mutual 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
mutual 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    1
0.0006 - 0.0005 - 0.0004 - 0.0003 - 0.0002 - 0.0001 - 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 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.00000000	Arabinose  ———————————————————————————————————	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
0.0004 - 0.0002 - 0.0000 - 0.0000	Galactose  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    10.00015 -   0.000010 -   0.00005 -   0.00000 -   -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10   0   10   20   30   40
mutral info [bits] - 0.0000 - 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 -
mrtnal info [bits]	Ethanol (2.5 %)  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    51
mutaal info [bits] 0.003 - 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    50,0006 -   0,0005 -   0,0004 -   0,0003 -   0,0002 -   0,0001 -   0,0000 -   0,00
mutral 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    St
0.0008 - 0.0006 - 0.0004 - 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	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 - 0.0000000 - 0.0000000 - 0.000000 - 0.000000 -
0.0002 - 0.0001 - 0.0000 -	position relative to TSS  Ampicillin  -110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40	position relative to TSS    State   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 - 0.0000000 - 0.0000000 - 0.000000 - 0.0000000 - 0.000000 - 0.000000 -
0.0002 - 0.0001 - 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    10   10   20   30   40   40   40   40   40   40   4
0.0003 - untral info [bits] 0.0002 - 0.0001 - 0.0000 -	position relative to TSS  H2O2 (0.1mM 30min)	position relative to TSS  0.00050 - 0.00025 - 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 - 0.0000000 - 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 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.00000000
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	-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 - 0.00000 - 0.000000 - 0.00000 - 0.00000 - 0.0000000 - 0.000
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  Nirtogen starvation	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
0.0006 - 0.0005 - 0.0004 - 0.0003 - 0.0002 - 0.00000 - 0.0000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.0000000 - 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 - 0.00000000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 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     31
mntral info [pits] - 0.00000 - 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  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 -
mutnal info [bits] - 0.000 - 0.000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 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  0.0008 - 0.0006 - 0.0004 - 0.0002 - 0.0000 -
mutnal info [bits] - 0.00000 - 0.00000 -	-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   0.00015 - 0.00005 - 0.00005 - 0.00000 -
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  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 - 0.000000 - 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 - 0.0000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.00000000
0.0010 - 0.0005 - 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  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 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Leucine (10mM)	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS    30
mrtaal info [bits] 0.000 -	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  2pH (HCl)  -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   9
mutral info [bits] 0.00015 - 0.000005 - 0.000000 -	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    10 100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
mutaal 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    State   0.0003 - 0.0002 - 0.0000 - 0.0
0.0008 - 0.0006 - 0.0004 - 0.0002 - 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 - 0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40
	position relative to TSS	position relative to TSS
mutual info [bits] - 0.0000 - 0.0000 -	H2O2 (2.5mM, 10min)	0.0004 - 0.0002 - 0.0000 - 0.0
mrtnal info [bits] 0.0000 - 0.00010 - 0.00005 - 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 - 0.000000 - 0.000000 - 0.0000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.0000000 - 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 - 0.000000 - 0.000000 - 0.000000 - 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	0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
0.00003 - 0.0000 - 0.	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Copper Sulfate (500μM)	0.00000
0.0001 - 0.00015 - 0.000010 - 0.000005 - 0.0000000 - 0.00000000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  HOCI (4mM)	0.00000
0.00000 - 0.0004 - 0.0002 - 0.0000 - 0.0000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Spermidine	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 - 0.0000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.000000 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.000000 - 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  Serine Hydroxamate	0.0000
0.00000 - 0.00000 - 0.00001 - 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 - 0.000000 - 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 - 0.000000 - 0.000000 - 0.000000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.0000000 - 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	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Anaerobic	0.0000
0.0000 - 0.0000 - 0.0004 - 0.0002 - 0.00000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 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  Low Osmolarity	0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
0.0002 - 0.0000 - 0.0004 - 0.0002 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 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 - 0.000000 - 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 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.0000000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 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  LB + 0.75M NaCl	0.00000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  [still of the content of the con
0.0000 - 0.00005 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.00000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.000000 - 0.0000000 - 0.0000000 - 0.0000000 - 0.0000000 - 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 - 0.00000000	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Low Phosphate	0.00000
0.00005 - 0.00000 - 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  Copper Sulfate (2mM)	0.00000
0.000 - 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  Acetate	0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS    State   0.0008 - 0.0006 - 0.0004 - 0.0002 - 0.0000 -
0.0005 - 0.0000 - 0.00005 - 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 - 0.00000 - 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 - 0.000000 - 0.000000 - 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  Nitrate	0.0002 - 0.0000110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS
	-110-100-90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 position relative to TSS  Anaerobic + Nitrate	$ \frac{1}{10000000000000000000000000000000000$
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	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