



* Site not unique in pEF-1/pENTR A and B

Frame A: 696-6
 Frame B: 708-1
 Frame C: 709-1
 Lac Z: 710-1

Recommended E.coli strain for propagation: TOP10F'

pEF/ENTR[A]MCS

EF-1 α forward priming site 3' end of hEF-1 α Intron 1
 GTTTGGATCT TGGTTCATTC TCAAGCCTCA GACAGTGGTT CAAAGTTTTT TTCTTCATT TCAGGTGTCG TGAGGAATTA
5' end of hEF-1 α Exon 2

T7 promoter/priming site Asp718 I Kpn I Bam HI Spe I
 GCTTGGTACT AATACGACTC ACTATAGGGA GACCCAAGCT GGCTAGTTAA GCT TGG TAC CGA GCT CGG ATC CAC
Trp Tyr Arg Ala Arg Ile His

Bst XI* EcoR I EcoR V BstX I* Not I Xba I*
 TAG TCC AGT GTG GTG GAA TTC TGC AGA TAT CCA GCA CAG TGG CGG CCG CTC GAG TCT AGA GGG CCC
 *** Ser Ser Val Val Glu Phe Cys Arg Tyr Pro Ala Gln Trp Arg Pro Leu Glu Ser Arg Gly Pro

Bst BI V5 epitope Polyhistidine region
 TTC GAA GGT AAG CCT ATC CCT AAC CCT CTC CTC GGT CTC GAT TCT ACG CGT ACC GGT CAT CAT CAC
 Phe Glu Gly Lys Pro Ile Pro Asn Pro Leu Leu Gly Leu Asp Ser Thr Arg Thr Gly His His His

Xba I* att L2
 CAT CAC CAT TGA GTTTATCTAG ACCCAGCTTT CTTGTACAA AGTTGGCATT TAAGAAAGCA
 His His His ***

TTGCTTATCA ATTTGTTGCA ACGAACAGGT CACTATCAGTCAAATAAAA TCATTATTTG CCATCCAGCT

pENTR reverse primer binding site
 GCAGCTCTGG CCCGTGTCTC AAAATCTCTGATGTTACATT

pEF/ENTR[B]MCS

EF-1 α forward priming site 3' end of hEF-1 α Intron 1
 GTTTGGATCT TGGTTCATTC TCAAGCCTCA GACAGTGGTT CAAAGTTTTT TTCTTCCATT TCAGGTGTCG TGAGGAATTA
5' end of hEF-1 α Exon 2

T7 promoter/priming site Asp718 I Kpn I Bam HI Spe I
 GCTTGGTACT AATACGACTC ACTATAGGGA GACCCAAGCT GGCTAGTTAA G CTT GGT ACC GAG CTC GGA TCC ACT
Leu Gly Thr Glu Leu Gly Ser Thr

Bst XI* EcoR I EcoR V BstX I* Not I Xba I*
 AGT CCA GTG TGG TGG AAT TCT GCA GAT ATC CAG CAC AGT GGC GGC CGC TCG AGT CTA GAG GGC CCG
 Ser Pro Val Trp Trp Asn Ser Ala Asp Ile Gln His Ser Gly Gly Arg Ser Ser Leu Glu Gly Pro

Bst BI V5 epitope Polyhistidine region
 CCG TTC GAA GGT AAG CCT ATC CCT AAC CCT CTC CTC GGT CTC GAT TCT ACG CGT ACC GGT CAT CAT CAC
 Arg Phe Glu Gly Lys Pro Ile Pro Asn Pro Leu Leu Gly Leu Asp Ser Thr Arg Thr Gly His His His

Xba I* att L2
 CAT CAC CAT TGA GTTTATCTAG ACCCAGCTTT CTTGTACAA AGTTGGCATT TAAGAAAGCA
 His His His ***

TTGCTTATCA ATTTGTTGCA ACGAACAGGT CACTATCAGTCAAATAAAA TCATTATTTG CCATCCAGCT

pENTR reverse primer binding site
 GCAGCTCTGG CCCGTGTCTC AAAATCTCTGATGTTACATT

pEF/ENTR[C]MCS

EF-1 α forward priming site 3' end of hEF-1 α Intron 1
 GTTTGGATCT TGGTTCATTC TCAAGCCTCA GACAGTGGTT CAAAGTTTTT TTCTCCATT TCAGGTGTCG TGAGGAATTA
5' end of hEF-1 α Exon 2

T7 promoter/priming site Asp718 I Kpn I Bam HI Spe I
 GCTTGGTACT AATACGACTC ACTATAGGGA GACCCAAGCT GGCTAGTTAA GC TTG GTA CCG AGC TCG GAT CCA CTA
Leu Val Pro Ser Ser Asp Pro Leu

Bst XI* EcoR I EcoR V Bst XI* Not I Bst EII Bst BI
 GTC CAG TGT GGT GGA ATT CTG CAG ATA TCC AGC ACA GTG GCG GCC GCT CGA GGT CAC CCA TTC GAA
 Val Gln Cys Gly Gly Ile Leu Gln Ile Ser Ser Thr Val Ala Ala Ala Arg Gly His Pro Phe Glu

V5 epitope Polyhistidine region
 GGT AAG CCT ATC CCT AAC CCT CTC CTC GGT CTC GAT TCT ACG CGT ACC GGT CAT CAT CAC CAT CAC CAT TGA
 Gly Lys Pro Ile Pro Asn Pro Leu Leu Gly Leu Asp Ser Thr Arg Thr Gly His His His His His His ***

Xba I* att L2
 GTTTATCTAG ACCCAGCTTT CTTGTACAA AGTTGGCATT TAAGAAAGCA

TTGCTTATCA ATTTGTTGCA ACGAACAGGT CACTATCAGTCAAATAAAA TCATTATTTG CCATCCAGCT
pENTR reverse primer binding site
 GCAGCTCTGG CCCGTGTCTC AAAATCTCTGATGTTACATT