

**Table S4.** Oligonucleotides used in this study.

<b>Primer</b>	<b>Sequence 5'→3'</b>	<b>Construct(s)</b>
DpaAGS_C143A_F	TTC CAT CGG CGC CTA CGC AAT GAC	pGS124-DpaA(C143A)
DpaAGS_C143A_R	ACA CAA TCG CCG TGG ATC	pGS124-DpaA(C143A)
DpaA_C143A_F	TCATTGCGTAggcGCCGATGGAAAC	pET29b-DpaA(C143A)-his
DpaA_C143A_R	CCAATCAGGGTATTGATG	pET29b-DpaA(C143A)-his
LdtE_pET28a_F	TTA GTT CCT CGT GGT TCT CTC GAG CAC CAC CAC CAC	pET28a-LdtE-his
LdtE_pET28a_R	CCA TGG TAT ATC TCC TTC TTA AAG TTA AAC AAA ATT	pET28a-LdtE-his
LdtE_Insert_F	GAA GAA GAT ATA CCA TGG ATG AAA CGC GCG TCT TTG	pET28a-LdtE-his
LdtE_Insert_R	AGA ACC ACG AGG AAC TAA CTG CGT CAC GCG TAA CAT	pET28a-LdtE-his
PeIBss- DpaA_pET29b_F	GCGCC CAG CCG GCG ATG GCc ggt ttg ctg ggc agc ag	pET29b-DpaA-his
DpaA_pET29b_R	GGA TCC GAT ATC GCC ATG GAA CCG CGT GGC ACC AGg gta cct ttt gcc tcg ggg agc gtg	pET29b-DpaA-his
PeIBss_F	GGC CAT CGC CGG CTG GGC	pET29b-DpaA-his
PeIBss_R	ACT ATA GGG GAA TTG TGA GCG G	pET29b-DpaA-his