

Multiplex generation, tracking, and functional screening of substitution mutants using a CRISPR/retron system

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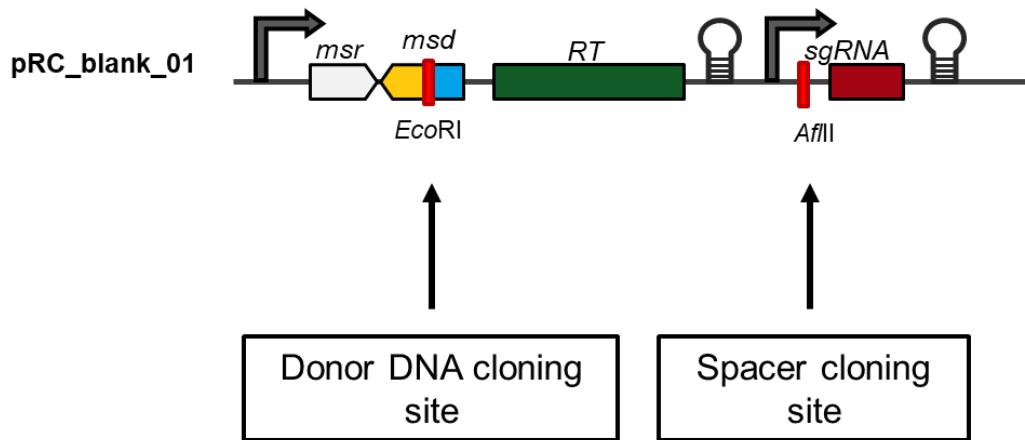
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(a)



(b)

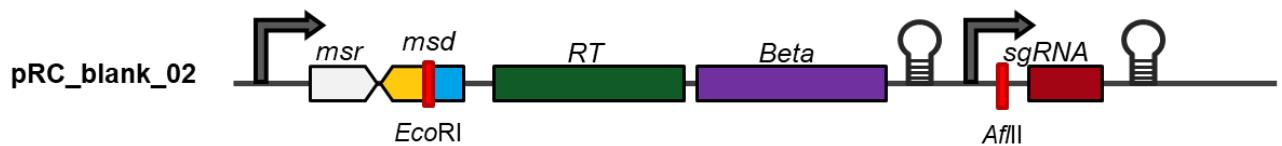


Figure S1 | Design of the CRISPR/retron cassette used in this study. (a) Cloning site of the pRC_blank_01 plasmid. An *Eco*RI site was inserted into the *msd* sequence for cloning donor DNA, and an *Af*III site was inserted into the *sgRNA* sequence for cloning spacer sequences. (b) The gene encoding Beta recombinase was inserted downstream of the reverse transcriptase gene (*RT*), yielding pRC_blank_02.

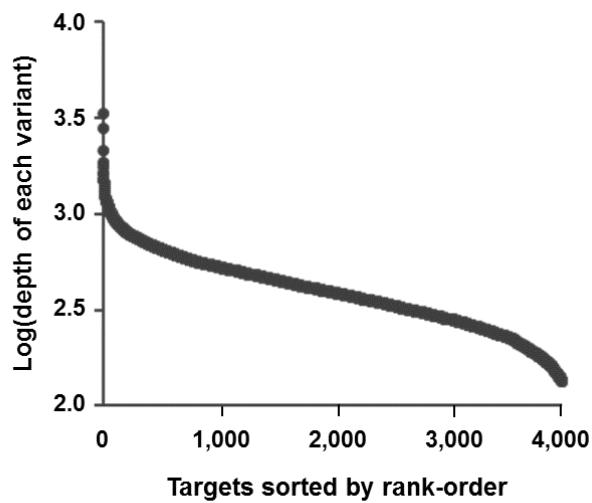


Figure S2 | Plasmid analysis of the degenerate library. Distribution of each degenerate base sequence (N6) at plasmid construction.

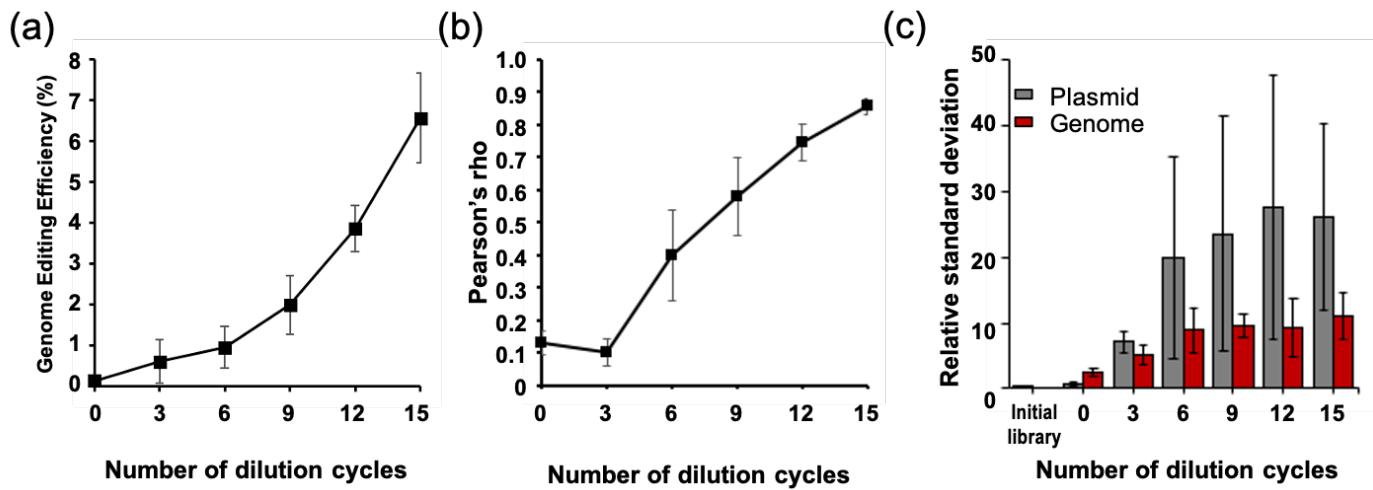


Figure S3 | Results of the degenerate sequence experiment. (a) Genome editing efficiency, (b) correlation coefficient, and (c) bias of each degenerate sequence with increasing number of dilution cycles. Bias was determined as relative standard deviation. Each graph was plotted based on two independent experiments, and all error bars indicate standard deviation.

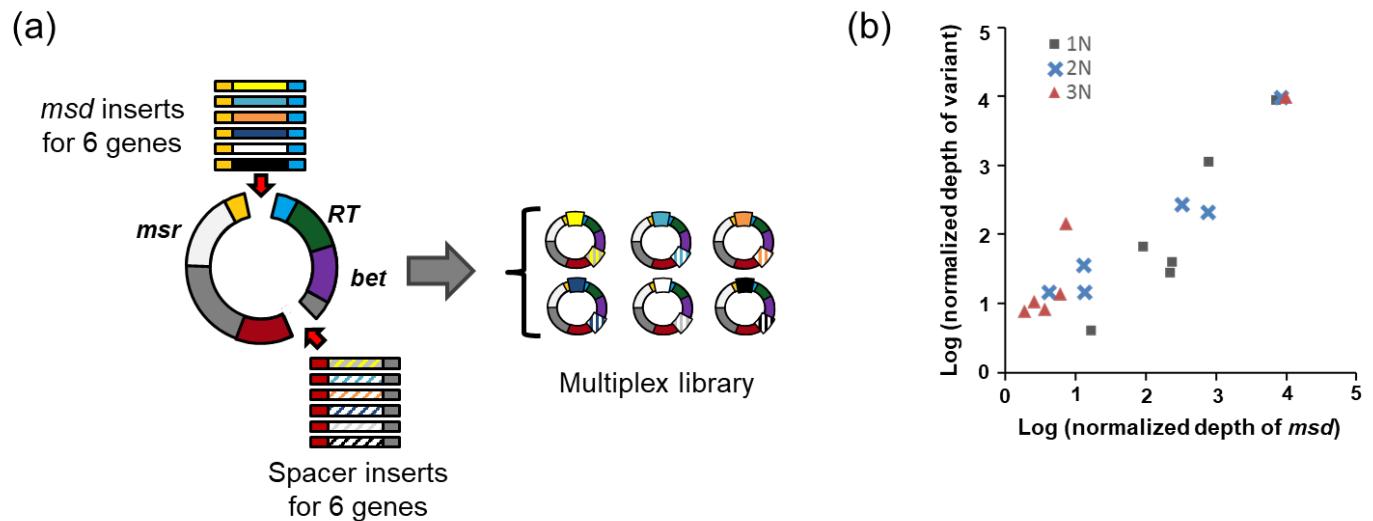


Figure S4 | Multiplex engineering experiment protocol and results. (a) Schematic illustration of the procedure for multiplex library generation targeting six genes in the *E. coli* genome. The *msd* and matched spacer inserts were cloned individually and subsequently mixed to construct the multiplex library. (b) Correlation of *msd* and variant depth (Pearson correlation coefficient [ρ]=0.96, n=3). Squares, crosses, and triangles denote n=1, n=2, and n=3, respectively.

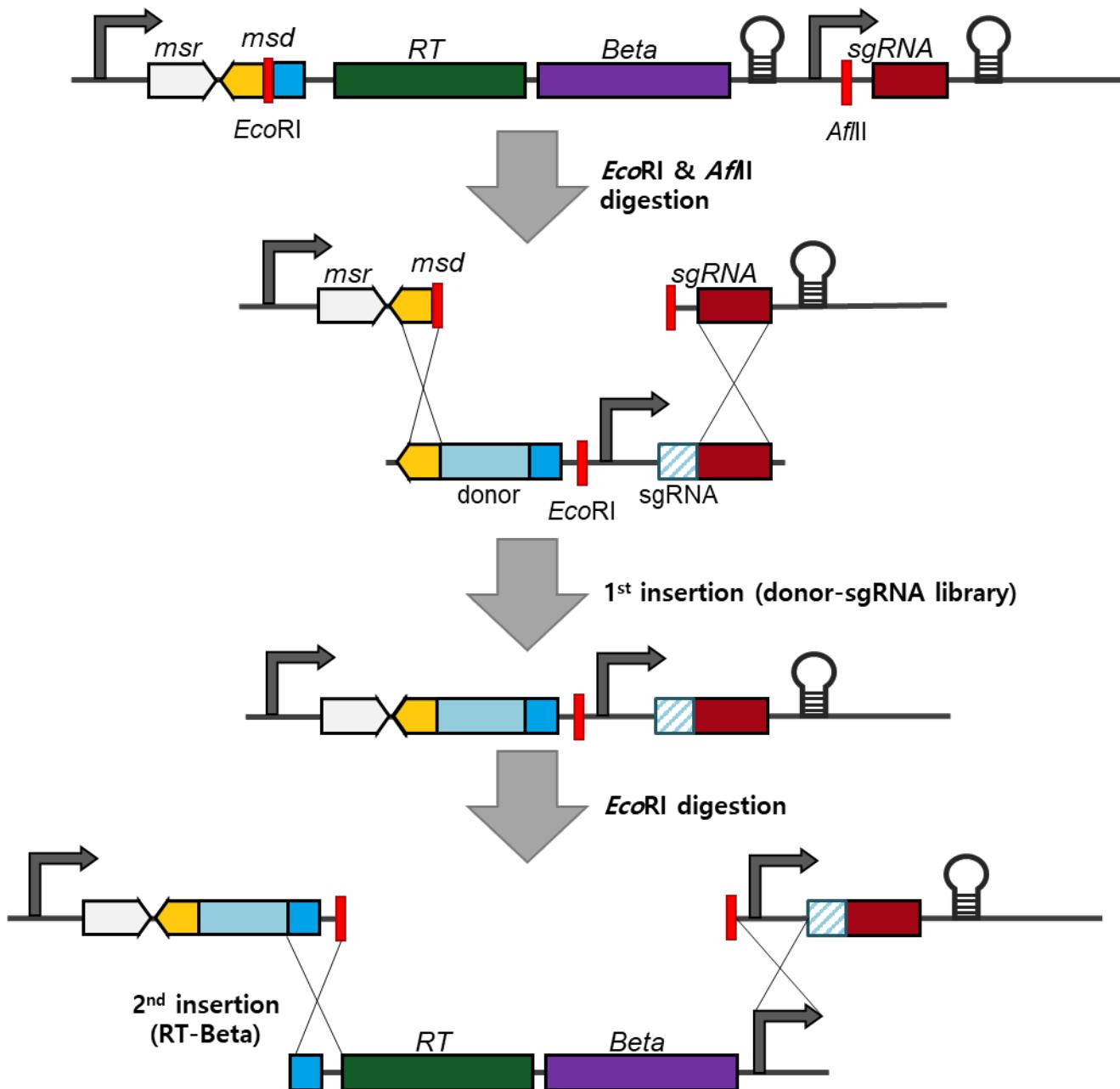


Figure S5 | Schematic illustration of the strategy used for construction of the genome-scale library. The plasmid library was constructed by following two steps: (1) first insertion: library insertion into *EcoRI*- and *Af/II*- digested pRC_blank_02; (2) second insertion: insertion of RT-beta fragment into the *EcoRI*-digested plasmid produced in the first insertion.

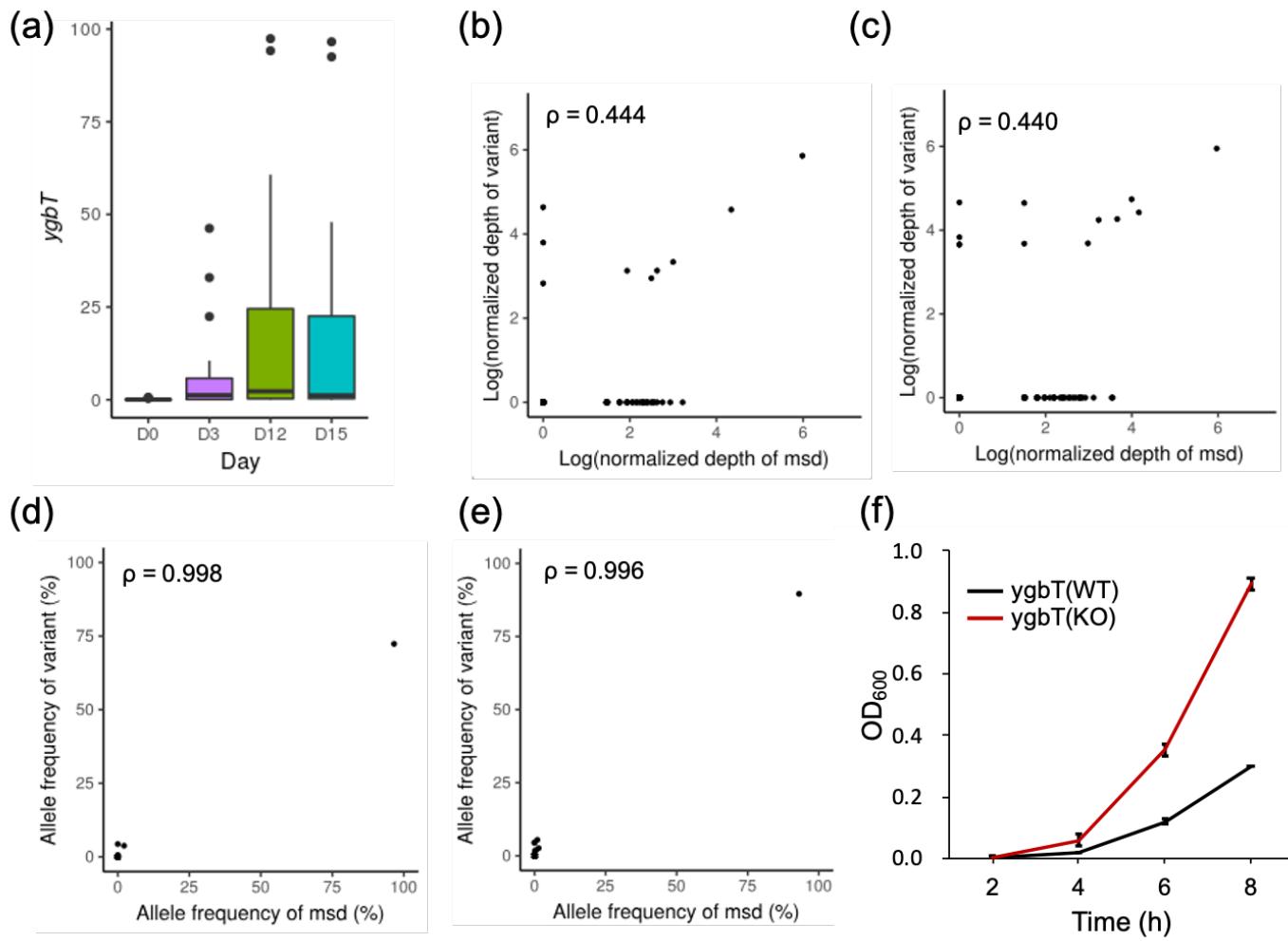


Figure S6 | Results of the genome-scale experiment. (a) Abundance of *ygbT* at Day 0, 3, 12, and 15. The center line corresponds to the median; the edges of the box correspond to the first and third quartiles; the whiskers represent 1.5× the interquartile range; and the black dots indicate outliers. (b-e) Correlation of *msd* and variant depth was analyzed from randomly picked replicates: replicate 3 (b, d) and replicate 10 (c, e). Normalized depth was used for (b, c) and allele frequency was used for (d, e). Rho (ρ) denotes Pearson's correlation coefficient. (f) Growth curves of cells bearing *ygbT*-targeting plasmid (red) or control plasmid (pRC_blank_02) (black). Each graph was plotted based on three independent experiments, and error bars indicate standard error of the mean.

Supplementary Table 1 | List of the parts and sequences used in the study.

Part	Sequence
<i>msr</i>	ATGCGCACCCCTAGCGAGAGGTTATCATTAAGGTCAACCTCTGGATGTTG TTCGGCATCCTGCATTGAATCTGAGTTACT
<i>msd</i> in pRC_blank_01 and 02 (GAATTTC = EcoRI recognition site)	GTCAGAAAAAACGGGTTCCCTGAATT <u>CAGGAAAACAGACAGTAAC</u> TAGA
<i>RT</i>	ATGAAATCCGCTGAATATTGAACACTTTAGATTGAGAAATCTCGGCCTAC CTGTCATGAACAATTGCATGACATGTCTAAGGCAGTCGCATATCTGTTG AAACACTTCGGTGTAACTATACAGCTGATTTCGCTATAGGATCTACAC TGTAGAAAAGAAAGGCCAGAGAAGAGAATGAGAACCAATTACCAACCTTC TCGAGAACCTAAAGCCTTACAAGGATGGTTCTACGTAACATTAGATAAA CTGTCGTATCTCCTTTCTATTGGATTGAAAAGCACCATTCTATTGAA ATAATGCTACCCCGCATATTGGGGCAAACTTACTGAATATTGATTGGA GGATTTTCCCAGTTAACTGCTAACAAAGTTTGAGTGTTCCATTCT CTTGGTTATAATCGACTAATATCTCAGTTGACAAAAATATGTTGTTATAA AAATCTGCTACCAAGGTGCTCCATCATCACCTAAATTAGCTAATCTAATA TGTCTAAACTGATTATCGTATTCAAGGTTATGCAGGTAGTCGGGGCTTG ATATATACGAGATATGCCGATGATCTCACCTTATCTGCACAGTCTATGAAA AGGTTGTTAAAGCACGTGATTTTATTTCTATAATCCAAAGTGAAGGATT GGTTATTAACTAAAAAAACTGTATTAGTGGCCTCGTAGTCAGAGGAA AGTTACAGGTTAGTTTTACAAGAGAAAGTTGGGATAGGTAGAGAAAA ATATAAAGAAATTAGAGCAAAGATACTCATATATTGCGGTAAAGTCTTCT GAGATAGAACACGTTAGGGATGGTTGTCAATTATTTAAGTGTGGATTCA AAAAGCCATAGGAGATTAATAACTTATATTAGCAAATTAGAAAAAAATATG GAAAGAACCCCTTAAATAAGCGAAGACCTAA
<i>Bet</i>	ATGAGTACTGCACTCGCAACGCTGGCTGGGAAGCTGGCTGAACGTGTCG GCATGGATTCTGTCGACCCACAGGAACGTGATCACCACTCTCGCCAGACG GCATTTAAAGGTGATGCCAGCGATGCCAGTTATCGCATTACTGATCGTT GCCAACCAAGTACGGCCTTAATCCGTGGACGAAAGAAATTACGCCCTTCCT GATAAGCAGAATGGCATCGTCCGGTGGTGGCGTTGATGGCTGGTCCC GCATCATCAATAAAACCAGCAGTTGATGGCATGGACTTGGAGCAGGACA ATGAATCCTGTACATGCCGGATTACCGCAAGGACCGTAATCATCCGATCT GCGTTACCGAATGGATGGATGAATGCCCGCGAACCAATTCAAAACTCGC GAAGGCAGAGAAATCACGGGGCGTGGCAGTCGCATCCAAACGGATGT TACGTATAAAGCCATGATTCACTGTCAGTGTGCCGTCTGGCCTCGGATTGCTG GTATCTATGACAAGGATGAAGCCGAGCGCATTGTCGAAAATACTGCATACA CTGCAGAACGTCAGCCGGAACGCGACATCACTCCGGTTAACGATGAAACC ATGCAGGAGATAACACTCTGCTGATGCCCTGGATAAAACATGGGATGA CGACTTATTGCCGCTGTTCCAGATATTGCCCGACATTGTCATC GTCAGAACTGACACAGGCCGAAGCAGTAAAGCTCTGGATTCTGAAAC AGAAAGCCGAGAGCAGAAGGTGGCAGCATGA
sgRNA in pRC_blank_01 and 02 (CTTAAG = AflII recognition site)	TAATACGACTCA <u>CTTAAG</u> TTAAATAAGGCTAGTCGTTATCAACTGAAAA AGTGGCACCGAGTCGGTGCTTTTTT
RT-beta insert for genome-scale library	ATGAAATCCGCTGAATATTGAACACTTTAGATTGAGAAATCTCGGCCTAC CTGTCATGAACAATTGCATGACATGTCTAAGGCAGTCGCATATCTGTTG AAACACTTCGGTGTAACTATACAGCTGATTTCGCTATAGGATCTACAC TGTAGAAAAGAAAGGCCAGAGAAGAGAATGAGAACCAATTACCAACCTTC TCGAGAACCTAAAGCCTTACAAGGATGGTTCTACGTAACATTAGATAAA CTGTCGTATCTCCTTTCTATTGGATTGAAAAGCACCATTCTATTGAA ATAATGCTACCCCGCATATTGGGGCAAACTTACTGAATATTGATTGGA GGATTTTCCCAGTTAACTGCTAACAAAGTTTGAGTGTTCCATTCT CTTGGTTATAATCGACTAATATCTCAGTTGACAAAAATATGTTGTTATAA AAATCTGCTACCAAGGTGCTCCATCATCACCTAAATTAGCTAATCTAATA TGTCTAAACTGATTATCGTATTCAAGGTTATGCAGGTAGTCGGGGCTTG ATATATACGAGATATGCCGATGATCTCACCTTATCTGCACAGTCTATGAAA

	AGTTGTTAAAGCACGTATTTCTATAATCCCAAGTGAAGGATT GGTTATTAACACTAAAAAAACTTGTATTAGTGGGCCTCGTAGTCAGAGGAA AGTTACAGGTTAGTTACAAGAGAAAGTTGGGATAGGTAGAGAAAA ATATAAAGAAATTAGAGCAAAGATACTCATATATTTGCCGTAAGTCTTCT GAGATAGAACACGTTAGGGATGGTGCATTATTTAAGTGTGGATTCA AAAAGCCATAGGAGATTAATAACTTATTAGCAAATTAGAAAAAAATATG GAAAGAACCCTTAAATAAGCGAACCTAA
galK_off	ATGAGTCTGAAAGAAAAACACAATCTCTGTTGCCAACGCATTTGGCTAC CCTGCCACTCACACCATTCAAGCGCCTGGCCCGGTGAATTGATTGGTGA ACACACCGACTACAACGACGGTTCTGTTCTGCCCTGCGCGATTGATTATCA AACCCTGATCAGTTGCACCACCGATGACCGTAAAGTTGGCTGATGG CAGCCGATTATGAAAATCAGCTGACGAGTTCCCTGATGCGCCCATTTG TCGCACATGAAAATCTCAATGGGCTAACTACGTTCTGGCGTGGTGAAC ATCTGCAACTGCGTAACAACAGCTTCGGCGCGTGGACATGGTATCAGC GGCAATGTGCCCGCAGGGTGCCTGGTTAAGTCTTCCGCTTACTGGAAGT CGCGGTGCGAACCGTATTGCAGCAGCTTAACATCTGCCGCTGGACGGCG CACAAATCGCGCTAACGGTCAGGAAGCAGAAAACCAGTTGAGGCTGT AACTGCGGGATCATGGATCAGCTAATTCGCGCTGGCAAGAAAGATCA TGCCTTGCTGATCGATTGCCGCTCACTGGGACCAAAGCAGTTCCATGC CCAAAGGTGTGGCTGTCGTATCATCAACAGTAACCTCAAACGTACCCCTGG TTGGCAGCGAACACACCCGTCGTGAACAGTGCAGAACCGGTGCGCGT TTCTTCAGCAGCCAGCCCTGCGTGTGATGTCACCATTGAAGAGTTCAACGCT GTTGCGCATGAACCTGGACCCGATCGTGGCAAAACGCGTGCATATACT GACTGAAAACGCCGCACCGTTGAAGCTGCCAGCGCGCTGGAGCAAGGC GACCTGAAACGTATGGCGAGTTGATGGCGAGTCTCATGCCCTATGCG CGATGATTCGAAATCACCCTGCCGCAAATTGACACTCTGGTAGAAATCGT CAAAGCTGTGATTGGCGACAAAGGTGGCGTACGCATGACCGGCGCGG TTGGCGGCTGTATCGTCGCGCTGATCCCGGAAGAGCTGGTGCCTGCCGT ACAGCAAGCTGCGCTGAACAATATGAAGCAAAACAGGTATTAAAGAGAC TTTTACGTTGAAACCACATCACAGGAGCAGGACAGTGTGA
cat_off	ATGGAGAAAAAAACTGGATATACCACCGTTGATATATCCCAATGGCAT CGTAAAGAACATTGAGGCATTCACTGAGTTGCTTAATGTACCTATAACC AGACCGTTAGCTGGATATTACGGCTTTAAAGACCGTAAAGAAAAATA AGCACAAGTTATCCGGCTTTATTCACTTCTGCCCGCTGATGAATG CTCATCCGAATTCTGATGGCAATGAAAGACGGTGAGCTGGTATGG GATAGTGTTCACCCCTGTTACACCGTTCCATGAGCAAACACTGAAACGTTT CATCGCTCTGGAGTGAATACCACGACGATTCCGGCAGTTCTACACATAT ATTGCAAGATGTGGCGTGTACGGTAAAAACCTGGCTATTCCCTAAAG GGTTTATTGAGAATATGTTTCTGCTCAGCCAATCCCTGGGTGAGTTCA CCAGTTTGATTAAACGTGGCCAATATGGACAACCTCTCGCCCCCGTT TCACCATGGGCAAATTACGCAAGGGGACAAGGTGCTGATGCCGCTG GCGATTCAAGGTTCATCATGCCGCTGTGATGGCTCCATGTCGGCAGAAT GCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGCGTAA

Supplementary Table 2 | List of plasmids used in the study.

Name	Description
pN249	Common plasmid encoding T7 polymerase
pCas9_T7	<i>E. coli</i> -codon optimized Cas9 was cloned into pET-28a plasmid
pRC_blank_01	The retron-Ec86 amplified from BL21 derivative C2566 and spacer of cloning site consisting T7 promoter, scaffold and Tphi terminator were cloned into pTWIN1 vector
pRC_blank_02	ORF of beta recombinase gene was cloned into downstream of the reverse transcriptase of in the pRC_blank_01
pRC_galK_on	Spacer and 75 bp of msd targeting <i>galK</i> were cloned into pRC_blank_01
pRC_galK_55	Spacer and 55 bp of msd targeting <i>galK</i> were cloned into pRC_blank_01
pRC_galK_95	Spacer and 95 bp of msd targeting <i>galK</i> were cloned into pRC_blank_01
pRC_galK_115	Spacer and 115 bp of msd targeting <i>galK</i> were cloned into pRC_blank_01
pRC_galK_dRT	The plasmid containing D197A and D198A mutation of the reverse transcriptase was produced by mutagenesis of pRC_galK_on
pRC_galK_msd_only	75 bp of msd targeting <i>galK</i> was cloned into pRC_blank_01
pRC_galK_Gg18	Gg18 spacer targeting <i>galK</i> was cloned into pRC_galK_msd_only
pRC_galK_mis1(mid)	mis1 (mid) spacer targeting <i>galK</i> was cloned into pRC_galK_msd_only
pRC_galK_mis1(left)	mis1 (left) spacer targeting <i>galK</i> was cloned into pRC_galK_msd_only
pRC_galK_mis1(right)	mis1 (right) spacer targeting <i>galK</i> was cloned into pRC_galK_msd_only
pRC_galK_mis2	mis2 spacer targeting <i>galK</i> was cloned into pRC_galK_msd_only
pRC_galK_sg_only	mis1 (mid) spacer targeting <i>galK</i> was cloned into pRC_blank_02
pRC_galK_N6	95 bp of msd containing six degenerate bases and targeting <i>galK</i> was cloned into pRC_galK_sg_only
pRC_apt	mis1 (mid) spacer and 95 bp of msd targeting <i>apt</i> were cloned into pRC_blank_02
pRC_cadA	mis1 (mid) spacer and 95 bp of msd targeting <i>cadA</i> were cloned into pRC_blank_02
pRC_cat	mis1 (mid) spacer and 95 bp of msd targeting <i>cat</i> were cloned into pRC_blank_02
pRC_kefB	mis1 (mid) spacer and 95 bp of msd targeting <i>kefB</i> were cloned into pRC_blank_02
pRC_malK	mis1 (mid) spacer and 95 bp of msd targeting <i>malK</i> were cloned into pRC_blank_02
pRC_rpoB	mis1 (mid) spacer and 95 bp of msd targeting <i>rpoB</i> were cloned into pRC_blank_02
pRC_tolC	mis1 (mid) spacer and 95 bp of msd targeting <i>tolC</i> were cloned into pRC_blank_02

Supplementary Table 3 | List of strain used in the study.

Strain	Description
MG1655	Ancestral strain
EcNR2	MG1655 with Δ mutS::cat and Δ (ybhB-bioAB)::[λ cI857 N(cro-ea59)::tetR-bla].
EcHB3	Derivative of EcNR2. To facilitate transformation of a plasmid with antibiotic resistance genes, cat and bla were inactivated. In addition, galK and malK were inactivated for convenient genome evaluation.
ENC	The strain was constructed by electroporation of pN249 and pCas9_T7 to express T7 polymerase and Cas9
C2566	The strain was used for the high efficiency transformation of the randomized plasmid library (pRC_galK_N6)

Supplementary Table 4 | Engineering efficiency depends on dilution cycle progression.

	Editing efficiency of RT (%)			Editing efficiency of dRT (%)		
	Rep1	Rep2	Rep3	Rep1	Rep2	Rep3
Cycle_0	1.53E-01	2.22E-01	1.62E-01	8.66E-02	9.53E-02	1.30E-01
Cycle_3	2.70E+00	2.45E+00	5.36E-01	3.47E-02	3.44E-01	9.13E-02
Cycle_6	2.93E+00	4.23E-01	1.37E-01	1.98E-02	3.55E-02	1.87E-01
Cycle_9	2.66E+00	4.46E-01	1.22E-01	3.13E-02	2.47E-02	3.55E-02
Cycle_12	3.58E+00	8.36E-01	1.58E-01	1.45E-02	4.91E-03	8.10E-02
Cycle_15	1.04E+01	4.25E+00	2.45E+00	2.78E-02	2.74E-02	3.68E-02

Supplementary Table 5 | Clonal validation of engineered subpopulation in the N6 oligo-based experiment. Genomic loci and the msd region in singly picked colonies were validated by Sanger sequencing. All engineered sequences in the genomic loci were consistent with their msd region.

1N			2N		
	Number of colony	Frequency (%)		Number of colony	Frequency (%)
Total	94		TOTAL	93	
WT	89	94.7	WT	81	87.1
Substituted	5	5.32	Substituted	12	12.9
AAATGT	1	1.06	GGGTCG	5	5.38
GAGACC	1	1.06	CCTAAA	2	2.15
GTAAAA	1	1.06	GGGCGA	2	2.15
GTGACG	1	1.06	CGTGGT	1	1.08
CAGAGA	1	1.06	CTTTAT	1	1.08
			GATCGC	1	1.08
Concordance	5	100%	Concordance	12	100%

Supplementary Table 6 | Target information.

Gene	Protein	Mutation	Number of substitution (including PAM mutation)
<i>galK</i>	Galactokinase	*239I	2
<i>apt</i>	Adenosine phosphoribosyl transferase	L177I	3
<i>cadA</i>	Lysine decarboxylase 1	L717I	3
<i>cat</i>	Chloramphenicol acetyltransferase	*30Q	2
<i>kefB</i>	Glutathione-regulated potassium-efflux system protein	L594I	3
<i>malk</i>	Maltose/maltodextrin import ATP-binding protein	L354I	3
<i>rpoB</i>	β subunit of bacterial RNA polymerase	L1326I	3
<i>tolC</i>	Type I secretion outer membrane protein	L441I	3

Supplementary Table 7 | List of oligos used in the study.

Oligos for construction of msd insert	
for singleplex engineering	
(template oligos)	
galK_donor_template	GCCGGGTTAAGTTCTTCCGCTTCACTGGAAGTCGCGGTGGAACCGTATTGCAGCAGCTTA TCATCTGCCGCTCGACGGCGACAAATCGCGCTAACGGTCAGGAAGCAGAAAACCAGTT
(forward primers)	
galk_55_fwd	TCTGAGTTACTGTCTGTTTCCCTGAAATTGTGCGCCGTCGA
galk_75_fwd	TCTGAGTTACTGTCTGTTTCCCTGAAAGTTAACGCGCATTGTGCGC
galk_95_fwd	TCTGAGTTACTGTCTGTTTCCCTGAACTTCCCTGACCGTTAACGCG
galk_115_fwd	TCTGAGTTACTGTCTGTTTCCCTGAATGGTTCTGCTTCCTGACC
(reverse primers)	
galk_55_rev	GTCAGAAAAACGGGTTCCCTGAACGGTCGGAACCGTATTG
galk_75_rev	GTCAGAAAAACGGGTTCCCTGAACTGGAAGTCGCGGTG
galk_95_rev	GTCAGAAAAACGGGTTCCCTGAATTCCGCTTCACTGGAAGT
galk_115_rev	GTCAGAAAAACGGGTTCCCTGAAGGTTAACGTTCTCCGCTTC
for multiplex engineering	
(template oligos)	
apt_template_1	CATTGAATCTGAGTTACTGTCTGTTTCCCTGAATGTCGATCTCGCGGCGAACAGCGTC
apt_template_2	GAACGGGACGATGCTGTAGCTCGTAATGCCCTGTTTCGAGACGCTGTCGCCGC
apt_template_3	CTACAGCATCGTCCCCTCCCGGCCATTAATTATGCCAGTCTGTGCTGCCAC
apt_template_4	CACCCTTACGTCAAGAAAAACGGGTTCCCTGAATGTCGTAGCGTGGCAGCACAGACT
cadA_template_1	CATTGAATCTGAGTTACTGTCTGTTTCCCTGAAGGGAAGTGGCAAGCCA
cadA_template_2	CAAAAAATAATTAGCTCGTACAAGGGAAGTGGCTGCCACTTCCC
cadA_template_3	CTTGTACGAGCTAATTATTTGCTTCTTCTTGATTACCTAACCGTATAGC
cadA_template_4	TGATTACCTAACCGTATAGCGGCCATCAGCCTGACGGTATGCACCGTGAATATCGGTT
cadA_template_5	CACCCTTACGTCAAGAAAAACGGGTTCCCTGAAAAACCGATATTACGGTGCA
cat_template_1	TCTGAGTTACTGTCTGTTTCCCTGAATTAAAAGGCCGTAAATATCCAGCTAACGGTCTG
cat_template_2	CAGCTGAACGGTCTGGTTACGTACATTGAGCAACTGACTGAAATGCCCTAAAATGTC
cat_template_3	TCAGAAAAACGGGTTCCCTGAACCAATGGCATCGTAAAGAACATTGAGGCATTCAG
kefB_template_1	CATTGAATCTGAGTTACTGTCTGTTTCCCTGAACCCGACGCGAACTGG
kefB_template_2	CGATCTGACGTCGTTCTGTCATTCACGCTGGAAAATCTCTCCAGTTCGCGTCGGG
kefB_template_3	CAAGAACGACGTCAGATCGACGGCTGGGATGAATTGAGTAGAGGGTAAAG
kefB_template_4	GACGGCTGGGATGAATTGAGTAGAGGGTAAAGATGGCAATCCGAAAACGTTTAT
kefB_template_5	CACCCTTACGTCAAGAAAAACGGGTTCCCTGAAATAAACGTTTCGGATTGCCAT
malK_template_1	CATTGAATCTGAGTTACTGTCTGTTTCCCTGAATGTTGGTAGAAGAACGGTGC

malK_template_2	AGATATGACAACGCTCTGGCGCAGGCCGATAGCGAATGTGGCACCTCTTACCAACA
malK_template_3	GCCAGAGCGTTGTCATATCTCCGTGAGGATGGCACT
malK_template_4	TCCGTGAGGATGGCACTGCATGTCGACTGCATAAGGAGGCCGGCGTTAACG
malK_template_5	CACCCTACGT CAGAAAAACGGGTTCTGAAGCTAACGCCGGCT
rpoB_template_1	CATTGAATCTGAGTTACTGTCTGTTCTGAAACATCGTGGACGGCAACCATCAGATGG
rpoB_template_2	ATCTCTTCAAGATTACGTTAACGATTCTGGCATGCCGGCTCCATCTGATGGTGCCG
rpoB_template_3	TTCAACGTAATCTGAAAGAGATTGCTCGCTGGGTATCAACATCGAACTGGAAGACGA
rpoB_template_4	CACCCTACGT CAGAAAAACGGGTTCTGAAGAGAATTACTCGTCTCCAGTCGATG
tolC_template_1	CATTGAATCTGAGTTACTGTCTGTTCTGAATTCTGTTCCGGCGTTG
tolC_template_2	GATCAGCAAACCGTTCCACTAACCGAAAACGTTGCACCGCAAACGCCGGAACAGAA
tolC_template_3	GGAAACGGGTTGCTGATCGCATTGTTAGTGCAGGCCAGC
tolC_template_4	GCATTGTTAGTGCAGCAGATCCTGCTCGTTAACGTACCCAGAGCTGACTTAA
tolC_template_5	CACCCTACGT CAGAAAAACGGGTTCTGAATTAGTCAGCTCTGGGTACG
<i>(forward primers)</i>	
apt_fwd	GAGTTACTGTCTGTTCTGAACGGGGCGAACAGCG
cadA_fwd	GAGTTACTGTCTGTTCTGAAAAGCCACTTCCCTTGTA
cat_fwd	GAGTTACTGTCTGTTCTGAATTA
kefB_fwd	GAGTTACTGTCTGTTCTGAAACTGGAAGAGATTTCC
malK_fwd	GAGTTACTGTCTGTTCTGAAAGAAGGTGCCACATTG
rpoB_fwd	GAGTTACTGTCTGTTCTGAACGGCAACCATCAGATGG
tolC_fwd	GAGTTACTGTCTGTTCTGAAGCGTTGCGGTGCAAC
<i>(reverse primers)</i>	
apt_rev	TCAGAAAAACGGGTTCTGAAGTGGCAGCACAGACT
cadA_rev	TCAGAAAAACGGGTTCTGAATCACGGTGCATACCGTC
cat_rev	TCAGAAAAACGGGTTCTG
kefB_rev	TCAGAAAAACGGGTTCTGAATTGGATTGCCATCTT
malK_rev	TCAGAAAAACGGGTTCTGAACCGGCTCCTATGCAGT
rpoB_rev	TCAGAAAAACGGGTTCTGAACGTCTCCAGTCGATG
tolC_rev	TCAGAAAAACGGGTTCTGAATCTGGGTACGTTGAACG
<i>for degenerate engineering</i>	
<i>(template oligos)</i>	
galK_N6.oligo	TGGTTTCTGCTTCTGACCGTTAACGGCGATTGTGCGCCGTCGANNNNNGATGAT AAAGCTGCTGCAATACGGTCCGACCGCGACTCCAGTGAAGCGGAAGAACTTAACC
<i>(forward primers)</i>	
N6_fwd	CTTCCTGACCGTTAACGCG
N6+homology_fwd	galk_95_fwd
<i>(reverse primers)</i>	
N6_rev	CCAATTGTGTTCCAGCCATCACGGC
N6+homology_rev	galk_95_rev

for <i>ygbT</i> validation	
(template oligos)	
<i>ygbT_template_1</i>	CTGCATTGAATCTGAGTTACTGTCTGTTCTGAACTGGTACACGGGTTCGCATGCAG
<i>ygbT_template_2</i>	CGGGTTTCGCATGCAGCTGTACGGTGCTGCGCAAGTTAACATTGTTGGTATGGGTG
<i>ygbT_template_3</i>	GTTAAAACATTGTTGGTATGGGTGGGGAAAGCGGGCGTCG
<i>ygbT_template_4</i>	CGCACCCCTTACGTACGAAAAACGGGTTCTGAAAGCATAAACACGAACGCCGTTCC
(forward primer)	
<i>ygbT_fwd</i>	CTGCATTGAATCTGAGTTACTGT
(reverse primer)	
<i>ygbT_rev</i>	CGCACCCCTTACGTACG
Oligos for construction of sgRNA insert	
forward primers for singleplex & degenerate engineering	
<i>Gg18_fwd</i>	CTATATTGCAGGAAGGGCTAATACGACTCACTATAGGAGCTTAACATCTGCCGCGTTTAGAGCTAG AAATAGCAAGTAAAATAAGGCTAGTC
<i>Standard_fwd</i>	CTATATTGCAGGAAGGGCTAATACGACTCACTATAGGGCAGCTTAACATCTGCCGCGTTTAGAGC TAGAAATAGCAAGTAAAATAAGGCTAGTC
<i>mis1(mid)_fwd</i>	CTATATTGCAGGAAGGGCTAATACGACTCACTATAGGGCAGCTTATCATCTGCCGCGTTTAGAGC TAGAAATAGCAAGTAAAATAAGGCTAGTC
<i>mis1(left)_fwd</i>	CTATATTGCAGGAAGGGCTAATACGACTCACTATAGGGCAGGTTAACATCTGCCGCGTTTAGAGC TAGAAATAGCAAGTAAAATAAGGCTAGTC
<i>mis1(right)_fw d</i>	CTATATTGCAGGAAGGGCTAATACGACTCACTATAGGGCAGCTTAACATCTCCCGCGTTTAGAGC TAGAAATAGCAAGTAAAATAAGGCTAGTC
<i>mis2_fwd</i>	CTATATTGCAGGAAGGGCTAATACGACTCACTATAGGGCAGCTTATCATCTCCCGCGTTTAGAGC TAGAAATAGCAAGTAAAATAAGGCTAGTC
forward primers for multiplex engineering	
<i>apt_sgRNA_f wd</i>	CTATATTGCAGGAAGGGCTAATACGACTCACTATAGGGAACGGGACTAGGCTAGCGTTTAGAGC TAGAAATAGCAAG
<i>cadA_sgRNA_fwd</i>	CTATATTGCAGGAAGGGCTAATACGACTCACTATAGGTTCTCTTGAATACCTTAAGTTTAGAGC TAGAAATAGCAAG
<i>cat_sgRNA_f d</i>	CTATATTGCAGGAAGGGCTAATACGACTCACTATAGGCAGCTGAACCGTCTGGTTATGTTTAGAGC TAGAAATAGCAAG
<i>kefB_sgRNA_f wd</i>	CTATATTGCAGGAAGGGCTAATACGACTCACTATAGGATTCATCCCTGCCGTCCAGCGTTTAGAGC TAGAAATAGCAAG
<i>malK_sgRNA_fwd</i>	CTATATTGCAGGAAGGGCTAATACGACTCACTATAGGTGCCATCCTGACGGAACAGAGTTTAGAGC TAGAAATAGCAAG
<i>rpoB_sgRNA_fwd</i>	CTATATTGCAGGAAGGGCTAATACGACTCACTATAGGCTCTTCAAGAACAGTTGAGTTAGAGC TAGAAATAGCAAG
<i>tolC_sgRNA_f wd</i>	CTATATTGCAGGAAGGGCTAATACGACTCACTATAGGGAACAATGCCCTGAGCAAACGTTTAGAGC TAGAAATAGCAAG
forward primer for <i>ygbT</i> validation	
<i>ygbT_sgRNA_fwd</i>	CTATATTGCAGGAAGGGCTAATACGACTCACTATAGGGGCTGCGCATATTGGAACATGTTTAGAGC TAGAAATAGCAAG
common reverse primer	
<i>sgRNA_scaffol_d_rev</i>	GACTAGCCTTATTAACTTGCTATTCTAGCTCTAAAAC
MAGE oligos for construction of EcHB3 strain	
<i>chip_fwd</i>	GAGTTACTGTCTGTTCTG
<i>chip_rev</i>	CTTGCTATTCTAGCTCTAAAAC
<i>chip_2nd_rev</i>	GGCATCCTGCATTGAATCTGAGTTACTGTCTGTTCTG
<i>chip_2nd_rev</i>	TTCAAGTGATAACGGACTAGCCTTATTAACTTGCTATTCTAGCTCTAAAAC
MAGE oligos for construction of EcHB3 strain	
<i>cat_mut_oligo</i>	G*C*A*T*CGTAAAGAACATTGAGGCATTTCAGTCAGTTGCTTAATGTACCTATAACCAGACCGTT CAGCTGGATATTACGGCCTTTAAA

bla_mut_oligo	G*C*C*A*CATA GG CAG AACT TAA AAG TG CT CAT CATT GG AAA AC GT TATT AG GGG CG AAA ACT CT CA AGG ATCT ACC GCT GTT GAG AT CC AG
galK_mut45_oligo	G*C*T*T*CACTGGAAAGTCGCGTCGGAACCGTATTGCAGCAGCTTAACATCTGCCGTGGACGGCG CACAAATCGCGCTTAACGGTCAGGAA
malK_mut45_oligo	C*C*A*A*ATGACATGTTCTGCTACTGACAGGTGGGATAGAGCGCTTAAGACTGAAACACCATA CAACGCCGTTCTGCTGGCGAGTG

Oligos for target region amplification

for singleplex & degenerate engineering. Barcode sequence is underlined

NGS_galk_fw_d_1	<u>AACTATCCATGATCCCGCAGTTAC</u>
NGS_galk_fw_d_2	<u>ACGAATCCATGATCCCGCAGTTAC</u>
NGS_galk_fw_d_3	<u>ACTTATCCATGATCCCGCAGTTAC</u>
NGS_galk_fw_d_4	<u>AGTCATCCATGATCCCGCAGTTAC</u>
NGS_galk_fw_d_5	<u>ATGTATCCATGATCCCGCAGTTAC</u>
NGS_galk_fw_d_6	<u>CTGCATCCATGATCCCGCAGTTAC</u>
NGS_galk_fw_d_7	<u>GATTATCCATGATCCCGCAGTTAC</u>
NGS_galk_fw_d_8	<u>GCTGATCCATGATCCCGCAGTTAC</u>
NGS_galk_fw_d_9	<u>GTCCATCCATGATCCCGCAGTTAC</u>
NGS_galk_fw_d_10	<u>TAGCATCCATGATCCCGCAGTTAC</u>
NGS_galk_fw_d_11	<u>TCGAATCCATGATCCCGCAGTTAC</u>
NGS_galk_fw_d_12	<u>TTGCATCCATGATCCCGCAGTTAC</u>
NGS_galk_fw_d_13	<u>CGGTATCCATGATCCCGCAGTTAC</u>
NGS_galk_fw_d_14	<u>CGTTATCCATGATCCCGCAGTTAC</u>
NGS_galk_fw_d_15	<u>CTTAATCCATGATCCCGCAGTTAC</u>
NGS_galk_rev	GGACATGGTGATCAGCGG

for multiplex engineering

apt_fwd	CCGTTAAACTGATCCGTCGT
apt_rev	CTAACACAGCCCCGTCAGA
cadA_fwd	GGAGTCTCTGCAGATGCTGT
cadA_rev	GGGTGTTTCATGTGTTCTCC
cat_fwd	TCGAGATTTCAGGAGCTAAGG
cat_rev	GCCGGATAAAACTTGTGCTT
kefB_fwd	CGAGAGCTCATCCCAATGC
kefB_rev	ACATGCCATTGAATCCTG
malK_fwd	TCCCTCCATTGTCAAAAC
malK_rev	TGACAGGCTTGTGTTTTG
rpoB_fwd	TGAACGGTCGTACCAAGATG
rpoB_rev	CCGTCGGAGTTAGCACAATC
tolC_fwd	TGTACAACGCCAAGCAAGAG
tolC_rev	TATCAGGCGCATAACCATCA

for amplifying msd region

plasmid_fwd	TGGTTTCTGCTTCCTGACC
plasmid_rev	TAAGTTCTCCGCTTCACTGG

Supplementary Table 8 | Calculated fold-change in the chloramphenicol-treatment experiment. One-way ANOVA and Tukey post-hoc analysis were performed based on this data.

	Fold change				
	1N	2N	3N	4N	Mean
<i>cadA</i>	0.118	0.076	0.101	0.090	0.096
<i>apt</i>	0.092	0.053	0.036	0.037	0.054
<i>cat</i>	2.219	2.278	5.094	5.200	3.698
<i>rpoB</i>	0.126	0.097	0.082	0.081	0.097
<i>malK</i>	0.860	0.369	0.181	0.120	0.382
<i>kefB</i>	0.051	0.062	0.083	0.068	0.066
<i>galK</i>	0.193	0.205	0.048	0.011	0.114

Supplementary Table 9 | Results of one-way ANOVA.

ANOVA Table	Sum of squares	df	Mean Square	F	p-value
Between groups	43.82	6	7.30	17.47	3.540E-07 (***)
Within groups	8.78	21	0.42		
Total	52.60	27			

Supplementary Table 10 | Results of Tukey post-hoc analysis.

Group 1	Group 2	Difference of mean between groups	95% confidence interval		Adjusted p-value
			Lower bound	Upper bound	
<i>cat</i>	<i>apt</i>	3.643268763	2.157011	5.129527	1.64E-06
<i>cat</i>	<i>kefB</i>	3.631430218	2.145172	5.117688	1.73E-06
<i>cat</i>	<i>cadA</i>	3.601387062	2.115129	5.087645	1.97E-06
<i>cat</i>	<i>rpoB</i>	3.601220981	2.114963	5.087479	1.97E-06
<i>cat</i>	<i>galK</i>	3.583709473	2.097452	5.069967	2.13E-06
<i>cat</i>	<i>malK</i>	3.315297309	1.829039	4.801555	7.07E-06
<i>malK</i>	<i>apt</i>	0.327971454	-1.158287	1.814229	9.90E-01
<i>malK</i>	<i>kefB</i>	0.316132909	-1.170125	1.802391	9.92E-01
<i>malK</i>	<i>cadA</i>	0.286089753	-1.200168	1.772348	9.95E-01
<i>malK</i>	<i>rpoB</i>	0.285923672	-1.200334	1.772182	9.95E-01
<i>malK</i>	<i>galK</i>	0.268412164	-1.217846	1.75467	9.97E-01
<i>galK</i>	<i>apt</i>	0.059559291	-1.426699	1.545817	1.00E+00
<i>galK</i>	<i>kefB</i>	0.047720745	-1.438537	1.533979	1.00E+00
<i>rpoB</i>	<i>apt</i>	0.042047782	-1.44421	1.528306	1.00E+00
<i>cadA</i>	<i>apt</i>	0.041881702	-1.444376	1.52814	1.00E+00
<i>rpoB</i>	<i>kefB</i>	0.030209237	-1.456049	1.516467	1.00E+00
<i>cadA</i>	<i>kefB</i>	0.030043156	-1.456215	1.516301	1.00E+00
<i>galK</i>	<i>cadA</i>	0.017677589	-1.46858	1.503936	1.00E+00
<i>galK</i>	<i>rpoB</i>	0.017511508	-1.468746	1.503769	1.00E+00
<i>kefB</i>	<i>apt</i>	0.011838546	-1.474419	1.498097	1.00E+00
<i>rpoB</i>	<i>cadA</i>	0.000166081	-1.486092	1.486424	1.00E+00

Supplementary Table 11 | Clonal validation of the engineered subpopulation in the chloramphenicol selection experiment. The cat locus was validated in singly picked colonies by Sanger sequencing.

Supplementary Table 12 | List of oligos used for the genome-scale library.

GAGTTACTGCTGTTCTGATGTCGCGACTGGCGTATGCCAAGATATGTACGTTCTAACGACAAGATGACTACGCGTTAACGGGCA
TCAAAGCGTTGCCAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGGTCCTCAAGGACAAAGATGGTTAGAGCTAGAAATAGCAAG
GAGTTACTGCTGTTCTGATTTCTACGAAAAGCTGCCGGCTGGCGTAAGTACGGTACATAATCATGGGGGGAGTTAGTGCTGGCCATCTCC
AGGGCGTACCGCAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGGTAAGTACCGTACATGGCTTTAGAGCTAGAAATAGCAAG
GAGTTACTGCTGTTCTGGCAGGGCTGACCGCTTGGCGCCATTGCGTTAACGTTAGGGGGTATTGCTGCGATGTGGGAGT
AAGCCTGCTGCCAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGGCCATTGGGTTGGTAGTTAGAGCTAGAAATAGCAAG
GAGTTACTGCTGTTCTGGATGGTTAGTTCACTCAATGCGATTTCACATATTGATCTGCTCAAGTCTCTCAAACGTTGAGTGAGT
CACCTACAACAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGATATTGATGTGCTCAAGTCGTTAGAGCTAGAAATAGCAAG
GAGTTACTGCTGTTCTGATGGTTGGGATTGCGCTGCTGGCTGCATTGATTATTGAAAAATGCCCTCCGCATACGCTGATTATGGT
GGCGGTGGCCAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGTATTATGAAAAATGCCGTTAGAGCTAGAAATAGCAAG
GAGTTACTGCTGTTCTGCAGGCAATGAGCTAGCGCACCAATAAGGAACCCACAATGGCGTAGAAAGCAGCGTACAGTAAATTGCAAGCA
CGATCGGCCAGTTAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGTTCCAGCGCATTGGGTTAGAGCTAGAAATAGCAAG
GAGTTACTGCTGTTCTGTTGGCGCGCAGCGCGTTAACATGCTCAGCCTCGCTAGCATTCAACTAACGTTAGCTGGAAAATCACTCGG
CACGCAGCTTCAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGTCCGCTCAGGATTCAATTAGTTAGAGCTAGAAATAGCAAG
GAGTTACTGCTGTTCTGAGCAATAAACCGGATGCCATAACGGTGGCATCGATTCAAGTCTCGCATGTAACATCGTGGCATAA
ACTATTGCCAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGACTCGATGATATCGATGCCAGTTAGAGCTAGAAATAGCAAG
GAGTTACTGCTGTTCTGCCAGCGGCTTTGCCGTCACATTCCAGGACAAAGCGCCGTCACTCTGATCGTAATGCTTACAGATCA
GAGAGTCAACCAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGTCAAGCGATCGCGCTTGGTTAGAGCTAGAAATAGCAAG
GAGTTACTGCTGTTCTGAGTTGGTCAACGGTCTTCACTCAGGAGAATAGTGACGCTAGCACCTGTTGCTGAATCCTGGGGGATG
TTAAGAATATTCAAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGGGTCCAGGGTCACTATTGTTAGAGCTAGAAATAGCAAG
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CTGACGGCAGAACAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGCAGGATCCCCTTAAGCGTTAGAGCTAGAAATAGCAAG
GAGTTACTGCTGTTCTGCCGGCAGCGATCGTCAGGTTGACGAATCTGCCGGAAACATAACGCTCCCGTCCAATTGACATGCGTGAGC
GTCTGAACGTCGAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGGAAACACATCGCTCCGGTTAGAGCTAGAAATAGCAAG
GAGTTACTGCTGTTCTGGCTGTTGAATTACCTGCCGGTTACGGCGTAATCACGGCAATGAGCAGCAGTGGCTCAGCTGGAAATCCGAGCCT
GTCAGTATGAAGCAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGGGCAACGACCAGCAGTGGCTTAGAGCTAGAAATAGCAA
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TAACGAGCTGGCAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGGACTTACATTATTGCTGGTTAGAGCTAGAAATAGCAAG
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TGTATATGATCCAGGAAACCCGTTTTCTGAATTCTAATACGACTCACTATAGGGCTTAACCAGGTCTGGTGTAGAGCTAGAAATAGCAAG
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GAGTTACTGTCTGTTCCCTGATGCAAAGCAGGAATCAAGCGCAAGCGTCTGATGAACAGCGTAAGATGAAGAACAGCACCTGCTGAAGAAC
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GAGTTACTGTCTGTTCCCTGGATTTCCTCCGGCAATGGGTTCAAGAACAGTTGCAACTGGCTACTGAATACGCCGATGATAGTTGATAACTCA
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GAGTTACTGTCTGTTCCCTGAGGAAACCGTTTCTGAATTCTAACGACTCACTATAGGGCAGCAGCCACTGCACTGTGTTAGAGCTAGAAATAGCAAG
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Supplementary Table 13 | Results of ANOVA for the ordinary least-square model.

Gene	Prob(F-statistic)	p-value	Constant	Coefficient
<i>ygbT</i>	3.437E-03	3.437E-03	1.832E+00	1.232E+00
<i>ybjD</i>	3.271E-02	3.271E-02	2.882E-04	-2.287E-05
<i>recA</i>	3.872E-02	3.872E-02	3.236E-04	-2.568E-05
<i>glnD</i>	3.803E-02	3.803E-02	3.289E-04	-2.611E-05
<i>mrdA</i>	3.803E-02	3.803E-02	3.289E-04	-2.611E-05
<i>ffh</i>	4.046E-02	4.046E-02	3.342E-04	-2.652E-05
<i>yhbW</i>	3.630E-02	3.630E-02	3.493E-04	-2.772E-05
<i>ybhP</i>	3.838E-02	3.838E-02	3.517E-04	-2.792E-05
<i>pncA</i>	3.608E-02	3.608E-02	3.549E-04	-2.817E-05
<i>ydjA</i>	3.711E-02	3.711E-02	3.681E-04	-2.922E-05
<i>ybgP</i>	4.733E-02	4.733E-02	3.738E-04	-2.967E-05
<i>xanQ</i>	4.434E-02	4.434E-02	3.855E-04	-3.059E-05
<i>agai</i>	3.772E-02	3.772E-02	3.912E-04	-3.104E-05
<i>mdfA</i>	4.052E-02	4.052E-02	4.026E-04	-3.195E-05
<i>citG</i>	3.295E-02	3.295E-02	4.147E-04	-3.291E-05
<i>acrB</i>	3.896E-02	3.896E-02	4.147E-04	-3.291E-05
<i>rapA</i>	3.763E-02	3.763E-02	4.150E-04	-3.293E-05
<i>rutE</i>	4.286E-02	4.286E-02	4.174E-04	-3.313E-05
<i>ycjF</i>	4.032E-02	4.032E-02	4.346E-04	-3.449E-05
<i>ftsX</i>	4.647E-02	4.647E-02	4.433E-04	-3.518E-05
<i>ydhB</i>	3.758E-02	3.758E-02	4.436E-04	-3.521E-05
<i>atpA</i>	4.230E-02	4.230E-02	4.476E-04	-3.553E-05
<i>osmF</i>	3.793E-02	3.793E-02	4.603E-04	-3.653E-05
<i>bcsZ</i>	3.155E-02	3.155E-02	4.754E-04	-3.655E-05
<i>frvR</i>	4.458E-02	4.458E-02	4.637E-04	-3.680E-05
<i>wcaH</i>	4.565E-02	4.565E-02	4.676E-04	-3.711E-05
<i>yidZ</i>	2.231E-02	2.231E-02	4.715E-04	-3.742E-05
<i>dcm</i>	3.880E-02	3.880E-02	4.786E-04	-3.798E-05
<i>wzc</i>	3.933E-02	3.933E-02	4.798E-04	-3.808E-05
<i>yniC</i>	1.520E-02	1.520E-02	4.854E-04	-3.853E-05
<i>mcbA</i>	4.554E-02	4.554E-02	4.856E-04	-3.854E-05
<i>cusC</i>	1.350E-02	1.350E-02	4.877E-04	-3.871E-05
<i>ygiM</i>	4.801E-02	4.801E-02	4.913E-04	-3.899E-05
<i>sbmA</i>	3.488E-02	3.488E-02	4.973E-04	-3.947E-05
<i>atoE</i>	3.349E-02	3.349E-02	5.363E-04	-4.256E-05
<i>truA</i>	1.728E-02	1.728E-02	5.449E-04	-4.325E-05
<i>yahL</i>	4.797E-02	4.797E-02	5.553E-04	-4.407E-05
<i>hydN</i>	4.849E-02	4.849E-02	5.556E-04	-4.410E-05
<i>leuB</i>	3.290E-02	3.290E-02	5.580E-04	-4.429E-05

<i>garP</i>	3.779E-02	3.779E-02	5.585E-04	-4.433E-05
<i>usg</i>	2.666E-02	2.666E-02	5.632E-04	-4.470E-05
<i>mrcA</i>	4.973E-02	4.973E-02	5.695E-04	-4.520E-05
<i>ychA</i>	4.768E-02	4.768E-02	5.707E-04	-4.529E-05
<i>ycgR</i>	4.314E-02	4.314E-02	5.751E-04	-4.564E-05
<i>yiiM</i>	5.596E-03	5.596E-03	5.844E-04	-4.638E-05
<i>mrdB</i>	3.662E-02	3.662E-02	5.860E-04	-4.651E-05
<i>fetA</i>	3.924E-02	3.924E-02	5.917E-04	-4.696E-05
<i>paaZ</i>	3.228E-02	3.228E-02	6.355E-04	-4.819E-05
<i>potF</i>	3.325E-02	3.325E-02	6.081E-04	-4.826E-05
<i>yffO</i>	4.749E-02	4.749E-02	6.128E-04	-4.863E-05
<i>sixA</i>	5.744E-03	5.744E-03	6.133E-04	-4.868E-05
<i>ynjE</i>	1.014E-02	1.014E-02	6.263E-04	-4.879E-05
<i>hiuH</i>	2.530E-02	2.530E-02	6.478E-04	-4.989E-05
<i>ahpF</i>	4.329E-02	4.329E-02	6.350E-04	-5.040E-05
<i>kdpD</i>	3.742E-02	3.742E-02	6.370E-04	-5.055E-05
<i>setC</i>	4.163E-02	4.163E-02	6.379E-04	-5.063E-05
<i>mcrC</i>	3.725E-02	3.725E-02	6.535E-04	-5.070E-05
<i>yjcF</i>	4.784E-02	4.784E-02	6.395E-04	-5.075E-05
<i>yiiQ</i>	3.969E-02	3.969E-02	7.069E-04	-5.117E-05
<i>yegS</i>	3.741E-02	3.741E-02	6.447E-04	-5.117E-05
<i>bioB</i>	7.416E-03	7.416E-03	6.912E-04	-5.187E-05
<i>gldA</i>	1.941E-02	1.941E-02	6.666E-04	-5.290E-05
<i>leuO</i>	1.723E-02	1.723E-02	6.666E-04	-5.291E-05
<i>ybhH</i>	2.886E-02	2.886E-02	6.674E-04	-5.297E-05
<i>treF</i>	2.200E-02	2.200E-02	6.827E-04	-5.418E-05
<i>araD</i>	3.890E-02	3.890E-02	6.919E-04	-5.491E-05
<i>murR</i>	2.173E-02	2.173E-02	6.920E-04	-5.492E-05
<i>dld</i>	4.736E-02	4.736E-02	7.011E-04	-5.564E-05
<i>proP</i>	4.714E-02	4.714E-02	7.117E-04	-5.648E-05
<i>fdnG</i>	3.394E-02	3.394E-02	7.140E-04	-5.667E-05
<i>prkB</i>	4.394E-02	4.394E-02	7.190E-04	-5.707E-05
<i>yfbK</i>	3.711E-02	3.711E-02	7.230E-04	-5.738E-05
<i>cdh</i>	4.920E-02	4.920E-02	7.317E-04	-5.807E-05
<i>astA</i>	4.330E-02	4.330E-02	7.367E-04	-5.846E-05
<i>panC</i>	3.753E-02	3.753E-02	7.376E-04	-5.854E-05
<i>yedA</i>	1.947E-02	1.947E-02	7.392E-04	-5.867E-05
<i>fdhD</i>	1.575E-02	1.575E-02	7.400E-04	-5.873E-05
<i>ydgH</i>	4.328E-02	4.328E-02	7.406E-04	-5.878E-05
<i>phnH</i>	3.882E-02	3.882E-02	7.408E-04	-5.880E-05
<i>atpH</i>	1.274E-02	1.274E-02	7.691E-04	-5.922E-05
<i>yciU</i>	2.936E-02	2.936E-02	7.514E-04	-5.963E-05

<i>spy</i>	1.963E-02	1.963E-02	7.614E-04	-6.043E-05
<i>sgcQ</i>	8.369E-03	8.369E-03	7.653E-04	-6.074E-05
<i>hisD</i>	2.267E-02	2.267E-02	8.138E-04	-6.095E-05
<i>btuD</i>	3.554E-02	3.554E-02	7.683E-04	-6.098E-05
<i>mdtH</i>	2.131E-02	2.131E-02	7.725E-04	-6.131E-05
<i>mrcB</i>	2.529E-02	2.529E-02	7.817E-04	-6.204E-05
<i>rluB</i>	4.261E-02	4.261E-02	7.953E-04	-6.312E-05
<i>ybaE</i>	4.339E-02	4.339E-02	7.965E-04	-6.322E-05
<i>xseA</i>	8.355E-03	8.355E-03	8.085E-04	-6.416E-05
<i>gmk</i>	2.863E-02	2.863E-02	8.109E-04	-6.436E-05
<i>yjiY</i>	2.356E-02	2.356E-02	8.123E-04	-6.447E-05
<i>cpsG</i>	1.993E-02	1.993E-02	8.215E-04	-6.520E-05
<i>flhB</i>	2.258E-02	2.258E-02	8.248E-04	-6.546E-05
<i>oppC</i>	4.869E-02	4.869E-02	8.332E-04	-6.612E-05
<i>yjaG</i>	3.311E-02	3.311E-02	8.356E-04	-6.632E-05
<i>zraR</i>	4.368E-02	4.368E-02	8.490E-04	-6.738E-05
<i>ghrA</i>	9.647E-03	9.647E-03	8.550E-04	-6.786E-05
<i>yggF</i>	4.848E-02	4.848E-02	8.707E-04	-6.910E-05
<i>hisA</i>	3.758E-02	3.758E-02	8.758E-04	-6.951E-05
<i>tatD</i>	3.308E-02	3.308E-02	8.836E-04	-7.013E-05
<i>kdpC</i>	2.745E-02	2.745E-02	8.870E-04	-7.040E-05
<i>ybhC</i>	3.111E-02	3.111E-02	8.977E-04	-7.125E-05
<i>intD</i>	2.518E-02	2.518E-02	9.091E-04	-7.215E-05
<i>yceG</i>	3.769E-02	3.769E-02	9.280E-04	-7.365E-05
<i>yqeF</i>	3.503E-02	3.503E-02	9.421E-04	-7.477E-05
<i>amiB</i>	2.649E-02	2.649E-02	9.450E-04	-7.500E-05
<i>yidB</i>	2.837E-02	2.837E-02	9.486E-04	-7.529E-05
<i>gspE</i>	2.610E-02	2.610E-02	1.012E-03	-7.676E-05
<i>ynfH</i>	2.071E-02	2.071E-02	9.823E-04	-7.691E-05
<i>rsmG</i>	2.654E-02	2.654E-02	9.788E-04	-7.768E-05
<i>ydeJ</i>	3.829E-02	3.829E-02	9.818E-04	-7.792E-05
<i>ecpC</i>	3.407E-02	3.407E-02	9.828E-04	-7.800E-05
<i>murl</i>	3.322E-02	3.322E-02	9.891E-04	-7.850E-05
<i>ypeC</i>	1.918E-02	1.918E-02	1.009E-03	-7.861E-05
<i>aroH</i>	4.873E-02	4.873E-02	9.991E-04	-7.929E-05
<i>trmD</i>	7.052E-03	7.052E-03	1.002E-03	-7.955E-05
<i>gspH</i>	2.104E-02	2.104E-02	1.003E-03	-7.963E-05
<i>cbdB</i>	2.207E-02	2.207E-02	1.016E-03	-8.063E-05
<i>lpxD</i>	3.092E-02	3.092E-02	1.022E-03	-8.113E-05
<i>fabI</i>	4.896E-02	4.896E-02	1.024E-03	-8.129E-05
<i>yiaC</i>	4.730E-02	4.730E-02	1.033E-03	-8.197E-05
<i>yhbT</i>	4.364E-02	4.364E-02	1.034E-03	-8.207E-05

<i>elfC</i>	3.894E-02	3.894E-02	1.035E-03	-8.213E-05
<i>creB</i>	9.297E-03	9.297E-03	1.039E-03	-8.246E-05
<i>yddW</i>	4.587E-03	4.587E-03	1.049E-03	-8.328E-05
<i>yaaU</i>	3.225E-02	3.225E-02	1.081E-03	-8.580E-05
<i>hisI</i>	1.890E-02	1.890E-02	1.083E-03	-8.594E-05
<i>rseB</i>	3.893E-02	3.893E-02	1.085E-03	-8.615E-05
<i>ydeR</i>	2.965E-02	2.965E-02	1.089E-03	-8.640E-05
<i>tmcA</i>	2.390E-02	2.390E-02	1.113E-03	-8.679E-05
<i>hofC</i>	2.178E-02	2.178E-02	1.103E-03	-8.753E-05
<i>fhuE</i>	3.368E-02	3.368E-02	1.104E-03	-8.763E-05
<i>uspE</i>	3.726E-02	3.726E-02	1.118E-03	-8.870E-05
<i>pqiA</i>	6.899E-03	6.899E-03	1.118E-03	-8.873E-05
<i>mppA</i>	2.756E-02	2.756E-02	1.154E-03	-8.886E-05
<i>mltC</i>	3.834E-02	3.834E-02	1.147E-03	-9.106E-05
<i>glsA</i>	2.397E-02	2.397E-02	1.154E-03	-9.157E-05
<i>glpK</i>	1.875E-02	1.875E-02	1.163E-03	-9.227E-05
<i>yhjJ</i>	9.635E-03	9.635E-03	1.183E-03	-9.390E-05
<i>crr</i>	3.373E-02	3.373E-02	1.224E-03	-9.717E-05
<i>yehL</i>	3.622E-02	3.622E-02	1.228E-03	-9.745E-05
<i>cyaA</i>	9.142E-03	9.142E-03	1.229E-03	-9.756E-05
<i>ybhJ</i>	1.699E-02	1.699E-02	1.231E-03	-9.770E-05
<i>proA</i>	3.519E-02	3.519E-02	1.231E-03	-9.773E-05
<i>gyrA</i>	2.102E-02	2.102E-02	1.234E-03	-9.790E-05
<i>rspR</i>	1.124E-02	1.124E-02	1.239E-03	-9.836E-05
<i>yoaA</i>	2.363E-02	2.363E-02	1.249E-03	-9.914E-05
<i>astD</i>	8.094E-03	8.094E-03	1.258E-03	-9.983E-05
<i>metG</i>	1.379E-02	1.379E-02	1.259E-03	-9.990E-05
<i>nrdH</i>	1.268E-03	1.268E-03	1.271E-03	-1.008E-04
<i>bioF</i>	2.505E-03	2.505E-03	1.276E-03	-1.013E-04
<i>rspB</i>	4.021E-02	4.021E-02	1.278E-03	-1.014E-04
<i>kefF</i>	1.184E-02	1.184E-02	1.280E-03	-1.016E-04
<i>yjiN</i>	3.375E-02	3.375E-02	1.315E-03	-1.018E-04
<i>ydaN</i>	3.639E-02	3.639E-02	1.298E-03	-1.019E-04
<i>rutA</i>	4.457E-02	4.457E-02	1.287E-03	-1.021E-04
<i>yddA</i>	3.058E-02	3.058E-02	1.289E-03	-1.023E-04
<i>greA</i>	3.831E-02	3.831E-02	1.296E-03	-1.029E-04
<i>acnA</i>	2.239E-02	2.239E-02	1.303E-03	-1.034E-04
<i>prpD</i>	1.667E-03	1.667E-03	1.349E-03	-1.039E-04
<i>yedW</i>	4.519E-02	4.519E-02	1.316E-03	-1.044E-04
<i>gltS</i>	1.471E-02	1.471E-02	1.322E-03	-1.049E-04
<i>nrdA</i>	4.736E-02	4.736E-02	1.322E-03	-1.050E-04
<i>hemF</i>	4.089E-02	4.089E-02	1.329E-03	-1.055E-04

<i>yceH</i>	1.338E-02	1.338E-02	1.339E-03	-1.063E-04
<i>yeeA</i>	2.417E-02	2.417E-02	1.357E-03	-1.077E-04
<i>fliN</i>	1.425E-02	1.425E-02	1.357E-03	-1.077E-04
<i>bioC</i>	1.771E-02	1.771E-02	1.361E-03	-1.080E-04
<i>yahB</i>	3.528E-02	3.528E-02	1.375E-03	-1.082E-04
<i>yqjH</i>	2.390E-02	2.390E-02	1.365E-03	-1.084E-04
<i>malQ</i>	2.637E-02	2.637E-02	1.376E-03	-1.092E-04
<i>frdB</i>	2.399E-02	2.399E-02	1.379E-03	-1.094E-04
<i>arnA</i>	3.051E-02	3.051E-02	1.385E-03	-1.099E-04
<i>nuoH</i>	2.247E-02	2.247E-02	1.406E-03	-1.116E-04
<i>mlc</i>	4.986E-03	4.986E-03	1.412E-03	-1.120E-04
<i>thiC</i>	4.944E-02	4.944E-02	1.414E-03	-1.123E-04
<i>ygfS</i>	7.251E-03	7.251E-03	1.429E-03	-1.134E-04
<i>nanE</i>	2.770E-02	2.770E-02	1.430E-03	-1.135E-04
<i>insK</i>	1.955E-02	1.955E-02	1.435E-03	-1.139E-04
<i>fucA</i>	2.913E-02	2.913E-02	1.441E-03	-1.143E-04
<i>waaF</i>	4.492E-02	4.492E-02	1.441E-03	-1.144E-04
<i>degP</i>	2.109E-02	2.109E-02	1.441E-03	-1.144E-04
<i>ybaO</i>	4.005E-02	4.005E-02	1.442E-03	-1.144E-04
<i>yjhF</i>	1.482E-02	1.482E-02	1.447E-03	-1.148E-04
<i>ypfG</i>	5.464E-03	5.464E-03	1.449E-03	-1.150E-04
<i>elaB</i>	2.576E-02	2.576E-02	1.450E-03	-1.151E-04
<i>yigZ</i>	8.723E-03	8.723E-03	1.464E-03	-1.162E-04
<i>yebS</i>	1.754E-02	1.754E-02	1.471E-03	-1.168E-04
<i>pheP</i>	1.848E-02	1.848E-02	1.516E-03	-1.172E-04
<i>cysG</i>	3.041E-02	3.041E-02	1.477E-03	-1.172E-04
<i>nhaA</i>	2.800E-02	2.800E-02	1.485E-03	-1.179E-04
<i>gyrB</i>	4.168E-02	4.168E-02	1.486E-03	-1.180E-04
<i>yehI</i>	1.060E-02	1.060E-02	1.525E-03	-1.192E-04
<i>hyaD</i>	2.552E-02	2.552E-02	1.515E-03	-1.193E-04
<i>YPD-E</i>	1.036E-02	1.036E-02	1.506E-03	-1.195E-04
<i>kch</i>	2.819E-02	2.819E-02	1.508E-03	-1.197E-04
<i>ftsA</i>	2.439E-02	2.439E-02	1.512E-03	-1.200E-04
<i>ygfZ</i>	4.849E-03	4.849E-03	1.527E-03	-1.212E-04
<i>proX</i>	3.263E-02	3.263E-02	1.529E-03	-1.214E-04
<i>talA</i>	1.217E-02	1.217E-02	1.537E-03	-1.220E-04
<i>pstA</i>	9.241E-04	9.241E-04	1.550E-03	-1.230E-04
<i>eutC</i>	3.841E-02	3.841E-02	1.551E-03	-1.231E-04
<i>dtpA</i>	4.196E-02	4.196E-02	1.556E-03	-1.235E-04
<i>wcaL</i>	8.085E-03	8.085E-03	1.559E-03	-1.238E-04
<i>yecC</i>	8.347E-03	8.347E-03	1.560E-03	-1.238E-04
<i>ydhY</i>	1.038E-02	1.038E-02	1.607E-03	-1.244E-04

<i>glpC</i>	1.386E-02	1.386E-02	1.575E-03	-1.250E-04
<i>cmk</i>	8.683E-03	8.683E-03	1.584E-03	-1.258E-04
<i>hemE</i>	1.120E-02	1.120E-02	1.592E-03	-1.264E-04
<i>rffG</i>	3.783E-02	3.783E-02	1.598E-03	-1.268E-04
<i>acrE</i>	4.096E-02	4.096E-02	1.599E-03	-1.269E-04
<i>treB</i>	2.165E-02	2.165E-02	1.604E-03	-1.273E-04
<i>lpd</i>	4.724E-02	4.724E-02	1.604E-03	-1.273E-04
<i>ydhP</i>	2.230E-02	2.230E-02	1.604E-03	-1.273E-04
<i>pldA</i>	1.633E-02	1.633E-02	1.631E-03	-1.274E-04
<i>glmU</i>	1.746E-02	1.746E-02	1.615E-03	-1.282E-04
<i>mlaA</i>	1.062E-02	1.062E-02	1.616E-03	-1.283E-04
<i>gsiC</i>	1.789E-02	1.789E-02	1.620E-03	-1.285E-04
<i>yicH</i>	3.783E-02	3.783E-02	1.622E-03	-1.287E-04
<i>lolE</i>	1.030E-02	1.030E-02	1.644E-03	-1.305E-04
<i>selA</i>	1.161E-02	1.161E-02	1.645E-03	-1.305E-04
<i>mngA</i>	2.461E-03	2.461E-03	1.668E-03	-1.306E-04
<i>rssA</i>	1.925E-02	1.925E-02	1.653E-03	-1.312E-04
<i>yehS</i>	4.985E-02	4.985E-02	1.662E-03	-1.319E-04
<i>sslE</i>	4.292E-02	4.292E-02	1.663E-03	-1.320E-04
<i>ytjB</i>	6.813E-03	6.813E-03	1.673E-03	-1.328E-04
<i>bamD</i>	3.871E-02	3.871E-02	1.687E-03	-1.329E-04
<i>elyC</i>	1.157E-02	1.157E-02	1.697E-03	-1.347E-04
<i>phnG</i>	4.441E-02	4.441E-02	1.700E-03	-1.349E-04
<i>yfbR</i>	8.892E-04	8.892E-04	1.711E-03	-1.358E-04
<i>mdtB</i>	3.639E-02	3.639E-02	1.711E-03	-1.358E-04
<i>fucK</i>	7.242E-03	7.242E-03	1.781E-03	-1.364E-04
<i>yajO</i>	6.679E-03	6.679E-03	1.719E-03	-1.365E-04
<i>yfhM</i>	2.462E-02	2.462E-02	1.722E-03	-1.367E-04
<i>nadA</i>	8.165E-03	8.165E-03	1.728E-03	-1.372E-04
<i>envZ</i>	1.423E-02	1.423E-02	1.772E-03	-1.376E-04
<i>paaA</i>	4.701E-02	4.701E-02	1.737E-03	-1.378E-04
<i>yehM</i>	1.439E-02	1.439E-02	1.746E-03	-1.386E-04
<i>dps</i>	3.509E-02	3.509E-02	1.747E-03	-1.386E-04
<i>ycfZ</i>	2.297E-02	2.297E-02	1.754E-03	-1.392E-04
<i>Int</i>	2.388E-02	2.388E-02	1.757E-03	-1.394E-04
<i>ribD</i>	3.258E-02	3.258E-02	1.762E-03	-1.398E-04
<i>ampE</i>	5.687E-03	5.687E-03	1.764E-03	-1.400E-04
<i>btuR</i>	3.220E-03	3.220E-03	1.764E-03	-1.400E-04
<i>bamB</i>	2.004E-02	2.004E-02	1.769E-03	-1.404E-04
<i>ispG</i>	2.777E-02	2.777E-02	1.776E-03	-1.409E-04
<i>fepA</i>	2.048E-02	2.048E-02	1.777E-03	-1.411E-04
<i>dppB</i>	2.618E-02	2.618E-02	1.801E-03	-1.429E-04

<i>eamA</i>	3.990E-02	3.990E-02	1.807E-03	-1.434E-04
<i>elaA</i>	3.488E-02	3.488E-02	1.807E-03	-1.435E-04
<i>mhpC</i>	1.107E-02	1.107E-02	1.827E-03	-1.450E-04
<i>glcD</i>	4.883E-02	4.883E-02	1.833E-03	-1.455E-04
<i>yidJ</i>	3.544E-02	3.544E-02	1.834E-03	-1.456E-04
<i>lplA</i>	1.866E-03	1.866E-03	1.836E-03	-1.457E-04
<i>potB</i>	4.313E-02	4.313E-02	1.841E-03	-1.461E-04
<i>fliC</i>	1.984E-02	1.984E-02	1.845E-03	-1.464E-04
<i>dmsC</i>	2.780E-02	2.780E-02	1.859E-03	-1.475E-04
<i>yijE</i>	3.672E-02	3.672E-02	1.862E-03	-1.478E-04
<i>ilvB</i>	1.359E-02	1.359E-02	1.871E-03	-1.485E-04
<i>hcaD</i>	1.691E-02	1.691E-02	1.874E-03	-1.487E-04
<i>rcsD</i>	1.154E-02	1.154E-02	1.894E-03	-1.488E-04
<i>yjfM</i>	3.248E-02	3.248E-02	1.884E-03	-1.495E-04
<i>nfsB</i>	4.663E-02	4.663E-02	1.912E-03	-1.518E-04
<i>gpp</i>	1.510E-02	1.510E-02	1.914E-03	-1.519E-04
<i>sgcC</i>	1.605E-02	1.605E-02	1.928E-03	-1.530E-04
<i>mngB</i>	4.183E-03	4.183E-03	1.938E-03	-1.538E-04
<i>hycC</i>	2.775E-02	2.775E-02	1.948E-03	-1.546E-04
<i>sgcR</i>	4.106E-02	4.106E-02	1.950E-03	-1.548E-04
<i>btuF</i>	2.386E-02	2.386E-02	1.959E-03	-1.555E-04
<i>ygeY</i>	2.726E-02	2.726E-02	1.963E-03	-1.558E-04
<i>groS</i>	2.836E-02	2.836E-02	1.963E-03	-1.558E-04
<i>prc</i>	1.971E-02	1.971E-02	1.964E-03	-1.559E-04
<i>lon</i>	3.019E-03	3.019E-03	1.976E-03	-1.568E-04
<i>fdoG</i>	1.329E-02	1.329E-02	1.985E-03	-1.576E-04
<i>barA</i>	2.841E-02	2.841E-02	1.991E-03	-1.580E-04
<i>ydeN</i>	3.172E-02	3.172E-02	1.995E-03	-1.583E-04
<i>fbaB</i>	3.247E-02	3.247E-02	1.997E-03	-1.585E-04
<i>uidA</i>	2.869E-02	2.869E-02	2.001E-03	-1.588E-04
<i>dosC</i>	2.166E-02	2.166E-02	2.046E-03	-1.596E-04
<i>idnT</i>	1.034E-02	1.034E-02	2.026E-03	-1.598E-04
<i>yhhM</i>	3.061E-02	3.061E-02	2.016E-03	-1.600E-04
<i>ushA</i>	3.354E-03	3.354E-03	2.023E-03	-1.605E-04
<i>cysM</i>	1.133E-02	1.133E-02	2.053E-03	-1.607E-04
<i>qorA</i>	3.256E-02	3.256E-02	2.036E-03	-1.616E-04
<i>phnM</i>	2.356E-02	2.356E-02	2.037E-03	-1.617E-04
<i>ravA</i>	1.350E-02	1.350E-02	2.042E-03	-1.621E-04
<i>adeD</i>	4.479E-02	4.479E-02	2.050E-03	-1.627E-04
<i>rclC</i>	3.041E-02	3.041E-02	2.081E-03	-1.629E-04
<i>rclA</i>	2.289E-03	2.289E-03	2.071E-03	-1.632E-04
<i>phr</i>	1.515E-02	1.515E-02	2.069E-03	-1.642E-04

<i>nagB</i>	3.215E-02	3.215E-02	2.094E-03	-1.649E-04
<i>ydhF</i>	3.825E-02	3.825E-02	2.086E-03	-1.655E-04
<i>thrS</i>	1.078E-02	1.078E-02	2.086E-03	-1.656E-04
<i>metQ</i>	3.006E-02	3.006E-02	2.091E-03	-1.660E-04
<i>ppc</i>	1.361E-02	1.361E-02	2.098E-03	-1.665E-04
<i>btuE</i>	4.823E-03	4.823E-03	2.101E-03	-1.667E-04
<i>mraY</i>	1.312E-02	1.312E-02	2.110E-03	-1.675E-04
<i>queD</i>	2.267E-02	2.267E-02	2.111E-03	-1.676E-04
<i>nudB</i>	8.570E-03	8.570E-03	2.113E-03	-1.677E-04
<i>idi</i>	2.539E-03	2.539E-03	2.117E-03	-1.680E-04
<i>ompF</i>	2.468E-02	2.468E-02	2.117E-03	-1.680E-04
<i>ygcN</i>	4.001E-02	4.001E-02	2.120E-03	-1.683E-04
<i>glnP</i>	6.727E-04	6.727E-04	2.121E-03	-1.683E-04
<i>mall</i>	6.577E-03	6.577E-03	2.140E-03	-1.699E-04
<i>wzb</i>	4.961E-02	4.961E-02	2.170E-03	-1.700E-04
<i>rhtB</i>	2.164E-02	2.164E-02	2.165E-03	-1.703E-04
<i>ybiB</i>	2.409E-02	2.409E-02	2.164E-03	-1.718E-04
<i>qseC</i>	6.291E-03	6.291E-03	2.171E-03	-1.723E-04
<i>lysA</i>	4.162E-02	4.162E-02	2.178E-03	-1.729E-04
<i>macA</i>	4.274E-02	4.274E-02	2.197E-03	-1.743E-04
<i>yobH</i>	3.911E-02	3.911E-02	2.201E-03	-1.747E-04
<i>ybiC</i>	1.449E-02	1.449E-02	2.209E-03	-1.754E-04
<i>yagG</i>	1.748E-02	1.748E-02	2.277E-03	-1.758E-04
<i>mscK</i>	5.756E-03	5.756E-03	2.219E-03	-1.761E-04
<i>yhaV</i>	1.742E-02	1.742E-02	2.224E-03	-1.765E-04
<i>yidK</i>	2.385E-02	2.385E-02	2.233E-03	-1.773E-04
<i>ycbX</i>	1.628E-02	1.628E-02	2.239E-03	-1.777E-04
<i>paaY</i>	1.203E-02	1.203E-02	2.243E-03	-1.780E-04
<i>ybiU</i>	2.774E-02	2.774E-02	2.246E-03	-1.782E-04
<i>sspA</i>	2.838E-02	2.838E-02	2.248E-03	-1.784E-04
<i>mukF</i>	5.453E-03	5.453E-03	2.251E-03	-1.786E-04
<i>dadA</i>	2.751E-02	2.751E-02	2.254E-03	-1.789E-04
<i>hofP</i>	1.757E-02	1.757E-02	2.265E-03	-1.798E-04
<i>cspA</i>	2.996E-02	2.996E-02	2.266E-03	-1.799E-04
<i>gcvT</i>	1.405E-02	1.405E-02	2.269E-03	-1.801E-04
<i>araF</i>	8.237E-03	8.237E-03	2.397E-03	-1.808E-04
<i>ydhU</i>	1.941E-02	1.941E-02	2.279E-03	-1.809E-04
<i>yfaP</i>	2.362E-02	2.362E-02	2.287E-03	-1.815E-04
<i>rpoN</i>	3.529E-02	3.529E-02	2.310E-03	-1.833E-04
<i>malT</i>	1.443E-02	1.443E-02	2.365E-03	-1.839E-04
<i>proB</i>	2.039E-02	2.039E-02	2.383E-03	-1.841E-04
<i>yeaD</i>	2.598E-02	2.598E-02	2.324E-03	-1.845E-04

<i>alsR</i>	4.461E-02	4.461E-02	2.340E-03	-1.847E-04
<i>yggD</i>	4.843E-02	4.843E-02	2.328E-03	-1.848E-04
<i>pstB</i>	9.854E-03	9.854E-03	2.332E-03	-1.850E-04
<i>rbsD</i>	2.973E-02	2.973E-02	2.340E-03	-1.857E-04
<i>yaaJ</i>	7.909E-03	7.909E-03	2.353E-03	-1.867E-04
<i>yihG</i>	2.335E-02	2.335E-02	2.366E-03	-1.868E-04
<i>agaS</i>	3.772E-02	3.772E-02	2.357E-03	-1.871E-04
<i>yhhW</i>	1.578E-02	1.578E-02	2.360E-03	-1.873E-04
<i>recJ</i>	3.657E-03	3.657E-03	2.378E-03	-1.887E-04
<i>yajL</i>	3.849E-02	3.849E-02	2.392E-03	-1.899E-04
<i>phnL</i>	9.235E-03	9.235E-03	2.393E-03	-1.899E-04
<i>glpA</i>	2.305E-02	2.305E-02	2.396E-03	-1.902E-04
<i>lptG</i>	1.462E-02	1.462E-02	2.409E-03	-1.912E-04
<i>fadE</i>	1.843E-02	1.843E-02	2.420E-03	-1.921E-04
<i>yfdC</i>	2.771E-02	2.771E-02	2.430E-03	-1.928E-04
<i>otsA</i>	3.077E-02	3.077E-02	2.470E-03	-1.934E-04
<i>arnD</i>	1.309E-02	1.309E-02	2.445E-03	-1.940E-04
<i>hldE</i>	2.184E-02	2.184E-02	2.456E-03	-1.949E-04
<i>ydjZ</i>	6.961E-03	6.961E-03	2.458E-03	-1.951E-04
<i>tdcB</i>	1.374E-02	1.374E-02	2.486E-03	-1.960E-04
<i>yfgD</i>	1.807E-02	1.807E-02	2.474E-03	-1.963E-04
<i>yffN</i>	4.275E-02	4.275E-02	2.475E-03	-1.964E-04
<i>scpB</i>	3.467E-02	3.467E-02	2.481E-03	-1.969E-04
<i>cfa</i>	4.303E-02	4.303E-02	2.484E-03	-1.972E-04
<i>cysU</i>	8.158E-03	8.158E-03	2.500E-03	-1.972E-04
<i>citB</i>	7.542E-03	7.542E-03	2.488E-03	-1.974E-04
<i>ykfB</i>	1.181E-02	1.181E-02	2.491E-03	-1.977E-04
<i>gph</i>	5.114E-03	5.114E-03	2.522E-03	-1.979E-04
<i>yihT</i>	1.914E-02	1.914E-02	2.504E-03	-1.987E-04
<i>rsmJ</i>	1.937E-02	1.937E-02	2.522E-03	-2.001E-04
<i>ycdU</i>	6.122E-03	6.122E-03	2.533E-03	-2.010E-04
<i>ygbK</i>	4.065E-02	4.065E-02	2.534E-03	-2.011E-04
<i>aldB</i>	1.760E-02	1.760E-02	2.545E-03	-2.020E-04
<i>pitB</i>	2.512E-02	2.512E-02	2.551E-03	-2.025E-04
<i>thiE</i>	2.827E-02	2.827E-02	2.553E-03	-2.026E-04
<i>rlmB</i>	2.746E-02	2.746E-02	2.563E-03	-2.034E-04
<i>bass</i>	5.351E-03	5.351E-03	2.565E-03	-2.036E-04
<i>allC</i>	4.868E-03	4.868E-03	2.573E-03	-2.042E-04
<i>mdtO</i>	1.858E-02	1.858E-02	2.578E-03	-2.046E-04
<i>speE</i>	1.097E-02	1.097E-02	2.592E-03	-2.048E-04
<i>sbcC</i>	1.908E-02	1.908E-02	2.583E-03	-2.050E-04
<i>pheT</i>	5.516E-03	5.516E-03	2.594E-03	-2.059E-04

<i>torl</i>	2.211E-02	2.211E-02	2.610E-03	-2.061E-04
<i>fabA</i>	2.141E-02	2.141E-02	2.597E-03	-2.061E-04
<i>fetB</i>	2.007E-02	2.007E-02	2.602E-03	-2.065E-04
<i>apaH</i>	3.349E-02	3.349E-02	2.605E-03	-2.068E-04
<i>nrfC</i>	1.725E-02	1.725E-02	2.606E-03	-2.069E-04
<i>mscM</i>	1.518E-02	1.518E-02	2.608E-03	-2.070E-04
<i>adiY</i>	3.604E-02	3.604E-02	2.788E-03	-2.078E-04
<i>galT</i>	4.348E-02	4.348E-02	2.619E-03	-2.079E-04
<i>mdtK</i>	5.564E-03	5.564E-03	2.623E-03	-2.082E-04
<i>hupA</i>	2.332E-02	2.332E-02	2.625E-03	-2.084E-04
<i>mglA</i>	4.226E-02	4.226E-02	2.635E-03	-2.091E-04
<i>ydfO</i>	4.560E-02	4.560E-02	3.024E-03	-2.097E-04
<i>yebC</i>	1.124E-02	1.124E-02	2.655E-03	-2.107E-04
<i>araH</i>	1.260E-02	1.260E-02	2.669E-03	-2.108E-04
<i>ychF</i>	2.504E-02	2.504E-02	2.672E-03	-2.121E-04
<i>ycjO</i>	5.220E-03	5.220E-03	2.686E-03	-2.131E-04
<i>gatY</i>	2.606E-02	2.606E-02	2.689E-03	-2.134E-04
<i>orn</i>	2.007E-02	2.007E-02	2.693E-03	-2.137E-04
<i>yacH</i>	4.486E-02	4.486E-02	2.693E-03	-2.138E-04
<i>glcE</i>	2.047E-02	2.047E-02	2.701E-03	-2.143E-04
<i>nrdF</i>	2.756E-02	2.756E-02	2.705E-03	-2.147E-04
<i>yicJ</i>	4.970E-03	4.970E-03	2.766E-03	-2.148E-04
<i>ygbL</i>	1.901E-02	1.901E-02	2.723E-03	-2.161E-04
<i>gltL</i>	1.596E-02	1.596E-02	2.727E-03	-2.164E-04
<i>afuC</i>	1.602E-02	1.602E-02	2.921E-03	-2.167E-04
<i>hcaT</i>	1.081E-03	1.081E-03	2.734E-03	-2.170E-04
<i>nrfG</i>	2.187E-02	2.187E-02	2.794E-03	-2.189E-04
<i>yeiH</i>	4.698E-02	4.698E-02	2.759E-03	-2.189E-04
<i>rbn</i>	3.919E-02	3.919E-02	2.775E-03	-2.191E-04
<i>yaeR</i>	2.066E-02	2.066E-02	2.771E-03	-2.199E-04
<i>pabC</i>	1.231E-02	1.231E-02	2.773E-03	-2.201E-04
<i>waaG</i>	4.260E-02	4.260E-02	2.779E-03	-2.205E-04
<i>ptsP</i>	2.380E-03	2.380E-03	2.782E-03	-2.208E-04
<i>fecD</i>	4.290E-03	4.290E-03	2.822E-03	-2.209E-04
<i>ydeS</i>	7.476E-03	7.476E-03	2.783E-03	-2.209E-04
<i>yidC</i>	2.805E-02	2.805E-02	2.928E-03	-2.211E-04
<i>ccmE</i>	5.975E-03	5.975E-03	2.786E-03	-2.211E-04
<i>malZ</i>	7.842E-03	7.842E-03	2.787E-03	-2.212E-04
<i>yiaL</i>	3.002E-02	3.002E-02	2.787E-03	-2.212E-04
<i>ycjX</i>	4.493E-02	4.493E-02	2.804E-03	-2.214E-04
<i>gfcE</i>	3.776E-02	3.776E-02	2.883E-03	-2.221E-04
<i>flgL</i>	2.001E-02	2.001E-02	2.815E-03	-2.221E-04

<i>rsxD</i>	2.928E-02	2.928E-02	2.818E-03	-2.236E-04
<i>ybbO</i>	3.832E-03	3.832E-03	2.843E-03	-2.243E-04
<i>flgK</i>	1.634E-02	1.634E-02	2.828E-03	-2.244E-04
<i>flhC</i>	2.362E-02	2.362E-02	2.839E-03	-2.253E-04
<i>yqjF</i>	6.966E-03	6.966E-03	2.852E-03	-2.263E-04
<i>djlA</i>	1.489E-02	1.489E-02	2.856E-03	-2.267E-04
<i>skp</i>	1.005E-02	1.005E-02	2.860E-03	-2.270E-04
<i>meth</i>	2.939E-02	2.939E-02	2.884E-03	-2.277E-04
<i>rutG</i>	3.319E-02	3.319E-02	2.910E-03	-2.310E-04
<i>hisG</i>	3.521E-02	3.521E-02	2.945E-03	-2.312E-04
<i>dinB</i>	1.940E-02	1.940E-02	2.922E-03	-2.319E-04
<i>livG</i>	1.280E-02	1.280E-02	2.937E-03	-2.331E-04
<i>lacY</i>	3.862E-02	3.862E-02	2.979E-03	-2.339E-04
<i>pgk</i>	1.160E-02	1.160E-02	2.955E-03	-2.345E-04
<i>cusR</i>	2.860E-02	2.860E-02	2.957E-03	-2.347E-04
<i>adeQ</i>	1.766E-02	1.766E-02	2.958E-03	-2.348E-04
<i>yfbL</i>	3.959E-02	3.959E-02	2.962E-03	-2.351E-04
<i>cysD</i>	5.164E-03	5.164E-03	2.964E-03	-2.353E-04
<i>ccmF</i>	2.743E-03	2.743E-03	2.968E-03	-2.356E-04
<i>rimK</i>	3.811E-02	3.811E-02	3.052E-03	-2.356E-04
<i>eamB</i>	1.629E-02	1.629E-02	3.064E-03	-2.357E-04
<i>ftsL</i>	1.138E-02	1.138E-02	2.970E-03	-2.357E-04
<i>rcnB</i>	7.373E-03	7.373E-03	2.976E-03	-2.362E-04
<i>recX</i>	1.444E-02	1.444E-02	2.976E-03	-2.362E-04
<i>ldcA</i>	2.226E-02	2.226E-02	2.988E-03	-2.371E-04
<i>yafV</i>	4.446E-03	4.446E-03	3.003E-03	-2.383E-04
<i>yphF</i>	6.686E-03	6.686E-03	3.011E-03	-2.390E-04
<i>tdcD</i>	2.806E-02	2.806E-02	3.012E-03	-2.391E-04
<i>yfbT</i>	9.143E-03	9.143E-03	3.201E-03	-2.396E-04
<i>yafS</i>	9.928E-03	9.928E-03	3.034E-03	-2.408E-04
<i>livH</i>	3.688E-03	3.688E-03	3.057E-03	-2.426E-04
<i>yqeC</i>	4.042E-02	4.042E-02	3.063E-03	-2.431E-04
<i>paoC</i>	1.601E-02	1.601E-02	3.063E-03	-2.431E-04
<i>mpaA</i>	1.166E-02	1.166E-02	3.067E-03	-2.434E-04
<i>fsr</i>	2.294E-02	2.294E-02	3.079E-03	-2.443E-04
<i>ddlA</i>	1.125E-02	1.125E-02	3.079E-03	-2.444E-04
<i>yhgF</i>	4.663E-03	4.663E-03	3.091E-03	-2.453E-04
<i>argF</i>	1.840E-02	1.840E-02	3.094E-03	-2.455E-04
<i>ugpQ</i>	1.300E-02	1.300E-02	3.158E-03	-2.474E-04
<i>yncG</i>	4.505E-02	4.505E-02	3.131E-03	-2.485E-04
<i>narK</i>	1.194E-02	1.194E-02	3.168E-03	-2.505E-04
<i>yeiB</i>	7.494E-03	7.494E-03	3.162E-03	-2.510E-04

<i>ygil</i>	1.760E-02	1.760E-02	3.164E-03	-2.511E-04
<i>ydiU</i>	8.835E-03	8.835E-03	3.165E-03	-2.512E-04
<i>fixB</i>	2.694E-02	2.694E-02	3.166E-03	-2.512E-04
<i>recE</i>	3.165E-02	3.165E-02	3.184E-03	-2.527E-04
<i>htpX</i>	1.325E-02	1.325E-02	3.199E-03	-2.539E-04
<i>sucA</i>	2.917E-02	2.917E-02	3.205E-03	-2.544E-04
<i>dgoA</i>	1.433E-02	1.433E-02	3.214E-03	-2.551E-04
<i>trmN</i>	6.744E-03	6.744E-03	3.216E-03	-2.553E-04
<i>phnJ</i>	5.565E-03	5.565E-03	3.230E-03	-2.554E-04
<i>paaJ</i>	4.079E-02	4.079E-02	3.218E-03	-2.554E-04
<i>zntA</i>	2.626E-02	2.626E-02	3.239E-03	-2.558E-04
<i>fruK</i>	9.751E-03	9.751E-03	3.278E-03	-2.565E-04
<i>mltF</i>	4.946E-02	4.946E-02	3.243E-03	-2.574E-04
<i>nikA</i>	4.808E-02	4.808E-02	3.245E-03	-2.576E-04
<i>treA</i>	1.126E-02	1.126E-02	3.287E-03	-2.593E-04
<i>ypdB</i>	6.512E-03	6.512E-03	3.268E-03	-2.594E-04
<i>hypE</i>	1.650E-02	1.650E-02	3.272E-03	-2.597E-04
<i>purH</i>	1.692E-02	1.692E-02	3.281E-03	-2.604E-04
<i>yfjL</i>	2.429E-02	2.429E-02	3.281E-03	-2.604E-04
<i>yfcP</i>	1.230E-02	1.230E-02	3.340E-03	-2.620E-04
<i>marA</i>	7.014E-03	7.014E-03	3.309E-03	-2.626E-04
<i>malK</i>	2.130E-02	2.130E-02	3.354E-03	-2.662E-04
<i>alaS</i>	4.662E-02	4.662E-02	3.403E-03	-2.701E-04
<i>creC</i>	2.279E-02	2.279E-02	3.452E-03	-2.704E-04
<i>ribF</i>	2.748E-03	2.748E-03	3.418E-03	-2.713E-04
<i>nuoE</i>	3.167E-03	3.167E-03	3.429E-03	-2.721E-04
<i>glyA</i>	4.143E-02	4.143E-02	3.531E-03	-2.724E-04
<i>rhmR</i>	6.878E-03	6.878E-03	3.447E-03	-2.736E-04
<i>murE</i>	2.876E-02	2.876E-02	3.453E-03	-2.740E-04
<i>torY</i>	2.050E-02	2.050E-02	3.469E-03	-2.753E-04
<i>yfgI</i>	2.300E-02	2.300E-02	3.484E-03	-2.754E-04
<i>queG</i>	2.141E-02	2.141E-02	3.489E-03	-2.769E-04
<i>tsaE</i>	3.151E-02	3.151E-02	3.502E-03	-2.779E-04
<i>pgpC</i>	1.502E-02	1.502E-02	3.502E-03	-2.779E-04
<i>miaB</i>	3.348E-02	3.348E-02	3.511E-03	-2.786E-04
<i>yegX</i>	1.455E-02	1.455E-02	3.519E-03	-2.793E-04
<i>malG</i>	1.378E-02	1.378E-02	3.539E-03	-2.795E-04
<i>fepB</i>	4.781E-03	4.781E-03	3.544E-03	-2.802E-04
<i>wcaK</i>	2.022E-02	2.022E-02	3.532E-03	-2.803E-04
<i>tadA</i>	2.304E-02	2.304E-02	3.539E-03	-2.809E-04
<i>ydfU</i>	2.583E-02	2.583E-02	3.547E-03	-2.815E-04
<i>yfeO</i>	8.694E-03	8.694E-03	3.548E-03	-2.816E-04

<i>accC</i>	6.976E-04	6.976E-04	3.550E-03	-2.817E-04
<i>opgB</i>	3.443E-02	3.443E-02	3.556E-03	-2.823E-04
<i>paoD</i>	4.352E-02	4.352E-02	3.567E-03	-2.831E-04
<i>dmlR</i>	7.584E-03	7.584E-03	3.582E-03	-2.843E-04
<i>ybjJ</i>	7.943E-04	7.943E-04	3.583E-03	-2.844E-04
<i>lsrD</i>	1.922E-02	1.922E-02	3.601E-03	-2.847E-04
<i>galR</i>	1.042E-02	1.042E-02	3.594E-03	-2.853E-04
<i>atoA</i>	3.900E-02	3.900E-02	3.613E-03	-2.867E-04
<i>recQ</i>	1.003E-02	1.003E-02	3.910E-03	-2.874E-04
<i>uxaC</i>	1.925E-03	1.925E-03	3.651E-03	-2.879E-04
<i>wecE</i>	3.901E-02	3.901E-02	3.629E-03	-2.880E-04
<i>hemN</i>	3.935E-02	3.935E-02	3.630E-03	-2.881E-04
<i>hscA</i>	3.080E-02	3.080E-02	3.632E-03	-2.882E-04
<i>tig</i>	2.057E-02	2.057E-02	3.635E-03	-2.885E-04
<i>ytfJ</i>	2.334E-02	2.334E-02	3.665E-03	-2.888E-04
<i>wecB</i>	3.699E-02	3.699E-02	3.645E-03	-2.893E-04
<i>aer</i>	9.749E-03	9.749E-03	3.754E-03	-2.898E-04
<i>cysN</i>	3.862E-02	3.862E-02	3.663E-03	-2.898E-04
<i>yjjJ</i>	2.692E-03	2.692E-03	3.653E-03	-2.899E-04
<i>cueO</i>	2.851E-02	2.851E-02	3.663E-03	-2.907E-04
<i>rep</i>	1.575E-03	1.575E-03	3.664E-03	-2.908E-04
<i>yieP</i>	2.002E-02	2.002E-02	3.669E-03	-2.912E-04
<i>mscS</i>	1.348E-02	1.348E-02	3.692E-03	-2.930E-04
<i>maeB</i>	1.657E-03	1.657E-03	3.693E-03	-2.931E-04
<i>lhr</i>	1.784E-04	1.784E-04	3.714E-03	-2.935E-04
<i>gltD</i>	3.307E-02	3.307E-02	3.713E-03	-2.947E-04
<i>ydjH</i>	3.427E-03	3.427E-03	3.745E-03	-2.959E-04
<i>mntH</i>	7.512E-04	7.512E-04	3.740E-03	-2.969E-04
<i>tyrR</i>	3.306E-02	3.306E-02	3.744E-03	-2.971E-04
<i>sgbH</i>	1.906E-02	1.906E-02	3.748E-03	-2.975E-04
<i>chbG</i>	4.567E-02	4.567E-02	3.749E-03	-2.976E-04
<i>rsmD</i>	1.125E-02	1.125E-02	3.755E-03	-2.980E-04
<i>ycaO</i>	2.615E-02	2.615E-02	3.757E-03	-2.982E-04
<i>serB</i>	6.098E-03	6.098E-03	3.782E-03	-2.991E-04
<i>ydaU</i>	7.969E-03	7.969E-03	3.778E-03	-2.999E-04
<i>rsgA</i>	3.517E-03	3.517E-03	3.793E-03	-3.010E-04
<i>ybeR</i>	2.927E-02	2.927E-02	3.799E-03	-3.015E-04
<i>mlaE</i>	1.233E-02	1.233E-02	3.808E-03	-3.022E-04
<i>rnhA</i>	2.815E-02	2.815E-02	3.811E-03	-3.025E-04
<i>yhfX</i>	4.024E-03	4.024E-03	3.832E-03	-3.041E-04
<i>yihU</i>	3.595E-03	3.595E-03	4.023E-03	-3.045E-04
<i>loiP</i>	1.320E-03	1.320E-03	3.926E-03	-3.049E-04

<i>rpoD</i>	2.795E-03	2.795E-03	3.847E-03	-3.053E-04
<i>rhaB</i>	4.043E-02	4.043E-02	4.061E-03	-3.064E-04
<i>galM</i>	7.498E-03	7.498E-03	3.865E-03	-3.068E-04
<i>mdtE</i>	1.063E-02	1.063E-02	3.871E-03	-3.072E-04
<i>trpB</i>	1.497E-02	1.497E-02	3.878E-03	-3.078E-04
<i>crfC</i>	4.289E-02	4.289E-02	3.917E-03	-3.109E-04
<i>yraR</i>	3.116E-02	3.116E-02	3.995E-03	-3.125E-04
<i>ybgL</i>	2.397E-02	2.397E-02	3.946E-03	-3.132E-04
<i>artI</i>	1.369E-02	1.369E-02	3.948E-03	-3.133E-04
<i>cynS</i>	3.185E-02	3.185E-02	3.961E-03	-3.134E-04
<i>rrrQ</i>	8.839E-03	8.839E-03	3.974E-03	-3.141E-04
<i>pck</i>	1.396E-02	1.396E-02	4.044E-03	-3.144E-04
<i>yfeW</i>	4.701E-02	4.701E-02	3.967E-03	-3.149E-04
<i>yegW</i>	3.841E-03	3.841E-03	3.978E-03	-3.157E-04
<i>galP</i>	3.890E-02	3.890E-02	3.981E-03	-3.160E-04
<i>yajG</i>	2.421E-04	2.421E-04	3.995E-03	-3.161E-04
<i>ybbA</i>	4.977E-02	4.977E-02	3.995E-03	-3.170E-04
<i>ybhL</i>	2.122E-02	2.122E-02	4.011E-03	-3.184E-04
<i>glcF</i>	3.322E-02	3.322E-02	4.030E-03	-3.199E-04
<i>dhaR</i>	7.749E-03	7.749E-03	4.039E-03	-3.205E-04
<i>dusC</i>	2.587E-03	2.587E-03	4.039E-03	-3.206E-04
<i>topB</i>	1.300E-03	1.300E-03	4.040E-03	-3.206E-04
<i>ycjW</i>	5.266E-03	5.266E-03	4.262E-03	-3.208E-04
<i>mgIC</i>	3.969E-02	3.969E-02	4.126E-03	-3.208E-04
<i>hcaC</i>	1.327E-02	1.327E-02	4.087E-03	-3.244E-04
<i>ycjG</i>	1.674E-02	1.674E-02	4.163E-03	-3.245E-04
<i>yfaT</i>	2.875E-02	2.875E-02	4.106E-03	-3.259E-04
<i>rcsB</i>	1.729E-02	1.729E-02	4.115E-03	-3.266E-04
<i>yjhB</i>	2.210E-02	2.210E-02	4.117E-03	-3.267E-04
<i>ugpB</i>	3.491E-04	3.491E-04	4.163E-03	-3.267E-04
<i>emrD</i>	2.336E-02	2.336E-02	4.213E-03	-3.268E-04
<i>mdtG</i>	3.577E-02	3.577E-02	4.546E-03	-3.269E-04
<i>ygfF</i>	2.386E-02	2.386E-02	4.122E-03	-3.272E-04
<i>iscA</i>	1.628E-02	1.628E-02	4.127E-03	-3.275E-04
<i>rsmH</i>	4.542E-02	4.542E-02	4.137E-03	-3.284E-04
<i>fliY</i>	2.916E-02	2.916E-02	4.310E-03	-3.297E-04
<i>smtA</i>	1.689E-02	1.689E-02	4.158E-03	-3.300E-04
<i>selB</i>	9.578E-03	9.578E-03	4.176E-03	-3.314E-04
<i>ecpE</i>	4.984E-02	4.984E-02	4.214E-03	-3.319E-04
<i>ppiB</i>	4.694E-03	4.694E-03	4.184E-03	-3.320E-04
<i>yggS</i>	9.911E-03	9.911E-03	4.209E-03	-3.341E-04
<i>argC</i>	3.137E-02	3.137E-02	4.246E-03	-3.359E-04

<i>livJ</i>	2.825E-02	2.825E-02	4.281E-03	-3.371E-04
<i>yihN</i>	2.761E-02	2.761E-02	4.267E-03	-3.387E-04
<i>lysP</i>	4.256E-02	4.256E-02	4.280E-03	-3.397E-04
<i>epmB</i>	3.487E-02	3.487E-02	4.283E-03	-3.399E-04
<i>yaaW</i>	8.020E-03	8.020E-03	4.588E-03	-3.421E-04
<i>gmhA</i>	1.528E-02	1.528E-02	4.320E-03	-3.428E-04
<i>ucpA</i>	2.344E-02	2.344E-02	4.336E-03	-3.441E-04
<i>tyrB</i>	1.643E-02	1.643E-02	4.351E-03	-3.453E-04
<i>cbdA</i>	3.271E-02	3.271E-02	4.368E-03	-3.458E-04
<i>plsX</i>	3.619E-03	3.619E-03	4.361E-03	-3.461E-04
<i>yagK</i>	2.557E-02	2.557E-02	4.434E-03	-3.477E-04
<i>sgcX</i>	4.337E-02	4.337E-02	4.385E-03	-3.480E-04
<i>yiaJ</i>	2.310E-03	2.310E-03	4.621E-03	-3.481E-04
<i>fre</i>	1.579E-02	1.579E-02	4.390E-03	-3.484E-04
<i>torA</i>	1.497E-02	1.497E-02	4.397E-03	-3.489E-04
<i>paoA</i>	1.130E-02	1.130E-02	4.517E-03	-3.509E-04
<i>pmbA</i>	3.227E-03	3.227E-03	4.424E-03	-3.511E-04
<i>uacT</i>	3.594E-02	3.594E-02	4.458E-03	-3.538E-04
<i>ydiP</i>	1.125E-02	1.125E-02	4.463E-03	-3.542E-04
<i>zraP</i>	2.310E-02	2.310E-02	4.699E-03	-3.553E-04
<i>alkA</i>	5.480E-04	5.480E-04	4.477E-03	-3.553E-04
<i>appA</i>	2.584E-02	2.584E-02	4.860E-03	-3.554E-04
<i>deoA</i>	2.651E-02	2.651E-02	4.507E-03	-3.556E-04
<i>ybjP</i>	8.152E-03	8.152E-03	4.486E-03	-3.560E-04
<i>alaA</i>	2.839E-03	2.839E-03	4.501E-03	-3.573E-04
<i>ulaA</i>	8.148E-03	8.148E-03	4.511E-03	-3.580E-04
<i>pheA</i>	2.466E-02	2.466E-02	4.515E-03	-3.583E-04
<i>opgE</i>	2.054E-02	2.054E-02	4.529E-03	-3.584E-04
<i>gmr</i>	1.844E-02	1.844E-02	4.663E-03	-3.589E-04
<i>ompA</i>	1.136E-02	1.136E-02	4.523E-03	-3.590E-04
<i>narP</i>	5.124E-03	5.124E-03	4.649E-03	-3.597E-04
<i>ycbZ</i>	3.709E-02	3.709E-02	4.533E-03	-3.597E-04
<i>tktA</i>	9.331E-03	9.331E-03	4.533E-03	-3.598E-04
<i>thiD</i>	3.718E-02	3.718E-02	4.621E-03	-3.601E-04
<i>iclR</i>	6.931E-03	6.931E-03	4.606E-03	-3.621E-04
<i>yraN</i>	7.249E-03	7.249E-03	4.641E-03	-3.625E-04
<i>ftsI</i>	3.493E-02	3.493E-02	4.578E-03	-3.633E-04
<i>nanS</i>	1.495E-02	1.495E-02	4.587E-03	-3.641E-04
<i>betA</i>	2.488E-02	2.488E-02	4.606E-03	-3.644E-04
<i>glk</i>	3.041E-02	3.041E-02	4.599E-03	-3.650E-04
<i>nagZ</i>	1.762E-02	1.762E-02	4.602E-03	-3.653E-04
<i>yjfK</i>	1.697E-02	1.697E-02	4.614E-03	-3.662E-04

<i>yggP</i>	5.835E-03	5.835E-03	4.623E-03	-3.669E-04
<i>ispU</i>	1.914E-02	1.914E-02	4.740E-03	-3.670E-04
<i>perR</i>	2.769E-03	2.769E-03	4.789E-03	-3.677E-04
<i>lgoD</i>	1.905E-02	1.905E-02	4.654E-03	-3.683E-04
<i>chbB</i>	3.645E-03	3.645E-03	4.652E-03	-3.692E-04
<i>cra</i>	7.517E-03	7.517E-03	4.664E-03	-3.701E-04
<i>wzyE</i>	7.037E-03	7.037E-03	4.675E-03	-3.710E-04
<i>ftsP</i>	2.456E-02	2.456E-02	4.676E-03	-3.711E-04
<i>cobB</i>	1.608E-03	1.608E-03	4.687E-03	-3.711E-04
<i>yagA</i>	3.126E-02	3.126E-02	4.699E-03	-3.719E-04
<i>flk</i>	2.615E-03	2.615E-03	4.686E-03	-3.719E-04
<i>menA</i>	8.439E-03	8.439E-03	4.688E-03	-3.721E-04
<i>moaE</i>	5.344E-03	5.344E-03	4.763E-03	-3.741E-04
<i>yidR</i>	3.264E-02	3.264E-02	4.715E-03	-3.742E-04
<i>yaiO</i>	1.232E-02	1.232E-02	4.724E-03	-3.749E-04
<i>gudD</i>	2.503E-02	2.503E-02	4.770E-03	-3.757E-04
<i>ulaR</i>	1.381E-02	1.381E-02	4.741E-03	-3.763E-04
<i>lpnP</i>	9.590E-03	9.590E-03	5.073E-03	-3.775E-04
<i>efeB</i>	1.479E-02	1.479E-02	4.758E-03	-3.776E-04
<i>chbA</i>	2.140E-02	2.140E-02	4.760E-03	-3.778E-04
<i>allB</i>	4.071E-02	4.071E-02	4.780E-03	-3.783E-04
<i>xylF</i>	7.322E-03	7.322E-03	4.782E-03	-3.795E-04
<i>pqiB</i>	1.169E-02	1.169E-02	4.785E-03	-3.798E-04
<i>sfmZ</i>	2.566E-02	2.566E-02	4.818E-03	-3.801E-04
<i>hemA</i>	1.300E-02	1.300E-02	4.797E-03	-3.807E-04
<i>epmC</i>	4.477E-03	4.477E-03	4.815E-03	-3.821E-04
<i>yceB</i>	4.611E-02	4.611E-02	4.823E-03	-3.827E-04
<i>araG</i>	2.805E-03	2.805E-03	4.832E-03	-3.835E-04
<i>dgcZ</i>	7.427E-03	7.427E-03	4.867E-03	-3.849E-04
<i>wcaC</i>	1.663E-02	1.663E-02	4.879E-03	-3.850E-04
<i>yafW</i>	3.609E-02	3.609E-02	4.865E-03	-3.851E-04
<i>caiA</i>	1.976E-03	1.976E-03	4.900E-03	-3.889E-04
<i>sgbE</i>	2.910E-02	2.910E-02	4.904E-03	-3.892E-04
<i>cheR</i>	1.633E-03	1.633E-03	4.980E-03	-3.896E-04
<i>mhpA</i>	7.110E-03	7.110E-03	5.071E-03	-3.911E-04
<i>deoD</i>	3.700E-02	3.700E-02	4.940E-03	-3.921E-04
<i>ompR</i>	5.568E-03	5.568E-03	4.945E-03	-3.925E-04
<i>ldtA</i>	1.430E-02	1.430E-02	4.959E-03	-3.936E-04
<i>yhfY</i>	5.121E-03	5.121E-03	4.960E-03	-3.936E-04
<i>fhlA</i>	1.475E-02	1.475E-02	4.975E-03	-3.948E-04
<i>gor</i>	2.409E-03	2.409E-03	4.981E-03	-3.953E-04
<i>astB</i>	1.263E-02	1.263E-02	5.012E-03	-3.969E-04

<i>secD</i>	7.941E-03	7.941E-03	5.026E-03	-3.989E-04
<i>yhaC</i>	2.222E-02	2.222E-02	5.035E-03	-3.996E-04
<i>thrB</i>	1.246E-03	1.246E-03	5.048E-03	-4.006E-04
<i>yqcA</i>	1.829E-02	1.829E-02	5.088E-03	-4.019E-04
<i>zitB</i>	2.378E-02	2.378E-02	5.080E-03	-4.031E-04
<i>kdpB</i>	7.373E-03	7.373E-03	5.109E-03	-4.035E-04
<i>rluC</i>	1.416E-02	1.416E-02	5.097E-03	-4.045E-04
<i>yhjG</i>	1.034E-02	1.034E-02	5.109E-03	-4.055E-04
<i>norW</i>	3.998E-02	3.998E-02	5.150E-03	-4.087E-04
<i>clpA</i>	1.558E-02	1.558E-02	5.155E-03	-4.091E-04
<i>pcm</i>	2.929E-02	2.929E-02	5.160E-03	-4.095E-04
<i>gfcC</i>	9.354E-03	9.354E-03	5.195E-03	-4.108E-04
<i>yfcR</i>	3.635E-02	3.635E-02	5.177E-03	-4.109E-04
<i>ygjK</i>	1.103E-02	1.103E-02	5.189E-03	-4.118E-04
<i>yijO</i>	3.823E-03	3.823E-03	5.211E-03	-4.136E-04
<i>yjiH</i>	4.393E-02	4.393E-02	5.232E-03	-4.152E-04
<i>phoH</i>	2.428E-03	2.428E-03	5.234E-03	-4.154E-04
<i>yfbM</i>	1.097E-02	1.097E-02	5.480E-03	-4.168E-04
<i>leuC</i>	4.166E-02	4.166E-02	5.270E-03	-4.182E-04
<i>srlR</i>	1.101E-02	1.101E-02	5.306E-03	-4.194E-04
<i>tamA</i>	5.897E-04	5.897E-04	5.289E-03	-4.197E-04
<i>zraS</i>	3.769E-02	3.769E-02	5.383E-03	-4.272E-04
<i>glpG</i>	9.046E-03	9.046E-03	5.422E-03	-4.303E-04
<i>yejF</i>	4.111E-02	4.111E-02	5.452E-03	-4.327E-04
<i>yhiD</i>	1.767E-02	1.767E-02	5.468E-03	-4.340E-04
<i>rhmA</i>	1.025E-02	1.025E-02	5.472E-03	-4.343E-04
<i>hsdS</i>	1.985E-02	1.985E-02	5.503E-03	-4.367E-04
<i>intZ</i>	2.932E-02	2.932E-02	5.505E-03	-4.369E-04
<i>ynbD</i>	1.003E-02	1.003E-02	5.507E-03	-4.371E-04
<i>arsB</i>	4.597E-03	4.597E-03	5.838E-03	-4.374E-04
<i>nirD</i>	4.062E-02	4.062E-02	5.536E-03	-4.393E-04
<i>ubiH</i>	7.093E-03	7.093E-03	5.555E-03	-4.409E-04
<i>lpxC</i>	3.493E-02	3.493E-02	5.568E-03	-4.419E-04
<i>speA</i>	6.382E-03	6.382E-03	5.571E-03	-4.422E-04
<i>puuB</i>	1.023E-02	1.023E-02	5.592E-03	-4.438E-04
<i>hyfR</i>	1.389E-02	1.389E-02	5.931E-03	-4.445E-04
<i>clcB</i>	2.156E-02	2.156E-02	5.614E-03	-4.455E-04
<i>rnr</i>	3.155E-02	3.155E-02	5.619E-03	-4.460E-04
<i>rlmD</i>	4.463E-03	4.463E-03	5.698E-03	-4.487E-04
<i>purF</i>	2.059E-02	2.059E-02	5.670E-03	-4.500E-04
<i>upp</i>	3.939E-04	3.939E-04	5.710E-03	-4.519E-04
<i>folP</i>	2.781E-02	2.781E-02	5.712E-03	-4.533E-04

<i>glmM</i>	4.853E-02	4.853E-02	5.728E-03	-4.546E-04
<i>ybeX</i>	1.908E-02	1.908E-02	5.984E-03	-4.558E-04
<i>ycbK</i>	3.109E-02	3.109E-02	5.744E-03	-4.559E-04
<i>hyfA</i>	4.906E-03	4.906E-03	5.831E-03	-4.573E-04
<i>yraP</i>	3.003E-02	3.003E-02	5.769E-03	-4.579E-04
<i>aroA</i>	7.073E-03	7.073E-03	5.776E-03	-4.584E-04
<i>yheS</i>	6.529E-03	6.529E-03	5.823E-03	-4.585E-04
<i>nuoA</i>	5.596E-03	5.596E-03	5.782E-03	-4.589E-04
<i>moaA</i>	1.866E-02	1.866E-02	5.873E-03	-4.598E-04
<i>yjjQ</i>	7.953E-04	7.953E-04	5.797E-03	-4.601E-04
<i>yjiK</i>	4.113E-02	4.113E-02	5.992E-03	-4.614E-04
<i>yhhJ</i>	1.195E-02	1.195E-02	5.950E-03	-4.651E-04
<i>yciQ</i>	2.057E-02	2.057E-02	5.892E-03	-4.676E-04
<i>parE</i>	5.807E-03	5.807E-03	5.897E-03	-4.680E-04
<i>yfjD</i>	5.354E-03	5.354E-03	5.906E-03	-4.687E-04
<i>lpxT</i>	3.315E-02	3.315E-02	5.930E-03	-4.706E-04
<i>malP</i>	1.062E-02	1.062E-02	5.970E-03	-4.712E-04
<i>eutJ</i>	5.663E-03	5.663E-03	5.954E-03	-4.726E-04
<i>adhP</i>	1.196E-02	1.196E-02	6.109E-03	-4.736E-04
<i>uhpB</i>	3.746E-04	3.746E-04	6.008E-03	-4.768E-04
<i>diaA</i>	2.596E-03	2.596E-03	6.014E-03	-4.773E-04
<i>insH1</i>	3.136E-02	3.136E-02	6.045E-03	-4.798E-04
<i>yciF</i>	8.066E-03	8.066E-03	6.467E-03	-4.865E-04
<i>yceD</i>	2.205E-03	2.205E-03	6.159E-03	-4.879E-04
<i>yajQ</i>	3.058E-02	3.058E-02	6.149E-03	-4.880E-04
<i>yggL</i>	3.406E-02	3.406E-02	6.154E-03	-4.884E-04
<i>yadN</i>	4.649E-02	4.649E-02	6.527E-03	-4.893E-04
<i>yebQ</i>	3.753E-02	3.753E-02	6.226E-03	-4.895E-04
<i>thiL</i>	3.619E-02	3.619E-02	6.183E-03	-4.907E-04
<i>ydeM</i>	4.031E-02	4.031E-02	6.202E-03	-4.908E-04
<i>yjjV</i>	4.199E-03	4.199E-03	6.247E-03	-4.958E-04
<i>dsbG</i>	3.326E-02	3.326E-02	6.323E-03	-4.964E-04
<i>ettA</i>	4.897E-02	4.897E-02	6.281E-03	-4.985E-04
<i>pflA</i>	3.082E-02	3.082E-02	6.665E-03	-5.016E-04
<i>ampD</i>	5.839E-03	5.839E-03	6.337E-03	-5.029E-04
<i>dcrB</i>	1.656E-02	1.656E-02	6.449E-03	-5.039E-04
<i>avtA</i>	3.344E-02	3.344E-02	6.373E-03	-5.058E-04
<i>sucD</i>	1.336E-03	1.336E-03	6.806E-03	-5.083E-04
<i>ybbY</i>	1.111E-02	1.111E-02	6.432E-03	-5.105E-04
<i>rdgB</i>	4.045E-03	4.045E-03	6.457E-03	-5.125E-04
<i>yjjX</i>	9.965E-03	9.965E-03	6.493E-03	-5.141E-04
<i>paoB</i>	1.436E-02	1.436E-02	6.576E-03	-5.158E-04

<i>zapC</i>	4.455E-03	4.455E-03	6.542E-03	-5.192E-04
<i>sgrR</i>	7.884E-03	7.884E-03	6.587E-03	-5.228E-04
<i>thiM</i>	3.517E-02	3.517E-02	6.625E-03	-5.258E-04
<i>yhgE</i>	1.319E-02	1.319E-02	6.663E-03	-5.266E-04
<i>b1c</i>	4.218E-02	4.218E-02	6.647E-03	-5.275E-04
<i>hisJ</i>	2.907E-02	2.907E-02	7.086E-03	-5.281E-04
<i>yiiD</i>	1.324E-02	1.324E-02	6.711E-03	-5.286E-04
<i>ydcK</i>	2.133E-04	2.133E-04	6.703E-03	-5.310E-04
<i>yegD</i>	3.428E-02	3.428E-02	6.736E-03	-5.346E-04
<i>yafJ</i>	2.158E-02	2.158E-02	6.838E-03	-5.365E-04
<i>menF</i>	1.812E-02	1.812E-02	6.776E-03	-5.367E-04
<i>ybhG</i>	8.778E-03	8.778E-03	6.786E-03	-5.386E-04
<i>rfbA</i>	1.901E-02	1.901E-02	6.955E-03	-5.389E-04
<i>nanR</i>	1.372E-02	1.372E-02	6.792E-03	-5.391E-04
<i>modF</i>	4.065E-03	4.065E-03	6.828E-03	-5.419E-04
<i>nudJ</i>	5.645E-03	5.645E-03	6.859E-03	-5.443E-04
<i>valS</i>	1.233E-02	1.233E-02	6.875E-03	-5.456E-04
<i>menH</i>	1.276E-03	1.276E-03	7.227E-03	-5.470E-04
<i>yehW</i>	4.535E-02	4.535E-02	7.470E-03	-5.501E-04
<i>sdiA</i>	5.787E-03	5.787E-03	6.945E-03	-5.512E-04
<i>ydgJ</i>	4.788E-02	4.788E-02	6.946E-03	-5.512E-04
<i>gsk</i>	7.859E-03	7.859E-03	7.305E-03	-5.520E-04
<i>torC</i>	7.589E-03	7.589E-03	7.034E-03	-5.583E-04
<i>tgt</i>	4.219E-02	4.219E-02	7.035E-03	-5.583E-04
<i>wcaJ</i>	5.851E-03	5.851E-03	7.071E-03	-5.612E-04
<i>pyrF</i>	1.151E-02	1.151E-02	7.095E-03	-5.631E-04
<i>fryC</i>	1.580E-03	1.580E-03	7.130E-03	-5.659E-04
<i>guaD</i>	2.765E-02	2.765E-02	7.151E-03	-5.675E-04
<i>cysI</i>	2.234E-02	2.234E-02	7.209E-03	-5.680E-04
<i>yhjY</i>	3.315E-02	3.315E-02	7.170E-03	-5.690E-04
<i>yrbL</i>	3.907E-02	3.907E-02	7.995E-03	-5.692E-04
<i>yedR</i>	4.959E-02	4.959E-02	7.188E-03	-5.705E-04
<i>ycil</i>	4.728E-02	4.728E-02	7.202E-03	-5.706E-04
<i>fecB</i>	3.556E-02	3.556E-02	7.384E-03	-5.717E-04
<i>yafE</i>	1.630E-02	1.630E-02	7.519E-03	-5.820E-04
<i>sxy</i>	3.504E-02	3.504E-02	7.337E-03	-5.823E-04
<i>bioH</i>	5.198E-03	5.198E-03	7.667E-03	-5.857E-04
<i>yfaA</i>	1.344E-02	1.344E-02	7.414E-03	-5.858E-04
<i>xdhA</i>	4.834E-03	4.834E-03	7.382E-03	-5.859E-04
<i>citC</i>	7.550E-03	7.550E-03	7.533E-03	-5.892E-04
<i>tldD</i>	1.202E-02	1.202E-02	7.457E-03	-5.905E-04
<i>yfjY</i>	4.429E-02	4.429E-02	7.491E-03	-5.945E-04

<i>agaC</i>	5.702E-03	5.702E-03	8.108E-03	-5.987E-04
<i>der</i>	5.556E-03	5.556E-03	7.544E-03	-5.987E-04
<i>yajR</i>	3.416E-02	3.416E-02	7.557E-03	-5.998E-04
<i>arcA</i>	4.000E-03	4.000E-03	7.562E-03	-6.001E-04
<i>surA</i>	3.771E-02	3.771E-02	7.677E-03	-6.013E-04
<i>glsB</i>	4.832E-03	4.832E-03	7.635E-03	-6.060E-04
<i>purN</i>	4.811E-02	4.811E-02	7.636E-03	-6.061E-04
<i>mtlR</i>	6.614E-03	6.614E-03	7.694E-03	-6.076E-04
<i>fhuB</i>	1.971E-02	1.971E-02	7.724E-03	-6.087E-04
<i>tas</i>	1.395E-03	1.395E-03	7.669E-03	-6.087E-04
<i>fimD</i>	1.888E-02	1.888E-02	7.669E-03	-6.087E-04
<i>yabl</i>	1.746E-02	1.746E-02	7.877E-03	-6.088E-04
<i>fimA</i>	2.388E-02	2.388E-02	7.926E-03	-6.088E-04
<i>uup</i>	1.319E-02	1.319E-02	7.729E-03	-6.111E-04
<i>emrB</i>	4.955E-02	4.955E-02	7.744E-03	-6.146E-04
<i>yhhX</i>	2.967E-03	2.967E-03	7.885E-03	-6.157E-04
<i>aspS</i>	7.607E-03	7.607E-03	8.074E-03	-6.167E-04
<i>yieK</i>	2.260E-02	2.260E-02	8.049E-03	-6.173E-04
<i>emrY</i>	7.219E-03	7.219E-03	7.922E-03	-6.288E-04
<i>ydiB</i>	1.194E-02	1.194E-02	8.030E-03	-6.340E-04
<i>rpoH</i>	9.789E-03	9.789E-03	8.022E-03	-6.367E-04
<i>cof</i>	2.330E-02	2.330E-02	8.042E-03	-6.383E-04
<i>ybgF</i>	2.807E-03	2.807E-03	8.068E-03	-6.390E-04
<i>hldD</i>	1.964E-02	1.964E-02	8.110E-03	-6.436E-04
<i>lsrK</i>	2.746E-03	2.746E-03	8.150E-03	-6.450E-04
<i>asnA</i>	1.479E-03	1.479E-03	8.190E-03	-6.454E-04
<i>gluQ</i>	2.138E-02	2.138E-02	8.201E-03	-6.477E-04
<i>nupX</i>	4.128E-03	4.128E-03	8.472E-03	-6.490E-04
<i>dacD</i>	1.800E-02	1.800E-02	8.769E-03	-6.547E-04
<i>fucO</i>	2.040E-02	2.040E-02	8.277E-03	-6.548E-04
<i>gss</i>	3.183E-03	3.183E-03	8.265E-03	-6.559E-04
<i>murP</i>	8.195E-03	8.195E-03	8.321E-03	-6.604E-04
<i>rrrD</i>	4.185E-02	4.185E-02	9.016E-03	-6.616E-04
<i>gcl</i>	2.761E-02	2.761E-02	9.020E-03	-6.629E-04
<i>yhhZ</i>	1.286E-02	1.286E-02	8.433E-03	-6.651E-04
<i>smf</i>	8.941E-03	8.941E-03	8.413E-03	-6.677E-04
<i>fadl</i>	1.367E-02	1.367E-02	8.545E-03	-6.743E-04
<i>yjbB</i>	2.560E-02	2.560E-02	8.506E-03	-6.751E-04
<i>fepG</i>	6.297E-03	6.297E-03	8.691E-03	-6.777E-04
<i>yeiR</i>	4.576E-02	4.576E-02	9.001E-03	-6.785E-04
<i>dmsD</i>	2.567E-02	2.567E-02	8.744E-03	-6.788E-04
<i>ycgM</i>	4.024E-02	4.024E-02	1.006E-02	-6.820E-04

<i>manX</i>	1.848E-02	1.848E-02	8.692E-03	-6.826E-04
<i>sbcD</i>	1.073E-02	1.073E-02	8.623E-03	-6.835E-04
<i>recN</i>	3.972E-02	3.972E-02	8.613E-03	-6.836E-04
<i>lpxL</i>	2.800E-02	2.800E-02	8.768E-03	-6.836E-04
<i>murA</i>	1.357E-02	1.357E-02	8.624E-03	-6.845E-04
<i>folA</i>	1.572E-02	1.572E-02	8.679E-03	-6.850E-04
<i>rffH</i>	3.745E-02	3.745E-02	8.963E-03	-6.927E-04
<i>yhgN</i>	4.160E-02	4.160E-02	8.851E-03	-6.995E-04
<i>yceM</i>	3.034E-02	3.034E-02	8.900E-03	-7.041E-04
<i>hemL</i>	7.194E-03	7.194E-03	9.045E-03	-7.124E-04
<i>flhA</i>	4.436E-02	4.436E-02	9.048E-03	-7.140E-04
<i>kdpE</i>	2.007E-03	2.007E-03	8.998E-03	-7.142E-04
<i>ispD</i>	2.697E-02	2.697E-02	9.616E-03	-7.158E-04
<i>trxB</i>	2.630E-02	2.630E-02	9.545E-03	-7.171E-04
<i>ulaF</i>	3.993E-03	3.993E-03	9.098E-03	-7.197E-04
<i>murC</i>	4.300E-02	4.300E-02	9.090E-03	-7.214E-04
<i>thrA</i>	1.680E-03	1.680E-03	9.224E-03	-7.283E-04
<i>leuD</i>	1.181E-02	1.181E-02	9.382E-03	-7.287E-04
<i>glxK</i>	1.938E-03	1.938E-03	9.334E-03	-7.359E-04
<i>cyoB</i>	3.842E-02	3.842E-02	9.630E-03	-7.395E-04
<i>yeiG</i>	5.264E-03	5.264E-03	9.318E-03	-7.395E-04
<i>yihI</i>	2.743E-03	2.743E-03	9.407E-03	-7.466E-04
<i>ycfP</i>	1.921E-03	1.921E-03	9.424E-03	-7.479E-04
<i>yraK</i>	1.720E-02	1.720E-02	9.445E-03	-7.486E-04
<i>nirC</i>	5.452E-04	5.452E-04	9.438E-03	-7.490E-04
<i>ldcC</i>	5.274E-03	5.274E-03	9.474E-03	-7.519E-04
<i>cpxR</i>	6.463E-03	6.463E-03	9.543E-03	-7.563E-04
<i>dksA</i>	2.727E-02	2.727E-02	9.542E-03	-7.573E-04
<i>luxS</i>	1.147E-02	1.147E-02	9.787E-03	-7.616E-04
<i>garL</i>	1.625E-02	1.625E-02	1.007E-02	-7.701E-04
<i>cydB</i>	1.684E-02	1.684E-02	9.729E-03	-7.722E-04
<i>rlmJ</i>	5.797E-03	5.797E-03	9.767E-03	-7.751E-04
<i>birA</i>	4.965E-04	4.965E-04	9.791E-03	-7.770E-04
<i>yeaH</i>	4.730E-03	4.730E-03	9.820E-03	-7.794E-04
<i>yegK</i>	6.183E-03	6.183E-03	1.024E-02	-7.857E-04
<i>nusG</i>	3.707E-03	3.707E-03	1.017E-02	-7.888E-04
<i>argS</i>	2.307E-02	2.307E-02	9.983E-03	-7.914E-04
<i>accA</i>	2.566E-03	2.566E-03	1.018E-02	-8.067E-04
<i>hybC</i>	3.187E-03	3.187E-03	1.056E-02	-8.138E-04
<i>fecI</i>	2.219E-02	2.219E-02	1.027E-02	-8.149E-04
<i>lsrA</i>	4.514E-02	4.514E-02	1.031E-02	-8.157E-04
<i>ompN</i>	3.284E-04	3.284E-04	1.028E-02	-8.158E-04

<i>paaK</i>	1.835E-03	1.835E-03	1.046E-02	-8.261E-04
<i>bgIG</i>	1.272E-02	1.272E-02	1.046E-02	-8.292E-04
<i>sufB</i>	3.345E-03	3.345E-03	1.060E-02	-8.304E-04
<i>yhbS</i>	1.575E-03	1.575E-03	1.053E-02	-8.358E-04
<i>yahG</i>	1.708E-02	1.708E-02	1.070E-02	-8.423E-04
<i>rihB</i>	2.573E-02	2.573E-02	1.064E-02	-8.441E-04
<i>zwf</i>	1.322E-02	1.322E-02	1.129E-02	-8.459E-04
<i>yjgR</i>	4.466E-02	4.466E-02	1.070E-02	-8.480E-04
<i>eutR</i>	8.383E-03	8.383E-03	1.084E-02	-8.515E-04
<i>fecR</i>	1.163E-03	1.163E-03	1.077E-02	-8.546E-04
<i>ybbP</i>	3.523E-02	3.523E-02	1.080E-02	-8.572E-04
<i>cutC</i>	4.937E-04	4.937E-04	1.097E-02	-8.603E-04
<i>ecpA</i>	1.857E-02	1.857E-02	1.094E-02	-8.648E-04
<i>trml</i>	3.860E-04	3.860E-04	1.097E-02	-8.697E-04
<i>zur</i>	3.323E-02	3.323E-02	1.100E-02	-8.713E-04
<i>eutG</i>	5.549E-03	5.549E-03	1.111E-02	-8.749E-04
<i>dacC</i>	3.998E-02	3.998E-02	1.188E-02	-8.787E-04
<i>minD</i>	2.495E-03	2.495E-03	1.140E-02	-8.829E-04
<i>manZ</i>	1.863E-02	1.863E-02	1.124E-02	-8.880E-04
<i>rseA</i>	2.945E-02	2.945E-02	1.141E-02	-8.914E-04
<i>qseB</i>	4.996E-02	4.996E-02	1.275E-02	-8.994E-04
<i>elfA</i>	2.783E-02	2.783E-02	1.134E-02	-8.997E-04
<i>mukB</i>	1.053E-02	1.053E-02	1.139E-02	-9.041E-04
<i>lacZ</i>	1.057E-02	1.057E-02	1.144E-02	-9.069E-04
<i>yfaD</i>	2.418E-02	2.418E-02	1.220E-02	-9.227E-04
<i>proS</i>	1.178E-02	1.178E-02	1.164E-02	-9.237E-04
<i>eutH</i>	1.150E-02	1.150E-02	1.214E-02	-9.249E-04
<i>lsrF</i>	1.717E-04	1.717E-04	1.218E-02	-9.313E-04
<i>yjbR</i>	5.250E-03	5.250E-03	1.185E-02	-9.405E-04
<i>yfdV</i>	6.354E-03	6.354E-03	1.204E-02	-9.553E-04
<i>fdx</i>	7.228E-03	7.228E-03	1.228E-02	-9.742E-04
<i>yfcJ</i>	2.541E-02	2.541E-02	1.233E-02	-9.770E-04
<i>baeS</i>	2.404E-03	2.404E-03	1.241E-02	-9.805E-04
<i>ychH</i>	3.904E-05	3.904E-05	1.254E-02	-9.809E-04
<i>yfjW</i>	1.680E-02	1.680E-02	1.249E-02	-9.897E-04
<i>ybcN</i>	1.120E-02	1.120E-02	1.253E-02	-9.906E-04
<i>yhbV</i>	3.658E-04	3.658E-04	1.255E-02	-9.910E-04
<i>yqeG</i>	2.481E-02	2.481E-02	1.333E-02	-9.910E-04
<i>hsIO</i>	4.424E-03	4.424E-03	1.263E-02	-9.918E-04
<i>ydcS</i>	8.399E-04	8.399E-04	1.254E-02	-9.918E-04
<i>lamB</i>	1.431E-03	1.431E-03	1.254E-02	-9.927E-04
<i>rcsC</i>	1.473E-02	1.473E-02	1.293E-02	-9.932E-04

<i>cdsA</i>	1.540E-02	1.540E-02	1.286E-02	-9.993E-04
<i>ycjQ</i>	3.138E-02	3.138E-02	1.273E-02	-1.002E-03
<i>ydeE</i>	4.020E-02	4.020E-02	1.545E-02	-1.002E-03
<i>ispF</i>	8.037E-03	8.037E-03	1.265E-02	-1.004E-03
<i>wzzE</i>	1.817E-02	1.817E-02	1.268E-02	-1.005E-03
<i>envY</i>	2.024E-02	2.024E-02	1.268E-02	-1.005E-03
<i>yibA</i>	2.599E-02	2.599E-02	1.598E-02	-1.009E-03
<i>pssA</i>	6.205E-03	6.205E-03	1.295E-02	-1.011E-03
<i>trkA</i>	4.790E-02	4.790E-02	1.290E-02	-1.017E-03
<i>guaA</i>	8.216E-04	8.216E-04	1.281E-02	-1.017E-03
<i>agp</i>	2.372E-02	2.372E-02	1.291E-02	-1.022E-03
<i>narQ</i>	9.892E-03	9.892E-03	1.291E-02	-1.022E-03
<i>mepA</i>	3.782E-02	3.782E-02	1.328E-02	-1.051E-03
<i>yehP</i>	3.423E-02	3.423E-02	1.371E-02	-1.063E-03
<i>dapF</i>	2.353E-02	2.353E-02	1.369E-02	-1.063E-03
<i>typA</i>	2.590E-02	2.590E-02	1.369E-02	-1.064E-03
<i>ynjD</i>	2.850E-02	2.850E-02	1.423E-02	-1.075E-03
<i>mepM</i>	1.668E-02	1.668E-02	1.356E-02	-1.076E-03
<i>yejM</i>	5.317E-03	5.317E-03	1.413E-02	-1.081E-03
<i>ppdA</i>	2.142E-02	2.142E-02	1.371E-02	-1.088E-03
<i>dkgB</i>	3.955E-03	3.955E-03	1.434E-02	-1.091E-03
<i>glgP</i>	4.201E-02	4.201E-02	1.597E-02	-1.098E-03
<i>intS</i>	9.645E-03	9.645E-03	1.390E-02	-1.102E-03
<i>hdeA</i>	3.729E-02	3.729E-02	1.514E-02	-1.106E-03
<i>pgl</i>	9.908E-04	9.908E-04	1.396E-02	-1.107E-03
<i>tus</i>	2.399E-03	2.399E-03	1.458E-02	-1.109E-03
<i>sucC</i>	2.385E-02	2.385E-02	1.409E-02	-1.111E-03
<i>ymfM</i>	4.874E-02	4.874E-02	1.412E-02	-1.118E-03
<i>cysA</i>	2.468E-02	2.468E-02	1.425E-02	-1.131E-03
<i>ygfK</i>	4.191E-02	4.191E-02	1.490E-02	-1.145E-03
<i>ychO</i>	4.190E-02	4.190E-02	1.470E-02	-1.154E-03
<i>apaG</i>	1.141E-02	1.141E-02	1.528E-02	-1.154E-03
<i>dcd</i>	3.173E-03	3.173E-03	1.461E-02	-1.156E-03
<i>fldA</i>	9.318E-03	9.318E-03	1.553E-02	-1.164E-03
<i>pgaA</i>	4.425E-02	4.425E-02	1.582E-02	-1.168E-03
<i>ftsE</i>	1.252E-02	1.252E-02	1.480E-02	-1.174E-03
<i>pagP</i>	1.883E-02	1.883E-02	1.509E-02	-1.176E-03
<i>ebgA</i>	1.966E-02	1.966E-02	1.488E-02	-1.181E-03
<i>ftsY</i>	4.615E-02	4.615E-02	1.493E-02	-1.185E-03
<i>hyaB</i>	9.098E-03	9.098E-03	1.499E-02	-1.189E-03
<i>psuT</i>	2.368E-03	2.368E-03	1.531E-02	-1.209E-03
<i>moaD</i>	2.598E-03	2.598E-03	1.549E-02	-1.210E-03

<i>frwD</i>	2.471E-02	2.471E-02	1.531E-02	-1.215E-03
<i>vsr</i>	7.157E-03	7.157E-03	1.601E-02	-1.221E-03
<i>yciH</i>	4.663E-02	4.663E-02	1.652E-02	-1.222E-03
<i>yjdJ</i>	3.417E-02	3.417E-02	1.544E-02	-1.225E-03
<i>yjiL</i>	1.176E-02	1.176E-02	1.545E-02	-1.227E-03
<i>uidC</i>	9.480E-03	9.480E-03	1.572E-02	-1.235E-03
<i>obgE</i>	3.959E-02	3.959E-02	1.904E-02	-1.237E-03
<i>ygiF</i>	4.436E-02	4.436E-02	1.595E-02	-1.253E-03
<i>ydiK</i>	2.348E-02	2.348E-02	1.618E-02	-1.253E-03
<i>frr</i>	1.880E-02	1.880E-02	1.621E-02	-1.256E-03
<i>nadE</i>	8.268E-03	8.268E-03	1.670E-02	-1.266E-03
<i>csdA</i>	2.042E-02	2.042E-02	1.607E-02	-1.272E-03
<i>ybaA</i>	4.340E-02	4.340E-02	1.748E-02	-1.273E-03
<i>leuE</i>	2.000E-02	2.000E-02	1.650E-02	-1.285E-03
<i>parC</i>	1.132E-02	1.132E-02	1.697E-02	-1.294E-03
<i>pgpA</i>	2.059E-04	2.059E-04	1.719E-02	-1.306E-03
<i>thiQ</i>	1.821E-02	1.821E-02	1.666E-02	-1.315E-03
<i>ygiB</i>	4.550E-02	4.550E-02	1.687E-02	-1.319E-03
<i>ptrA</i>	1.773E-02	1.773E-02	1.677E-02	-1.325E-03
<i>lolB</i>	7.102E-03	7.102E-03	1.802E-02	-1.330E-03
<i>phnD</i>	3.086E-03	3.086E-03	1.701E-02	-1.338E-03
<i>yggE</i>	2.506E-02	2.506E-02	1.768E-02	-1.338E-03
<i>araE</i>	3.147E-02	3.147E-02	1.711E-02	-1.357E-03
<i>yfjJ</i>	1.472E-02	1.472E-02	1.710E-02	-1.357E-03
<i>priB</i>	2.964E-02	2.964E-02	1.818E-02	-1.359E-03
<i>ybiH</i>	7.004E-04	7.004E-04	1.729E-02	-1.371E-03
<i>trkH</i>	3.850E-04	3.850E-04	1.734E-02	-1.373E-03
<i>rsmE</i>	9.641E-03	9.641E-03	1.751E-02	-1.390E-03
<i>icd</i>	3.057E-02	3.057E-02	1.809E-02	-1.392E-03
<i>tatC</i>	1.242E-03	1.242E-03	1.796E-02	-1.394E-03
<i>dppA</i>	2.346E-02	2.346E-02	1.819E-02	-1.395E-03
<i>trxC</i>	2.224E-03	2.224E-03	1.813E-02	-1.396E-03
<i>ymfJ</i>	4.087E-02	4.087E-02	1.789E-02	-1.398E-03
<i>hdhA</i>	2.008E-02	2.008E-02	1.830E-02	-1.402E-03
<i>yodB</i>	1.236E-02	1.236E-02	1.911E-02	-1.408E-03
<i>gdhA</i>	1.677E-03	1.677E-03	1.777E-02	-1.410E-03
<i>tehA</i>	1.352E-03	1.352E-03	1.797E-02	-1.415E-03
<i>rihC</i>	2.417E-02	2.417E-02	1.904E-02	-1.415E-03
<i>fabF</i>	2.392E-02	2.392E-02	2.013E-02	-1.417E-03
<i>ygiZ</i>	1.589E-02	1.589E-02	1.903E-02	-1.418E-03
<i>sdaA</i>	3.315E-02	3.315E-02	1.945E-02	-1.420E-03
<i>clsC</i>	1.741E-02	1.741E-02	1.802E-02	-1.422E-03

<i>selD</i>	1.968E-02	1.968E-02	1.961E-02	-1.429E-03
<i>yrdA</i>	3.722E-03	3.722E-03	1.932E-02	-1.435E-03
<i>arsC</i>	3.425E-03	3.425E-03	1.832E-02	-1.438E-03
<i>era</i>	1.188E-03	1.188E-03	1.831E-02	-1.448E-03
<i>ycgV</i>	3.987E-02	3.987E-02	2.024E-02	-1.463E-03
<i>feaB</i>	2.670E-02	2.670E-02	1.928E-02	-1.478E-03
<i>sfnD</i>	8.377E-03	8.377E-03	1.874E-02	-1.481E-03
<i>yjjP</i>	1.513E-02	1.513E-02	1.943E-02	-1.485E-03
<i>casA</i>	1.741E-02	1.741E-02	1.889E-02	-1.496E-03
<i>ccmC</i>	2.266E-02	2.266E-02	1.897E-02	-1.501E-03
<i>ygjV</i>	4.640E-02	4.640E-02	2.070E-02	-1.501E-03
<i>aroC</i>	2.023E-03	2.023E-03	1.952E-02	-1.501E-03
<i>yneF</i>	1.221E-02	1.221E-02	2.104E-02	-1.518E-03
<i>yddG</i>	7.777E-03	7.777E-03	2.191E-02	-1.519E-03
<i>msyB</i>	4.691E-02	4.691E-02	1.939E-02	-1.532E-03
<i>tdcA</i>	2.329E-02	2.329E-02	1.981E-02	-1.539E-03
<i>tynA</i>	3.041E-02	3.041E-02	1.941E-02	-1.540E-03
<i>gmhB</i>	1.037E-02	1.037E-02	2.006E-02	-1.541E-03
<i>fucP</i>	1.739E-02	1.739E-02	2.012E-02	-1.541E-03
<i>yfgO</i>	7.556E-03	7.556E-03	2.012E-02	-1.544E-03
<i>eutL</i>	3.231E-03	3.231E-03	2.088E-02	-1.546E-03
<i>speC</i>	1.082E-03	1.082E-03	2.170E-02	-1.556E-03
<i>ycaP</i>	6.696E-03	6.696E-03	1.980E-02	-1.568E-03
<i>malE</i>	1.230E-03	1.230E-03	2.018E-02	-1.572E-03
<i>edd</i>	4.031E-03	4.031E-03	2.088E-02	-1.581E-03
<i>pphA</i>	1.407E-02	1.407E-02	2.028E-02	-1.585E-03
<i>uidR</i>	7.493E-03	7.493E-03	2.037E-02	-1.586E-03
<i>tesB</i>	3.084E-02	3.084E-02	2.045E-02	-1.592E-03
<i>amiA</i>	2.179E-02	2.179E-02	2.088E-02	-1.595E-03
<i>arfA</i>	1.490E-02	1.490E-02	2.045E-02	-1.606E-03
<i>pgsA</i>	1.503E-02	1.503E-02	2.139E-02	-1.606E-03
<i>tolC</i>	1.813E-02	1.813E-02	2.041E-02	-1.618E-03
<i>rbfA</i>	4.075E-02	4.075E-02	2.040E-02	-1.619E-03
<i>rnc</i>	5.785E-03	5.785E-03	2.055E-02	-1.625E-03
<i>tnaA</i>	5.685E-03	5.685E-03	2.057E-02	-1.630E-03
<i>tusD</i>	1.619E-02	1.619E-02	2.082E-02	-1.640E-03
<i>murJ</i>	9.220E-03	9.220E-03	2.224E-02	-1.643E-03
<i>ymfA</i>	4.176E-02	4.176E-02	2.215E-02	-1.645E-03
<i>narU</i>	3.465E-02	3.465E-02	2.376E-02	-1.659E-03
<i>iceT</i>	1.591E-02	1.591E-02	2.099E-02	-1.664E-03
<i>rhmD</i>	6.210E-05	6.210E-05	2.117E-02	-1.673E-03
<i>purK</i>	4.291E-02	4.291E-02	2.165E-02	-1.680E-03

<i>yrbG</i>	4.376E-02	4.376E-02	2.165E-02	-1.693E-03
<i>rplK</i>	1.302E-02	1.302E-02	2.306E-02	-1.694E-03
<i>pgaC</i>	3.758E-02	3.758E-02	2.289E-02	-1.694E-03
<i>htpG</i>	7.395E-04	7.395E-04	2.246E-02	-1.698E-03
<i>msrA</i>	2.930E-03	2.930E-03	2.148E-02	-1.699E-03
<i>yfcO</i>	1.669E-03	1.669E-03	2.268E-02	-1.702E-03
<i>infC</i>	2.270E-03	2.270E-03	2.232E-02	-1.706E-03
<i>yciW</i>	1.640E-02	1.640E-02	2.385E-02	-1.716E-03
<i>yadK</i>	3.071E-03	3.071E-03	2.170E-02	-1.717E-03
<i>gltF</i>	1.474E-02	1.474E-02	2.169E-02	-1.721E-03
<i>yqcE</i>	1.290E-02	1.290E-02	2.265E-02	-1.730E-03
<i>gntX</i>	4.624E-02	4.624E-02	2.210E-02	-1.736E-03
<i>bepA</i>	1.631E-02	1.631E-02	2.280E-02	-1.745E-03
<i>ycjP</i>	6.513E-03	6.513E-03	2.230E-02	-1.747E-03
<i>elaD</i>	3.260E-02	3.260E-02	2.418E-02	-1.751E-03
<i>lysU</i>	2.103E-02	2.103E-02	2.251E-02	-1.766E-03
<i>rplE</i>	4.301E-02	4.301E-02	2.268E-02	-1.766E-03
<i>cdd</i>	2.281E-02	2.281E-02	2.571E-02	-1.767E-03
<i>yjjB</i>	2.563E-02	2.563E-02	2.263E-02	-1.777E-03
<i>pspE</i>	2.849E-03	2.849E-03	2.271E-02	-1.777E-03
<i>ssuD</i>	5.668E-03	5.668E-03	2.428E-02	-1.780E-03
<i>cynX</i>	4.264E-03	4.264E-03	2.269E-02	-1.787E-03
<i>dppD</i>	8.391E-03	8.391E-03	2.258E-02	-1.790E-03
<i>ygiV</i>	3.694E-03	3.694E-03	2.261E-02	-1.794E-03
<i>yidX</i>	1.393E-04	1.393E-04	2.370E-02	-1.802E-03
<i>yjjG</i>	1.011E-02	1.011E-02	2.458E-02	-1.805E-03
<i>kduD</i>	2.662E-02	2.662E-02	2.485E-02	-1.812E-03
<i>pyrH</i>	1.040E-02	1.040E-02	2.332E-02	-1.830E-03
<i>ulaE</i>	4.329E-03	4.329E-03	2.316E-02	-1.834E-03
<i>xerC</i>	2.936E-03	2.936E-03	2.363E-02	-1.836E-03
<i>ycbU</i>	1.001E-02	1.001E-02	2.330E-02	-1.844E-03
<i>xdhC</i>	2.527E-02	2.527E-02	2.353E-02	-1.856E-03
<i>rlmH</i>	1.176E-02	1.176E-02	2.417E-02	-1.859E-03
<i>sthA</i>	5.469E-03	5.469E-03	2.521E-02	-1.878E-03
<i>ttdR</i>	1.611E-02	1.611E-02	2.389E-02	-1.895E-03
<i>yfjX</i>	3.748E-02	3.748E-02	2.392E-02	-1.897E-03
<i>tatA</i>	3.639E-03	3.639E-03	2.493E-02	-1.900E-03
<i>yniA</i>	1.993E-02	1.993E-02	2.496E-02	-1.907E-03
<i>gpr</i>	3.234E-02	3.234E-02	2.455E-02	-1.916E-03
<i>sdhB</i>	4.381E-02	4.381E-02	2.536E-02	-1.945E-03
<i>argA</i>	6.002E-03	6.002E-03	2.556E-02	-1.953E-03
<i>dppC</i>	7.862E-04	7.862E-04	2.471E-02	-1.957E-03

<i>dcuR</i>	4.317E-02	4.317E-02	2.794E-02	-1.961E-03
<i>IgoR</i>	1.168E-02	1.168E-02	2.505E-02	-1.987E-03
<i>hchA</i>	1.430E-02	1.430E-02	2.618E-02	-1.988E-03
<i>ubiJ</i>	2.030E-03	2.030E-03	2.755E-02	-2.014E-03
<i>hyaC</i>	1.714E-04	1.714E-04	2.748E-02	-2.040E-03
<i>puuE</i>	7.760E-03	7.760E-03	2.660E-02	-2.064E-03
<i>rimO</i>	1.526E-02	1.526E-02	2.812E-02	-2.067E-03
<i>fadD</i>	3.976E-03	3.976E-03	2.623E-02	-2.074E-03
<i>rppH</i>	6.556E-03	6.556E-03	2.752E-02	-2.079E-03
<i>trmH</i>	1.628E-02	1.628E-02	2.717E-02	-2.088E-03
<i>baeR</i>	1.035E-02	1.035E-02	2.763E-02	-2.088E-03
<i>ascF</i>	5.190E-03	5.190E-03	2.760E-02	-2.096E-03
<i>sseB</i>	3.382E-02	3.382E-02	2.678E-02	-2.101E-03
<i>mutH</i>	1.667E-02	1.667E-02	2.920E-02	-2.107E-03
<i>yojl</i>	6.774E-04	6.774E-04	2.656E-02	-2.108E-03
<i>acrS</i>	1.199E-02	1.199E-02	3.008E-02	-2.138E-03
<i>rarD</i>	3.539E-02	3.539E-02	2.827E-02	-2.145E-03
<i>polA</i>	1.680E-02	1.680E-02	2.968E-02	-2.146E-03
<i>umuD</i>	7.262E-03	7.262E-03	3.049E-02	-2.146E-03
<i>lysS</i>	3.315E-04	3.315E-04	2.786E-02	-2.160E-03
<i>hybD</i>	1.541E-05	1.541E-05	2.854E-02	-2.162E-03
<i>narW</i>	4.437E-03	4.437E-03	2.776E-02	-2.163E-03
<i>yfiH</i>	3.022E-02	3.022E-02	2.737E-02	-2.172E-03
<i>tonB</i>	3.048E-02	3.048E-02	2.744E-02	-2.178E-03
<i>yihX</i>	3.505E-02	3.505E-02	2.785E-02	-2.182E-03
<i>rplS</i>	6.747E-03	6.747E-03	2.774E-02	-2.200E-03
<i>wecD</i>	1.558E-02	1.558E-02	2.790E-02	-2.214E-03
<i>nemR</i>	2.686E-03	2.686E-03	2.796E-02	-2.218E-03
<i>ynjB</i>	2.493E-02	2.493E-02	2.810E-02	-2.230E-03
<i>iscU</i>	3.754E-02	3.754E-02	2.836E-02	-2.250E-03
<i>fabZ</i>	3.660E-02	3.660E-02	2.857E-02	-2.260E-03
<i>bioA</i>	3.093E-02	3.093E-02	2.859E-02	-2.268E-03
<i>ybhA</i>	2.088E-02	2.088E-02	2.890E-02	-2.278E-03
<i>hcaF</i>	3.457E-03	3.457E-03	2.980E-02	-2.296E-03
<i>rhaD</i>	1.170E-03	1.170E-03	2.999E-02	-2.298E-03
<i>mltB</i>	4.887E-02	4.887E-02	3.062E-02	-2.303E-03
<i>bluR</i>	1.409E-02	1.409E-02	2.996E-02	-2.306E-03
<i>artJ</i>	8.794E-04	8.794E-04	3.011E-02	-2.307E-03
<i>ribB</i>	3.251E-02	3.251E-02	2.929E-02	-2.325E-03
<i>recD</i>	1.999E-02	1.999E-02	3.174E-02	-2.334E-03
<i>rml</i>	1.948E-04	1.948E-04	3.014E-02	-2.336E-03
<i>serS</i>	3.066E-03	3.066E-03	2.952E-02	-2.341E-03

<i>smg</i>	1.008E-03	1.008E-03	2.957E-02	-2.344E-03
<i>nudG</i>	2.910E-02	2.910E-02	2.975E-02	-2.352E-03
<i>aes</i>	1.818E-02	1.818E-02	3.254E-02	-2.367E-03
<i>napF</i>	9.054E-03	9.054E-03	3.035E-02	-2.377E-03
<i>ydcD</i>	1.921E-02	1.921E-02	3.374E-02	-2.382E-03
<i>metK</i>	2.428E-02	2.428E-02	3.156E-02	-2.393E-03
<i>nlpE</i>	2.445E-02	2.445E-02	3.094E-02	-2.396E-03
<i>trmA</i>	4.599E-02	4.599E-02	3.189E-02	-2.402E-03
<i>fnr</i>	3.539E-03	3.539E-03	3.199E-02	-2.407E-03
<i>hyfl</i>	2.450E-02	2.450E-02	3.268E-02	-2.419E-03
<i>ftsN</i>	3.249E-02	3.249E-02	3.103E-02	-2.421E-03
<i>yhdX</i>	1.665E-02	1.665E-02	3.108E-02	-2.422E-03
<i>ygdG</i>	8.278E-03	8.278E-03	3.479E-02	-2.425E-03
<i>dctA</i>	1.392E-02	1.392E-02	3.329E-02	-2.431E-03
<i>purA</i>	1.147E-02	1.147E-02	3.077E-02	-2.437E-03
<i>ydhC</i>	1.797E-03	1.797E-03	3.271E-02	-2.447E-03
<i>def</i>	3.468E-02	3.468E-02	3.110E-02	-2.451E-03
<i>ulaC</i>	4.555E-02	4.555E-02	3.309E-02	-2.464E-03
<i>yfhG</i>	1.773E-02	1.773E-02	3.334E-02	-2.470E-03
<i>racR</i>	3.968E-02	3.968E-02	3.188E-02	-2.485E-03
<i>yfeS</i>	2.806E-03	2.806E-03	3.160E-02	-2.487E-03
<i>ompX</i>	3.463E-02	3.463E-02	3.430E-02	-2.488E-03
<i>eutA</i>	1.192E-02	1.192E-02	3.225E-02	-2.492E-03
<i>yjgN</i>	3.790E-02	3.790E-02	3.456E-02	-2.507E-03
<i>ndh</i>	2.567E-02	2.567E-02	3.905E-02	-2.529E-03
<i>acrA</i>	1.743E-02	1.743E-02	3.255E-02	-2.533E-03
<i>ygjQ</i>	3.749E-03	3.749E-03	3.367E-02	-2.542E-03
<i>nanC</i>	3.501E-02	3.501E-02	3.292E-02	-2.547E-03
<i>IspA</i>	1.694E-04	1.694E-04	3.296E-02	-2.549E-03
<i>ampC</i>	4.582E-02	4.582E-02	3.216E-02	-2.553E-03
<i>yeiE</i>	2.327E-02	2.327E-02	3.413E-02	-2.569E-03
<i>prpB</i>	9.157E-04	9.157E-04	3.274E-02	-2.598E-03
<i>metN</i>	4.521E-02	4.521E-02	3.432E-02	-2.625E-03
<i>caiT</i>	1.147E-02	1.147E-02	3.415E-02	-2.642E-03
<i>gspF</i>	1.544E-02	1.544E-02	3.356E-02	-2.655E-03
<i>pspA</i>	4.924E-02	4.924E-02	3.445E-02	-2.663E-03
<i>mtfA</i>	1.294E-02	1.294E-02	3.422E-02	-2.665E-03
<i>ycaD</i>	6.286E-03	6.286E-03	3.545E-02	-2.670E-03
<i>ygaH</i>	9.637E-03	9.637E-03	3.626E-02	-2.674E-03
<i>yadI</i>	1.215E-02	1.215E-02	3.378E-02	-2.676E-03
<i>rtn</i>	1.584E-02	1.584E-02	3.406E-02	-2.678E-03
<i>yjdM</i>	1.368E-03	1.368E-03	3.691E-02	-2.702E-03

<i>mioC</i>	2.010E-02	2.010E-02	3.726E-02	-2.722E-03
<i>dgoD</i>	9.232E-04	9.232E-04	3.485E-02	-2.752E-03
<i>arnC</i>	3.767E-02	3.767E-02	3.492E-02	-2.754E-03
<i>gadC</i>	4.723E-02	4.723E-02	3.925E-02	-2.774E-03
<i>ybjS</i>	2.191E-02	2.191E-02	3.514E-02	-2.779E-03
<i>rpsM</i>	1.007E-02	1.007E-02	3.523E-02	-2.788E-03
<i>waaB</i>	1.368E-02	1.368E-02	3.657E-02	-2.789E-03
<i>yliE</i>	4.893E-03	4.893E-03	3.682E-02	-2.792E-03
<i>yciC</i>	3.223E-02	3.223E-02	3.589E-02	-2.794E-03
<i>mug</i>	1.121E-02	1.121E-02	3.528E-02	-2.797E-03
<i>xanP</i>	1.226E-02	1.226E-02	3.528E-02	-2.798E-03
<i>yiaU</i>	2.225E-02	2.225E-02	3.766E-02	-2.804E-03
<i>yfcl</i>	7.109E-03	7.109E-03	3.583E-02	-2.841E-03
<i>bdcR</i>	7.802E-03	7.802E-03	3.695E-02	-2.872E-03
<i>yegJ</i>	2.562E-02	2.562E-02	3.856E-02	-2.886E-03
<i>yihL</i>	6.323E-05	6.323E-05	3.873E-02	-2.887E-03
<i>aroP</i>	2.534E-02	2.534E-02	3.653E-02	-2.895E-03
<i>nudL</i>	6.915E-03	6.915E-03	3.745E-02	-2.912E-03
<i>rhaR</i>	2.603E-02	2.603E-02	4.999E-02	-2.916E-03
<i>malF</i>	9.692E-03	9.692E-03	4.111E-02	-2.923E-03
<i>srmB</i>	5.833E-03	5.833E-03	3.708E-02	-2.938E-03
<i>prmC</i>	3.276E-03	3.276E-03	4.082E-02	-2.959E-03
<i>fliF</i>	1.440E-02	1.440E-02	3.955E-02	-2.973E-03
<i>artP</i>	9.420E-03	9.420E-03	3.829E-02	-2.980E-03
<i>cyoE</i>	2.387E-03	2.387E-03	4.082E-02	-2.989E-03
<i>ydeP</i>	8.101E-03	8.101E-03	3.889E-02	-2.989E-03
<i>manY</i>	1.171E-02	1.171E-02	3.885E-02	-3.014E-03
<i>dsdX</i>	1.096E-03	1.096E-03	4.082E-02	-3.017E-03
<i>ahr</i>	2.679E-03	2.679E-03	3.863E-02	-3.031E-03
<i>ypeA</i>	1.018E-03	1.018E-03	3.847E-02	-3.038E-03
<i>metA</i>	1.652E-02	1.652E-02	4.172E-02	-3.043E-03
<i>frlA</i>	5.400E-03	5.400E-03	4.258E-02	-3.055E-03
<i>acpH</i>	2.485E-02	2.485E-02	4.104E-02	-3.075E-03
<i>yicI</i>	7.555E-03	7.555E-03	4.107E-02	-3.086E-03
<i>aroG</i>	2.204E-03	2.204E-03	3.968E-02	-3.107E-03
<i>torD</i>	4.992E-03	4.992E-03	3.930E-02	-3.114E-03
<i>ydcL</i>	4.011E-02	4.011E-02	4.385E-02	-3.121E-03
<i>rplO</i>	2.383E-02	2.383E-02	4.026E-02	-3.129E-03
<i>yeeE</i>	2.273E-02	2.273E-02	4.259E-02	-3.147E-03
<i>npr</i>	3.942E-02	3.942E-02	3.967E-02	-3.148E-03
<i>yigA</i>	2.629E-03	2.629E-03	4.296E-02	-3.151E-03
<i>ptsN</i>	6.145E-04	6.145E-04	4.117E-02	-3.154E-03

<i>hofN</i>	3.043E-02	3.043E-02	4.579E-02	-3.157E-03
<i>gntR</i>	2.326E-02	2.326E-02	4.324E-02	-3.175E-03
<i>moaB</i>	1.067E-02	1.067E-02	4.171E-02	-3.187E-03
<i>ynjF</i>	1.309E-03	1.309E-03	4.027E-02	-3.196E-03
<i>yqgA</i>	3.867E-02	3.867E-02	4.482E-02	-3.208E-03
<i>rhaS</i>	1.292E-02	1.292E-02	4.112E-02	-3.218E-03
<i>glnB</i>	8.879E-03	8.879E-03	4.496E-02	-3.230E-03
<i>tam</i>	1.071E-02	1.071E-02	4.110E-02	-3.237E-03
<i>ypfJ</i>	5.666E-03	5.666E-03	4.456E-02	-3.258E-03
<i>ypjD</i>	2.893E-02	2.893E-02	5.058E-02	-3.259E-03
<i>thiG</i>	4.745E-03	4.745E-03	4.485E-02	-3.275E-03
<i>yaiE</i>	2.738E-03	2.738E-03	4.558E-02	-3.290E-03
<i>oxyR</i>	2.330E-02	2.330E-02	4.176E-02	-3.299E-03
<i>ubiE</i>	2.567E-02	2.567E-02	4.541E-02	-3.300E-03
<i>viaA</i>	2.068E-02	2.068E-02	4.512E-02	-3.309E-03
<i>rcnA</i>	2.508E-02	2.508E-02	4.716E-02	-3.319E-03
<i>fliP</i>	4.969E-03	4.969E-03	4.344E-02	-3.321E-03
<i>yidF</i>	1.858E-02	1.858E-02	4.198E-02	-3.331E-03
<i>ygcE</i>	1.544E-02	1.544E-02	4.348E-02	-3.348E-03
<i>yail</i>	2.422E-03	2.422E-03	4.342E-02	-3.357E-03
<i>btuC</i>	3.290E-03	3.290E-03	4.393E-02	-3.357E-03
<i>rdgC</i>	1.219E-02	1.219E-02	4.667E-02	-3.390E-03
<i>rutF</i>	1.129E-03	1.129E-03	4.598E-02	-3.407E-03
<i>yadE</i>	3.590E-02	3.590E-02	4.419E-02	-3.430E-03
<i>gpt</i>	2.454E-02	2.454E-02	4.418E-02	-3.442E-03
<i>mutY</i>	1.245E-02	1.245E-02	4.534E-02	-3.450E-03
<i>fic</i>	5.993E-03	5.993E-03	4.536E-02	-3.456E-03
<i>otsB</i>	1.613E-02	1.613E-02	4.891E-02	-3.460E-03
<i>lldR</i>	1.589E-03	1.589E-03	4.900E-02	-3.464E-03
<i>metB</i>	6.611E-03	6.611E-03	4.657E-02	-3.493E-03
<i>sImA</i>	8.215E-03	8.215E-03	4.624E-02	-3.495E-03
<i>cysS</i>	8.087E-03	8.087E-03	4.631E-02	-3.515E-03
<i>tdcE</i>	1.982E-02	1.982E-02	4.703E-02	-3.515E-03
<i>kgtP</i>	3.057E-02	3.057E-02	4.654E-02	-3.517E-03
<i>dcuS</i>	2.079E-02	2.079E-02	4.544E-02	-3.555E-03
<i>uvrA</i>	1.505E-02	1.505E-02	4.651E-02	-3.566E-03
<i>pepN</i>	2.213E-03	2.213E-03	4.520E-02	-3.573E-03
<i>yidG</i>	1.992E-03	1.992E-03	4.645E-02	-3.579E-03
<i>mqo</i>	1.202E-02	1.202E-02	4.787E-02	-3.581E-03
<i>yfgH</i>	9.667E-03	9.667E-03	5.030E-02	-3.581E-03
<i>yggX</i>	3.086E-03	3.086E-03	4.884E-02	-3.610E-03
<i>yjbH</i>	4.849E-02	4.849E-02	7.416E-02	-3.615E-03

<i>rnlA</i>	8.237E-03	8.237E-03	4.582E-02	-3.628E-03
<i>yhbX</i>	5.656E-03	5.656E-03	4.766E-02	-3.644E-03
<i>yahC</i>	1.227E-02	1.227E-02	4.938E-02	-3.648E-03
<i>pitA</i>	2.827E-02	2.827E-02	4.606E-02	-3.653E-03
<i>ytfL</i>	7.659E-03	7.659E-03	4.938E-02	-3.656E-03
<i>rutB</i>	1.181E-02	1.181E-02	4.646E-02	-3.658E-03
<i>ybjM</i>	2.638E-02	2.638E-02	5.055E-02	-3.658E-03
<i>flu</i>	8.475E-03	8.475E-03	4.651E-02	-3.660E-03
<i>zupT</i>	6.737E-03	6.737E-03	4.733E-02	-3.669E-03
<i>yfdK</i>	2.071E-02	2.071E-02	4.855E-02	-3.682E-03
<i>dnaQ</i>	2.532E-05	2.532E-05	5.016E-02	-3.686E-03
<i>cadB</i>	3.398E-02	3.398E-02	4.804E-02	-3.690E-03
<i>rpoB</i>	3.524E-03	3.524E-03	4.680E-02	-3.695E-03
<i>ybjL</i>	3.059E-03	3.059E-03	5.320E-02	-3.701E-03
<i>nrdI</i>	4.455E-04	4.455E-04	4.764E-02	-3.721E-03
<i>trpS</i>	6.526E-03	6.526E-03	4.977E-02	-3.728E-03
<i>dsbA</i>	5.268E-03	5.268E-03	5.508E-02	-3.730E-03
<i>ftsZ</i>	3.233E-02	3.233E-02	4.755E-02	-3.730E-03
<i>mipA</i>	5.787E-03	5.787E-03	5.196E-02	-3.736E-03
<i>pgm</i>	1.356E-02	1.356E-02	5.152E-02	-3.750E-03
<i>mnmA</i>	5.787E-03	5.787E-03	5.081E-02	-3.752E-03
<i>rpsB</i>	6.940E-03	6.940E-03	4.789E-02	-3.754E-03
<i>atpF</i>	3.277E-02	3.277E-02	5.139E-02	-3.771E-03
<i>ymdB</i>	1.970E-02	1.970E-02	5.189E-02	-3.787E-03
<i>ycfQ</i>	1.156E-03	1.156E-03	5.003E-02	-3.788E-03
<i>aas</i>	1.848E-02	1.848E-02	5.020E-02	-3.788E-03
<i>hybO</i>	9.634E-03	9.634E-03	5.163E-02	-3.812E-03
<i>sdaB</i>	3.595E-02	3.595E-02	5.196E-02	-3.816E-03
<i>yigM</i>	1.807E-04	1.807E-04	4.829E-02	-3.824E-03
<i>yqfA</i>	4.508E-02	4.508E-02	5.342E-02	-3.827E-03
<i>yagL</i>	4.721E-02	4.721E-02	5.395E-02	-3.834E-03
<i>hemD</i>	1.673E-02	1.673E-02	5.668E-02	-3.852E-03
<i>narV</i>	4.078E-03	4.078E-03	5.337E-02	-3.933E-03
<i>ynfB</i>	1.327E-02	1.327E-02	5.509E-02	-3.955E-03
<i>yeaR</i>	3.122E-02	3.122E-02	5.532E-02	-3.966E-03
<i>caiE</i>	1.144E-03	1.144E-03	5.141E-02	-3.967E-03
<i>nuoL</i>	2.480E-02	2.480E-02	6.556E-02	-3.977E-03
<i>thyA</i>	4.813E-02	4.813E-02	5.766E-02	-3.985E-03
<i>nudK</i>	4.131E-02	4.131E-02	5.390E-02	-3.999E-03
<i>dtpD</i>	8.636E-03	8.636E-03	5.595E-02	-4.041E-03
<i>yfaQ</i>	2.141E-02	2.141E-02	5.377E-02	-4.043E-03
<i>yceJ</i>	1.738E-02	1.738E-02	5.496E-02	-4.061E-03

<i>yecR</i>	5.737E-03	5.737E-03	5.381E-02	-4.071E-03
<i>bglH</i>	8.897E-03	8.897E-03	5.484E-02	-4.075E-03
<i>fldB</i>	6.330E-03	6.330E-03	6.028E-02	-4.076E-03
<i>yciM</i>	4.145E-03	4.145E-03	5.325E-02	-4.079E-03
<i>IgoT</i>	2.959E-02	2.959E-02	5.154E-02	-4.080E-03
<i>torT</i>	5.290E-03	5.290E-03	5.185E-02	-4.112E-03
<i>phnK</i>	3.275E-03	3.275E-03	5.417E-02	-4.112E-03
<i>csgB</i>	2.138E-02	2.138E-02	5.597E-02	-4.112E-03
<i>ybeU</i>	1.034E-02	1.034E-02	5.558E-02	-4.143E-03
<i>dinF</i>	2.025E-02	2.025E-02	5.755E-02	-4.172E-03
<i>gcd</i>	8.324E-04	8.324E-04	5.306E-02	-4.176E-03
<i>exuT</i>	4.071E-03	4.071E-03	5.312E-02	-4.184E-03
<i>argO</i>	2.801E-02	2.801E-02	7.274E-02	-4.185E-03
<i>gpsA</i>	1.222E-03	1.222E-03	5.794E-02	-4.206E-03
<i>nuol</i>	1.001E-03	1.001E-03	5.806E-02	-4.231E-03
<i>nagE</i>	2.599E-03	2.599E-03	5.531E-02	-4.251E-03
<i>intF</i>	4.312E-03	4.312E-03	5.978E-02	-4.259E-03
<i>fadR</i>	2.680E-02	2.680E-02	6.346E-02	-4.275E-03
<i>yeal</i>	4.108E-02	4.108E-02	5.679E-02	-4.278E-03
<i>yieH</i>	7.762E-03	7.762E-03	6.293E-02	-4.299E-03
<i>citF</i>	1.735E-02	1.735E-02	5.893E-02	-4.301E-03
<i>htrE</i>	7.716E-04	7.716E-04	5.481E-02	-4.332E-03
<i>fimI</i>	6.847E-04	6.847E-04	5.688E-02	-4.368E-03
<i>yphD</i>	2.528E-03	2.528E-03	5.588E-02	-4.411E-03
<i>yfbV</i>	1.512E-03	1.512E-03	5.582E-02	-4.421E-03
<i>etk</i>	2.410E-02	2.410E-02	5.784E-02	-4.424E-03
<i>cyoC</i>	1.757E-03	1.757E-03	6.047E-02	-4.425E-03
<i>lldP</i>	9.428E-03	9.428E-03	6.680E-02	-4.438E-03
<i>chbR</i>	9.090E-05	9.090E-05	5.724E-02	-4.522E-03
<i>hycF</i>	4.493E-03	4.493E-03	6.020E-02	-4.527E-03
<i>yccT</i>	2.273E-03	2.273E-03	6.043E-02	-4.548E-03
<i>nhoA</i>	3.268E-03	3.268E-03	5.787E-02	-4.550E-03
<i>metE</i>	4.454E-02	4.454E-02	7.583E-02	-4.568E-03
<i>rfbC</i>	1.890E-02	1.890E-02	6.459E-02	-4.573E-03
<i>yebE</i>	9.448E-04	9.448E-04	6.056E-02	-4.587E-03
<i>stfQ</i>	2.978E-02	2.978E-02	5.932E-02	-4.596E-03
<i>rvuB</i>	2.752E-04	2.752E-04	6.127E-02	-4.611E-03
<i>ytfl</i>	2.143E-02	2.143E-02	6.050E-02	-4.618E-03
<i>kup</i>	2.128E-04	2.128E-04	6.636E-02	-4.620E-03
<i>cbtA</i>	7.485E-03	7.485E-03	6.491E-02	-4.642E-03
<i>truC</i>	3.848E-03	3.848E-03	6.057E-02	-4.648E-03
<i>yfaZ</i>	1.544E-03	1.544E-03	6.246E-02	-4.718E-03

<i>ada</i>	2.307E-03	2.307E-03	6.147E-02	-4.724E-03
<i>dcuA</i>	1.891E-02	1.891E-02	6.259E-02	-4.739E-03
<i>eutP</i>	4.302E-05	4.302E-05	6.260E-02	-4.749E-03
<i>entA</i>	3.997E-02	3.997E-02	6.949E-02	-4.753E-03
<i>argG</i>	4.888E-03	4.888E-03	6.514E-02	-4.753E-03
<i>yhbE</i>	1.482E-02	1.482E-02	6.427E-02	-4.757E-03
<i>aroE</i>	9.080E-03	9.080E-03	6.584E-02	-4.764E-03
<i>fepC</i>	2.142E-03	2.142E-03	6.329E-02	-4.774E-03
<i>narY</i>	4.551E-02	4.551E-02	6.686E-02	-4.797E-03
<i>sseA</i>	8.297E-03	8.297E-03	6.111E-02	-4.828E-03
<i>ydjG</i>	5.429E-03	5.429E-03	6.111E-02	-4.838E-03
<i>yifE</i>	1.399E-02	1.399E-02	6.676E-02	-4.848E-03
<i>yhcF</i>	3.558E-02	3.558E-02	7.055E-02	-4.849E-03
<i>yicN</i>	2.101E-03	2.101E-03	6.580E-02	-4.872E-03
<i>wcaM</i>	6.335E-03	6.335E-03	6.157E-02	-4.886E-03
<i>flgG</i>	4.229E-02	4.229E-02	6.829E-02	-4.925E-03
<i>eutM</i>	1.499E-02	1.499E-02	7.586E-02	-4.938E-03
<i>sufS</i>	5.967E-03	5.967E-03	7.310E-02	-4.957E-03
<i>holB</i>	2.993E-02	2.993E-02	6.599E-02	-4.963E-03
<i>setB</i>	2.871E-02	2.871E-02	7.271E-02	-4.972E-03
<i>emtA</i>	8.278E-03	8.278E-03	6.947E-02	-4.989E-03
<i>ygbJ</i>	2.040E-02	2.040E-02	7.187E-02	-5.007E-03
<i>pykF</i>	2.670E-02	2.670E-02	6.349E-02	-5.033E-03
<i>yaiS</i>	3.350E-02	3.350E-02	6.848E-02	-5.035E-03
<i>yfcG</i>	6.582E-03	6.582E-03	6.862E-02	-5.035E-03
<i>glnQ</i>	2.219E-03	2.219E-03	6.820E-02	-5.038E-03
<i>ftsH</i>	9.047E-05	9.047E-05	6.532E-02	-5.056E-03
<i>yfcA</i>	3.426E-03	3.426E-03	6.884E-02	-5.065E-03
<i>aphA</i>	4.995E-04	4.995E-04	6.865E-02	-5.066E-03
<i>ygiW</i>	1.622E-02	1.622E-02	6.443E-02	-5.076E-03
<i>rsxB</i>	2.334E-02	2.334E-02	7.491E-02	-5.088E-03
<i>oxc</i>	2.582E-03	2.582E-03	6.445E-02	-5.109E-03
<i>mreB</i>	2.490E-04	2.490E-04	6.922E-02	-5.128E-03
<i>yfjT</i>	4.280E-03	4.280E-03	6.724E-02	-5.143E-03
<i>yjhU</i>	5.660E-03	5.660E-03	7.604E-02	-5.179E-03
<i>ppiA</i>	8.884E-03	8.884E-03	7.463E-02	-5.189E-03
<i>smrA</i>	2.509E-03	2.509E-03	6.658E-02	-5.203E-03
<i>melR</i>	2.083E-02	2.083E-02	7.263E-02	-5.254E-03
<i>ydbH</i>	8.315E-03	8.315E-03	7.336E-02	-5.270E-03
<i>yqeA</i>	1.030E-02	1.030E-02	7.100E-02	-5.315E-03
<i>agaB</i>	4.851E-02	4.851E-02	7.145E-02	-5.319E-03
<i>rpsL</i>	2.103E-02	2.103E-02	7.626E-02	-5.322E-03

<i>asd</i>	5.573E-03	5.573E-03	6.969E-02	-5.328E-03
<i>yafX</i>	3.289E-02	3.289E-02	6.881E-02	-5.334E-03
<i>opgH</i>	4.477E-02	4.477E-02	7.818E-02	-5.339E-03
<i>napH</i>	1.132E-02	1.132E-02	6.941E-02	-5.344E-03
<i>ydaV</i>	1.440E-02	1.440E-02	7.566E-02	-5.345E-03
<i>xapR</i>	2.136E-02	2.136E-02	7.507E-02	-5.361E-03
<i>yhhS</i>	5.239E-04	5.239E-04	6.806E-02	-5.393E-03
<i>lsrR</i>	2.873E-03	2.873E-03	8.224E-02	-5.403E-03
<i>tag</i>	4.417E-03	4.417E-03	6.963E-02	-5.405E-03
<i>hsdR</i>	8.552E-03	8.552E-03	7.568E-02	-5.411E-03
<i>aroK</i>	1.168E-02	1.168E-02	7.219E-02	-5.509E-03
<i>ssuE</i>	3.253E-03	3.253E-03	7.359E-02	-5.510E-03
<i>ubiB</i>	1.333E-02	1.333E-02	7.619E-02	-5.514E-03
<i>gntT</i>	1.098E-02	1.098E-02	8.190E-02	-5.526E-03
<i>pnuC</i>	2.315E-02	2.315E-02	7.141E-02	-5.555E-03
<i>yhhT</i>	3.786E-02	3.786E-02	8.350E-02	-5.582E-03
<i>lptE</i>	2.844E-02	2.844E-02	7.534E-02	-5.583E-03
<i>yfdE</i>	1.094E-02	1.094E-02	7.788E-02	-5.608E-03
<i>ydjY</i>	6.003E-03	6.003E-03	8.022E-02	-5.620E-03
<i>srlB</i>	5.607E-03	5.607E-03	7.092E-02	-5.625E-03
<i>yhjX</i>	1.480E-02	1.480E-02	7.102E-02	-5.628E-03
<i>gabD</i>	1.767E-02	1.767E-02	8.752E-02	-5.639E-03
<i>yccU</i>	1.863E-03	1.863E-03	7.717E-02	-5.836E-03
<i>ynjl</i>	1.660E-02	1.660E-02	8.948E-02	-5.859E-03
<i>ycal</i>	3.042E-02	3.042E-02	8.027E-02	-5.871E-03
<i>uxaA</i>	4.212E-02	4.212E-02	8.599E-02	-5.943E-03
<i>znuB</i>	3.633E-02	3.633E-02	8.058E-02	-5.974E-03
<i>gatZ</i>	2.281E-02	2.281E-02	7.662E-02	-6.072E-03
<i>hisP</i>	6.444E-04	6.444E-04	8.301E-02	-6.073E-03
<i>accD</i>	1.368E-04	1.368E-04	7.847E-02	-6.082E-03
<i>rplB</i>	3.962E-03	3.962E-03	7.856E-02	-6.083E-03
<i>gsiD</i>	6.900E-03	6.900E-03	8.732E-02	-6.096E-03
<i>ytfF</i>	5.660E-03	5.660E-03	8.021E-02	-6.138E-03
<i>modB</i>	5.771E-03	5.771E-03	8.827E-02	-6.181E-03
<i>putP</i>	6.019E-04	6.019E-04	8.288E-02	-6.206E-03
<i>yjeM</i>	3.711E-03	3.711E-03	8.155E-02	-6.222E-03
<i>ygaM</i>	1.197E-02	1.197E-02	7.894E-02	-6.239E-03
<i>nac</i>	4.452E-02	4.452E-02	8.923E-02	-6.252E-03
<i>tdcC</i>	1.768E-02	1.768E-02	9.280E-02	-6.261E-03
<i>rspA</i>	2.501E-03	2.501E-03	8.239E-02	-6.261E-03
<i>yfeY</i>	6.819E-04	6.819E-04	8.874E-02	-6.324E-03
<i>murG</i>	3.784E-03	3.784E-03	9.064E-02	-6.374E-03

<i>rpsH</i>	4.118E-02	4.118E-02	9.100E-02	-6.399E-03
<i>yfjQ</i>	6.728E-03	6.728E-03	8.909E-02	-6.404E-03
<i>ydcT</i>	3.134E-03	3.134E-03	9.036E-02	-6.409E-03
<i>ydjK</i>	1.841E-02	1.841E-02	8.115E-02	-6.415E-03
<i>rfbB</i>	4.396E-02	4.396E-02	9.241E-02	-6.494E-03
<i>cbrC</i>	1.967E-02	1.967E-02	9.951E-02	-6.701E-03
<i>pldB</i>	2.158E-03	2.158E-03	9.334E-02	-6.701E-03
<i>rplF</i>	5.799E-03	5.799E-03	9.537E-02	-6.714E-03
<i>ybaK</i>	7.018E-03	7.018E-03	9.107E-02	-6.726E-03
<i>recO</i>	1.213E-02	1.213E-02	9.224E-02	-6.848E-03
<i>sapD</i>	4.718E-03	4.718E-03	1.027E-01	-6.882E-03
<i>fepD</i>	3.250E-03	3.250E-03	9.451E-02	-7.020E-03
<i>yhjV</i>	5.547E-03	5.547E-03	9.938E-02	-7.051E-03
<i>dhaK</i>	6.463E-03	6.463E-03	9.860E-02	-7.096E-03
<i>rpsT</i>	2.987E-02	2.987E-02	9.224E-02	-7.117E-03
<i>wcaF</i>	3.505E-02	3.505E-02	1.010E-01	-7.143E-03
<i>adiA</i>	3.059E-02	3.059E-02	1.001E-01	-7.154E-03
<i>yadM</i>	1.694E-05	1.694E-05	9.648E-02	-7.244E-03
<i>menI</i>	2.175E-04	2.175E-04	1.036E-01	-7.266E-03
<i>yifK</i>	4.915E-03	4.915E-03	9.348E-02	-7.285E-03
<i>yegU</i>	2.853E-04	2.853E-04	9.964E-02	-7.311E-03
<i>araJ</i>	1.269E-03	1.269E-03	9.652E-02	-7.331E-03
<i>focA</i>	8.564E-03	8.564E-03	9.700E-02	-7.353E-03
<i>ybdM</i>	6.719E-03	6.719E-03	1.071E-01	-7.389E-03
<i>lpxH</i>	1.479E-02	1.479E-02	1.168E-01	-7.407E-03
<i>yigE</i>	2.034E-02	2.034E-02	9.647E-02	-7.455E-03
<i>secG</i>	8.492E-03	8.492E-03	1.065E-01	-7.540E-03
<i>waaY</i>	1.103E-03	1.103E-03	1.052E-01	-7.611E-03
<i>tktB</i>	1.097E-02	1.097E-02	1.053E-01	-7.628E-03
<i>argK</i>	5.697E-03	5.697E-03	1.085E-01	-7.673E-03
<i>ulaG</i>	1.859E-02	1.859E-02	1.016E-01	-7.708E-03
<i>ansB</i>	3.679E-02	3.679E-02	1.118E-01	-7.731E-03
<i>ysgA</i>	6.108E-04	6.108E-04	1.023E-01	-7.746E-03
<i>yphG</i>	3.181E-02	3.181E-02	1.104E-01	-7.777E-03
<i>ratA</i>	3.546E-02	3.546E-02	1.076E-01	-7.801E-03
<i>ygjJ</i>	2.395E-02	2.395E-02	1.033E-01	-7.812E-03
<i>sgcA</i>	4.302E-02	4.302E-02	1.096E-01	-7.832E-03
<i>araB</i>	2.608E-02	2.608E-02	1.151E-01	-7.839E-03
<i>fbaA</i>	3.284E-02	3.284E-02	9.960E-02	-7.902E-03
<i>rpoA</i>	4.746E-02	4.746E-02	1.115E-01	-7.903E-03
<i>glmS</i>	2.475E-02	2.475E-02	1.026E-01	-7.932E-03
<i>yjcE</i>	2.986E-02	2.986E-02	1.172E-01	-7.999E-03

<i>mnmE</i>	4.002E-02	4.002E-02	1.121E-01	-8.042E-03
<i>yfcE</i>	7.218E-03	7.218E-03	1.117E-01	-8.046E-03
<i>ddpB</i>	1.001E-02	1.001E-02	1.116E-01	-8.075E-03
<i>ygcQ</i>	3.537E-03	3.537E-03	1.128E-01	-8.118E-03
<i>tsaC</i>	6.115E-03	6.115E-03	1.113E-01	-8.145E-03
<i>rbsR</i>	1.409E-02	1.409E-02	1.033E-01	-8.164E-03
<i>ybeL</i>	4.066E-03	4.066E-03	1.067E-01	-8.309E-03
<i>agaD</i>	2.540E-03	2.540E-03	1.093E-01	-8.341E-03
<i>puuD</i>	1.379E-02	1.379E-02	1.062E-01	-8.370E-03
<i>mntR</i>	2.599E-04	2.599E-04	1.157E-01	-8.419E-03
<i>ybhl</i>	2.306E-02	2.306E-02	1.197E-01	-8.478E-03
<i>yegT</i>	1.112E-02	1.112E-02	1.185E-01	-8.494E-03
<i>kdul</i>	4.232E-03	4.232E-03	1.243E-01	-8.535E-03
<i>sdaC</i>	4.156E-04	4.156E-04	1.124E-01	-8.627E-03
<i>yfiF</i>	1.643E-03	1.643E-03	1.233E-01	-8.678E-03
<i>uxuB</i>	1.147E-02	1.147E-02	1.164E-01	-8.779E-03
<i>glxR</i>	1.135E-02	1.135E-02	1.278E-01	-8.997E-03
<i>rhaA</i>	1.712E-02	1.712E-02	1.231E-01	-9.045E-03
<i>amtB</i>	2.854E-02	2.854E-02	1.280E-01	-9.047E-03
<i>ydcF</i>	3.818E-03	3.818E-03	1.207E-01	-9.110E-03
<i>pepE</i>	4.870E-03	4.870E-03	1.231E-01	-9.204E-03
<i>ygcU</i>	2.731E-02	2.731E-02	1.259E-01	-9.304E-03
<i>yidA</i>	2.693E-02	2.693E-02	1.333E-01	-9.326E-03
<i>dmsB</i>	5.588E-03	5.588E-03	1.345E-01	-9.337E-03
<i>mutS</i>	5.415E-03	5.415E-03	1.314E-01	-9.339E-03
<i>hemB</i>	5.429E-03	5.429E-03	1.188E-01	-9.388E-03
<i>tsaB</i>	2.555E-02	2.555E-02	1.336E-01	-9.434E-03
<i>mmuP</i>	1.673E-03	1.673E-03	1.359E-01	-9.445E-03
<i>prpE</i>	3.999E-03	3.999E-03	1.263E-01	-9.494E-03
<i>minC</i>	3.443E-02	3.443E-02	1.420E-01	-9.562E-03
<i>mltA</i>	3.306E-02	3.306E-02	1.327E-01	-9.758E-03
<i>bacA</i>	3.622E-03	3.622E-03	1.358E-01	-9.841E-03
<i>tolB</i>	3.471E-02	3.471E-02	1.251E-01	-9.925E-03
<i>ddpC</i>	4.621E-02	4.621E-02	1.475E-01	-9.993E-03
<i>rnk</i>	3.773E-02	3.773E-02	1.496E-01	-1.007E-02
<i>menC</i>	1.485E-02	1.485E-02	1.601E-01	-1.010E-02
<i>yhjB</i>	4.291E-03	4.291E-03	1.395E-01	-1.016E-02
<i>potG</i>	1.745E-03	1.745E-03	1.399E-01	-1.052E-02
<i>adeP</i>	6.901E-03	6.901E-03	1.532E-01	-1.056E-02
<i>hisS</i>	7.409E-04	7.409E-04	1.459E-01	-1.072E-02
<i>acul</i>	2.744E-02	2.744E-02	1.829E-01	-1.086E-02
<i>znuC</i>	4.413E-03	4.413E-03	1.589E-01	-1.093E-02

<i>nei</i>	4.028E-02	4.028E-02	1.428E-01	-1.121E-02
<i>bcsG</i>	1.596E-05	1.596E-05	1.551E-01	-1.130E-02
<i>ybhQ</i>	1.029E-02	1.029E-02	1.652E-01	-1.146E-02
<i>yiaK</i>	1.096E-02	1.096E-02	1.756E-01	-1.146E-02
<i>yqjI</i>	2.277E-02	2.277E-02	1.572E-01	-1.153E-02
<i>pntB</i>	9.591E-04	9.591E-04	1.464E-01	-1.159E-02
<i>yadjM</i>	1.188E-02	1.188E-02	1.691E-01	-1.162E-02
<i>yedQ</i>	1.760E-02	1.760E-02	1.724E-01	-1.163E-02
<i>ecpD</i>	7.909E-04	7.909E-04	1.644E-01	-1.170E-02
<i>yneJ</i>	2.320E-03	2.320E-03	1.615E-01	-1.170E-02
<i>yael</i>	5.961E-03	5.961E-03	1.686E-01	-1.172E-02
<i>dauA</i>	3.319E-03	3.319E-03	1.745E-01	-1.241E-02
<i>fdhF</i>	1.868E-03	1.868E-03	1.763E-01	-1.244E-02
<i>yeaM</i>	2.990E-02	2.990E-02	1.822E-01	-1.278E-02
<i>yeiL</i>	2.473E-02	2.473E-02	1.937E-01	-1.314E-02
<i>hyfJ</i>	2.961E-02	2.961E-02	1.818E-01	-1.321E-02
<i>yhcC</i>	3.379E-02	3.379E-02	1.770E-01	-1.334E-02
<i>rplD</i>	3.214E-03	3.214E-03	2.028E-01	-1.378E-02
<i>epd</i>	1.391E-03	1.391E-03	1.926E-01	-1.381E-02
<i>ycdZ</i>	3.664E-03	3.664E-03	1.923E-01	-1.382E-02
<i>ybbW</i>	1.118E-03	1.118E-03	1.954E-01	-1.383E-02
<i>cusA</i>	4.413E-03	4.413E-03	2.099E-01	-1.405E-02
<i>brnQ</i>	6.746E-05	6.746E-05	2.094E-01	-1.482E-02
<i>mdh</i>	3.787E-02	3.787E-02	2.113E-01	-1.516E-02
<i>hyaE</i>	3.231E-03	3.231E-03	2.192E-01	-1.544E-02
<i>tdh</i>	6.990E-03	6.990E-03	2.333E-01	-1.701E-02
<i>nfsA</i>	1.333E-03	1.333E-03	2.563E-01	-1.758E-02
<i>yfeZ</i>	4.555E-03	4.555E-03	2.480E-01	-1.763E-02
<i>yciT</i>	6.028E-05	6.028E-05	2.391E-01	-1.788E-02
<i>hfq</i>	9.960E-03	9.960E-03	2.769E-01	-1.852E-02
<i>nlpC</i>	5.405E-03	5.405E-03	2.767E-01	-2.008E-02
<i>fur</i>	4.713E-02	4.713E-02	2.684E-01	-2.051E-02
<i>rho</i>	4.779E-02	4.779E-02	2.941E-01	-2.121E-02
<i>mreD</i>	9.006E-04	9.006E-04	3.045E-01	-2.195E-02
<i>alaC</i>	7.192E-03	7.192E-03	3.421E-01	-2.368E-02
<i>yfbS</i>	5.127E-03	5.127E-03	4.863E-01	-3.239E-02