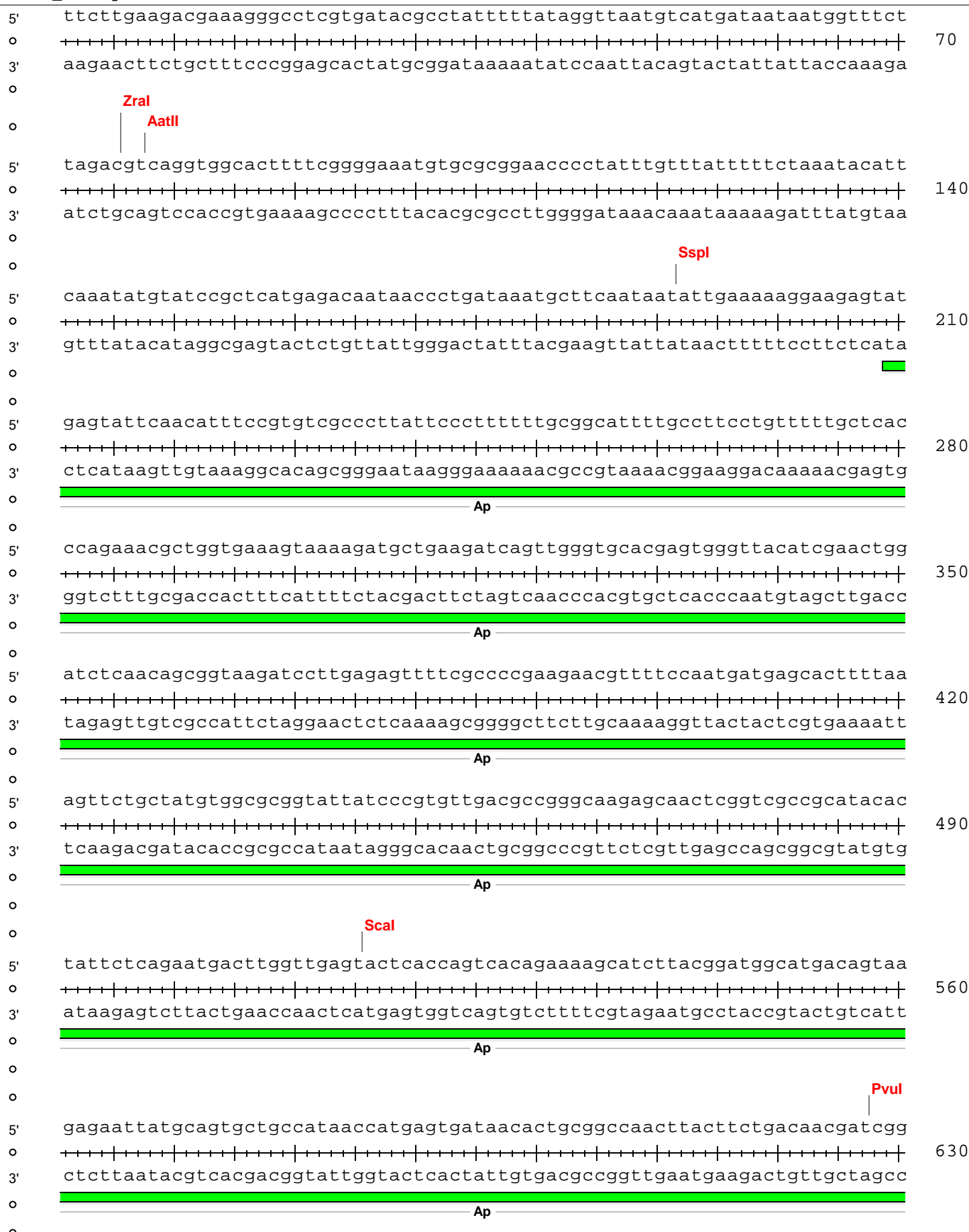


BGH30_B01b-pET16-DEST



BGH30_B01b-pET16-DEST

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3'  gcattagacgacgaacgtttggttttgggtggcgatggtcgcccacaaacaaacggcctagttctcgat
o  Ori
o
5'  ccaactcttttccgaaggtaactggcttcagcagagcgcagataccaaatactgtccttctagtgtagc
o  +++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|
3'  ggttgagaaaaaggcttccattgaccgaagtctgtctcgctctatggtttatgacaggaagatcacatcg
o  Ori
o
5'  cgtagttaggccaccacttcaagaactctgtagcaccgcctacatacctcgctctgctaactctgttacc
o  +++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|
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o  Ori
o
5'  agtggctgctgccagtggcgataagtctgttaccgggttgactcaagacgatagttaccggataag
o  +++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|
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o  Ori
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5'  gcgacgaggcgggctgaacggggggttcgtgcacacagcccagcttgagcgaacgacctacaccgaac
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o  Ori
o
5'  tgagatacctacagcgtgagctatgagaaagcgccacgcttcccgaaggagaaaggcggacaggtatcc
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o
5'  ggtaagcggcagggtcggaacaggagagcgcacgagggagcttccaggggaaacgcctggtatctttat
o  +++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|
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o
5'  agtctgtcgggtttcgccacctctgacttgagcgtcgatcttggatgctcgtcagggggcggagcc
o  +++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|
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5'  ctttcctgcggttatcccctgattctgtggataaccgtattaccgccttggagtgagctgataccgctcgc
o  +++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|
3'  gaaaggacgcaataggggactaagacacctattggcataatggcggaaactcactcgactatggcgagcg
o

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Pcil

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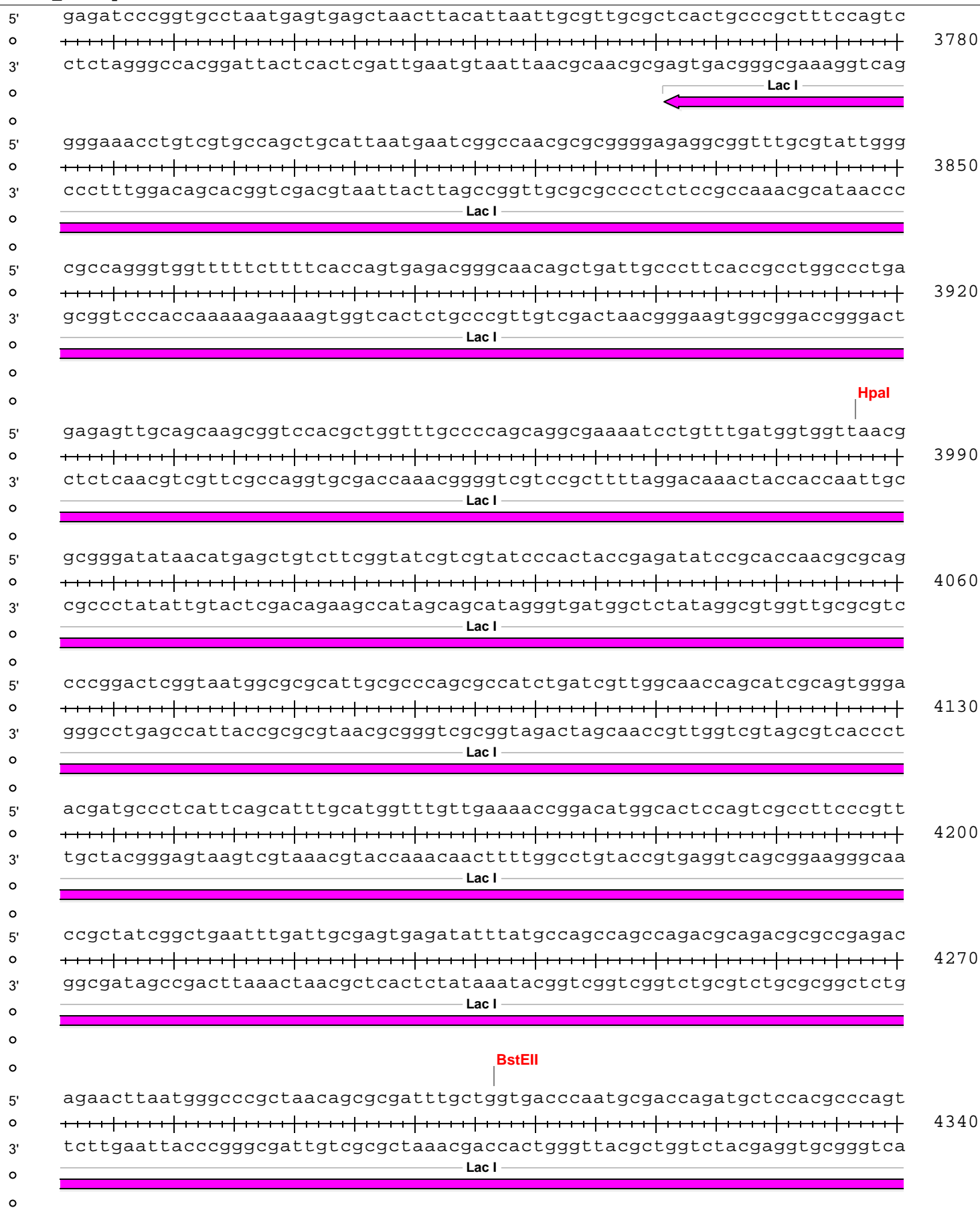
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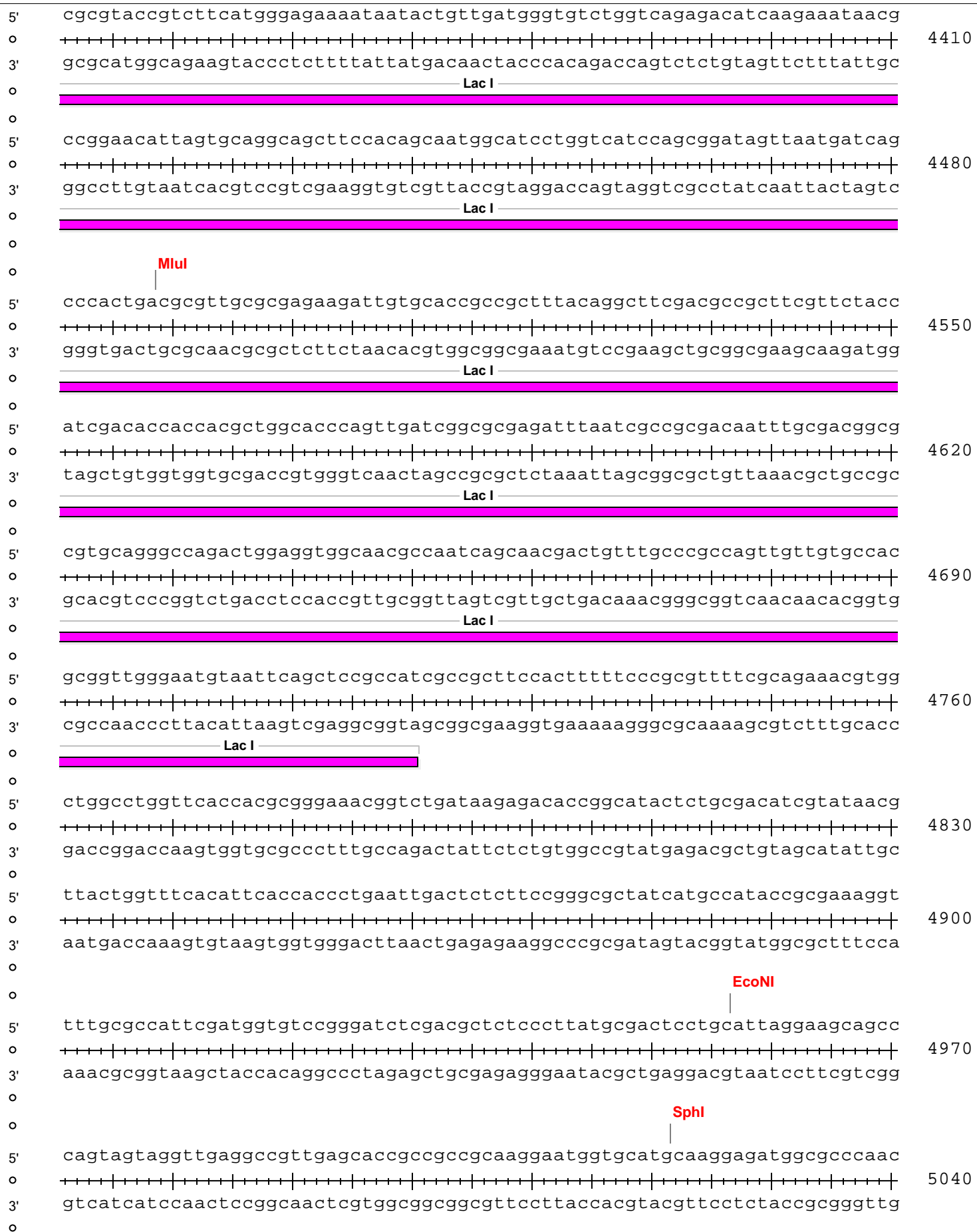
NruI

EagI

BGH30_B01b-pET16-DEST



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BGH30_B01b-pET16-DEST

5' TCTCGCTCAAACCCGCGCAACAGGCGCCGAAACCGACACCGCCATTTTCGTCAACCCGGACAAGCGCTA
 0 ++++++
 3' AGAGCGAGTTTGGGCGCGTTGTCCGCGCCTTTGGCTGTGGCGGTAAAAGCAGTTGGGCCTGTTCGCGAT

5600

BGH30_B01b

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L S L K P A Q Q A P E T D T A I F V N P D K R Y
 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95

5' CCAAACCCCTGCTCGGTATTGGCGGCGCTATCACCGATGCCAGCGCCGAGGTGTATGCAACACTCGATCAA
 0 ++++++
 3' GGTTTGGGACGAGCCATAACCGCCGCGATAGTGGCTACGGTCGCGGCTCCACATACGTTGTGAGCTAGTT

5670

BGH30_B01b

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Q T L L G I G G A I T D A S A E V Y A T L D Q
 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118

5' AAAACGCAGCGGGAATTTATGCAGGCTTACTATGACCAGGACAAGGGTCTGGGCTACAGCCTGCTGCGCA
 0 ++++++
 3' TTTTGCCTCGCCCTTAAATACGTCCGAATGATACTGGTCCTGTTCCAGACCCGATGTTCGGACGACGCGT

5740

BGH30_B01b

BGH30_B01b-pDONR221

K T Q R E F M Q A Y Y D Q D K G L G Y S L L R
 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141

5' CCACCATCCACAGCTCCGACTTTGCCAGCAGCAGCTACACCTATATCGAAGAGGGCGACAAAGCGCTTAA
 0 ++++++
 3' GGTGGTAGGTGTCGAGGCTGAAACGGTCGTCGTTCGATGTGGATATAGCTTCTCCGCTGTTTCGCGAATT

5810

BGH30_B01b

BGH30_B01b-pDONR221

T T I H S S D F A S S S Y T Y I E E G D K A L N
 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165

5' CACCTTTGATATAACGCCGATAAAAAACCCGCATCCCCATGATCAAGCAGGCCATCCGGGCCGCGGC
 0 ++++++
 3' GTGGAAACTATATTGCGGCCTATTTTTTGTGGCGTAGGGGTAAGTTCGTCCGGTAGGCCCGGCGGCCG

5880

SfiI

BGH30_B01b

BGH30_B01b-pDONR221

T F D I T P D K K H R I P M I K Q A I R A A G
 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188

BGH30_B01b-pET16-DEST

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 3' CCGTCGTAGTGGTGGATGCGGTCGGGGACCTCGCGTGGCCGAAATACTTTCTGTGGTTGTTATACGACG

5950

BGH30_B01b

BGH30_B01b-pDONR221

G S I T T Y A S P W S A P A F M K D T N N M L
 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211

5' AAGGCGGCAAGCTGCTGCCCGAATACCGCGACACCTGGGCCACCTACTTCACCAAATTTATCCGCGCCTA
 3' TTCCGCCGTTTCGACGACGGGCTTATGGCGCTGTGGACCCGGTGGATGAAGTGGTTTAAATAGCGCGGAT

6020

BGH30_B01b

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Q G G K L L P E Y R D T W A T Y F T K F I R A Y
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5' TGAGCAGGAAGGCATTCCGATTTGGGGGATTACCGTACAAAACGAACCCATGGCCAAGCAAACCTGGGAA
 3' ACTCGTCCTTCCGTAAGGCTAAACCCCTAATGGCATGTTTTGCTTGGGTACCGGTTTCGTTGGACCTT

6090

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E Q E G I P I W G I T V Q N E P M A K Q T W E
 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258

SaclI

5' TCGATGATTTTCACCGCGGAAGAAGAGCGCGATTTCTCAAAAACCACCTGGGCCCGATCATGCACACAT
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6160

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5' CCGGCCTGGGCGATAAAAAATCATCGTGTGGGATCACAACCGCGACCTGATCACGCACCGCGCCAACAC
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6230

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S G L G D K K I I V W D H N R D L I T H R A N T
 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305

BGH30_B01b-pET16-DEST

BbvCI

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6300

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I L S D P E A A K Y V W G V G F H W Y E T W T
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5' GGCGGCCAACCCATGTTTCGGCAACGTGGCCGAAGTCAAGCAGGCATTTCCCGCATATCAACCTGCTGCTCA
 3' CCGCCGGTTGGGTACAAGCCGTTGCACCGGCTTCAGTTCGTCCGTAAGGGCGTATAGTTGGACGACGAGT

6370

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G G Q P M F G N V A E V K Q A F P H I N L L L
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5' CCGAAGCCACGGTGGAAAAATTTGATGCGGCGCGCTACCACCACTGGCCCAATGCCGAACGCTACGGCAA
 3' GGCTTCGGTGCACCTTTTTAAACTACGCCGCGCGATGGTGGTGACCGGGTTACGGCTTGCGATGCCGTT

6440

BGH30_B01b

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T E A T V E K F D A A R Y H H W P N A E R Y G N
 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375

5' CTCCATCGTCAATGACTTCAACGCCGGCGCGGCAGGCTGGACCGACTGGAATATGCTGCTGGACGATAAA
 3' GAGGTAGCAGTTACTGAAGTTGCGGCCGCGCCGTCCGACCTGGCTGACCTTATACGACGACCTGCTATTT

6510

BGH30_B01b

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S I V N D F N A G A A G W T D W N M L L D D K
 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398

5' GGCGGCCCAACCATGTCAGCAATTTCTGCTTCGCCCCATTACGCCGACAGCAAACCGGCAAGCTGA
 3' CCGCCGGGGTTGGTACAGTCGTTAAAGACGAAGCGGGGGTAAGTGCGGCTGTCTGTTTTGGCCGTTTCGACT

6580

BGH30_B01b

BGH30_B01b-pDONR221

G G P N H V S N F C F A P I H A D S K T G K L
 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421

BGH30_B01b-pET16-DEST

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o

3' AAATGTGGGGCTGGATAATGATGGAGCCGGTGAAGAGCGCGAAATAGGCGGGACTCCGCGTCGCCCAGTC

o

————— BGH30_B01b —————

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————— BGH30_B01b-pDONR221 —————

6650

I Y T P T Y Y Y L G H F S R F I R P E A Q R V S

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6720

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o

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————— BGH30_B01b —————

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————— BGH30_B01b-pDONR221 —————

6790

V L N L S D A A V T Y R F Y I G T Q E T T V T

o

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o

5' TCCCCGCGCGCCATCCAAACGCTGGTGTATTAGGACCCAGCTTCTTGTACAAAGTGGTTGATtgcgag

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3' AGGGGCGCGCGGTTAGGTTTGCACCACATAATCCTGGGTCGAAAGAACATGTTTCACCAACTAagctc

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————— BGH30_B01b —————

o

————— BGH30_B01b-pDONR221 —————

o

————— attB2 —————

6860

I P A R A I Q T L V Y .

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3' ctaggccgacgattgtttcgggctttccttcgactcaaccgacgacggtggcgactcgttattgatcgta

o

————— T7 Terminator —————

6930

o

5' aacccttggggcctctaaacgggtcttgaggggttttttgctgaaaggaggaactatatccggatatcc

o

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o

————— T7 Terminator —————

7000

BGH30_B01b-pET16-DEST

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o ++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|++++|
3' actgctactcgcgtaacaatctaaagtatgtgccacggactgacgcaatcgttaaattgacactatttga 7140

o **HindIII** | | **EcoRI**

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