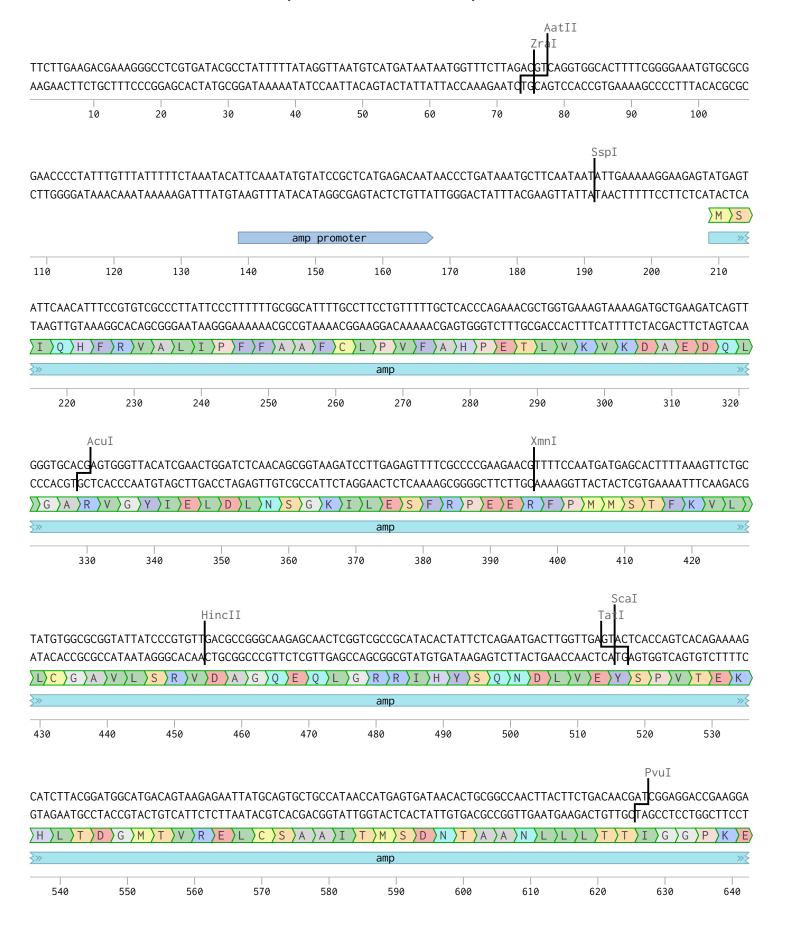
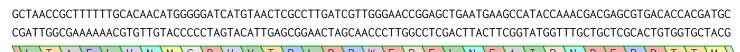
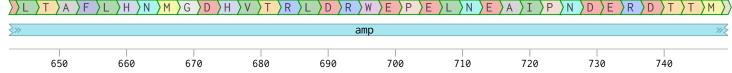
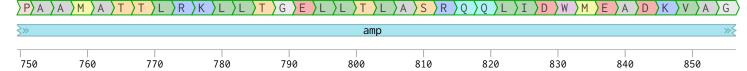
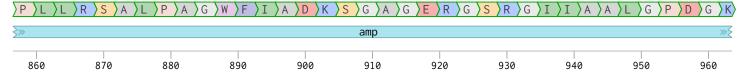
pET16b (6707 bp)







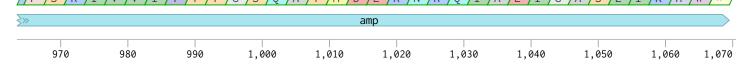




GCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACCGGGAGGGCATAGCATCAATAGATGTGCTGCCCCTCAGTCCGTTGATACCTACTTGCTTTATCTGTCTAGCGACTCTATCCACGGAGTGACTAATTCGTAACCATTG

\Delta \ Delta \ Delta

AhdI



TGTCAGACCAAGTTTACTCATATATACTTTAGATTGATTTAAAACTTCATTTTTAATTTAAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAAATC

ACAGTCTGGTTCAAATGAGATATATGAAATCTAACTAAATTTTGAAGTAAAAATTAAATTTTCCTAGATCCACTTCTAGGAAAAACTATTAGAGTACTGGTTTTAG

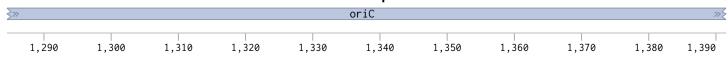
1,080 1,090 1,100 1,110 1,120 1,130 1,140 1,150 1,160 1,170

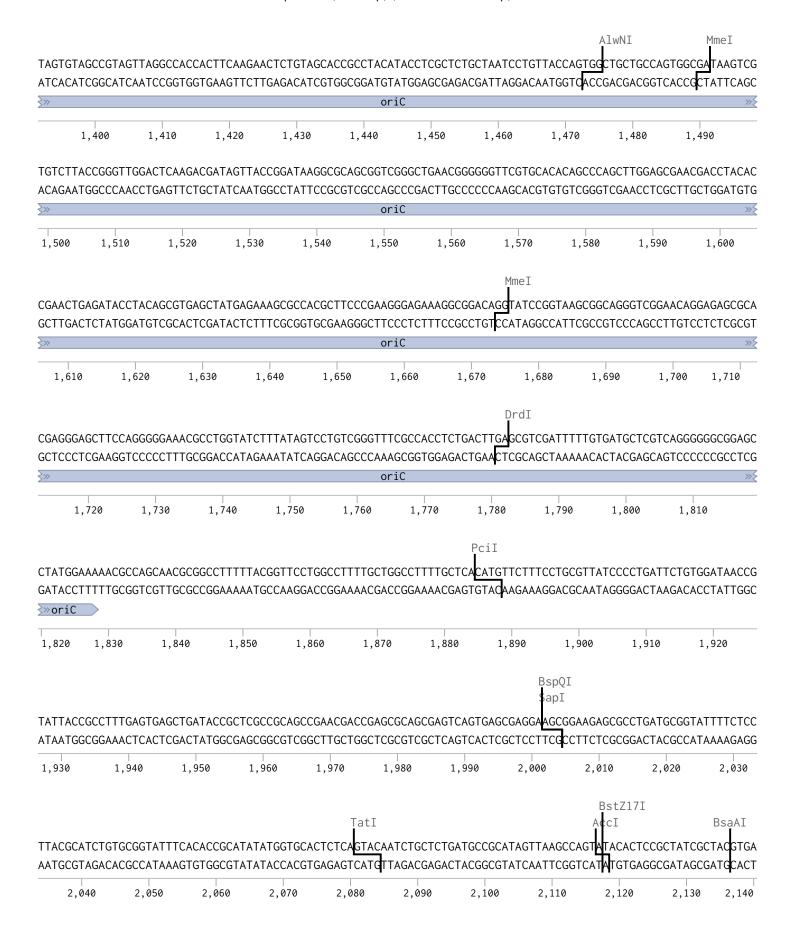


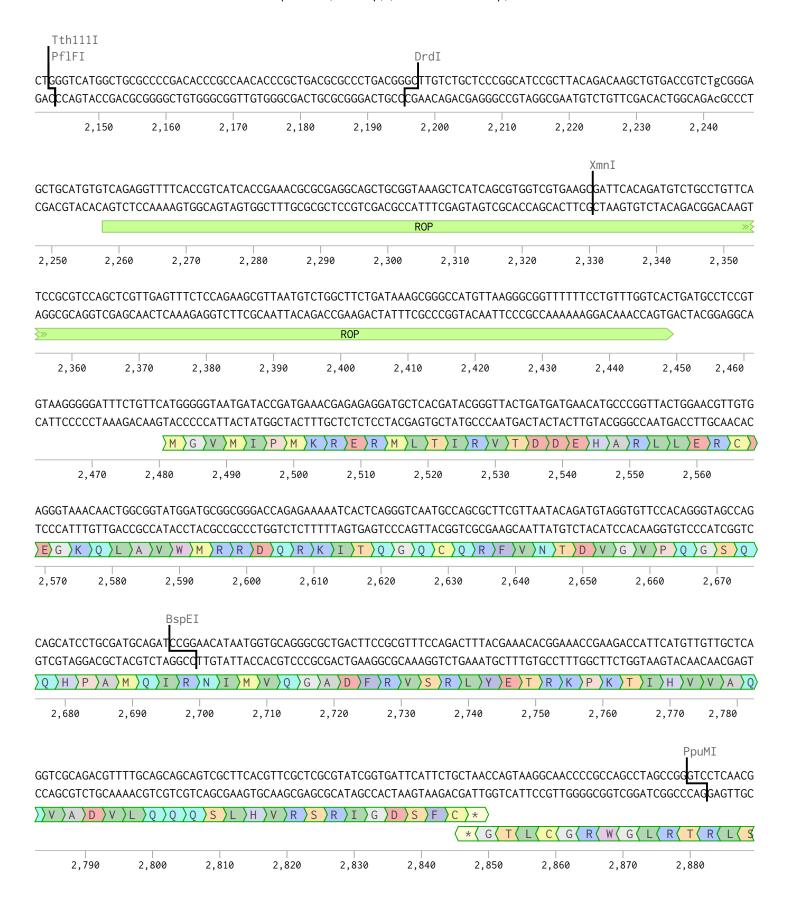
AcuI

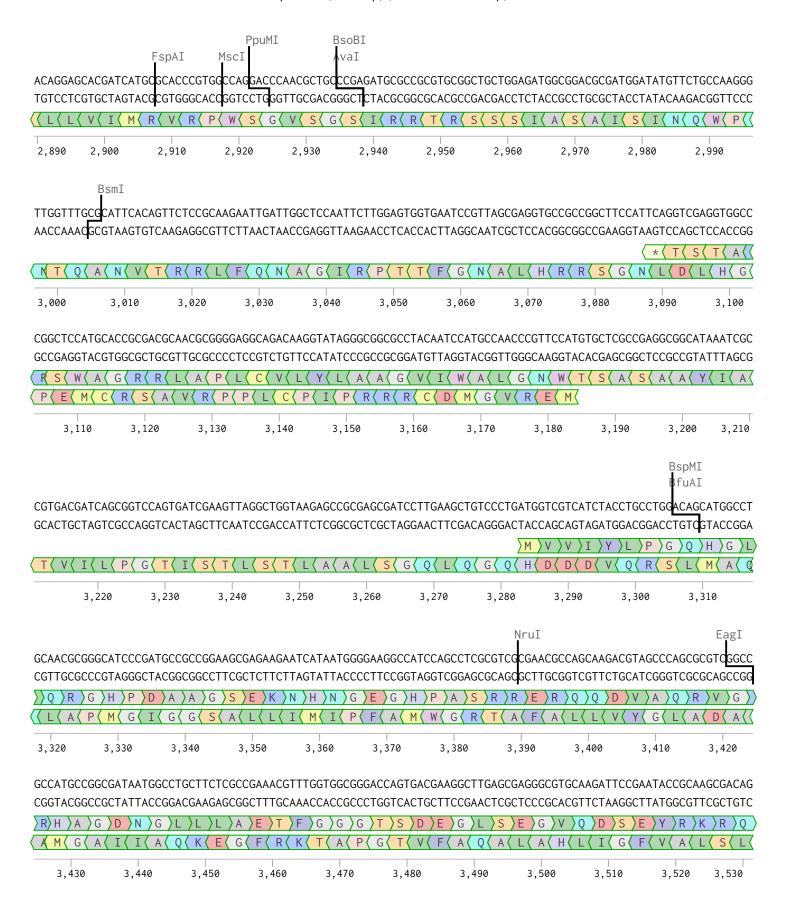
AAAACCACCGCTACCAGCGGTGGTTTGTTTGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGTAACTGGCTTCAGCAGAGCGCAGATACCAAATACTGTCCTTC

TTTTGGTGGCGATGGTCGCCACCAAACAACCGCCTAGTTCTCGATGGTTGAGAAAAAAGGCTTCCATTGACCGAAGTCGTCTCGCGTCTATGGTTTATGACAGGAAG



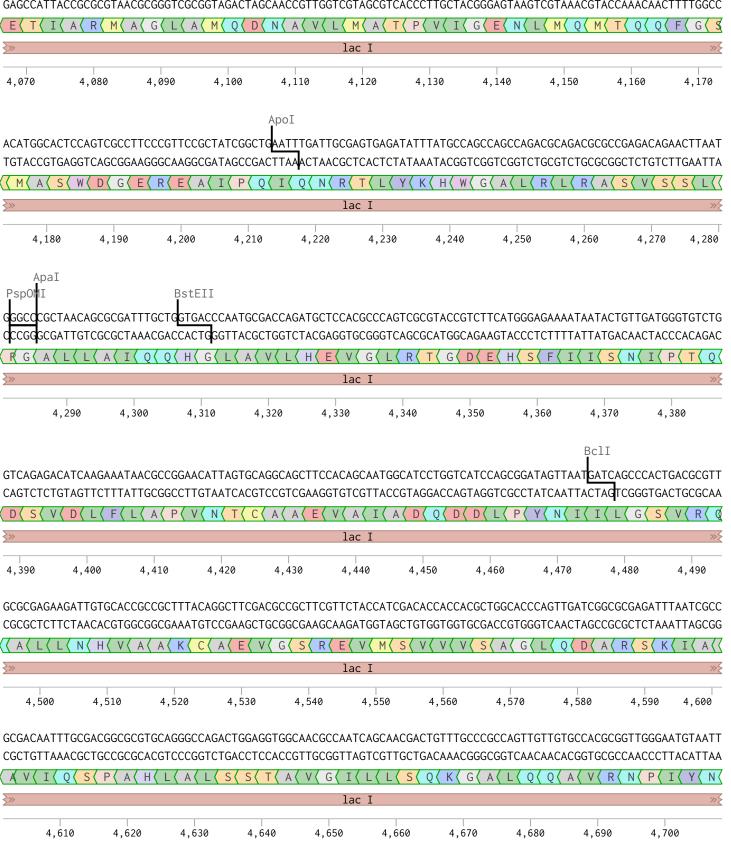


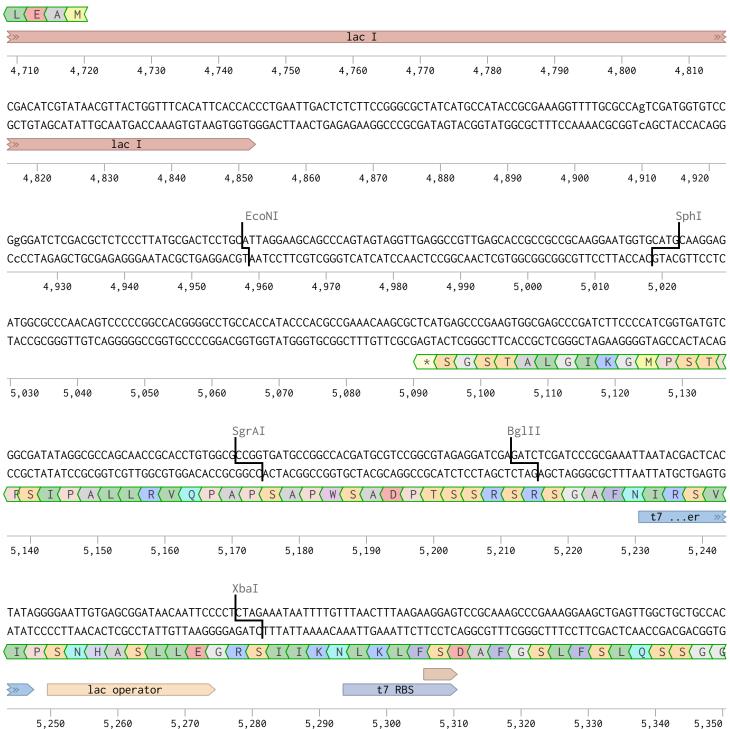


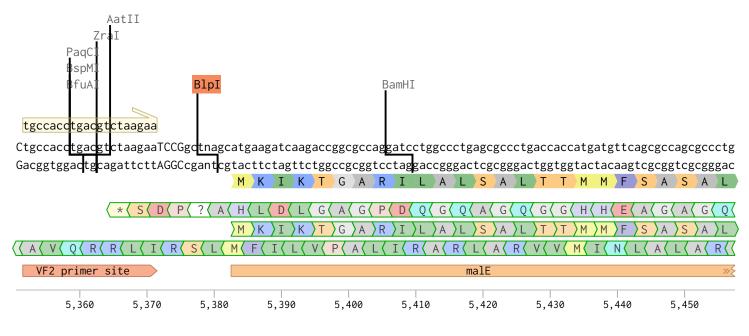


GCCGATCATCGTCGCGCTCCAGCGAAAGCGGTCCTCGCCGAAAATGACCCAGAGCGCTGCCGGCACCTGTCCTACGAGTTGCATGATAAAGAAGACAGTCATAAGTG CGGCTAGTAGCAGCGCGAGGTCGCTTTCGCCAGGAGCGGCTTTTACTGGGTCTCGCGACGGCCGTGGACAGGATGCTCAACGTACTATTTCTTCTGTCAGTATTCAC R G (3,540 3,550 3,560 3,570 3,580 3,590 3,600 3,610 3,620 3,630 PshAI G A D W V E G S Q G H R S R SN (F (R (L (P (M (G (R R (S (V 3.640 3.650 3.660 3.670 3.680 3.690 3.700 3,710 3,720 3,730 3.740 **BsaXI** TTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGGGGAGAGGCGGTTTGCGTATTGGGCG AATTAACGCAACGCGAGTGACGGGCGAAAGGTCAGCCCTTTGGACAGCACGGTCGACGTAATTACTTAGCCGGTTGCGCGCCCCTCTCCGCCAAACGCATAACCCGC P V G K R (0 (lac I 3,750 3,760 3,770 3,780 3,790 3,800 3,810 3,820 3,830 3,840 3,850 Esp3I SsmBI CCAGGGTGGTTTTTCTTTTCACCAGTGAGACGGCAACAGCTGATTGCCCTTCACCGCCTGGCCCTGAGAGAGTTGCAGCAAGCGGTCCACGCTGGTTTGCCCCAGC 0(N G κ(0 (G (0 (lac I 3,860 3,870 3,880 3,890 3,900 3,910 3,920 3,930 3,940 3,950 HincII lpaI **EcoRV** AGGCGAAAATCCTGTTTGATGGTGGTTAACGGCGGGATATAACATGAGCTGTCTTCGGTATCGTCGTATCCCACTACCGAGATATCCCGCACCAACGCCGCAGCCCGGA TCCGCTTTTAGGACAAACTACCACCAATTGCCGCCCTATATTGTACTCGACAGAAGCCATAGCAGCATAGGGTGATGGCTCTATAGGGCGTGGTTGCGCGTCGGGCCT $\rangle G \rangle E \rangle N \rangle P \rangle V \rangle *$ 3,960 3,970 3,980 3,990 4,000 4,010 4,020 4,030 4,040 4,050 4,060

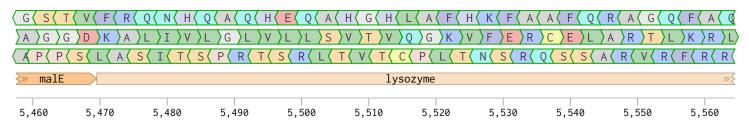
CTCGGTAATGGCGCCCATCGCGCCATCTGATCGTTGGCAACCAGCATCGCAGTGGGAACGATGCCCTCATTCAGCATTTGCATGGTTTGTTGAAAACCGGGAGCCATTACCGCGCGTAACCGCGGTAGACTAGCAACCAGCTTGGTCGTAGCGTCACCCTTGCTACGGGAGTAAGTCGTAAACGTACCAAACAACTTTTGGCC

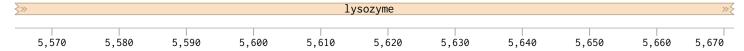






 $\label{thm:constraint} gccggaggtgacaaagcgctgattgtgctcgtggtgctcctgagcgtgaccgtgcagggcaaagtgtttgaacgctgcgaactggcgcaccctgaaacgcct\\ cggcctccactgtttcgcgactaacacgacccggaccacgaggactcgcactggcacgtccgtttcacaaacttgcgacgcttgaccgcgtgggactttgcgga\\ \begin{tabular}{c} A & G & D \end{tabular}$





PvuI

