

1 **TABLE S1** Oligonucleotides used in this study

Oligonucleotide	Sequence
algO-F	5'-ATG GAG GCA CTG GCA GAT TAC AAG G-3'
algO-R	5'-TCA GAC TGG GCG CGT ACT ATC GCG G-3'
Km-F	5'-ATG AGC CAT ATT CAA CGG GAA ACG T-3'
Km-R	5'-TTA GAA AAA CTC ATC GAG CAT CAA ATG AAA CT-3'
algO(pET21b)-F	5'-GAA GGA GAT ATA CAT ATG GAG GCA CTG GCA GAT TAC AAG G-3'
algO(pET21b)-R	5'-TCA GTG GTG GTG GTG GTG GTG GAC TGG GCG CGT ACT ATC GCG-3'
pET21b-inv-F	5'-CAC CAC CAC CAC CAC CAC TGA GAT CCG GCT-3'
pET21b-inv-R	5'-ATG TAT ATC TCC TTC TTA AAG TTA AAC AAA ATT ATT TCT AGA GG-3'
algO-aly_F	5'-TGT CAA ACA TCG AAC TGT CTC C-3'
algO-aly_R	5'-AGC CCC GAA TGC TCT ATC C-3'
algS-M1_F	5'-TTG TCA TGG TGC TCC TCC TC-3
algS-M1_R	5'-GCC CAG TCA CAG GCC TCT A-3'
algM1-M2_F	5'-AGC CGC CGT ATC ACC AAG A-3'
algM1-M2_R	5'-ATA GAA AGG TGT GGC GAG CA-3'
algM2-Q1_F	5'-CGG AGG CGT AAA AGA ATA ACC A-3'
algM2-Q1_R	5'-GCG AAC ATC AAT GCG GAA C-3'
algQ1-Q2_F	5'-AGC CAA GTA ACG CAC GCA TC-3'
algQ1-Q2_R	5'-TGC GAC GGA CAA CAT CAT C-3'
algQ2-A1IV_F	5'-CAA GCC TAC GAC CGT CAA TAC A-3'
algQ2-A1IV_R	5'-CTT CTT CAT CAC TCT GTC CTT CG-3'
202bp-F	5'-TGG ACT TCC TCC GGC CTT CC-3'
202bp-R	5'-TTT GCT CCT CCT TGG CCC GT-3'
146bp-F	5'-CGC ACG CAT CGC GCA GAA GA-3'
146bp-R	5'-GGT GCT TTG CTC CTC CGA GT-3'
234bp-F	5'-TCG CAT GAC CCA TGT CCC GG-3'
234bp-R	5'-CAC TCT GTC CTT CGT TGT CG-3'
94 bp-F	5'-TGT CGA ATC ATT CGC CGC AAC AGC AAA AAC GAT T-3'
94 bp-R	5'-TTT GCT CCT CCT TGG CCC GT-3'
72 bp-sense	5'-TGG ACT TCC TCC GGC CTT CCT GCG TCG ATT TAG TTG TGA GTG CGA TTC TAG TTT CCA GAA TCT TTC TGG CAA-3'
72 bp-antisense	5'-TTG CCA GAA AGA TTC TGG AAA CTA GAA TCG CAC TCA CAA CTA AAT CGA CGC AGG AAG GCC GGA GGA AGT CCA-3'
69 bp-sense	5'-CTG CGG GTT TTC CGC AAG TGT GGA AAT TTC TCG AAT GTC GAA TCA TTC GCC GCA ACA GCA AAA ACG ATT-3'
69 bp-antisense	5'-AAT CGT TTT TGC TGT TGC GGC GAA TGA TTC GAC ATT CGA GAA ATT TCC ACA CTT GCG GAA AAC CCG CAG-3'
35 bp-sense	5'-CTG CGG GTT TTC CGC AAG TGT GGA AAT TTC TCG AA-3'
35 bp-antisense	5'-TTC GAG AAA TTT CCA CAC TTG CGG AAA ACC CGC AG-3'
34 bp-sense	5'-TGT CGA ATC ATT CGC CGC AAC AGC AAA AAC GAT T-3'
34 bp-antisense	5'-AAT CGT TTT TGC TGT TGC GGC GAA TGA TTC GAC A-3'