

BGH01_B01b-pET16-DEST

```

5'  ttcttgaagacgaaagggcctcgtgatacgcctatTTTTATAGGTTAATGTCATGATAATAATGGTTTCT
0  +-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'  aagaacttctgcttccccgggagcactatgCGGATAAAAATATCCAATTACAGTACTATTATTACCAAAGA
0

```

70

Zral
 |
 AatII
 |

```

5'  tagacgtcaggtggcactTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTATTTTTCTAAATACATT
0  +-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'  atctgcagtcaccCGTGAAAAGCCCCTTACACGCGCCTTGGGGATAAACAAATAAAAAGATTTATGTA
0

```

140

```

5'  caaatatgtatccgctcatgagacaataaccctgataaatgcttcaataatattgAAAAAGGAAGAGTAT
0  +-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'  gTTTATACATAGGCGAGTACTCTGTTATTGGGACTATTTACGAAGTATTATAACTTTTTCTTCTCATA
0

```

210

```

5'  gagtattcaacatttccgtgtcgcccttattccctTTTTGCGGCATTTGCTTCTCTGTTTTGCTCAC
0  +-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'  CTCATAAGTTGTAAGGCACAGCGGGAATAAGGGAAAAACGCCGTA AACCGGAAGGACAAAAACGAGTG
0

```

280

Ap

```

5'  ccagaaacgctggtgaaagtaaaagatgctgaagatcagttgggtgcacgagtggttacatcgaactgg
0  +-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'  ggTCTTGCgaccactttcattttctacgacttctagTCAACCCACGTGCTCACCCAATGTAGCTTGACC
0

```

350

Ap

```

5'  atctcaacagcggtaagatccttgagagttttcgccccgaagaacgTTTTCCAATGATGAGCACTTTTAA
0  +-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'  TAGAGTTGTCGCCATTCTAGGAACTCTCAAAGCGGGGCTTCTTGCAAAGGTACTACTCGTGAAAAAT
0

```

420

Ap

```

5'  agttctgctatgtggcgcggtattatcccgtgTTGACGCCGGGCAAGAGCAACTCGGTGCGCGCATACAC
0  +-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'  tCAAGACGATACACCGCGCCATAATAGGGCACAACCTGCGGCCGTTCTCGTTGAGCCAGCGGCGTATGTG
0

```

490

Ap

Scal

```

5'  tattctcagaatgacttggttgagtactcaccagtcacagaaaagcatcttacggatggcatgacagtaa
0  +-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'  ATAAGAGTCTTACTGAACCAACTCATGAGTGGTCAGTGTCTTTTTCGTAGAATGCCTACCGTACTGTCA
0

```

560

Ap

PvuII

```

5'  gagaattatgcagtgctgccataaccatgagtgataaacactgCGGCCAACTTACTTCTGACAACGATCGG
0  +-----+-----+-----+-----+-----+-----+-----+-----+-----+
3'  CTCTTAATACGTCAcGACGGTATTGGTACTCACTATTGTGACGCCGTTGAATGAAGACTGTTGCTAGCC
0

```

630

Ap

BGH01_B01b-pET16-DEST

5' aggaccgaaggagctaaccgcttttttgcacacatgggggatcatgtaactcgccttgatcgttgggaa
 0 ++++++
 3' tcctggcttctcgcattggcgaaaaaacgtggtgtaccccttagtacattgagcggaaactagcaaccctt
 0
 0
 0
 Ap

700

5' ccggagctgaatgaagccataccaaacgacgagcgtgacaccacgatgcctgcagcaatggcaacaacgt
 0 ++++++
 3' ggccctcgacttacttcggtatggtttgctgctcgcaactgtgggtgctacggacgtcgttacccgttggtgca
 0
 0
 0
 Ap

PstI

770

5' tgcgcaaactattaactggcgaactacttactctagcttcccggcaacaattaatagactggatggaggc
 0 ++++++
 3' acgcgtttgataattgaccgcttgatgaatgagatcgaagggccggttgtaattatctgacctacctccg
 0
 0
 0
 Ap

840

5' ggataaagttgcaggaccacttctgcgctcggcccttcggctggctggtttattgctgataaatctgga
 0 ++++++
 3' cctatttcaacgtcctggtgaagacgcgagccgggaaggccgaccgaccaataacgactatntagacct
 0
 0
 0
 Ap

910

5' gccggtgagcgtgggtctcgcggtatcattgcagcactggggccagatggtaagccctcccgtatcgtag
 0 ++++++
 3' cggccactcgcaccagagcgcctatagtaacgtcgtgaccccggtctaccattcgggagggcatagcatc
 0
 0
 0
 Ap

Bsal

980

5' ttatctacacgacggggagtccaggcaactatggatgaacgaaatagacagatcgctgagataggtgcctc
 0 ++++++
 3' aatagatgtgctgcccctcagtcctgatacctacttgctttatctgtctagcactctatccacggag
 0
 0
 0
 Ap

AhdI

1050

5' actgattaagcattggtaactgtcagaccaagtttactcatatatacttttagattgatttaaacttcat
 0 ++++++
 3' tgactaattcgtaaccattgacagtcctggttcaaagtatataatgaaatctaactaaatttgaaagta
 0
 0
 0
 Ap

1120

5' ttttaatttaaaggatctaggtgaagatcctttttgataatctcatgaccaaatacccttaacgtgagt
 0 ++++++
 3' aaaattaaattttcttagatccacttctaggaaaaactattagagtactggttttagggaaattgcactca
 0
 0
 0
 5' tttcgttccactgagcgtcagaccccgtagaaaagatcaaaggatcttcttgagatcctttttttctgcg
 0 ++++++
 3' aaagcaaggtgactcgcagtcctggggcatcttttctagtttctagaagaactctaggaaaaaaagacgc
 0
 0
 0

1260

Ori

BGH01_B01b-pET16-DEST

5' cgtaatctgctgcttgcaaacacaaaaaacaccgctaccagcgggtggtttgcttgccggatcaagagcta
 1330
 3' gcattagacgacgaacgtttgttttttggggcgatggtcgccaccaaacacacggcctagttctcgat
 Ori

5' ccaactcttttccgaaggtaactggcttcagcagagcgcagatacacaatactgtccttctagtgtagc
 1400
 3' ggttgagaaaaaggcttccattgaccgaagtcgtctcgcgtctatggtttatgacaggaagatcacatcg
 Ori

5' cgtagttaggccaccacttcaagaactctgtagcaccgcctacatacctcgctctgctaactctgttacc
 1470
 3' gcatcaatccgggtggtgaagtcttgagacatcgtggcggatgtatggagcgcagacgattaggacaatgg
 Ori

5' agtggctgctgccagtggcgataagtcgtgcttaccgggttgactcaagacgatagttaccggataag
 1540
 3' tcaccgacgacggtcaccgctattcagcacagaatggcccaacctgagttctgctatcaatggcctattc
 Ori

5' ggcgacggtcgggctgaacggggggttcgtgcacacagcccagcttgagcgaacgacctacaccgaac
 1610
 3' cgcgtgccagcccgacttgcccccaagcacgtggtgctgggtcgaacctcgcttgctggatgtggcttg
 Ori

5' tgagatacctacagcgtgagctatgagaaagcgcacgcttcccgaaggagaaaggcggacaggtatcc
 1680
 3' actctatggatgtcgcactcgatactctttcgcgggtgcaagggttccctctttccgcctgtccatagg
 Ori

5' ggtaagcggcagggtcggaacaggagagcgcacgaggagcttccaggggaaacgcctggtatctttat
 1750
 3' ccattcgcctgccagccttgtcctctcgcgtgctccctcgaagggtccccctttgcgaccatagaaata
 Ori

5' agtcctgtcgggtttcggccacctctgacttgagcgtcgatttttgtgatgctcgtcaggggggaggagcc
 1820
 3' tcaggacagcccaaacggtggagactgaactcgcagctaaaaacactacgagcagtcccccgcctcgg
 Ori

5' tatgaaaaaacgccagcaacgcggcctttttacgggttctggccttttgctggccttttgctcacatggt
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 Ori

5' ctttctgctgttatcccctgattctgtggataaccgtattaccgcctttgagtgagctgataccgctcgc
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o
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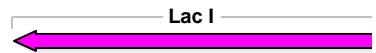
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3710

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3780



5' gggaaacctgtcgaggcagctgattaatgaatcggccaacgcgcggggagaggcggtttgcgatttggg
 3' cccttggacagcacgggtcgacgtaattacttagccggttgcgcgccctctccgccaaacgcataacc

3850

Lac I

5' cgccaggggtgggtttttctttcaccagtgagacgggcaacagctgattgcccctcaccgcctggccctga
 3' gcggtcccaccaaaaagaaaagtgggcactctgcccgttgctcgactaacgggaagtggcggaccgggact

3920

Lac I

HpaI

5' gagagttgcagcaagcgggtccacgctgggttggcccagcaggcgaaaatcctggttgatgggtggttaacg
 3' ctctcaacgctgctcgccaggtgcgaccaaacggggtcgctccgctttaggacaaactaccaccaattgc

3990

Lac I

5' gcgggatataacatgagctgtcttcgggtatcgctgatccactaccgagatatccgcaccaacgcgcag
 3' cgccctatattgtactcgacagaagccatagcagcatagggtgatggctctataggcgtggttgccgctc

4060

Lac I

BssHII

5' cccggactcggtaatggcgcgcatcgtgcccagcgccatctgatcgttggcaaccagcatcgcagtggga
 3' gggcctgagccattaccgcgcgtaacgcgggtcgcggtgacttagcaaccgcttggtcgtagcgtcaccct

4130

Lac I

5' acgatgccctcattcagcatttgcattggtttggtgaaaaccggacatggcactccagtcgccttcccgtt
 3' tgctacgggagtaagtcgtaaacgtaccaaaacttggcctgtaccgtgaggtcagcgggaagggcaa

4200

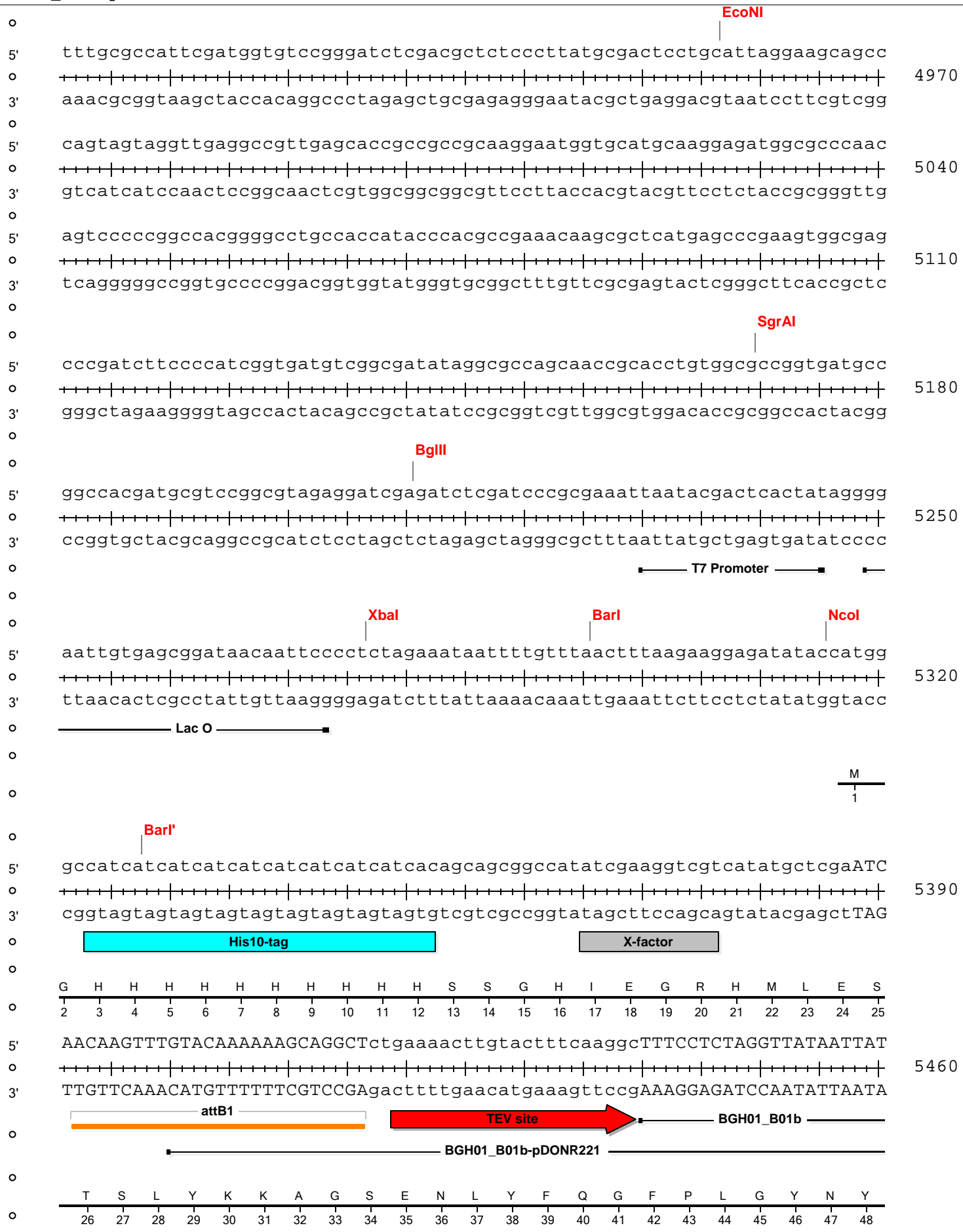
Lac I

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4270

Lac I

o
5' agaacttaatgggcccgctaacagcgcgatttgctggtgacccaatgcgaccagatgctccacgcccagt 4340
o
3' tcttgaattaccggcgattgtcgcgctaaacgaccactgggttacgctggtctacgaggtgcggggtca
o
Lac I
o
5' cgcgtaccgtcttcatgggagaaaataataactggtgatgggtgctctggtcagagacatcaagaaataacg 4410
o
3' gcgcatggcagaagtaccctcttttattatgacaactaccacagaccagtctctgtagttctttattgc
o
Lac I
o
5' ccggaacattagtgcaggcagcttccacagcaatggcatcctggtcatccagcggatagttaatgatcag 4480
o
3' ggcttgtaatcacgtccgctcgaagggtgctgttaccgtaggaccagtaggtcgctatcaattactagtc
o
Lac I
o
5' cccactgacgcgttgcgcgagaagattgtgcaccgcccgtttacaggcttcgacgccgcttcgttctacc 4550
o
3' ggggtgactgcgcaacgcgctcttctaacacgctggcgggcgaatgtccgaagctgcggcgaagcaagatgg
o
Lac I
o
5' atcgacaccaccagctggcaccagttgatcggcgcgagatttaatcgccgcgacaatttgcgacggcg 4620
o
3' tagctgtggtggtgcgaccgtgggtcaactagccgcgctctaaattagcggcgctgttaaacgctgccgc
o
Lac I
o
5' cgtgcagggccagactggaggtggcaacgccaatcagcaacgactgtttgcccgccagttggtgtgccac 4690
o
3' gcacgtcccggctgacctccaccgttgcggttagctcgttgctgacaaacgggcggtcaacaacacggtg
o
Lac I
o
5' gcggttgggaatgtaattcagctccgccatcgccgcttccacttttcccgcgtttctcgcagaaacgtgg 4760
o
3' cgccaacccttacattaagtgcaggcggtagcggcgaaggtgaaaaagggcgcaaaagcgtctttgcacc
o
Lac I
o
5' ctggcctggttcaccacgcgggaaacgggtctgataagagacaccggcatactctgcgacatcgtataacg 4830
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o
5' ttactggtttcacattcaccaccctgaattgactctcttccgggcgctatcatgccataccgcgaaaggt 4900
o
3' aatgaccaaagtgtaagtgggtgggacttaactgagagaaggcccgcgatagtagcggatggtgctttcca
o



BGH01_B01b-pET16-DEST

5' ATTATTACACTGTTTGCAAATAATATCTTAAAGGGTGTGGTAAACATGTCAAAGATAACTTTCCCAAAG
 3' TAATAATGTGACAAACGTTTATTATAGAATTTCCACACCATTTGTACAGTTTCTATTGAAAGGGTTTTTC

5530

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I I T L F A N N I L K G V V N M S K I T F P K
 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71

5' ATTTTCATATGGGGTCTGCAACAGCAGCATATCAGATTGAAGGTGCATACAACGAAGACGGCAAAGGTGA
 3' TAAAGTATACCCCAAGACGTTGTCGTCGTATAGTCTAACTTCCACGTATGTTGCTTCTGCCGTTTCCACT

5600

BGH01_B01b

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D F I W G S A T A A Y Q I E G A Y N E D G K G E
 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' ATCTATATGGGACCGTTTTTCCACACGCCAGGAAATATAGCAGACGGACATACCGGCGATGTTGCATGC
 3' TAGATATACCCTGGCAAAAAGGGTGTGCGGTCCTTTATATCGTCTGCCTGTATGGCCGCTACAACGTACG

5670

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BGH01_B01b-pDONR221

S I W D R F S H T P G N I A D G H T G D V A C
 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118

5' GACCACTATCATCGTTATGAAGAAGATATCAAATAATGAAAGAAATCGGTATTAATCATACAGGTTTT
 3' CTGGTGATAGTAGCAATACTTCTTCTATAGTTTTTACTTTCTTTAGCCATAATTTAGTATGTCCAAAA

5740

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

5' CCATCTCATGGCCAGAAATCTTTCCTGAAGGAACAGGTAAATTAATCAAAGGGACTGGATTTTTTACAA
 3' GGTAGAGTACCGGCTCTTAGAAAGGACTTCCTTGTCCATTTAATTTAGTTTTCCCTGACCTAAAAATGTT

5810

BGH01_B01b

BGH01_B01b-pDONR221

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

BGH01_B01b-pET16-DEST

5' AAGGCTCACAAATCTGCTTCTGGAAAACGGAATTATGCCTGCAATCACTCTTTATCACTGGGACCTTCCC
 3' TTCCGAGTGTTTAGACGAAGACCTTTTGCCTTAATACGGACGTTAGTGAGAAATAGTGACCCTGGAAGGG

5880

BGH01_B01b

BGH01_B01b-pDONR221

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

5' CAAAAGCTTCAGGATAAAGGCGGATGGAAAACCGGGACACCACCGATTATTTTACAGAATACTCTGAAG
 3' GTTTTCGAAGTCCATTTTCCGCCTACCTTTTGGCCCTGTGGTGGCTAATAAAAATGTCTTATGAGACTTC

5950

BGH01_B01b

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

Alol'

Alol

5' TAATATTTAAAAATCTCGGAGATATCGTTCCAATATGGTTTACTCACAATGAACCCGGTGTGTTTCTTT
 3' ATTATAAATTTTATAGAGCCTCTATAGCAAGGTTATACCAAATGAGTGTTACTTGGGCCACAACAAAGAAA

6020

BGH01_B01b

BGH01_B01b-pDONR221

V I F K N L G D I V P I W F T H N E P G V V S L
 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235

PasI

5' GCTTGGCCACTTTTTAGGAATTCATGCCCTGGGATAAAAGACCTCCGCACTTCATTGGAAGTCTCGCAC
 3' CGAACCGGTGAAAAATCCTTAAGTACGGGGACCCCTATTTTCTGGAGGCGTGAAGTAACCTTCAGAGCGTG

6090

BGH01_B01b

BGH01_B01b-pDONR221

L G H F L G I H A P G I K D L R T S L E V S H
 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258

5' AATCTTCTTTTGTCCCACGGCAAGGCCGTGAAACTGTTTAGAGAAATGAATATTGACGCCCAAATTGGAA
 3' TTAGAAGAAAACAGGGTGCCGTTCCGGCACTTTGACAAATCTCTTACTTATAACTGCGGGTTTAACCTT

6160

BGH01_B01b

BGH01_B01b-pDONR221

N L L L S H G K A V K L F R E M N I D A Q I G
 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281

BGH01_B01b-pET16-DEST

BbvCI

5' TAGCTCTCAATTTATCTTACCATTATCCCGCATCCGAAAAAGCTGAGGATATTGAAGCAGCGGAATTGTC
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6230

BGH01_B01b

BGH01_B01b-pDONR221

I A L N L S Y H Y P A S E K A E D I E A A E L S
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5' ATTTTCTCTGGCGGGAAGGTGGTATCTGGATCCTGTGCTAAAAGGCCGGTATCCTGAAAACGCATTGAAA
 3' TAAAAGAGACCGCCCTTCCACCATAGACCTAGGACACGATTTTCCGGCCATAGGACTTTTTCGTAACCTT

6300

BGH01_B01b

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F S L A G R W Y L D P V L K G R Y P E N A L K
 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328

5' CTTTATAAAAAGAAGGGTATTGAGCTTTCTTTCCCTGAAGATGACCTGAAACTTATCAGTCAGCCAATAG
 3' GAAATATTTTCTTCCATAACTCGAAAGAAAGGGACTTCTACTGGACTTTGAATAGTCAGTCGGTTATC

6370

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L Y K K K G I E L S F P E D D L K L I S Q P I
 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351

5' ACTTCATAGCATTCAACAATTATTCTTCGGAATTTATAAAATATGATCCGTCCAGTGAGTCAGGTTTTTC
 3' TGAAGTATCGTAAGTTGTTAATAAGAAGCCTTAAATATTTTATACTAGGCAGGTCAGTCCAAAAAG

6440

BGH01_B01b

BGH01_B01b-pDONR221

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

AarI

BstBI

5' ACCTGCAAACCTCCATATTAGAAAAGTTCGAAAAACAGATATGGGCTGGATCATATATCCTGAAGGCTTG
 3' TGGACGTTTGAGGTATAATCTTTTCAAGCTTTTTTGTCTATAACCCGACCTAGTATATAGGACTTCCGAAC

6510

BGH01_B01b

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

