



TCCCGCGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAATAATTTTGT  
 AGGGCGCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTATTAAACAA

T7 promoter → lac operator

5175

TAACHTTAAGAAGGAGATATACCATGGCTAGCATGACTGGTGGACAGCAAATGGGTCGGATCCGAATTCGAGCTC  
 ATTGAAATCTTCTCTATATGGTACCGATCGTACTGACCACCTGTCGTTTACCCAGCCTAGGCTTAAGCTCGAG

5250

1 Met Ala Ser Met Thr Gly Gly Gln Gln Met Gly Arg Ile Arg Ile Arg Ala  
 T7 tag (gene 10 leader) → MCS

CGTCGACAAGCTTGC GGCCGCACTCGAGCACCACCACCACCACCCTGAGATCCGGCTGCTAACAAGCCCGAAA  
 GCAGCTGTTTCAACGCCGGCGTGAGCTCGTGGTGGTGGTGGTGGTGGTACTCTAGGCCGACGATTGTTTTGGGCTTT

Pro Ser Thr Ser Leu Arg Pro His Ser Ser Thr Thr Thr Thr Thr Thr Glu Ile Arg Leu Leu Thr Lys Pro Glu  
 (in frame with T7 tag (gene 10 leader))

5325

MCS → 6xHis