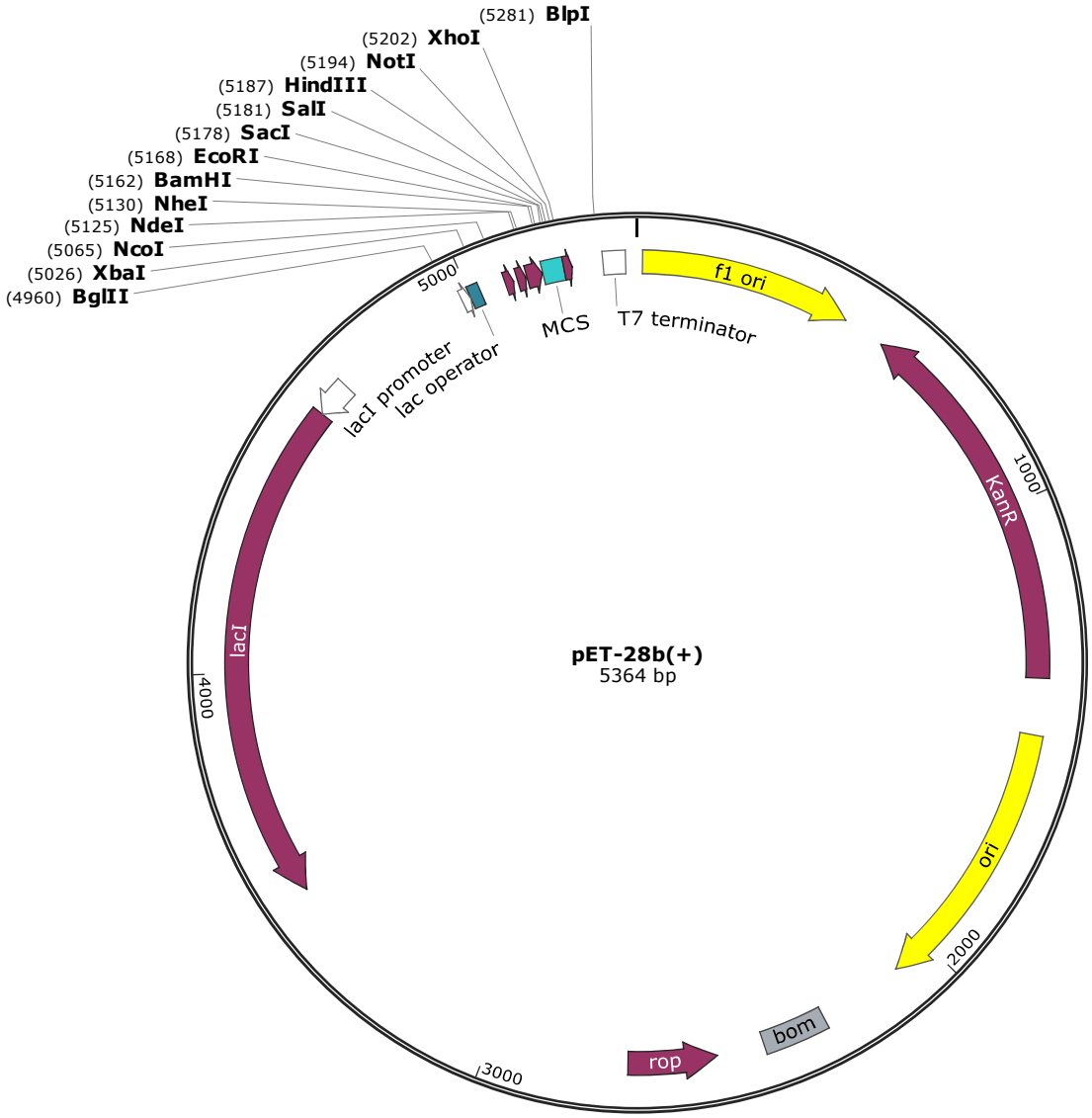

BglII

AGAGGATCGAGATCTCGATCCCGCGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGGATAACAATTCCCC 5025

TCTCCTAGCTCTAGAGCTAGGGCGCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGG

T7 promoter — lac operator

XbaI **NcoI**

TCTAGAAATAATTTTGTTTAACTTTAAGAAGGAGATATACCATGGGCAGCAGCCATCATCATCATCATCACAGCA 5100

AGATCTTTATTAAAACAAATTGAAATTCTTCCTCTATATGGTACCCGTCGTCGGTAGTAGTAGTAGTAGTGTCGT

1 His His His His 5 His His Ser

6xHis

NdeI **NheI** **BamHI** **EcoRI**

GCGGCCTGGTGCCGCGCGGCAGCCATATGGCTAGCATGACTGGTGGACAGCAAATGGGTCGGGATCCGAATTCGA 5175

CGCCGGACCACGGCGCGCCGTCGGTATACCGATCGTACTGACCACCTGTCGTTTACCCAGCCCTAGGCTTAAGCT

Ser Gly 1 Leu Val Pro Arg 5 Gly Ser His 1 Met Ala Ser Met Thr 5 Gly Gly Gln Gln 10 Met Gly Arg Asp Pro Asn Ser

thrombin site — T7 tag (gene 10 leader) — MCS

SacI **SalI** **HindIII** **NotI** **XhoI**

GCTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCACCACCACTGAGATCCGGCTGCTAACAAAGCCC 5250

CGAGGCAGCTGTTCGAACGCCGGCGTGAGCTCGTGGTGGTGGTGGTGGTGACTCTAGGCCGACGATTGTTTCGGG

Ser Ser Val Asp Lys Leu Ala Ala Ala Leu Glu 1 His His His His 5 His His *

(in frame with T7 tag (gene 10 leader)) — 6xHis

MCS