mutnal info [bits] - 0.0000 - 0.0000 -	Glucose -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	30.0004 - 0.0003 - 0.0002 - 0.0001 - 0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
mutral info [bits] 0.0000 - 0.0000 -	xylose  -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 -	Arabinose  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    30,0004 - 0,0003 - 0,0002 - 0,0001 - 0,0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
mutral info [bits] - 2000.0 - 00000	Galactose  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    10.00015 -   0.00010 -   0.00005 -   0.00000 -   -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10   0   10   20   30   40
mutnal info [bits] - 0.0000 -	Sodium Salicytate  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    50,0004 -
mntnal info [bits] - 0.000015 - 0.00000 -	Ethanol (2.5 %)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    30,0003 -   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 iufo [pits] 0.002 - 0.000 - 0.000 -	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    \$\frac{\sqrt{2}}{\sqrt{0}} \cdot 0.0006 - \\ \frac{\sqrt{2}}{\sqrt{0}} \cdot 0.0005 - \\ \frac{\sqrt{2}}{\sqrt{0}} \cdot 0.0004 - \\ \frac{\sqrt{2}}{\sqrt{0}} \cdot 0.0002 - \\ \frac{\sqrt{2}}{\sqrt{0}} \cdot 0.0001 - \\ \frac{\sqrt{2}}{\sqrt{0}} \cdot 0.0000 - \\ \frac{\sqrt{2}}{\sqrt{2}} \cdot 0.0000 - \\ \frac{\sqrt{2}}{\sqrt{2}} \cdot 0.000
mutraal info [bits] 0.0004 - 0.0000 -	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    10,0006 -   10,0004 -   10,0000 -   10
mntral julo [pits] 0.0008 - 0.0006 - 0.0002 - 0.0000 -	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	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 - 0.00000 - 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 - 0.00000 - 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 - 0.00000000
mutnal info [bits] - 0.0000 -	Ampicillin  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    19
mutnal info [bits] - 0.0000 -	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  0.00010 - 0.00005 - 0.000000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.00000000
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	0.00050 - 0.00025 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
mutnal info [bits] - 0.0000 -	LB -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	0.00010 - 0.00005 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
mrtag 0.0020 - 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	position relative to TSS    50,0004 - 0,0003 - 0,0002 - 0,0001 - 0,0000 - 0
mntral 0.0006 - 0.0005 - 0.0004 - 0.0000 - 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 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 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 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.000000 - 0.000000 - 0.00000000	Magnesium starvation  -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 - 0.0
matrag 0.0020 - 0.0015 - 0.0005 - 0.0000 -	Sulphur starvation  -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 - 0.0000 - 0.0
mutnal info [bits] - 0.000 -	Sodium Salicytate (induction)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	0.0008 - 0.0006 - 0.0004 - 0.0002 - 0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
mutual info [bits] - 0.00000 - 0.000000 -	Ampicillin (induction)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	0.00015 - 0.00005 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
mutual info [bits] - 0.0000 -	Ethanol (induction)  -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 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
- 0.0000 - 0.0000 - 0.0000 - 0.0000	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	0.006 - 0.004 - 0.002 - 0.000
mntral iulo [bits] 0.00020 - 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 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.00000000	Leucine (10mM)  -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 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
mutnal info [bits] - 0.000 -	2pH (HCl)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	0.0005 - 0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
mntual info [bits] 0.00015 - 0.000005 - 0.000000 -	Medium Cold shock 19C  -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 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
0.003 - untnal info 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	0.0000 - 0.0
mntral info [bits] 0.0006 - 0.0000 - 0.0000 - 0.0000 -	Phenazine Methosulfate  -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 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
mutnal info [bits] - 0.0000 - 0.0000 -	H2O2 (2.5mM, 10min)	0.0004 - 0.0002 - 0.0000 - 0.0
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  Gentamicin  -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   0.00010 - 0.00005 - 0.000000 - 0.0000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000
mntnal iulo [pits] 0.004 - 0.003 - 0.000 - 0.000 -	position relative to TSS  Copper Sulfate (500μM)  -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     10
0.00015 - 0.00010 - 0.00005 - 0.00000 -	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    15
mutnal info [bits] - 0.0000 -	Spermidine -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    30
mntnal info [bits] - 0.000015 - 0.000000 - 0.000000 - 0.00000	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    1/2
mutnal info [bits] - 0.0000 -	Anaerobic  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    10
- 8000.0 mntral info [bits] - 8000.0 mntral info [bits] - 2000.0 - 0.0000 -	Low Osmolarity  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    19
mutnal info [bits] - 0.0005 - 0.0000 -	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  [\$\frac{1}{250} \ 0.00015 - \\ 0.00005 - \\ 0.00000 - \\ -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 \ 0 \ 10 \ 20 \ 30 \ 40
mntnal info [bits] - 0.000015 - 0.000000 -	Dosition 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    50,00020 - 0,00015 - 0,00005 - 0,000000 - 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 - 0,00000 - 0,00000 - 0,00000 - 0,00000 - 0,00000 - 0,000000 - 0,000000 - 0,000000 - 0,000000 - 0,000000 - 0,000000 - 0,00000
mutnal info [bits] - 0.000 -	position relative to TSS  Copper Sulfate (2mM)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    19
0.0015 - 0.0010 - 0.0005 - 0.0000 -	Acetate  Acetate  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    50
0.00020 - 10 0.00015 - 10 0.00010 - 10 0.00005 - 10 0.00000 -	Nitrate  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 - 0.000000 - 0.0000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0
[st] 0.00020 - 0.00015 - 0.00010 - 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 + Nitrate  -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   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 - 110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40