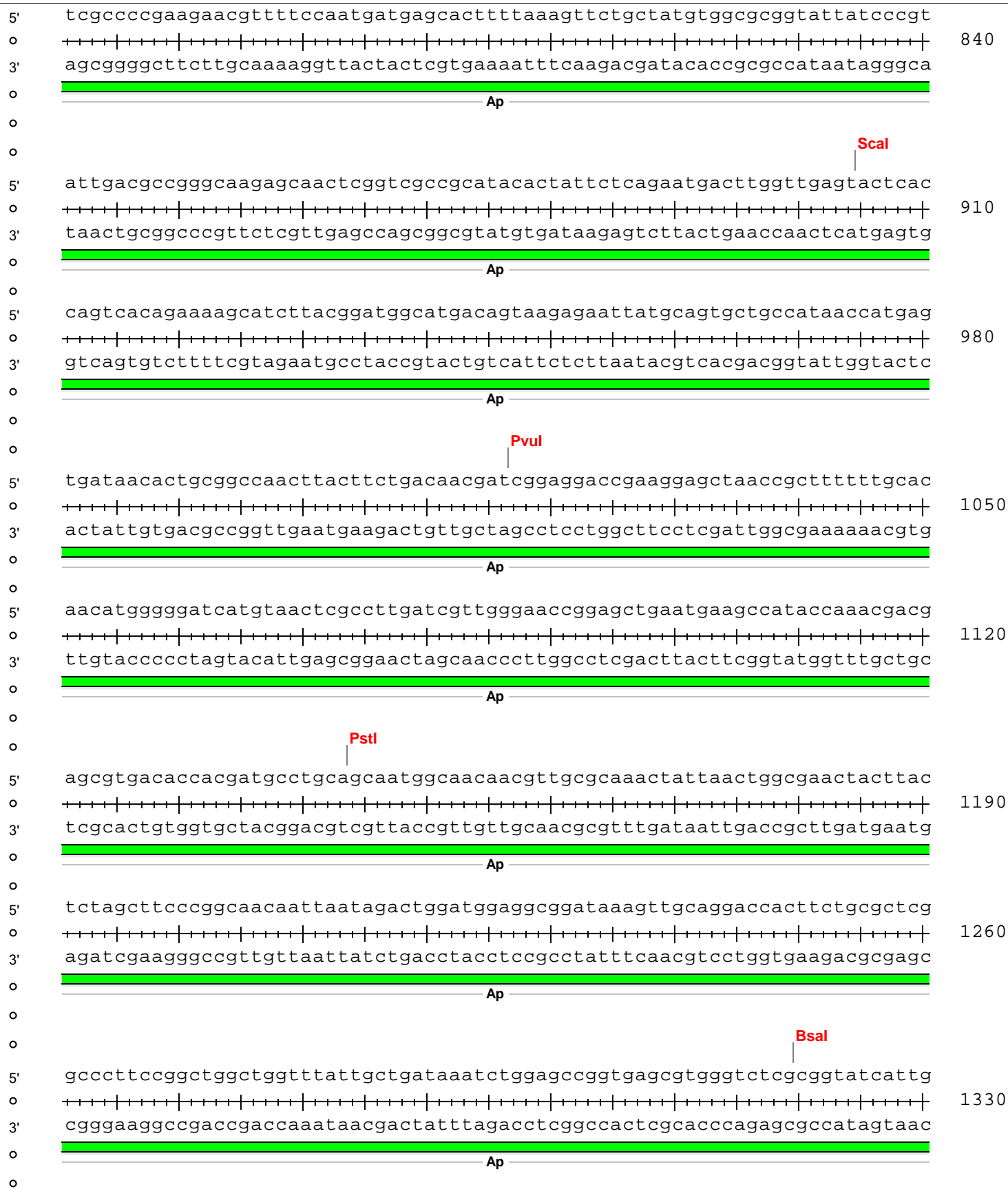


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 Ori

5' acgagggagcttccaggggaaacgcctggtatctttatagtcctgtcgggttcgccacctctgacttg
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 Ori

5' agcgtcgatTTTTgtgatgctcgtcagggggcggagcctatggaaaaacgccagcaacgcggcctttt
 2240
 3' tcgcagctaaaaaactacgagcagtcccccgcctcggatacctttttgcggtcgttgcgccggaaaaa
 Ori

5' acggttctctggccttttgctggccttttgctcacatgttctttcctgcgttatcccctgattctgtggat
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 PciI

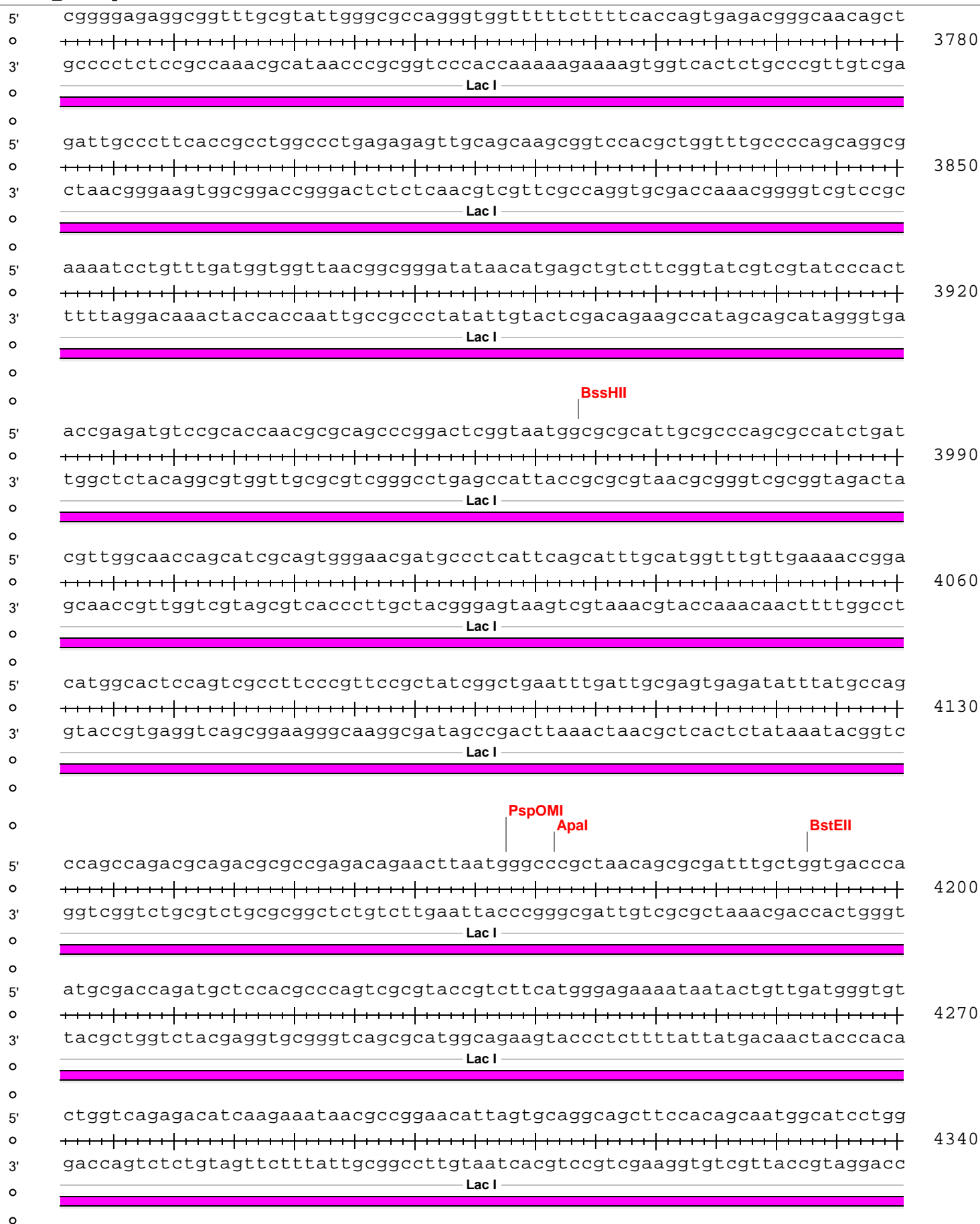
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 SapI

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 BstZ17I

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 Tth111I

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 2800
 3' cagacggacaagtaggcgcaggtcgagcaactcaaagaggtcttcgcaattacagaccgaagactatttc

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o
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o
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Lac I
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BGH89_B01c-pET32-DEST

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Trx Tag

5530

G E V A A T K V G A L S K G Q L K E F L D A N L
 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108

MscI

5' ggccggttctggttctggccatatgcaccatcatcatcattcttctggtctggtgccacgcggttct
 3' ccggccaagaccaagaccggtatacgtggtagtagtagtaagaagaccagaccacggtgcgccaaga

5600

T...g **His6-tag** **Thrombin**

A G S G S G H M H H H H H S S G L V P R G S
 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131

BstBI

Acc65I
KpnI

5' ggtatgaaagaaaccgctgctgctaaattcgaacgccagcacatggacagcccagatctgggtaccgacg
 3' ccatactttcttggcgacgacgatttaagcttgcggtcgtgtacctgtcgggtctagacctatggctgc

5670

G M K E T A A A K F E R Q H M D S P D L G T D
 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154

5' acgacgacaaggccatggcgatATCAACAAGTTTGTACAAAAAAGCAGGCTctgaaaacttgtactttca
 3' tgctgctgttccggtaccgctaTAGTTGTTCAAACATGTTTTTTCGTCCGAgacttttgaacatgaaagt

5740

Enterokinase **attB1** **TEV site**

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D D D K A M A I S T S L Y K K A G S E N L Y F Q
 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178

5' aggcGAGGTTTCTGATTTCAGGAGATGGAAAGGTTTTAATAAAGGGGAATAATGGTGTTCCTTAGCATCA
 3' tccgCTCCAAAGACTAAGTCTTACCTTCCAAAATTATTTCCCCTTATTACCACAAAGGAATCGTAGT

5810

T... **BGH89_B01c**

BGH89_B01c-pDONR221

G E V S D S G D G K V L I K G N N G V S L A S
 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201

BGH89_B01c-pET32-DEST

5' AGGATTATTATTATGCTAGATGGGAAAAATGGATAAATGGATTACAAGCTGAATTAGATGGAGGAGCTAA
 0 ++++++
 3' TCCTAATAATAATACGATCTACCCTTTTACCTATTTACCTAATGTTTCGACTTAATCTACCTCCTCGATT

7630

BGH89_B01c

BGH89_B01c-pDONR221

E D Y Y Y A R W E K W I N G L Q A E L D G G A K
 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808

BseRI

5' AGCCCCTAATATAGATTGGTTTAAGATGGAGTATGACTGGGTAAACAAGAAGAGTGATACAGATAAGCTT
 0 ++++++
 3' TCGGGGATTATATCTAACCAAATTCTACCTCATACTGACCCATTTGTTCTTCTCACTATGTCTATTCGAA

7700

BGH89_B01c

BGH89_B01c-pDONR221

A P N I D W F K M E Y D W V N K K S D T D K L
 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831

5' TATCCTACAGAAGCTTCTAATGAAAAGTTAGGAGAACTTGCTAAGATAGCCATGGAAAGTTATTCAGTAA
 0 ++++++
 3' ATAGGATGTCTTCGAAGATTACTTTTGAATCCTCTTGAACGATTCTATCGGTACCTTTCAATAAGTCATT

7770

BGH89_B01c

BGH89_B01c-pDONR221

Y P T E A S N E N L G E L A K I A M E S Y S V
 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854

5' CTAATATGGATAAAAATATTAGGTGAAAATGAATAGGACCCAGCTTTCTTGTACAAAGTGGTTGATatcgg
 0 ++++++
 3' GATTATACCTATTTTATAATCCACTTTTACTTATCCTGGGTCGAAAGAACATGTTTCACCAACTatagcc

7840

BGH89_B01c

attB2

BGH89_B01c-pDONR221

T N M D K I L G E N E
 855 856 857 858 859 860 861 862 863 864 865 866

BamHI

EcoICRI

SacI

Sall

NotI

EagI

PspXI

XhoI

AvaI

BmeT110I

5' atccgaattcgagctccgctcgacaagcttgcggccgcactcgagcaccaccaccaccactgagatcc
 0 ++++++
 3' taggcttaagctcgaggcagctgttcgaacgccggcgtgagctcgtggtggtggtggtggtgactctagg

7910

BplI

5' ggctgctaacaagcccgaaaggaagctgagttggctgctgccaccgctgagcaataactagcataacc
 0 ++++++
 3' ccgacgattgtttcgggctttccttcgactcaaccgacgacggtgccgactcgttattgatcgtattggg

7980

T7 Terminator

