



T7 promoter → lac operator Xba I rbs Nco I His tag
 --- TAA TAC GAC TCA CTA TAG GGG AAT TGT GAG CGG ATA ACA ATT CCC CTC TAG AAA TAA TTT TGT TTA ACT TTA AGA AGG AGA TAT ACC ATG GGC AGC AGC CAT CAC
 M G S S H H

His tag BamHI EcoRI Sac I Pst I Sal I Hind III Not I
 CAT CAT CAC CAC AGC CAG GAT CCG AAT TCG AGC TCG GCG CGC CTG CAG GTC GAC AAG CTT GCG GCC GCA TAA TGC TTA AGT CGA ACA GAA AGT AAT CGT ATT GTA C
 H H H H S Q D P N S S S A R L Q V D K L A A A Stop

T7 promoter → lac operator rbs Nde I
 ACG GCC GCA TAA TCG AAA TTA ATA CGA CTC ACT ATA GGG GAA TTG TGA GCG GAT AAC AAT TCC CCA TCT TAG TAT ATT AGT TAA GTA TAA GAA GGA GAT ATA CAT ATG
 M

Bgl II EcoRV Kpn I Xho I S tag
 GCA GAT CTC AAT TGG ATA TCG GCC GGC CAC GCG ATC GCT GAC GTC GGT ACC CTC GAG TCT GGT AAA GAA ACC GCT GCT GCG AAA TTT GAA CGC CAG CAC ATG GAC TCG
 A D L N W I S A G H A I A D V G T L E S G K E T A A A K F E R Q H M D S

Blp I T7 terminator
 TCT ACT AGC GCA GCT TAA TTA ACC TAG GCT GCT GCC ACC GCT GAG CAA TAA CTA GCA TAA CCC CTT GGG GCC TCT AAA CGG GTC TTG AGG GGT TTT TTG ---
 S T S A A Stop