

Primer	Sequence
Primers for plasmid pLD4042 (used to make Δvfr)	
3611	cctgcaggtcgactctagagGGGAGAAGATGGACGAACTG
3612	CTACACCGCAAAGAGCACCTGGTGCATGTGAAAGGAAA
3613	TTTCCTTTCACATGCACCAGGGTGCTCTTTGCGGTGTAG
3614	cagctatgaccatgattacg GATGGCGATTGTGGTTTGT
Primers for plasmid pLD4537 (used to make $\Delta antABC$)	
3962	ggcaaattctgtttatcagaccgcttctgcgttctgatTCAGTCCCTTGATCAGCGC
3963	GTCGAAATGCTCGTGCAGGTACAGCTCCGGTTCGGTGAAC
3964	GTTACCCGAACCGGAGCTGTACCTGCACGAGCATTTCGAC
3965	aattgtgagcggataacaatttcacacaggaacagctCCCGGCGAATTTCTACTACGA
Primers for plasmid pLD3079 (used to make $\Delta gacA$)	
1932	ccaggcaaattctgtttatcagaccgcttctgcgttctgatAGCGTGCGACGTTATGTCT
1933	gaagatgcggtagcgaatagACCACTTGCAAGCCTTCG
1934	cgaaggcttgaagtggctCTATCGCTACCGCATCTTC
1935	ggaattgtgagcggataacaatttcacacaggaacagctTCACGTTGACGATCAACTCC
Primers for plasmid pLD4228 (used to make $\Delta lasR$)	
3813	cctgcaggtcgactctagagACAGGTCCCCGTCATGAAAC
3814	GTTTTCTTGAGCTGGAACGCATGGCCGTTAATTTGGGTCT
3815	AGACCCAAATTAACGGCCATGCGTTCAGCTCAAGAAAAC
3816	cagctatgaccatgattacgGATCAACATGGTCACCTCCA
Primers for plasmid pLD3594 (used to make $\Delta aer1$)	
2958	aggcaaattctgtttatcagaccgcttctgcgttctgatTGGAACCGAAGGACTTCAAC
2942	CTCGTCGGAGGTCTGCTCTTTGAGATTGGTGGTGGTGA
2943	TCACCACCACCAATCTCAAAGAGCAGACCTCCGACGAG
2944	ggaattgtgagcggataacaatttcacacaggaacagctAGATCCTCTGCGGCGATT
Primers for plasmid pLD3579 (used to make $\Delta aer2$)	
2950	aggcaaattctgtttatcagaccgcttctgcgttctgatCACGGTGACGATCACCAGGT
2951	CTCCAGTCGTTCCGCGACAGCGTGGTCCAGCTCGCC
2952	GGCGAGCTGGACCACGCTGTCGGCGAACGACTGGAG
2953	ggaattgtgagcggataacaatttcacacaggaacagctCTGGCAACTGGTGTTCATGC
Primers for plasmid pLD3979 (used to make $\Delta pilA$)	
3583	aggcaaattctgtttatcagaccgcttctgcgttctgatCCTCACCTCTGAACGAATC
3584	GATTACACCATTCGTGCTCG ATCCAATGCGGTTTCCAGT
3585	ACTGGAACCGCATTGGAT CGAGCACGAATGGTGTAAATC
3586	ggaattgtgagcggataacaatttcacacaggaacagctACTTCATGGAGCATGCCATC

Primers for plasmid pLD4137 (used to make $\Delta pilT \Delta pilU$)	
3666	aggcaaattctgtttatcagaccgcttctgcgttctgatGAACGCTATGCGGGGTGT
3667	GTCAGGTTTCGACAGGTGGTC GGAGAGGTGCAGGTCCGAAG
3668	CTTCGGACCTGCACCTCTCC GACCACCTGTGGAACCTGAC
3669	ggaattgtgagcggataacaatttcacacaggaacagctGCCTATCCTGTAGGCTGGTG
Primers for plasmid pLD4630 (used to make Δssg)	
4193	aggcaaattctgtttatcagaccgcttctgcgttctgatAGAAAAACAACCGCGCAAT
4194	GGCTACTTCCGCAAGCACGCCGCTGTCCGGTCAGAGTATC
4195	GATACTCTGACCGACAGCGGCGTGCTTGCGGAAGTAGCC
4196	ggaattgtgagcggataacaatttcacacaggaacagctTACCTGAACCTGACGGGACT
Primers for plasmid pLD4832 (used to make $\Delta wapR$)	
4349	aggcaaattctgtttatcagaccgcttctgcgttctgatGGCATGATCGTGGCTTATATC
4350	CAGACGTACCGCAACGTCTCGAACCGGGACAAGGT
4351	ACCTTGTCGCCGTTTCGAGACGTTGCGGTACGTCTG
4352	ggaattgtgagcggataacaatttcacacaggaacagctAAGAATTCGAGGCGATGG
Primers for plasmid pLD4631 (used to make $\Delta wbpM$)	
4201	aggcaaattctgtttatcagaccgcttctgcgttctgatCATGGATGGCATTGATGGTA
4202	GTAGTCGTCCTTCTCCACGGCGAAGGCTAGCCAGAGCGATA
4203	TATCGCTCTGGCTAGCCTTCGCCGTGGAGAAGGACGACTAC
4204	ggaattgtgagcggataacaatttcacacaggaacagctGGTGATCCGCACCAACTATT
Primers for plasmid pLD3939 (used to make $\Delta cheY$)	
3424	aggcaaattctgtttatcagaccgcttctgcgttctgat CCCAGAGACGTGTTACTCGAA
3425	TCAACGGCTATGTGGTCAAAGGACTTGGGCTTCACCAATA
3426	TATTGGTGAAGCCCAAGTCCTCAACGGCTATGTGGTCAA
3427	ggaattgtgagcggataacaatttcacacaggaacagctGAGCCGTATACGAGGCATTC
Primers for plasmid pLD3629 (used to make $\Delta motA \Delta motB$)	
2994	aggcaaattctgtttatcagaccgcttctgcgttctgatGCATCGAAAAGATCCAGGAA
2995	ATCCAGCCCTTCGAGGTCGTGCAGAAGAAGCTCAACC
2996	GGTTGAGCTTCTTCTGCACGACCTCGAAGGGCTGGAT
2997	ggaattgtgagcggataacaatttcacacaggaacagctACCTGCTGCTGGACTTCG
Primers for plasmid pLD3630 (used to make $\Delta motC \Delta motD$)	
3002	aggcaaattctgtttatcagaccgcttctgcgttctgatGTAGGACTGCAAGGCCAGTT
3003	ATCATCCTGGCGTTCGTCCGCACGCAAGCTGCAGATACT
3004	AGTATCTGCAGCTTGCGTGCCGACGAACGCCAGGATGAT
3005	ggaattgtgagcggataacaatttcacacaggaacagctCCGGTCCTGATGTTCTCCT

Primers for plasmid pLD3938 (used to make Δ <i>fliA</i>)	
3484	aggcaaattctgtttatcagaccgcttctgcgttctgatGAACTGTTTCGATGCGCTTG
3485	CATCGCCTATCACCTGCTCGAGGAGATCGGCGAGGTAAGT
3486	CAGTACCTCGCCGATCTCCTCGAGCAGGTGATAGGCGATG
3487	ggaattgtgagcggataacaatttcacacaggaacagctCATCGTTCCTCCGCAATAC
Primers for plasmid pLD3635 (used to make Δ <i>ptsP</i>)	
2475	aggcaaattctgtttatcagaccgcttctgcgttctgatCGGCTCGATCACTTCCTGCA
2476	ctgcgggtgtcgaaggtgagCATGGCTTCCTTGACCCGCTG
2477	cagcgggtcaaggaagccatgCTCACCTTCGACAACCCGCAG
2478	ggaattgtgagcggataacaatttcacacaggaacagctGATGAACTCCTCGCCGCC
Primers for plasmid pLD1204 (used to make Δ <i>dipA</i>)	
2611	ggaattgtgagcggataacaatttcacacaggaacagctGCAGCAACTGGTGAAGCGC
2612	GCAGCTCGCTGAGGTTCTcgcGCGCCGGAAGCTCGGA
2613	TCCGAGCTTCCGGCGCgcgAGAACCTCAGCGAGCTGCT
2614	ccaggcaaattctgtttatcagaccgcttctgcgttctgatATCTGCAGCTCGCCCAG
Primers for plasmid pLD3910 (used to make Δ <i>cyaA</i>)	
3502	cctgcaggctgactctagagCAGCTCAATCCCTACCCCTA
3503	TAACGCAGATAGTGCAGCGTGTTCGAGATCGAGGCTGAGTG
3504	CACTCAGCCTCGATCTCGACACGCTGCACTATCTGCGTTA
3505	cagctatgaccatgattacgAAGGCAAGGTCTCGATCCTC
Primers for plasmid pLD3909 (used to make Δ <i>cpdA</i>)	
3494	cctgcaggctgactctagagGTCGATGACTTCCAGCGAGT
3495	CGTACTGCTGGTGCAGCTTTTCGAAGTGGACTACGACACC
3496	GGTGTCGTAGTCCACTTCGAAAAGCTGCACCAGCAGTACG
3497	cagctatgaccatgattacg CCTGATCGACAAGGACGAG
Primers for plasmid pLD3609 (used to make Δ <i>ackA</i>)	
3022	caggcaaattctgtttatcagaccgcttctgcgttctgatCAATCGGCGAATGAACGCCG
3023	GGATCACCAGTACCCGCGGGTGCAGGGGAAACAGGGAGT
3024	ACTCCCTGTTTCCCCTGCACCCGCGGGTACTGGTGATCC
3025	ggaattgtgagcggataacaatttcacacaggaacagctCGTGCGCTGAGCAGATCG
Primers for plasmid pLD4358 (used to make pSEK109-rhaSR-PrhaBAD)	
3920	gattcgactgcactagtTTAATCTTTCTGCGAATTGAGATGAC
3921	gattcgactgcctcgagTACGACCAGTCTAAAAAGCGC