

Table S1: Sequence of primers used for cloning

Primer	Sequence	Purpose
nadAfor	5'-GCG GCG <u>TCC ATA TGA</u> GCG TAA TGT TTG ATC CAG ACA CGG CG-3'	Forward Primer for cloning <i>E. coli nadA</i> ^a
nadArev	5'-GCC <u>GGA ATT CTT</u> ATC CAC GTA GTG TAG CCG CAA AAT CCA GC-3'	Reverse primer for cloning <i>E. coli nadA</i> ^b
nadBfor	5'-GCG GCG <u>TCC ATA TGA</u> ATA CTC TCC CTG AAC ATT CAT GTG ACG TGT TGA TTA TCG G- 3'	Forward Primer for cloning <i>E. coli nadB</i> ^a
nadBrev	5'-GCG <u>CGA AGC TTT</u> TAT CTG TTT ATG TAA TGA TTG CCG GGG GAA AGG ATC GAC GG-3'	Reverse primer for cloning <i>E. coli nadB</i> ^c
PhNadA.for.AEG	5'-CGC GGC GTC <u>CAT ATG</u> GAT TTA GTT GAA GAA ATT TTG AGG CTT AAA GAG G-3'	Forward Primer for cloning <i>P. horikoshii nadA</i> ^a
PhNadA.rev.AEG	5'-CGC GGC GTC <u>GAA TTC</u> TCA TTT GCT CAT CTC CAG CAT TCT TTC TAT GGC-3'	Reverse primer for cloning <i>P. horikoshii nadA</i> ^b
MTnadA.for	5'-CGC GGC GTC <u>CAT ATG</u> GTG CTG AAT CGC ACG GAC ACG C-3'	Forward Primer for cloning <i>M. tuberculosis nadA</i> ^a
MTnadA.rev	5'-CGC GGC GTC <u>GAA TTC</u> TCA TTC GCC ACC GCC GGG ATG CGG G-3'	Reverse primer for cloning <i>M. tuberculosis nadA</i> ^b
Cter3MtNadA.rev	5'-CGC GGC GTC <u>CTC GAG</u> TCT TTC GCC ACC GCC GGG ATG GCC G-3'	Reverse primer for cloning <i>E. coli nadA</i> ^d

^a Underlined bases represent *NdeI* restriction site.

^b Underlined bases represent *EcoRI* restriction site.

^c Underlined bases represent *HindIII* restriction site.

^d Underlined bases represent *XhoI* restriction site.

Table S2: Sequence of primers used for mutagenesis

Primer	Sequence	Purpose
nadAcs291for	5'-GGT GAG GGT GCA ACC AGC CGC AGC TGC GC-3'	Forward Primer for <i>E. coli</i> C291S
nadAcs291rev	5'-GCG CAG CTG CGG CTG GTT GCA CCC TCA CC-3'	Reverse Primer for <i>E. coli</i> C291S
nadAcs294for	5'-GGT GCA ACC TGC CGC AGC AGC GCG CAT TGT CC-3'	Forward Primer for <i>E. coli</i> C294S
nadAcs294rev	5'-GGA CAA TGC GCG CTG CTG CGG CAG GTT GCA CC-3'	Reverse Primer for <i>E. coli</i> C294S
nadAcs297for	5'-CGC AGC TGC GCG CAT TCT CCG TGG ATG GCC-3'	Forward Primer for <i>E. coli</i> C297S
nadAcs297rev	5'-GGC CAT CCA CGG AGA ATG CGC GCA GCT GCG-3'	Reverse Primer for <i>E. coli</i> C297S
nadAcs64for	5'-CAG AAG AAA CCG GTG GCT CTA TTT CTG ATT CTC TGG-3'	Forward Primer for <i>E. coli</i> C64S
nadAcs64Rev	5'-CCA GAG AAT CAG AAA TAG AGC CAC CGG TTT CTT CTG-3'	Reverse Primer for <i>E. coli</i> C64S
nadAcs113For	5'-GCC GAC ACT TCA GGC TGA ATC TTC ACT GGA TCT CGG-3'	Forward Primer for <i>E. coli</i> C113S
nadAcs113Rev	5'-CCG AGA TCC AGT GAA GAT TCA GCC TGA AGT GTC GGC-3'	Reverse Primer for <i>E. coli</i> C113S
nadAcs119For	5'-GGA TCT CGG CAG CCC TGT TGA AGA ATT TAA CGC-3'	Forward Primer for <i>E. coli</i> C119S
nadAcs119Rev	5'-GCG TTA AAT TCT TCA ACA GGG CTG CCG AGA TCC-3'	Reverse Primer for <i>E. coli</i> C119S
nadAcs128For	5'-CCC TGT TGA AGA AAT TAA CGC ATT TAG CGA TGC CCA TCC CGA TCG-3'	Forward Primer for <i>E. coli</i> C128S
nadAcs128Rev	5'-CGA TCG GGA TGG GCA TCG CTA AAT GCG TTA AAT TCT TCA ACA GGG-3'	Reverse Primer for <i>E. coli</i> C128S
nadAcs195For	5'-GGT GGA GAC ATT CTA AGC TGG CAG GGT GCC-3'	Forward Primer for <i>E. coli</i> C195S
nadAcs195Rev	5'-GGC ACC CTG CCA GCT TAG AAT GTC TCC ACC-3'	Reverse Primer for <i>E. coli</i> C195S
nadAcs200For	5'-GCT GGC AGG GTG CCT CTA TTG TGC ATG ATG AAT TTA AGA CTC AGG-3'	Forward Primer for <i>E. coli</i> C200S

nadAcs200Rev	5'-CCT GAG TCT TAA ATT CAT CAT GCA CAA TAG AGG CAC CCT GCC AGC-3'	Reverse Primer for <i>E. coli</i> C200S
nadAc113afor.AHS	5'-GCC GAC ACT TCA GGC TGA AGC TTC ACT GGA TCT CGG-3'	Forward Primer for <i>E. coli</i> C113A
nadAc113arev.AHS	5'-CCG AGA TCC AGT GAA GCT TCA GCC TGA AGT GTC GGC-3'	Reverse Primer for <i>E. coli</i> C113A
nadAc200afor.AHS	5'-GCT GGC AGG GTG CCG CTA TTG TGC ATG ATG AAT TTA AGA CTC AGG-3'	Forward Primer for <i>E. coli</i> C200A
nadAc200arev.AHS	5'-CCT GAG TCT TAA ATT CAT CAT GCA CAA TAG CGG CAC CCT GCC AGC-3'	Reverse Primer for <i>E. coli</i> C200A
nadAc297afor.AHS	5'-CGC AGC TGC GCG CAT GCT CCG TGG ATG GCC-3'	Forward Primer for <i>E. coli</i> C297A
nadAc297arev.AHS	5'-GGC CAT CCA CGG AGC ATG CGC GCA GCT GCG-3'	Reverse Primer for <i>E. coli</i> C297A

Bolded bases represent amino acid changes.