



BglII **XbaI**

GTAGAGGATCGAGATCTCGATCCCGCGAAATTAATACGACTCACTATAGGGAGACCACAACGGTTTTCCCTCTAGA
 CATCTCCTAGCTCTAGAGCTAGGGCGCTTTAATTATGCTGAGTGATATCCCTCTGGTGTGCCAAAGGGAGATCT

4050

T7 promoter

NcoI

AATAATTTTGTTTAACTTTAAGAAGGAGATATACCATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCC
 TTATTAACAAATTGAAATTCCTTCTATATGGTACCCGTCGTCGGTAGTAGTAGTAGTAGTGTGTCGTCGCCGG

4125

1 5
His His His His His His Ser Ser Gly
6xHis thrombin site

NdeI XhoI BamHI

TGGTGCCGCGCGGCAGCCATATGCTCGAGGATCCGGCTGCTAACAAAGCCCCGAAAGGAAGCTGAGTTGGCTGCTG
 ACCACGGCGCGCCGTCGGTATACGAGCTCCTAGGCCGACGATTGTTTCGGGCTTTTCCTTCGACTCAACCGACGAC

4200

1 5
Leu Val Pro Arg Gly Ser His Met Leu Glu Asp Pro Ala Ala Asn Lys Ala Arg Lys Glu Ala Glu Leu Ala Ala
thrombin site (in frame with thrombin site) MCS

BlnI

CCACCGCTGAGCAATAACTAGCATAACCCCTTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTTTGCTGAAAGGAG
 GGTGGCGACTCGTTATTGATCGTATTGGGGAACCCCGGAGATTTGCCAGAACTCCCCAAAAAACGACTTTCCTC

4275

Ala Thr Ala Glu Gln *
T7 terminator