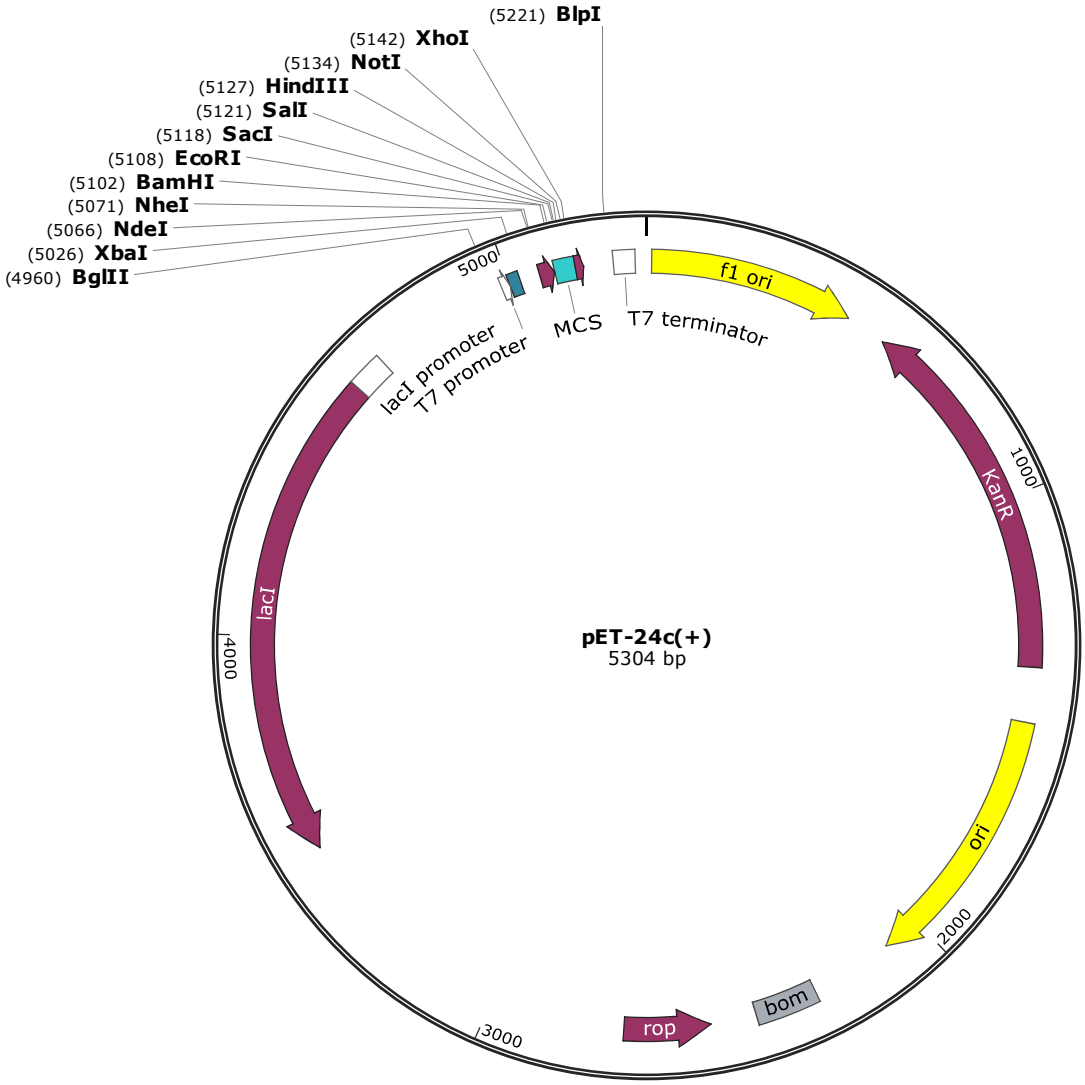

BglII

AGAGGATCGAGATCTCGATCCCGCGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCC 5025

TCTCCTAGCTCTAGAGCTAGGGCGCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGG

T7 promoter — lac operator

XbaI NdeI NheI

TCTAGAAATAATTTTGTTTAACTTTAAGAAGGAGATATACATATGGCTAGCATGACTGGTGGACAGCAAATGGGT 5100

AGATCTTTATTAAAACAAATTGAAATTCTTCCTCTATATGTATACCGATCGTACTGACCACCTGTCGTTTACCCA

1 5 10
Met Ala Ser Met Thr Gly Gly Gln Gln Met Gly

T7 tag (gene 10 leader)

BamHI EcoRI SacI SalI HindIII NotI XhoI

CGGATCCGAATTCGAGCTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCACCACCACTGAGATCCGG 5175

GCCTAGGCTTAAGCTCGAGGCAGCTGTTCGAACGCCGGCGTGAGCTCGTGGTGGTGGTGGTGGTGACTCTAGGCC

Arg Ile Arg Ile Arg Ala Pro Ser Thr Ser Leu Arg Pro His Ser Ser Thr Thr Thr Thr Thr Thr Glu Ile Arg

(in frame with T7 tag (gene 10 leader))

1 5
His His His His His His *

MCS — 6xHis