		-14	-13	-10		+1
csiD	TTGTGCGCATTTTTCAGAAATGTA	G	A	TATTTT	TAGATT	A
bolA(p1)	GCTGCAATGGAAACGGTAAAAGCG	G	C	TAGTAT	TTAAAG	G
osmY	TCCCGAGCGGTTTCAAAATTGTGA	T	C	TATATT	TAACAAA	G
katE	AACTGTAGTTTAGCCGATTTAGCC	C	C	TGTACG	TCCCGCTTT	G
ada	TTGGTTTTTGCGTGATGGTGACCG	G	G	CAGCCT	AAAG	G
adhE(p1)	ATGCTAATGTAGCCACCAAATCAT	A	C	TACAAT	TTATTA	A
adhE(p2)	TCACGTAATCAGTACCCAGAAGTG	A	G	TAATCT	TGCTTAC	G
aidB	TTCTGTCATGAATCCATGGCAGTG	A	C	CATACT	AATGGT	G
aldB	ACGGCGAAGATTTCGCCAGTCACG	T	C	TACCCT	TGTTAT	A
blc	TTTCTCCGCTTTTCCTTGCTGTCA	T	C	TACACT	TAGA	A
cbpA	TGCATATGAAATTTTGAGGATTAC	C	C	TACACT	TATA	G
cfa(p1)	TTGTTGTATGATTGAAATTAGCGG	C	C	TATACT	AATTTC	G
cfa(p2)	ATTTCTCACAAAGCCCAAAAAGCG	T	C	TACGCT	GTTTT	A
csgBA	AGTTATTAAAAATATTTCCGCAGA	C	A	TACTTT	CCATC	G
csiE	AGCATTCCCTTCGCCATTTCCTTG	A	G	CAAACT	TTAGCT	A
cyxA	GTTTCAGGATAAAGAGGGAGATCT	A	C	CATTAT	CGGGTT	A
dnaN(p1)	AGTGGCGTTCTTTATCGCCAAGCG	T	C	TACGAT	CTAAC	G
dnaN(p2)	CATTGCAGGAAAAACTGGTCACCA	T	C	GACAAT	ATTCA	G
dnaN(p4)	GTGTGAAGAGAGCCACGATATCAA	A	G	AAGATT	TTTCAA	A
dnaQ(p2)	ATTTCTACCTGTTTAAGCATCTCT	G	G	TAGACT	TCCTGT	A
dps	AGAATAGCGGAACACATAGCCGGT	G	C	TATACT	TAATCTC	G
ecnB	TTCCCATCATTTTTGGCGATGTTG	T	C	TATTAT	TAATTT	G
fic	CTCCGGCGTAACCCGGATTTGCCG	C	T	TATACT	TGTGG	G
frdA	TCAAATTTCAGACTTATCCATCAG	A	C	TATACT	GTTGTA	C
ftsQ(p1)	TACGTATTCAACCGTCCGGAACCT	T	C	TATGAT	TATGT	G
gadA	GCCTTGCTTCCATTGCGGATAAAT	C	C	TACTTT	TTTATT	G
gadB	CACTTGCTTACTTTATCGATAAAT	C	C	TACTTT	TTTAAT	G
gal(P1)	TCACACTTTTCGCATCTTTGTTAT	G	C	TATGGT	TATTTC	A
glgS(p2)	TTTACGCACGTTATGTTTAAAGGC	A	C	TACACT	GATTGGG	A
gor	TTGCTGGCACCTATTACGTCTCGC	G	C	TACAAT	CGCGGT	A
hdeAB	CATGACATATACAGAAAACCAGGT	T	A	TAACCT	CAGT	G
himA(p4)	AGTTGGCGTAAATCAGGTAGTTGG	C	G	TAAACT	TATTT	G
htrE(p2)	GGAATAATAATTTCTATTTTATAT	T	A	TTCCCT	GTTTTA	A
osmB(p1)	CATCCGCTCTAAGATGATTCCTGG	T	T	GATAAT	TAAG	A
osmB(p2)	GTAATTTCACCAGACTTATTCTTA	G	C	TATTAT	AGTTAT	A
osmC(p2)	CCTCGTGCTGTTTCTCACGTAGTC	T	A	TAATTT	CCTTTTTA	A
osmE	GGCTTGAAAAAGCGCCCAATGTAT	T	C	CAGGCT	TATCTA	A
otsB	CAAATGGCGACCCCCGTCACACTG	T	C	TATACT	TACAT	G
pm	GGCTATCTCTAGAAAGGCCTACCC	C	T	TAGGCT	TTATGCA	A
poxB	ATCCCTTCCCCCTCCGTCAGATGA	A	C	TAAACT	TGTTACC	G
pqi5(p2)	TAAAACGCAGCAGTAGCAAACTAA	G	C	TATAAA	TTGCAGC	G
proP(p2)	TAACCGGAGGGTGTAAGCAAACCC	G	C	TACGCT	TGTTAC	A
proU(P1)	TATCACGCAAATAATTTGTGGTGA	T	C	TACACT	GATATCT	G
rnaI	TTCTTGAAGTAGTGGCCGACTACG	G	C	TACACT	AGAAGG	A
topA(Px1)	TACTGGCAACTTTGGATTTTGCAT	G	C	TAATAA	AGTTGC	G
treA	ATCATGCAGCTAGTGCGATCCTGA	A	C	TAAGGT	TTTCTG	A
trp	GCTGTTGACAATTAATCACGAACT	A	G	TTAACT	AGTACG	C
uspB	TCTCGAAAAAAAACAACCTGATCT	C	C	TACACT	ATCT	A
xthA	AGGCGGTAAGCAACGCGAAATTCT	G	C	TACCAT	CCACGC	A