mutraal iuto [pits] 0.003 - 0.002 - 0.000 -	Glucose -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	[st] 0.004 - 0.003 - 0.002 - 0.001 - 0.000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
mntnal info [bits] - 0.0050 - 0.0000 -	Xylose -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS 10
mntnal into [pits] 0.004 - 0.003 - 0.000 - 0.000 -	Arabinose	position relative to TSS 1
montral info [bits] - 800.00 - 0.000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Galactose	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Still 0.006 - 0.004 - 0.002 - 0.000 - 0
mntral julo [pits] 0.004 - 0.003 - 0.0000 - 0.000 - 0.	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Sodium Salicytate	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Ethanol (2.5 %)	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS [5] 0.003 - 0.002 - 0.001 - 0.000
nutual info [bits] - 500'0 	-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 30
0.000 - 0.000	-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 [\$\frac{1}{10} \text{ 0.006} - \frac{1}{10} \text{ 0.004} - \frac{1}{10} \text{ 0.002} - \frac{1}{10} \text{ 0.000} - \frac{1}{10} \tex
0.000 - 0.000	-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 Signature O.000 - O.00
0.000 - 0.004 - 0.002 - 0.000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Ampicillin	0.000
mntnal info [bits] - 0.000 - 0	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Heatshock	0.000 110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS 10
0.000 - 0.003 - 0.002 - 0.000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS H2O2 (0.1mM 30min)	0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS \$\frac{1}{10} \cdot 0.004 - \frac{1}{10} \cdot 0.002 - \frac{1}{10} \cdot 0.001 - \frac{1}{10} \cdot 0.000 -
0.001 - 0.000 - 0.000 - 0.006 - 0.006 - 0.002 - 0.000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS LB	0.000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS State O.0050 - O.0025 - O.0000 -
0.002 - 0.000 - 0.000 - 0.006 - 0.004 - 0.002 - 0.000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Nirtogen starvation	0.0000 110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
0.004 0.002 - 0.000 - 0.0000 - 0.0015 - 0.0000 - 0.0000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Magnesium starvation	10.002
0.0005 - 0.0000 - 0.0004 - 0.0002 - 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 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Sulphur starvation	0.001 - 0.000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS 0.0020 - 0.0015 - 0.0005 - 0.0005 - 0.0000 - 0.0005 - 0.0000 -
	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Sodium Salicytate (induction)	0.0005 - 0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
Jo [pits] 0.006 - 0.004 - 0.000 - 0.000 - 0.003 - 0.00	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 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
o.004 - 0.003 - 0.002 - 0.001 - 0.000 - 0.000 - 0.004	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Ethanol (induction)	0.002 - 0.001 - 0.000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
[bits] mutnal info [bits] - 0.004 - 0.000 - 0.000 - 0.000 - 0.000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Glutamic acid (pH 2.5)	0.002 - 0.000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
mutal info [bits] 0.008 - 0.004 - 0.002 - 0.000 - 0.0020	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Leucine (10mM)	0.015 - 0.005 - 0.000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
pits] 0.0020 - 0.0015 - 0.0010 - 0.0005 - 0.0000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS 2pH (HCl)	9.0015 - 0.0010 - 0.0005 - 0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
_ 0.005 - - 0.000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Medium Cold shock 19C	0.0025 - 0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
- 400.00	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS 2,2-Dipyridyl	0.003 -
mntnal julo 0.006 - 0.004 - 0.002 - 0.000 - 0.000 - 0.003 - 0.	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Phenazine Methosulfate	0.0006 - 0.0005 - 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
0.003 - 0.002 - 0.001 - 0.000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	0.0015 - 0.0015 - 0.0005 - 0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
[signature] 0.0020 - 0.0015 - 0.0005 - 0.0000 -	H2O2 (2.5mM, 10min) -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	0.002 - 0.001 - 0.000
mutnal info [bits] - 0.000 - 0.000 -	Gentamicin -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	0.002 - 0.001 - 0.000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
- 0.000 - 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	position relative to TSS \$\frac{9}{10} \\ 0.006 - \\ 0.005 - \\ 0.003 - \\ 0.0001 - \\
mntnal iufo [bits] - 0.00015 - 0.00005 - 0.00000 -	HOCI (4mM) -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS State 0.004 - 0.003 - 0.002 - 0.000 - 0.
mutral info [bits] - 0.002 - 0.000 -	Spermidine -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS 50.004 - 0.003 - 0.002 - 0.001 - 0.000 - 0
mutral info [bits] - 0.0005 - 0.0000 -	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 10 10 20 30 40 40 50 50 50 50 50 5
0.003 - 0.002 - 0.001 - 0.000 -	Anaerobic Anaerobic -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 - 100 - 90 - 80 - 70 - 80 - 30 - 20 - 10 0 10 20 30 40
[si 0.004 - 0.003 - 0.002 - 0.001 - 0.000 -	position relative to TSS Low Osmolarity	position relative to TSS [stignoscope 0.004 - 0.003 - 0.002 - 0.001 - 0.000
mutnal info [bits] - 0.000 -	-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 0.0015 - 0.0005 - 0.0005 - 0.0000 -
mntnal juto [pits] - 0.000 - 0.000 -	-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 Signature O.004 - O.003 - O.002 - O.0001
0.000 - 0.000	-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 position relative to TSS [\$\frac{9}{10006} = \frac{0.006}{0.005} = \frac{0.000}{0.0004} = \frac{1}{100000} = \frac{0.000}{0.0001} = \frac{0.000}{0.0001} = \frac{0.000}{0.0000} = \frac{0.000}{0.00000} = \frac{0.000}{0.0000} = \frac{0.000}{
0.000 - 0.000	-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 Signature O.006 - O.004 - O.002 - O.000 -
0.000 - 0.000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Nitrate	0.000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS [\$\frac{1}{10}\$] 0.004 - 0.002 - 0.000 - 0
0.001 - 0.000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS Anaerobic + Nitrate	0.000
- 0.002 - urtna - 0.000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS	0.001 - 0.000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS