mutraal info [bits] - 0.0000 -	Glucose -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	0.0004 - 0.0003 - 0.0002 - 0.0001 - 0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
0.0003 - 0.0002 - 0.0001 - 0.0000 -	xylose -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    10.0010 -   10.0005 -   10.0000 -   10
mutnal info [bits] - 0.0000 - 0.0000 -	Arabinose  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    10
mrtnal jub ( ) [pits]   0.0006 - 0.0004 - 0.0002 - 0.00000 - 0.0000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.00000000	Galactose  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	0.00015 - 0.00005 - 0.00005 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
0.0020 - 0.0015 - 0.0010 - 0.0005 - 0.0000 -	Sodium Salicytate  Sodium Salicytate  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    5
0.000015 - 0.000005 - 0.000000 -	position relative to TSS  Ethanol (2.5 %)	position relative to TSS    1
mntnal julo [pits] - 0.0005 - 0.0000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Stationary Phase (1d)	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS     51
0.00020 - 0.00015 - 0.00005 - 0.00000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Stationary Phase (3d)	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS   0.0003 - 0.0002 - 0.0001 - 0.0000 -
mntral = 0.0008 - 0.0006 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.00000000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Cold Shock (1h at 10C)	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS   [5] 8.0×10 <sup>-5</sup> - 6.0×10 <sup>-5</sup> - 4.0×10 <sup>-5</sup> - 2.0×10 <sup>-5</sup> - 0 -
0.00020 - 0.00015 - 0.00005 - 0.00000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Ampicillin  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS     \$\frac{1}{10} \text{ 0.00010} - \frac{1}{10-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40} \text{ 10 20 30 40}
0.00020 - 0.00015 - 0.00005 - 0.00000 -	Position relative to TSS  Heatshock  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS  8.0×10 <sup>-5</sup> - 4.0×10 <sup>-5</sup> - 2.0×10 <sup>-5</sup> - 0 - 10-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
0.0004 - 0.0003 - 0.0002 - 0.0001 - 0.0000 -	position relative to TSS  H2O2 (0.1mM 30min)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    10 100 - 90 - 80 - 70 - 60 - 50 - 40 - 30 - 20 - 10
0.00020 - 0.00015 - 0.00005 - 0.00000 -	position relative to TSS  LB  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    10   10   20   30   40   40   30   20   10   0   10   20   30   40   40   40   40   40   40   4
mutnal julo 0.0015 - 0.0005 - 0.0000 -	position relative to TSS  Nirtogen starvation  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    10
0.0006 - 0.0005 - 0.0004 - 0.0003 - 0.0002 - 0.0001 - 0.0000 -	position relative to TSS  Magnesium starvation  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    51
mrtral info 0.0015 - 0.0005 - 0.0000 -	position relative to TSS  Sulphur starvation  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    50,0004 -   0,0003 -   0,0002 -   0,0001 -   0,0000 -   -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
- 0.003 - untral info [bits] - 0.000 - 0.000 -	position relative to TSS  Sodium Salicytate (induction)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	0.00050 - 0.00025 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
0.00015 - 0.00000 - 0.00000 - 0.00000 - 0.00000	position relative to TSS  Ampicillin (induction)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    30,00015 -   0,000010 -   0,000005 -   0,000000 -   -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10   0   10   20   30   40
[5] 0.0003 - 0.0002 - 0.0001 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.00000000	Ethanol (induction)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	0.0002 - 0.0001 - 0.0000 - 0.0
0.0015 - 0.0015 - 0.0000 - 0.0000 -	position relative to TSS  Glutamic acid (pH 2.5)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    50.006 -   0.005 -   0.004 -   0.003 -   0.002 -   0.001 -   0.000 -
0.0003 - 0.0002 - 0.0001 - 0.0000 -	Leucine (10mM)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS  [\$\frac{\sqrt{2}}{\sqrt{2}}} 0.00015 - \\ 0.000005 - \\ 0.000000 - \\ -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
mntnal info [bits] - 0.000 -	position relative to TSS  2pH (HCl)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    3
0.00010 - ontrol	position relative to TSS  Medium Cold shock 19C  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	position relative to TSS    50
- 0.004 - 0.003 - 0.002 - 0.002 - 0.000 - 0.000 -	2,2-Dipyridyl  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	0.0004 - 0.0003 - 0.0002 - 0.0001 - 0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
mntral 0.0006 - 0.0006 - 0.0005 - 0.0003 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.000000 - 0.00000000	Phenazine Methosulfate  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	9 0.00020 - 0.00015 - 0.00005 - 0.00005 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
0.0003 - - 20000 - - 10000 - - 0.0000 -	H2O2 (2.5mM, 10min)	0.0006 - id 0.0005 - 0.0004 - iu 0.0003 - len 0.0002 - 0.0001 - 0.00000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000000
0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.00000000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Gentamicin	$-110 - 100 - 90 - 80 - 70 - 60 - 50 - 40 - 30 - 20 - 10 0 10 20 30 40$ position relative to TSS $ \frac{50}{9} = 4.0 \times 10^{-5} - 4.0 \times 10^{-5} - 2.0 \times 10^{-5} - 4.0 \times 10^{-5} $
0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.00000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Copper Sulfate (500μM)	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS     30
mutral info [bits] - 0.000000 - 0.000000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  HOCI (4mM)	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS     State
0.0006 - 0.0005 - 0.0004 - 0.0003 - 0.0002 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.0000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.00000000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Spermidine	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  0.00015 - 0.00005 - 0.00005 - 0.000000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.00000 - 0.000000 - 0.00000 - 0.000000 - 0.00000 - 0.00000 - 0.0000000 - 0.000
0.000015 - 0.00010 - 0.00005 - 0.000000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Serine Hydroxamate	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  0.0003 - 0.0002 - 0.0001 - 0.0000 -
0.00020 - 0.00015 - 0.00005 - 0.00000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Anaerobic	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS     51
0.0008 - 0.0006 - 0.0004 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Low Osmolarity	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  0.00020 - 0.00015 - 0.00005 - 0.00005 - 0.000000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.00000 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.
mntral info 0.0003 - 0.0002 - 0.0001 - 0.0000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  LB + 0.75M NaCl	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  0.00015 - 0.00005 - 0.00005 - 0.00000 -
mntral info [pits] - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.00000000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Low Phosphate	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  0.00010 - 0.00005 - 0.000000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.0000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.00000000
0.0020 - 0.0015 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.00000000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Copper Sulfate (2mM)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  0.00020 - 0.00015 - 0.00005 - 0.00005 - 0.00005 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
mutral info [bits] - 0.0000 - 0.0000 - 0.0000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Acetate	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS     51
0.00020 - 0.00015 - 0.000010 - 0.00005 - 0.00000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Nitrate	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  0.00010 - 0.00005 - 0.000000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.00000 - 0.000000 - 0.000000 - 0.000000 - 0.00000 - 0.000000 - 0.0000000 - 0.0
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