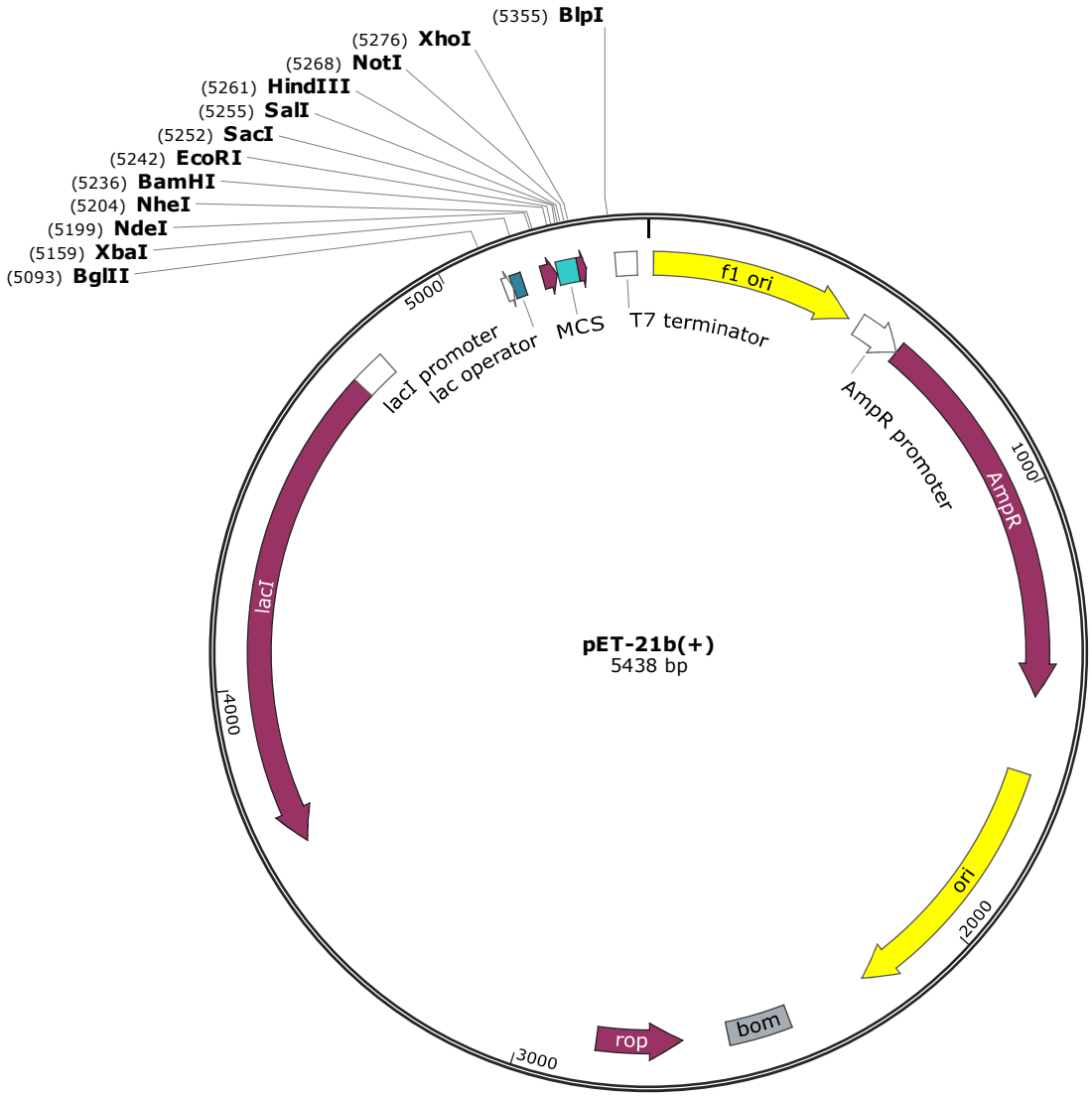
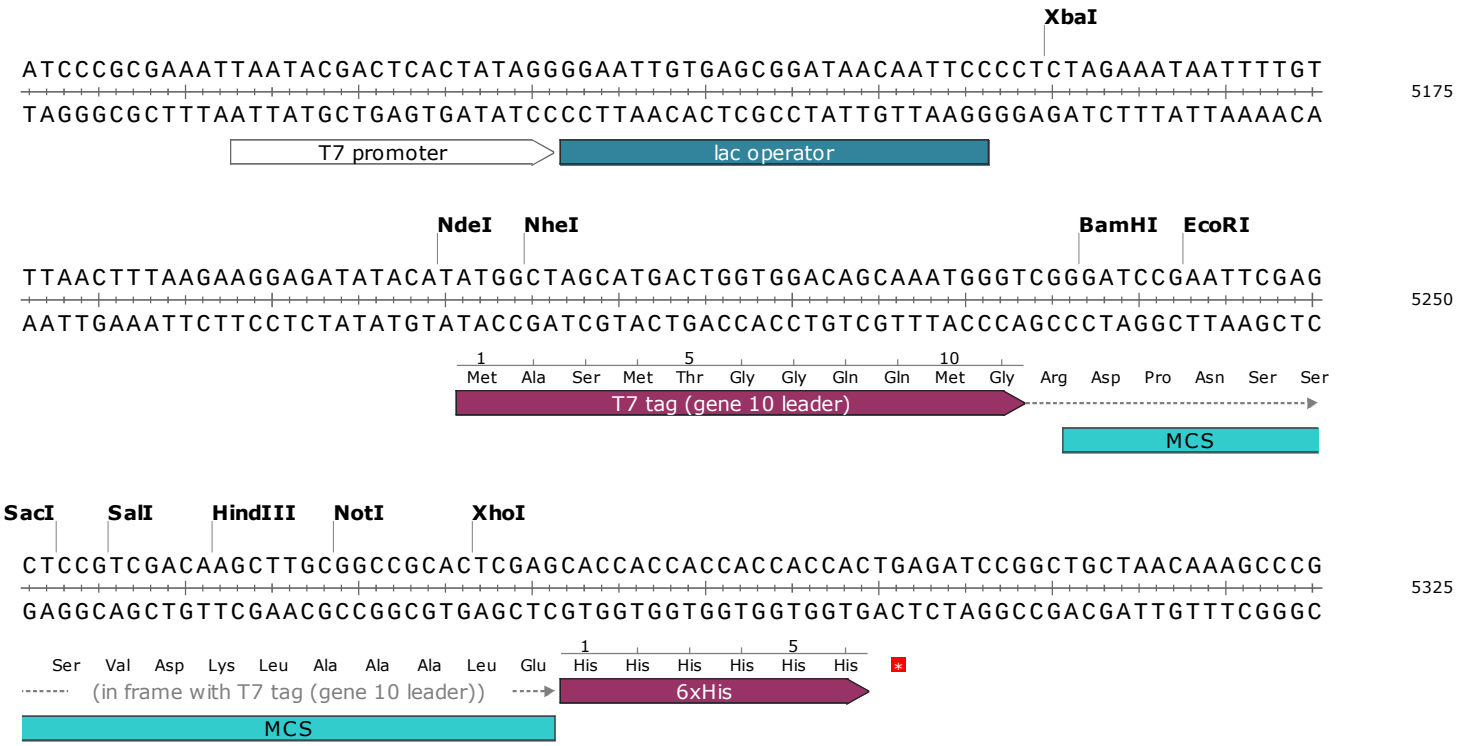

(5355) BlpI
(5276) XhoI
(5268) NotI
(5261) HindIII
(5255) SalI
(5252) SacI
(5242) EcoRI
(5236) BamHI
(5204) NheI
(5199) NdeI
(5159) XbaI
(5093) BglII
f1 ori
T7 terminator
MCS
lac operator
lacI promoter
AmpR promoter
AmpR
lacI
ori
rop
bom
pET-21b(+)
5438 bp
5000
1000
4000
2000
3000


XbaI
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TAGGGCGCTTTAATTATGCTGAGTGATATCCCCTTAACACTCGCCTATTGTTAAGGGGAGATCTTTATTAAAACA
5175
T7 promoter
lac operator
NdeI
NheI
BamHI
EcoRI
TTAACTTTAAGAAGGAGATATACATATGGCTAGCATGACTGGTGGACAGCAAATGGGTCGGGATCCGAATTCGAG
AATTGAAATTCTTCCTCTATATGTATACCGATCGTACTGACCACCTGTCGTTTACCCAGCCCTAGGCTTAAGCTC
5250
1 5 10
Met Ala Ser Met Thr Gly Gly Gln Gln Met Gly Arg Asp Pro Asn Ser Ser
T7 tag (gene 10 leader)
MCS
SacI
SalI
HindIII
NotI
XhoI
CTCCGTCGACAAGCTTGCGGCCGCACTCGAGCACCACCACCACCACCACTGAGATCCGGCTGCTAACAAAGCCCG
GAGGCAGCTGTTCGAACGCCGGCGTGAGCTCGTGGTGGTGGTGGTGGTGACTCTAGGCCGACGATTGTTTCGGGC
5325
1 5
Ser Val Asp Lys Leu Ala Ala Ala Leu Glu His His His His His His *
(in frame with T7 tag (gene 10 leader))
6xHis
MCS