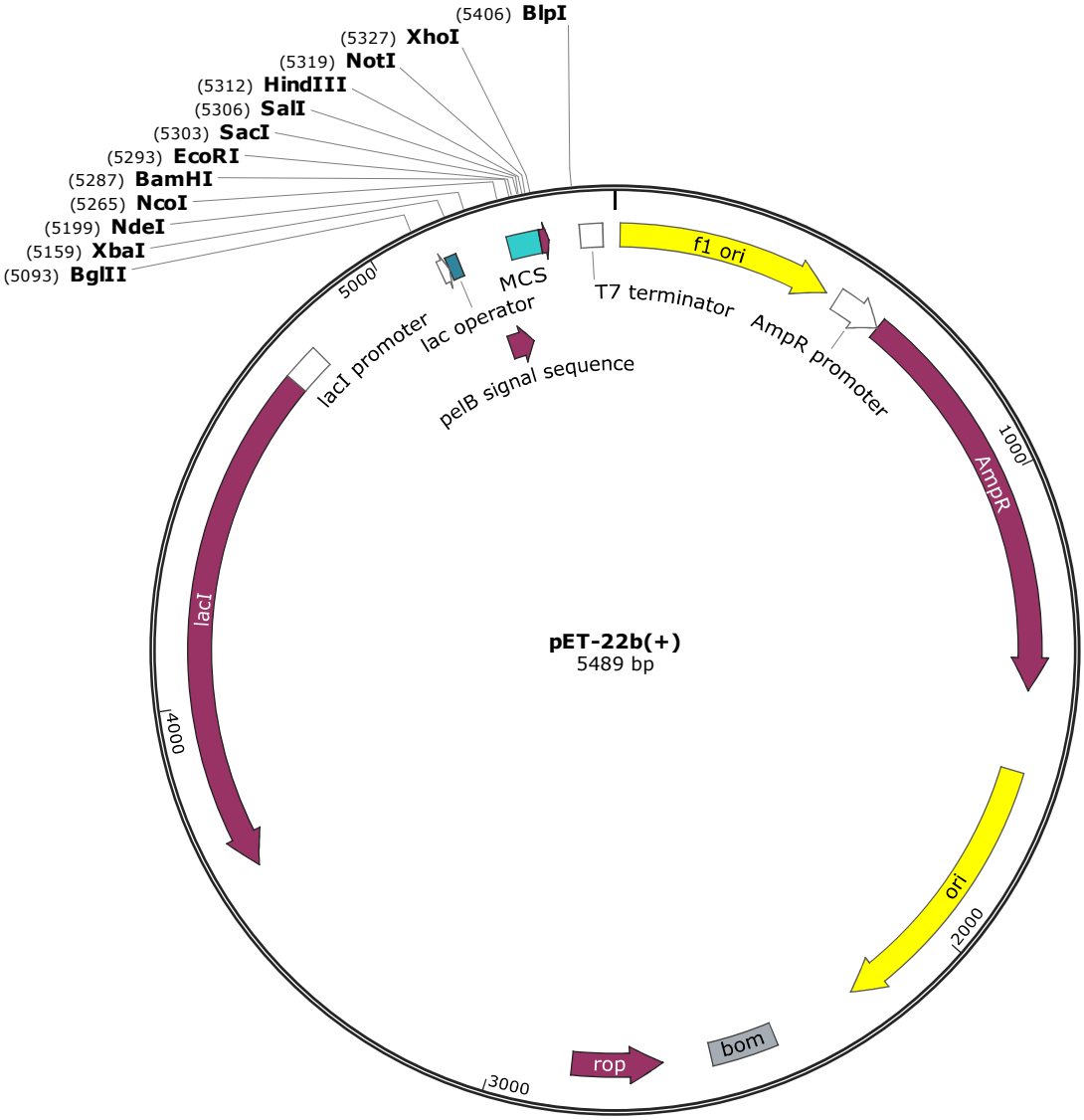

XbaI

ATCCCGCGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCCTCTAGAAATAATTTTGT 5175

TAGGGCGCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTATTAAAACA

T7 promoter — lac operator

NdeI

TTAACTTTAAGAAGGAGATATACATATGAAATACCTGCTGCCGACCGCTGCTGCTGGTCTGCTGCTCCTCGCTGC 5250

AATTGAAATTCTTCCTCTATATGTATACTTTATGGACGACGGCTGGCGACGACGACCAGACGACGAGGAGCGACG

1 5 10 15

Met Lys Tyr Leu Leu Pro Thr Ala Ala Ala Gly Leu Leu Leu Leu Ala Ala

pelB signal sequence

NcoI BamHI EcoRI SacI SalI HindIII NotI

CCAGCCGGCGATGGCCATGGATATCGGAATTAATTCGGATCCGAATTCGAGCTCCGTCGACAAGCTTGCGGCCGC 5325

GGTCGGCCGCTACCGGTACCTATAGCCTTAATTAAGCCTAGGCTTAAGCTCGAGGCAGCTGTTCGAACGCCGGCG

20

Gln Pro Ala Met Ala Met Asp Ile Gly Ile Asn Ser Asp Pro Asn Ser Ser Ser Val Asp Lys Leu Ala Ala Ala

pelB signal sequence — (in frame with pelB signal sequence)

MCS

XhoI

ACTCGAGCACCACCACCACCACCACTGAGATCCGGCTGCTAACAAAGCCCGAAAGGAAGCTGAGTTGGCTGCTGC 5400

TGAGCTCGTGGTGGTGGTGGTGGTGACTCTAGGCCGACGATTGTTTCGGGCTTTCCTTCGACTCAACCGACGACG

1 5

Leu Glu His His His His His His *

6xHis

MCS