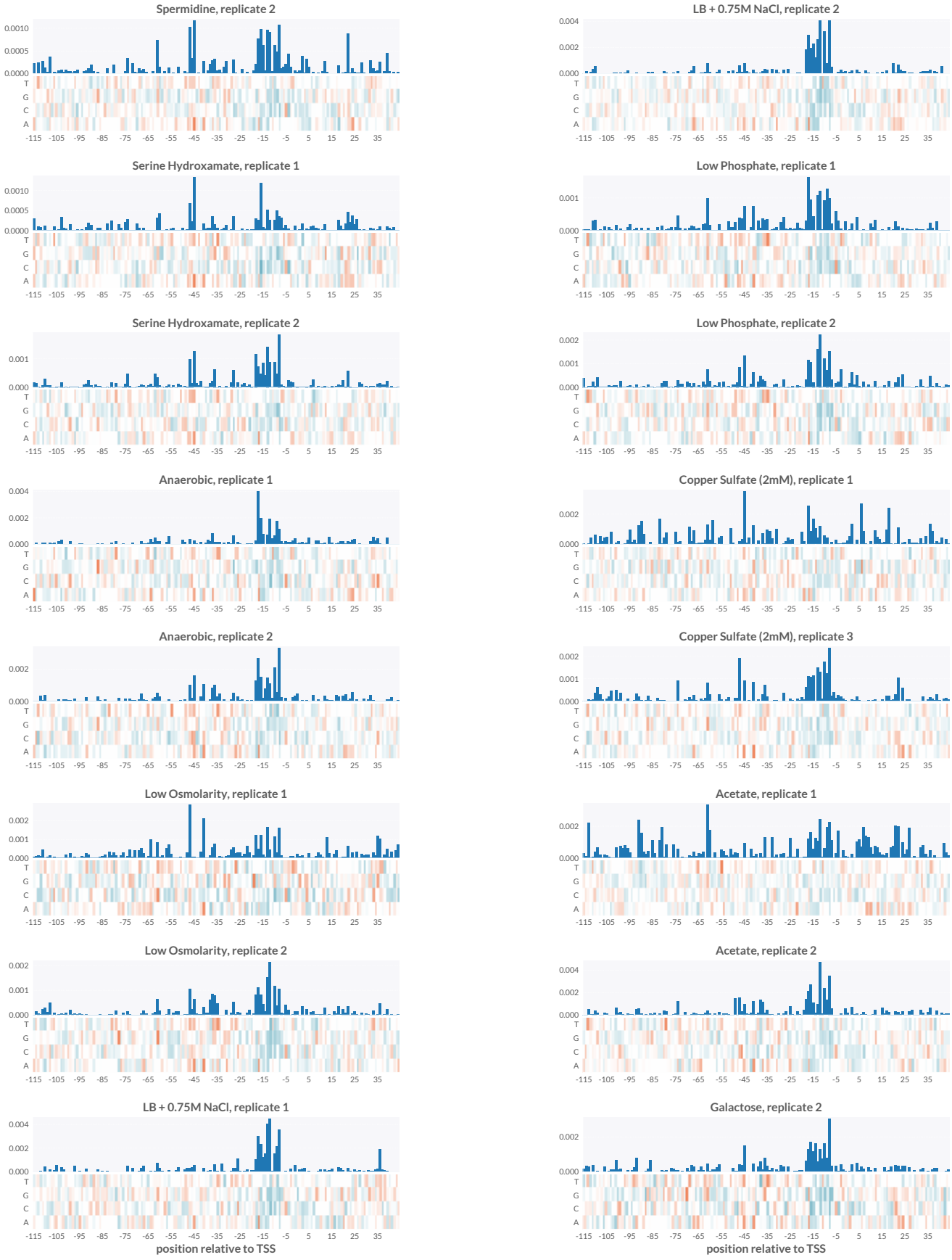
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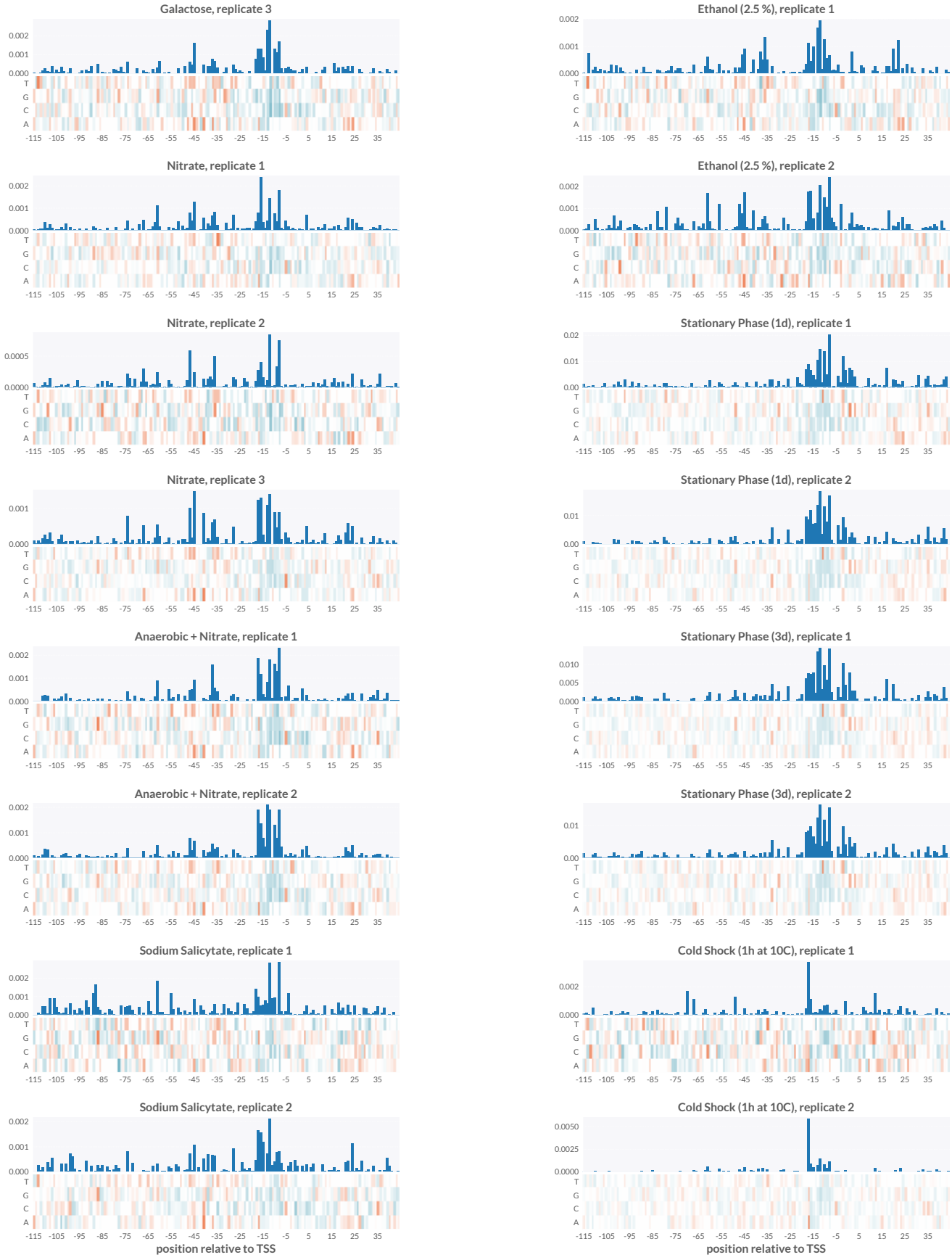
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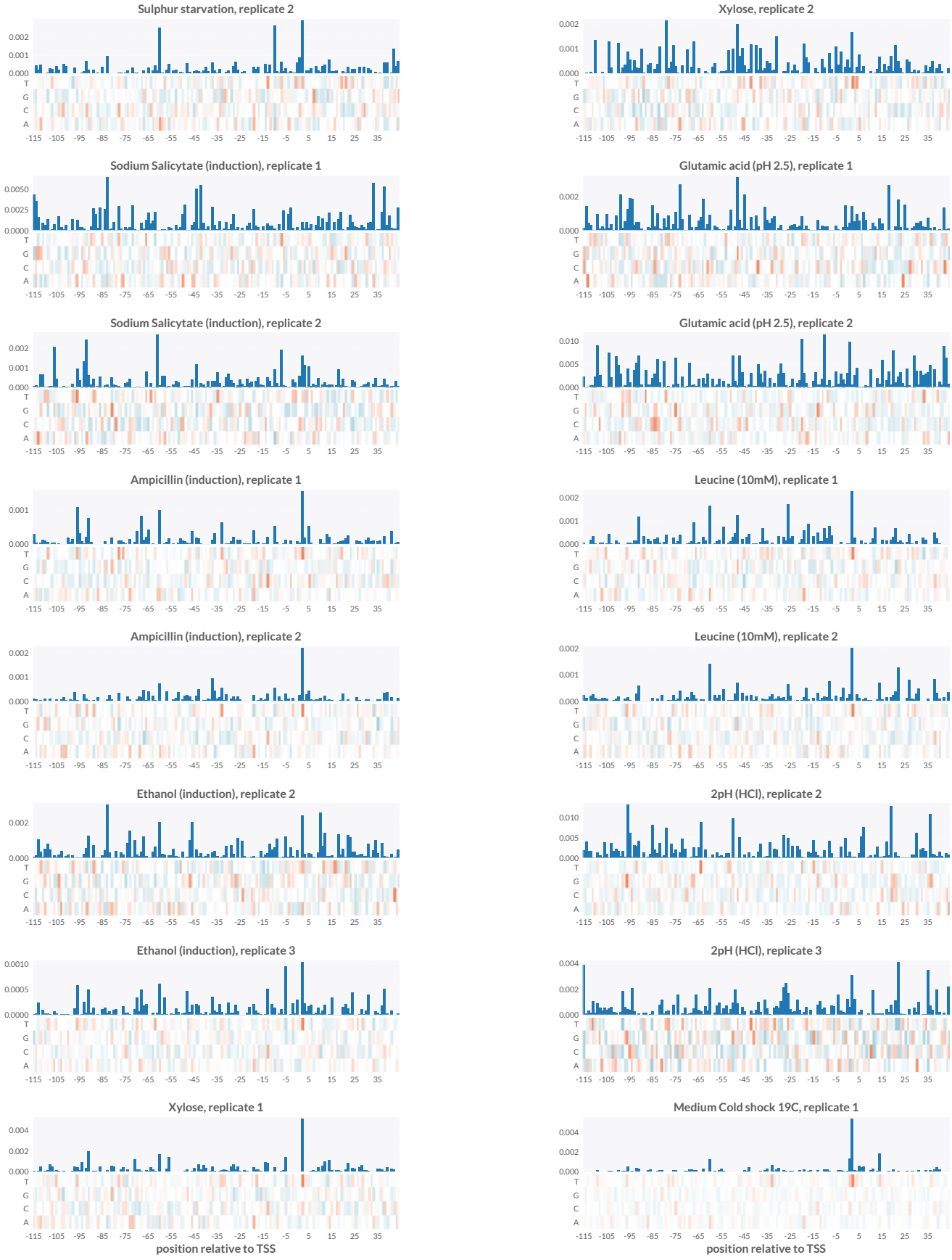
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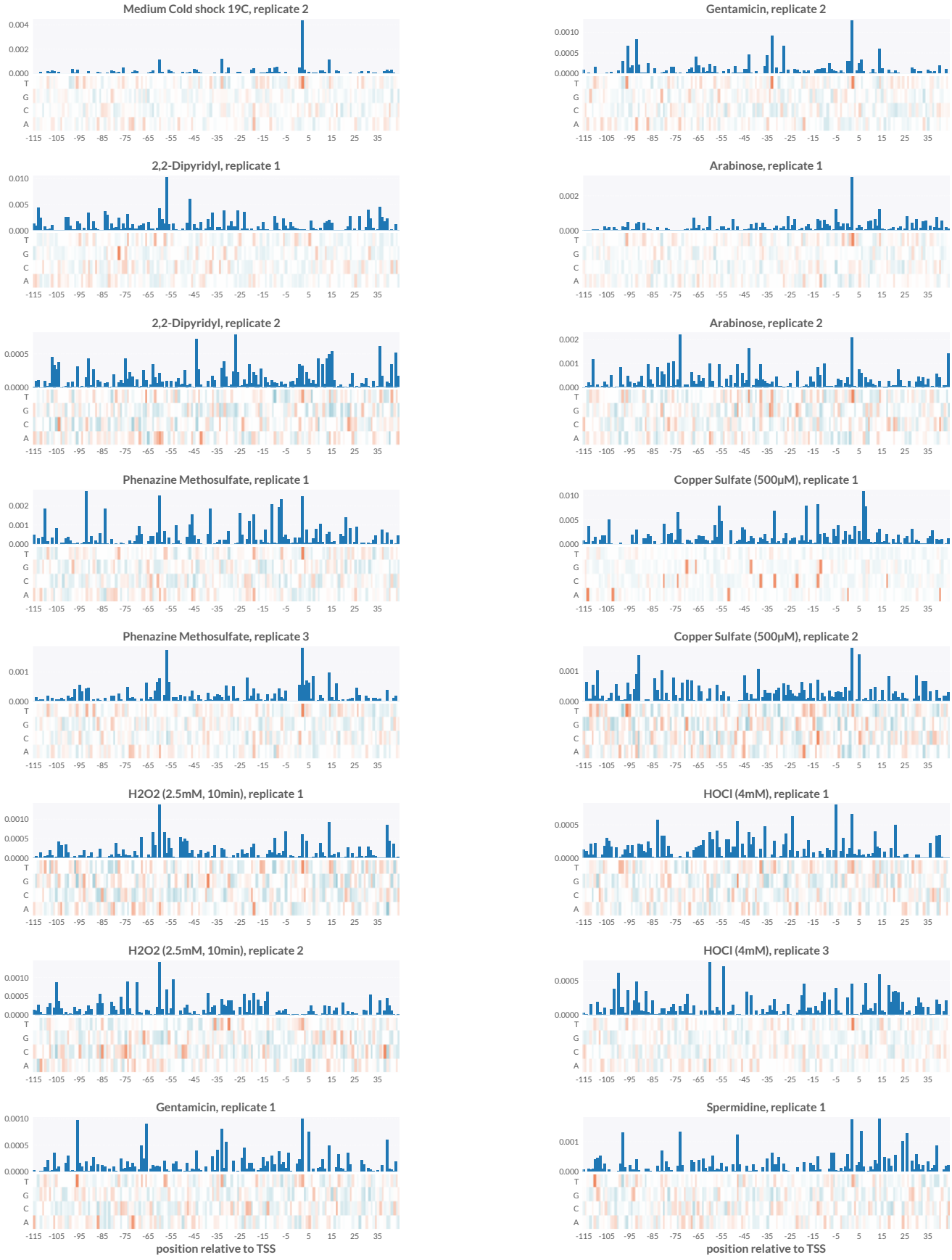
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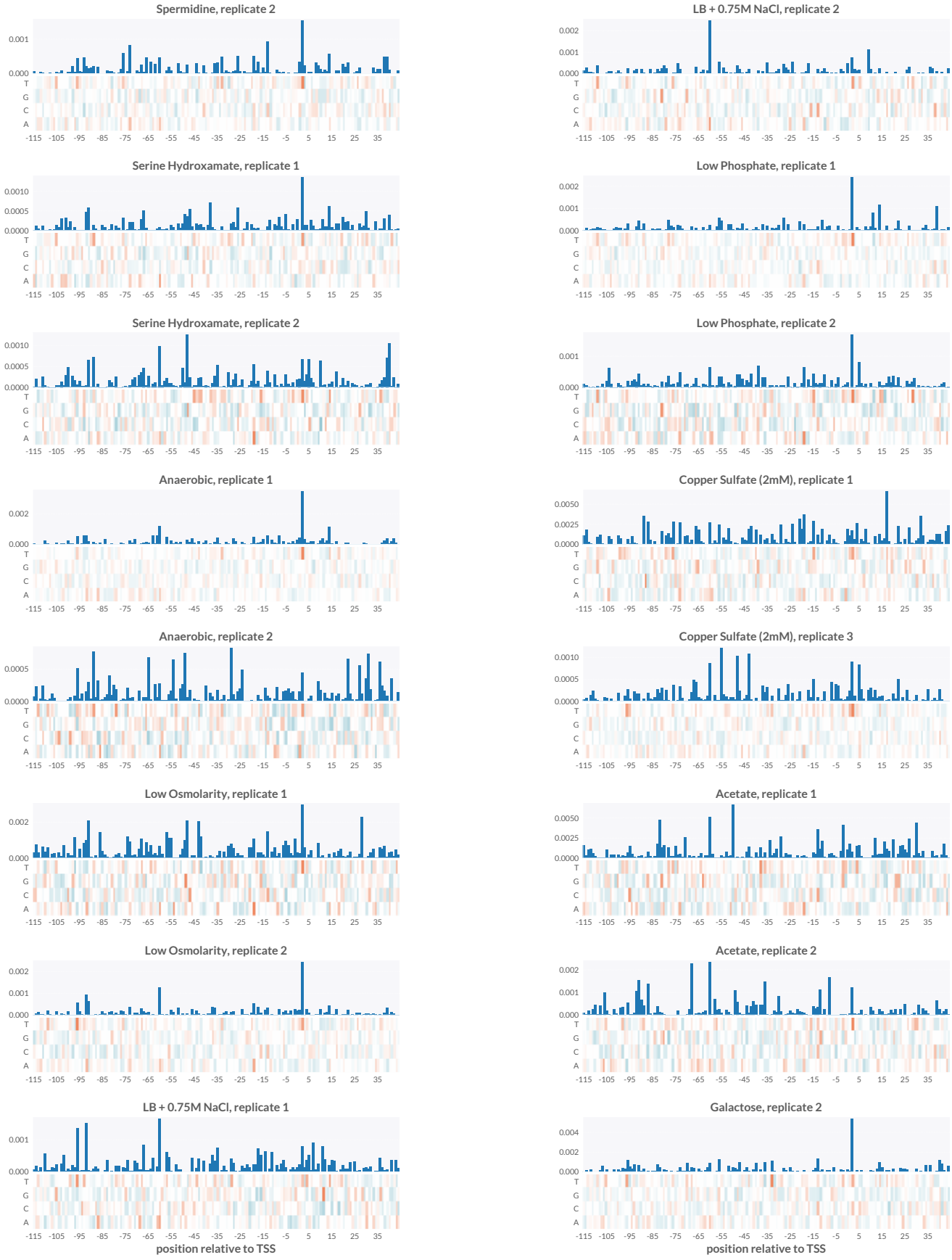
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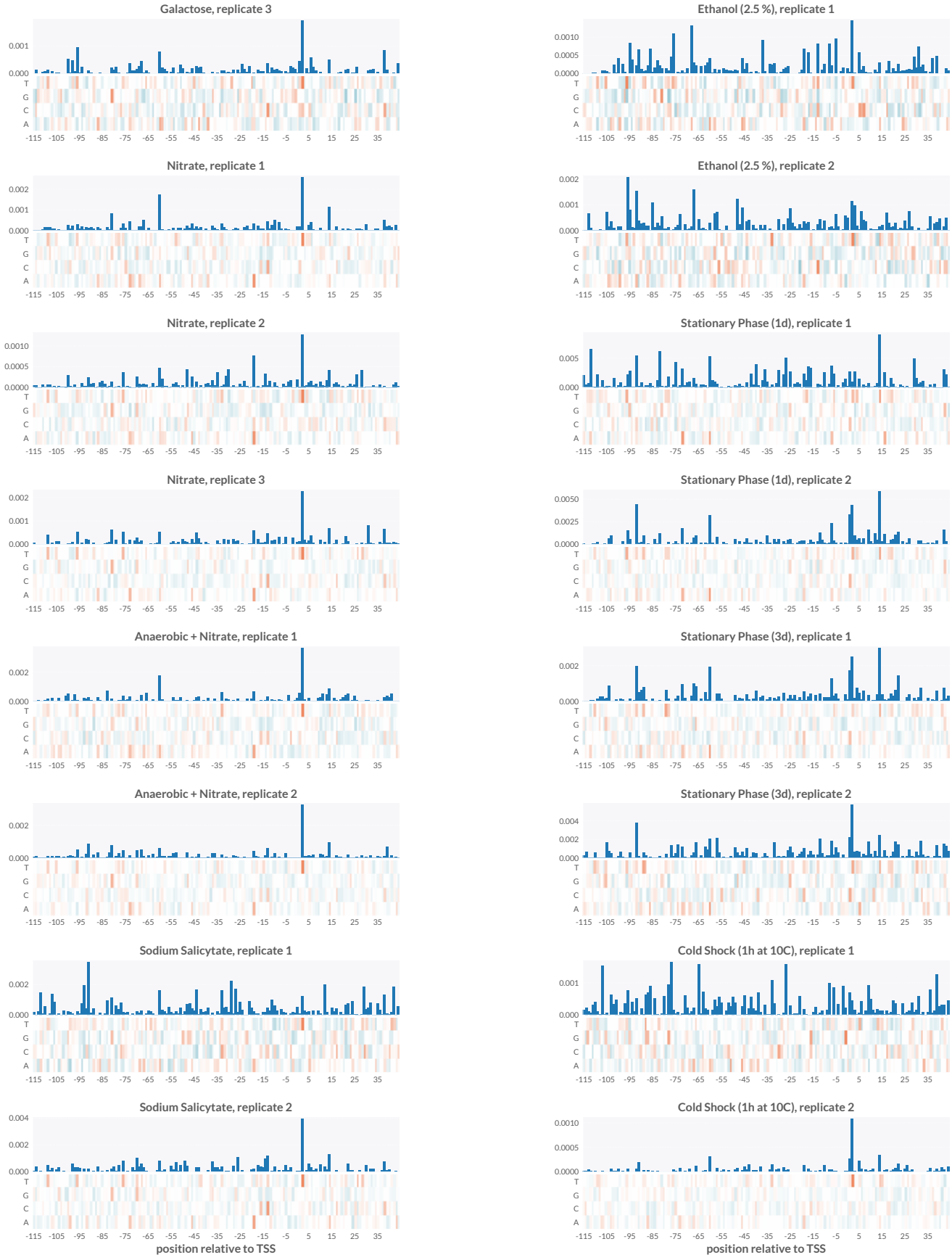
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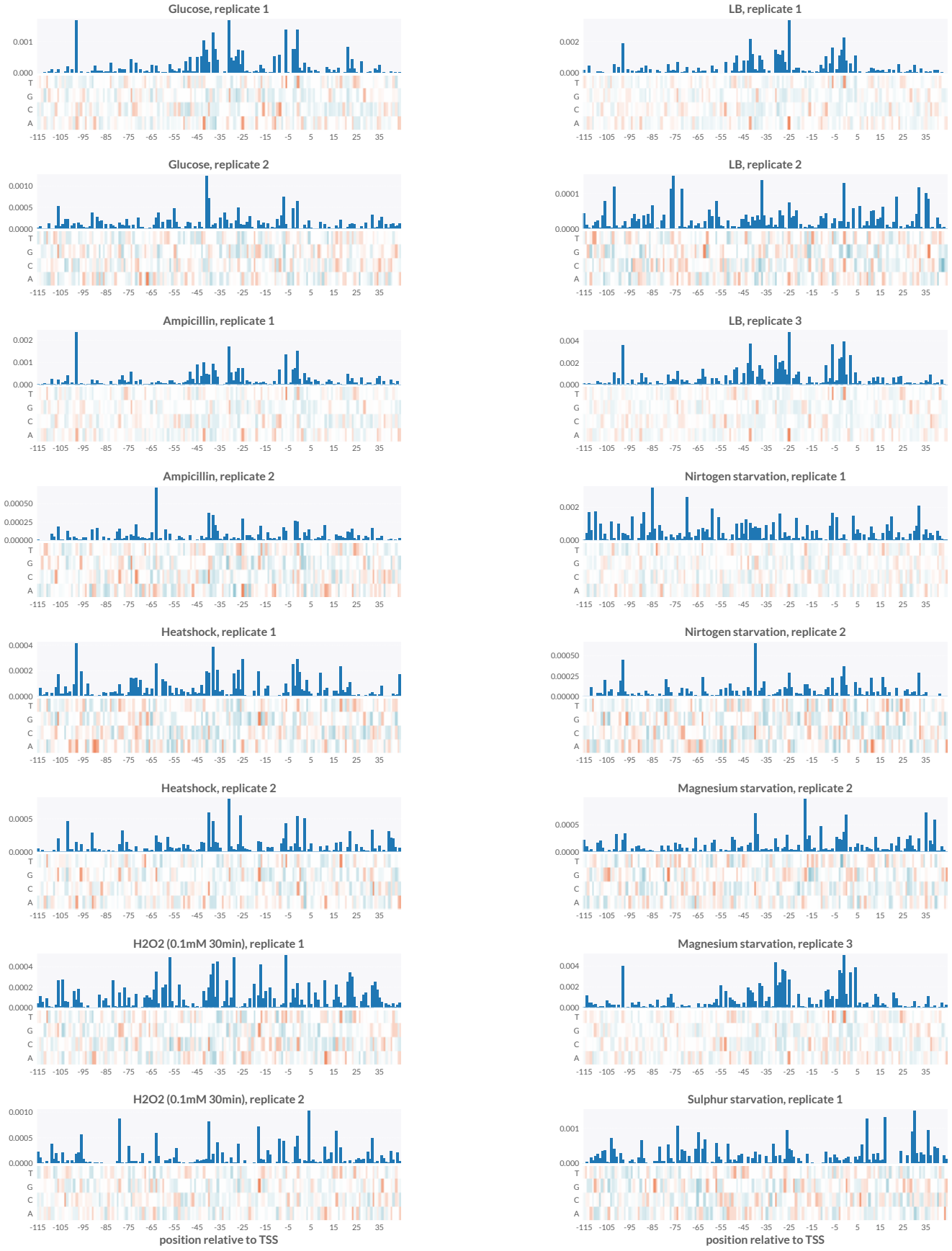
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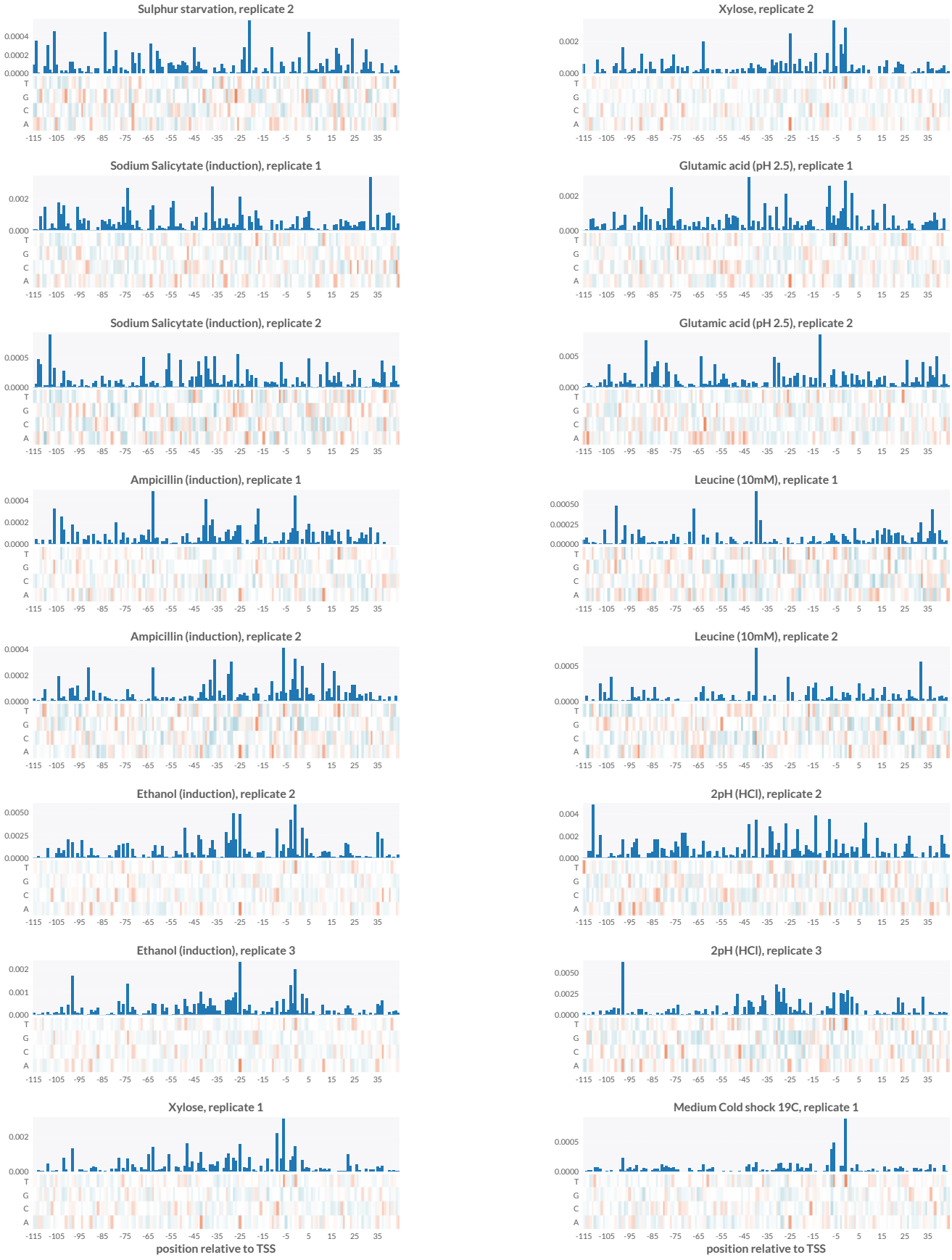
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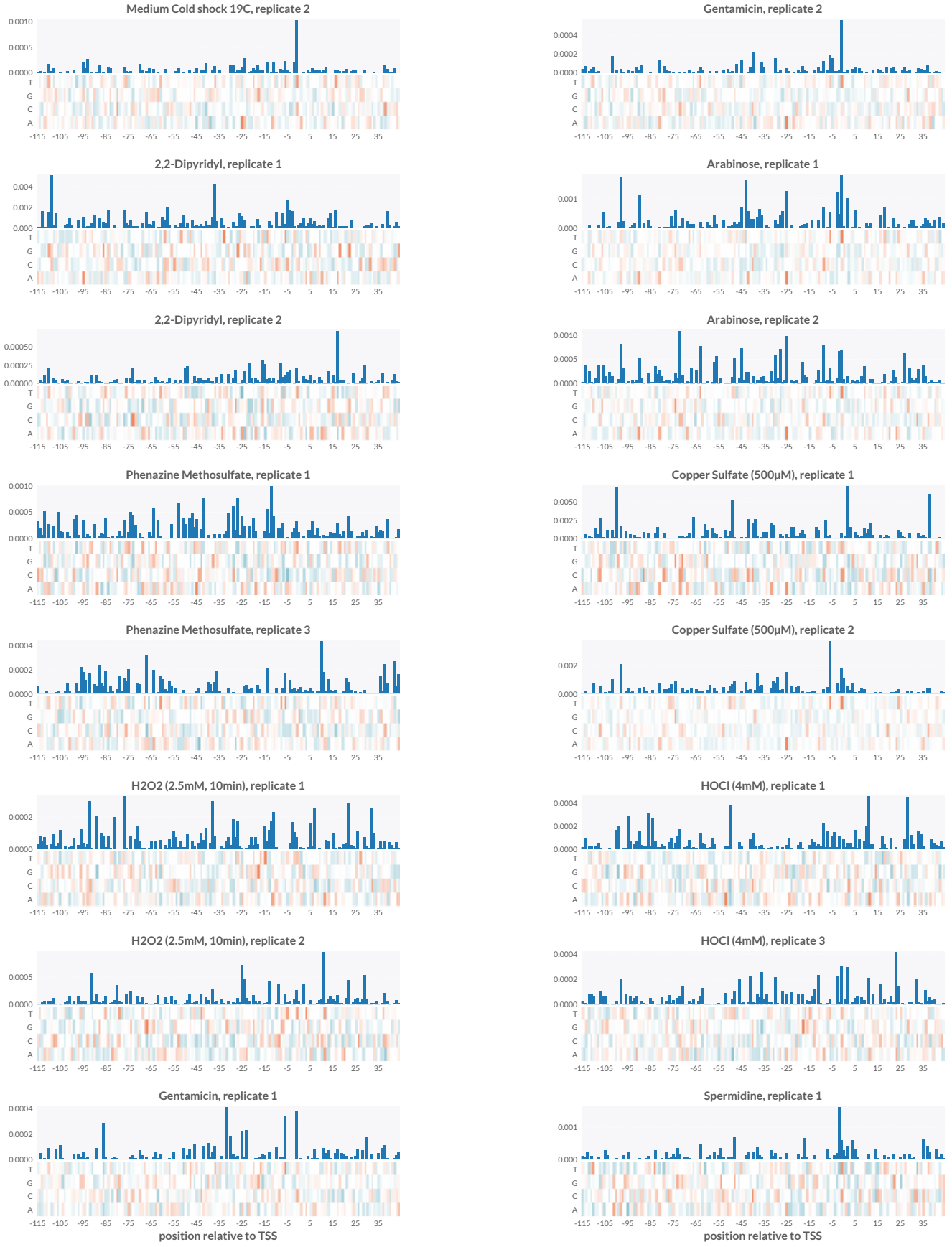
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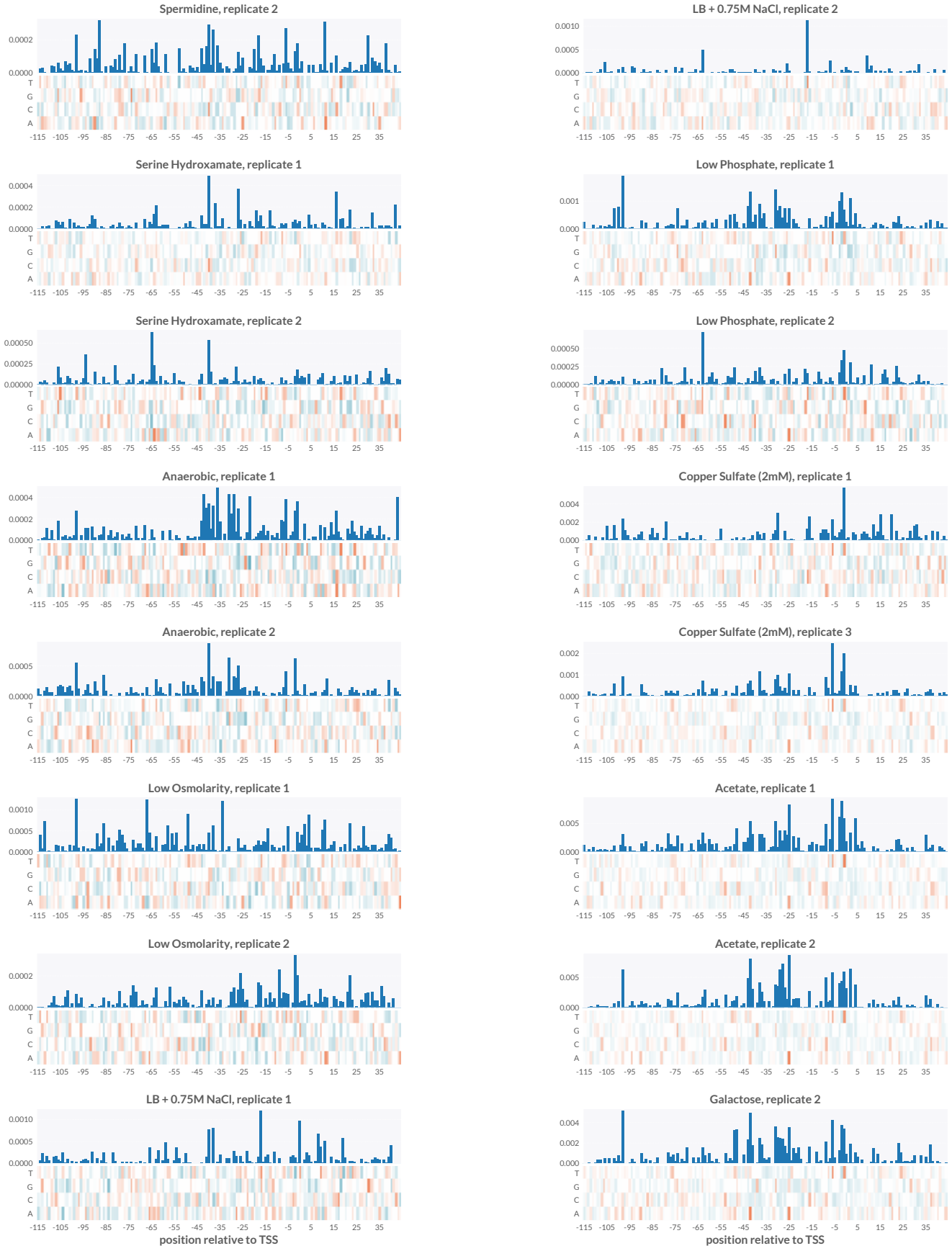
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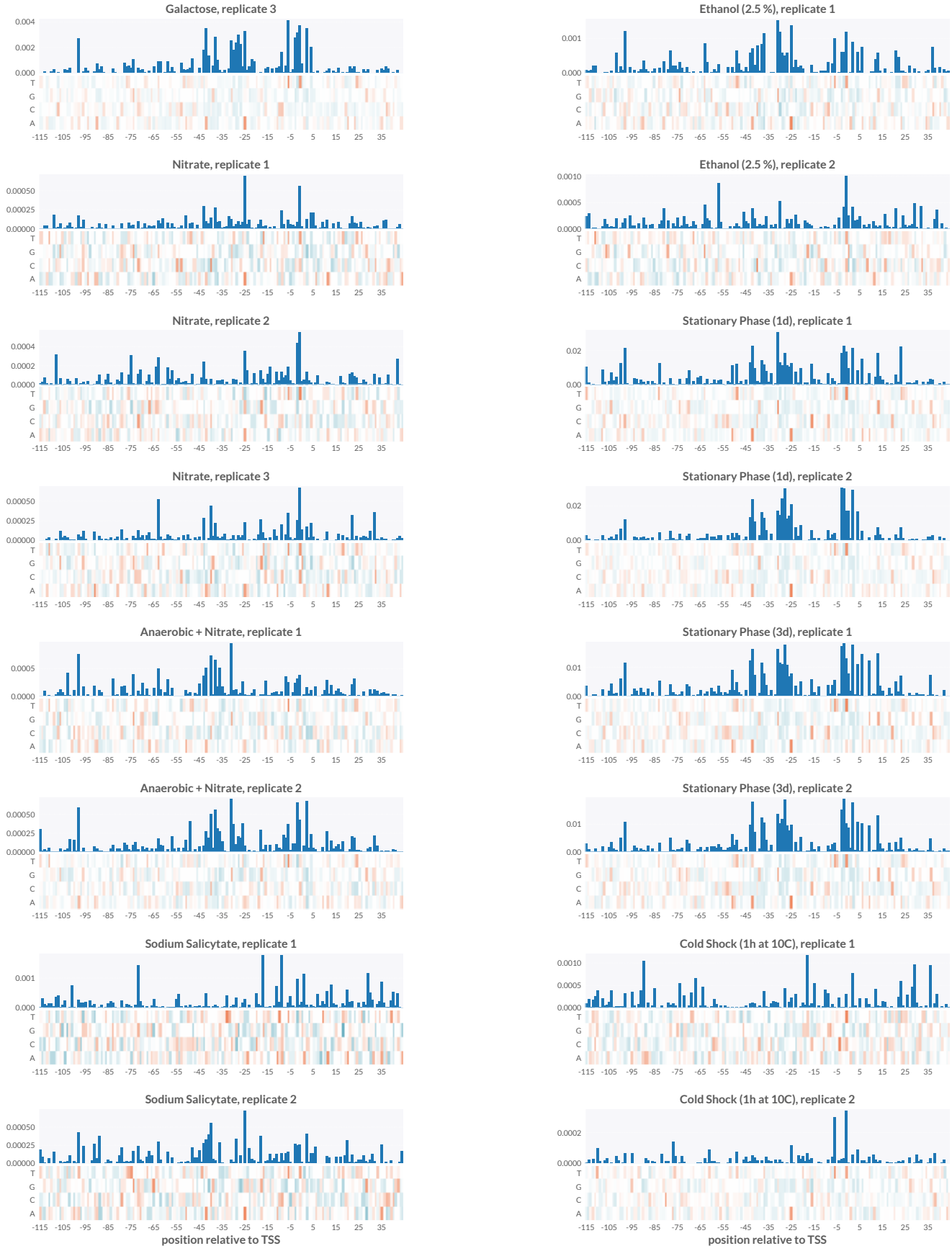
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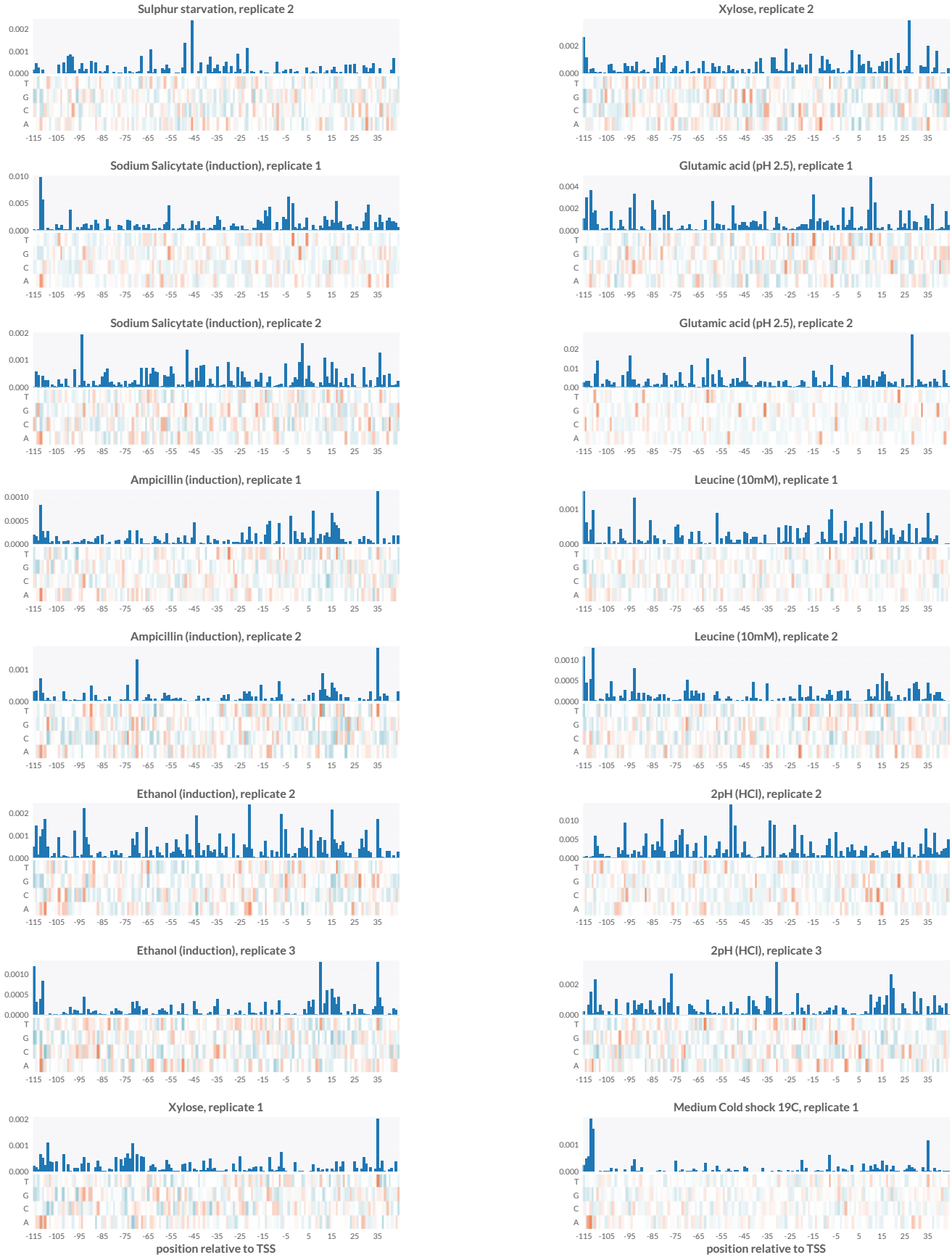
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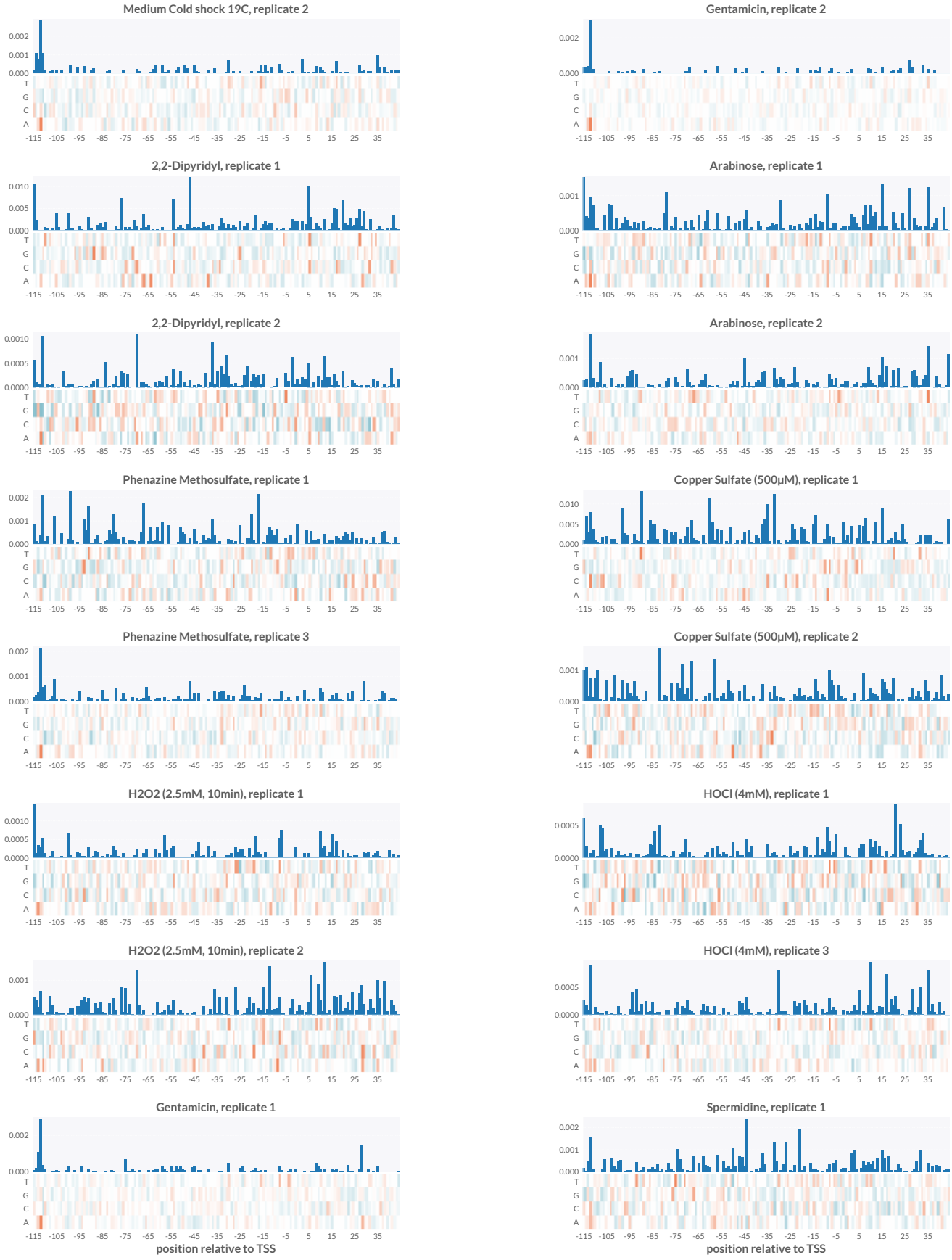
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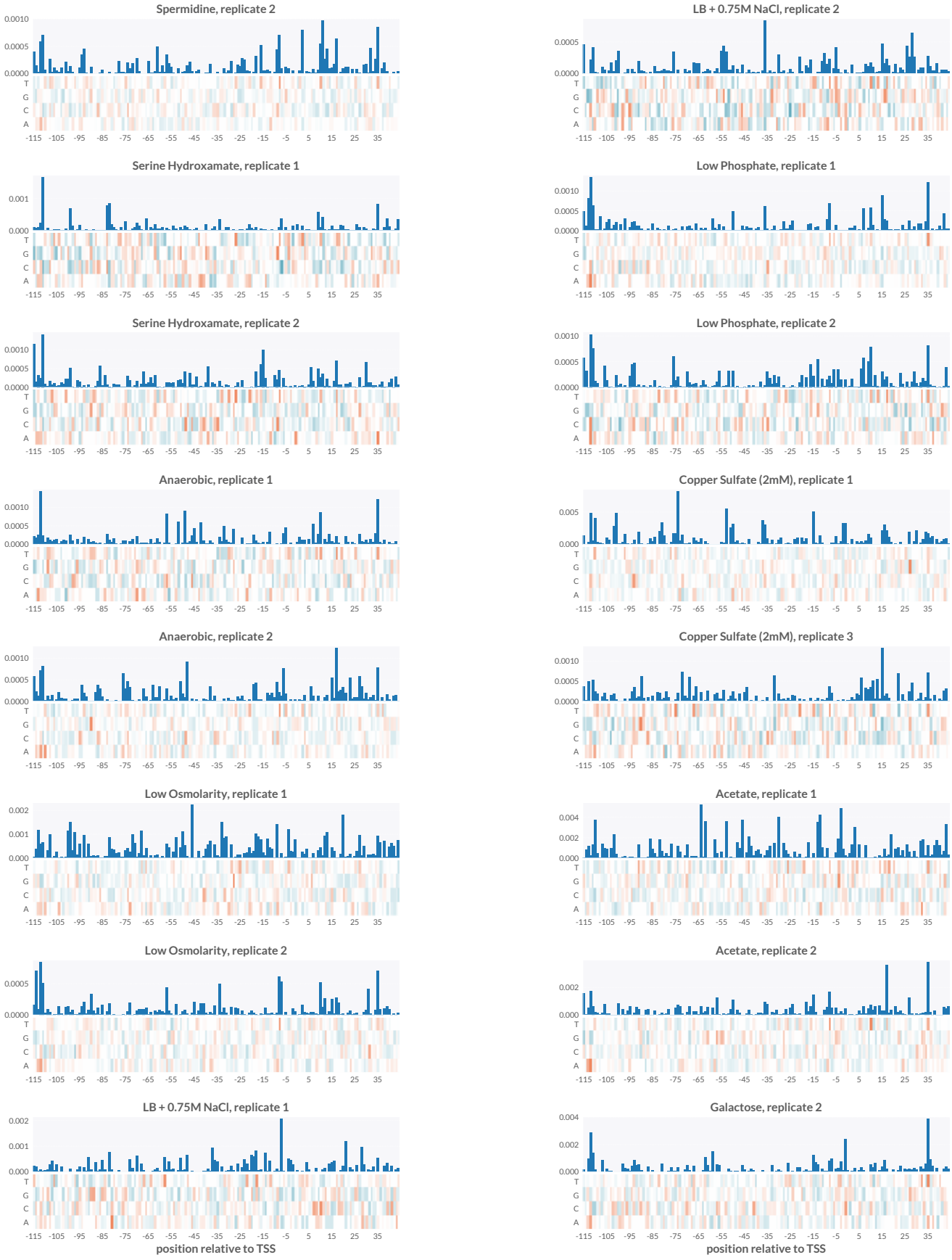
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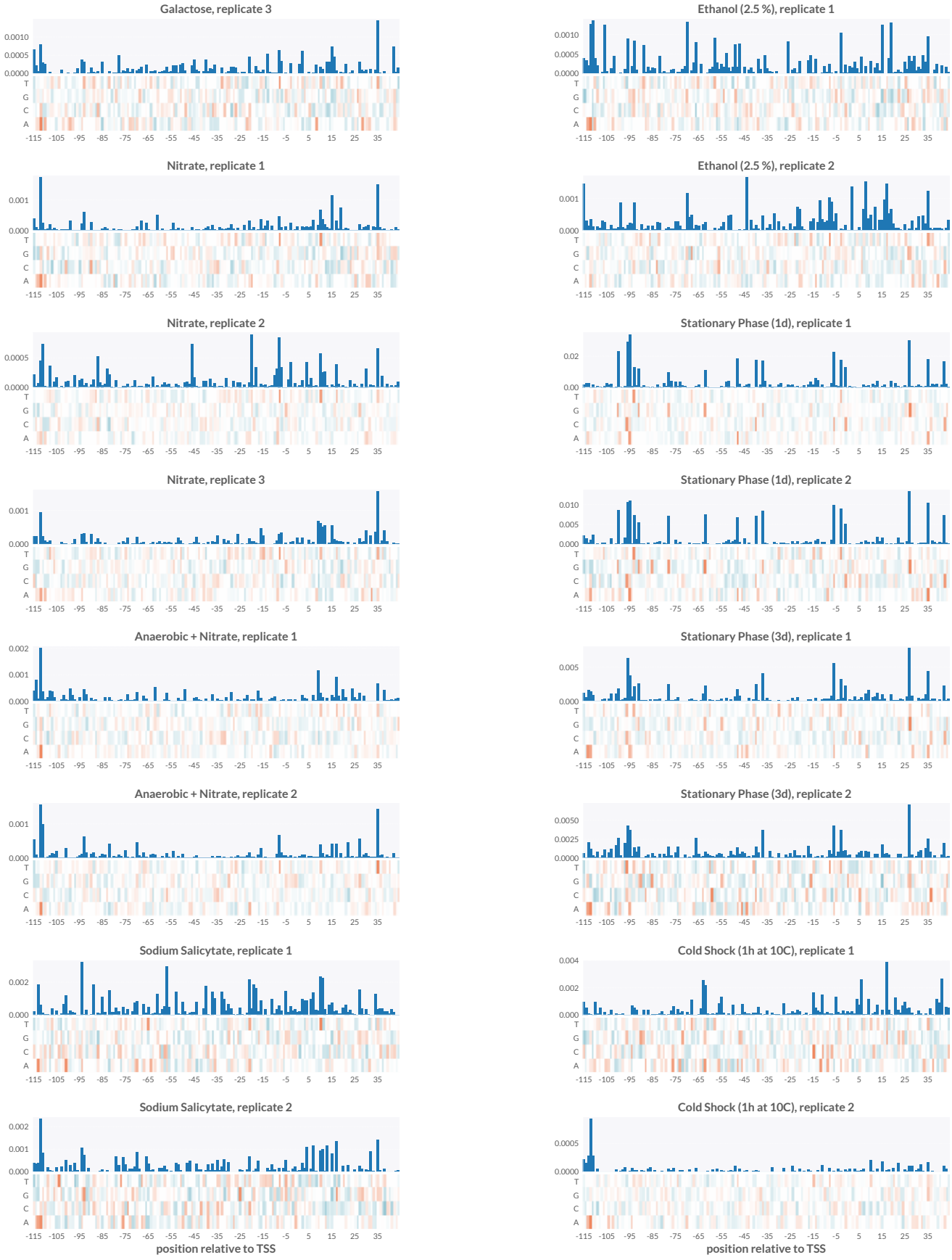
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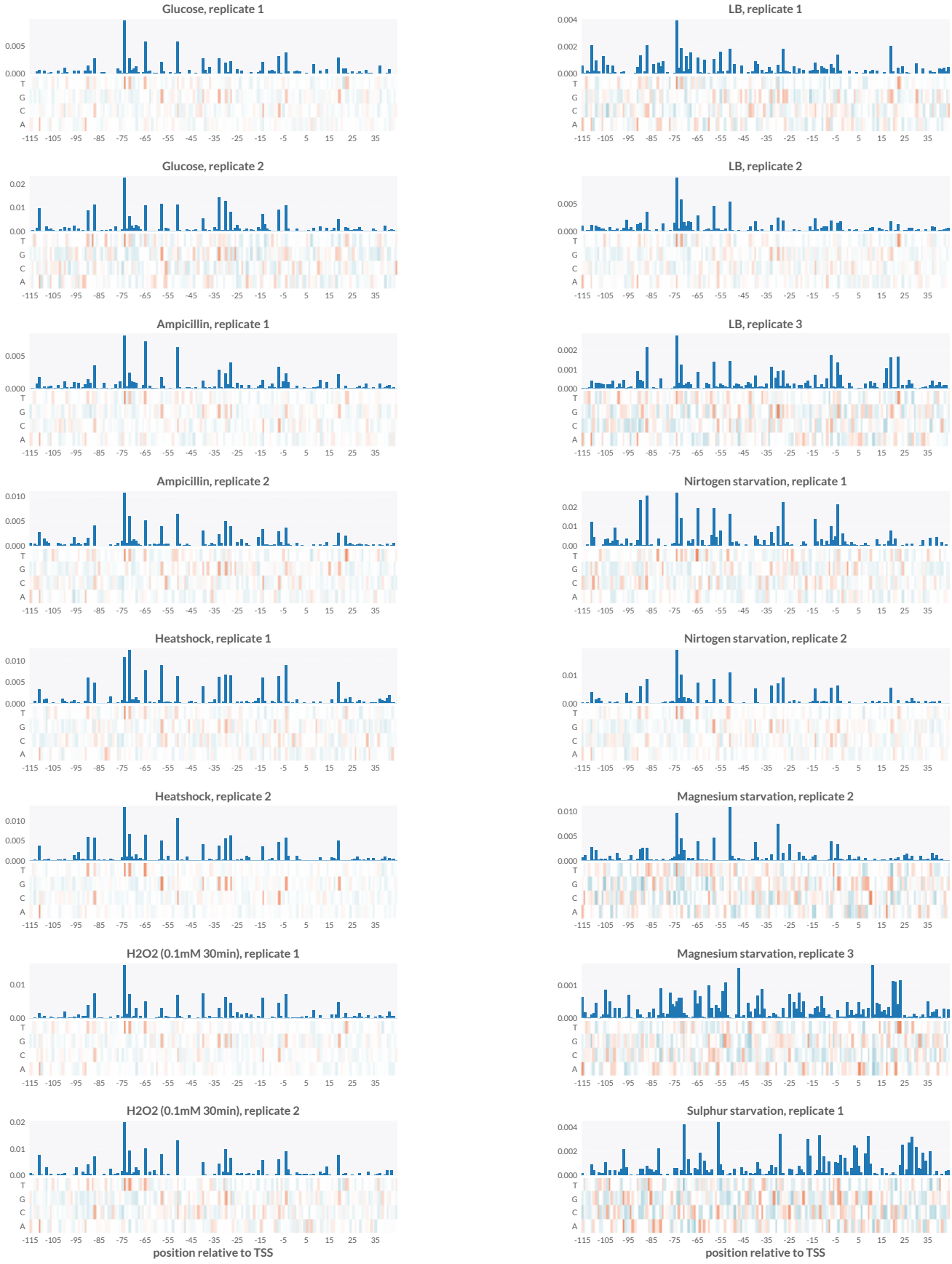
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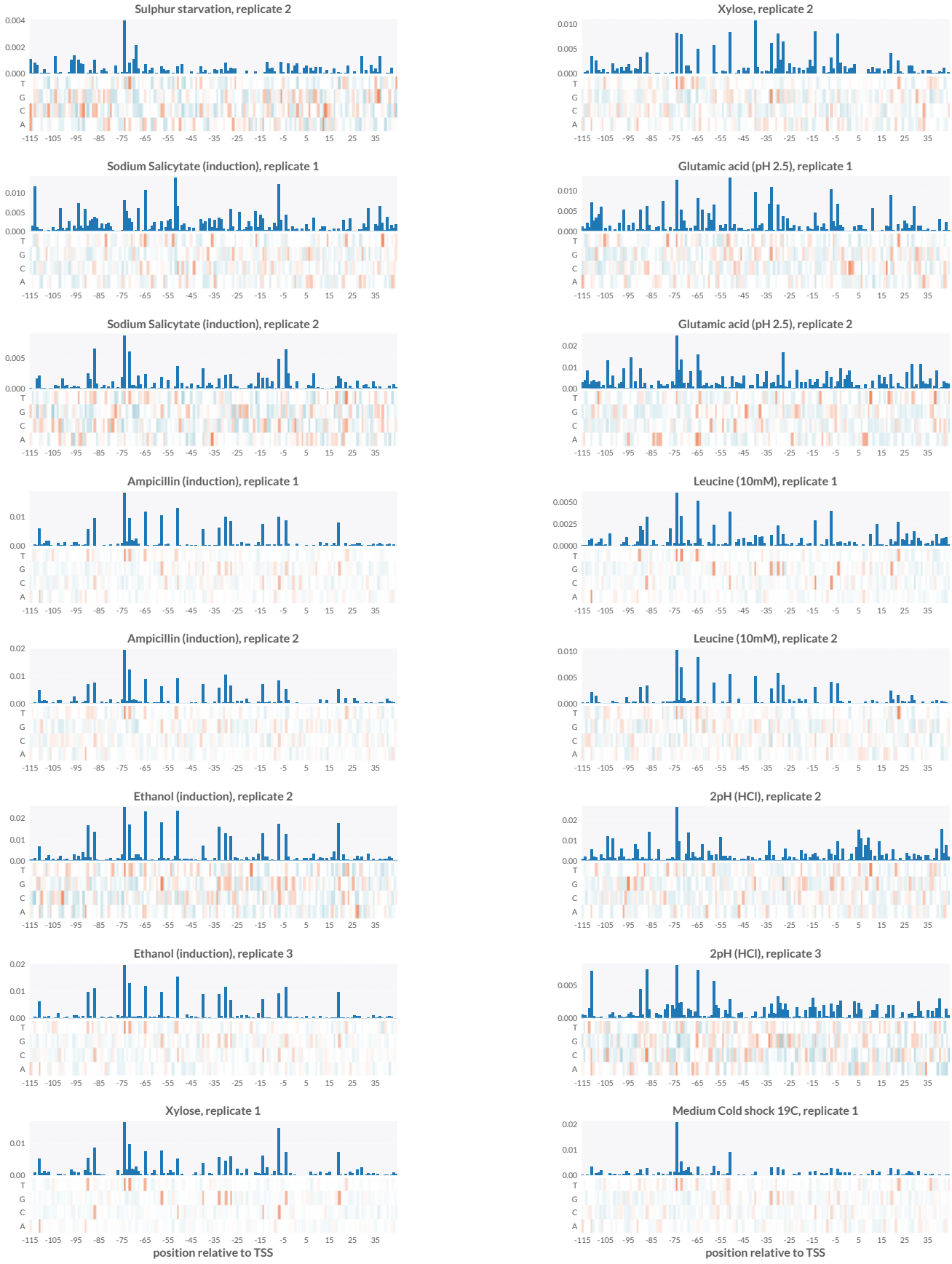
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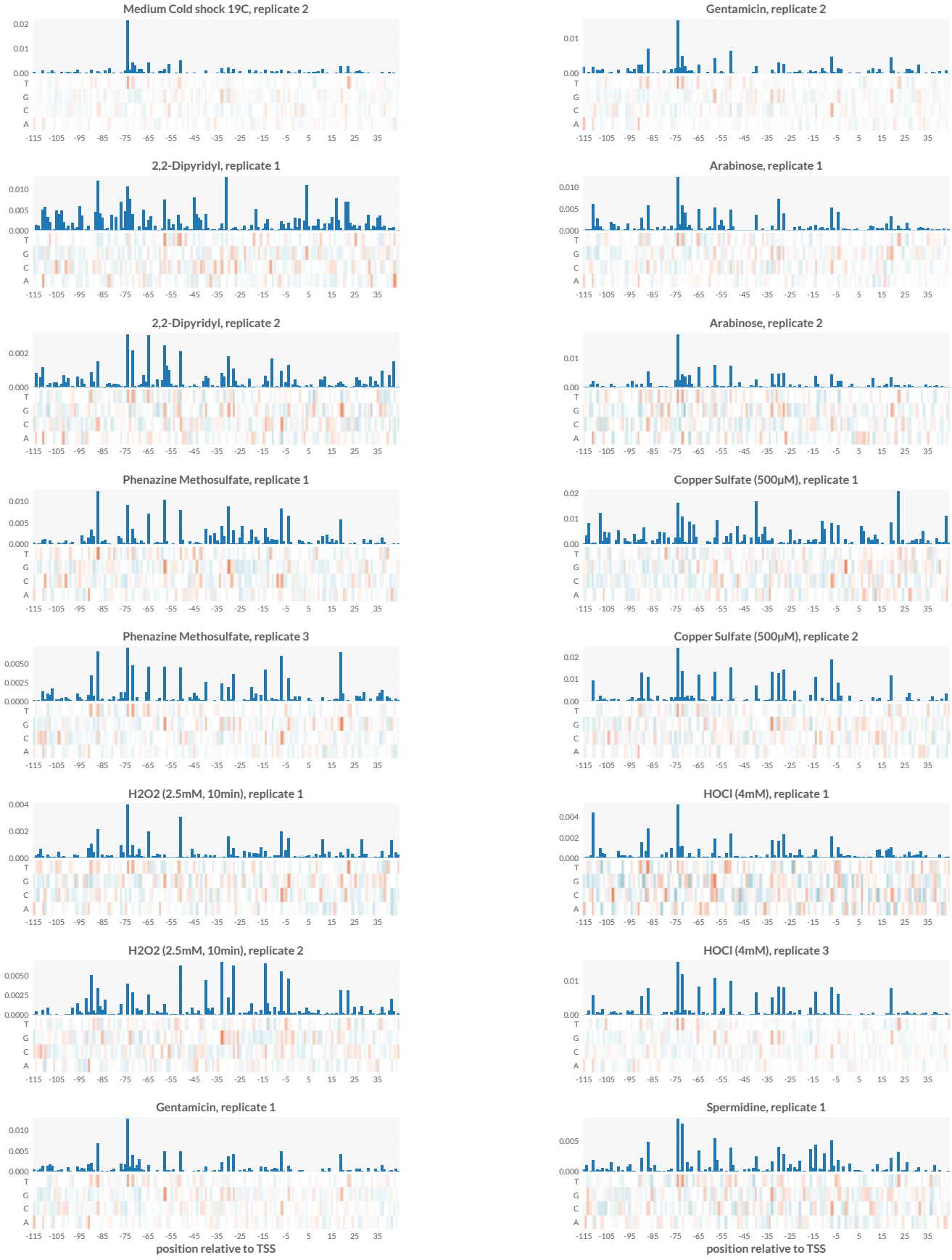
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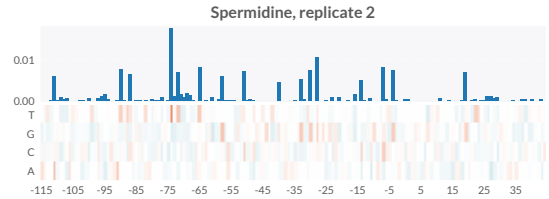
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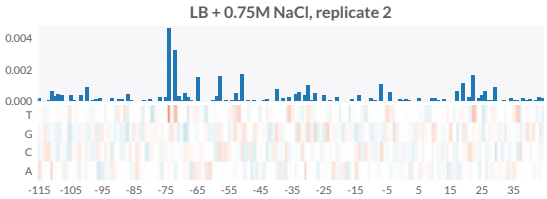


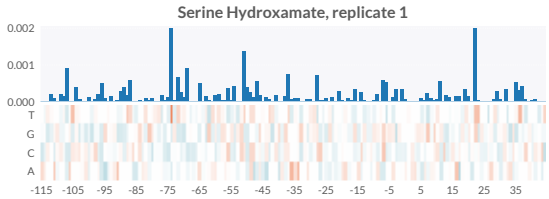
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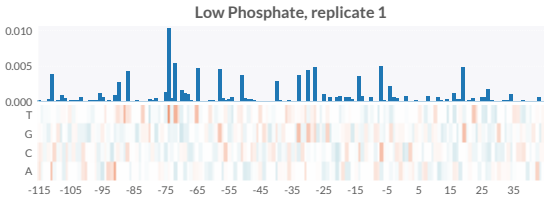


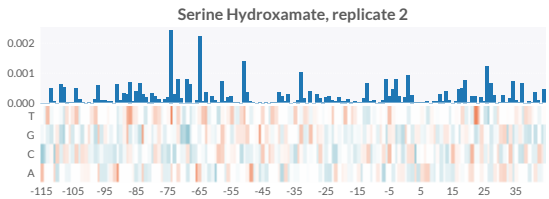
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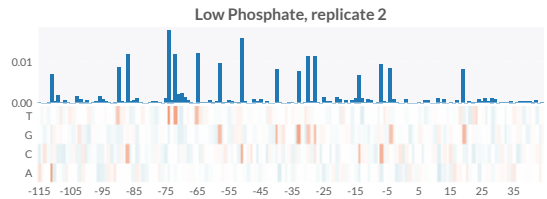


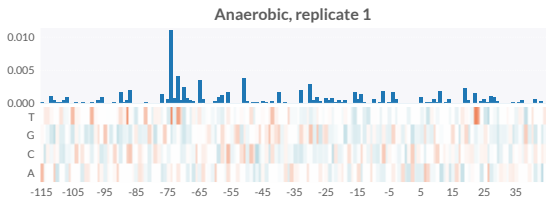


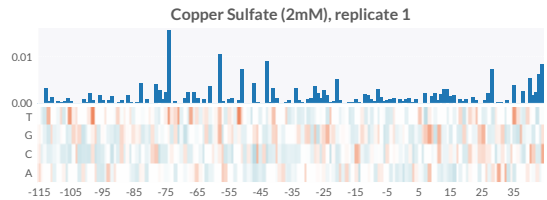


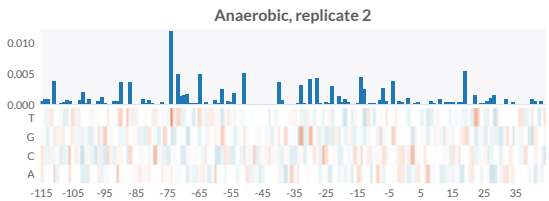


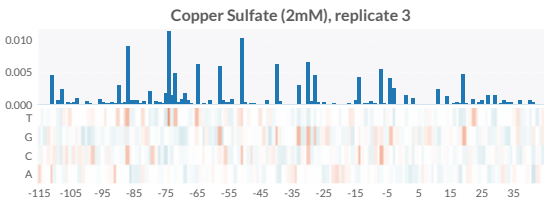


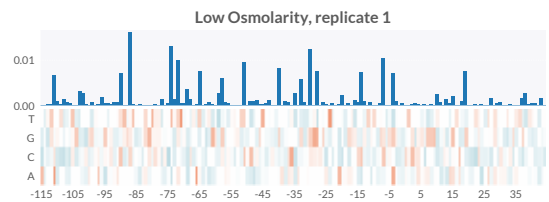


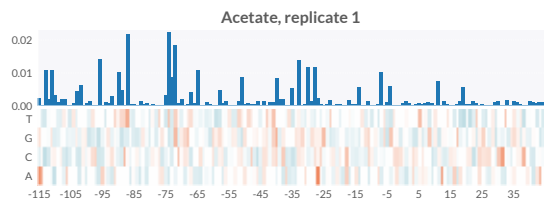


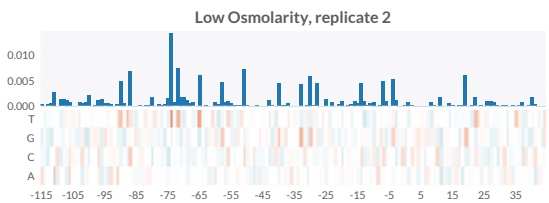


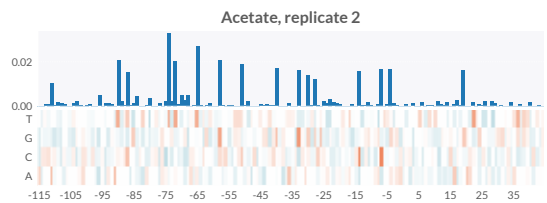


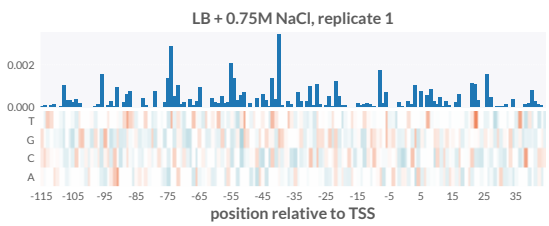


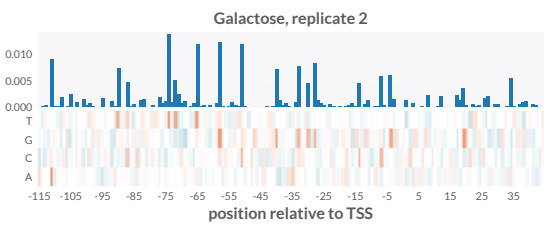




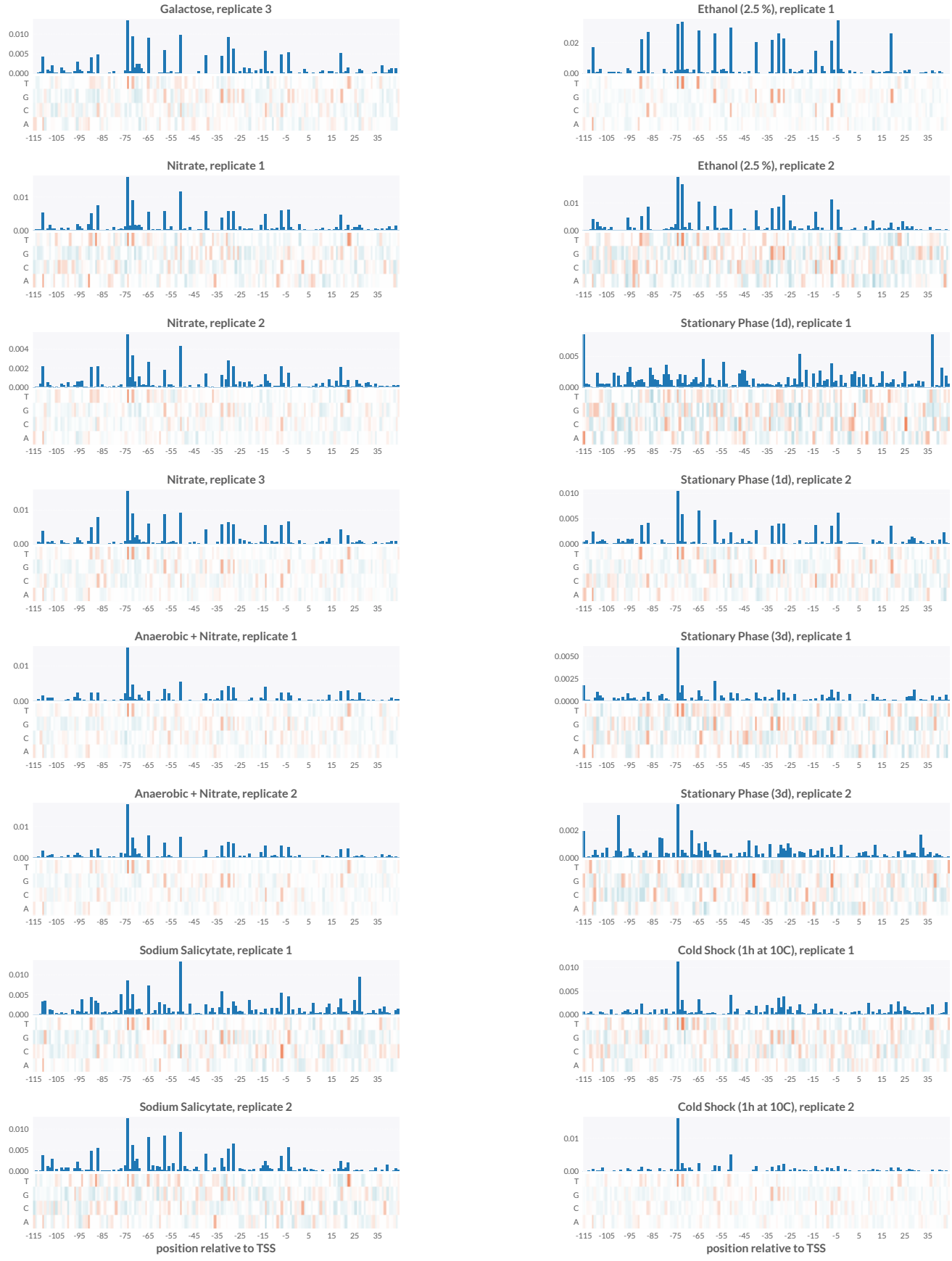




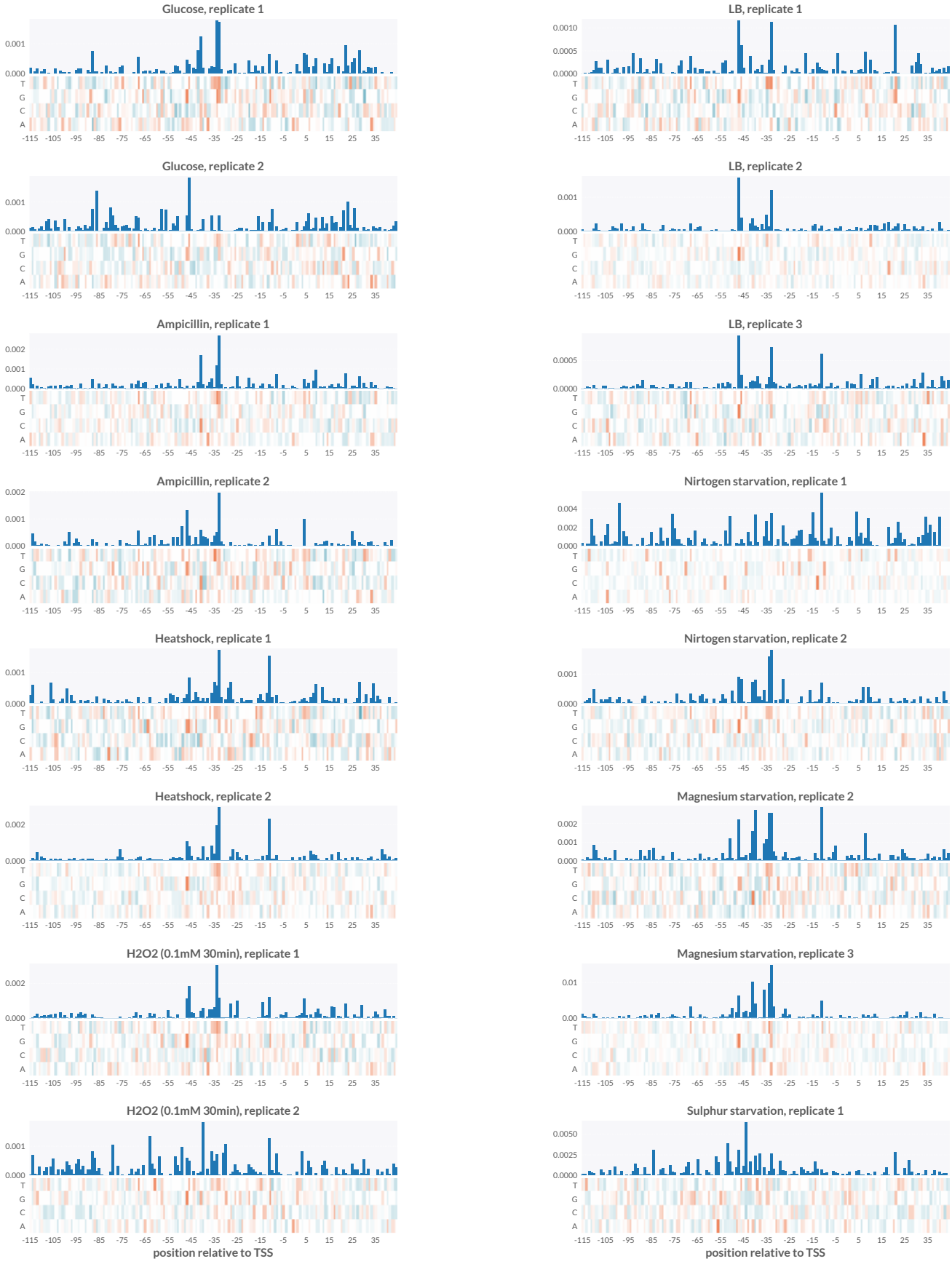




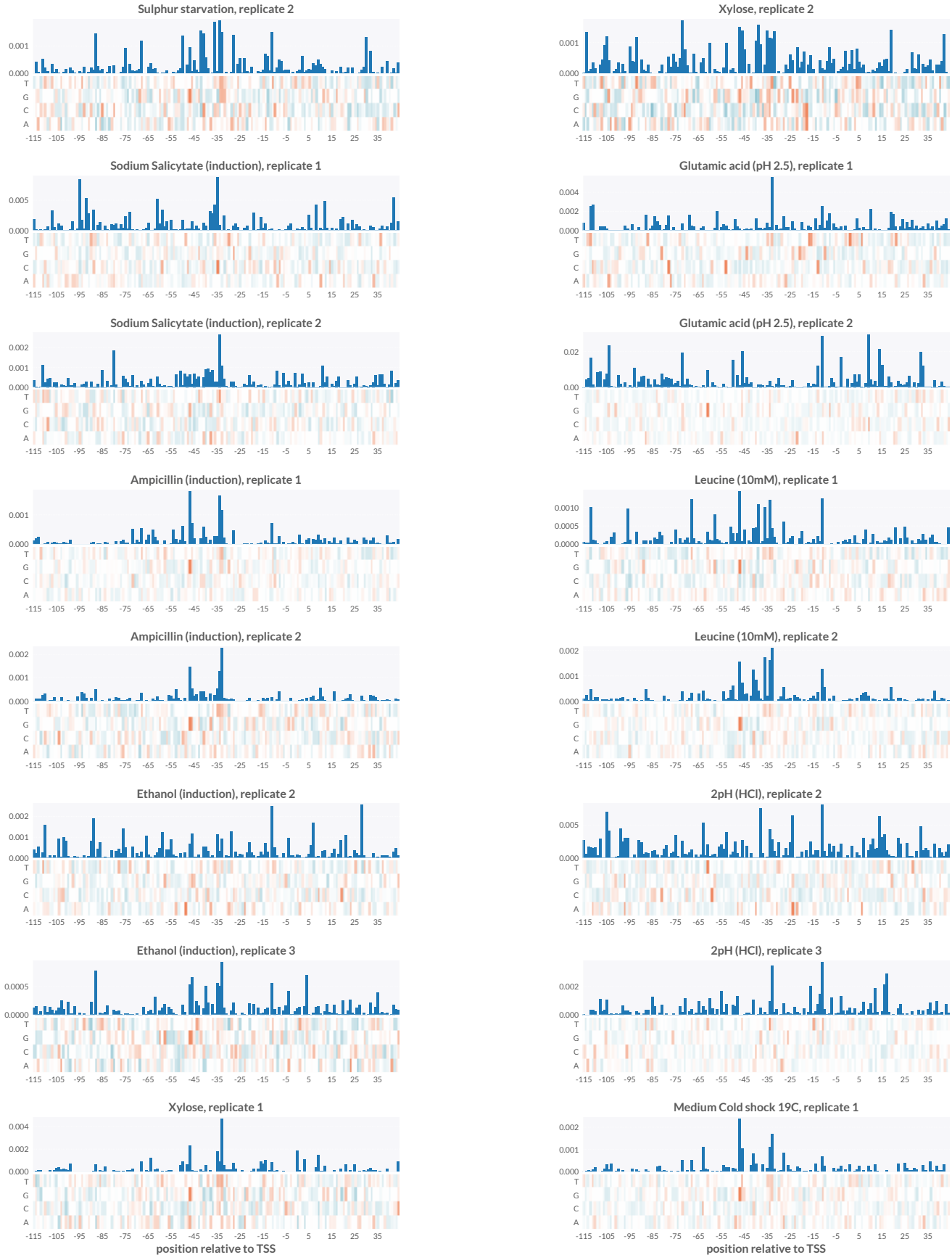
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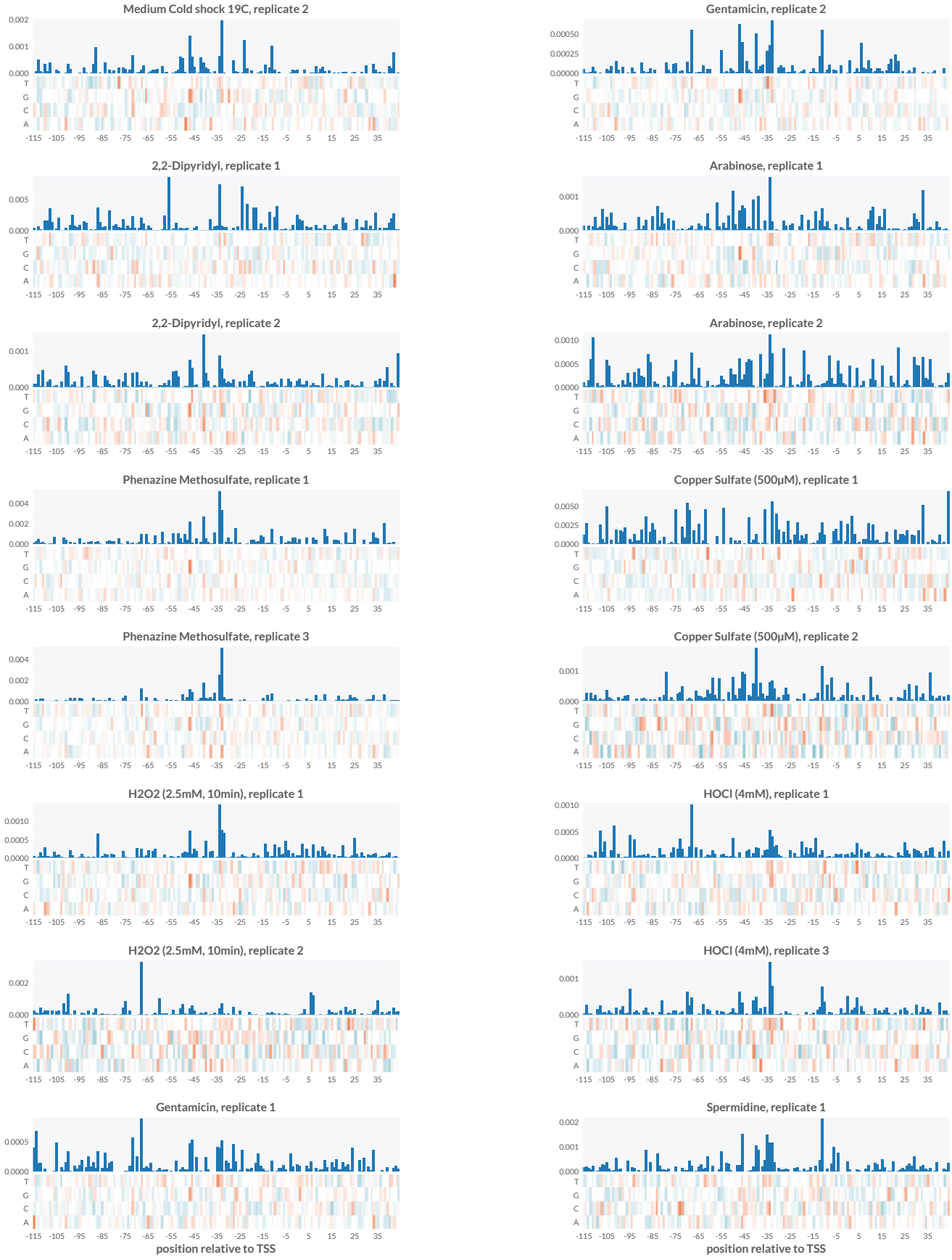
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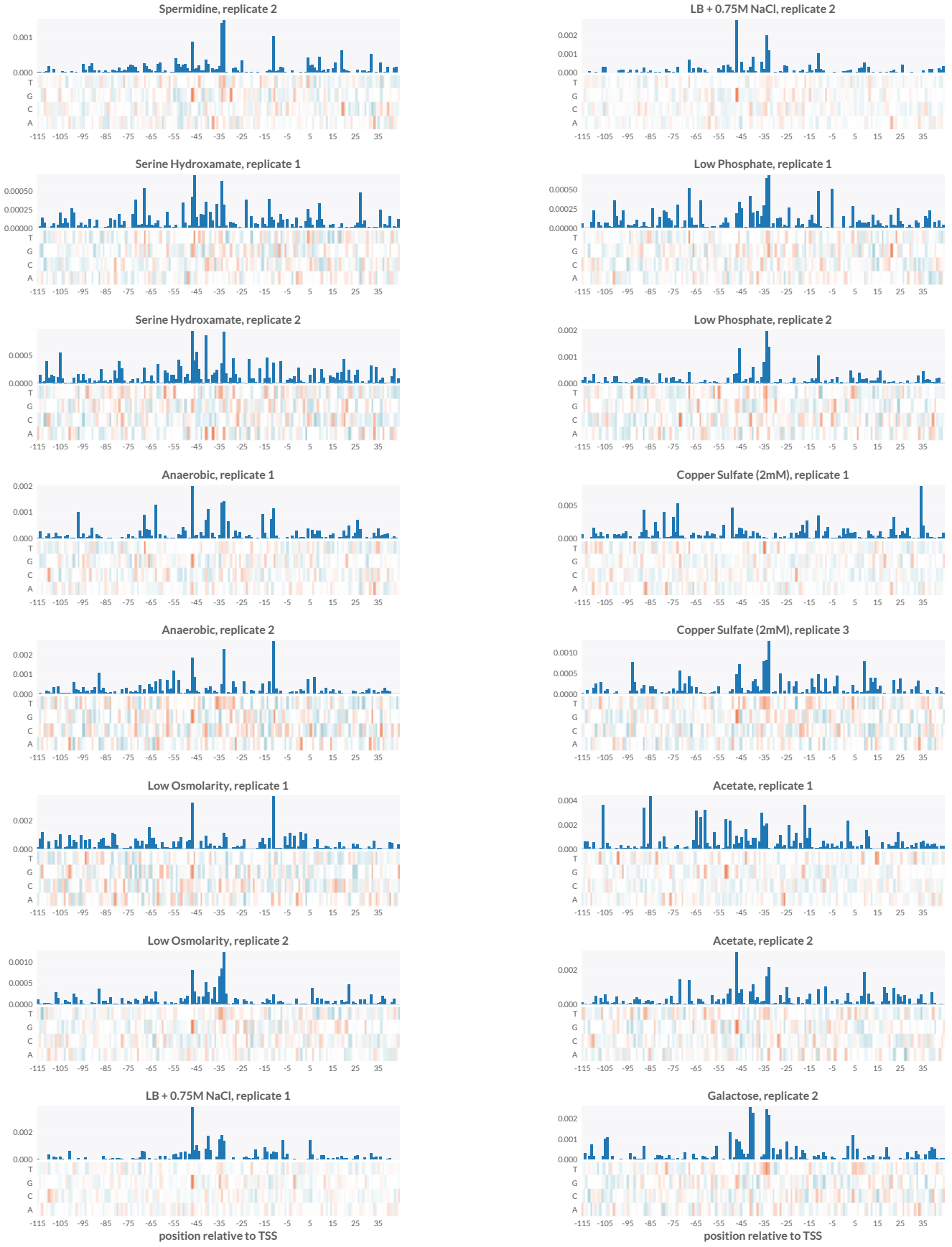
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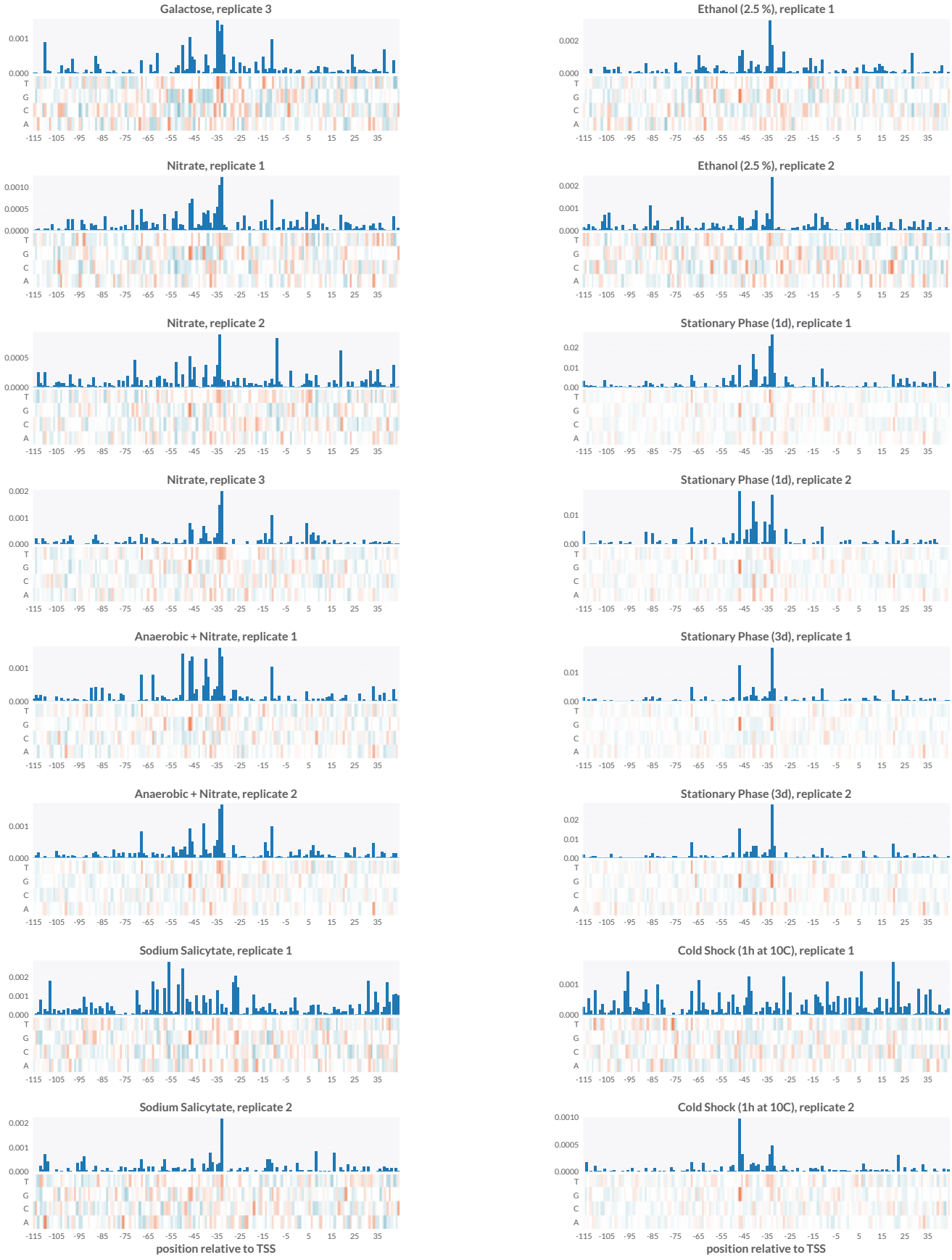
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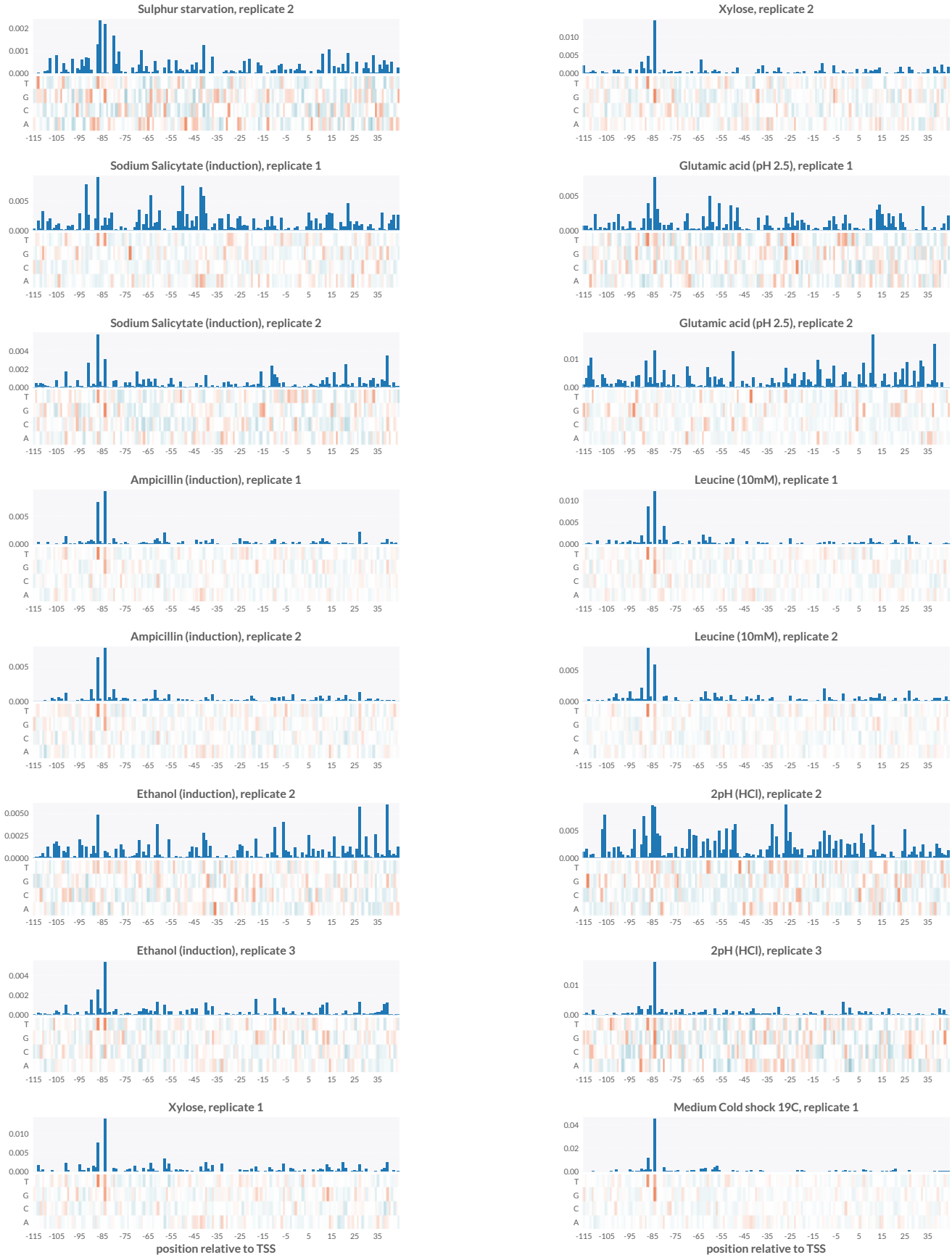
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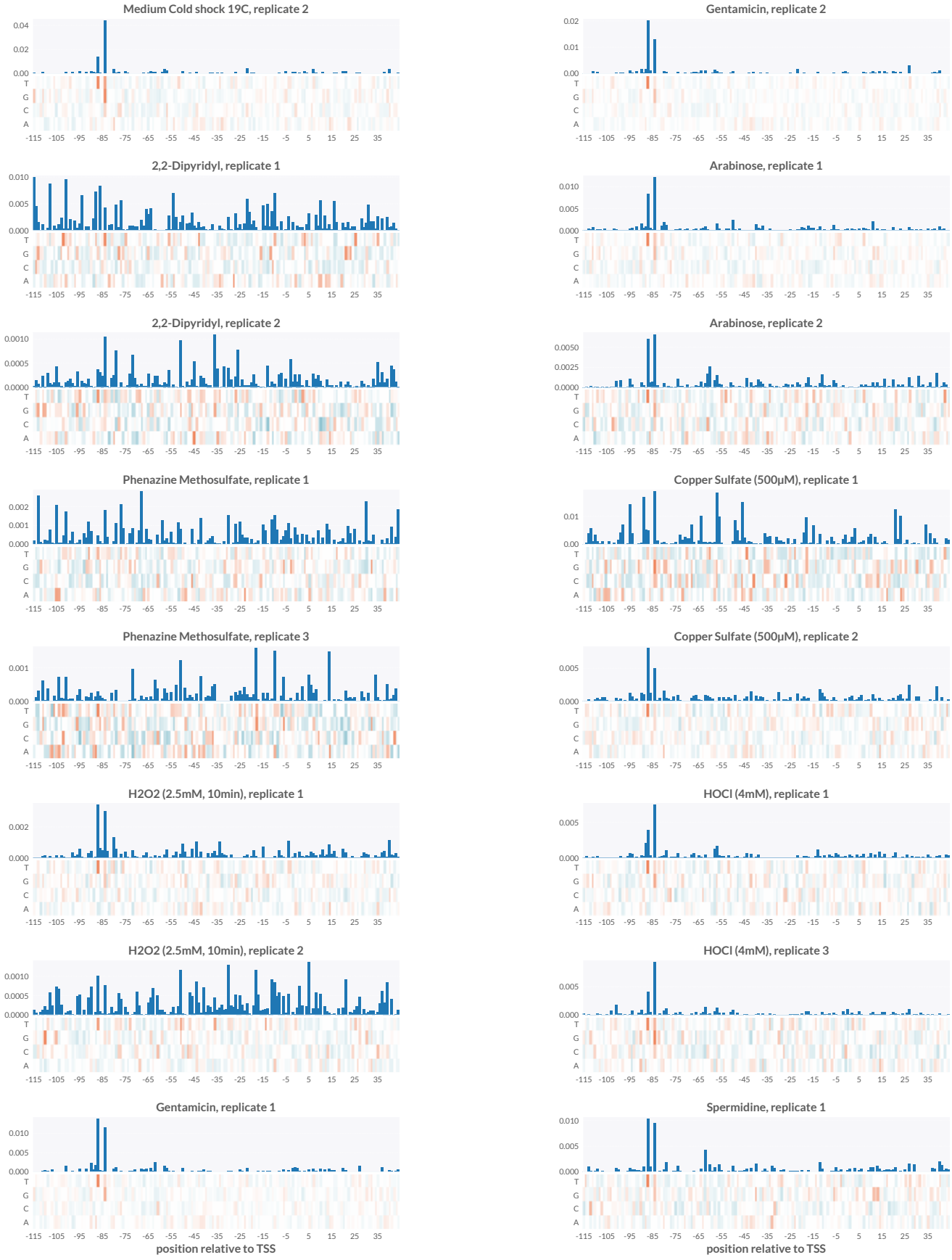
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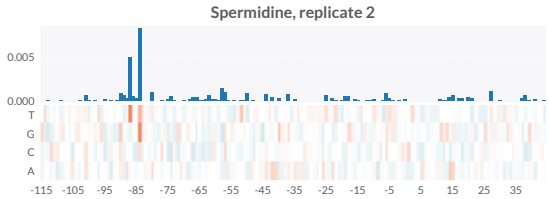
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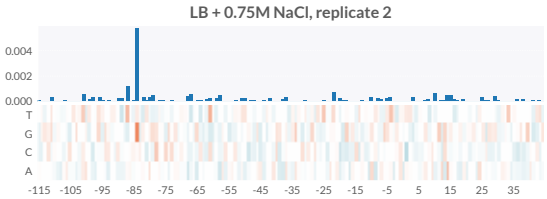


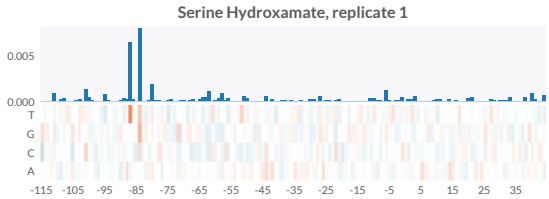
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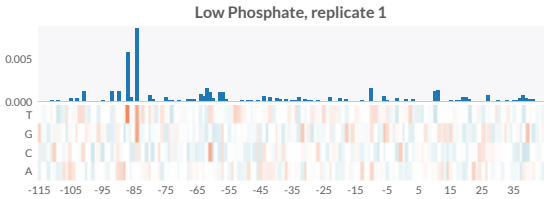


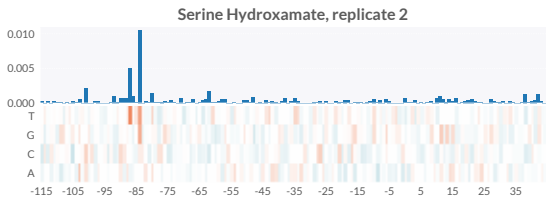
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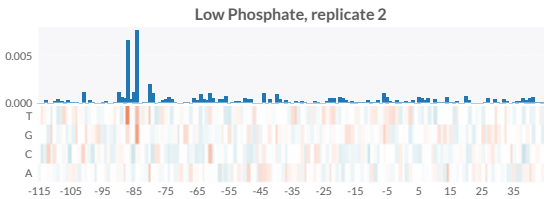


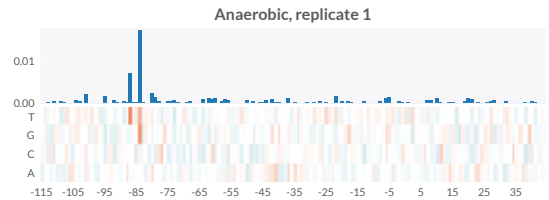


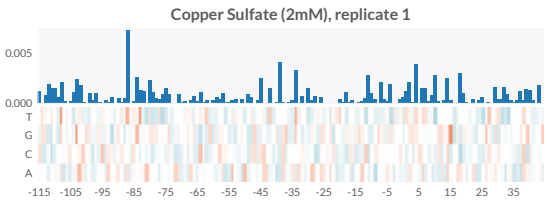


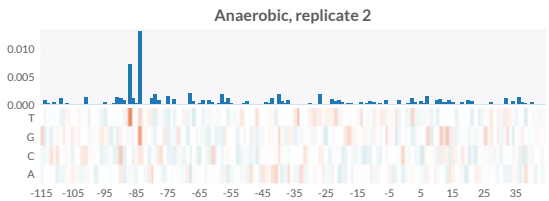


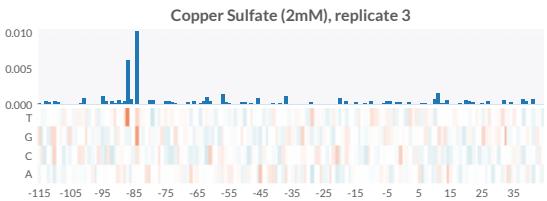


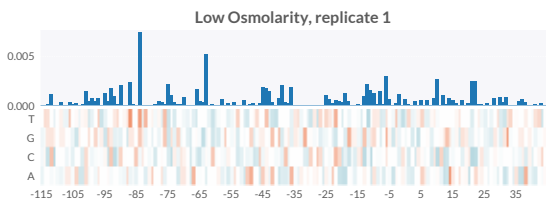


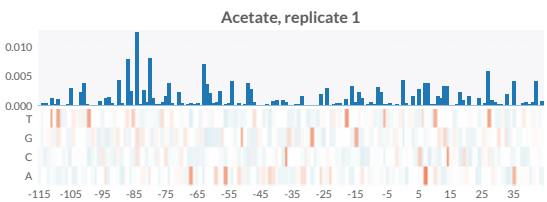


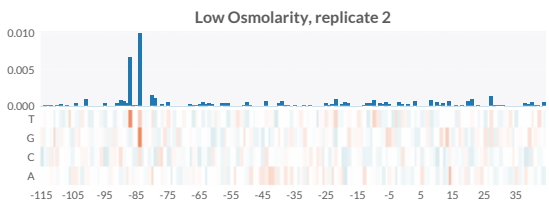


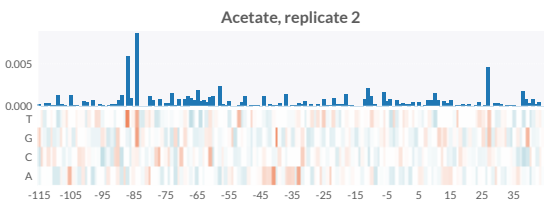


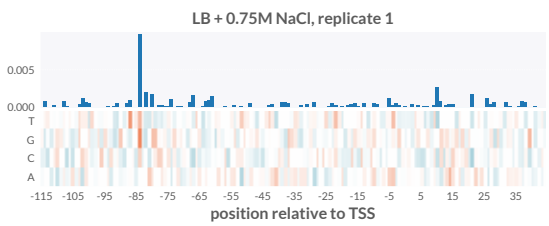


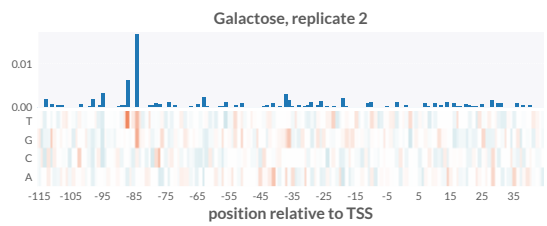




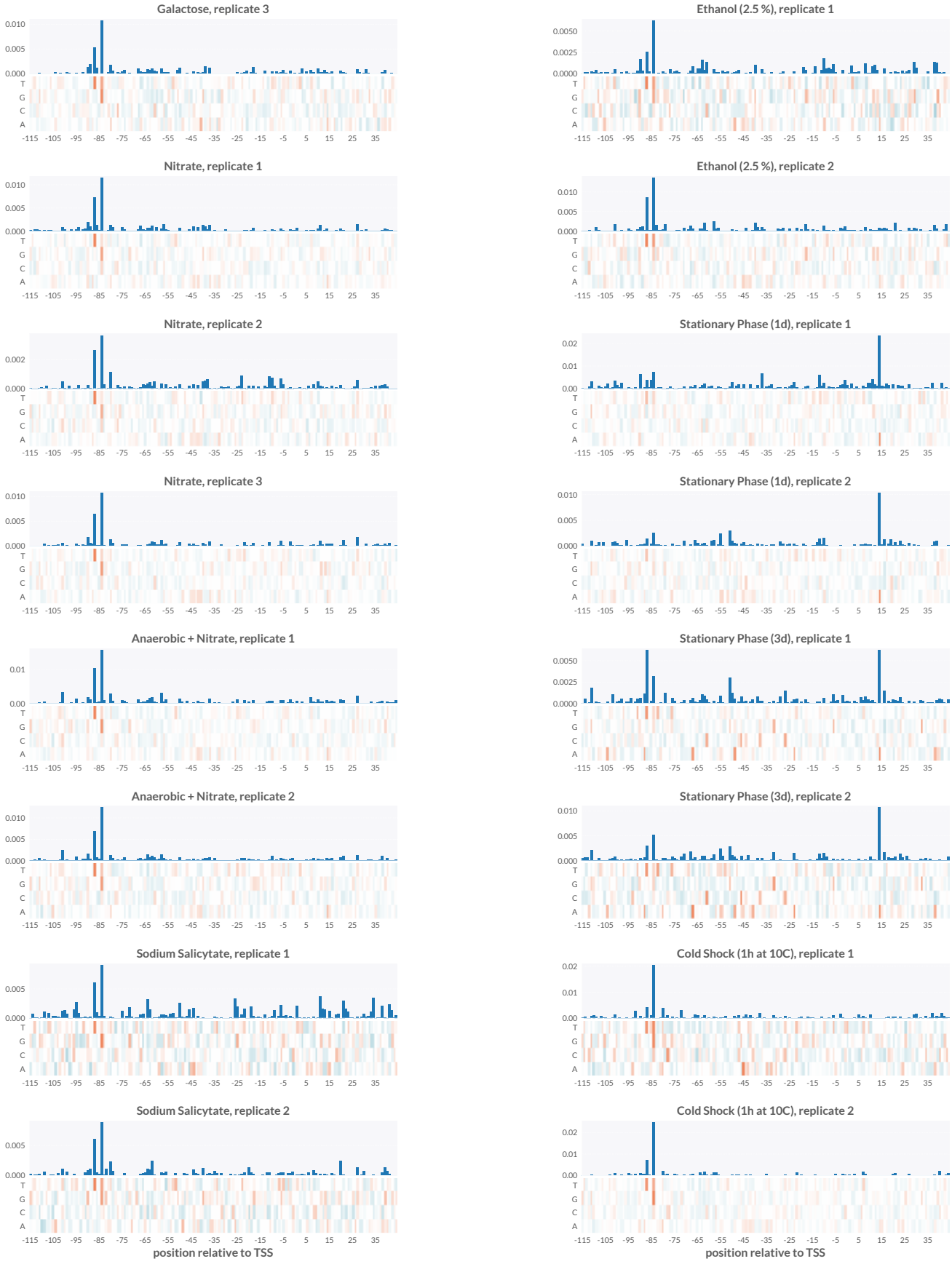








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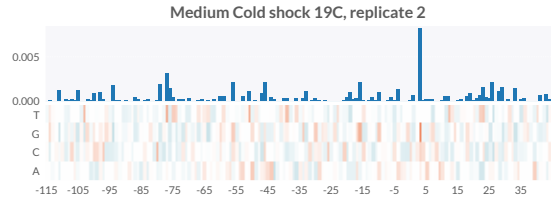
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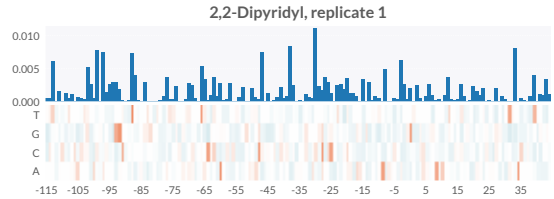


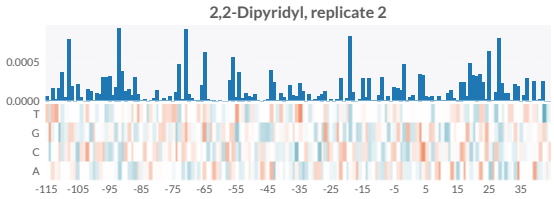
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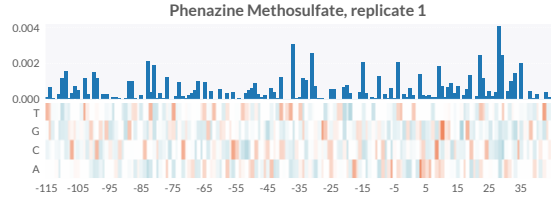


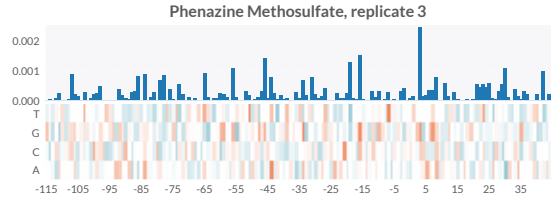
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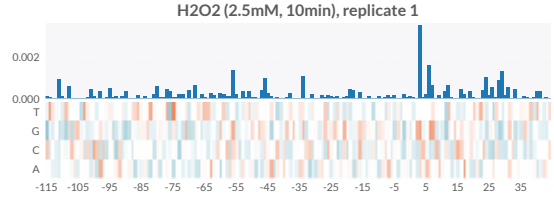


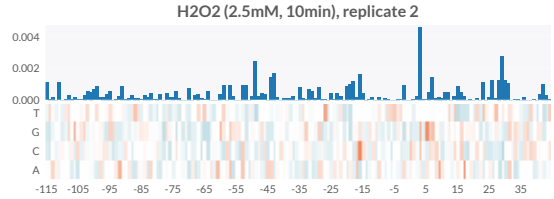


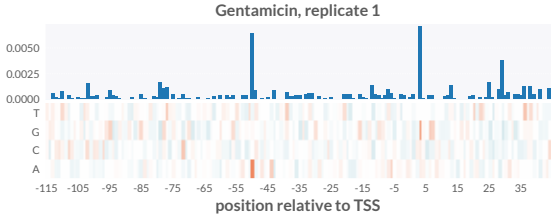


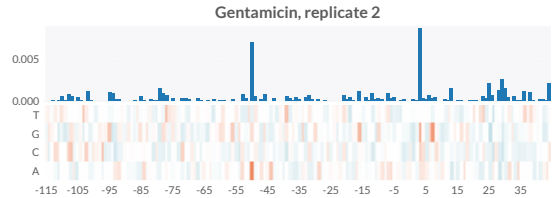


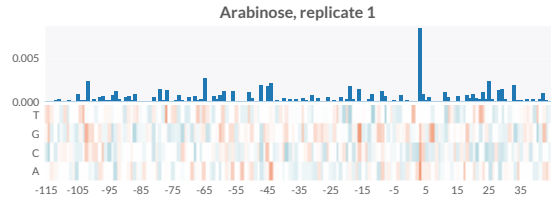


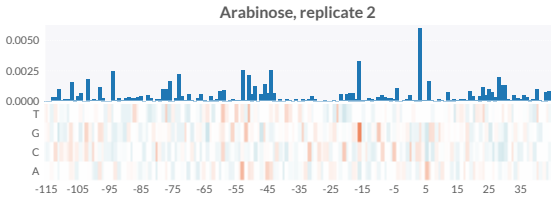


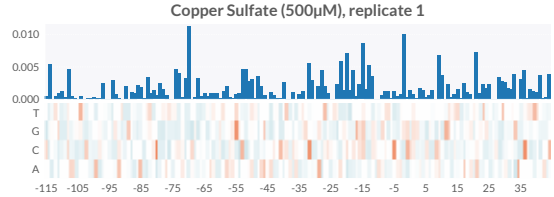


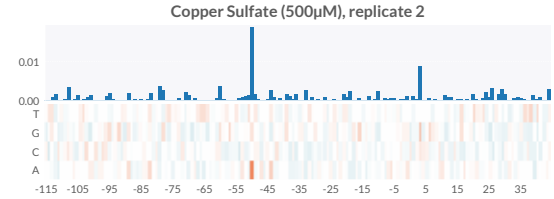


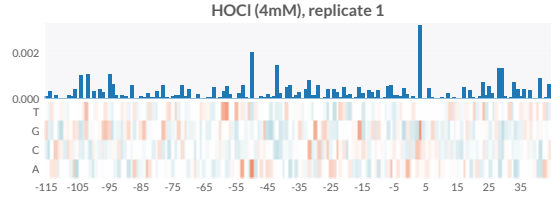


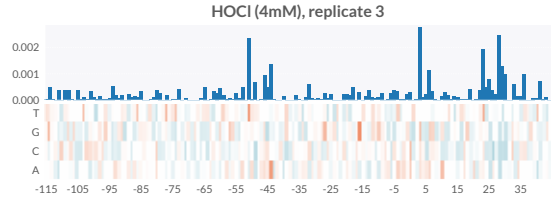


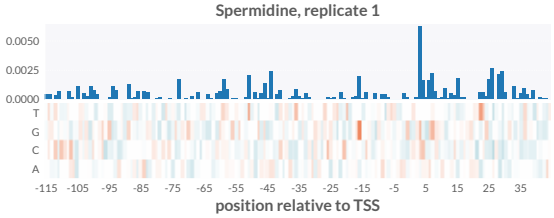












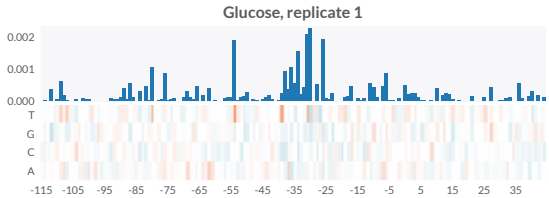
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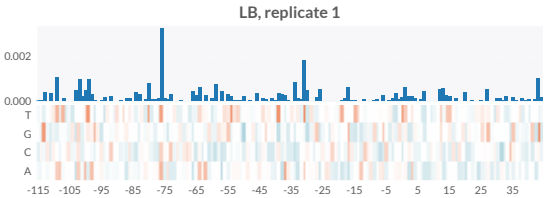


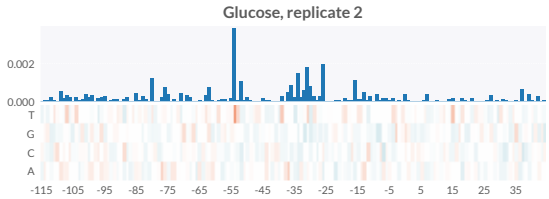
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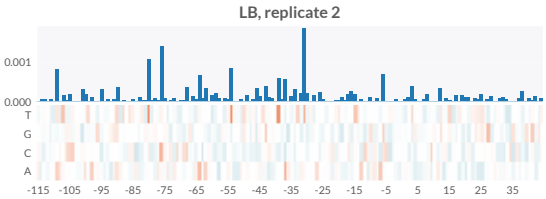


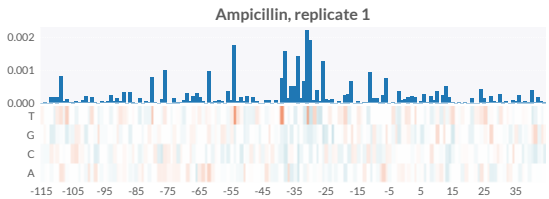
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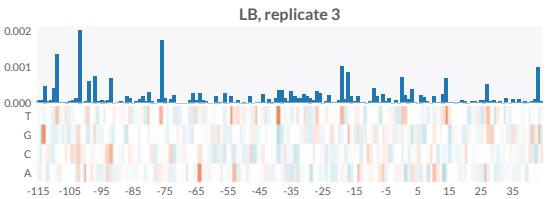


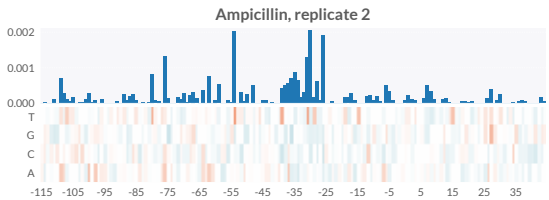


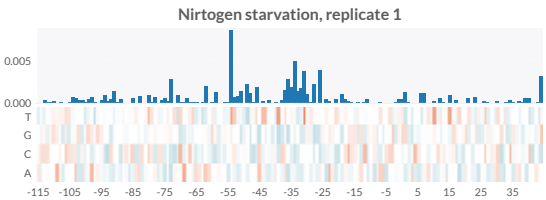


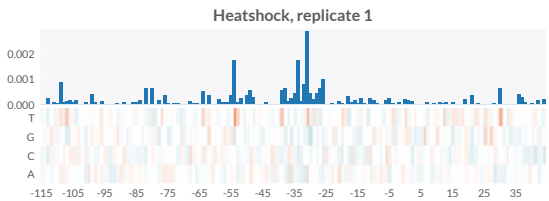


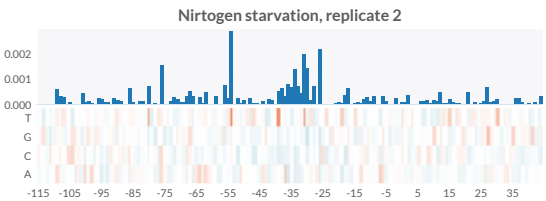


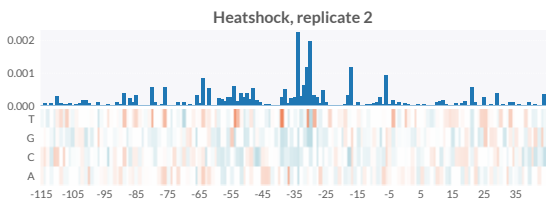


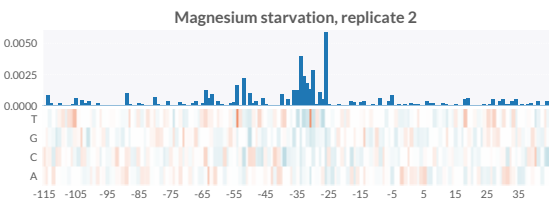


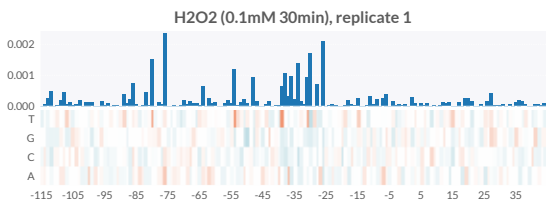


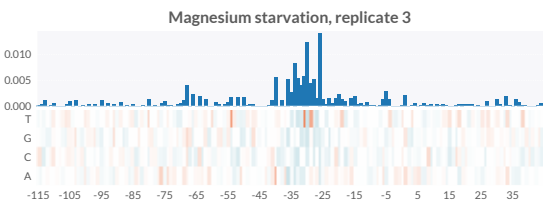


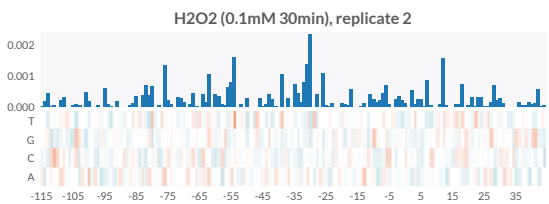


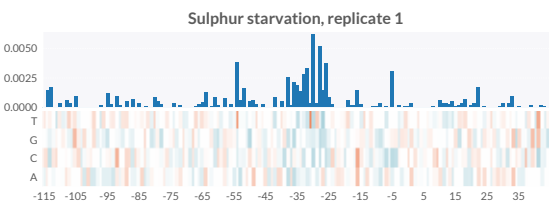




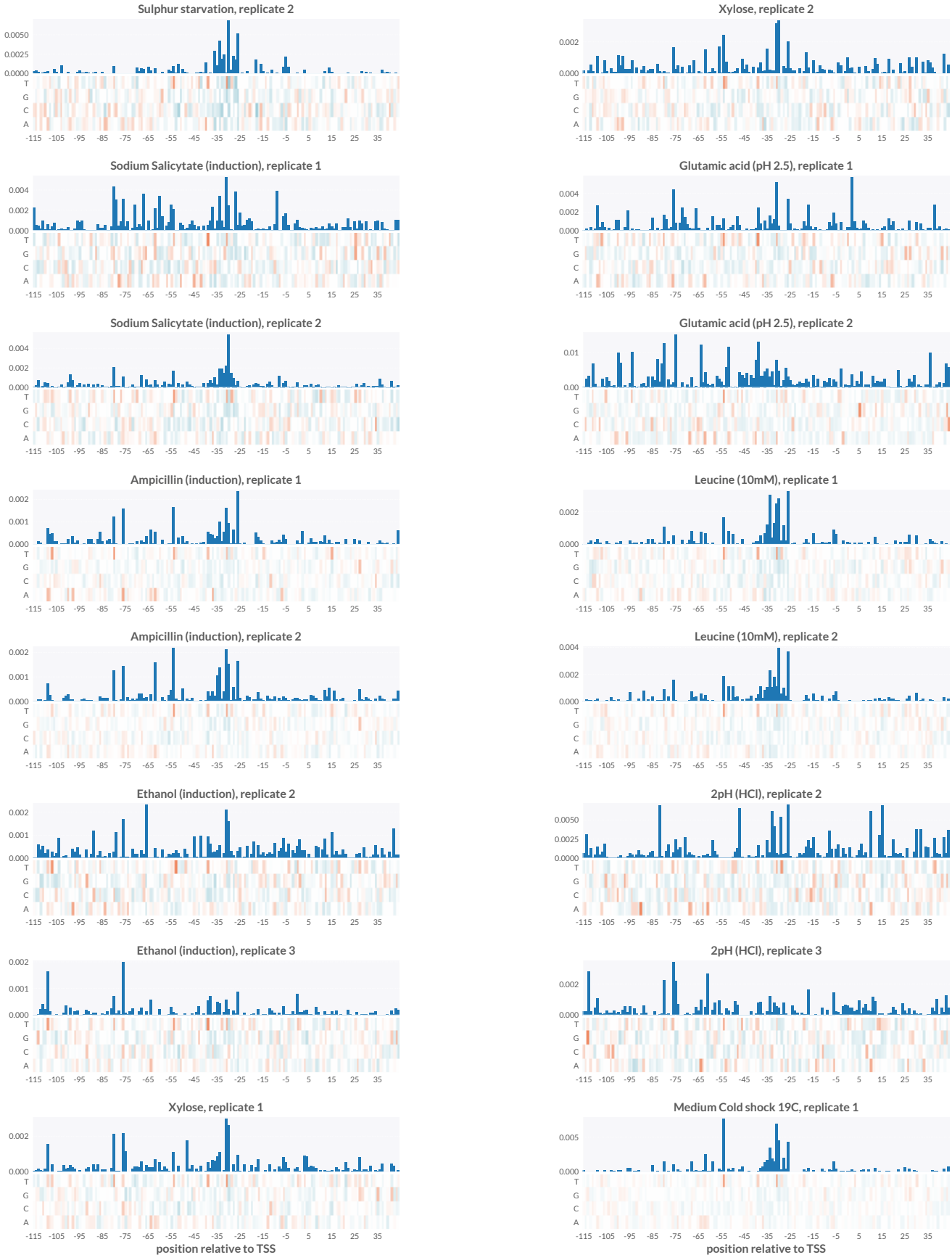




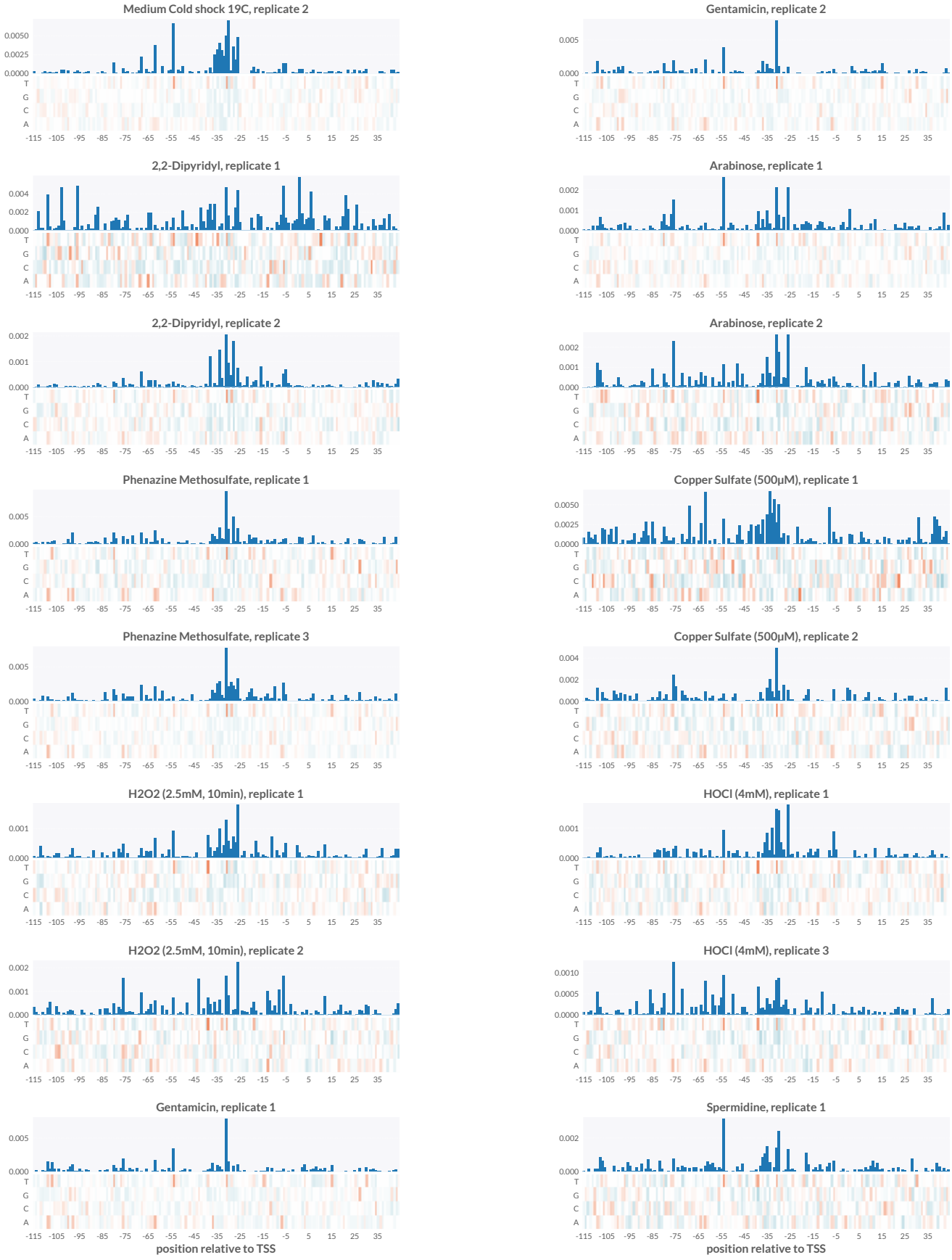




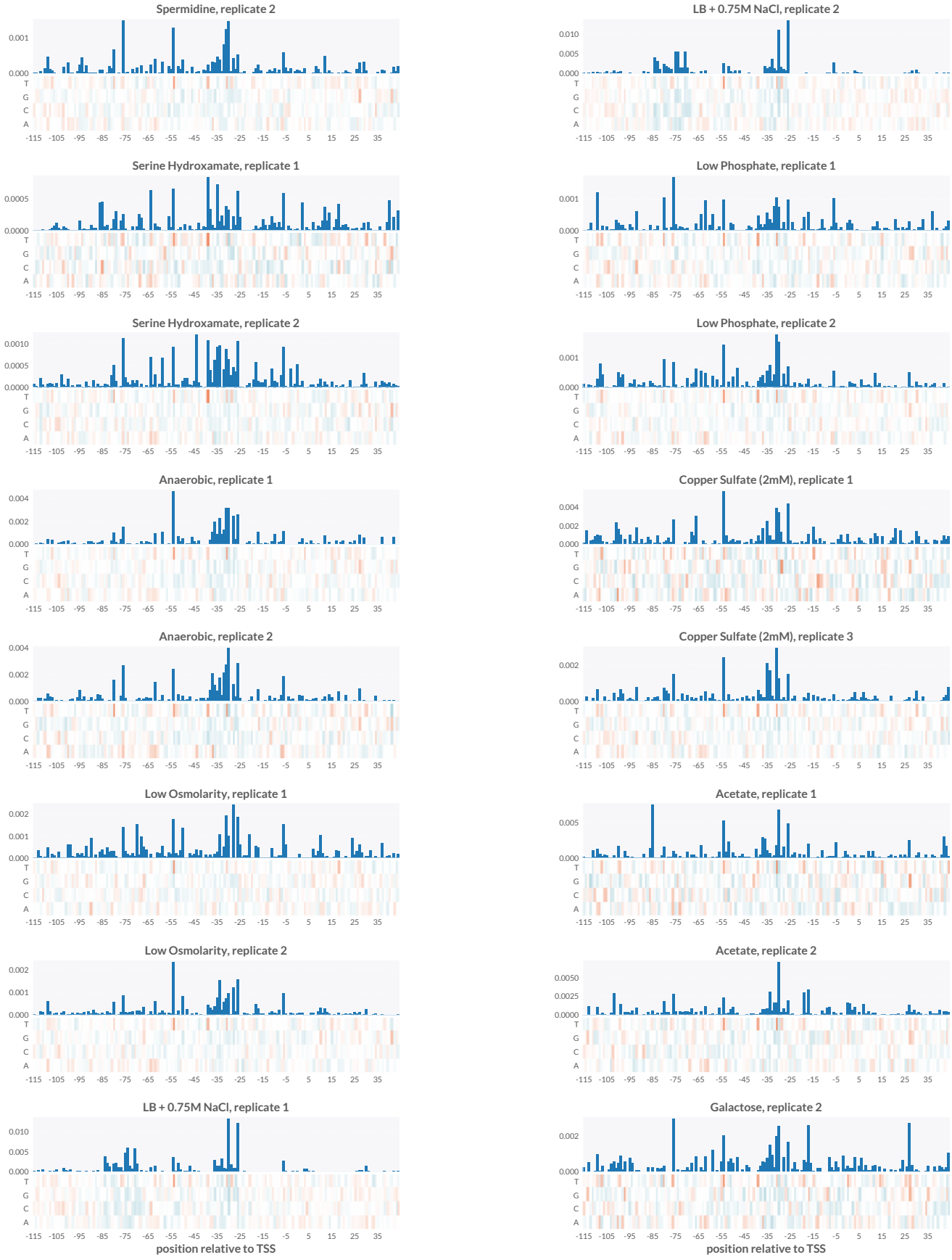
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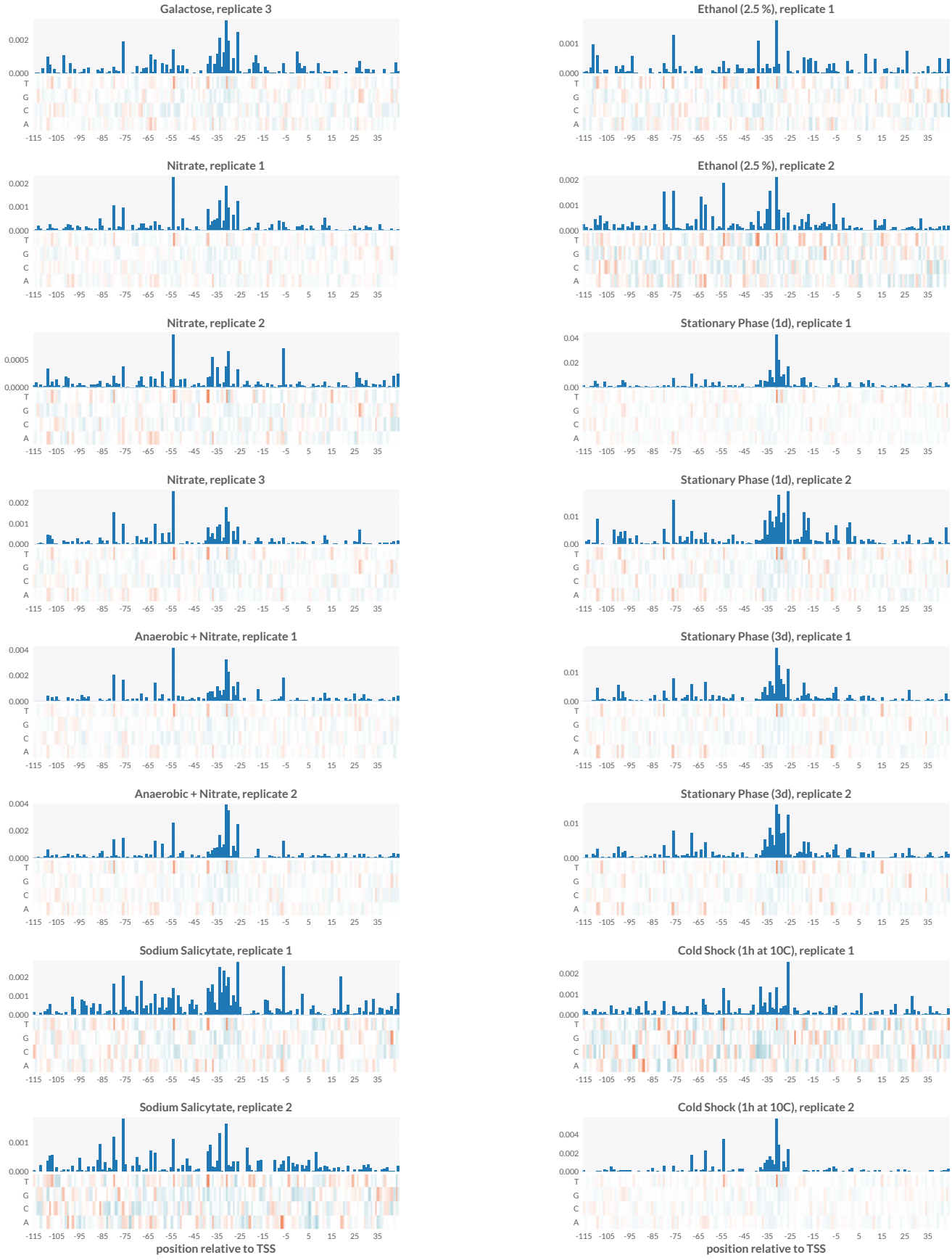
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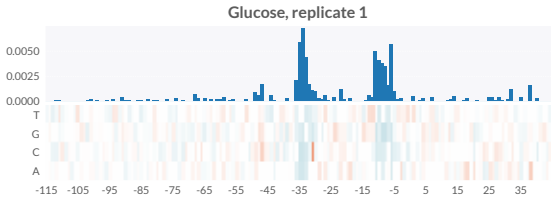
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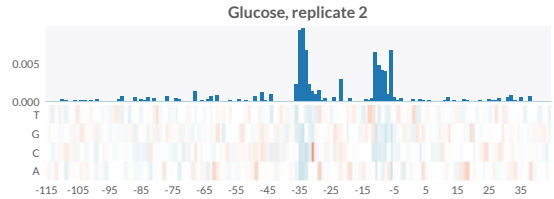


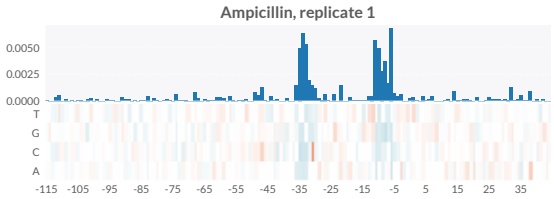
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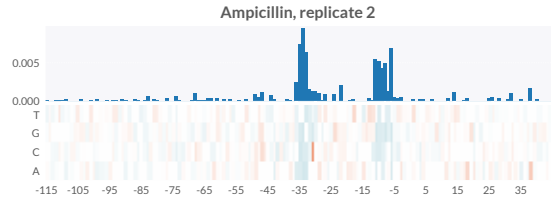


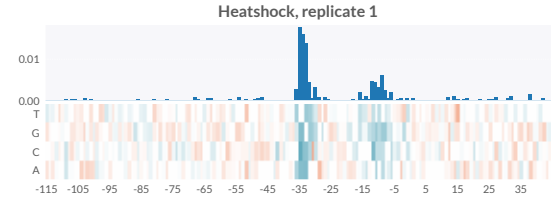
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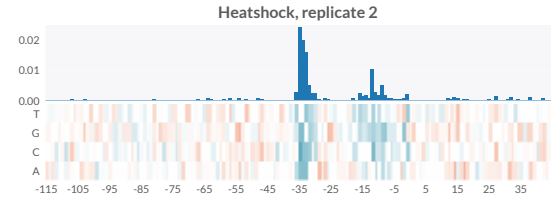

Glucose, replicate 1
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0.0025
0.0000
T
G
C
A
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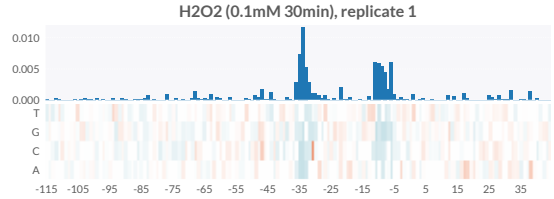

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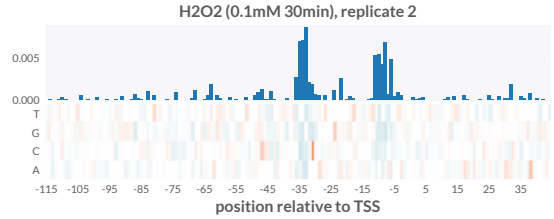

Ampicillin, replicate 1
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0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

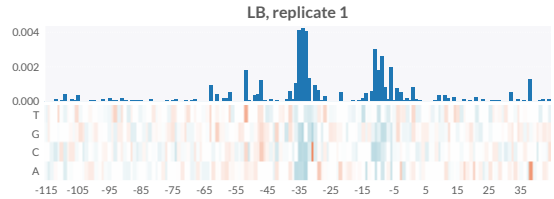

Ampicillin, replicate 2
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0.000
T
G
C
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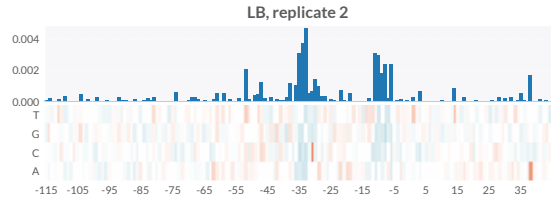

Heatshock, replicate 1
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0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

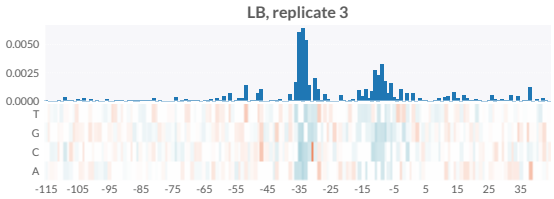

Heatshock, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

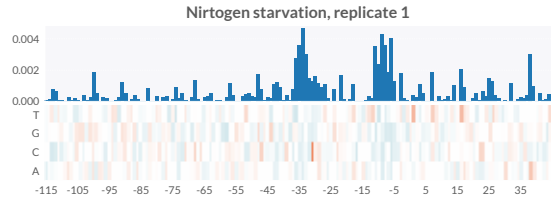

H2O2 (0.1mM 30min), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

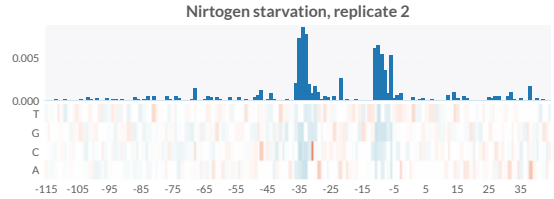

H2O2 (0.1mM 30min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

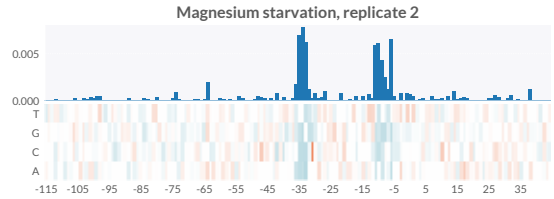

LB, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

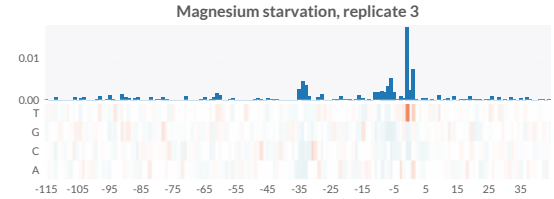

LB, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

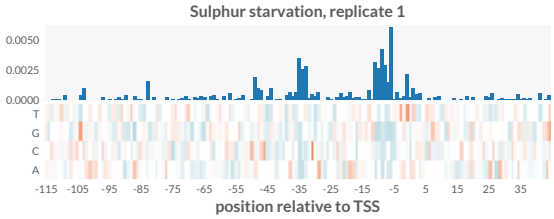

LB, replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Nirtogen starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

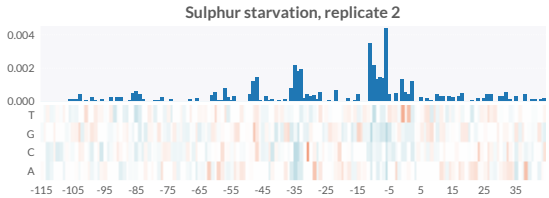

Nirtogen starvation, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

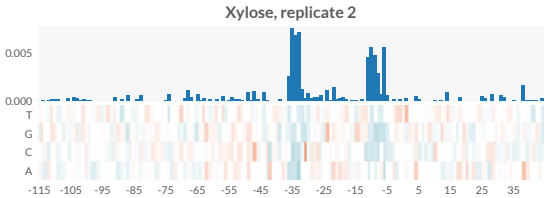

Magnesium starvation, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

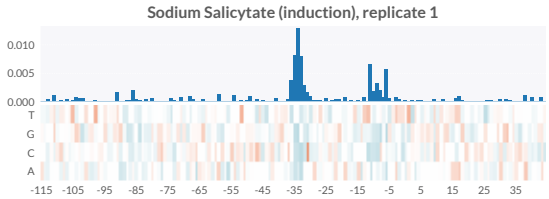

Magnesium starvation, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

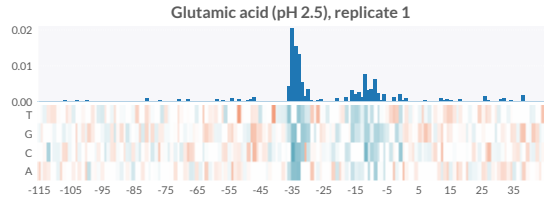

Sulphur starvation, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

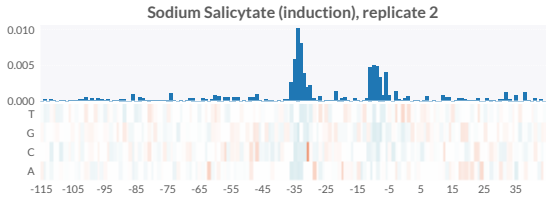
ybeDp

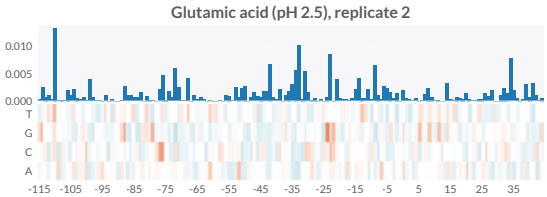

Sulphur starvation, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

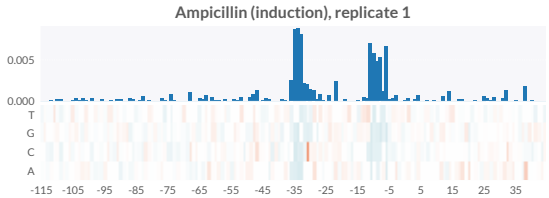

Xylose, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

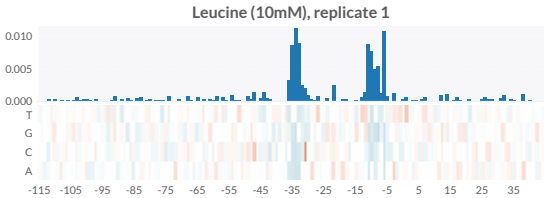

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

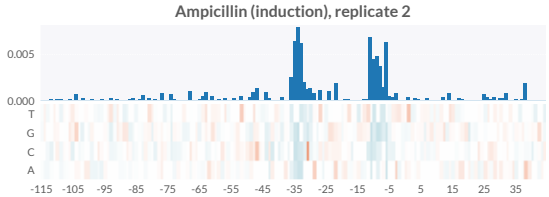

Glutamic acid (pH 2.5), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

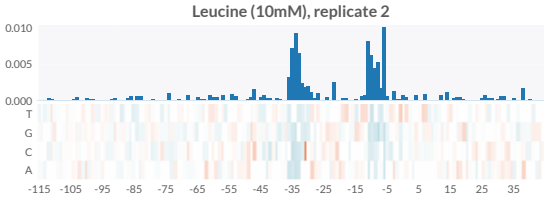

Sodium Salicytate (induction), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

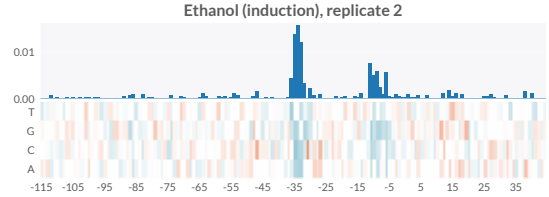

Glutamic acid (pH 2.5), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

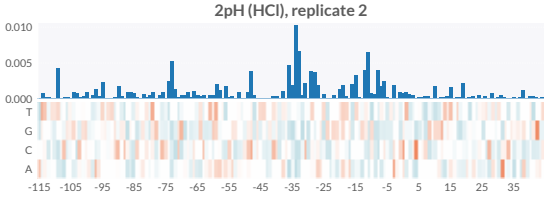

Ampicillin (induction), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

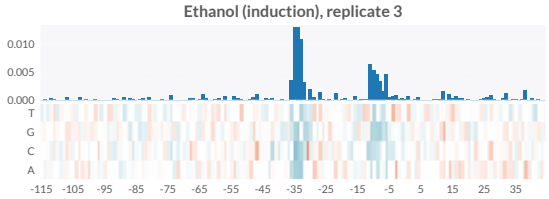

Leucine (10mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

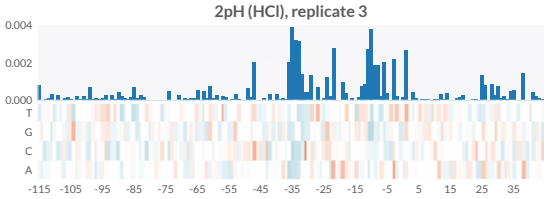

Ampicillin (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

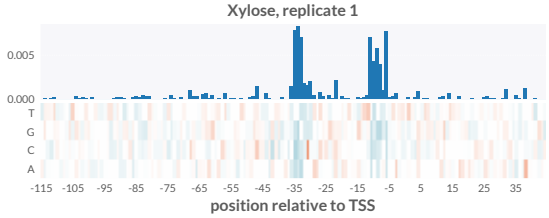

Leucine (10mM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

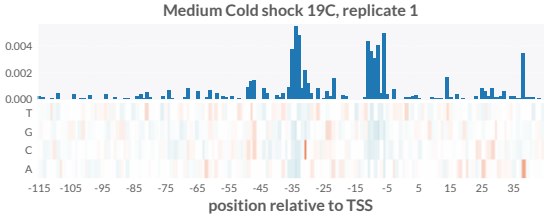

Ethanol (induction), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

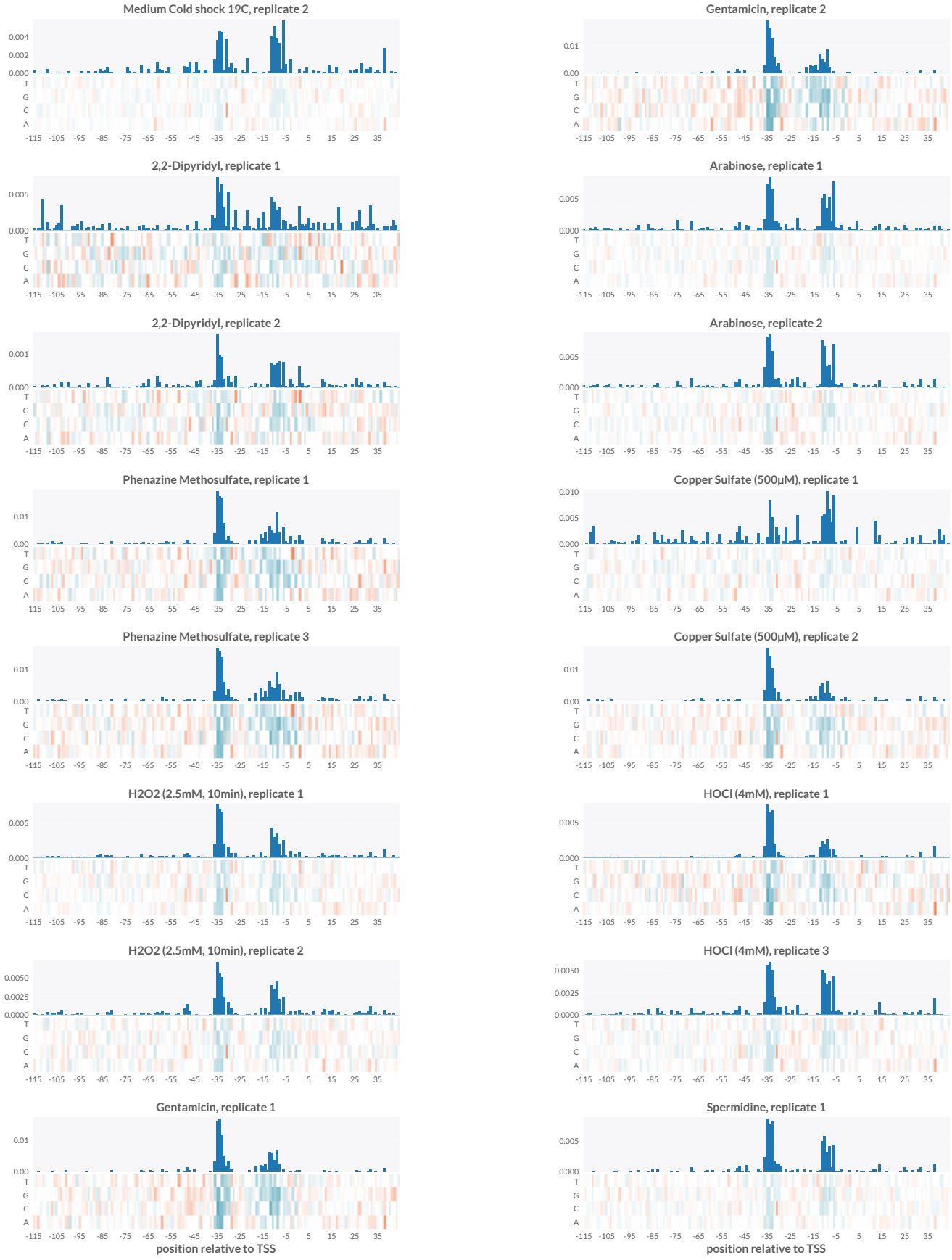

Ethanol (induction), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

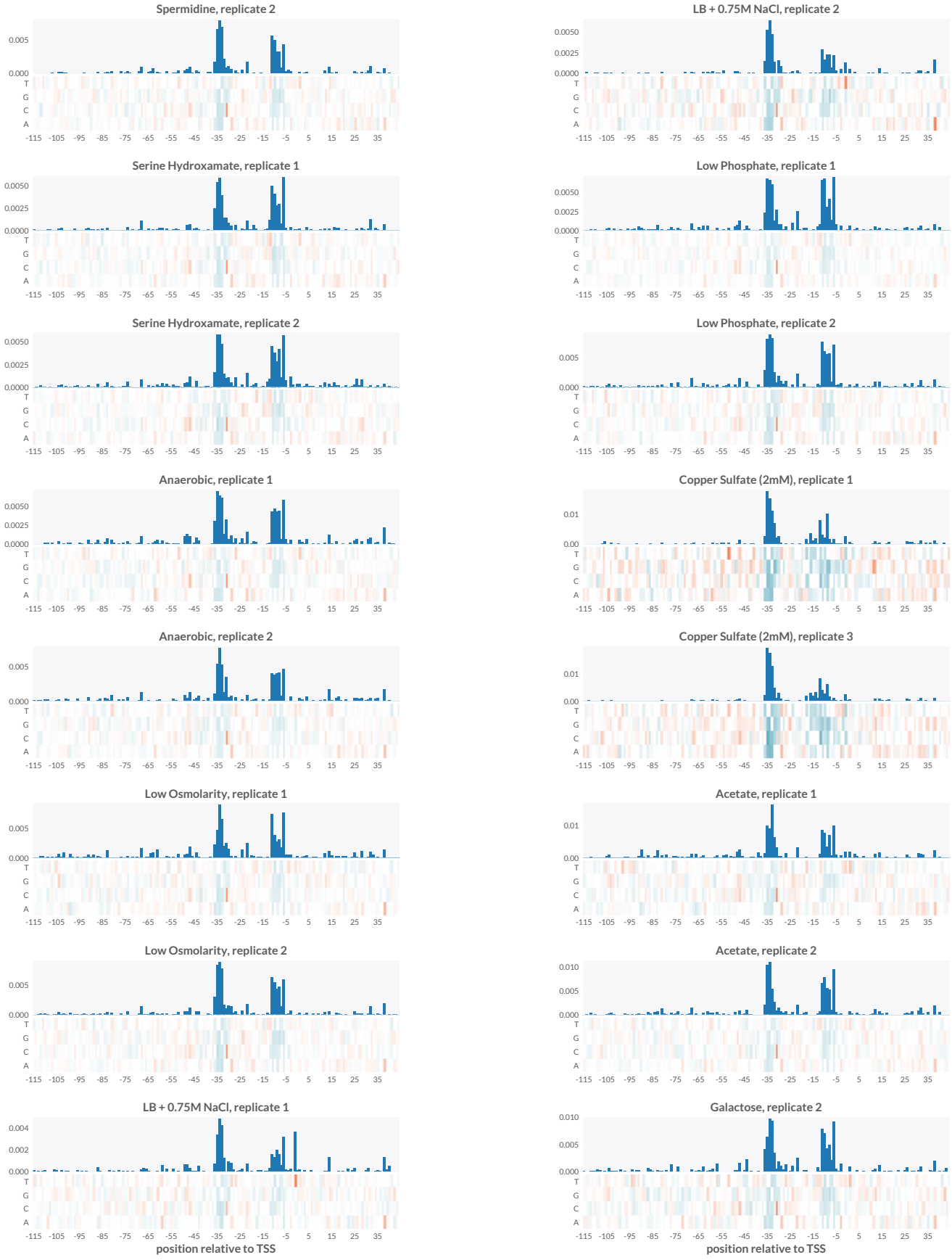

Xylose, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Medium Cold shock 19C, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

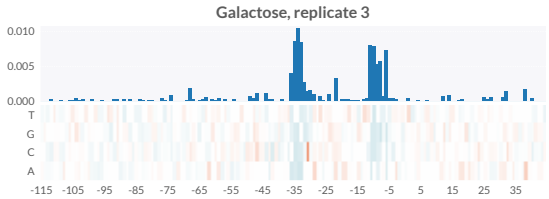
ybeDp

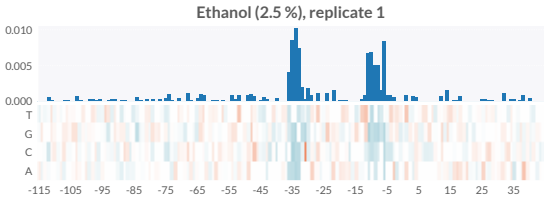

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

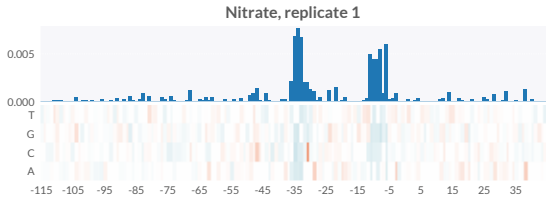
ybeDp

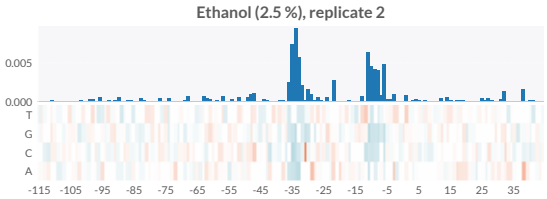

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

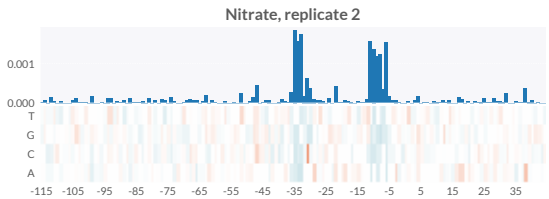
ybeDp

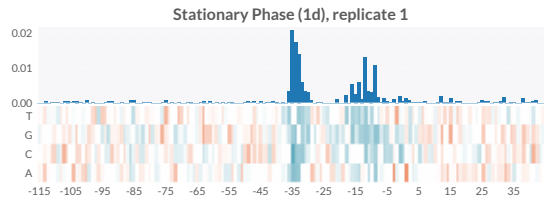

Galactose, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

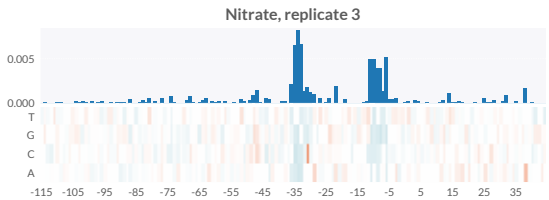

Ethanol (2.5 %), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

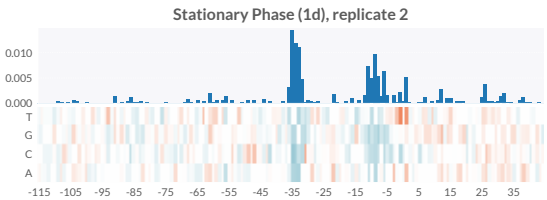

Nitrate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

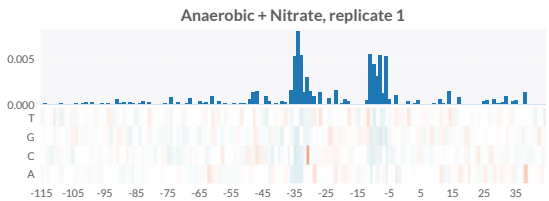

Ethanol (2.5 %), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

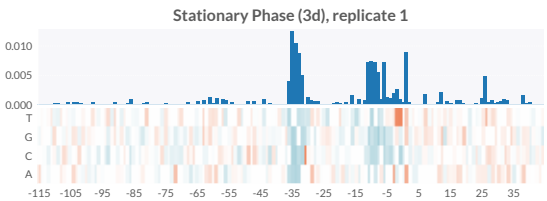

Nitrate, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

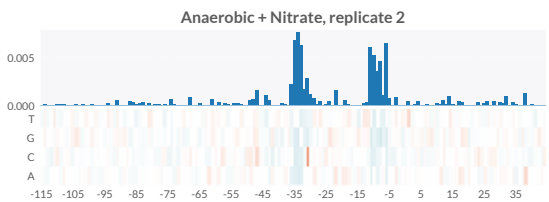

Stationary Phase (1d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

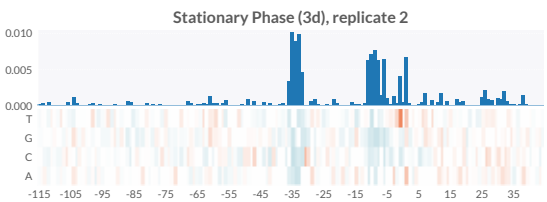

Nitrate, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

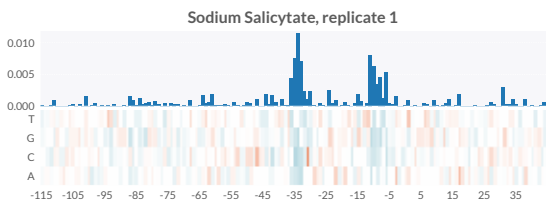

Stationary Phase (1d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

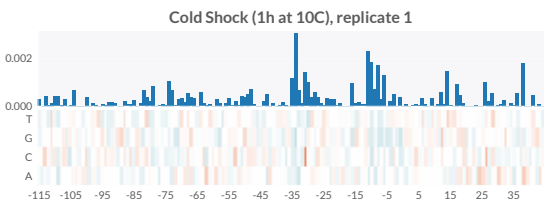

Anaerobic + Nitrate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

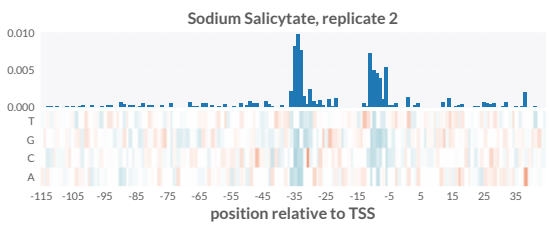

Stationary Phase (3d), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

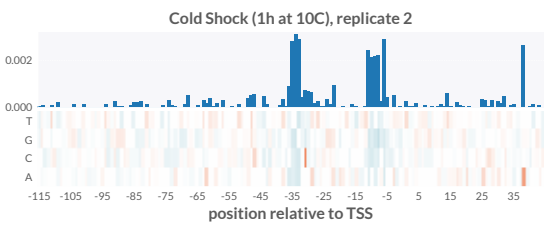

Anaerobic + Nitrate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

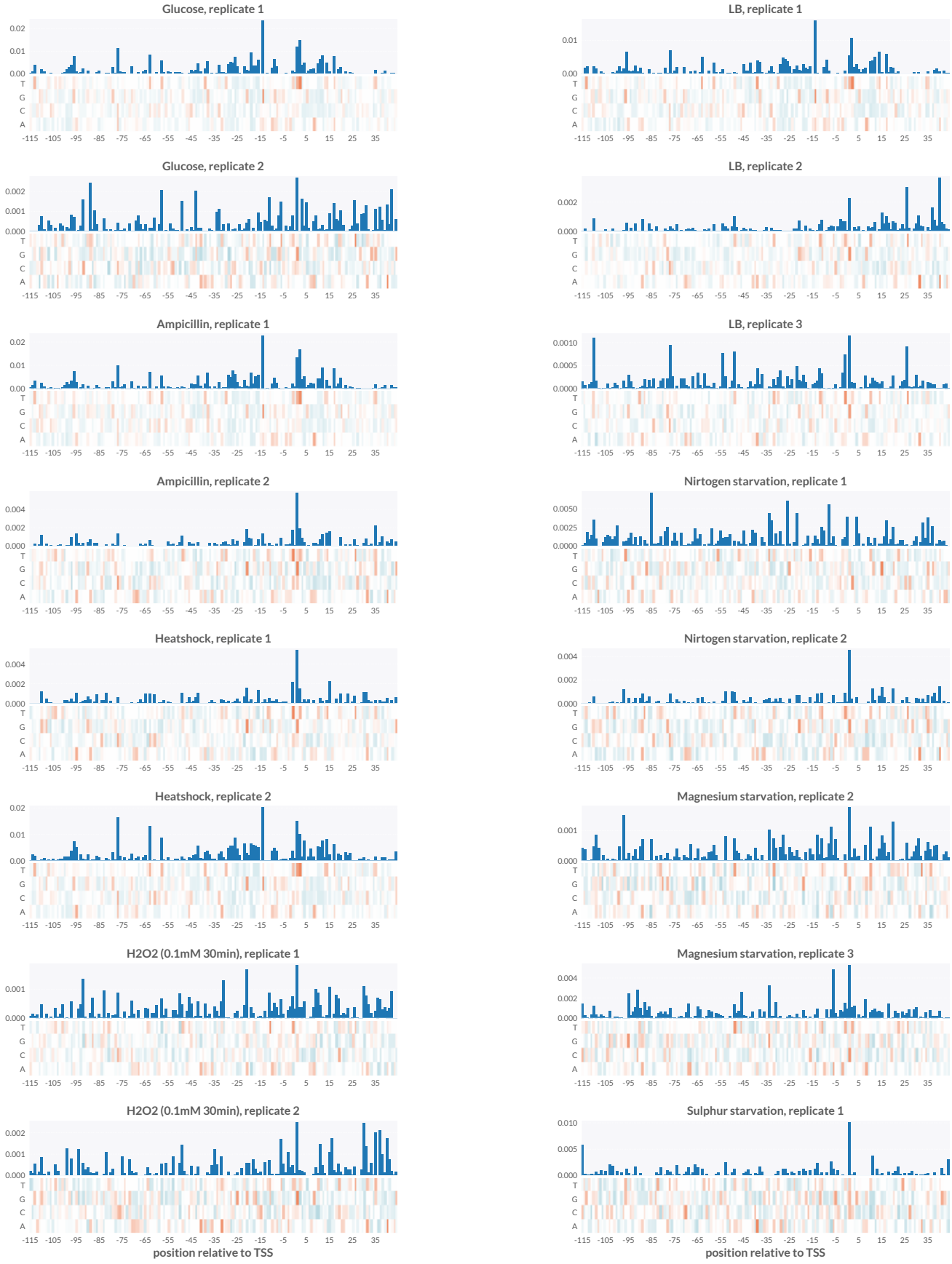

Sodium Salicytate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Sodium Salicytate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

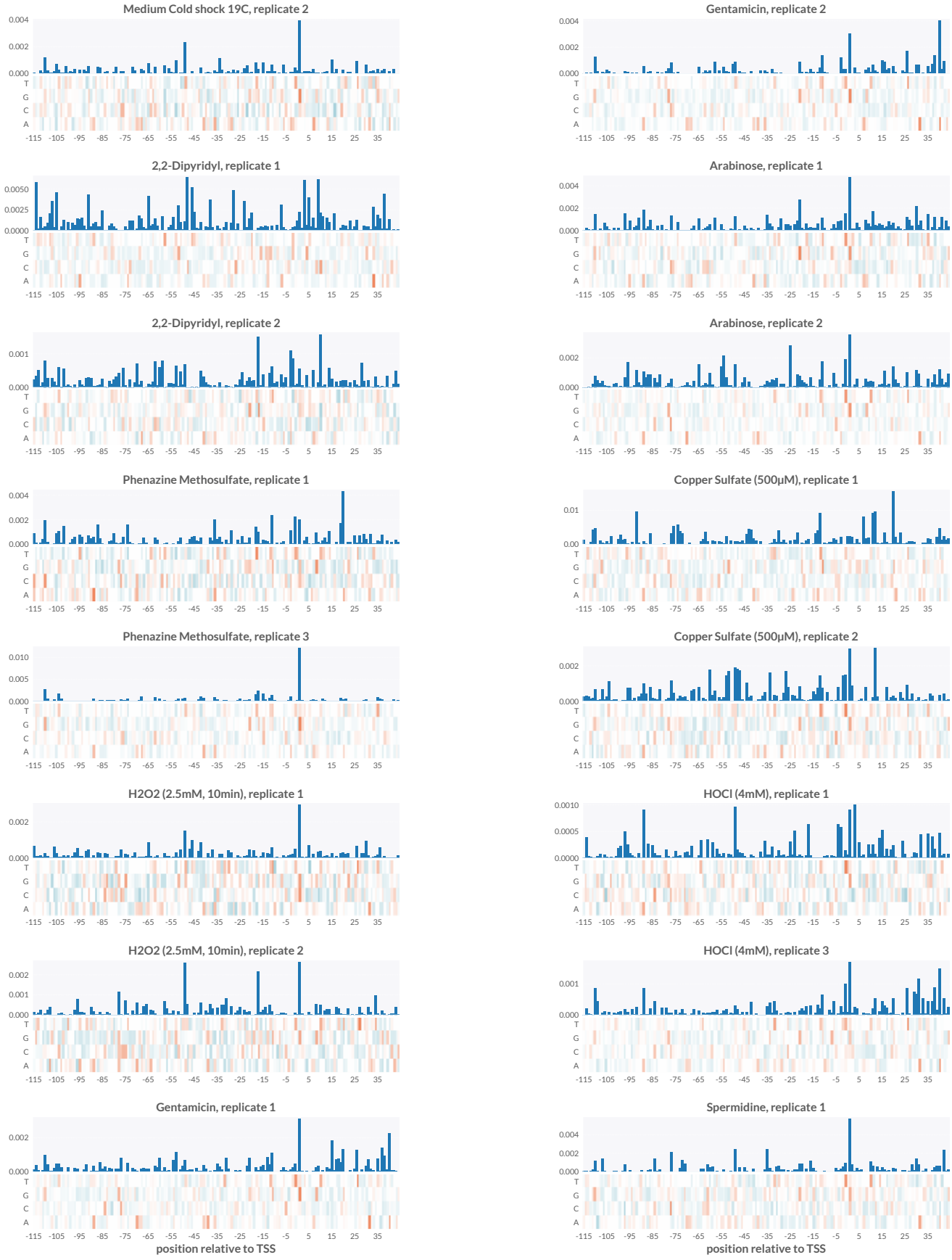
ybiY_ybiW_predicted



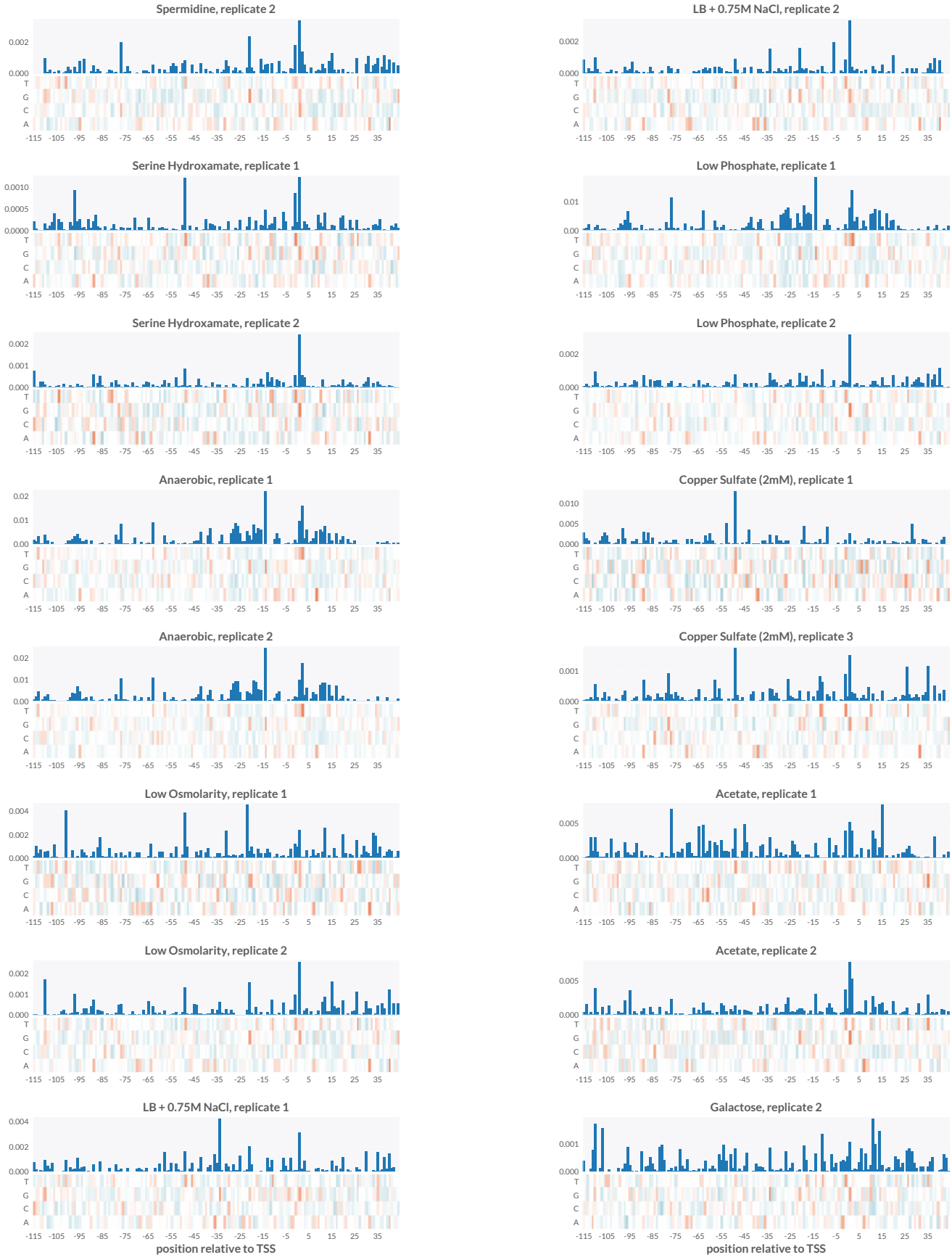
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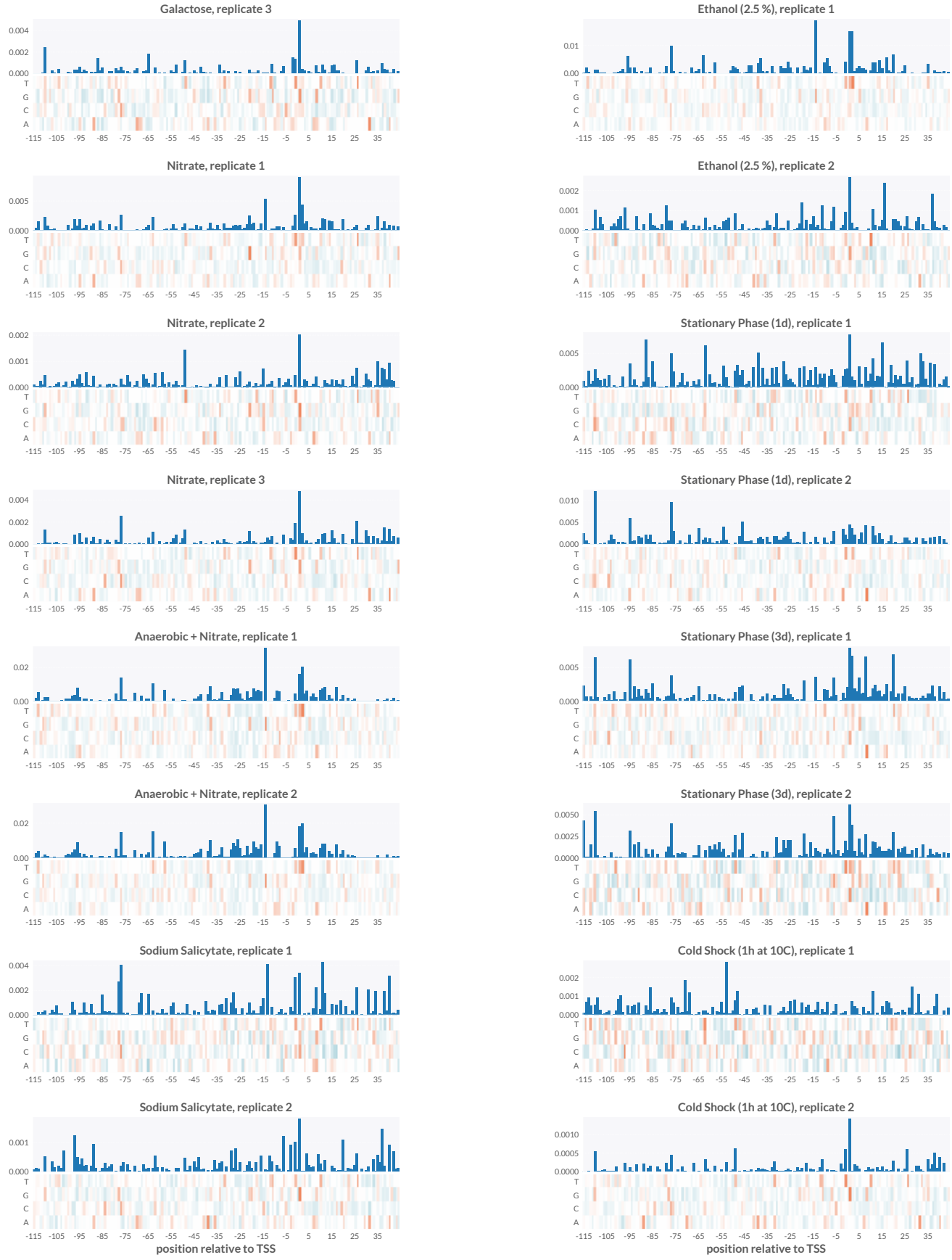
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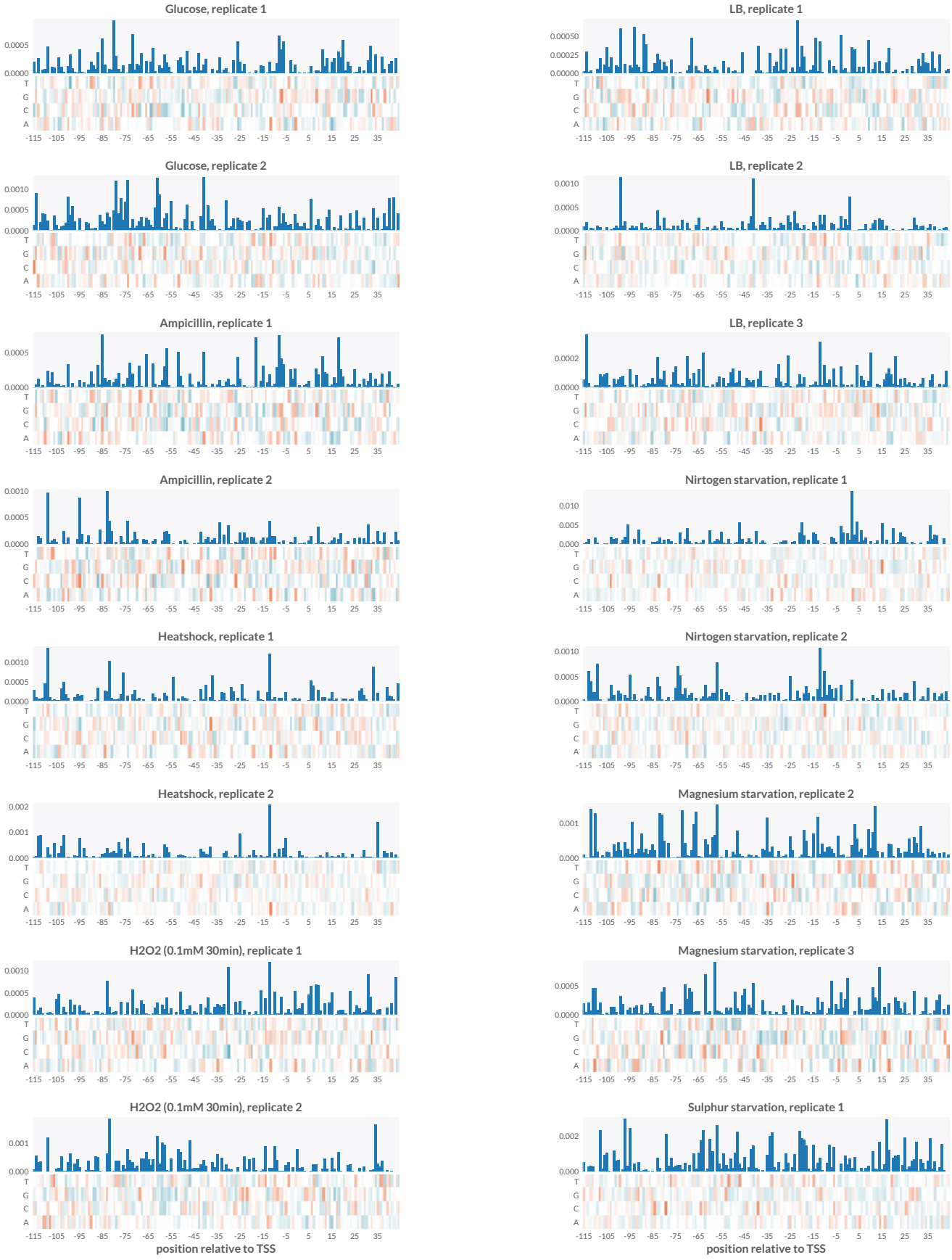
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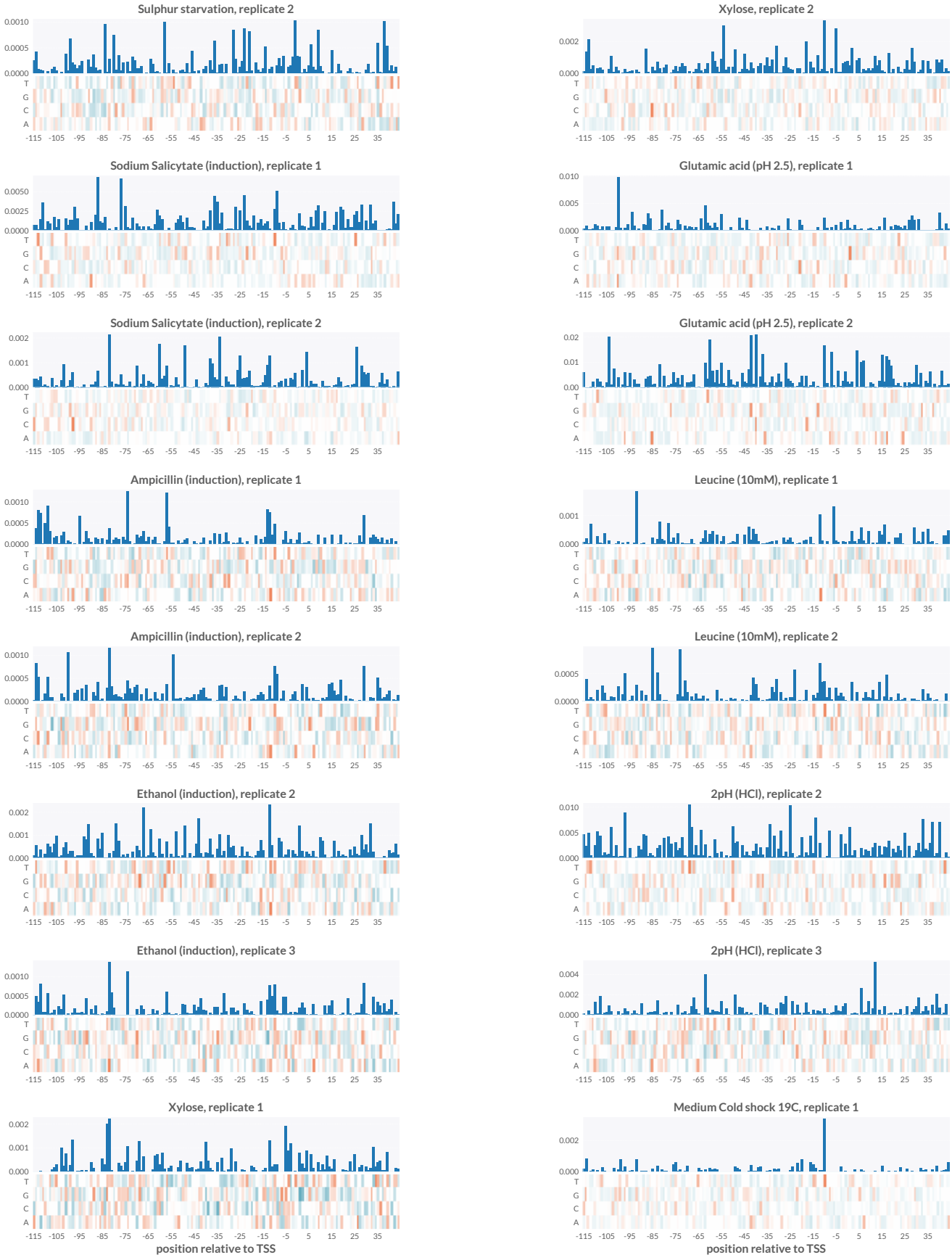
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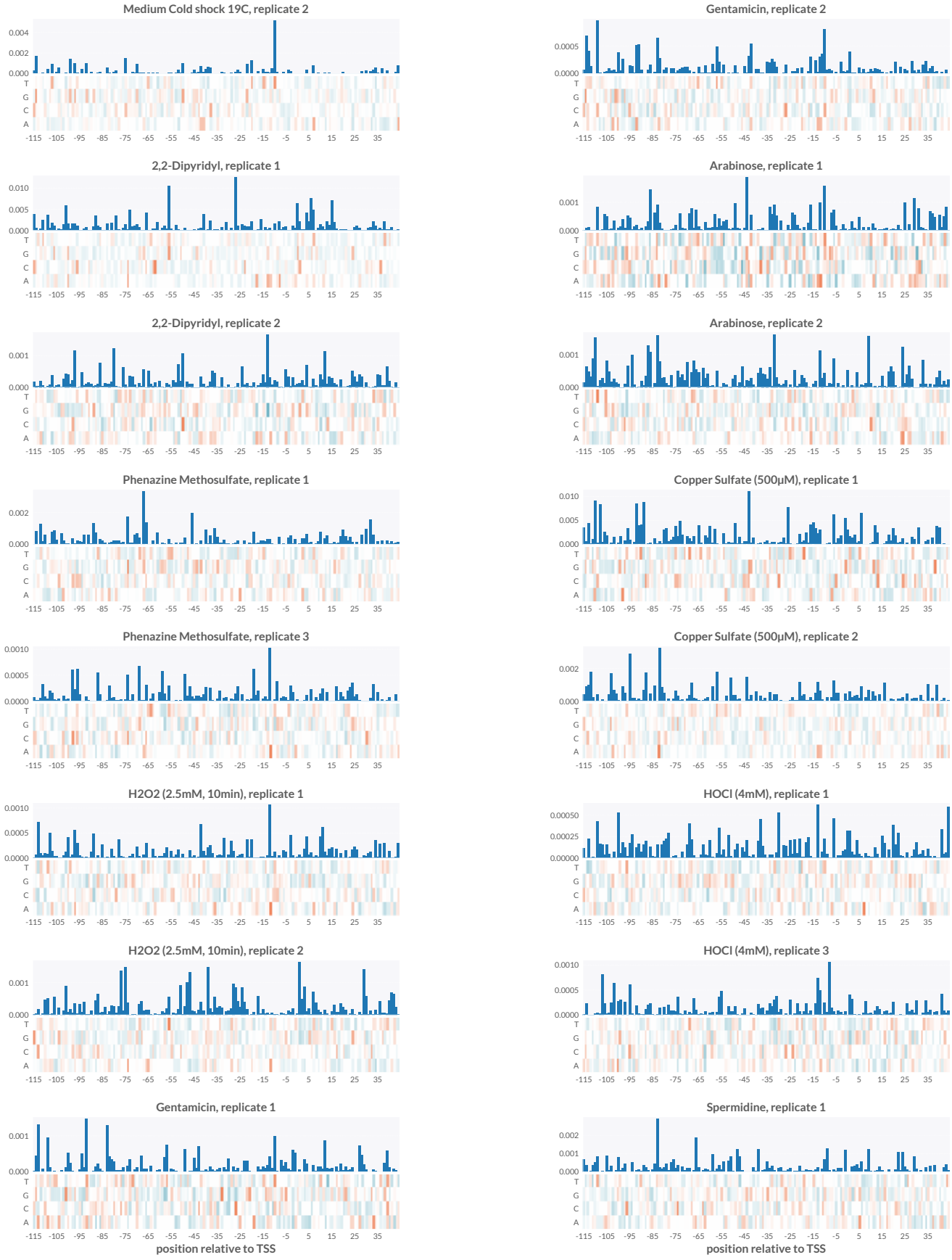
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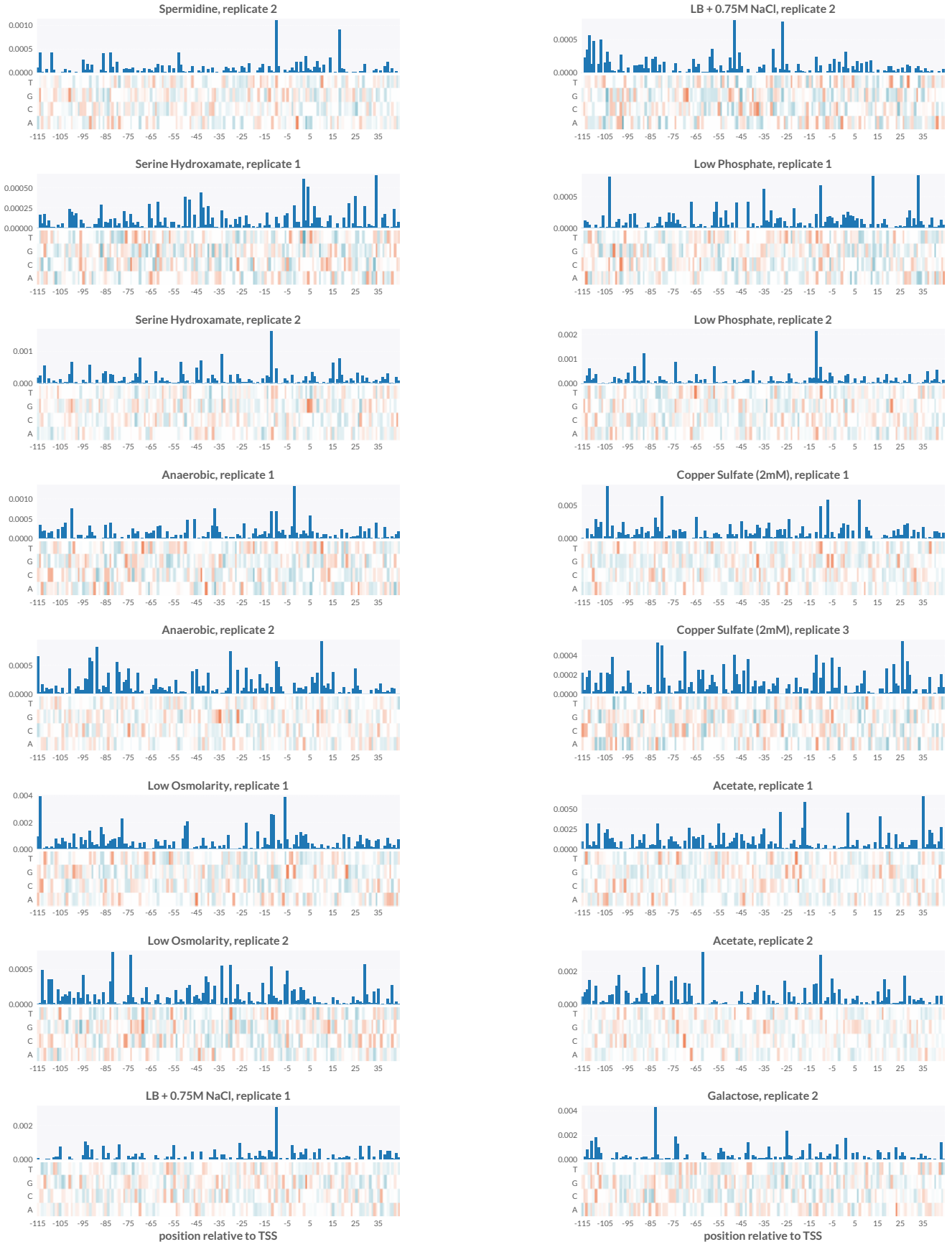
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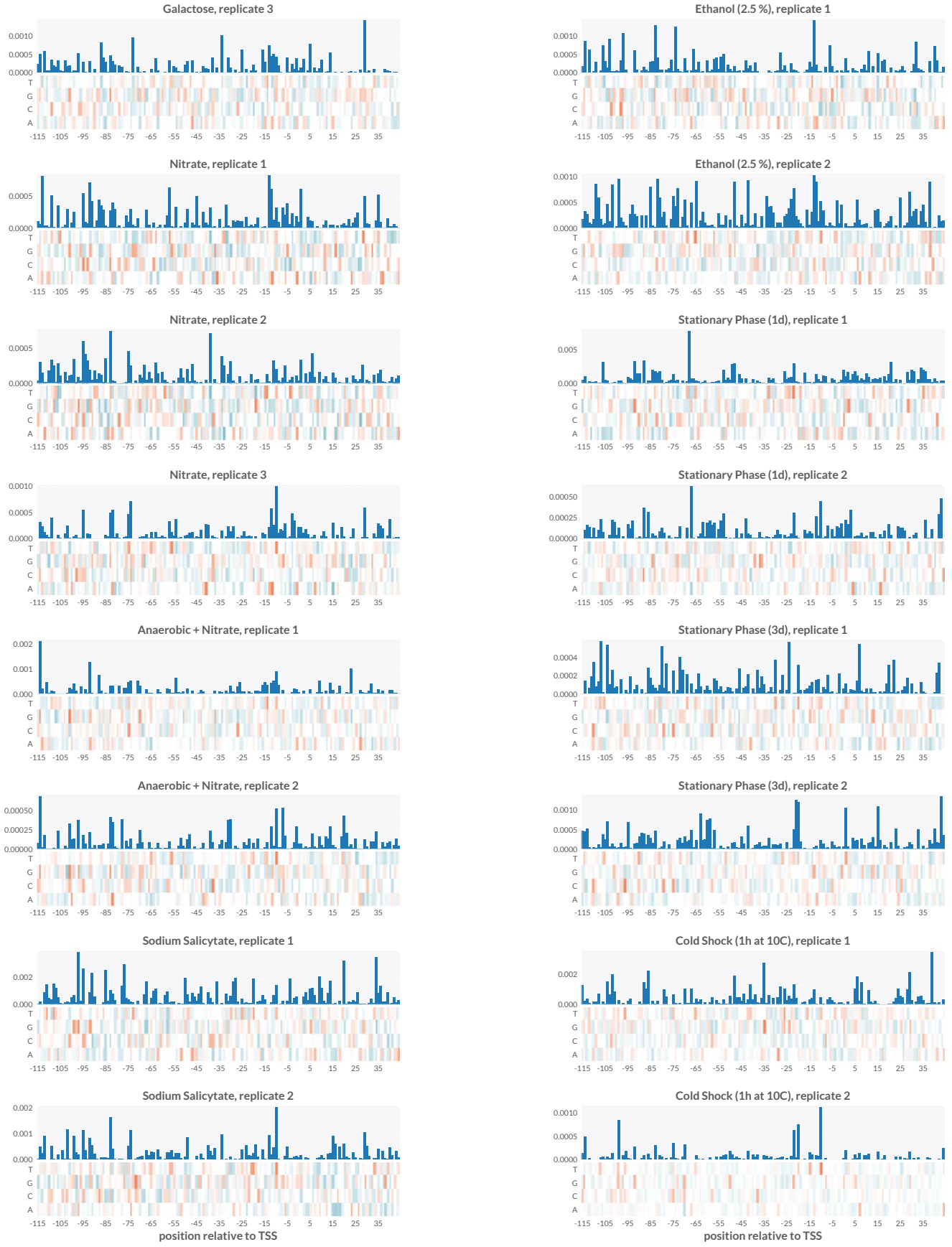
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ygeW_predicted



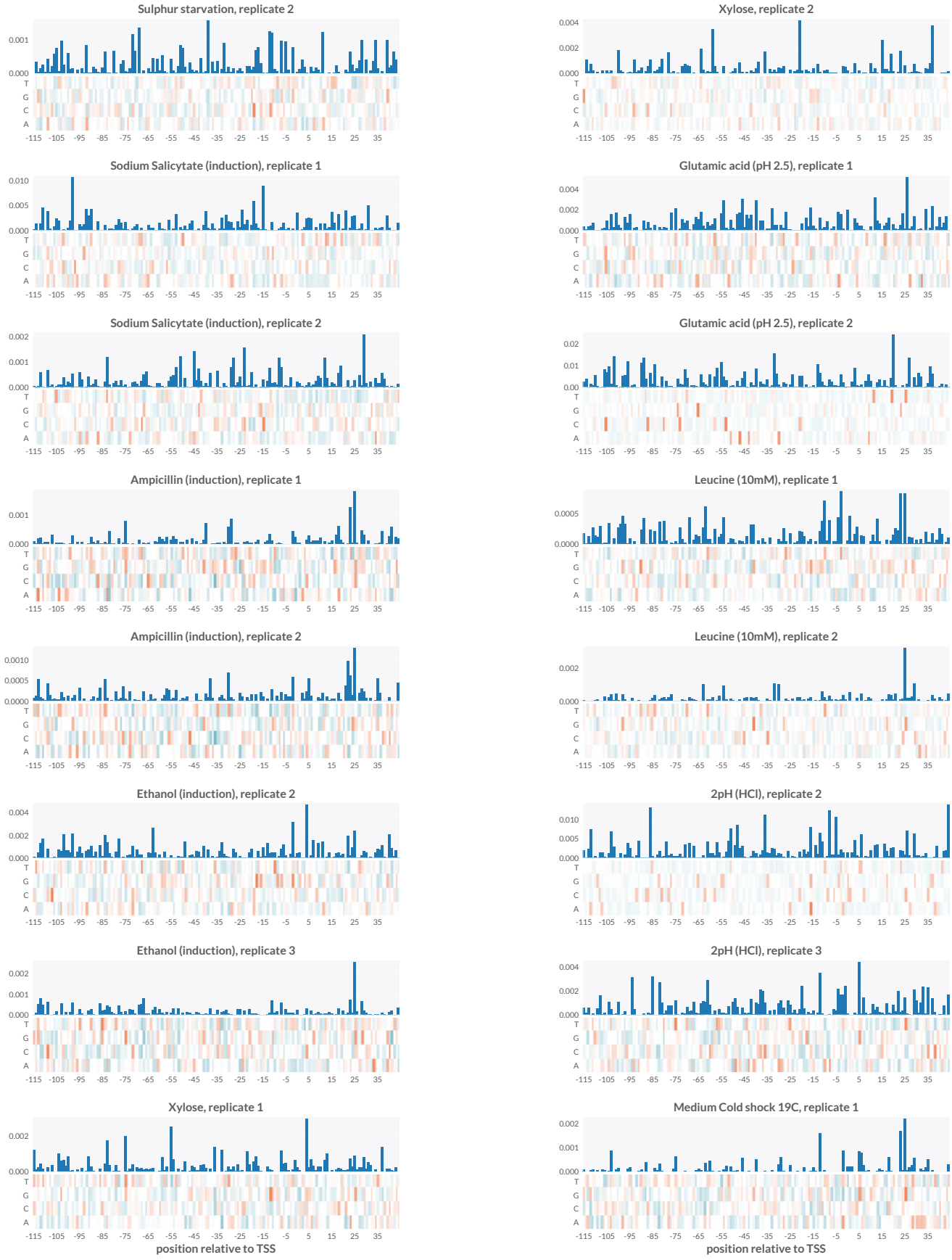
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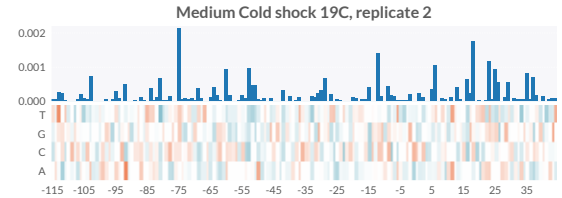
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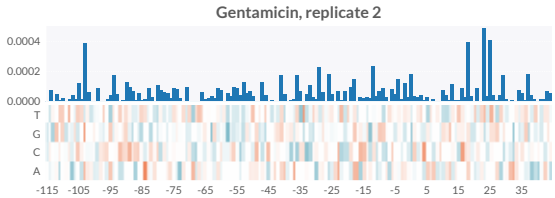


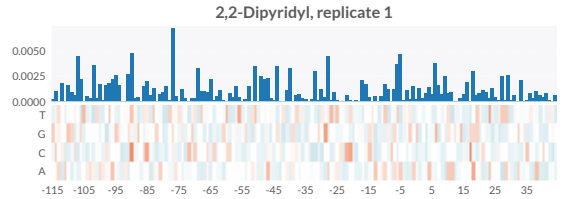
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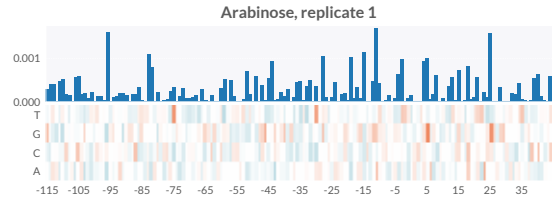


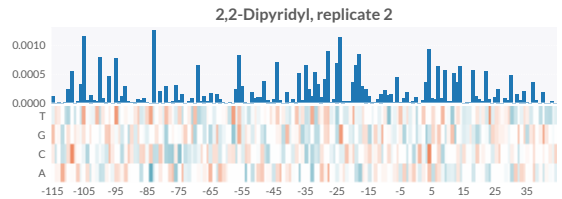
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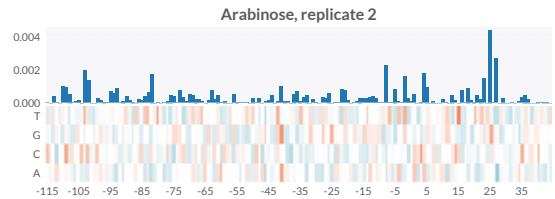


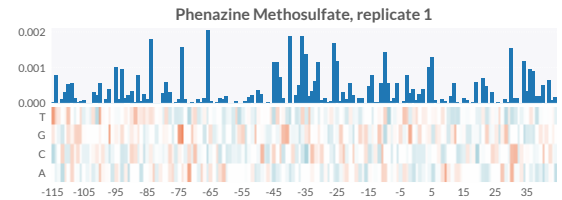


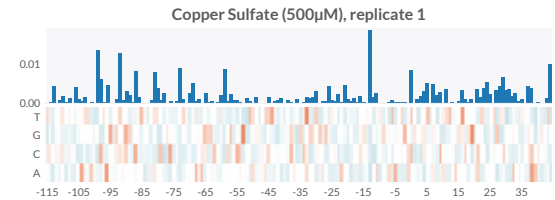


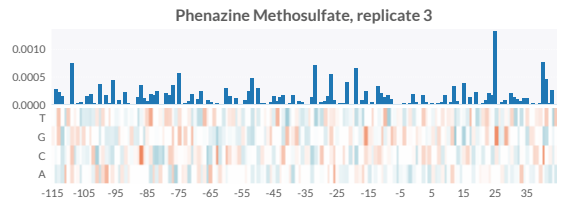


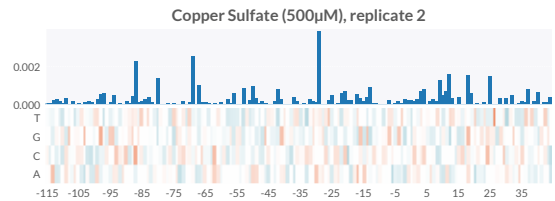


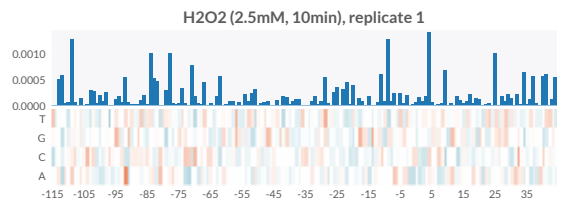


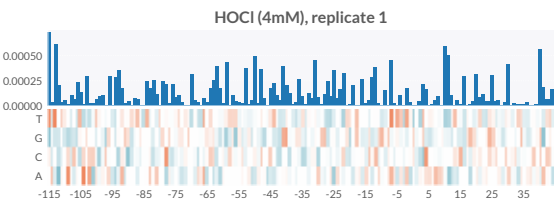


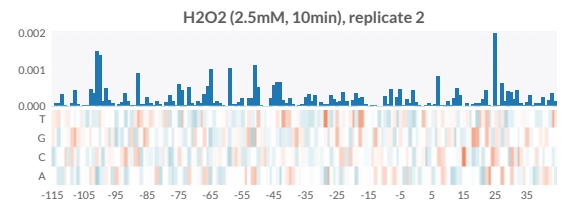


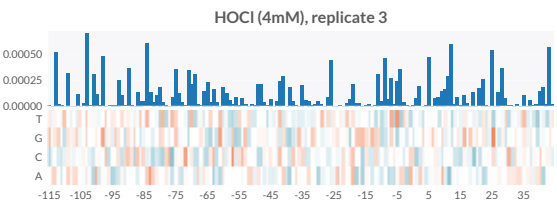


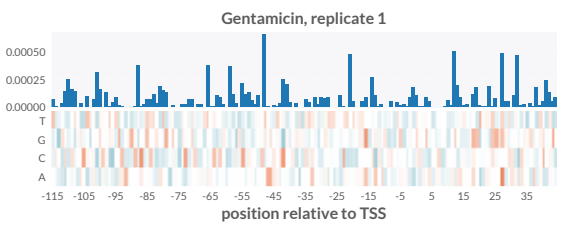


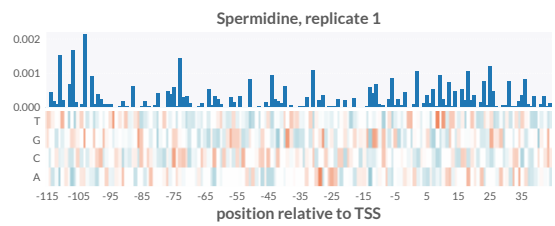




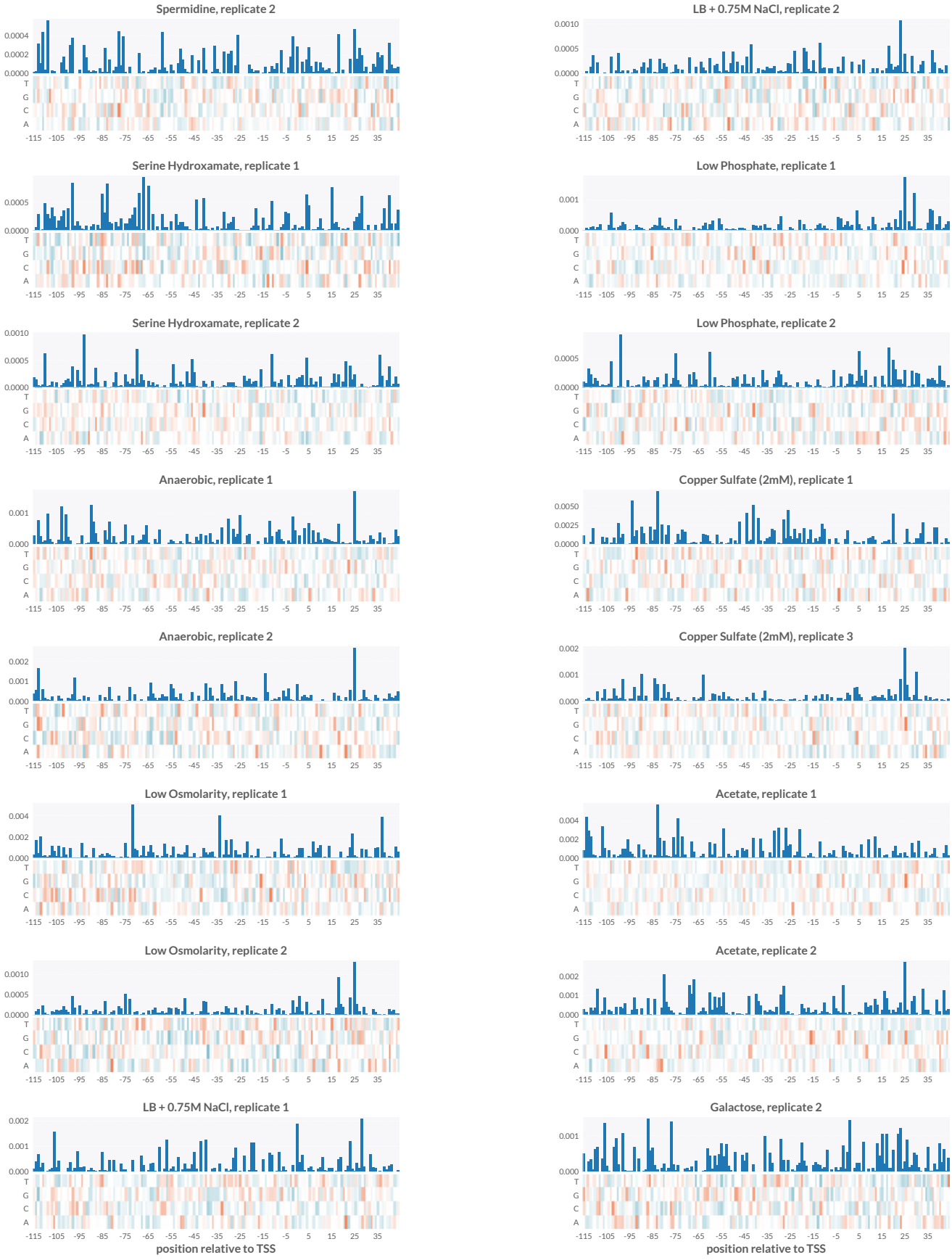




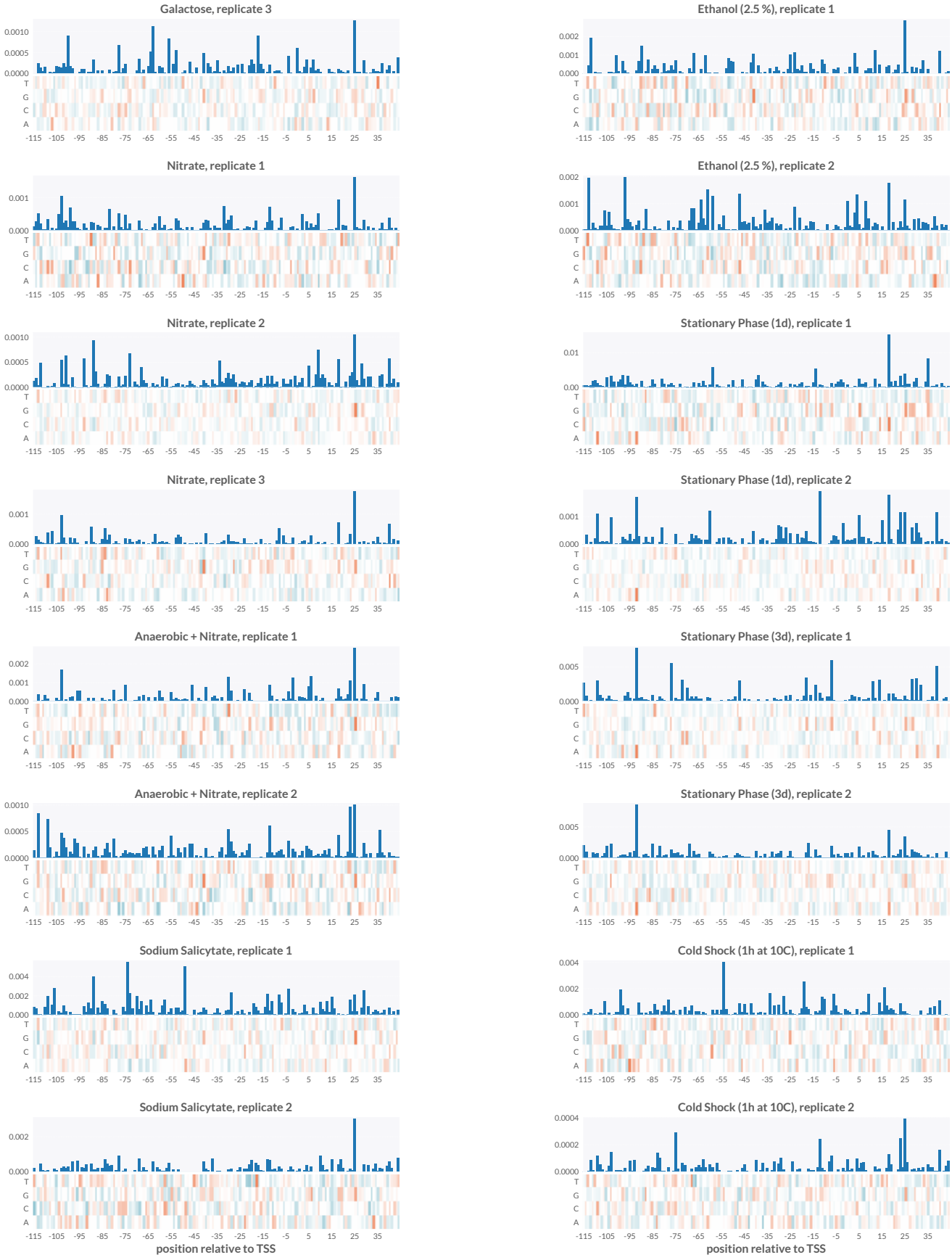




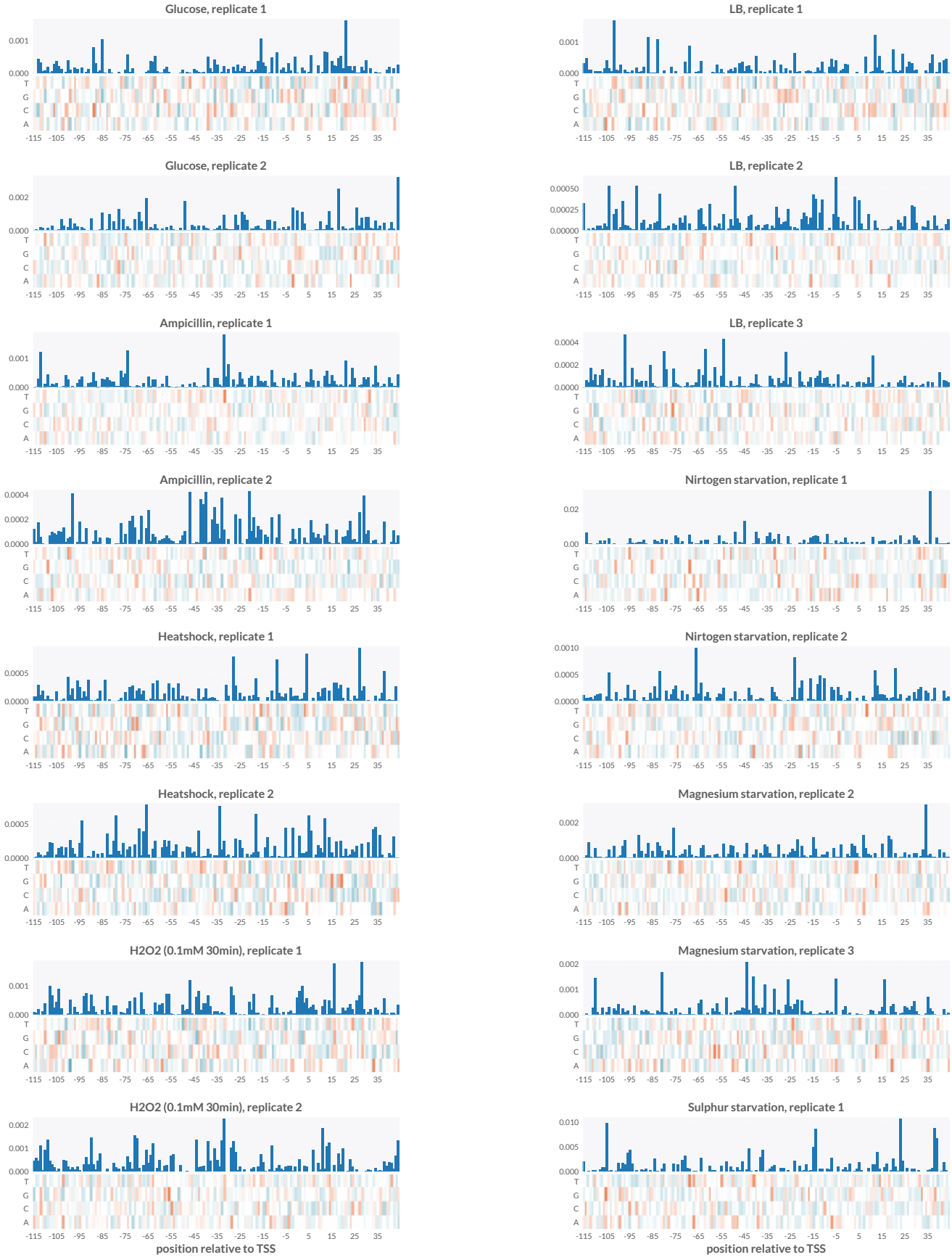
ygeX_predicted



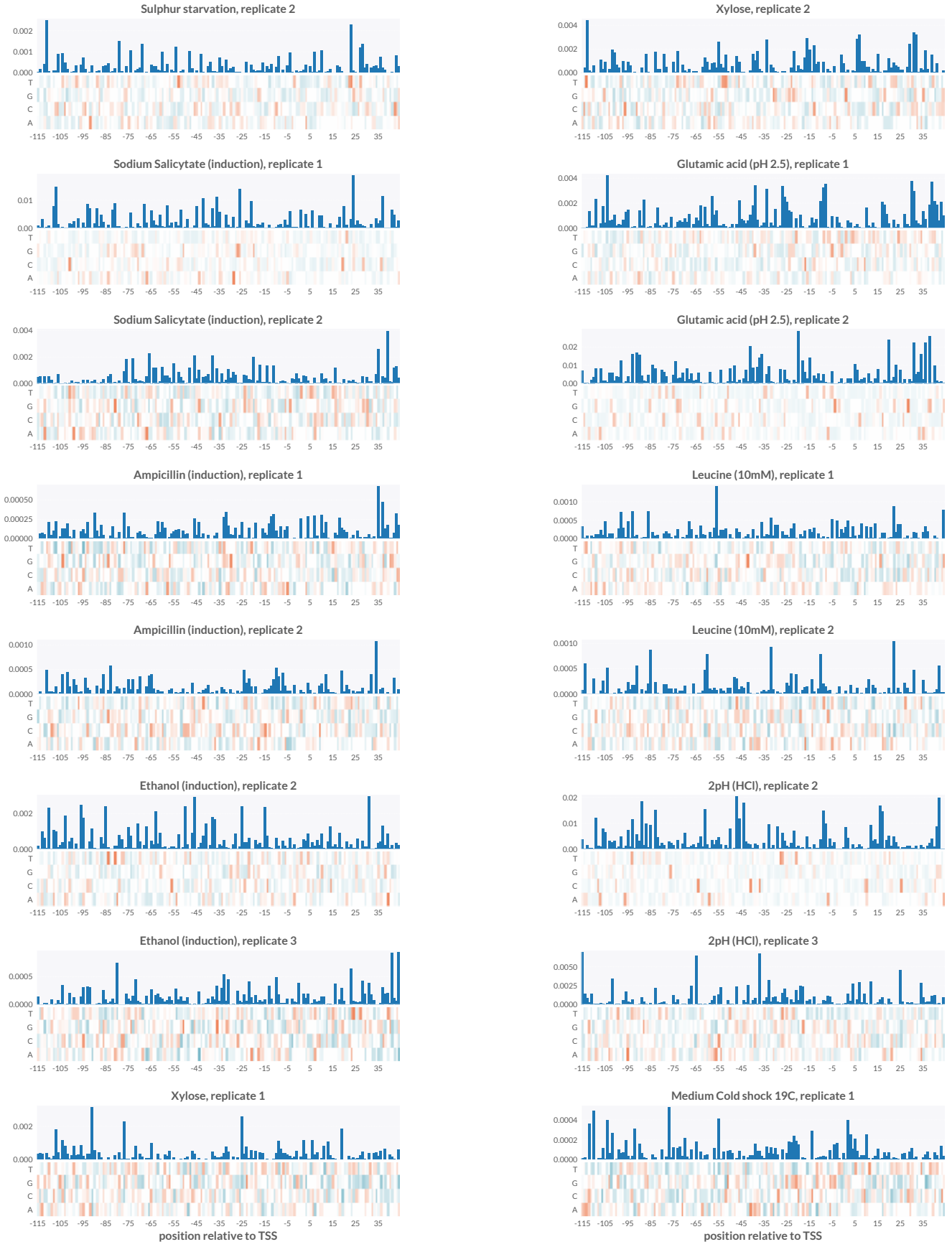
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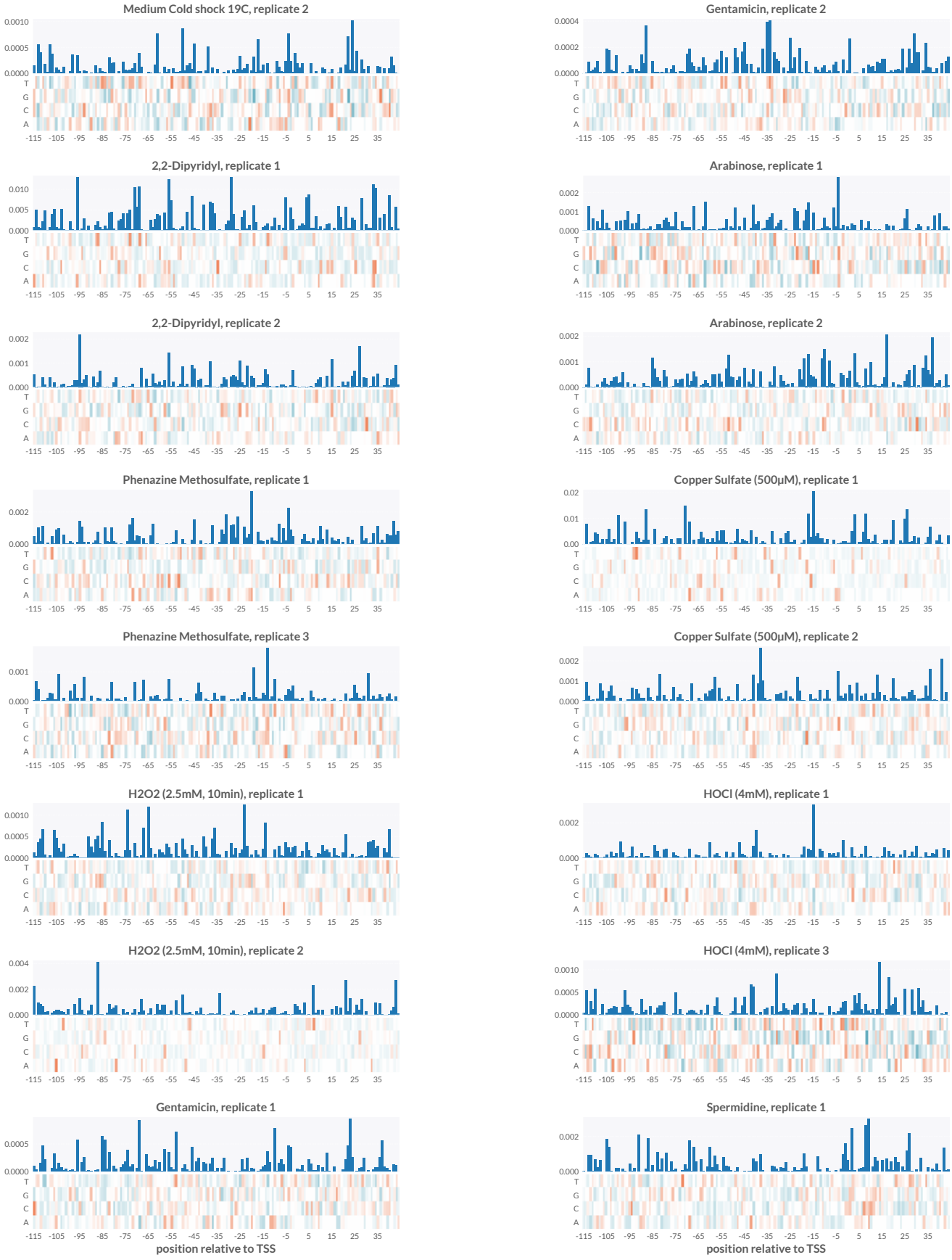
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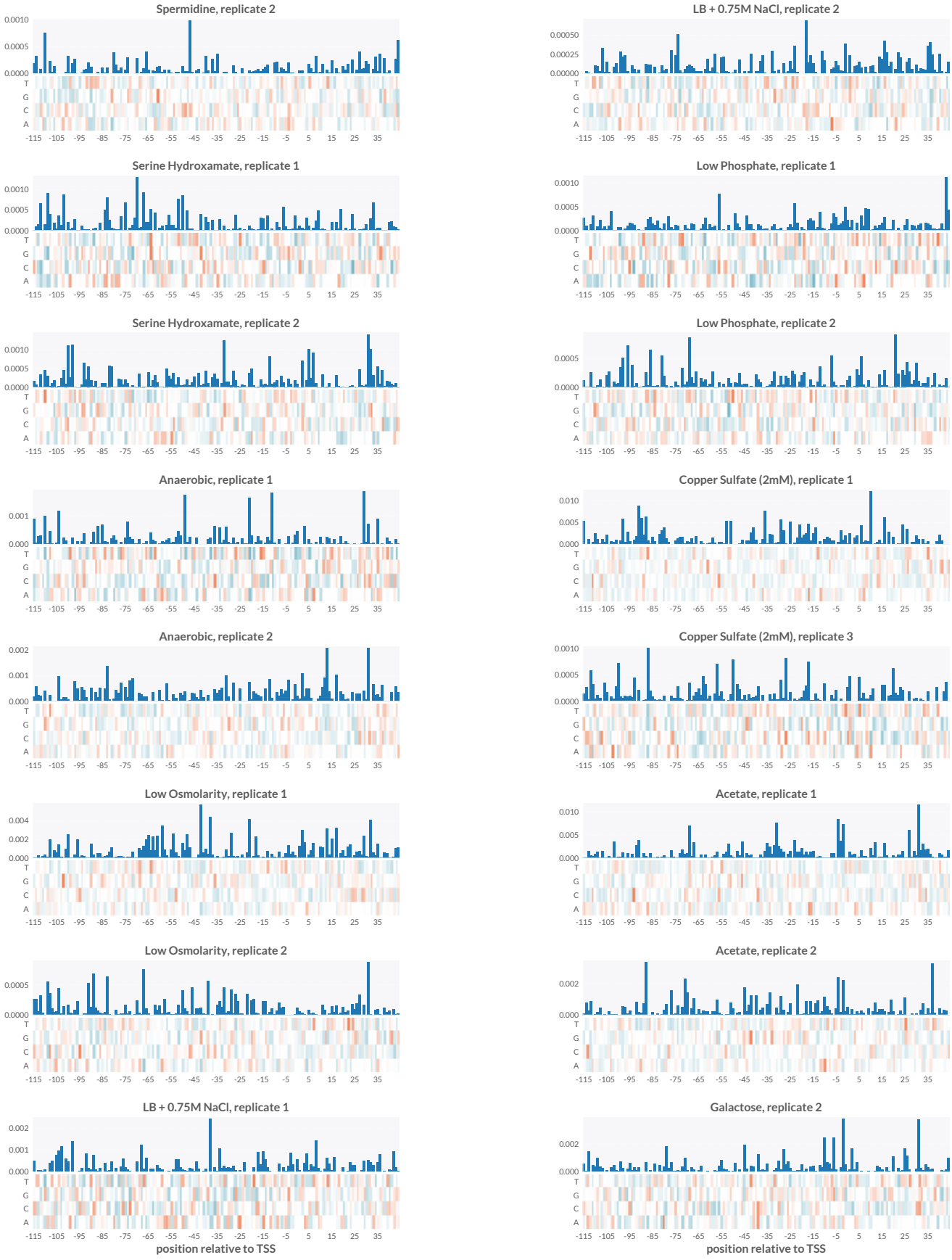
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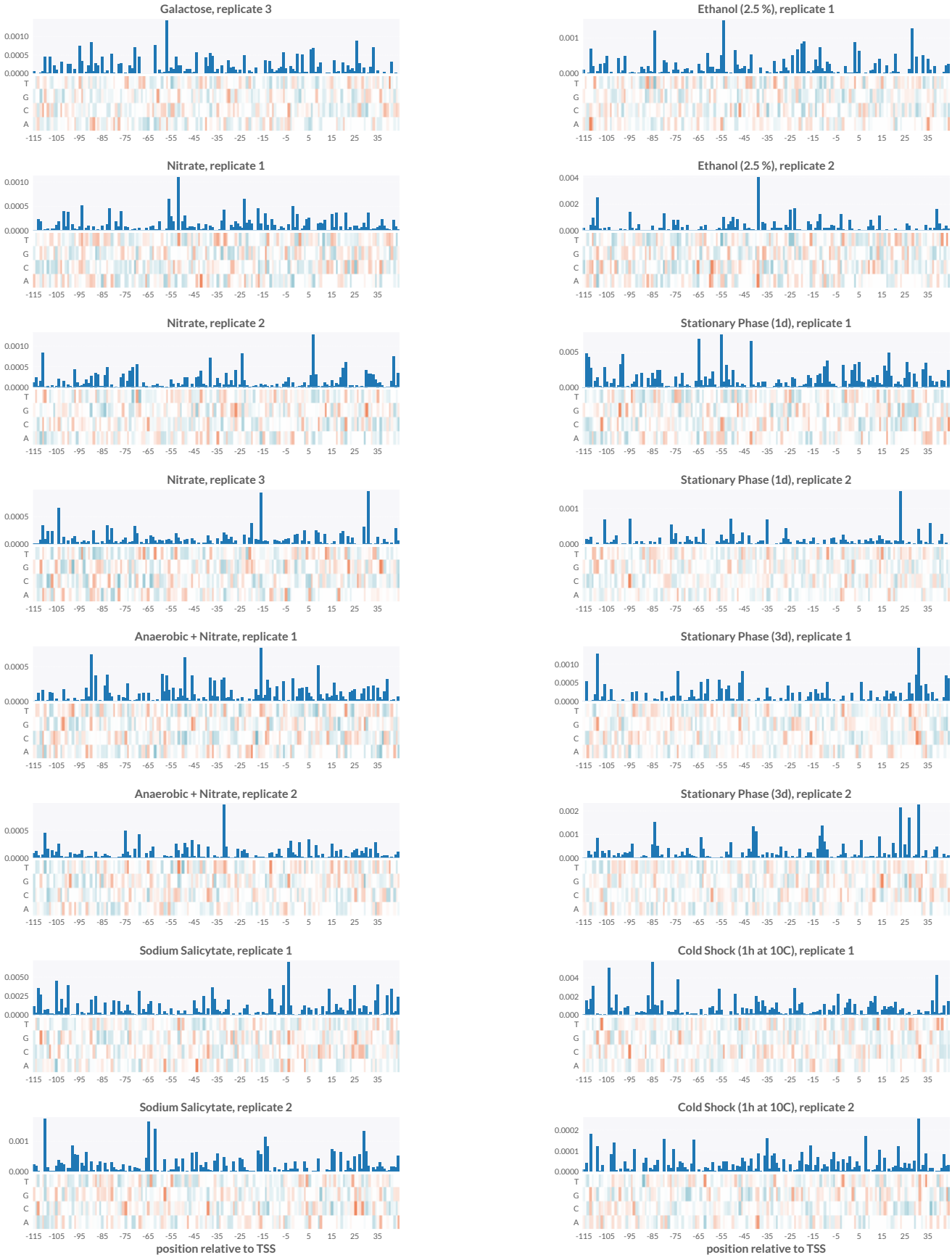
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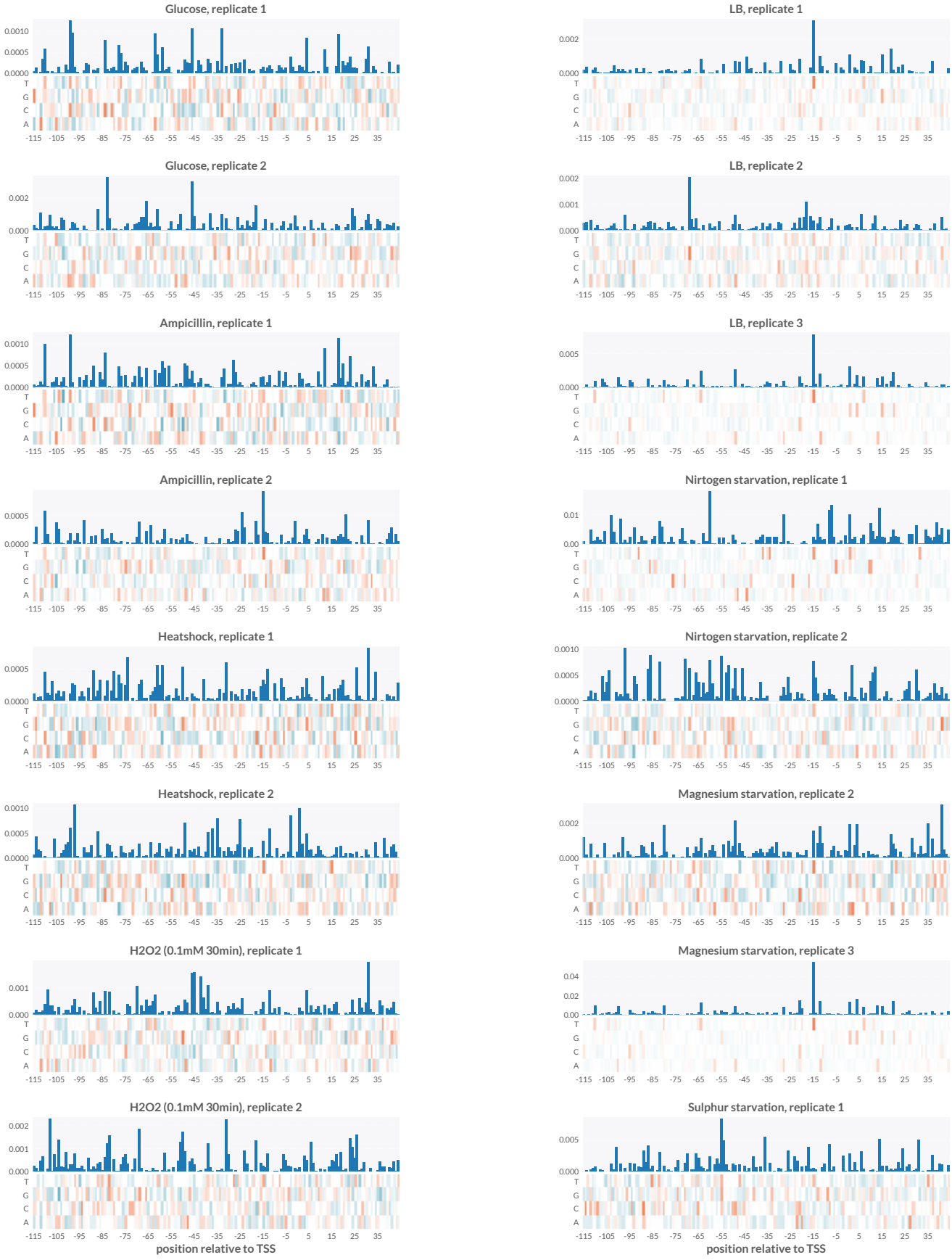
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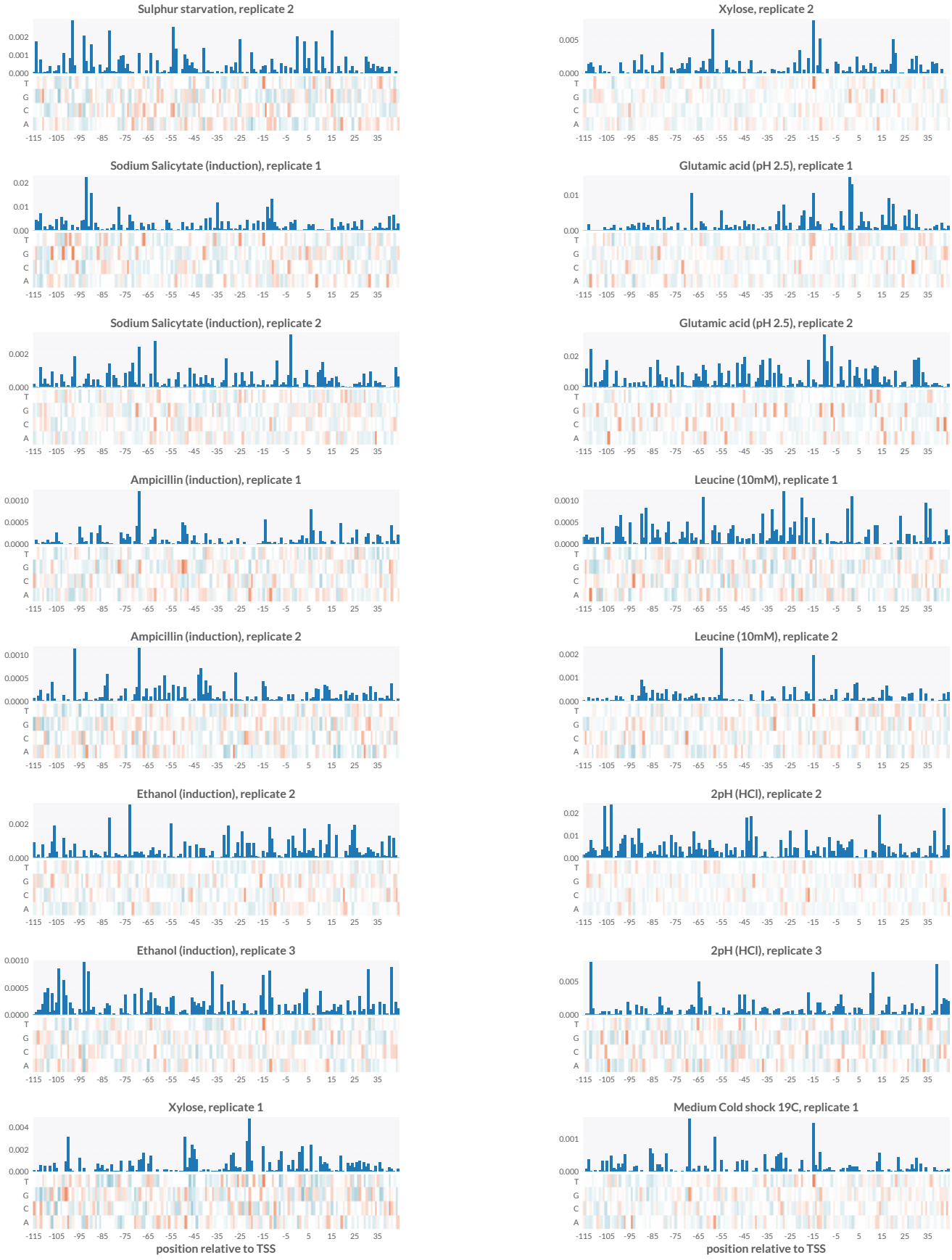
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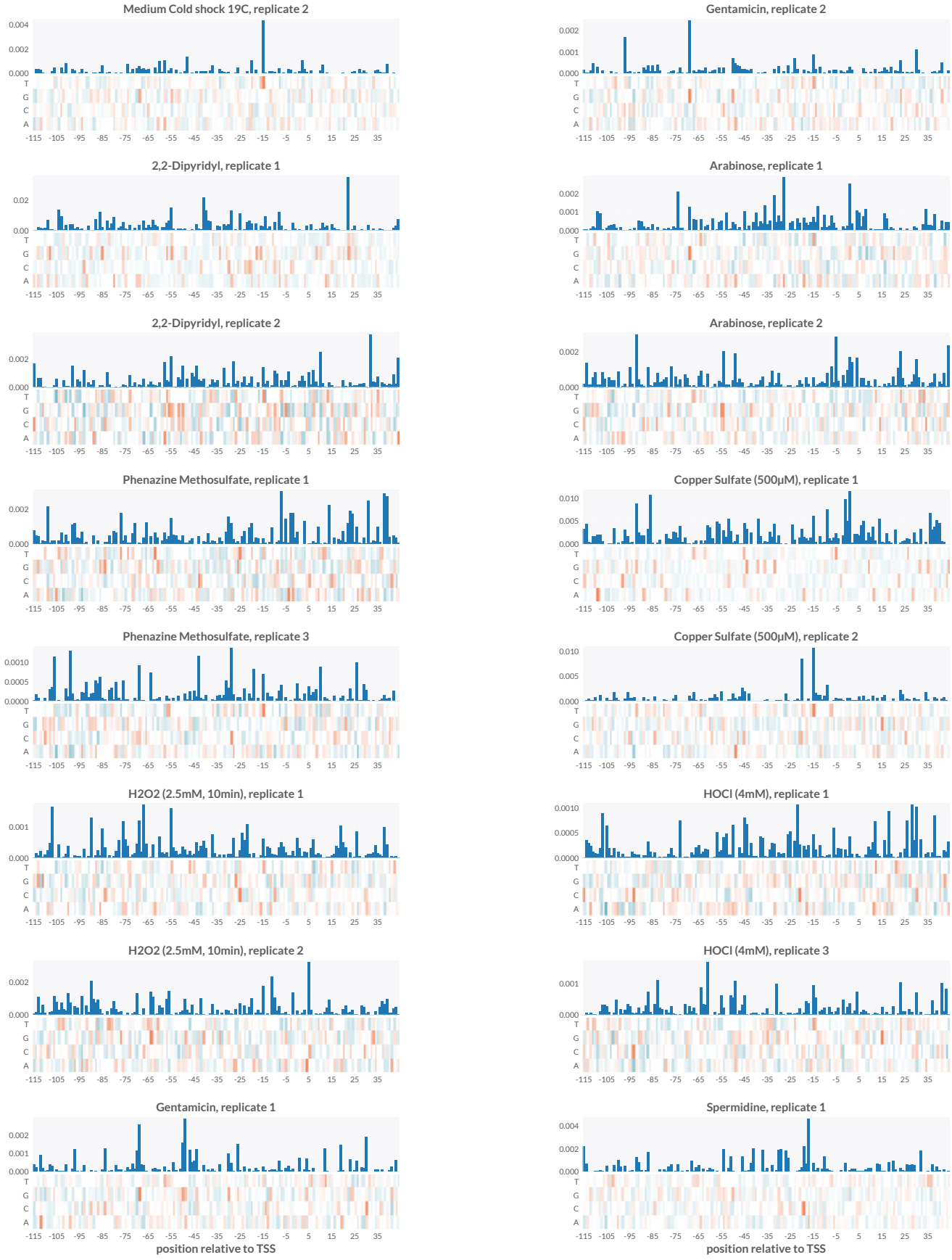
ygfKp


Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

ygfKp


Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

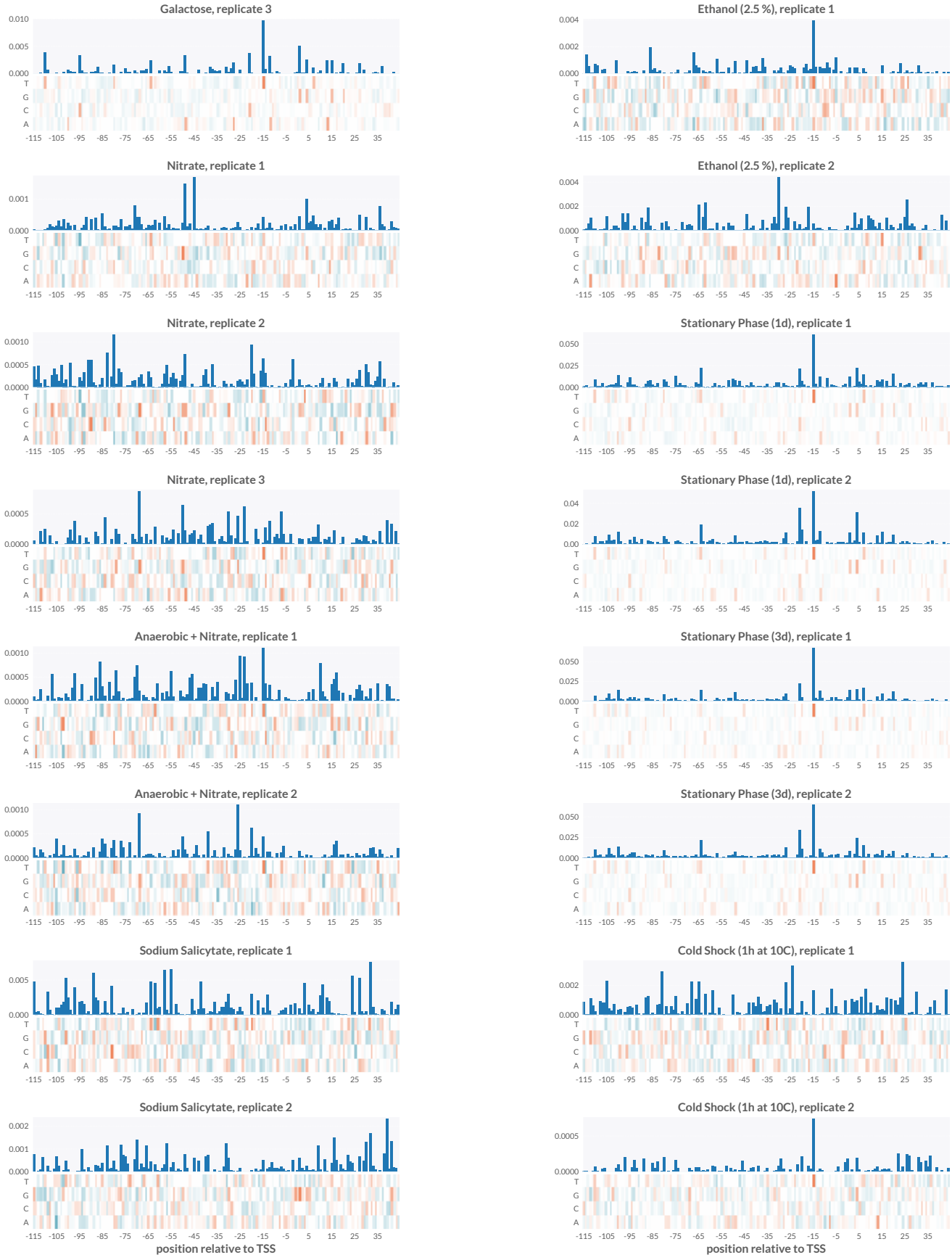
ygfKp


Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

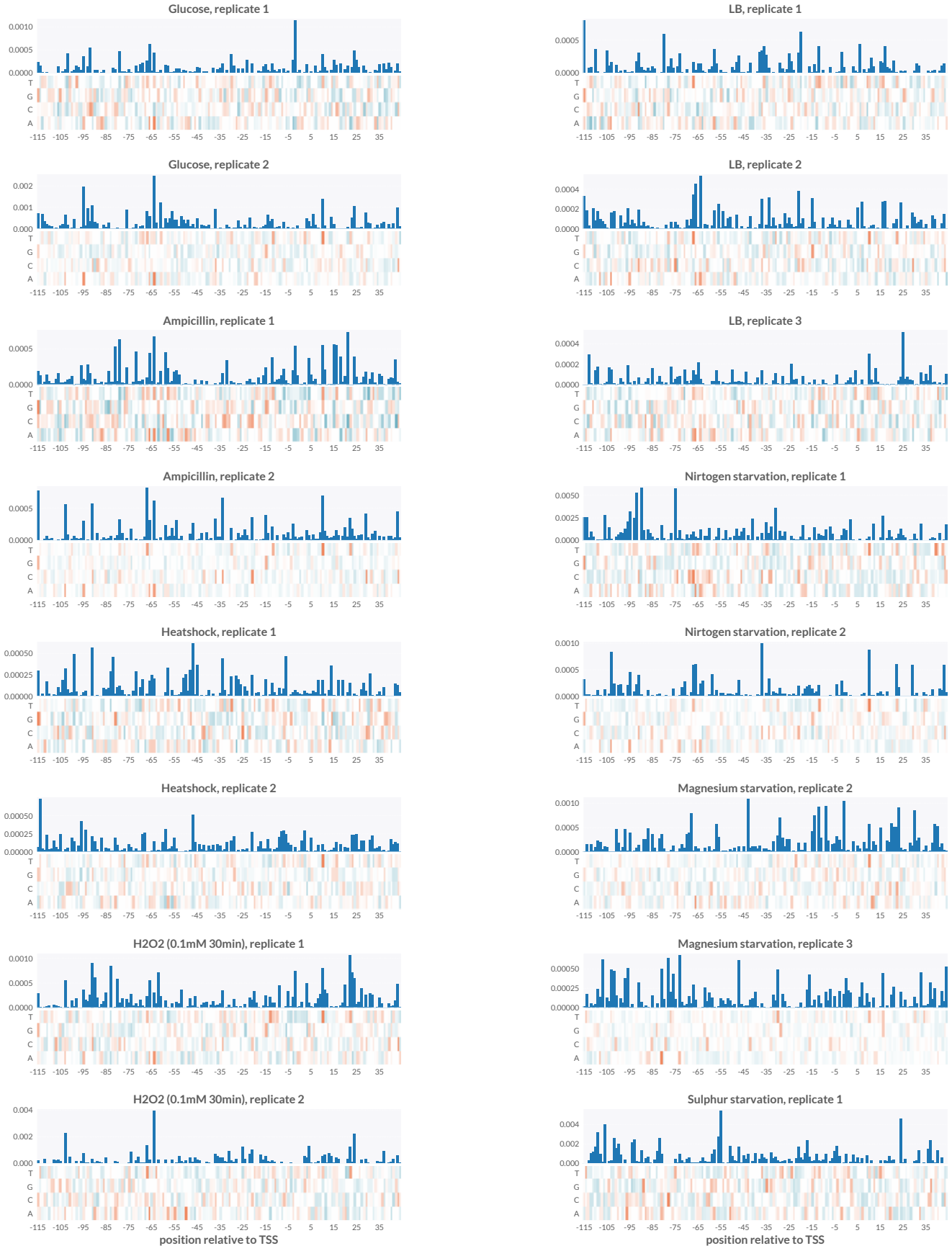
ygfKp


Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

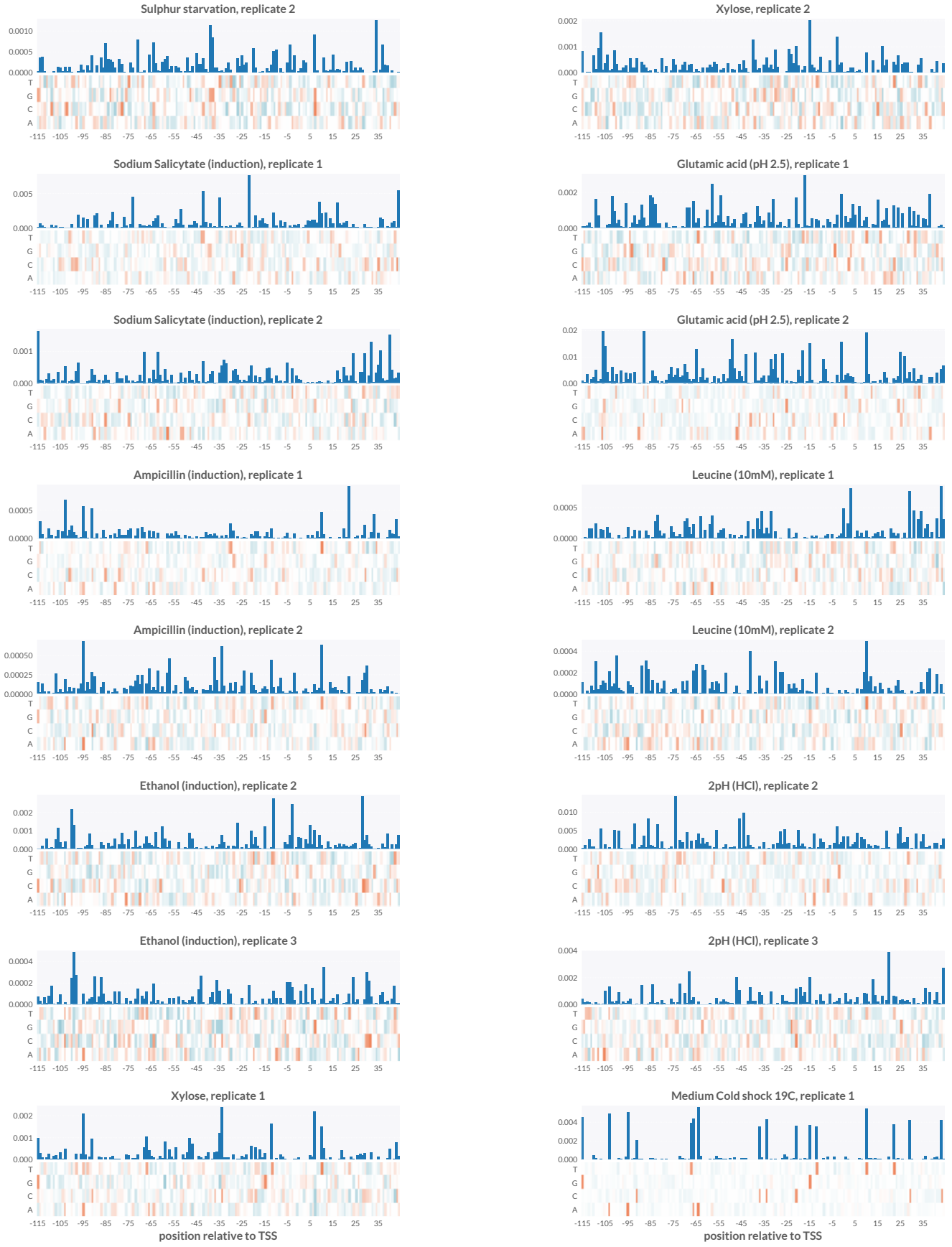
ygfKp


Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

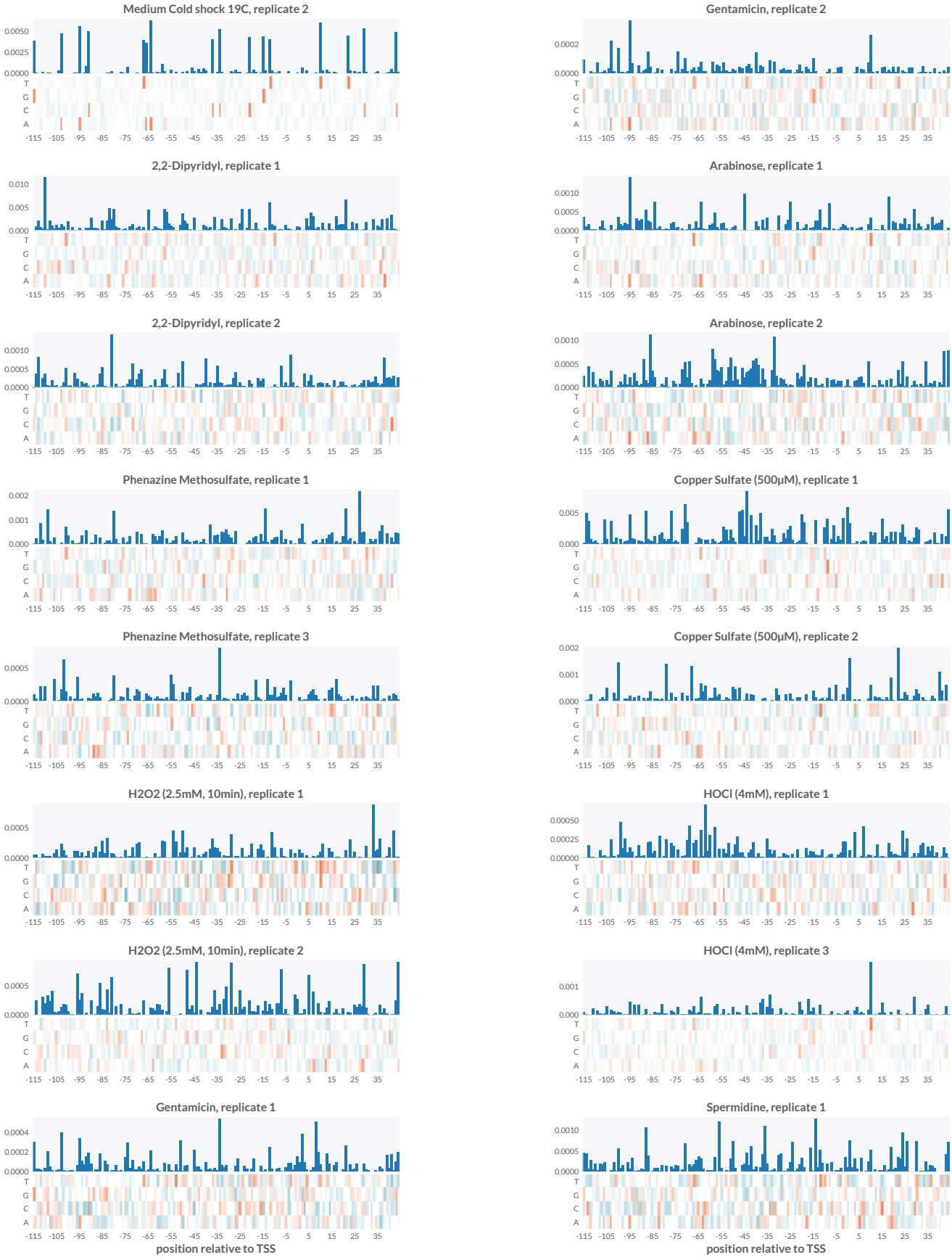
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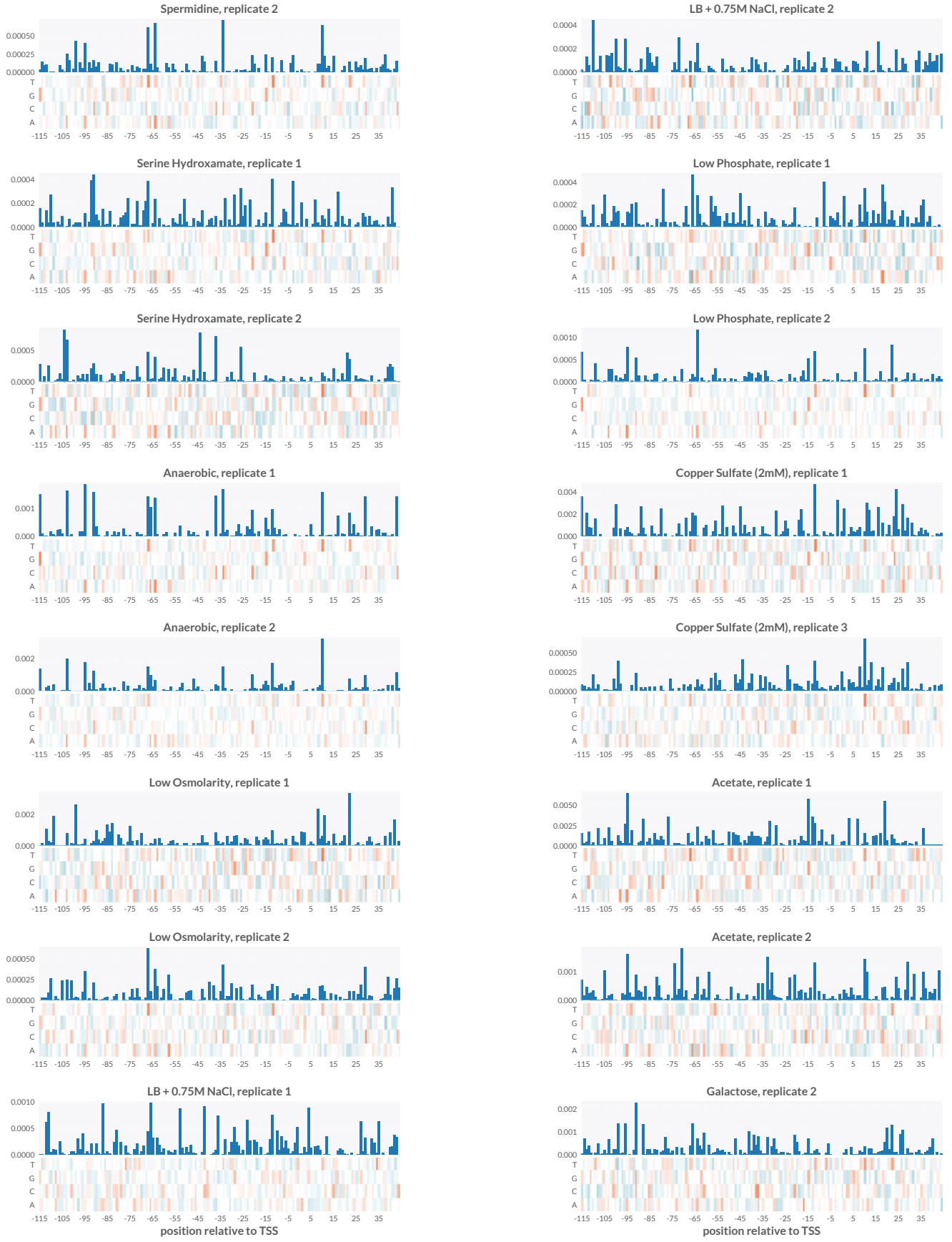
ygfM_xdhD_predicted



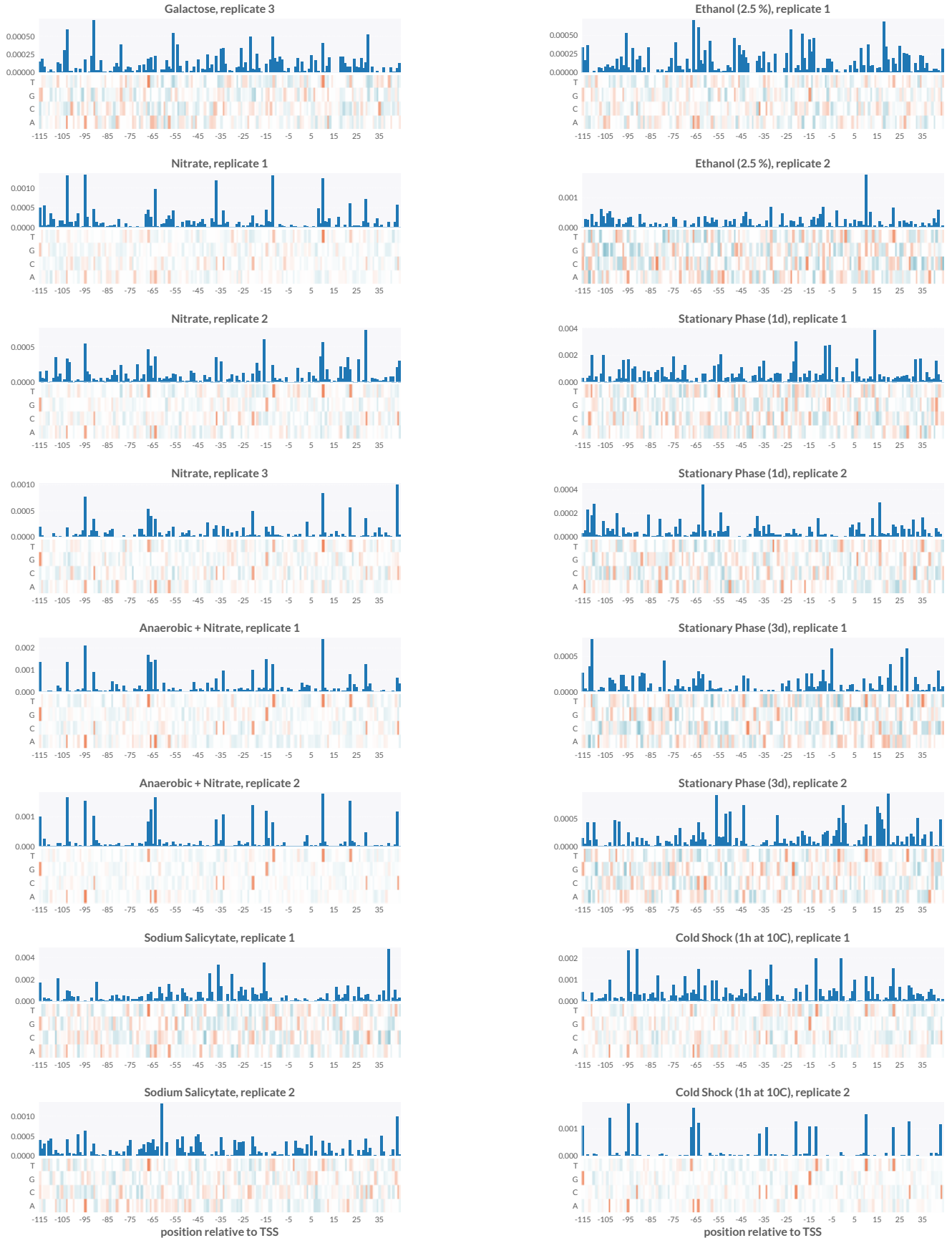
ygfM_xdhD_predicted



ygfM_xdhD_predicted



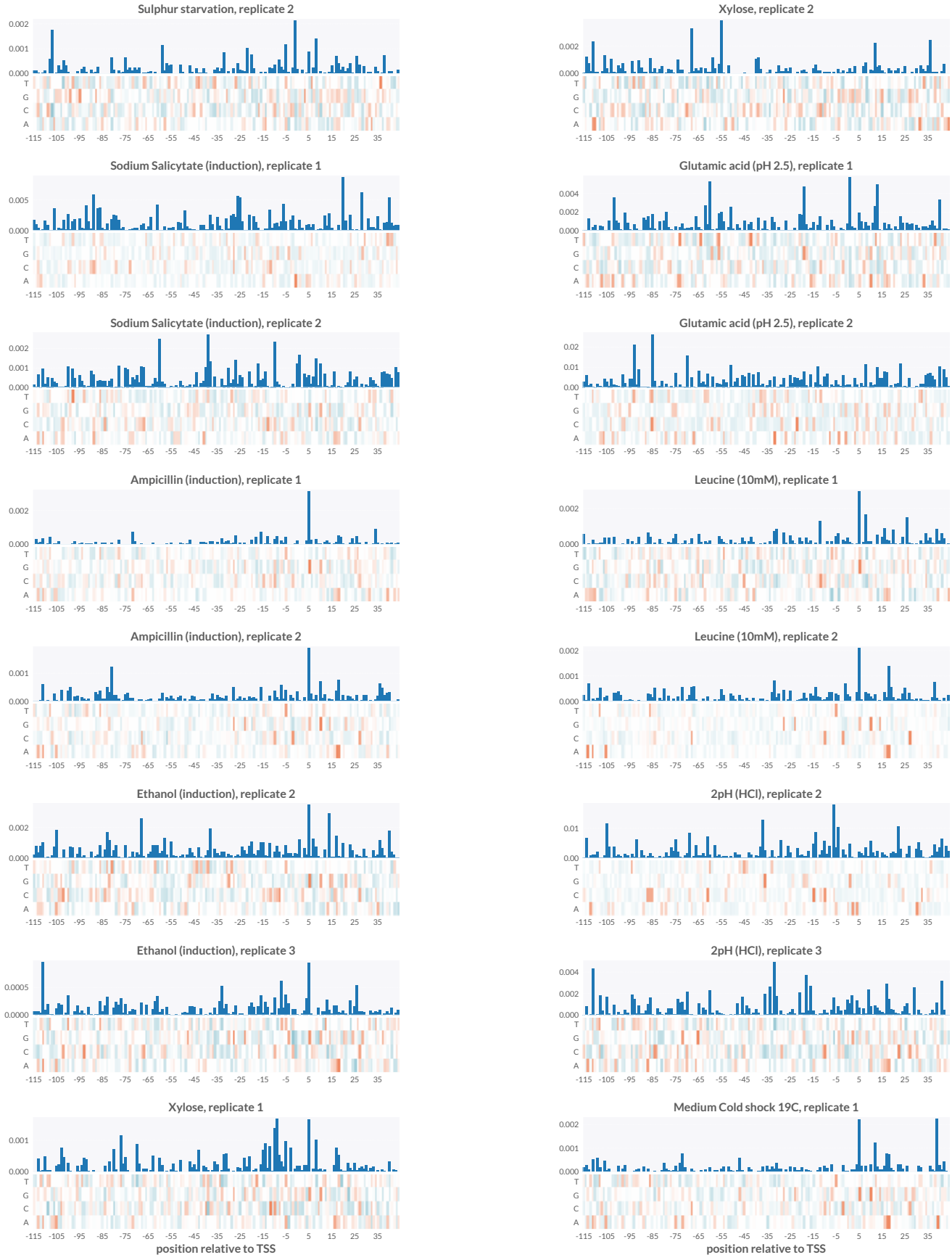
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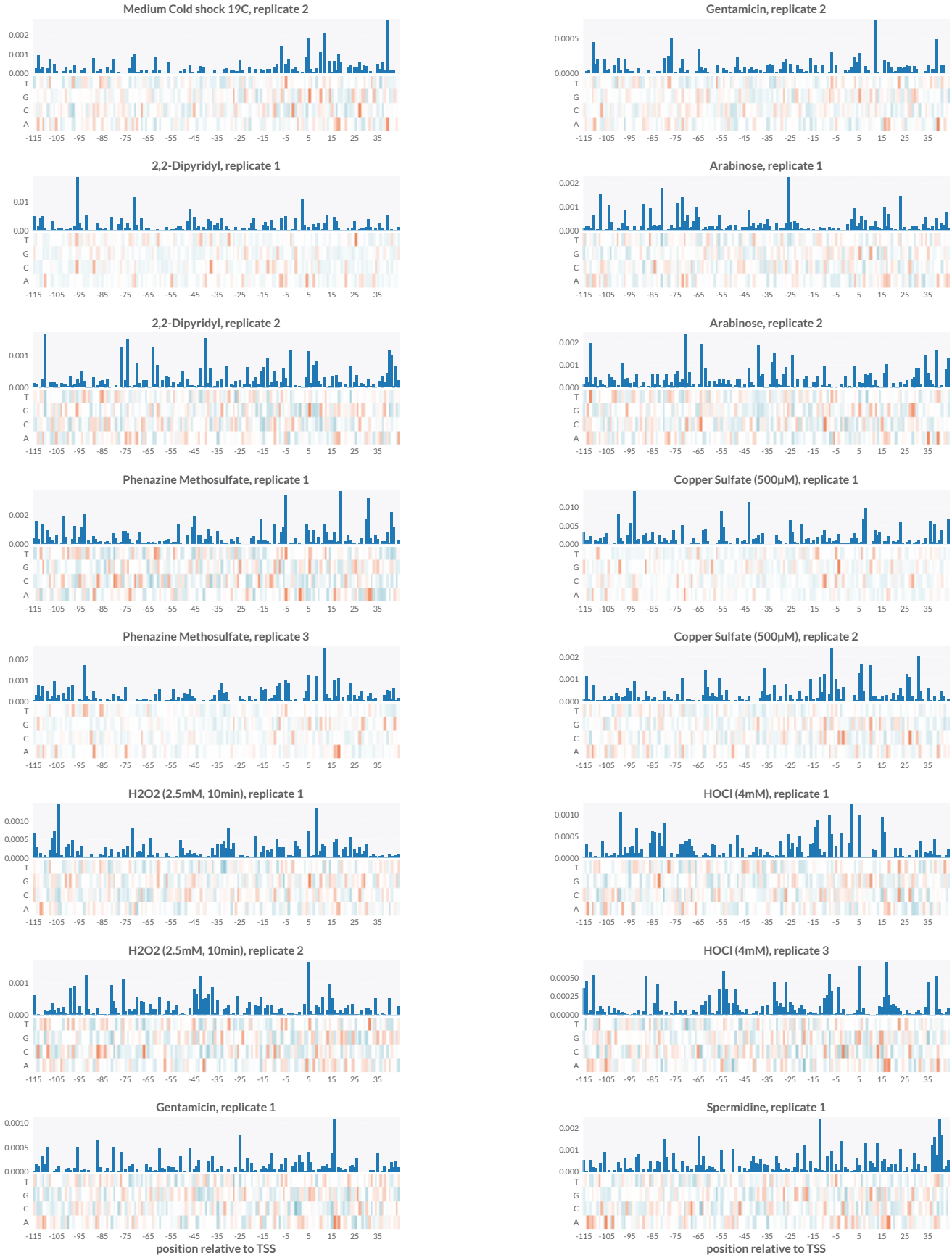
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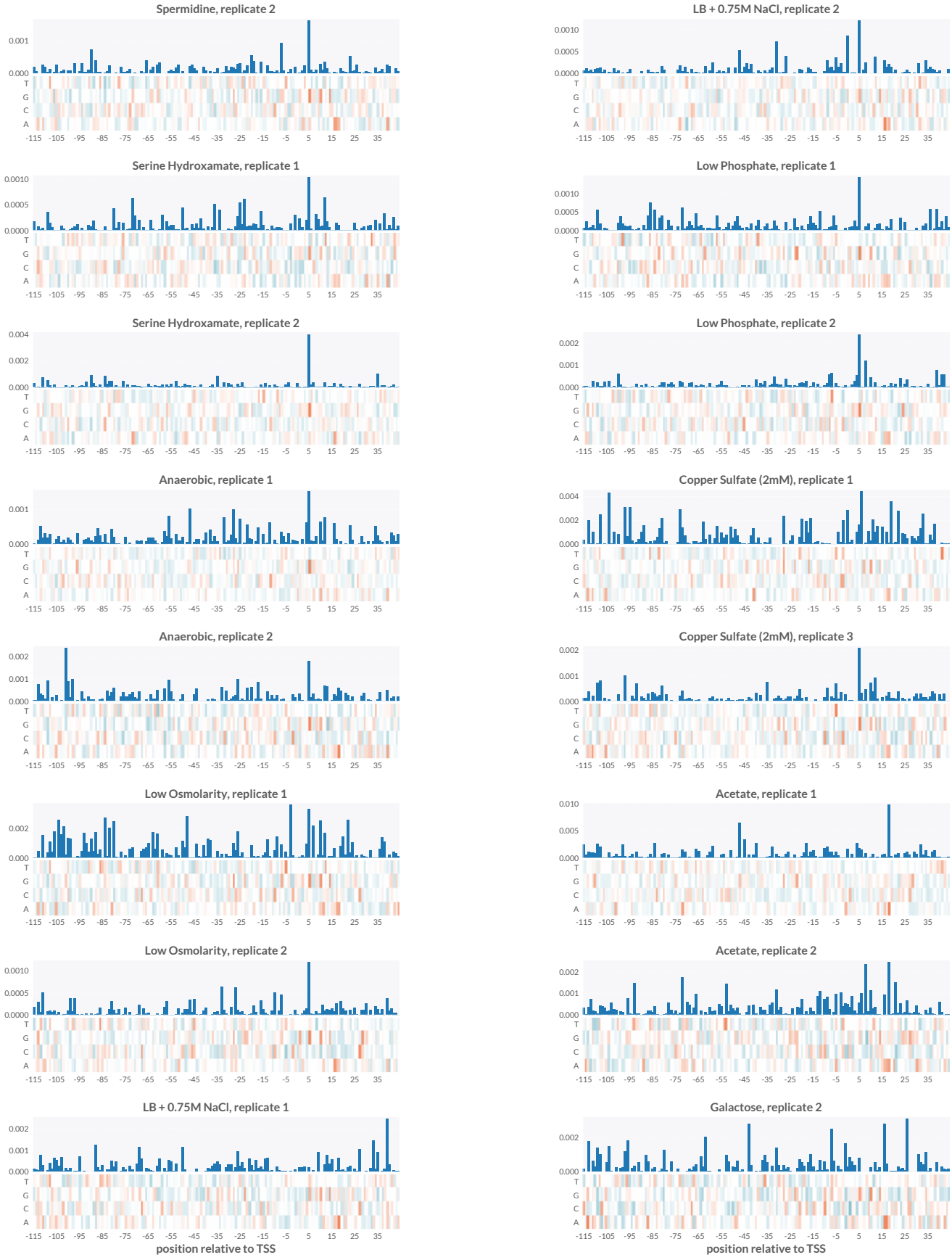
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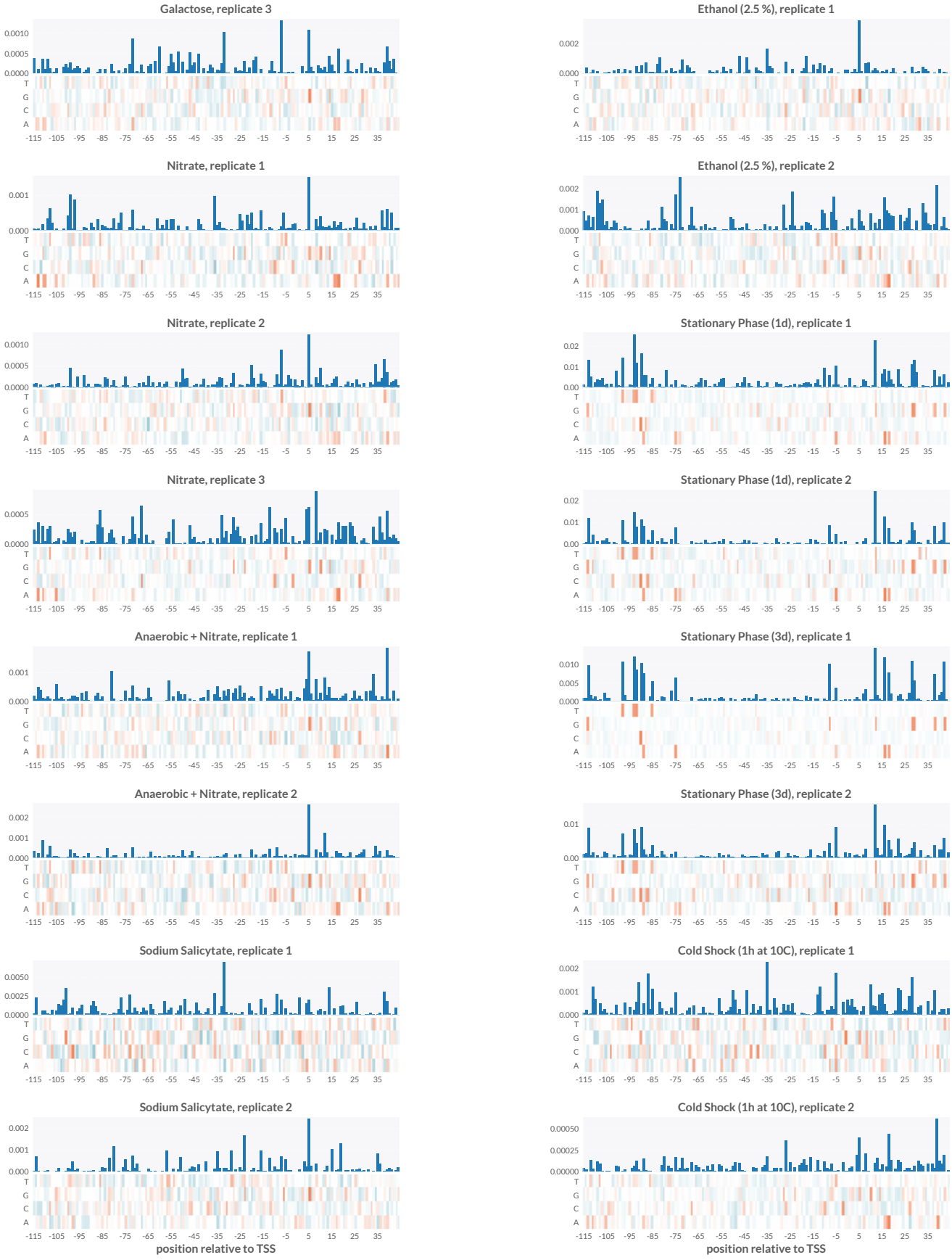
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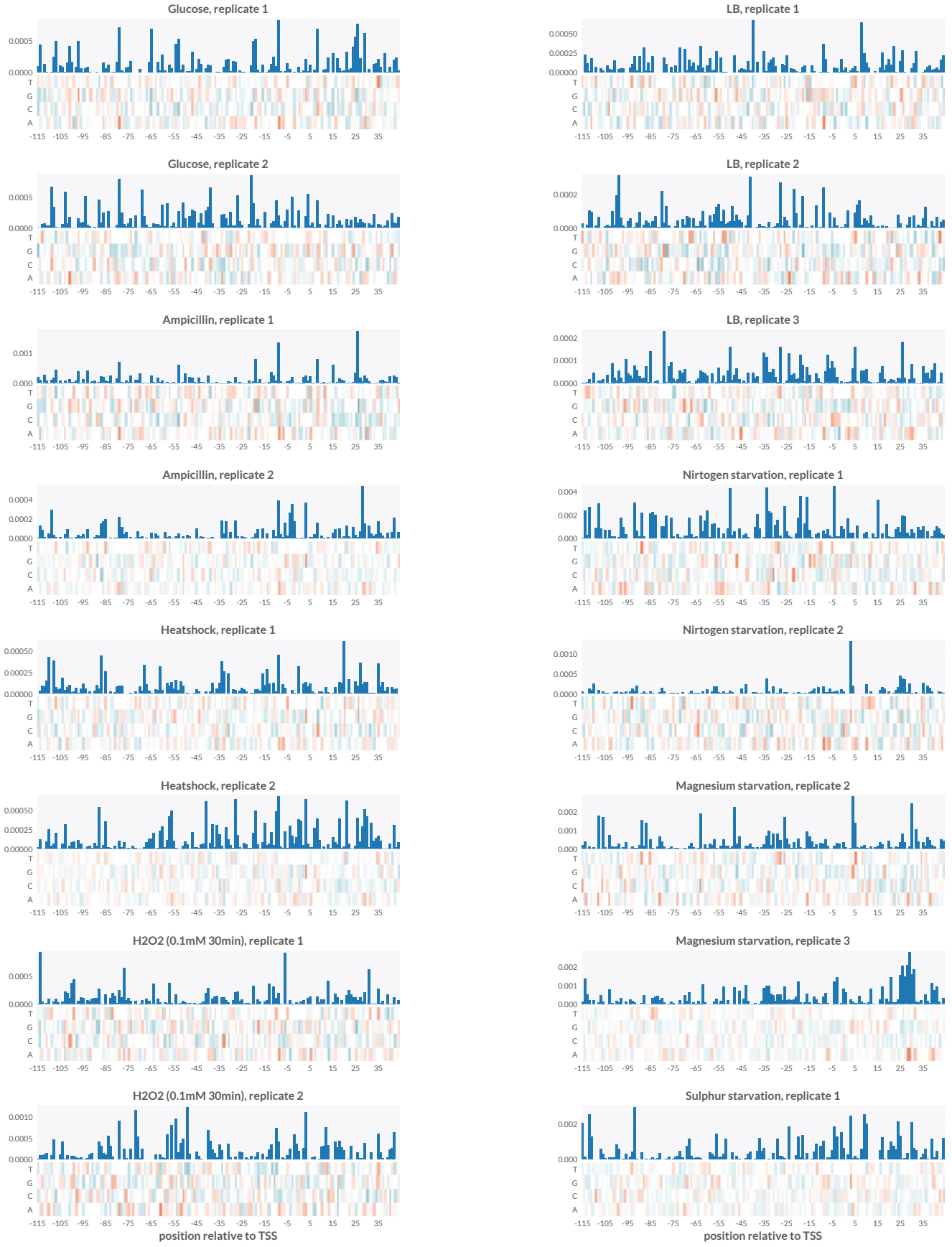
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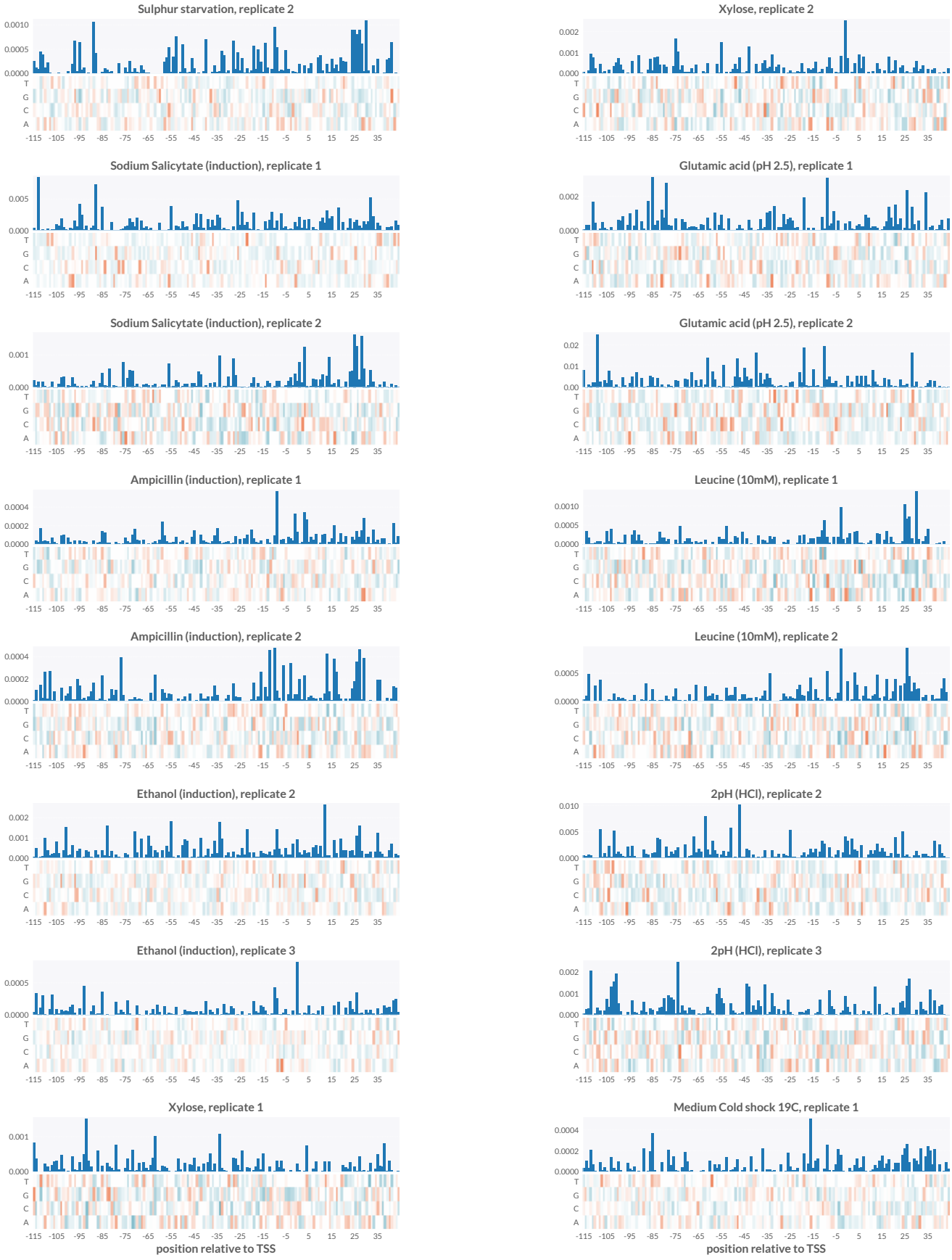
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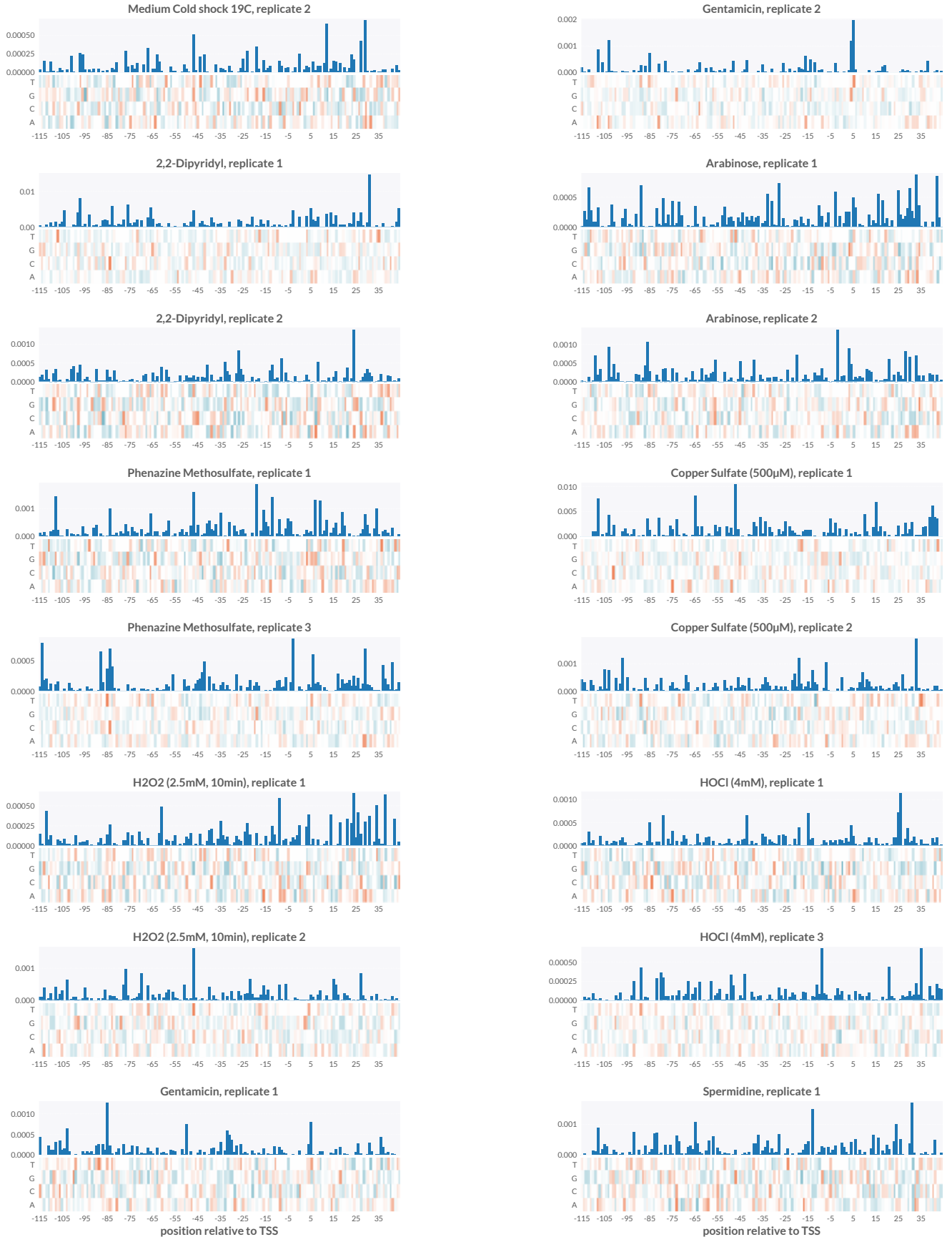
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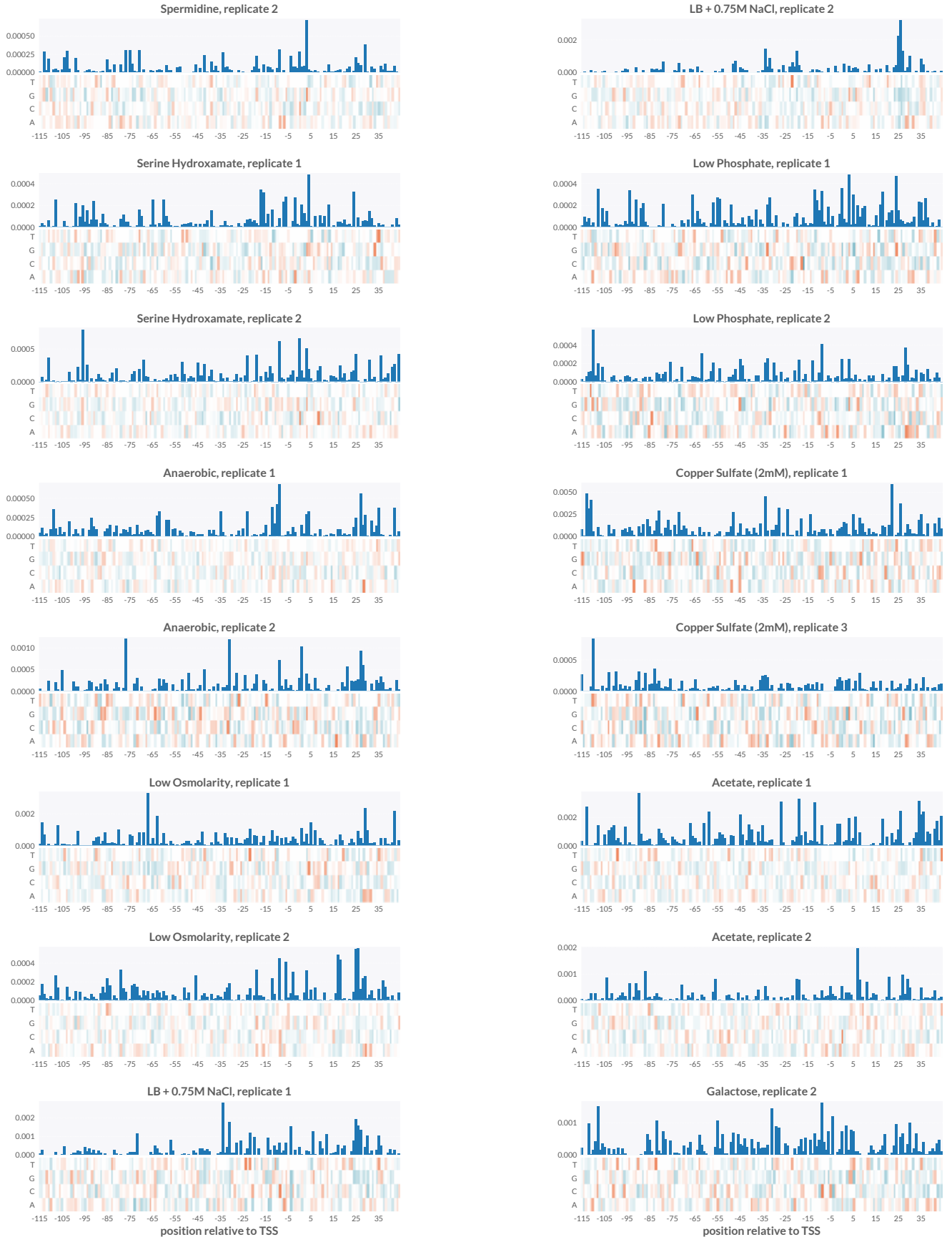
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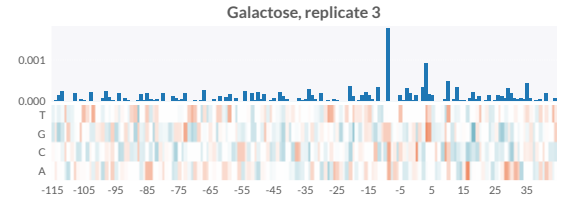
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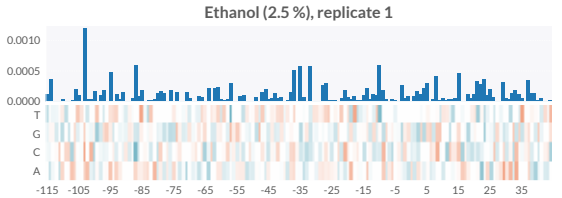


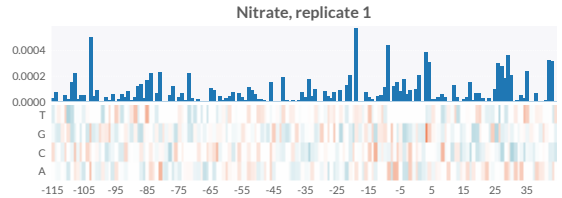
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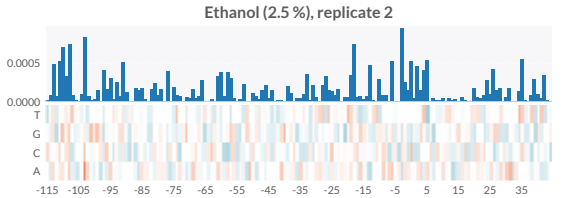


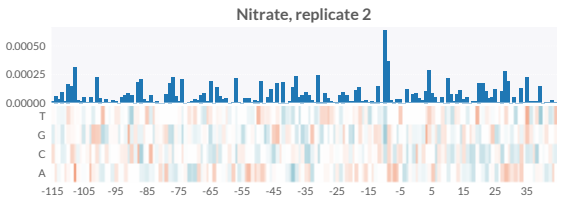
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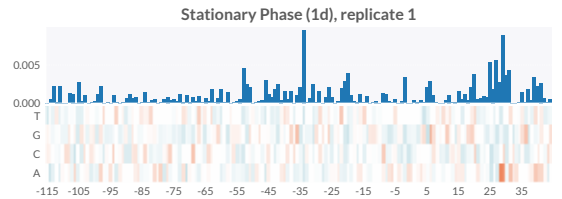


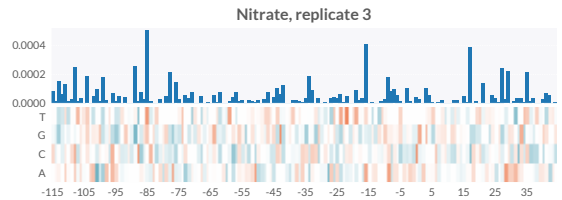


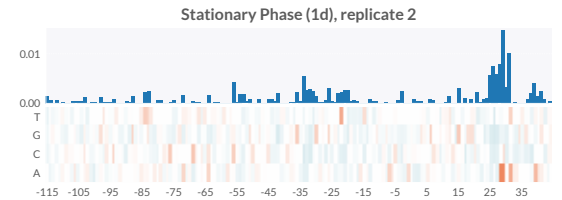


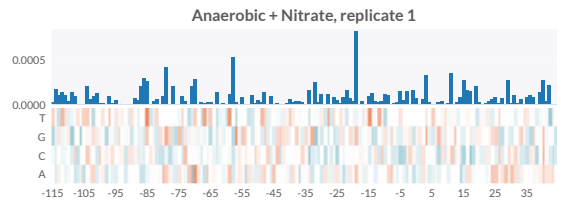


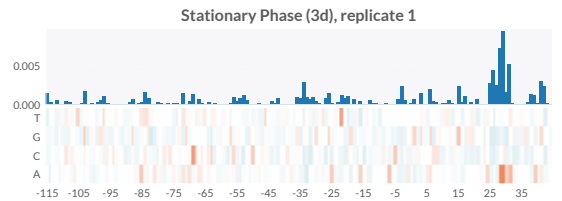


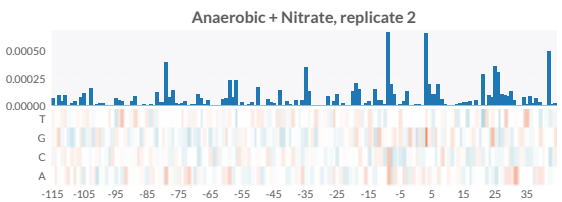


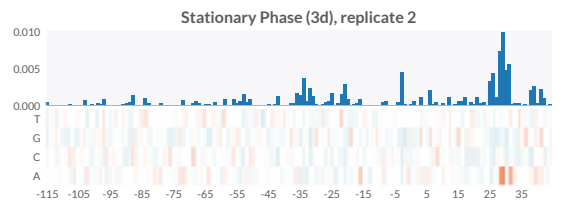


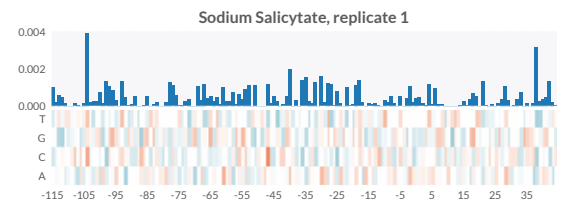


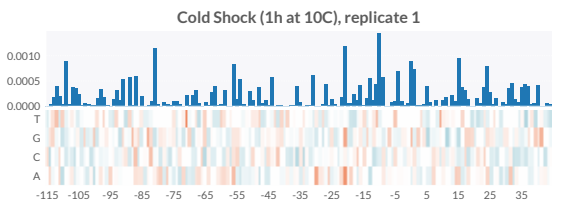


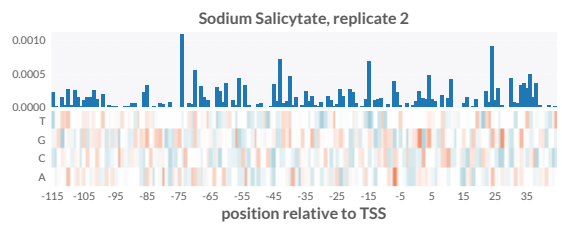


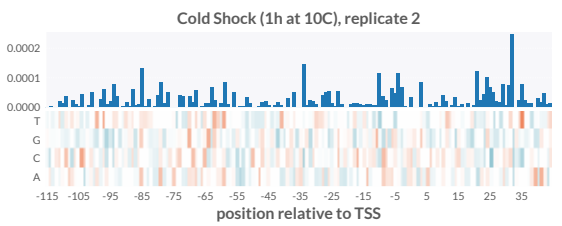




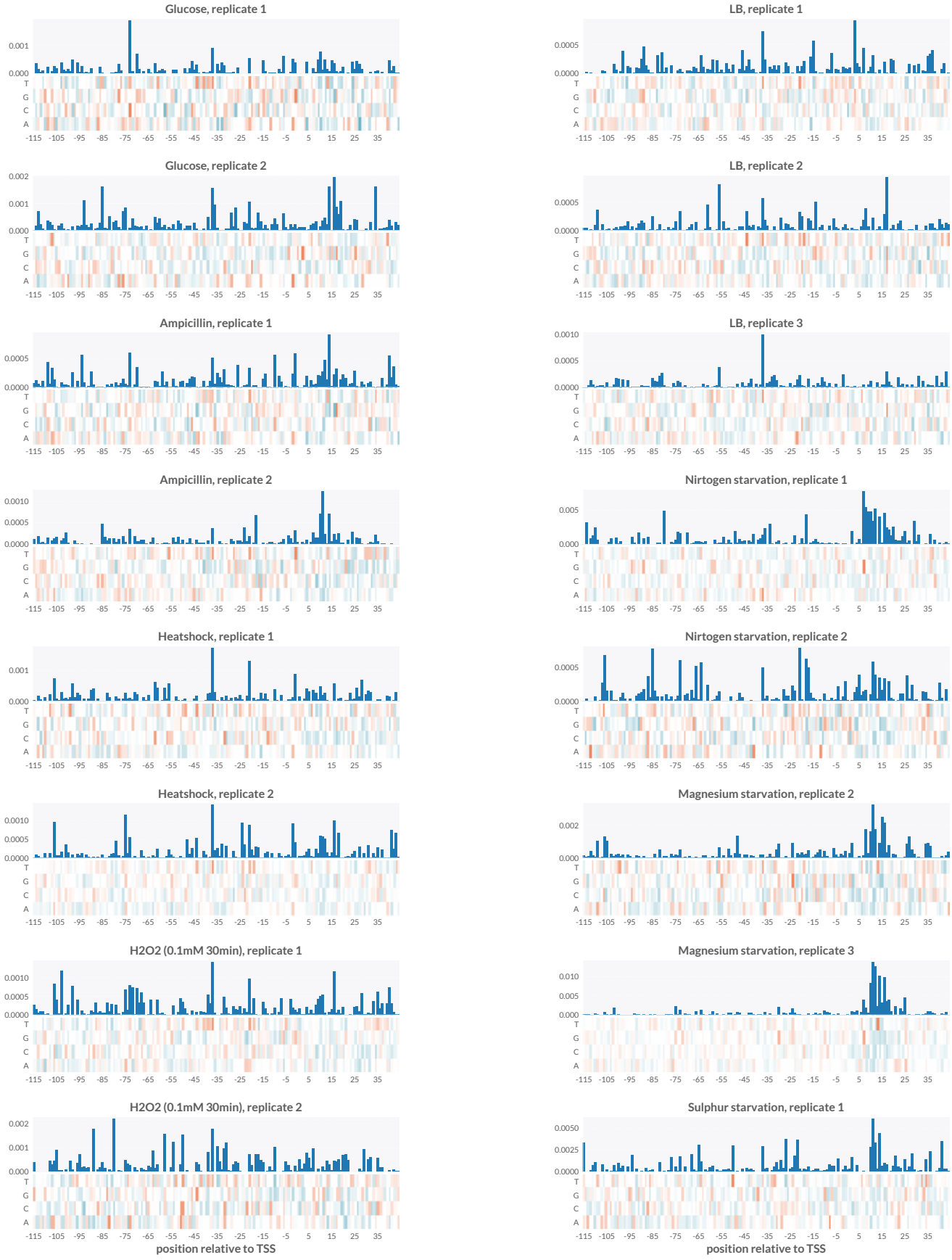




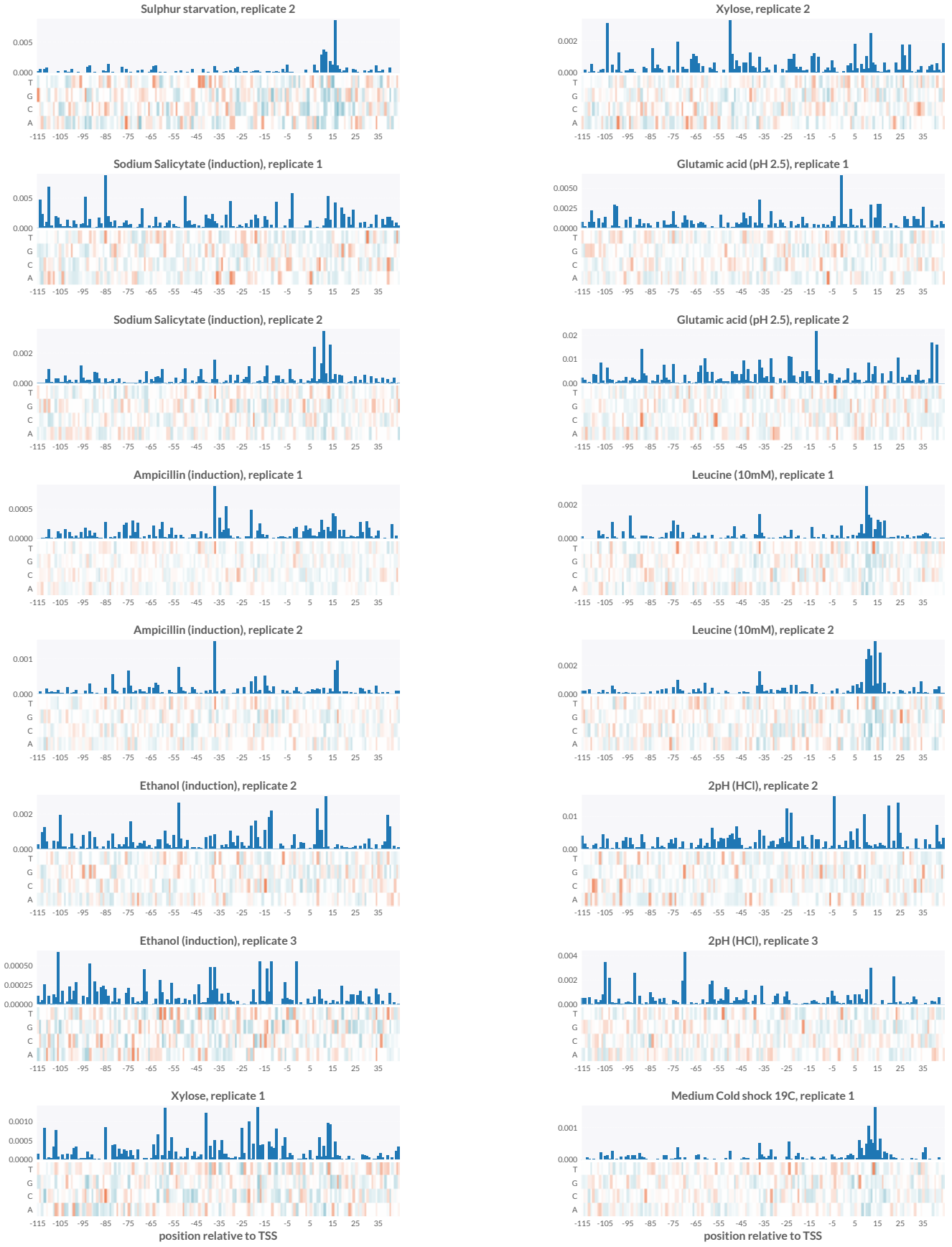




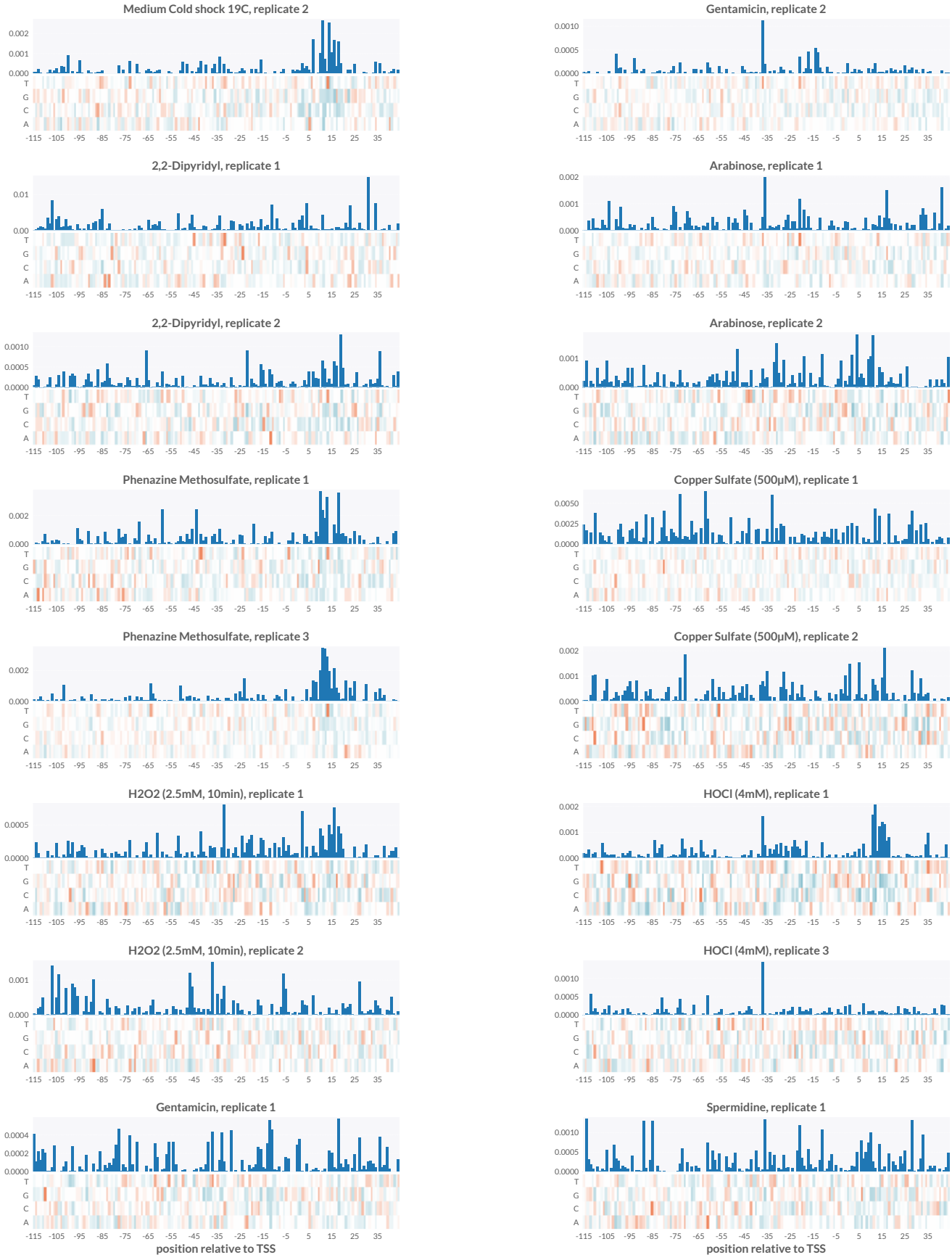
yjbJ_predicted



yjbJ_predicted



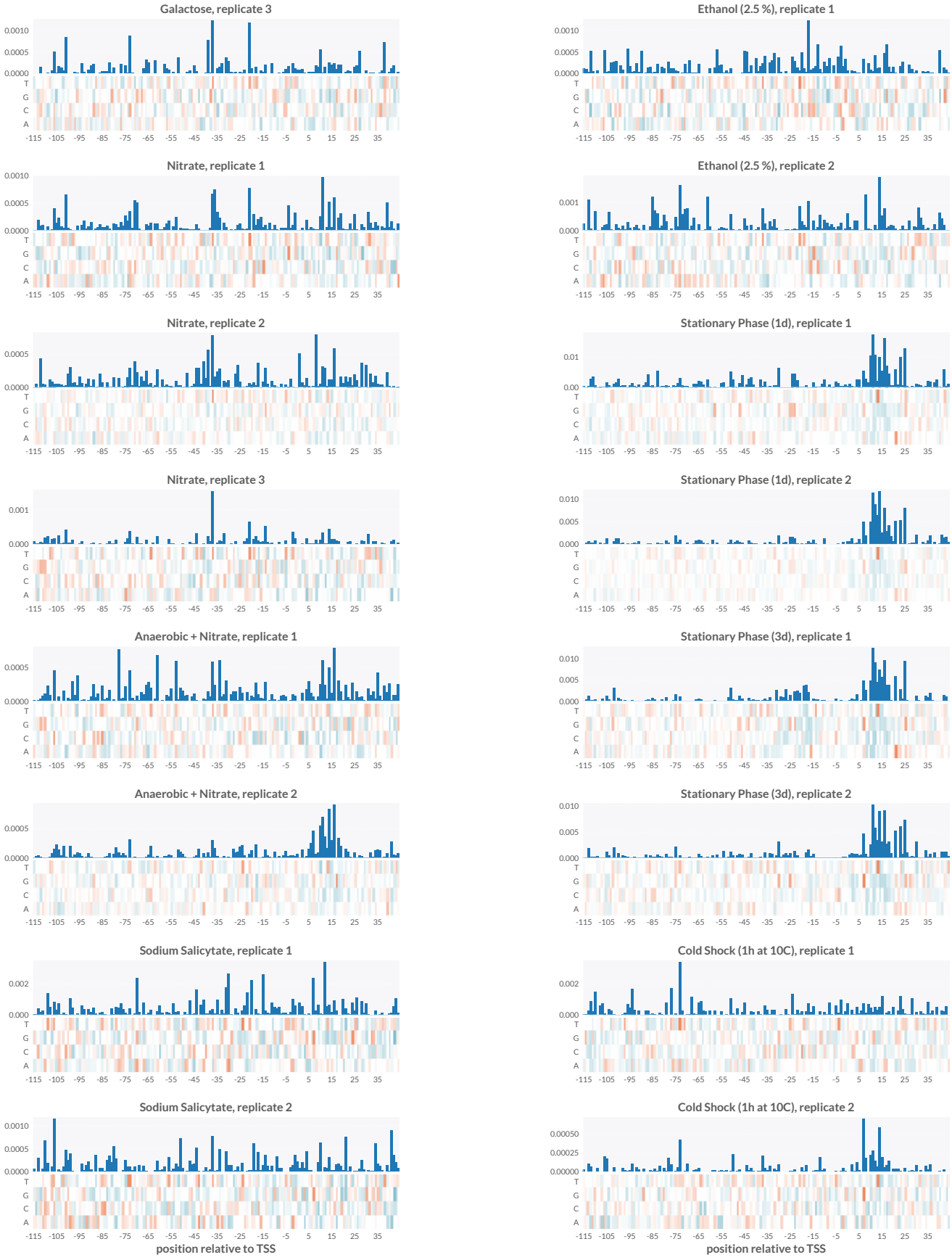
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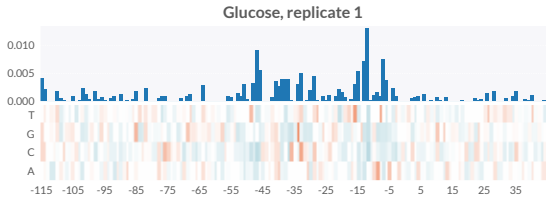
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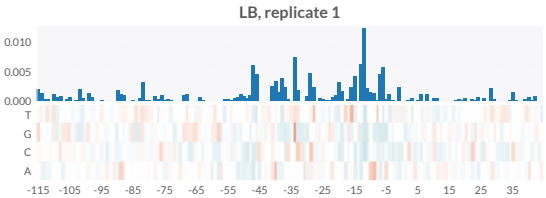


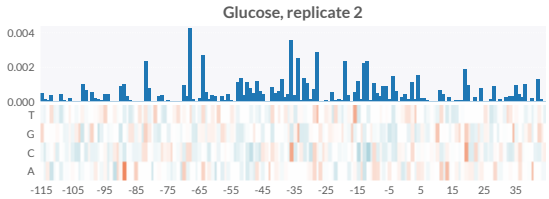
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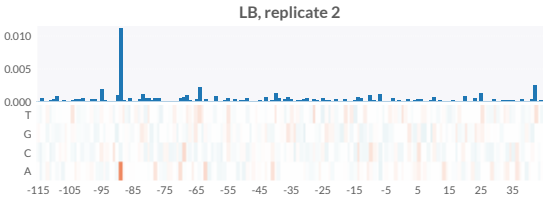


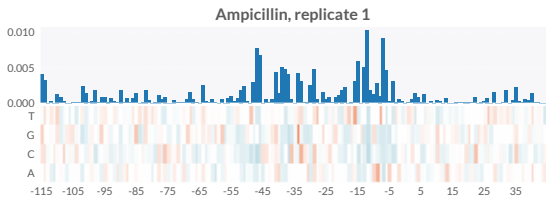
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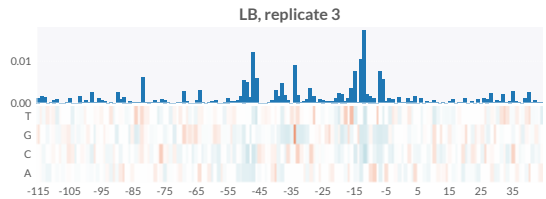

Glucose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

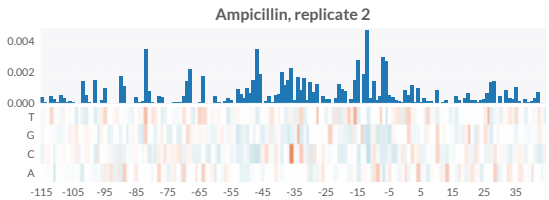

LB, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

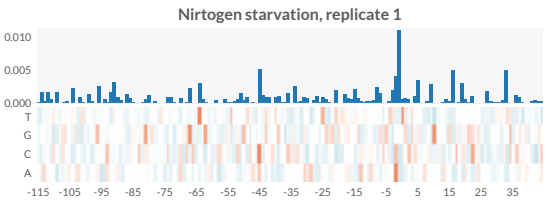

Glucose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

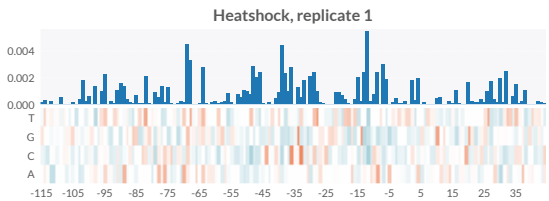

LB, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

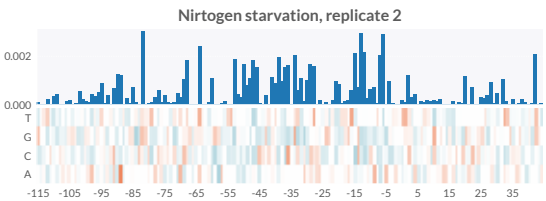

Ampicillin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

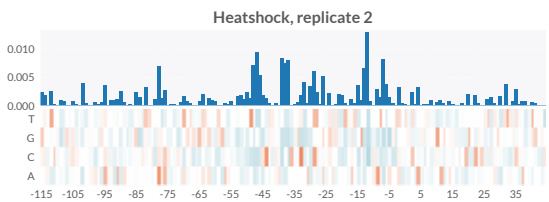

LB, replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

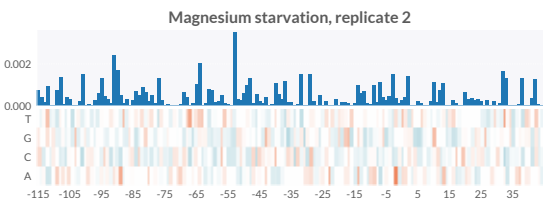

Ampicillin, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

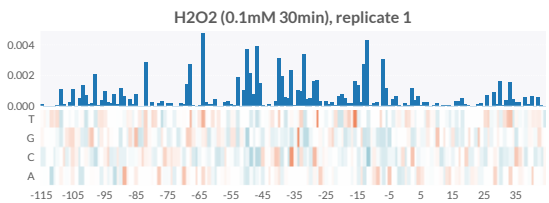

Nirtogen starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

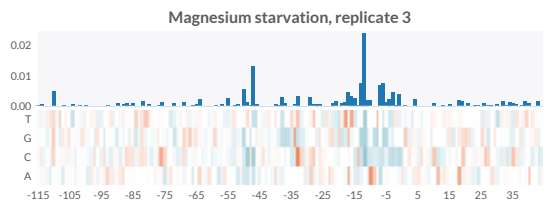

Heatshock, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

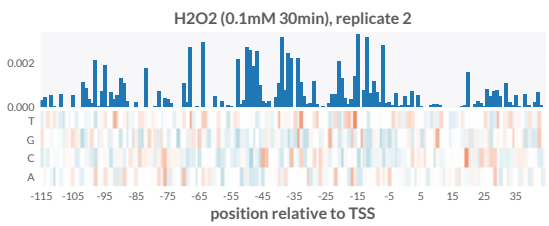

Nirtogen starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

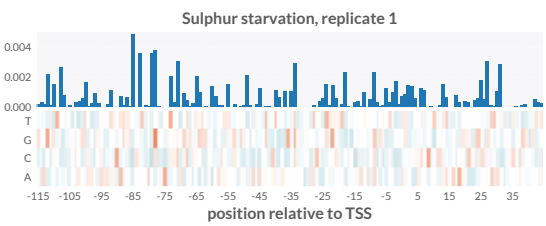

Heatshock, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

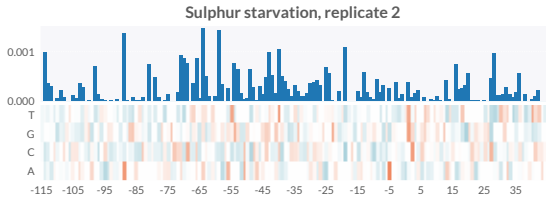

H2O2 (0.1mM 30min), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

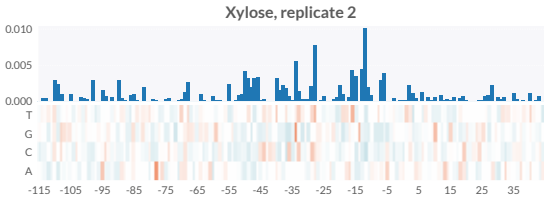

Magnesium starvation, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

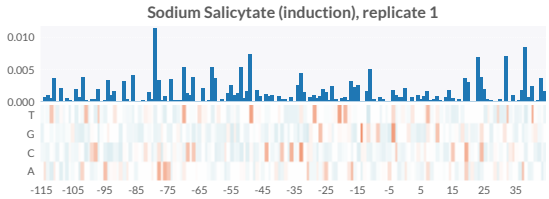

H2O2 (0.1mM 30min), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

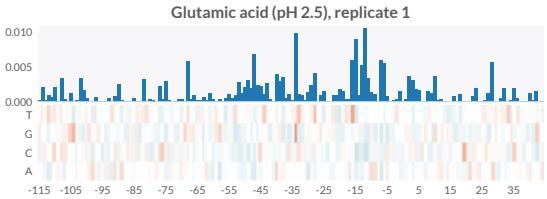

Sulphur starvation, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

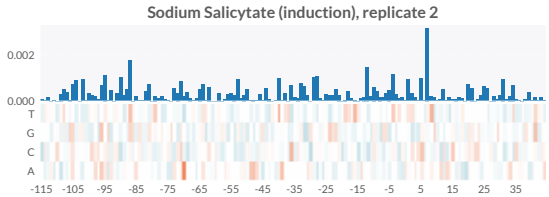
ykgRp

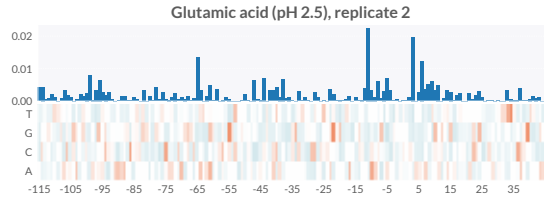

Sulphur starvation, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

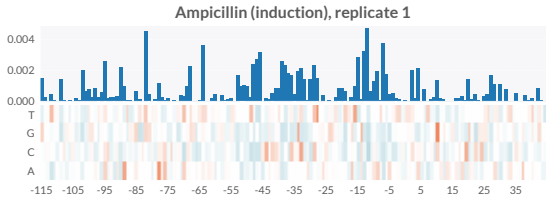

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

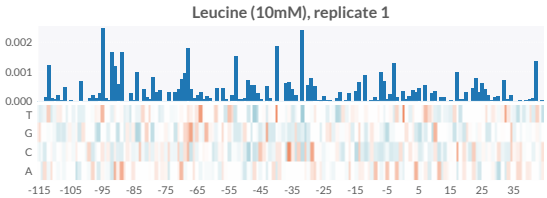

Sodium Salicytate (induction), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

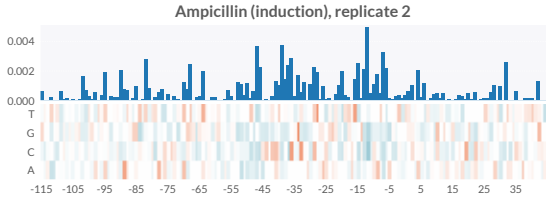

Glutamic acid (pH 2.5), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

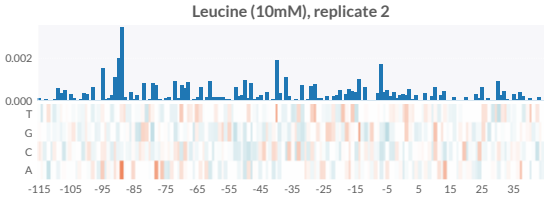

Sodium Salicytate (induction), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

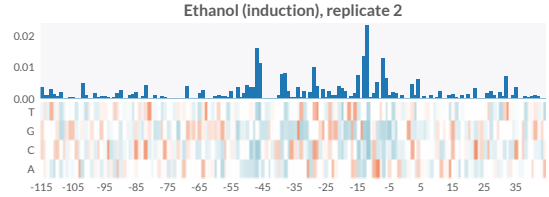

Glutamic acid (pH 2.5), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

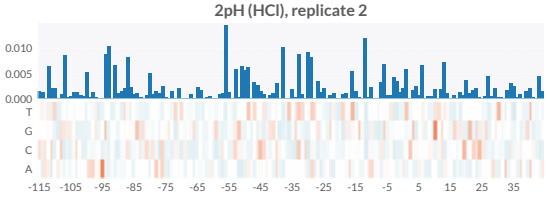

Ampicillin (induction), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

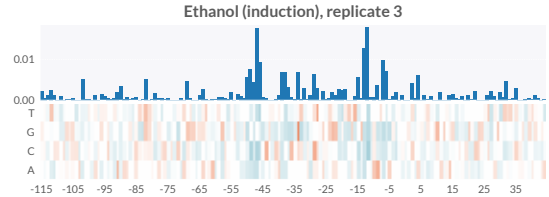

Leucine (10mM), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

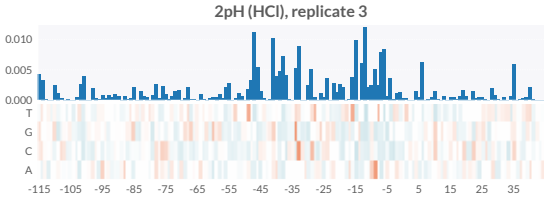

Ampicillin (induction), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

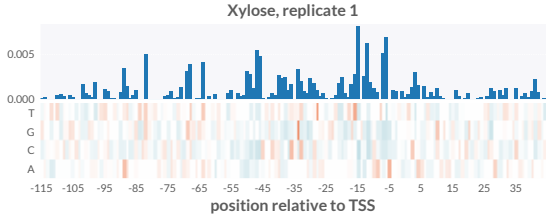

Leucine (10mM), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

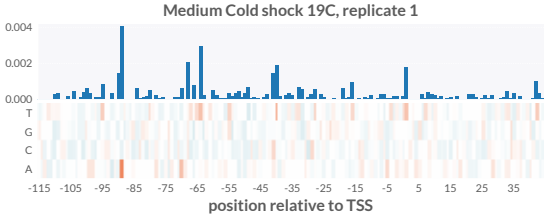

Ethanol (induction), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

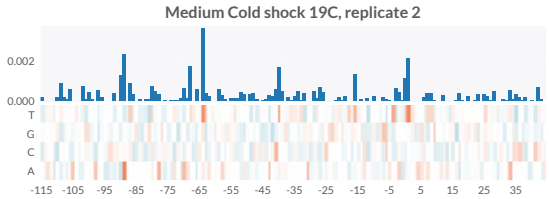

Ethanol (induction), replicate 3
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

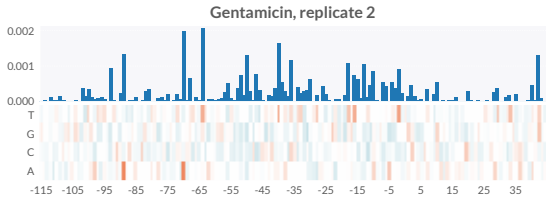

2pH (HCl), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

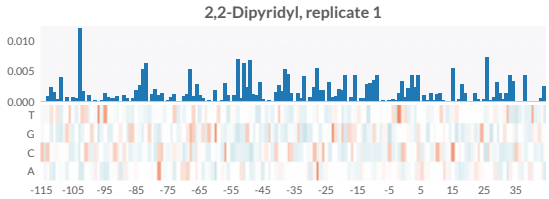

Xylose, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

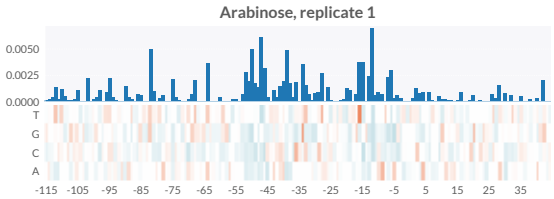

Medium Cold shock 19C, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

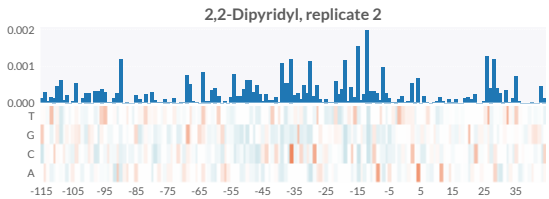
ykgRp

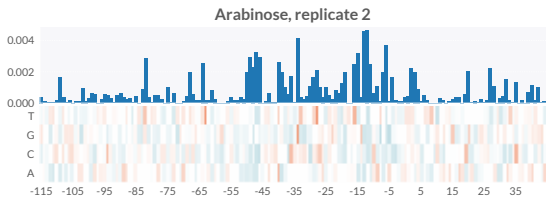

Medium Cold shock 19C, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

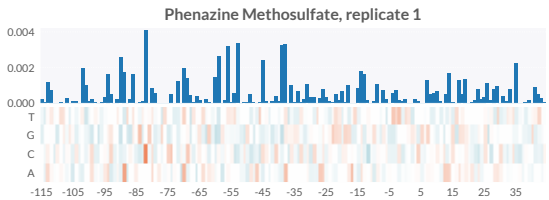

Gentamicin, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

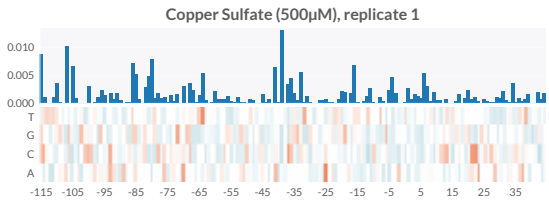

2,2-Dipyridyl, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

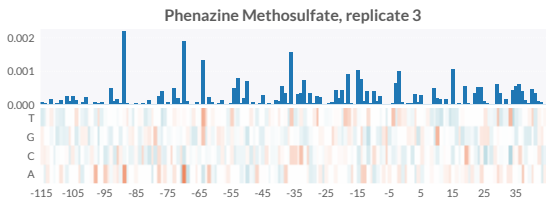

Arabinose, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

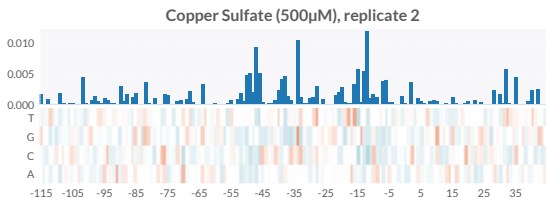

2,2-Dipyridyl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

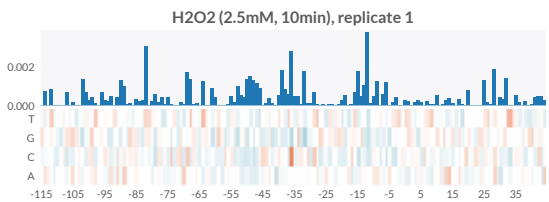

Arabinose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

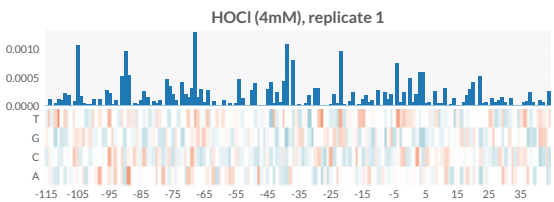

Phenazine Methosulfate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

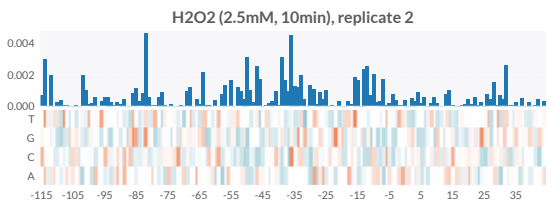

Copper Sulfate (500µM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

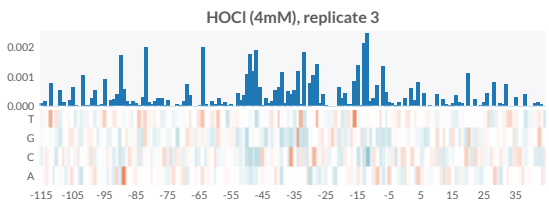

Phenazine Methosulfate, replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

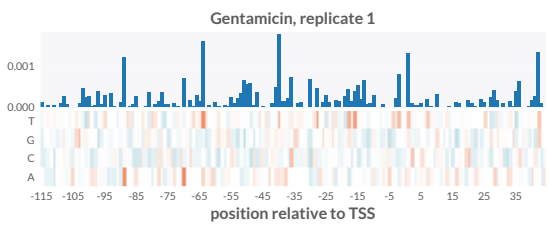

Copper Sulfate (500µM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

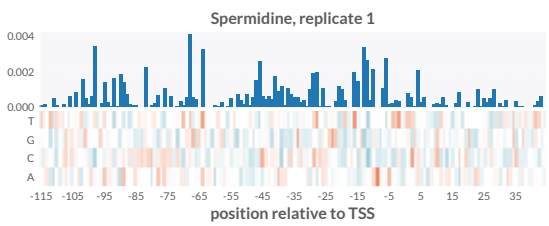

H2O2 (2.5mM, 10min), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

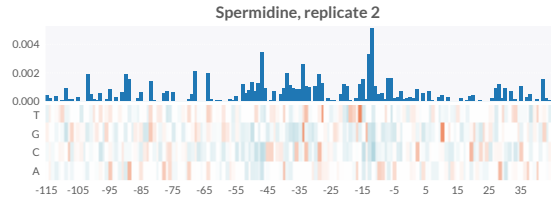

H2O2 (2.5mM, 10min), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

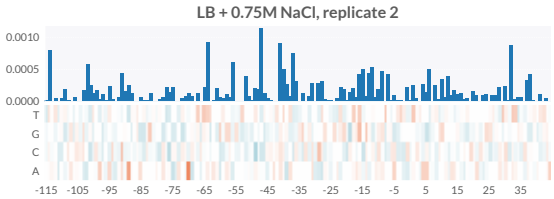

HOCl (4mM), replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

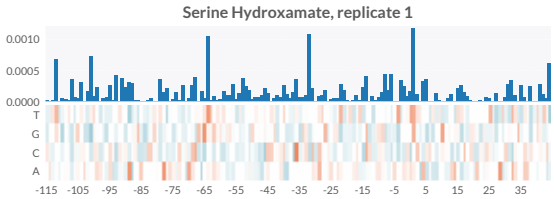

Gentamicin, replicate 1
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

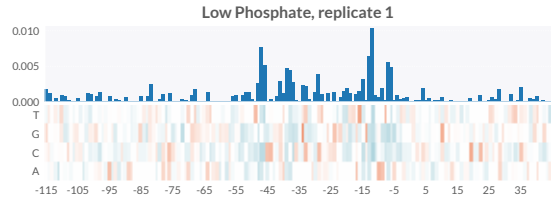

Spermidine, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

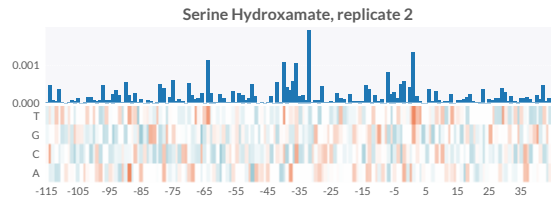
ykgRp

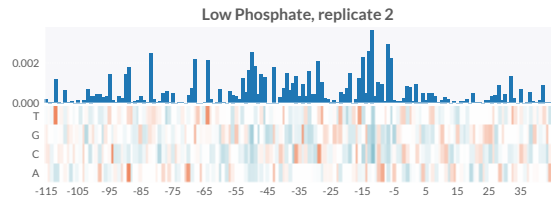

Spermidine, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

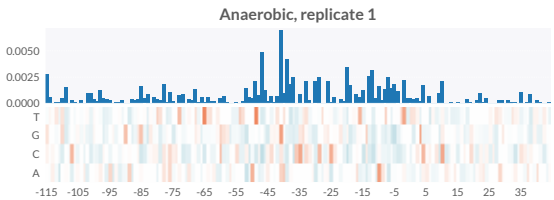

LB + 0.75M NaCl, replicate 2
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

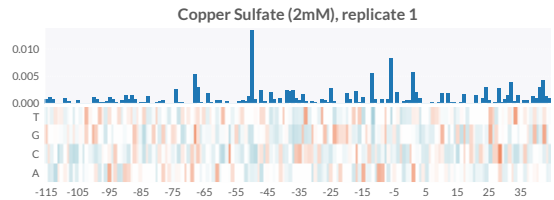

Serine Hydroxamate, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

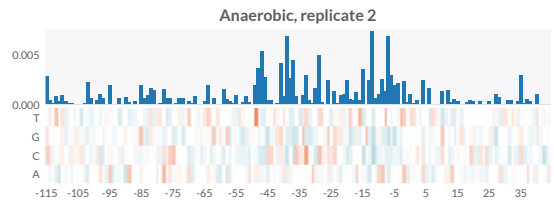

Low Phosphate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

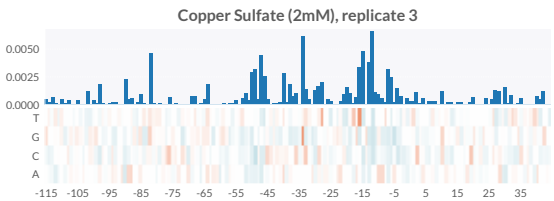

Serine Hydroxamate, replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

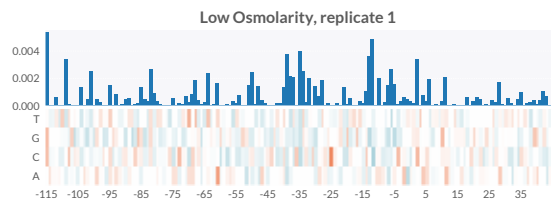

Low Phosphate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

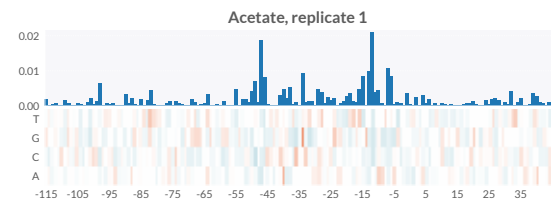

Anaerobic, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

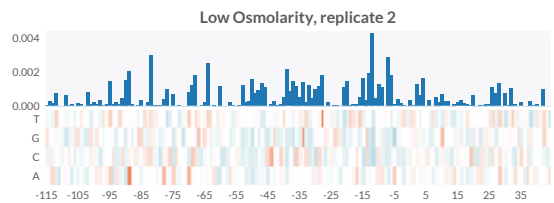

Copper Sulfate (2mM), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

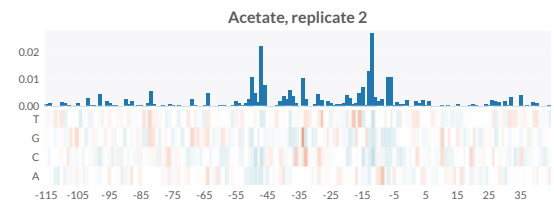

Anaerobic, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

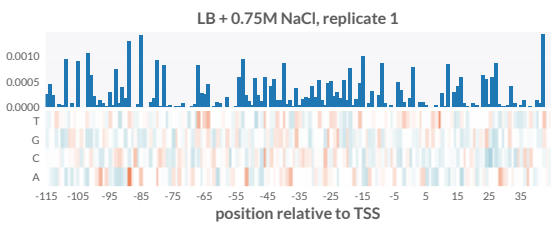

Copper Sulfate (2mM), replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

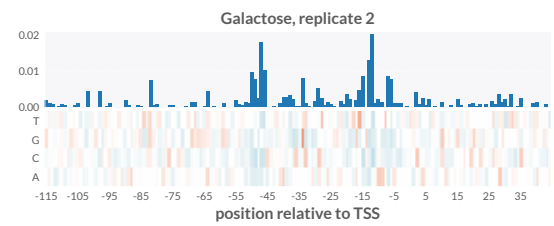

Low Osmolarity, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

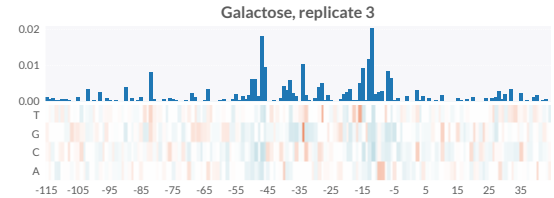

Low Osmolarity, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

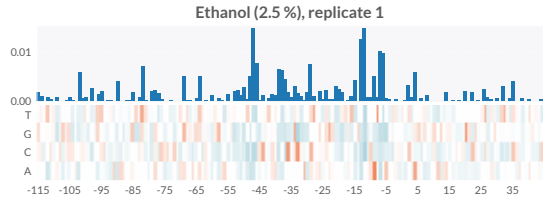

Acetate, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

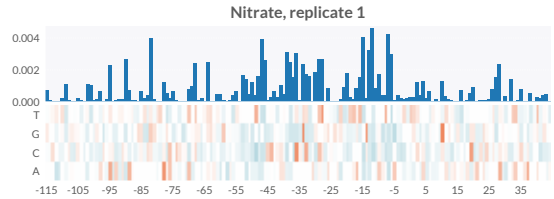

LB + 0.75M NaCl, replicate 1
0.0010
0.0005
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

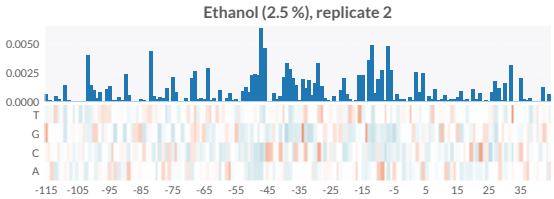

Galactose, replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

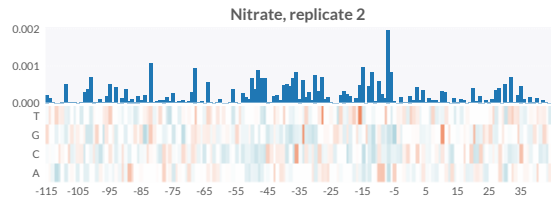
ykgRp

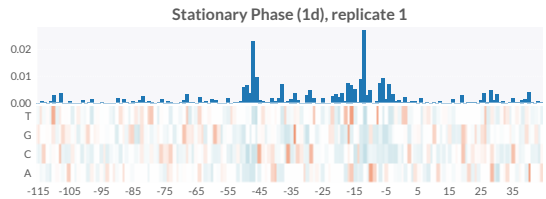

Galactose, replicate 3
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

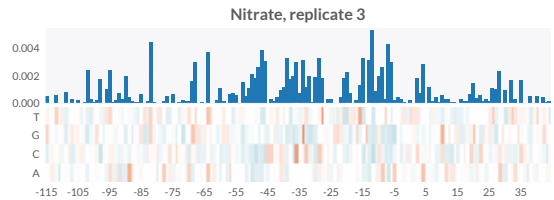

Ethanol (2.5 %), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

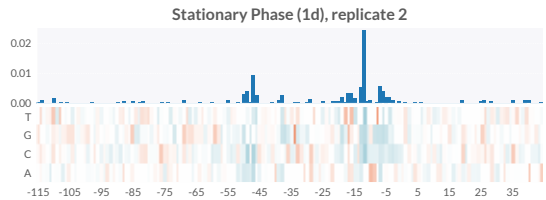

Nitrate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

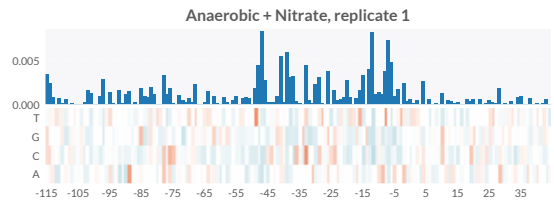

Ethanol (2.5 %), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

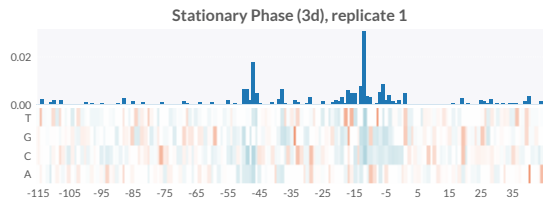

Nitrate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

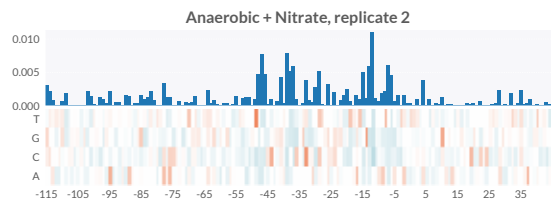

Stationary Phase (1d), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

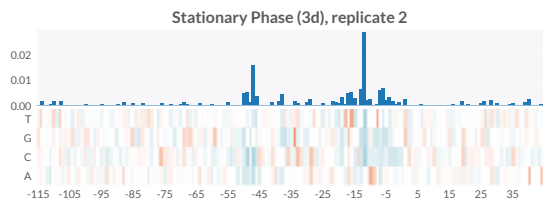

Nitrate, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

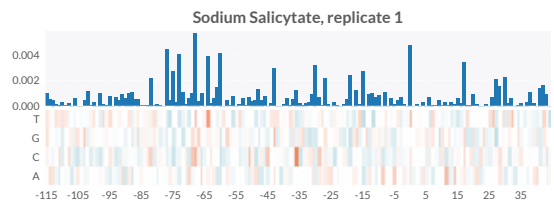

Stationary Phase (1d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

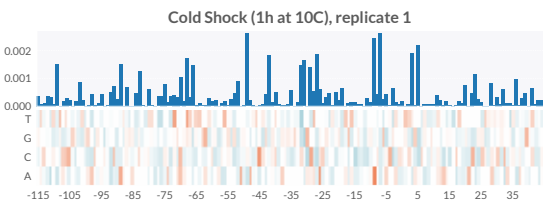

Anaerobic + Nitrate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

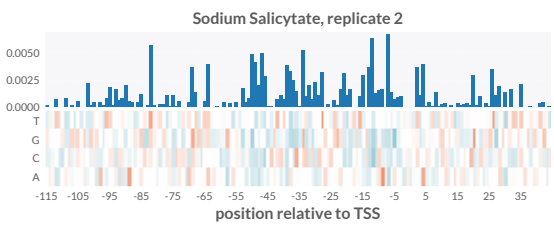

Stationary Phase (3d), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

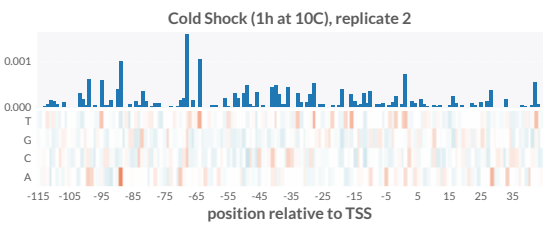

Anaerobic + Nitrate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

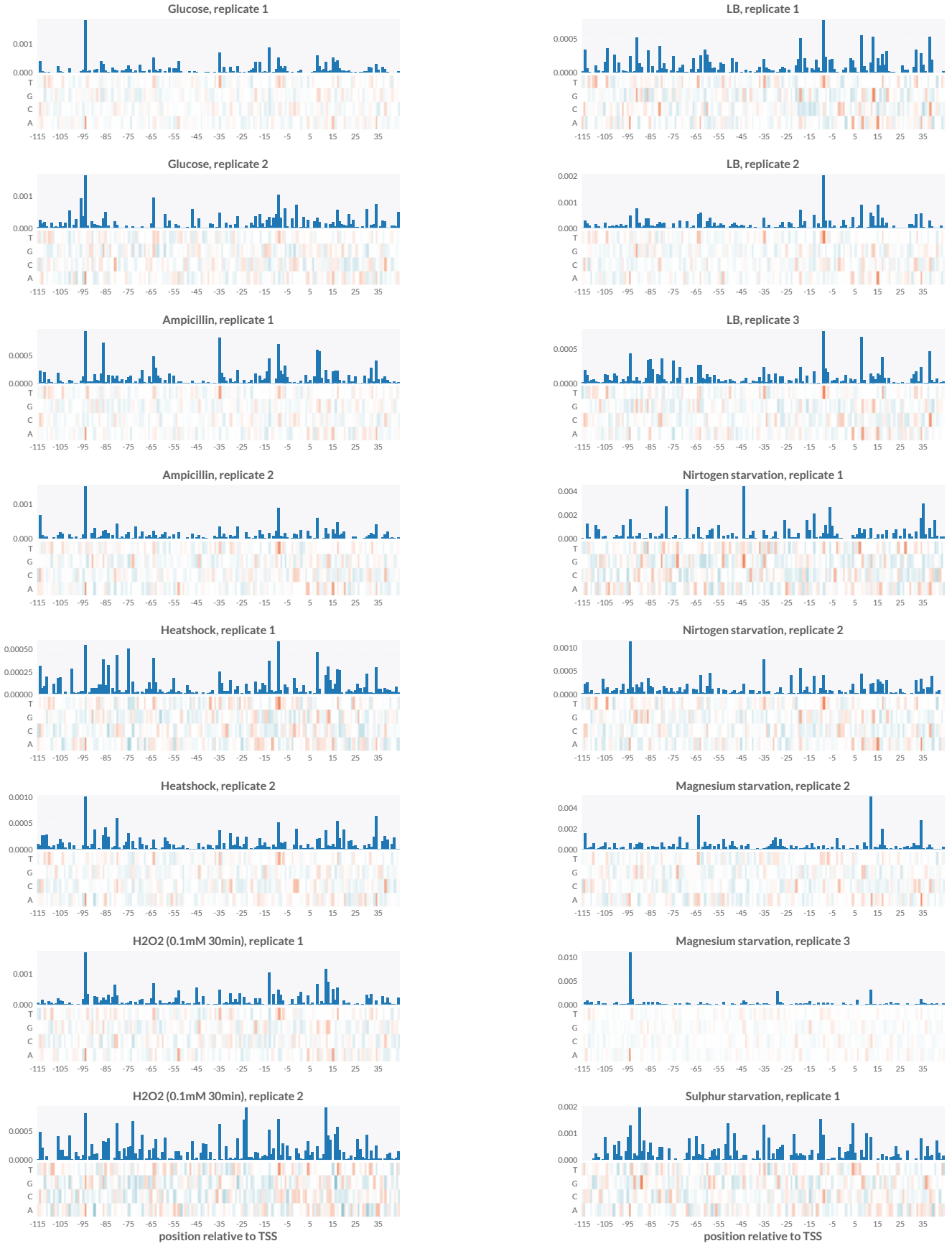

Sodium Salicytate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

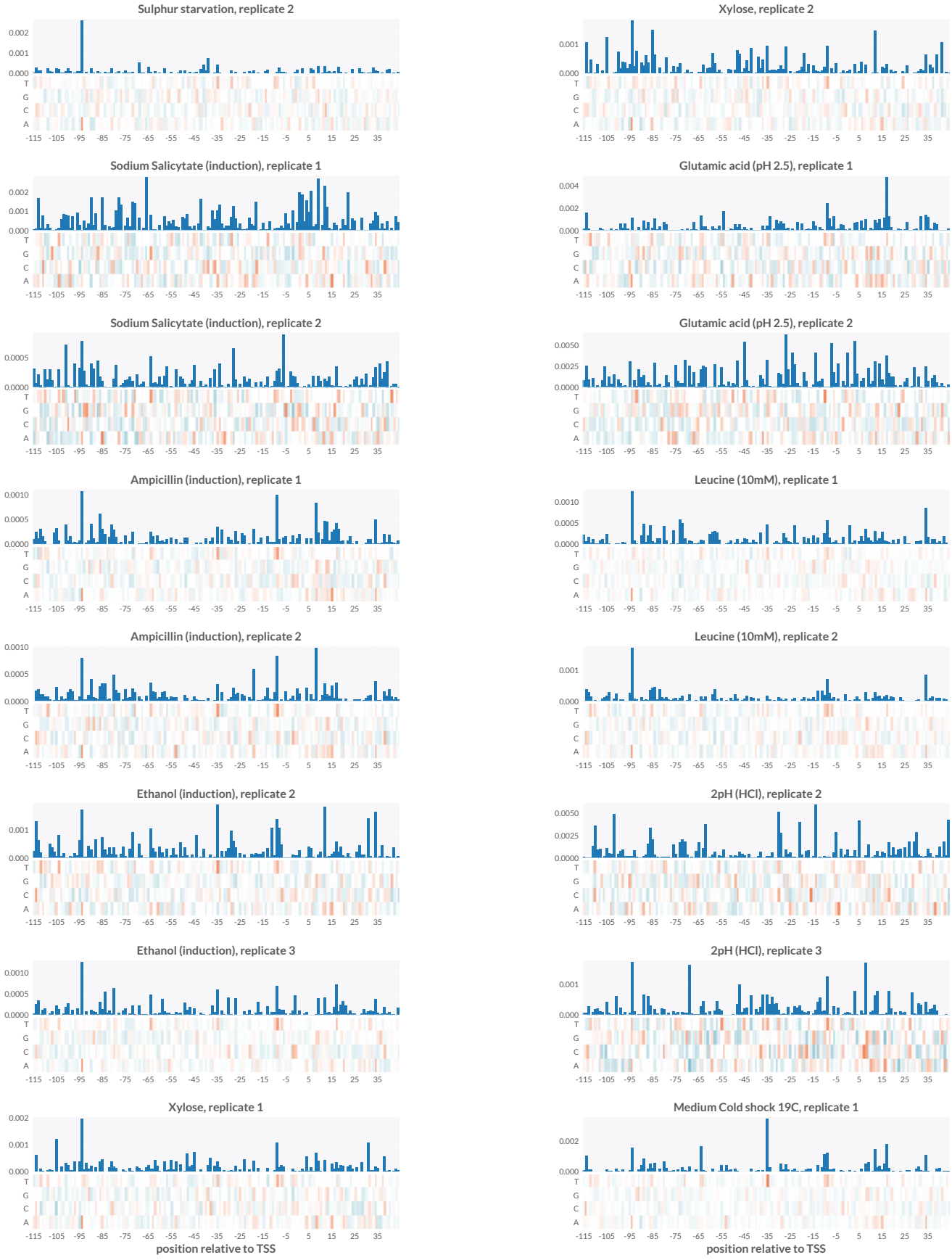

Sodium Salicytate, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

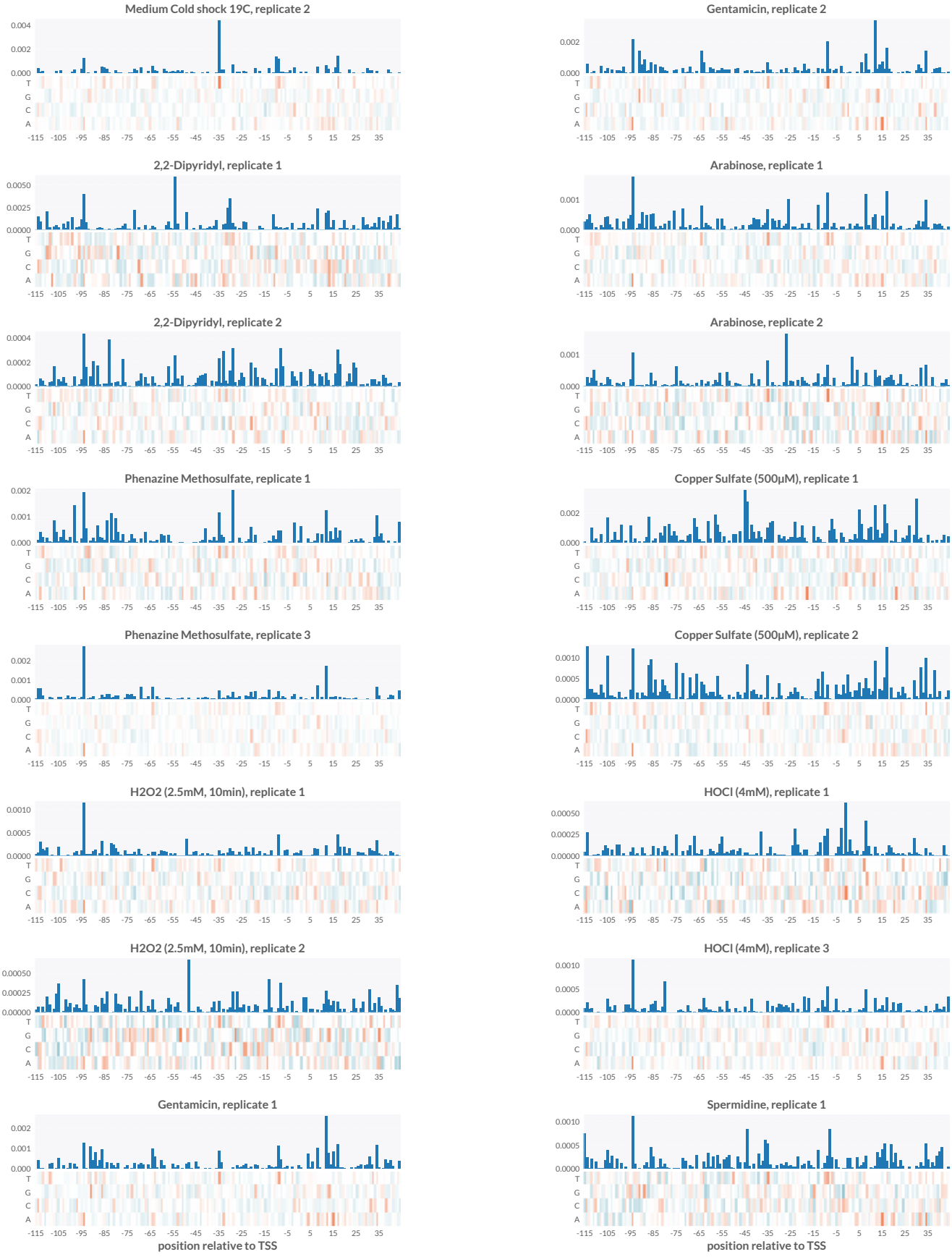
ymfM_beeE_jayE_ymfL_ymfR_tfaP_ymfT_ymfN_ycfK_ymfQ_predicted



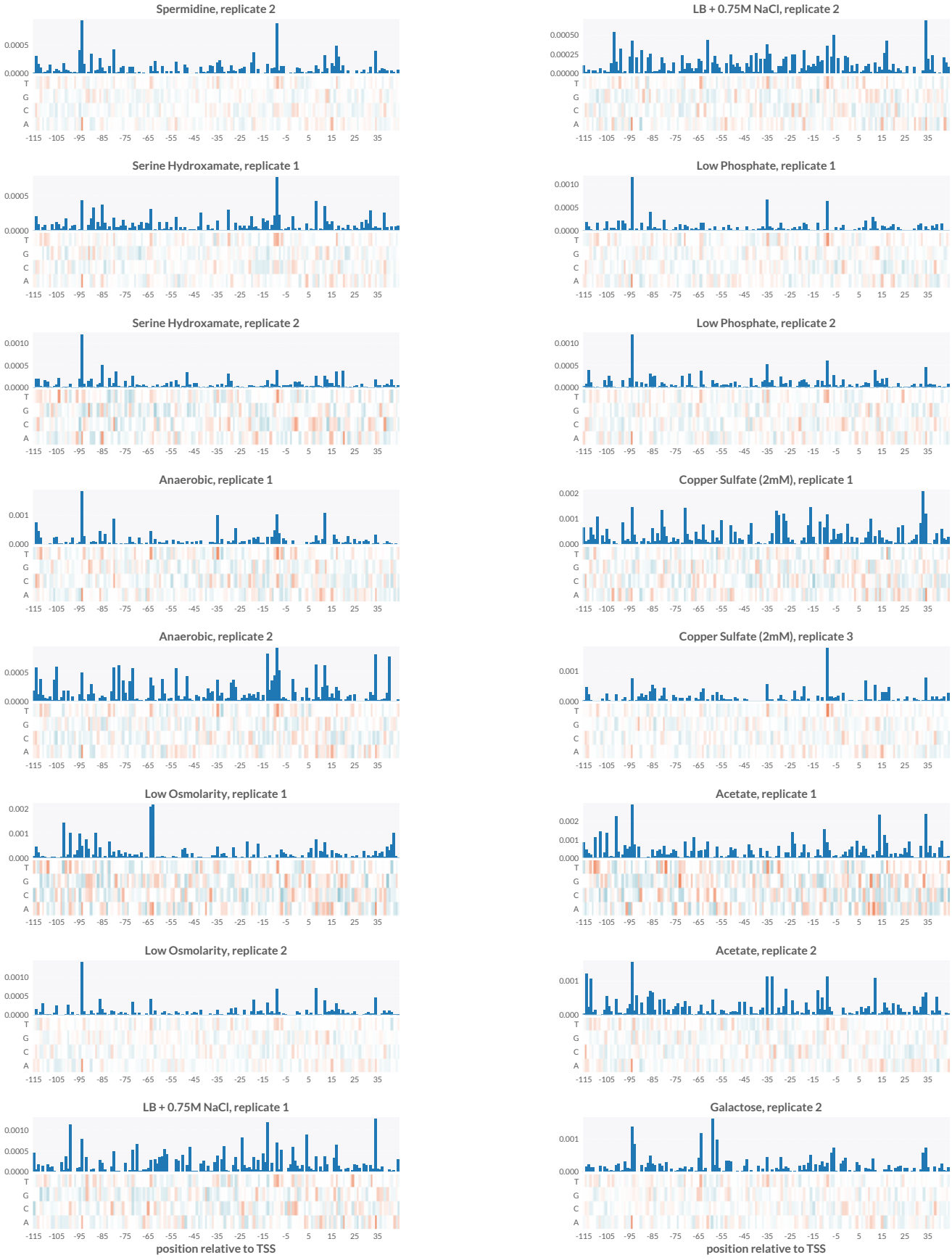
ymfM_beeE_jayE_ymfL_ymfR_tfaP_ymfT_ymfN_ycfK_ymfQ_predicted



ymfM_beeE_jayE_ymfL_ymfR_tfaP_ymfT_ymfN_ycfK_ymfQ_predicted



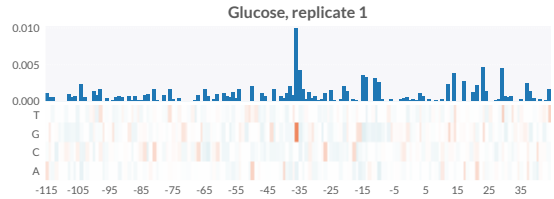
ymfM_beeE_jayE_ymfL_ymfR_tfaP_ymfT_ymfN_ycfK_ymfQ_predicted

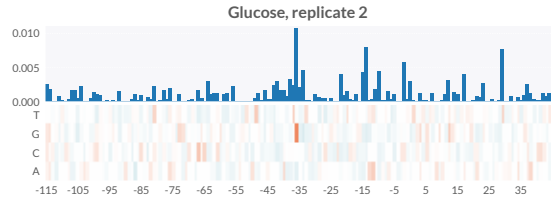


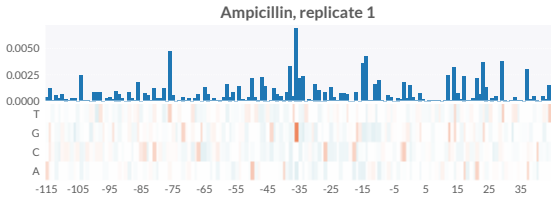
ymfM_beeE_jayE_ymfL_ymfR_tfaP_ymfT_ymfN_ycfK_ymfQ_predicted

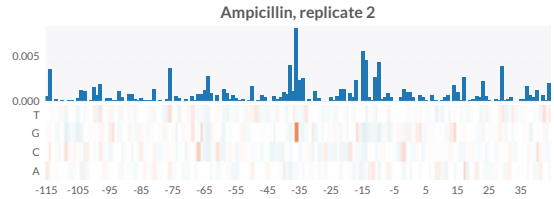


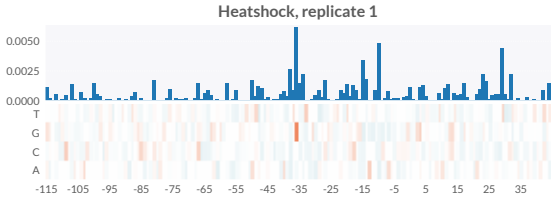
yncEp

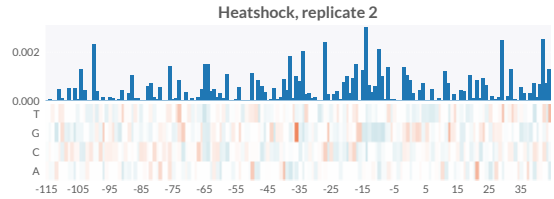

Glucose, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

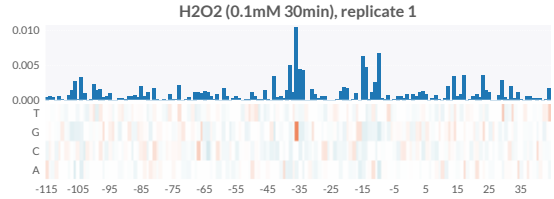

Glucose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

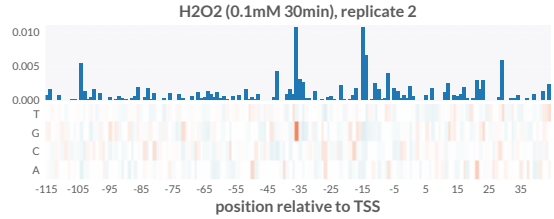

Ampicillin, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

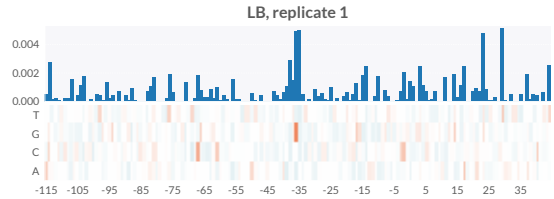

Ampicillin, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

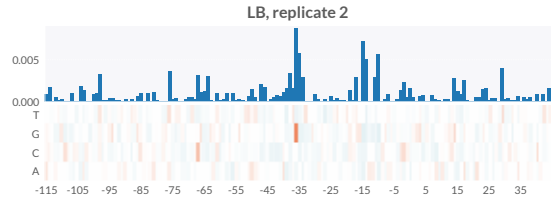

Heatshock, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

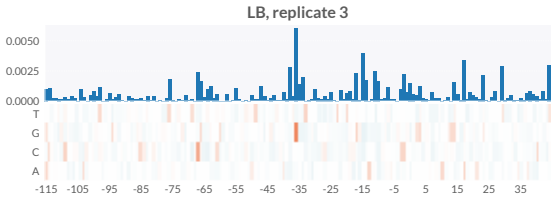

Heatshock, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

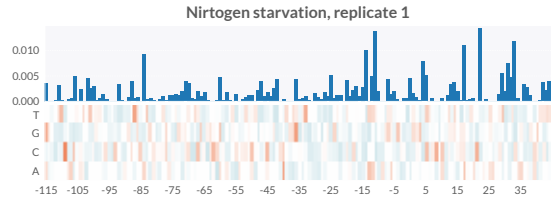

H2O2 (0.1mM 30min), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

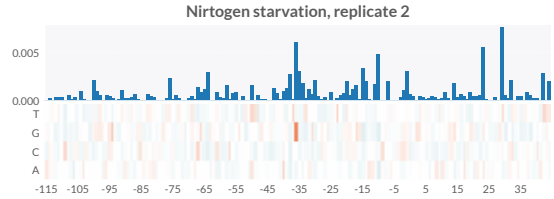

H2O2 (0.1mM 30min), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

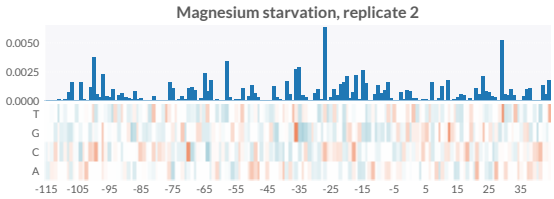

LB, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

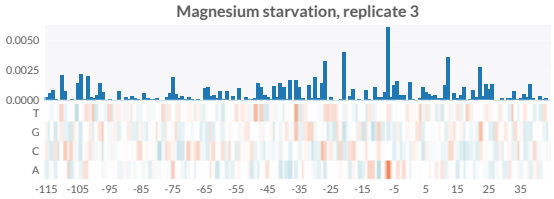

LB, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

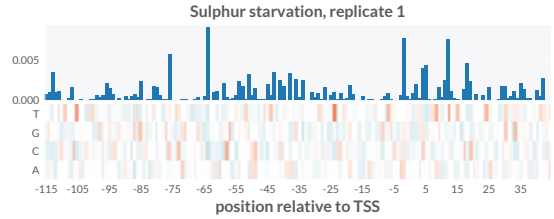

LB, replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Nirtogen starvation, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Nirtogen starvation, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Magnesium starvation, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

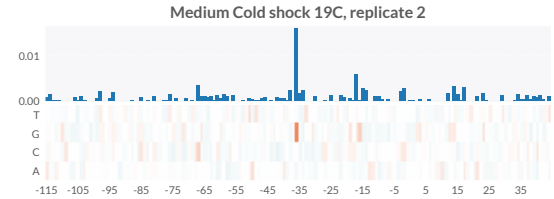

Magnesium starvation, replicate 3
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

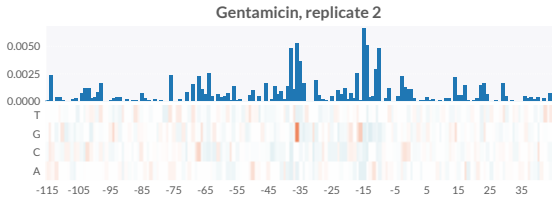

Sulphur starvation, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

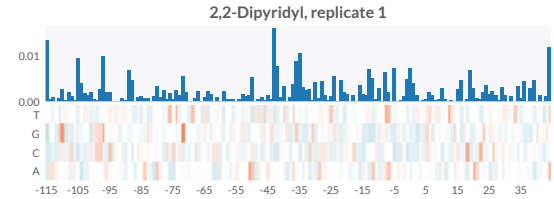
yncEp

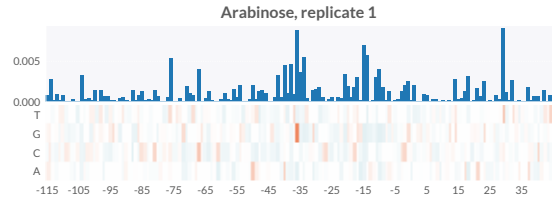

Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

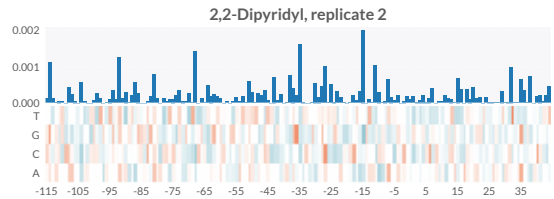
yncEp

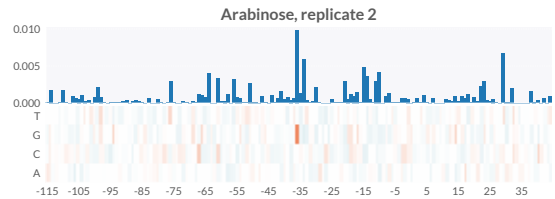

Medium Cold shock 19C, replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

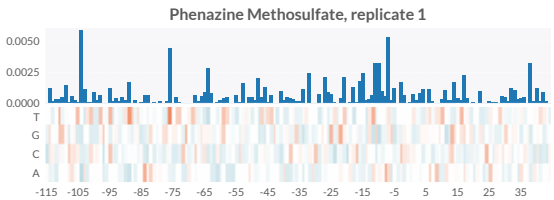

Gentamicin, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

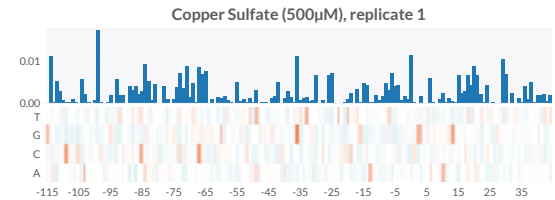

2,2-Dipyridyl, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

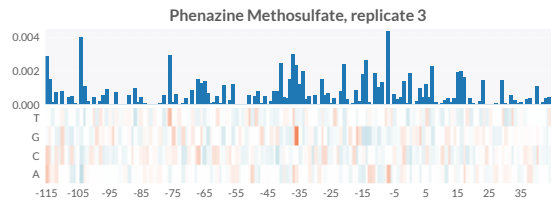

Arabinose, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

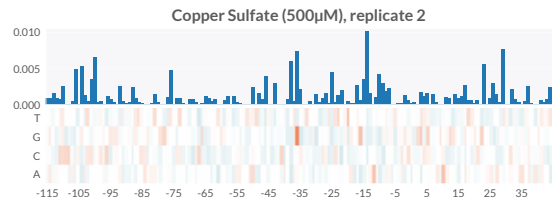

2,2-Dipyridyl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

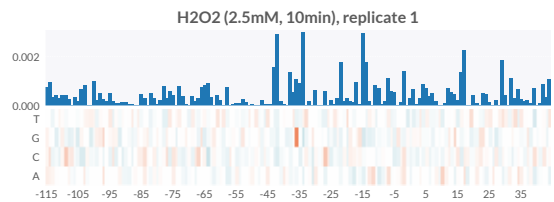

Arabinose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

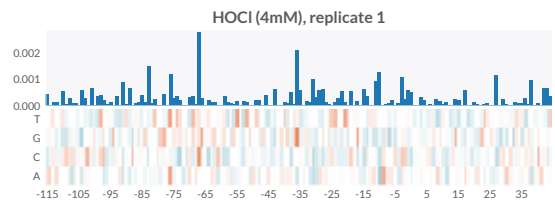

Phenazine Methosulfate, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

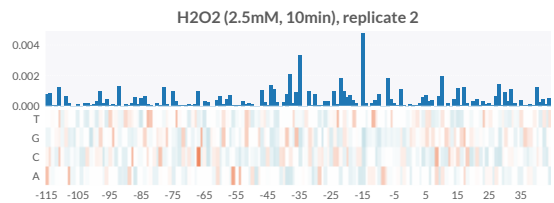

Copper Sulfate (500µM), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

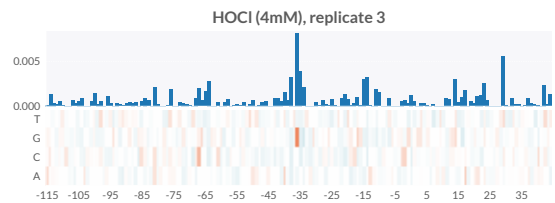

Phenazine Methosulfate, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

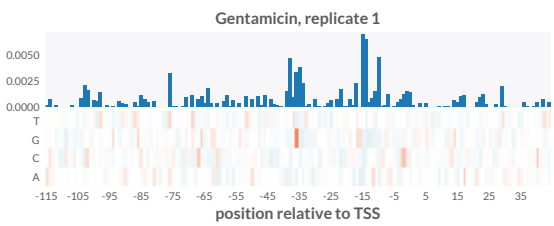

Copper Sulfate (500µM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

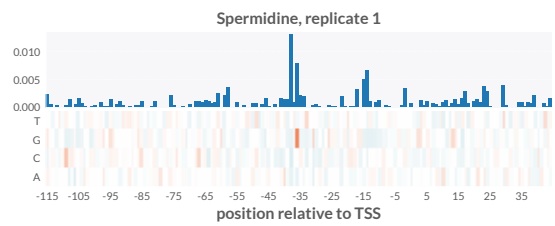

H2O2 (2.5mM, 10min), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

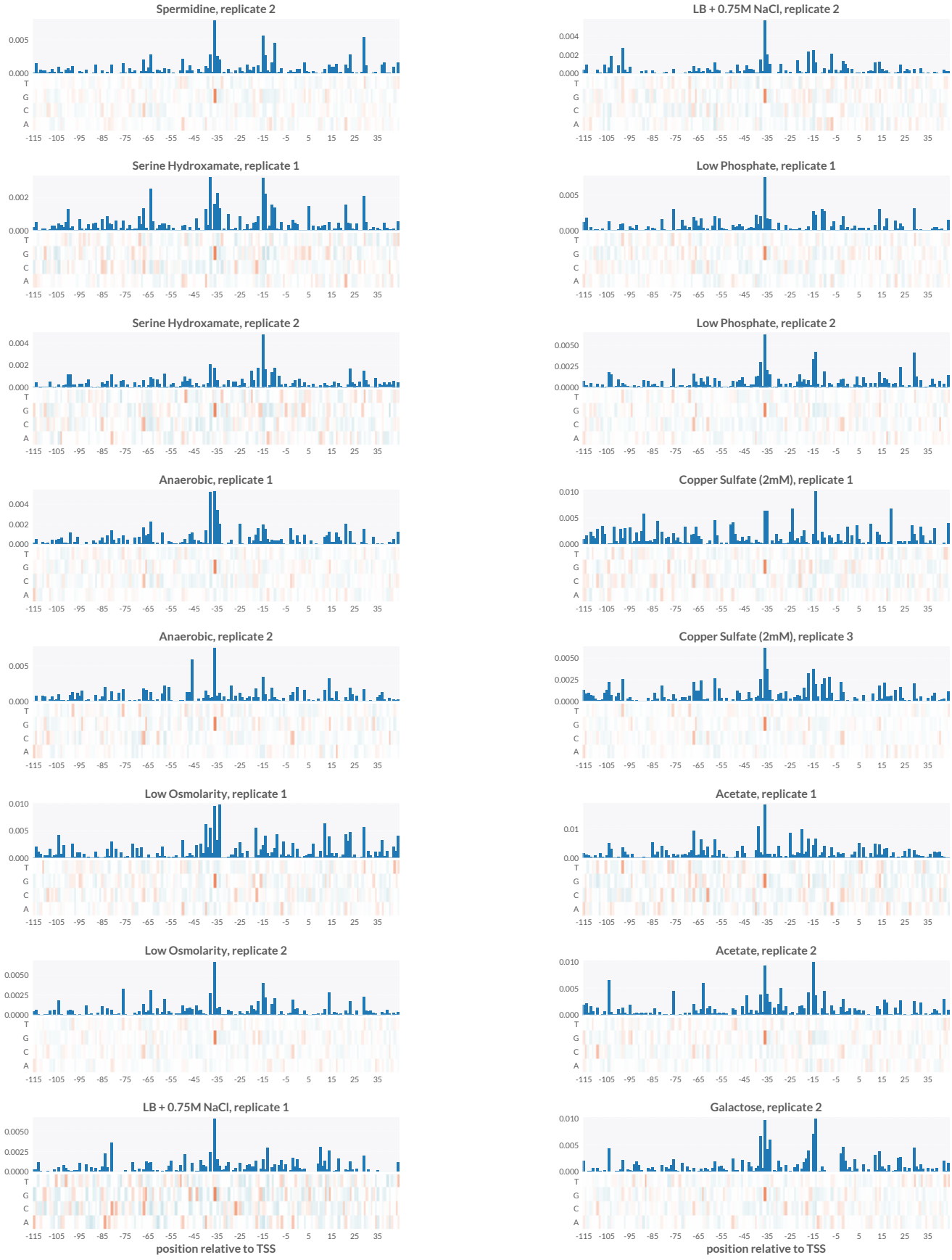

H2O2 (2.5mM, 10min), replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

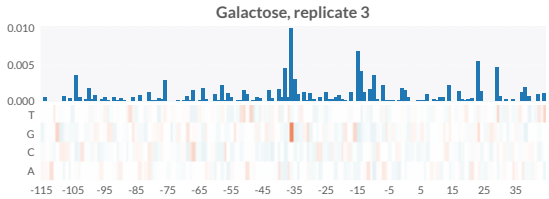

Gentamicin, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

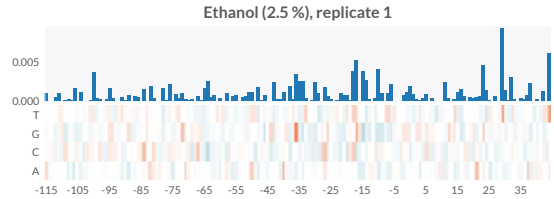

Spermidine, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

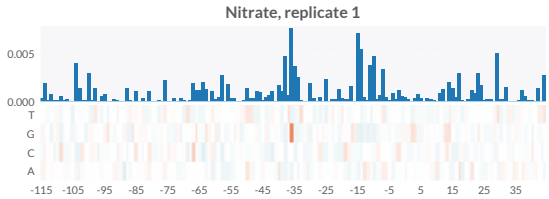
yncEp

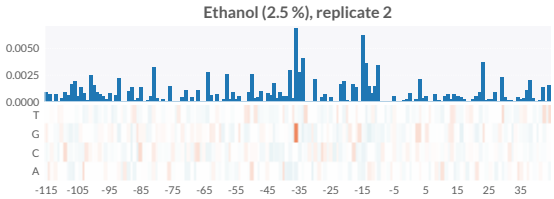

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

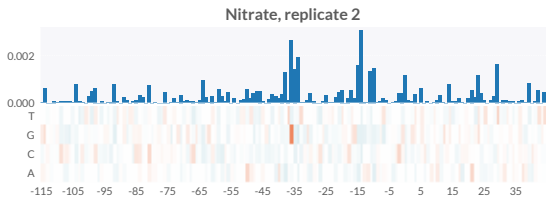
yncEp

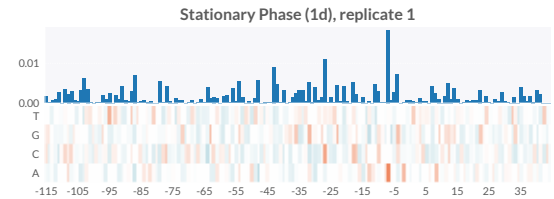

Galactose, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

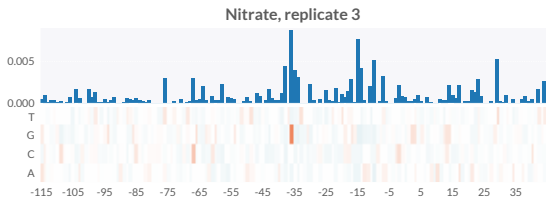

Ethanol (2.5 %), replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

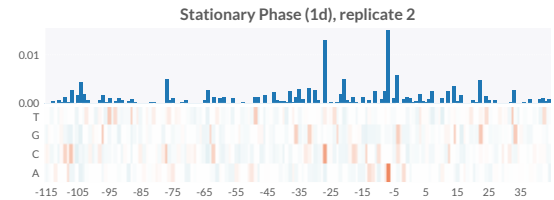

Nitrate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

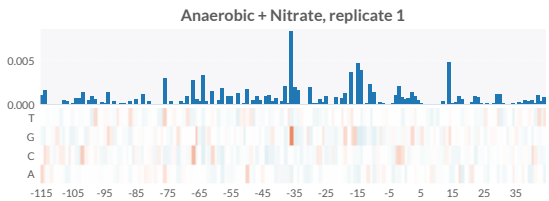

Ethanol (2.5 %), replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

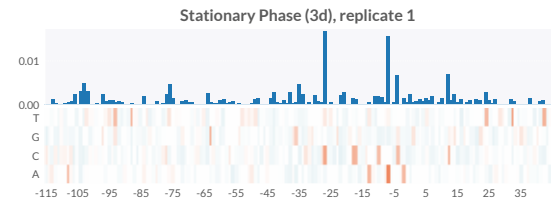

Nitrate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

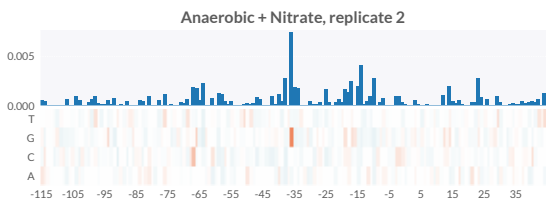

Stationary Phase (1d), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

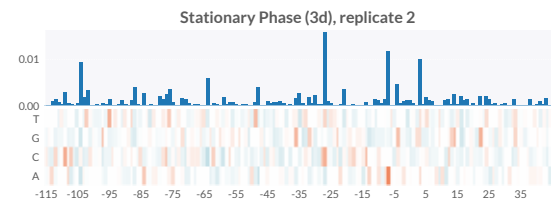

Nitrate, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

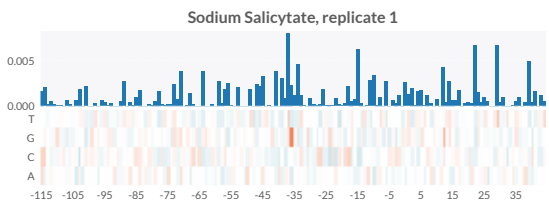

Stationary Phase (1d), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

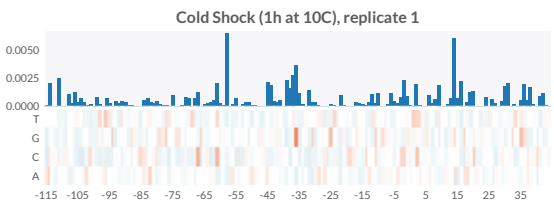

Anaerobic + Nitrate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

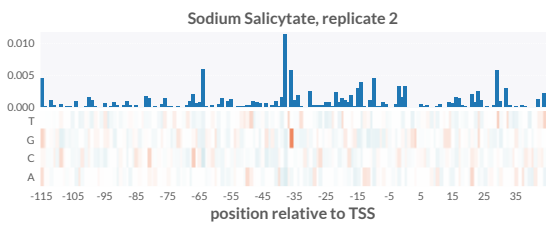

Stationary Phase (3d), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

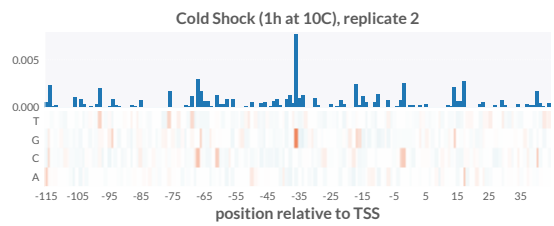

Anaerobic + Nitrate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

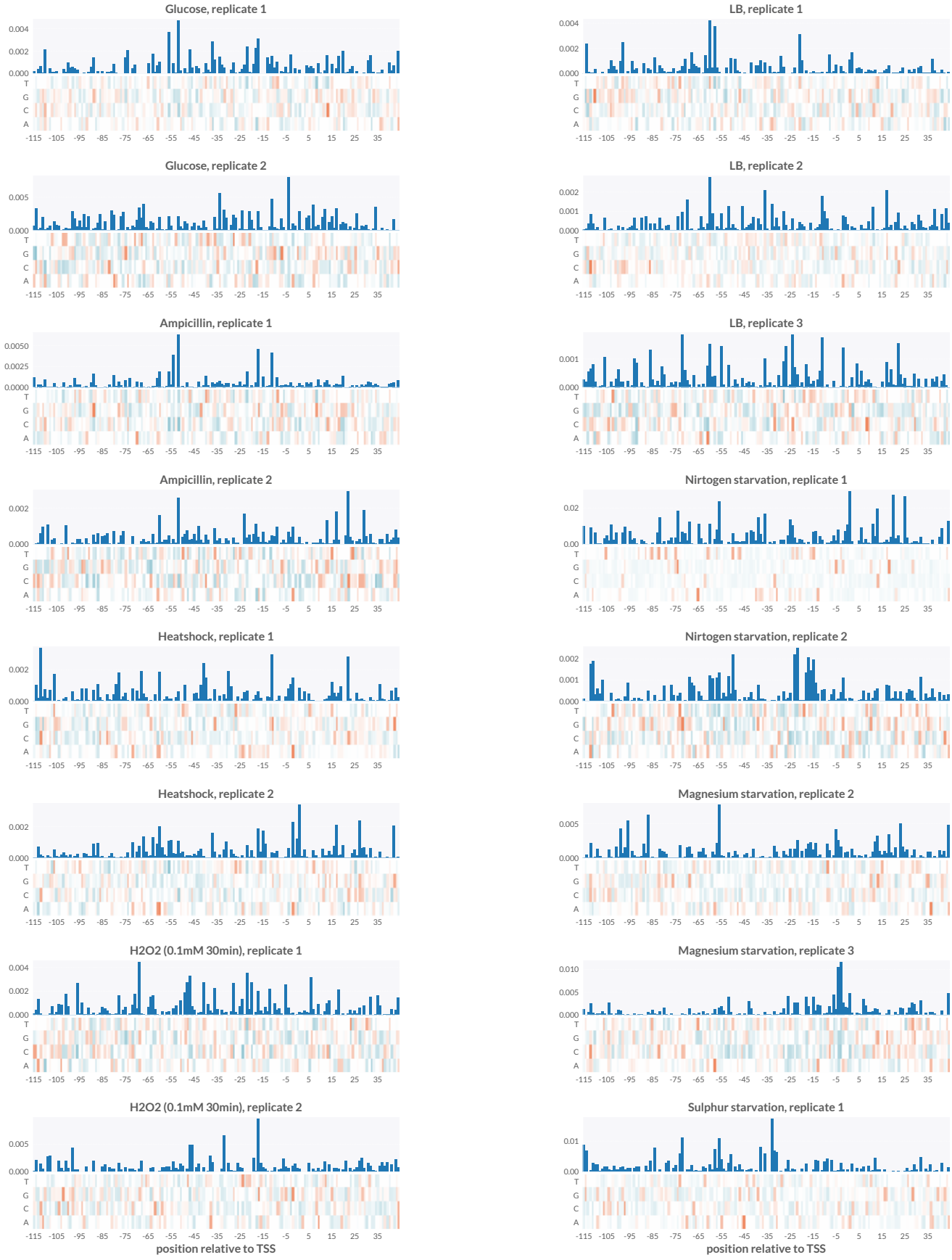

Sodium Salicytate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

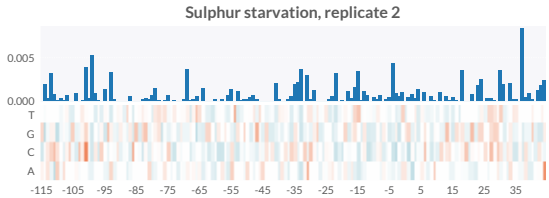

Sodium Salicytate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

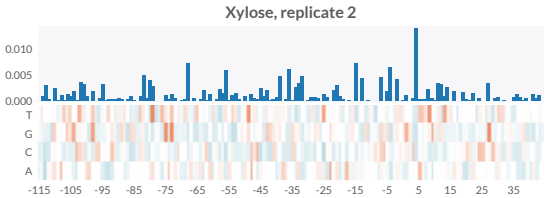

Cold Shock (1h at 10C), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

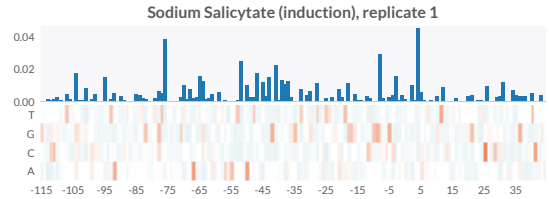
yqaEp

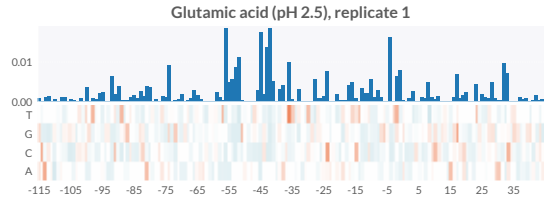

Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

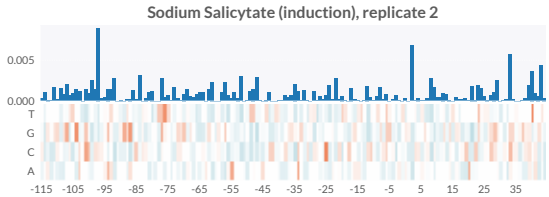
yqaEp

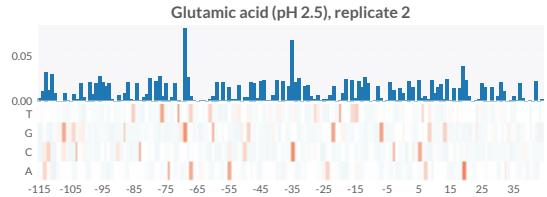

Sulphur starvation, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

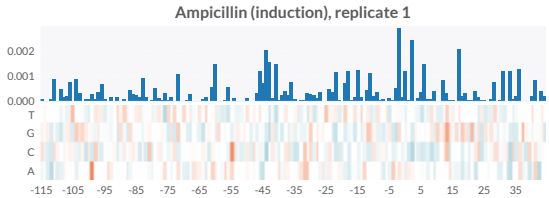

Xylose, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

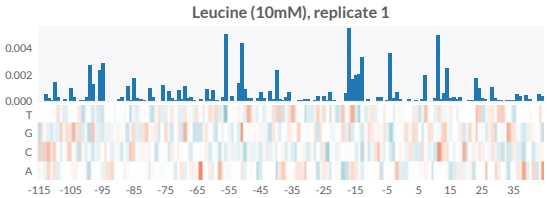

Sodium Salicytate (induction), replicate 1
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

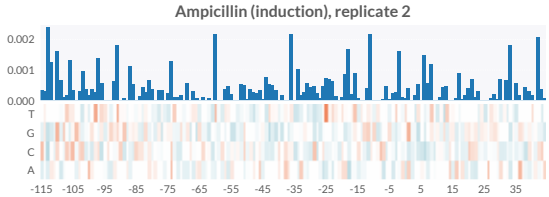

Glutamic acid (pH 2.5), replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

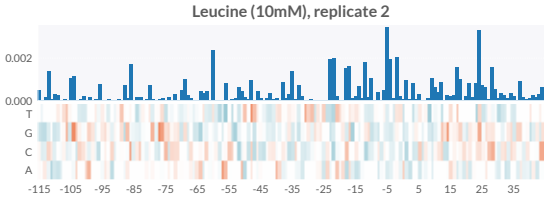

Sodium Salicytate (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

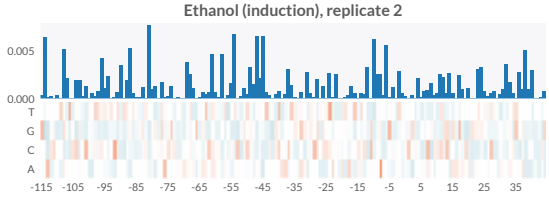

Glutamic acid (pH 2.5), replicate 2
0.05
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

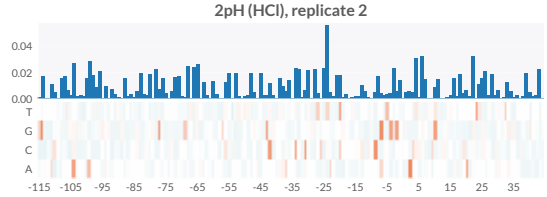

Ampicillin (induction), replicate 1
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

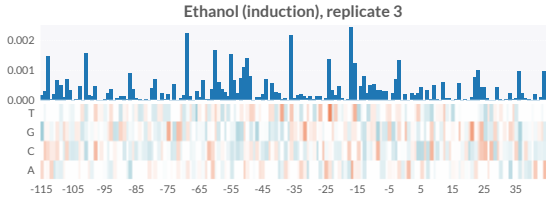

Leucine (10mM), replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

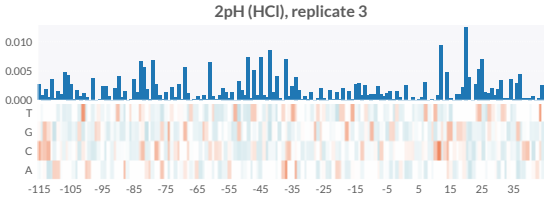

Ampicillin (induction), replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

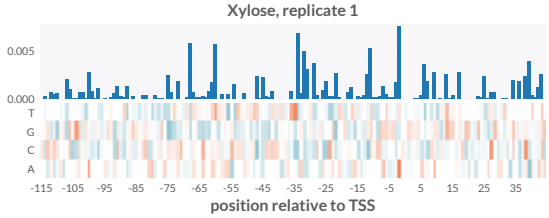

Leucine (10mM), replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

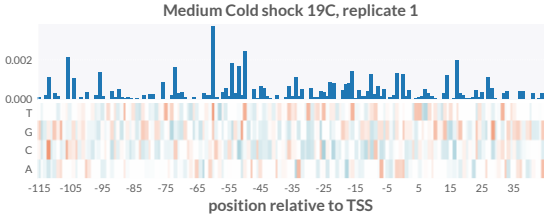

Ethanol (induction), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


2pH (HCl), replicate 2
0.04
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

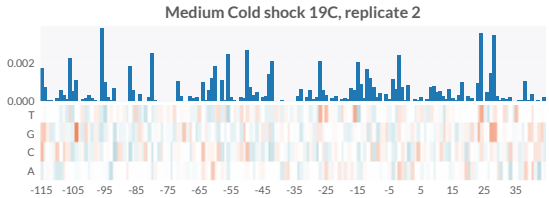

Ethanol (induction), replicate 3
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

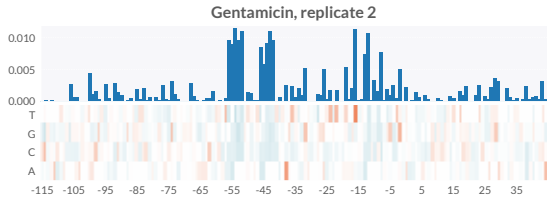

2pH (HCl), replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

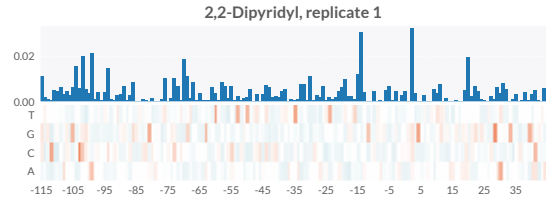

Xylose, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

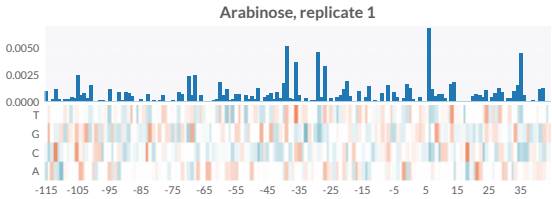

Medium Cold shock 19C, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

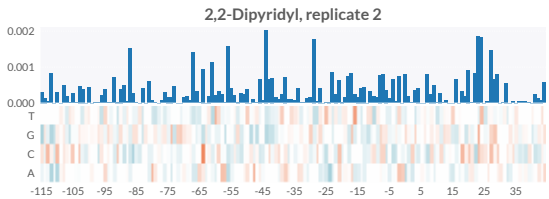
yqaEp

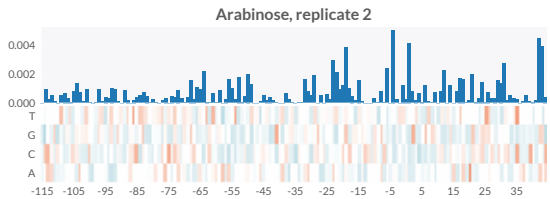

Medium Cold shock 19C, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

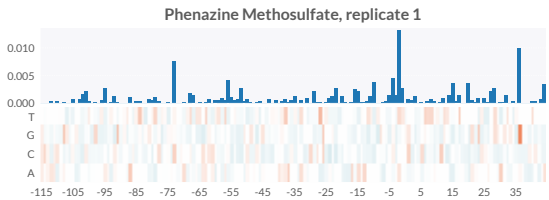

Gentamicin, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

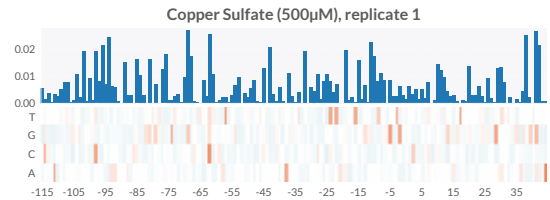

2,2-Dipyridyl, replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

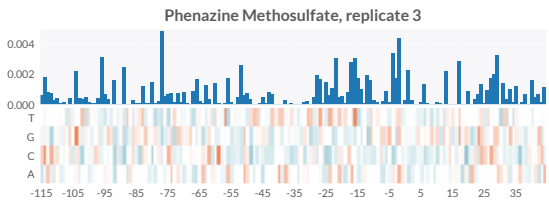

Arabinose, replicate 1
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

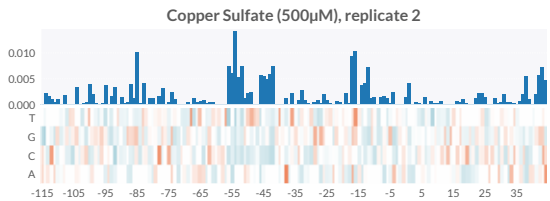

2,2-Dipyridyl, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

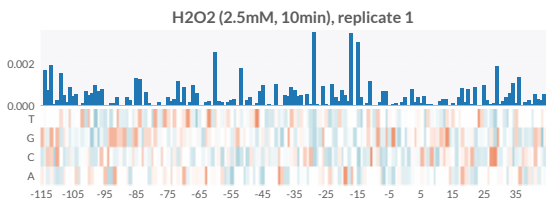

Arabinose, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

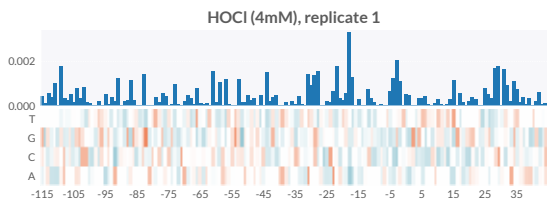

Phenazine Methosulfate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

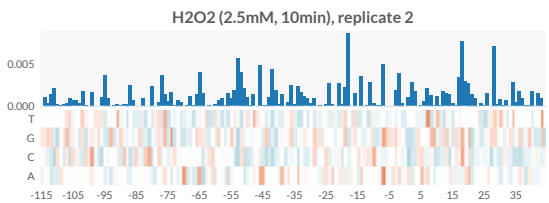

Copper Sulfate (500µM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

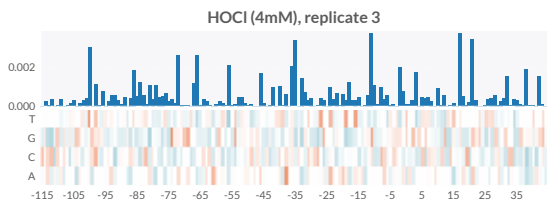

Phenazine Methosulfate, replicate 3
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

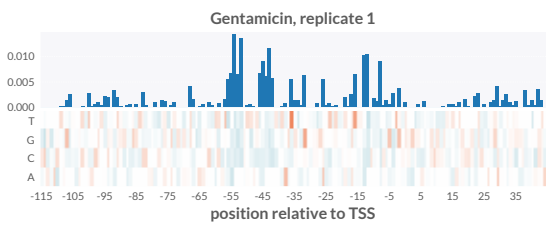

Copper Sulfate (500µM), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

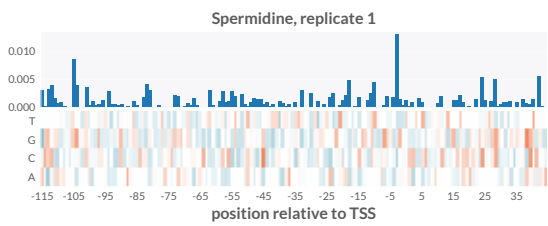

H2O2 (2.5mM, 10min), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


HOCl (4mM), replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

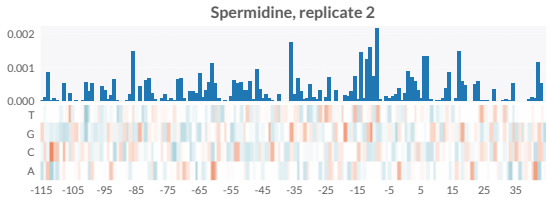

H2O2 (2.5mM, 10min), replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

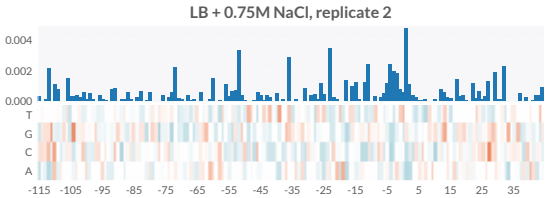

HOCl (4mM), replicate 3
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

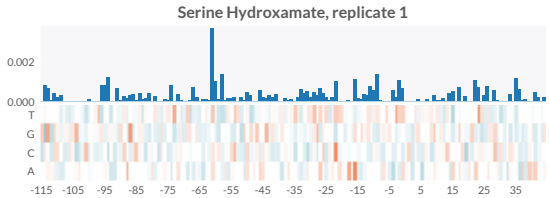

Gentamicin, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

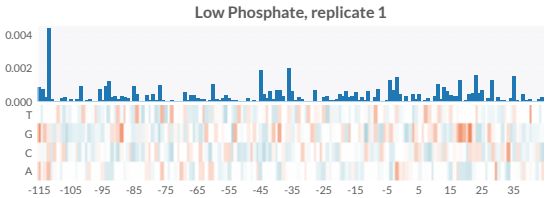

Spermidine, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

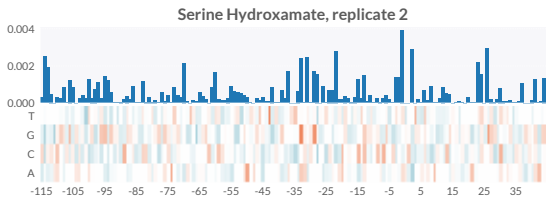
yqaEp

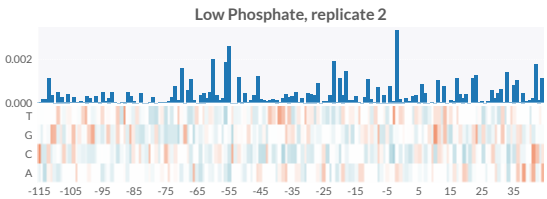

Spermidine, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

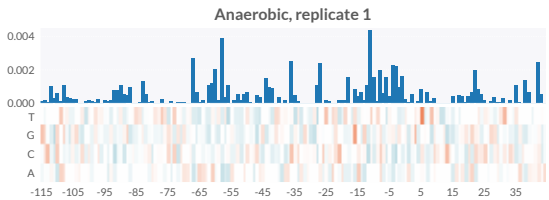

LB + 0.75M NaCl, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

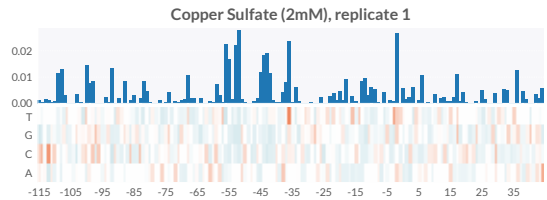

Serine Hydroxamate, replicate 1
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

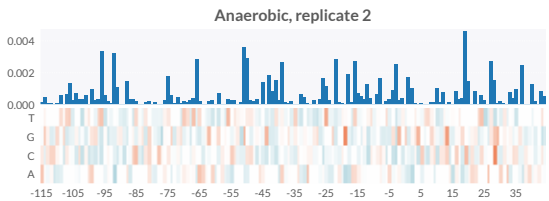

Low Phosphate, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

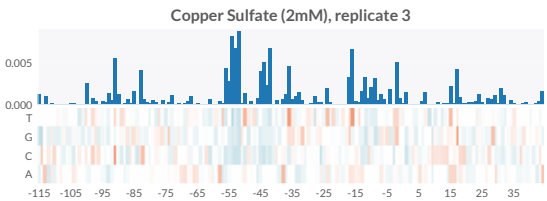

Serine Hydroxamate, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

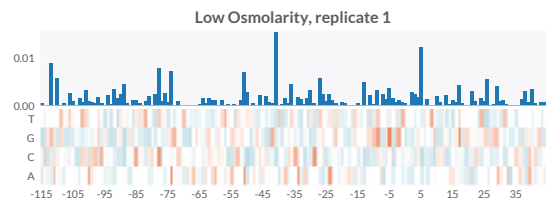

Low Phosphate, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

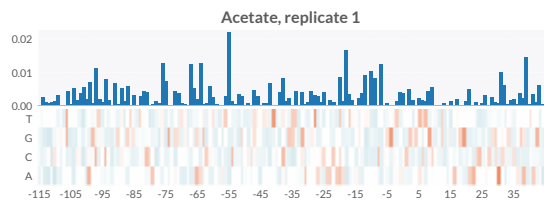

Anaerobic, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

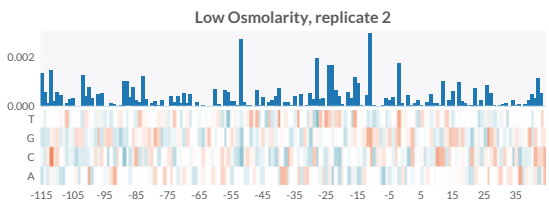

Copper Sulfate (2mM), replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

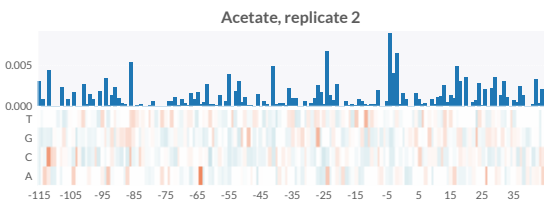

Anaerobic, replicate 2
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

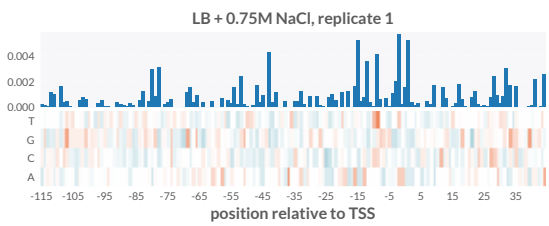

Copper Sulfate (2mM), replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

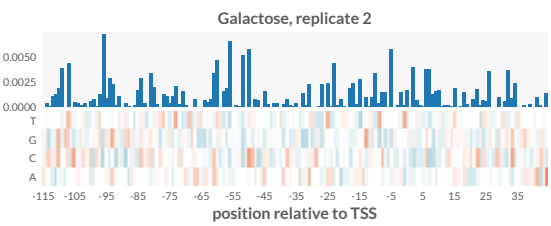

Low Osmolarity, replicate 1
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 1
0.02
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

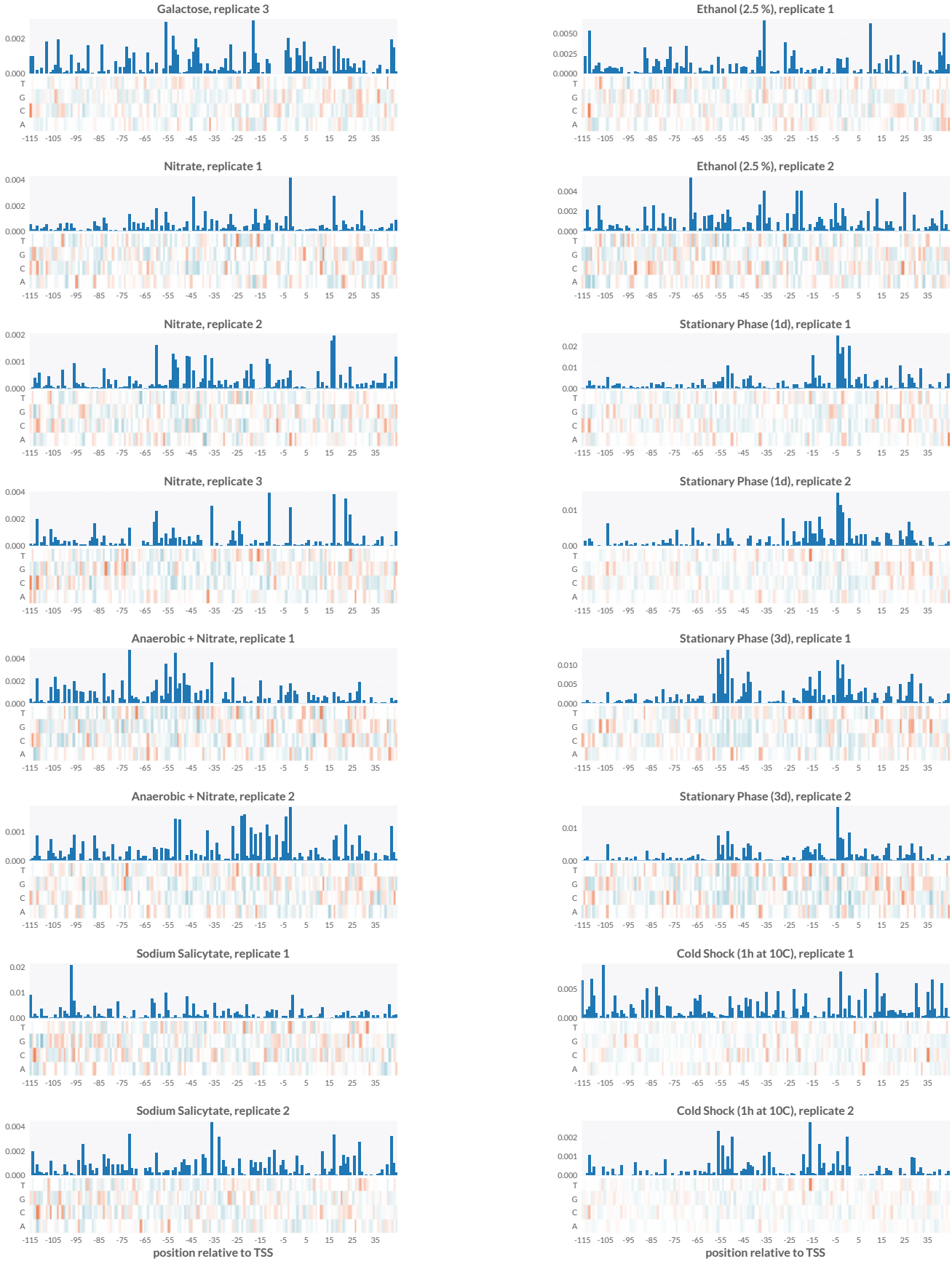

Low Osmolarity, replicate 2
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Acetate, replicate 2
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


LB + 0.75M NaCl, replicate 1
0.004
0.002
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Galactose, replicate 2
0.0050
0.0025
0.0000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

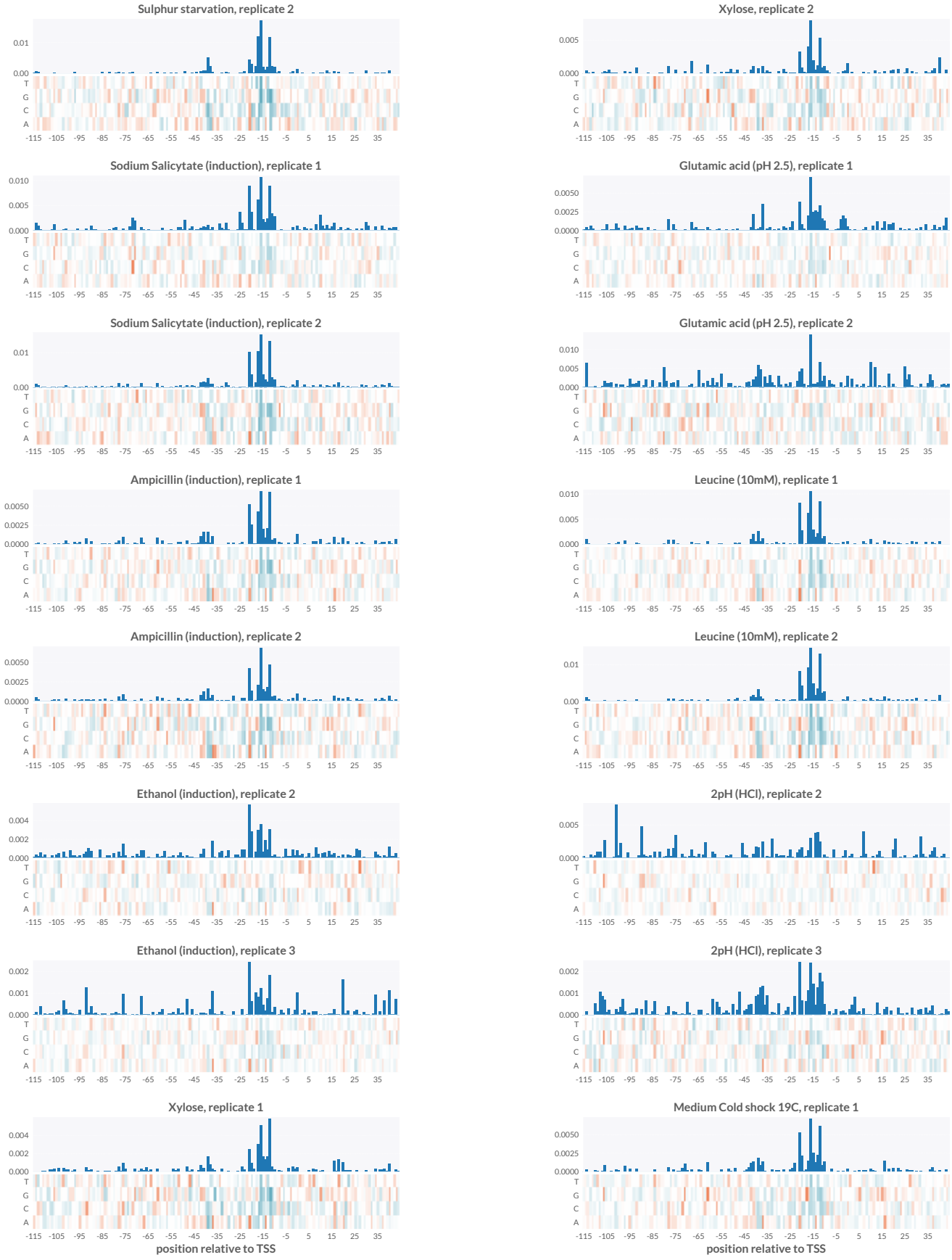
yqaEp


Galactose, replicate 3
Ethanol (2.5 %), replicate 1
Nitrate, replicate 1
Ethanol (2.5 %), replicate 2
Nitrate, replicate 2
Stationary Phase (1d), replicate 1
Nitrate, replicate 3
Stationary Phase (1d), replicate 2
Anaerobic + Nitrate, replicate 1
Stationary Phase (3d), replicate 1
Anaerobic + Nitrate, replicate 2
Stationary Phase (3d), replicate 2
Sodium Salicytate, replicate 1
Cold Shock (1h at 10C), replicate 1
Sodium Salicytate, replicate 2
Cold Shock (1h at 10C), replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

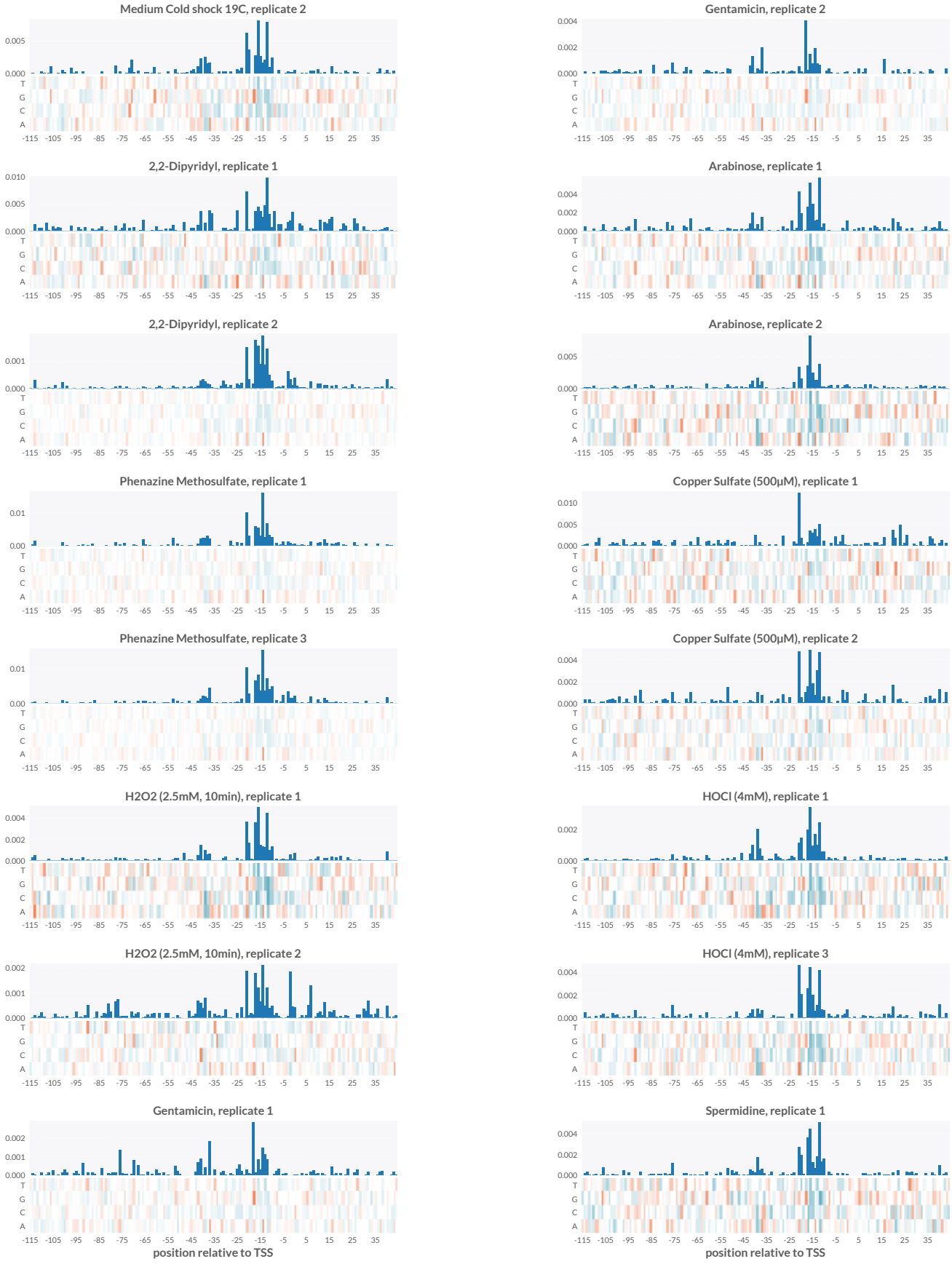
yqjE_yqjK_yqjD_yqjC_predicted



yqjE_yqjK_yqjD_yqjC_predicted



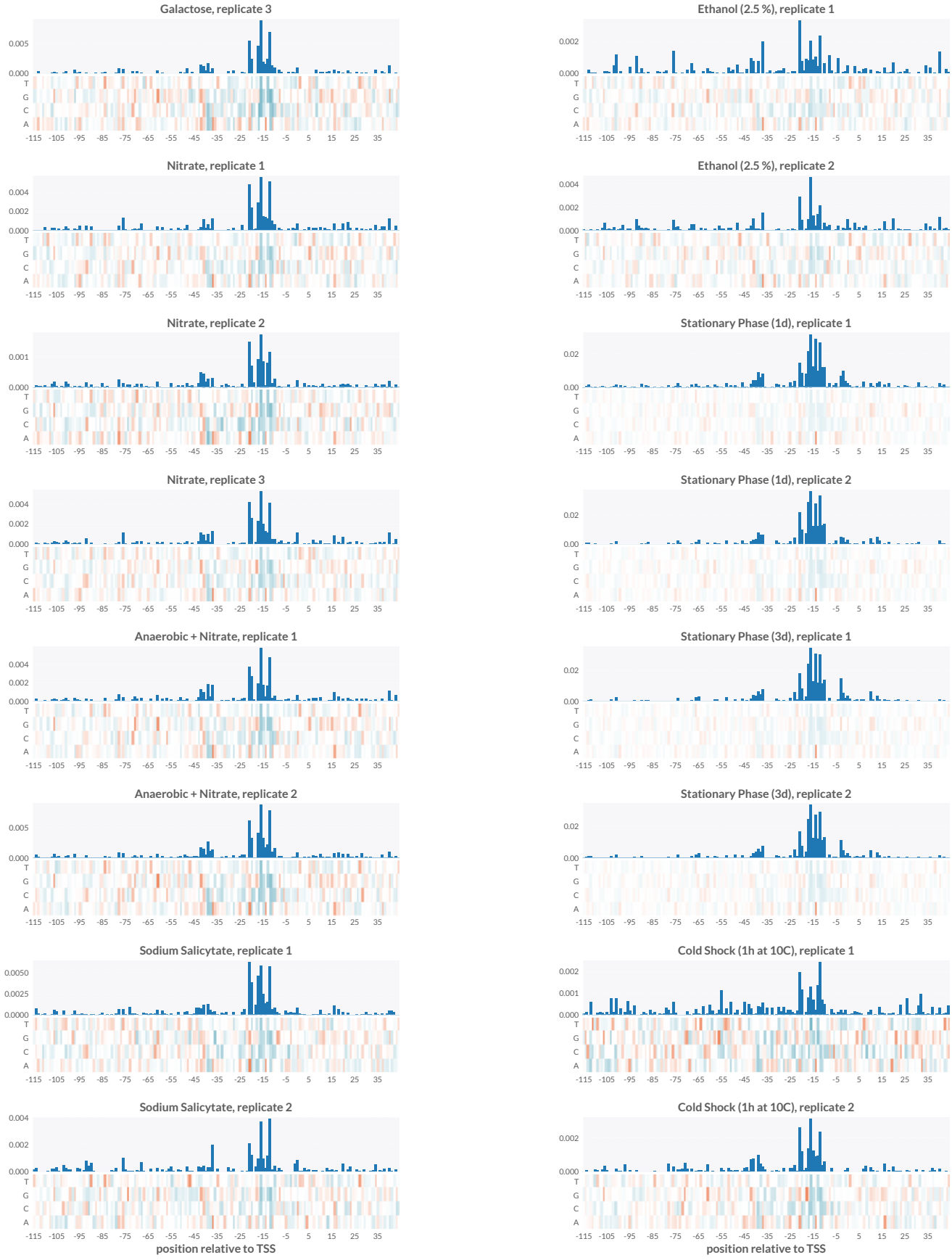
yqjE_yqjK_yqjD_yqjC_predicted



yqjE_yqjK_yqjD_yqjC_predicted



yqjE_yqjK_yqjD_yqjC_predicted



zapB_predicted



zapB_predicted



zapB_predicted



zapB_predicted



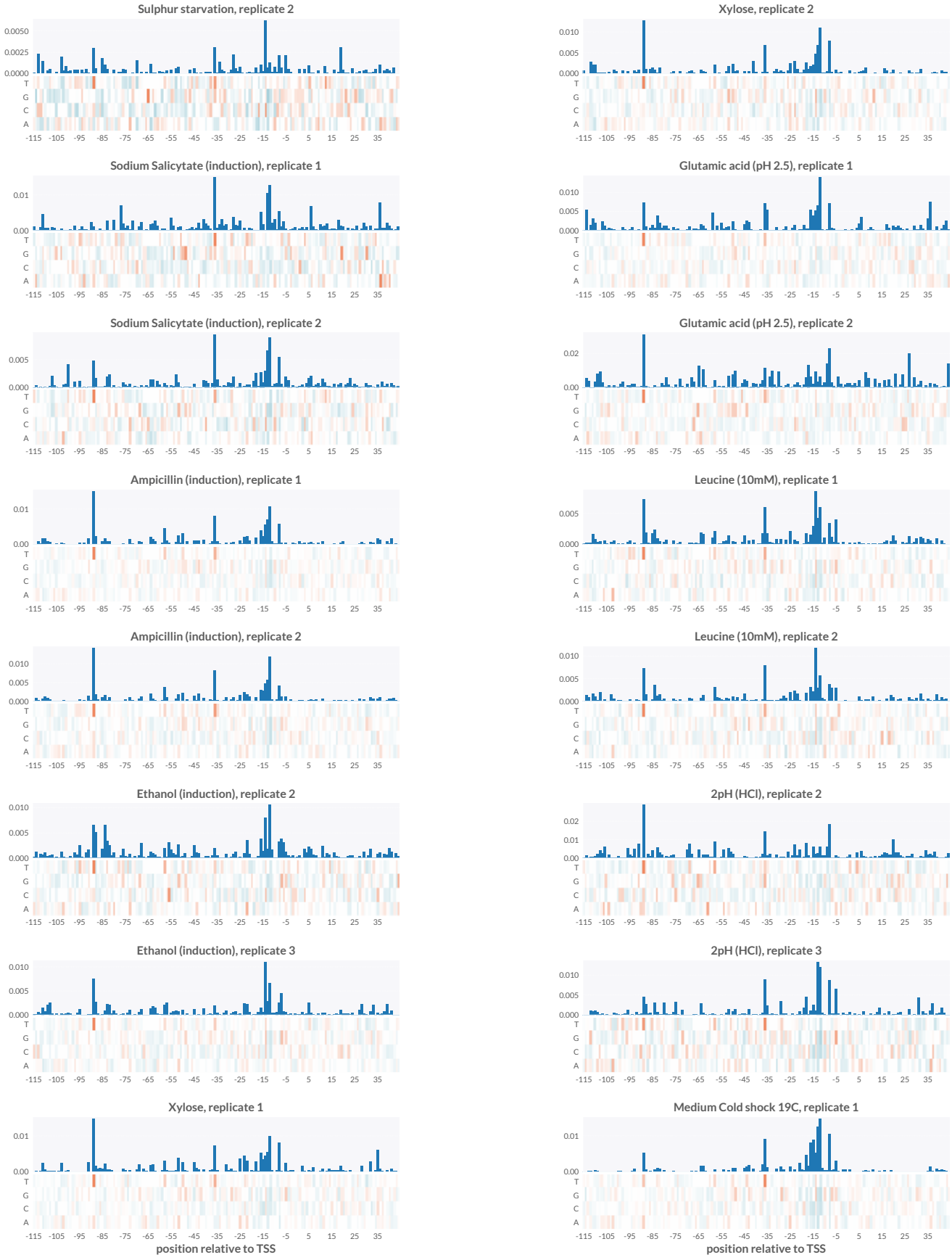
zapB_predicted



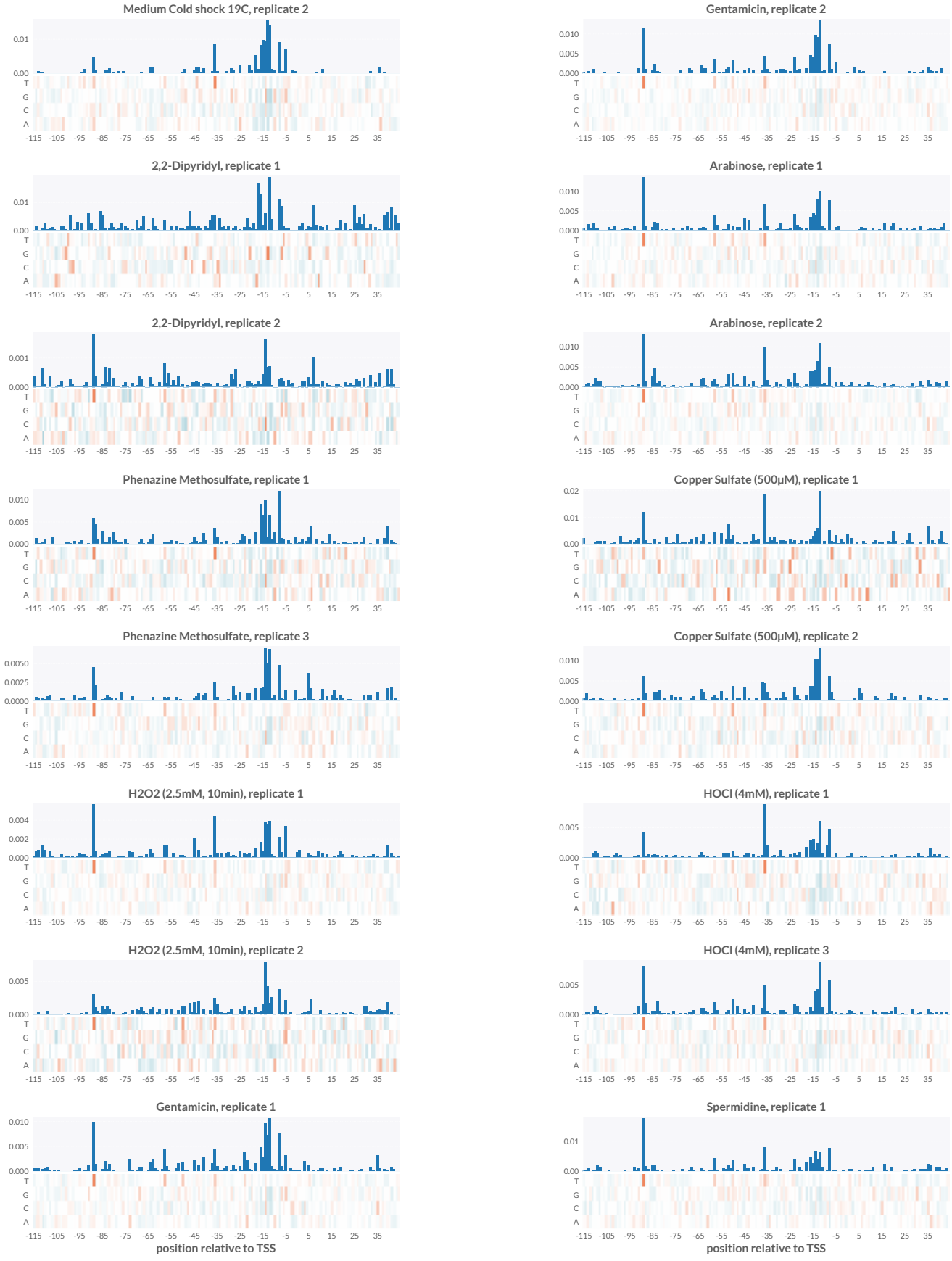
znuCp


Glucose, replicate 1
LB, replicate 1
Glucose, replicate 2
LB, replicate 2
Ampicillin, replicate 1
LB, replicate 3
Ampicillin, replicate 2
Nirtogen starvation, replicate 1
Heatshock, replicate 1
Nirtogen starvation, replicate 2
Heatshock, replicate 2
Magnesium starvation, replicate 2
H2O2 (0.1mM 30min), replicate 1
Magnesium starvation, replicate 3
H2O2 (0.1mM 30min), replicate 2
Sulphur starvation, replicate 1
position relative to TSS
position relative to TSS

znuCp


Sulphur starvation, replicate 2
Xylose, replicate 2
Sodium Salicytate (induction), replicate 1
Glutamic acid (pH 2.5), replicate 1
Sodium Salicytate (induction), replicate 2
Glutamic acid (pH 2.5), replicate 2
Ampicillin (induction), replicate 1
Leucine (10mM), replicate 1
Ampicillin (induction), replicate 2
Leucine (10mM), replicate 2
Ethanol (induction), replicate 2
2pH (HCl), replicate 2
Ethanol (induction), replicate 3
2pH (HCl), replicate 3
Xylose, replicate 1
Medium Cold shock 19C, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

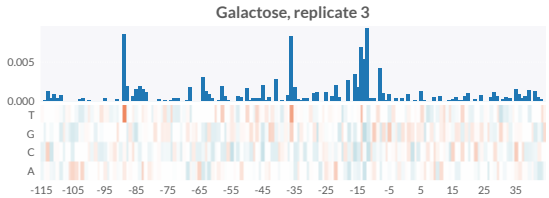
znuCp

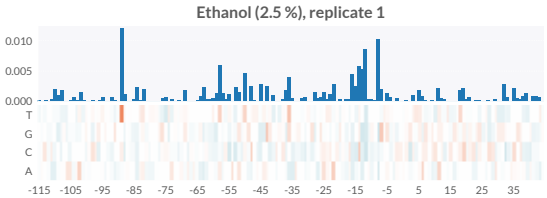

Medium Cold shock 19C, replicate 2
Gentamicin, replicate 2
2,2-Dipyridyl, replicate 1
Arabinose, replicate 1
2,2-Dipyridyl, replicate 2
Arabinose, replicate 2
Phenazine Methosulfate, replicate 1
Copper Sulfate (500µM), replicate 1
Phenazine Methosulfate, replicate 3
Copper Sulfate (500µM), replicate 2
H2O2 (2.5mM, 10min), replicate 1
HOCl (4mM), replicate 1
H2O2 (2.5mM, 10min), replicate 2
HOCl (4mM), replicate 3
Gentamicin, replicate 1
Spermidine, replicate 1
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

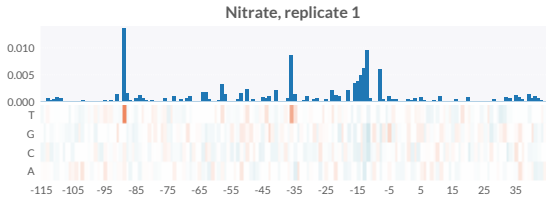
znuCp

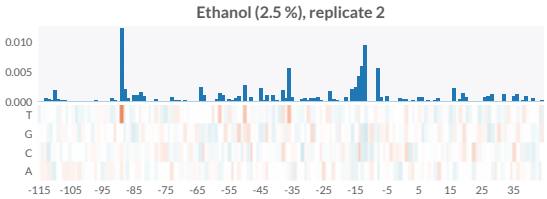

Spermidine, replicate 2
LB + 0.75M NaCl, replicate 2
Serine Hydroxamate, replicate 1
Low Phosphate, replicate 1
Serine Hydroxamate, replicate 2
Low Phosphate, replicate 2
Anaerobic, replicate 1
Copper Sulfate (2mM), replicate 1
Anaerobic, replicate 2
Copper Sulfate (2mM), replicate 3
Low Osmolarity, replicate 1
Acetate, replicate 1
Low Osmolarity, replicate 2
Acetate, replicate 2
LB + 0.75M NaCl, replicate 1
Galactose, replicate 2
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS

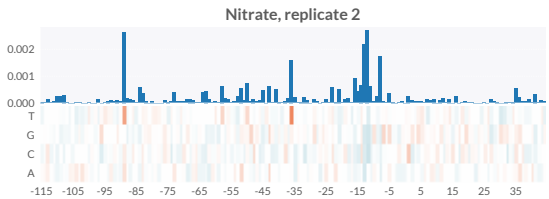
znuCp

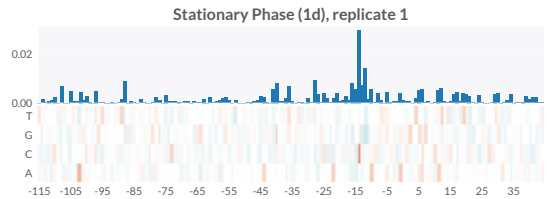

Galactose, replicate 3
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

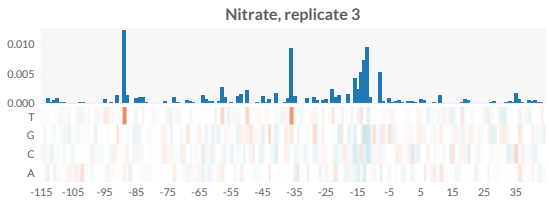

Ethanol (2.5 %), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

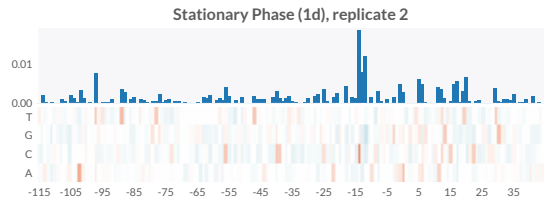

Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

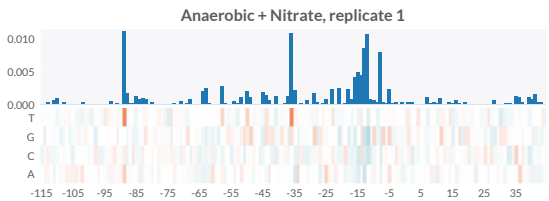

Ethanol (2.5 %), replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

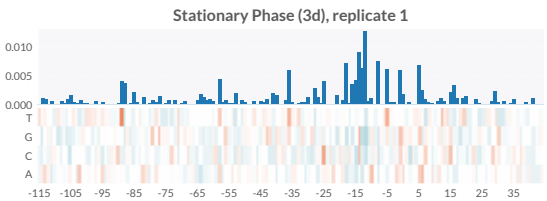

Nitrate, replicate 2
0.002
0.001
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

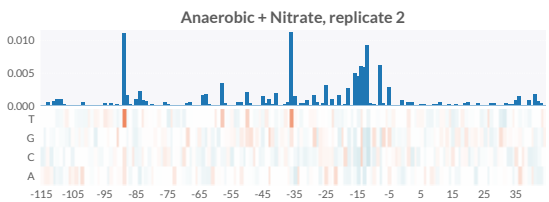

Stationary Phase (1d), replicate 1
0.02
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

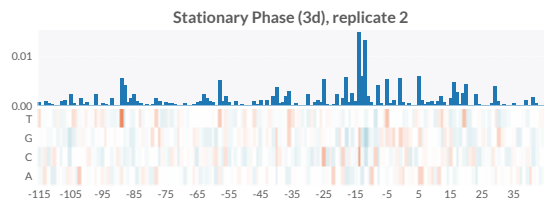

Nitrate, replicate 3
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

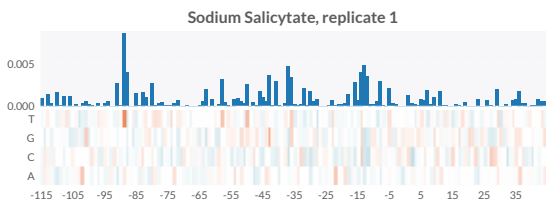

Stationary Phase (1d), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

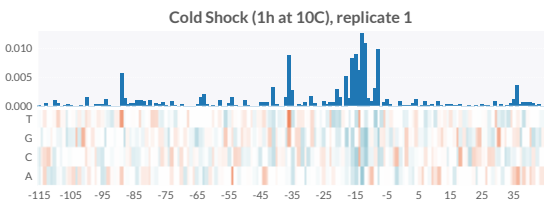

Anaerobic + Nitrate, replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

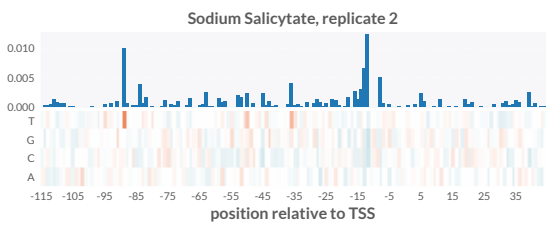

Stationary Phase (3d), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35

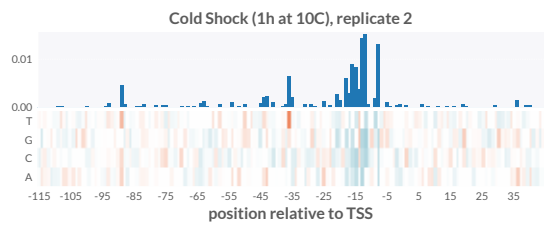

Anaerobic + Nitrate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Stationary Phase (3d), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Sodium Salicytate, replicate 1
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Cold Shock (1h at 10C), replicate 1
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35


Sodium Salicytate, replicate 2
0.010
0.005
0.000
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS


Cold Shock (1h at 10C), replicate 2
0.01
0.00
T
G
C
A
-115 -105 -95 -85 -75 -65 -55 -45 -35 -25 -15 -5 5 15 25 35
position relative to TSS