



T7 promoter → lac operator Xba I rbs  
 --- T AAT ACG ACT CAC TAT AGG GGA ATT GTG AGC GGA TAA CAA TTC CCC TCT AGA AAT AAT TTT GTT TAA CTT TAA GAA GGA GAT ---

Trx tag Msc I His tag  
 ATA CAT ATG AGC ... 315bp ... CTG GCC GGT TCT GGT TCT GGC CAT ATG CAC CAT CAT CAT CAT CAT TCT TCT GGT CTG GTG CCA CGC GGT TCT  
 M S ... 105aa ... L A G S G S G H M H H H H H S S G L V P R G S  
thrombin site

S tag Bgl II Kpn I  
 GGT ATG AAA GAA ACC GCT GCT GCT AAA TTC GAA CGC CAG CAC ATG GAC AGC CCA GAT CTG GGT ACC GAC GAC GAC GAC AAG  
 G M K E T A A A K F E R Q H M D S P D L G T D D D D K  
enterokinase site

Nco I EcoR V BamH I EcoR I Sac I Sal I Hind III Not I Xho I His tag  
 GCC ATG GCT GAT ATC GGA TCC GAA TTC GAG CTC CGT CGA CAA GCT TGC GGC CGC ACT CGA GCA CCA CCA CCA CCA CCA CTG AGA TCC GGC TGC TAA  
 A M A D I G S E F E L R R Q A C G R T R A P P P P P L R S G C Stop

Blp I T7 terminator  
 CAA AGC CC GAA AGG AAG CTG AGT TGG CTG CTG CCA CCG CTG AGC AAT AAC TAG CAT AAC CCC TTG GGG CCT CTA AAC GGG TCT TGA GGG GTT TTT TG ---