



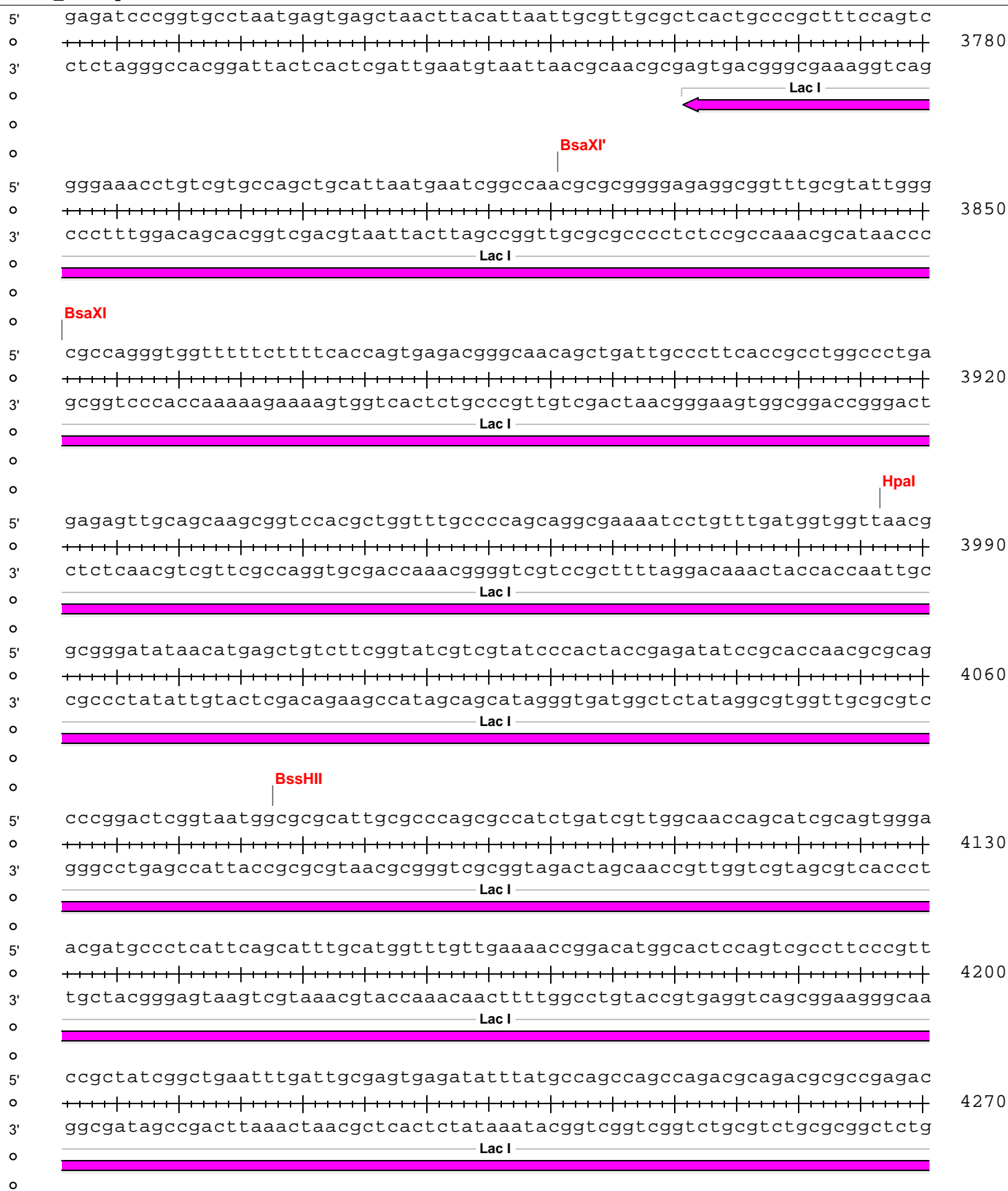




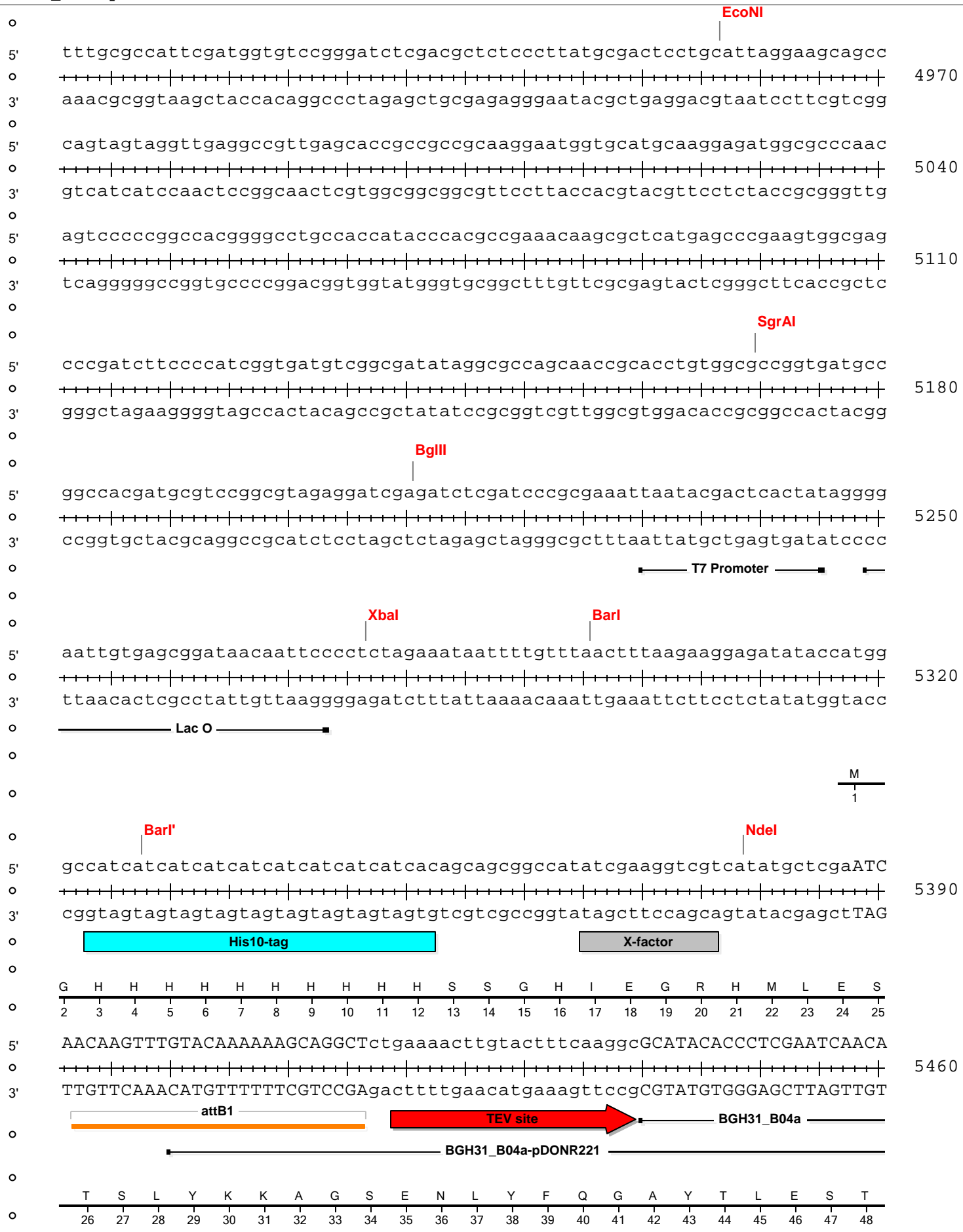




BGH31\_B04a-pET16-DEST



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o  
3' tcttgaattaccggcgattgtcgcgctaaacgaccactgggttacgctggtctacgaggtgctgggtca  
o  
Lac I  
o  
5' cgcgtaccgtcttcatgggagaaaataataactggtgatgggtgctctggtcagagacatcaagaaataacg 4410  
o  
3' gcgcatggcagaagtaccctcttttattatgacaactaccacagaccagtctctgtagttctttattgc  
o  
Lac I  
o  
5' ccggaacattagtgaggcagcttccacagcaatggcatcctgggtcatccagcggatagttaatgatcag 4480  
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3' ggccttgtaatcacgtccgtcgaagggtgctggtaccgtaggaccagtaggtcgccctatcaattactagtc  
o  
Lac I  
o  
o  
o  
o  
5' cccactgacgcgtgcgcgagaagattgtgcaccgcgctttacaggcttcgacgccgcttcgttctacc 4550  
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3' ggggtgactgcgcaacgcgctcttctaacacgtggcgggcgaatgtccgaagctgcgggcgaagcaagatgg  
o  
Lac I  
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3' tagctggtggtgctgacccgtgggtcaactagccgcgctctaaattagcggcgctgttaaaccgctgccgc  
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Lac I  
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5' cgtgcagggccagactggaggtggcaacgccaatcagcaacgactgtttgcccgccagttggtgtgccac 4690  
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3' gcacgtcccggctgacctccaccgttgccggttagtcggtgctgacaaacgggcggtcaacaacacggtg  
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Lac I  
o  
5' gcggttgggaatgtaattcagctccgccatcgccgcttccactttttcccgcggttttcgcagaaacgtgg 4760  
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3' cgccaacccttacattaagtcgagggcggtagcggcggaaggtgaaaaagggcgcaaaagcgtctttgcacc  
o  
Lac I  
o  
5' ctggcctggttcaccacgcgggaaacggctctgataagagacaccggcatactctgcgacatcgtataacg 4830  
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3' gaccggaccaagtgggtgcgccctttgccagactattctctgtggccggtatgagacgctgtagcatattgc  
o  
5' ttactggtttcacattcaccaccctgaattgactctcttccgggcgctatcatgccataaccgcgaaaggt 4900  
o  
3' aatgaccaaagtgtaagtgggtgggacttaactgagagaaggcccgcgatagtagcggatggcgctttcca  
o







BGH31\_B04a-pET16-DEST

5' ACTCAATATTGTTACGCCAGCCTGGATTGGCGCGAATGGCGTGGCTTTTATCGTGGCCGAAGATACAGGC  
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5880

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BGH31\_B04a-pDONR221

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

AarI

5' CCGTTGCATGTCACAATCGATAGCGATCCAGCAGGTGTGATTCCGGCTGGTGCAGTTTCTTCGCCAACCC  
 3' GGCAACGTACAGTGTAGCTATCGCTAGGTCGTCCACACTAAGCCGACCACGTCAAAGGAAGCGGTTGGG

5950

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P L H V T I D S D P A G V I R L V Q F P S P T  
 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211

5' CATTGGCGCGGGCTTGGATGGCAGCGAAACCCATTATGAAGGCACGCGCTTGGTGCTCGATCTACTGAT  
 3' GTAAACCGCGCCCGAACCTACCGTCGCTTTGGGTAATACTTCCGTGCGCGAACCCACGAGCTAGATGACTA

6020

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

BmgBI

5' TGCTGAAAATGTCAGCGTTGCCGCTCAACACGTCATTCAACAATTGGGCTACCCCAAGGCGGCTCCACCC  
 3' ACGACTTTTACAGTCGCAACGGCGAGTTGTGCAGTAAGTTGTTAACCCGATGGGGTTCCGCCGAGGTGGG

6090

BGH31\_B04a

BGH31\_B04a-pDONR221

A E N V S V A A Q H V I Q Q L G Y P K A A P P  
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5' TTGGCAATGTTTAGCAAGCCAATTTGGACAACCTGGGCACGCTATAAAATGGATATCGATCAAGCTCAAA  
 3' AACCGTTACAAATCGTTCGGTTAAACCTGTTGGACCCGTGCGATATTTTACCTATAGCTAGTTCGAGTTT

6160

BGH31\_B04a

BGH31\_B04a-pDONR221

L A M F S K P I W T T W A R Y K M D I D Q A Q  
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5' AATTCGAGGGTGAAACCTGGCTCTACAATTATCCTGCGCCCTTAGAAACCCTGCCGTTGTTTCGAGCGGCT  
 0 ++++++  
 3' TTAAGCTCCCACTTTGGACCGAGATGTTAATAGGACGCGGGAATCTTTGGGACGGCAACAAGCTCGCCGA

7280

BGH31\_B04a

BGH31\_B04a-pDONR221

K F E G E T W L Y N Y P A P L E T L P L F E R L  
 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655

BamHI

5' GTGGTAGGACCCAGCTTTCTTGTACAAAGTGGTTGATtgcgaggatccggctgctaacaaagcccgaaagg  
 0 ++++++  
 3' CACCATCCTGGGTCGAAAGAACATGTTTCACCAACTAagctcctaggccgacgattgtttcgggctttcc

7350

attB2

BGH31\_B04a-pDONR221

W  
 656 657

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 0 ++++++  
 3' ttcgactcaaccgacgacggtggcgactcgttattgatcgtattggggaaccccggagatttgcccagaa

7420

T7 Terminator

5' gaggggttttttgctgaaaggaggaactatatccggatatcccgcaagaggcccggcagtagcggcataa  
 0 ++++++  
 3' ctccccaaaaaacgactttcctccttgatataggcctatagggcgttctccgggcccgtcatggccgtatt

7490

T7 Terminator

5' ccaagcctatgcctacagcatccagggtgacgggtgccgaggatgacgatgagcgcattggttagatattcat  
 0 ++++++  
 3' ggttcggatacggatgtcgttaggtcccactgccacggctcctactgctactcgcgtaacaatctaaagta

7560

HindIII

5' acacggtgcctgactgcgtagcaatttaactgtgataaactaccgcattaaagcttatcgatgataagc  
 0 ++++++  
 3' tgtgccacggactgacgcaatcgttaaattgacactatttgatggcgtaatttcgaatagctactattcg

7630

5' tgtcaaacatgagaa  
 0 ++++++  
 3' acagtttgactcct

7645