

Supplementary Material

Supplementary Table 2. Primers used in this work.

Primer name	Sequence	Application
Tar_clip_F	agtgaacgctcagtcggaatacgcgcagtcattagccgagggatgatg cgaaactgggaaaccttcGCCTCCGCCGCCGCTCCATGGA CAAAGAC	Oligonucleotides to introduce CLIP-tag after <i>tar</i> gene
Tar_clip_R2	ttttgcttttatctatgcgaaccagacgaaaggtatcgcggttcgcaaattaat cgataaccgacagcgacgtcgaATGGGAATTAGCCATGGT CC	
R_clip_F	taatcagaatgccacgcccgatttcgccgttgacgatagcgaaggcgttgaga aaccaacgaagattttGCCTCCGCCGCCGCTCCATGAGAC AAAGAC	Oligonucleotides to introduce CLIP-tag after <i>recA</i> gene
R_clip_P2	cataaatgcagcccttgatggtaattaacgttttgcgaatggcggttcgtttgc ccgccccaccatcacctgatgaATGGGAATTAGCCATGGTCC	
W_snap_F	ggatgaatcgaaaaactgcttaacagcgaagagatggcgctgctggatcgc agcatcacacgtcgcggcctccgccgcctccatggacaagac	Oligonucleotides to introduce SNAP-tag after <i>cheW</i> gene
W_snap_P2	cgatgaagaggcactctcaccgctggcggaagcataacggtaattgccgg atggcgcgagccatccggcaacgttaATGGGAATTAGCCATG GTCC	
A_snap_F	cgcgctgattgtgatgtttcgcattgcaggggttaaacgcgaacaacgtatgg cgatcacagcccgcctccgccgcctccatggacaagac	Oligonucleotides to introduce SNAP-tag after <i>cheA</i> gene
A_snap_P22	caggaattcctgacctgacgctcgccggccagtttgcttacattactataccg gtcatattattcccttctactcaaATGGGAATTAGCCATGGTCC	
cApKO3BF	agggatccTTCGATAATTCACCAGAATCAG	Oligonucleotides for checking 500 bp downstream and upstream of its STOP codon
cApKO3BR	agggatccGATGTGGTGAAACGTAACAT	
cheA_fw	acacaggaacagtacatATGAGCATGGATATTAGCG	Oligonucleotid to amplify since start of <i>cheA</i>
cWpKO3BF	agggatccCATTCTGGAGTAAATCCGT	Oligonucleotides for checking 500 bp downstream and upstream of its STOP codon
cWpKO3BR	agggatccACCGGTATGAGTAATGTAAGC	
pNAS_RecAf	ttcacacaggaacagtacaATGGCTATCGACGAAAAC	Oligonucleotides for checking <i>recA</i> gene from its start and final <i>recX</i> gene
recX_HF_f	gggatcgcgcccgccgacggatccTCAATCTGCAAAATTTT GCC	
tarpKO3BF	AGggatccATGGCGATACTGTAAGTTTCT	Oligonucleotides for checking 500 bp downstream and upstream of its STOP codon
tarpKO3BR	agggatccACTAACATTCTGGCGCTGA	
M304A F	TACCCAGTCAGcgTTGGCCCAGC	Oligonucleotides for CheA M303A mutant derivative construction
M304A R	ATCACTAACTCGCCGACC	
L312A F	TTCTAACGAGcgGACCCGGTAAACC	Oligonucleotides for CheA L311A mutant derivative construction
L312A R	CGCTGGGCCAACATTGAC	
G538A F	TCGCGTGGCGcgGAAGTTTTTA	Oligonucleotides for CheA G537A mutant derivative construction
G538A R	ACCGACATCCCATCGAGG	
D588A F	GTTTGACGTGcgGGGGCGAAAAC	Oligonucleotides for CheA D587A mutant derivative construction
D588A R	ACTTTCCACAATTCGACC	
K591A F	GGACGGGGCGcaACCGAAGCCA	Oligonucleotides for CheA K590A mutant derivative construction
K591A R	ACGTCAAACACTTTCCACAATTCGAC	

T592A_F	CGGGGCGAAAgccGAAGCCACGC	Oligonucleotides for CheA
T592A_R	TCCACGTCAAACACTTTCCACAATTCGACC	T591A mutant derivative construction
S629A_F	AAATCTGGAAGccAATTATCGCAAGGTACCGG	Oligonucleotides for CheA
S629A_R	TTGACCACCACCTGGTGC	S628A mutant derivative construction
S647A_F	GGGCGACGGCgcccGTCGCGCTGA	Oligonucleotides for CheA
S647A_R	AGGATCGTCGCGGCGGAAATC	S646A mutant derivative construction
F204A_F	TGGCGTGATGgcgGGTAACCCGG	Oligonucleotides for RecA
F204A_R	ATCTTCATACGGATCTGG	F203A mutant derivative construction
I229A_F	TATCCGTCGTgcgGGCGCGGTGA	Oligonucleotides for RecA
I229A_R	TCAAGACGAACAGAGGCG	I228A mutant derivative construction
R244A_F	TAGCGAAACGgcgGTGAAAGTGGTGAAAAACAA AATC	Oligonucleotides for RecA
R244A_R	CCCACGACATTATCGCCC	R243A mutant derivative construction
F256A_F	CGCCGCGCCGgcgAAGCAGGCCG	Oligonucleotides for RecA
F256A_R	ATTTTGTTTTTCACCACTTTCACACGCGTTTC	F255A mutant derivative construction
Q258A_F	GCCGTTTAAGgcgGCCGAGTTCC	Oligonucleotides for RecA
Q258A_R	GCGGCGATTTTGTTTTTC	Q257A mutant derivative construction
K287A_F	GCTGATCGAGgcgGCGGGCGCAT	Oligonucleotides for RecA
K287A_R	TTCTCTTTCACGCCCAGG	K286A mutant derivative construction
Q301A_F	GAAGATTGGCgcgGGTAAAGCGAACG	Oligonucleotides for RecA
Q301A_R	TCGCCGTTGTAGCTGTAC	Q300A mutant derivative construction