0.000010 - 0.000005 - 0.000000 -	Glucose -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 - 0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
mntnal info 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	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
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	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
mutraal julo [pits] 0.0004 - 0.0003 - 0.0002 - 0.00001 - 0.00000 -	Galactose  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	0.00020 - 0.00015 - 0.00010 - 0.00005 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
0.00050 - 0.00025 - 0.00000 -	Sodium Salicytate  -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
[stig] 0.00020 - 0.00015 - 0.00000 - 0.00000 -	Ethanol (2.5 %)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	0.00015 - 0.00010 - 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 -	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    3
0.0010 - 0.0005 - 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  0.0004 - 0.0002 - 0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
0.0004 - 0.0003 - 0.0002 - 0.0001 - 0.0000 -	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	position relative to TSS    3.0×10 <sup>-5</sup> -   2.0×10 <sup>-5</sup> -   1.0×10 <sup>-5</sup> -   0 -   -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40   position relative to TSS
mntral info (bits) 0.00015 - 0.00005 - 0.00000 -	Ampicillin  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	55 6.0×10 <sup>-5</sup> - 4.0×10 <sup>-5</sup> - 2.0×10 <sup>-5</sup> - 0110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
0.00020 - 0.00015 - 0.00010 - 0.00005 - 0.00000 -	Heatshock -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	\$\frac{\frac
[5] 0.00020 - 0.00015 - 0.00005 - 0.00000 -	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    30,0004 -   0,0003 -   0,0002 -   0,0001 -   0,0000 -   -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10   0   10   20   30   40
0.0003 - 0.0002 - 0.00001 - 0.00000 -	LB  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 - 0.000000 - 0.000000 - 0.0000000 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.000000 - 0.00000000
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mntnal julo 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	0.0003 - 0.0002 - 0.0001 - 0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
0.0015 - 0.0010 - 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    Star
0.0020 - 0.0015 - 0.0005 - 0.0000 -	position relative to TSS  Sodium Salicytate (induction)  -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
[5 0.00020 - 0.00015 - 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 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.00000000	Ampicillin (induction)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    50.00010 -
[s] 0.00020 - 0.00015 - 0.00010 - 0.00005 - 0.00000 -	Ethanol (induction)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    State   0.00015 - 0.000010 - 0.00005 - 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 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.000000 -
0.0008 - 0.0006 - 0.0004 - 0.0002 - 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    30
0.00020 - 0.00015 - 0.00010 - 0.00005 - 0.00000 -	Leucine (10mM)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	position relative to TSS    10
mntnal info [bits] - 0.000 - 0.000 -	2pH (HCl)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	0.00050 - 0.00025 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
0.000010 - 0.00005 - 0.00000 - 0.00000 -	Medium Cold shock 19C  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	0.0002 - 0.0001 - 0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
mutnal info [bits] - 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	0.00015 - 0.00005 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
0.00050 - 0.00025 - 0.00000 -	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
0.000000 - 0.000000 -	H2O2 (2.5mM, 10min)	0.0006 - 0.0005 - 0.0004 - 0.0003 - 0.0002 - 0.0001 - 0.00001 - 0.0000 - 0.
0.00000 - mntnal info [bits] 0.00000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 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
0.0000 - untral info [bits] 0.000 - 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    3  0.0003 - 0.0002 - 0.0001 - 0.0000 - 0.00
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0.00000 - mntral julo [pits] 0.0003 - 0.0000 - 0.0001 - 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 - 0.0000000 - 0.00000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 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  Spermidine	0.00000110-100-90 -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 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.000000 - 0.00000 -
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0.00000 - 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 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.000000 - 0.00000 - 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  Low Osmolarity	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
0.0000 - 0.0003 - 0.0002 - 0.00001 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 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  LB + 0.75M NaCl	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS   0.00020 - 0.00015 - 0.00005 - 0.00005 - 0.000000 - 0.0000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000
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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 - 0.000000 - 0.00000 - 0.00000 - 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  Copper Sulfate (2mM)	0110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  [§] 0.00010 - 0.00005 - 0.000000 - 0.00000 - 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 - 0.00000 - 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 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.
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mutaal info [bits] 0.000010 - 0.000005 - 0.000000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Nitrate	0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS    Signature   0.00015 - 0.00005 - 0.00005 - 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 - 0.00000
tral into [bits] - 0.00015 - 0.00005 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Anaerobic + Nitrate	$-110-100-90-80-70-60-50-40-30-20-10=0=10=20=30=40$ position relative to TSS $\frac{51}{100} = \frac{8.0\times10^{-5}}{6.0\times10^{-5}} = \frac{6.0\times10^{-5}}{4.0\times10^{-5}} = \frac{4.0\times10^{-5}}{2.0\times10^{-5}} = 1000000000000000000000000000000000000$
0.000015 - 1.00   0.000015 - 1.00   0.000005 - 1.000000 - 1.000000 - 1.000000 - 1.000000 - 1.000000 - 1.000000 - 1.000000 - 1.000000 - 1.000000 - 1.000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.00000000 - 1.00000000 - 1.00000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.00000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.00000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.00000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.00000000 - 1.0000000 - 1.0000000 - 1.00000000 - 1.0000000 - 1.00000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.0000000 - 1.00000000 - 1.00000000 - 1.00000000 - 1.00000000 - 1.00000000 - 1.000000000 - 1.00000000 - 1.0000000000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	\$\frac{\sqrt{50}}{\sqrt{60}} \frac{\sqrt{6.0}\times{10^{-5}}}{\sqrt{4.0}\times{10^{-5}}} \\ \frac{\sqrt{4.0}\times{10^{-5}}}{0} \\ \frac{\sqrt{2.0}\times{10^{-5}}}{0} \\ \frac{\sqrt{10^{-100}}}{\sqrt{90}} \\ \frac{\sqrt{8.0}\times{10^{-5}}}{0} \\ \frac{\sqrt{10^{-100}}}{\sqrt{90}} \\ \frac{\sqrt{8.0}\times{10^{-5}}}{\sqrt{10^{-5}}} \\ \frac{\sqrt{10^{-100}}}{\sqrt{90}} \\ \frac{\sqrt{8.0}\times{10^{-5}}}{0} \\ \frac{\sqrt{10^{-100}}}{\sqrt{90}} \\ \text{position relative to TSS}