

CCTTATGCGACTCCTGCATTAGGAAGCAGCCCAGTAGTAGGTTGAGGCCGTTGAGCACCGCCGCCGCAAGGAATG
GGAATACGCTGAGGACGTAATCCTTCGTCGGGT CATCATCCA ACTCCGGCAACTCGTG GCGGGCGTTCCCTTAC

4650

GTGCATGCAAGGAGATGGCGCCCAACAGTCCCCCGGCCACGGGGCCTGCCACCATACCCACGCCGAAACAAGCGC
CACGTACGTTCTCTACCGCGGGTTGTCAGGGGGCCGGTGCCCCGGACGGTGGTATGGGTGCGGCTTTGTTTCGCG

4725

TCATGAGCCCGAAGTGGCGAGCCCGATCTTCCCATCGGTGATGTCGGCGATATAGGCGCCAGCAACCGCACCTG
AGTACTCGGGCTTACCGCTCGGGCTAGAAGGGGTAGCCACTACAGCCGCTATATCCGCGGTGCTTGCGGTGGAC

4800

TGGCGCCGGTGATGCCGGCCACGATGCGTCCGGCGTAGAGGATCGAGATCGATCTCGATCCCGCGAAATTAATAC
ACCGCGGCCACTACGGCCGGTGCTACGCAGGCCGCATCTCTAGCTCTAGCTAGAGCTAGGGCGCTTTAATTATG

4875

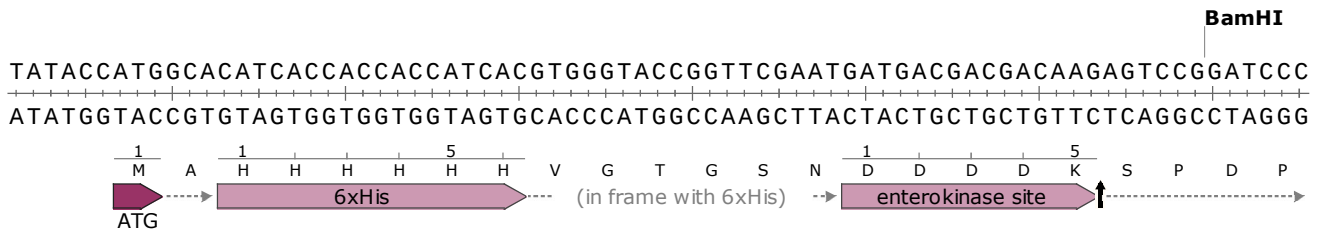
T7 promoter

GACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCTCTAGAAATAATTTGTTTAACTTTAAGAAGGAGA
CTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTATTAACAAATTGAAATTCCTTCTCT

4950

T7 promoter → lac operator

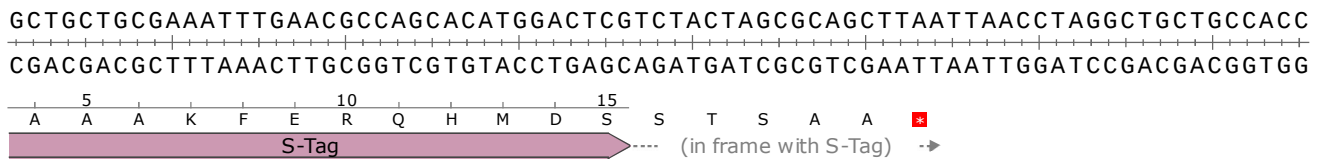
RBS



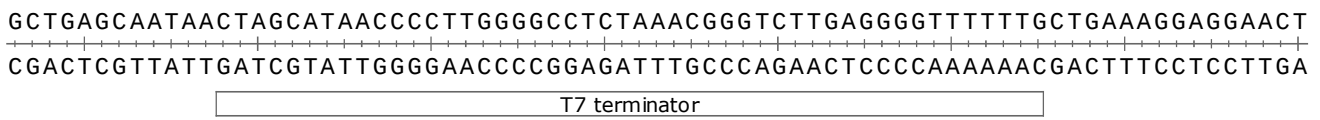
5025



5100



5175



5250

ATATCCGGAT 3'
 TATAGGCCTA 5' 5260