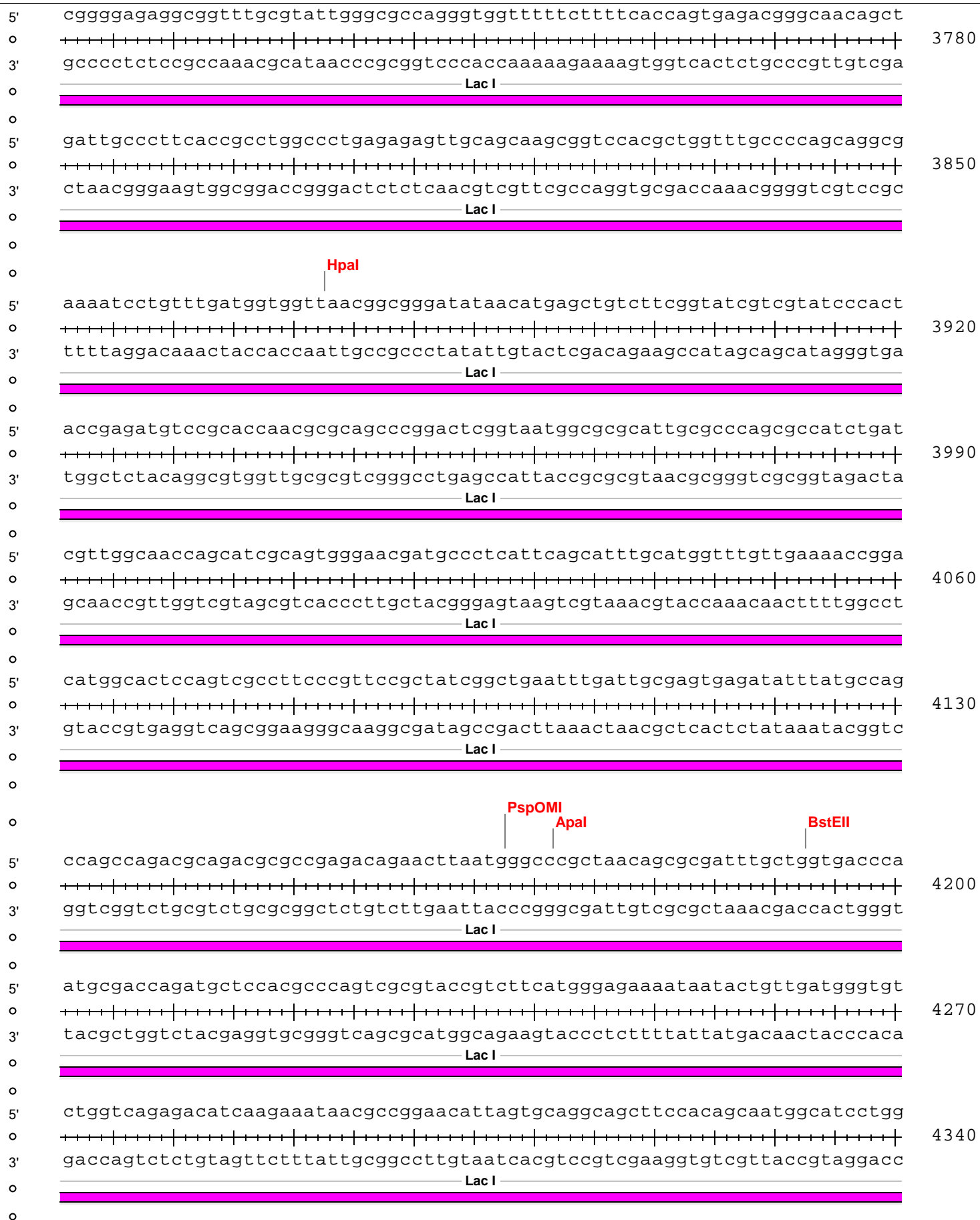


BGT21_T01a-pET32-DEST



o
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o
3' agtaggtcgcctatcaattactagtcgggtgactgcgcaacgcgctcttctaacacgtggcggcgaaatg
o
Lac I
o
5' aggcttcgacgcccgttcggttctaccatcgacaccaccacgctggcaccagttgatcggcgcgagattt 4480
o
3' tccgaagctgcgcggaagcaagatggtagctgtgggtggtgacaccgtgggtcaactagcccgcgctctaaa
o
Lac I
o
5' aatcgccgcgacaatttgcgacggcgcggtgcagggccagactggaggtggcaacgccaatcagcaacgac 4550
o
3' ttagcggcgtgttaaagcgtgcccgcgacgctcccggctgacctccaccggttgcggttagtcggtgctg
o
Lac I
o
5' tgtttgcccgcagttggttgccacgcggttgggaatgtaattcagctccgccatcgcccgttccactt 4620
o
3' acaaacgggcggtcaacaacacggtgcgccaacccttacattaagtcgaggcggtagcggcgaaggtgaa
o
Lac I
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5' tttcccgcgttttcgcagaaacgtggctggcctgggtcaccacgcgggaaacggtctgataagagacacc 4690
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3' aaagggcgaaaagcgtctttgcaccgaccggaccaagtgggtgcgccctttgccagactattctctgtgg
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5' ggcatactctgcgacatcgtataacgttactggtttcacattcaccaccctgaattgactctcttcggg 4760
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3' ccgatatgagacgctgtagcatattgcaatgaccaaagtgaagtgggtgggacttaactgagagaaggccc
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EcoNI
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5' tgcgactcctgcattaggaagcagcccagtagtaggttgaggccggtgagcaccgcccgcgcaaggaatg 4900
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SgrAI
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3' tggcgtggacaccgcccactacggcccgggtgctacgcagggccgcatctcctagctctagctagagctag
o

BGT21_T01a-pET32-DEST

MfeI

5' AACAAATTGCGTCAAGGGCTGGGAAGCCGCGCGGCACAACCTGGGTCGTCCTGGCCGACTCCAACGTGCTGA
 3' TTGTTAACGCAGTTCCTCCGACCCCTTCGGCGCGCCGTGTTGACCCAGCAGGACCCGGCTGAGGTTGCACGACT

6090

BGT21_T01a

BGT21_T01a-pDONR221

N N C V K G W E A A R H N W V V L A D S N V L
 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115

5' TGCCGAGAGACTACATCCAGCATCTGATGGCGGCGTGGCGGCCGGATAACCGGCCTTGTCTGCTCGACGCC
 3' ACGGCTCTCTGATGTAGGTCGTAGACTACCGCCGCACCGCCGGCCTATGGCCGGAACAGACGAGCTGCGG

6160

BGT21_T01a

BGT21_T01a-pDONR221

M P R D Y I Q H L M A A W R P D T G L V C S T P
 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139

5' GATCGGCTCGCGGCCGGAGGGCTTCTGGGCCGAGGTGCAATGCGCCTTCTCAACACGCTGCAGGCCCGC
 3' CTAGCCGAGCGCCGGCCTCCCGAAGACCCGGCTCCAGCTTACGCGGAAGGAGTTGTGCGACGTCCGGGCG

6230

BGT21_T01a

BGT21_T01a-pDONR221

I G S R P E G F W A E V E C A F L N T L Q A R
 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162

PasI

5' TGGCAGTATGCTGGCGAGGCGCTCGGCCTTGGCTTTGCCAGGGCAAGAGCATGCTGTGGAACAAGCCGA
 3' ACCGTCATACGACCGCTCCGCGAGCCGGAACCGAAACGGGTCCCGTTCTCGTACGACACCTTGTTCGGCT

6300

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W Q Y A G E A L G L G F A Q G K S M L W N K P
 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185

5' TGCTGGATGCCAATGGCGGCATCCGCGCGCTGGCCGCTGAAATCGCCGAGGACGCCGCCGCAACCAAGCT
 3' ACGACCTACGGTTACCGCCGTAGGCGCGGACCGGCGACTTTAGCGGCTCCTGCGGCGGCGTTGGTTTCA

6370

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BGT21_T01a-pDONR221

M L D A N G G I R A L A A E I A E D A A A T K L
 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209

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5' GGTCAATGGGCTTGGCCTGCGAGTCAATCTTGTGCGGGCACCCCTTCGAGCAGCCGCTTGGCCGGCGCACG
 3' CCAGTTACCCGAACCGGACGCTCAGTTAGAACAGCGCCGTGGGAAGCTCGTCGGCGAACCGGCCGCGTGC

6440

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V N G L G L R V N L V A A P F E Q P L G R R T
 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232

Ascl

5' CTGGACGCGATCTGGTCGCGCCAGGCTCGCTGGGCGCGCCTGCGCCGCGTACCTTCCCGCTGTTCTTCG
 3' GACCTGCGCTAGACCAGCGCGGTCCGAGCGACCCGCGCGGACGCGGCGCAGTGAAGGGCGACAAGAAGC

6510

BGT21_T01a

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L D A I W S R Q A R W A R L R R V T F P L F F
 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255

5' CGCCGGAAATCCTGACTGGCGCGGTGGTGCCGTTGATGCTTGCACTGGTTGCGGCGGCAAGCGCCGGCTT
 3' GCGGCCTTTAGGACTGACCGCGCCACCACGGCAACTACGAACGTGACCAACGCCCGCTTCGCGGCCGAA

6580

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A P E I L T G A V V P L M L A L V A A A S A G F
 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279

5' CAGCCTGCCGCTGACGGCCATCGCCGTGCTGGCCGCCTTCTACCTTCCGGAATGCGCCCTGGCATGGTCC
 3' GTCGGACGGCGACTGCCGGTAGCGGCACGACCGGCGGAAGATGGAAGGCCTTACGCGGGACCGTACCAGG

6650

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BGT21_T01a-pDONR221

S L P L T A I A V L A A F Y L P E C A L A W S
 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302

5' AAGGGCTGGCACCTGTGCGCCGCGCACGGTCGCGGCGATGATTGCGCGGGACTTGATGGTCCCAGCTATGT
 3' TTCCCGACCGTGGACAGCGGCGCGTGCAGCGCCGCTACTAACGCGCCCTGAACTACCAGGGTTCGATACA

6720

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K G W H L S P R T V A A M I A R D L M V P A M
 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325

BGT21_T01a-pET32-DEST

5' GGGCACGCGGCTGGCTTGGCGGCGCCGTCGACTGGCGCGGCAATGCGATGACCATCGGCACCAAGGCGGC
 6790
 3' CCCGTGCGCCGACCGAACC GCCGCGGCAGCTGACCGCGCCGTTACGCTACTGGTAGCCGTGGTTCCGCCG

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BGT21_T01a-pDONR221

W A R G W L G G A V D W R G N A M T I G T K A A
 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349

AvrII

BamHI

5' CGAACTGGAAGAGGCGTCGTCGCGCGCCTAGGACCCAGCTTTCTTGTACAAAGTGGTTGATatcggatcc
 6860
 3' GCTTGACCTTCTCCGCAGCAGCGCGGATCCTGGGTCGAAAGAACATGTTTCACCAACTAtagcctagg

BGT21_T01a

attB2

BGT21_T01a-pDONR221

E L E E A S S R A .
 350 351 352 353 354 355 356 357 358 359

EcoRI

EcoICRI
Sacl

HindIII

NotI

5' gaattcgagctccgctcgacaagcttgccgcccgcactcgagcaccaccaccaccactgagatccggct
 6930
 3' cttaagctcgaggcagctggtcgaacgccggcgtgagctcgtggggtggggtggtgactctaggccga

BspI

5' gctaacaagcccgaagggaagctgagttggctgctgccaccgctgagcaataactagcataacccttg
 7000
 3' cgattgtttcgggctttccttcgactcaaccgacgacggtggcgactcgttattgatcgattggggaac

T7 Terminator

5' gggcctctaaacgggtccttgaggggttttttgctgaaaggaggaactatatccggat
 7057
 3' cccggagatttgcccagaactccccaaaaaacgactttcctccttgatataggccta

T7 Terminator