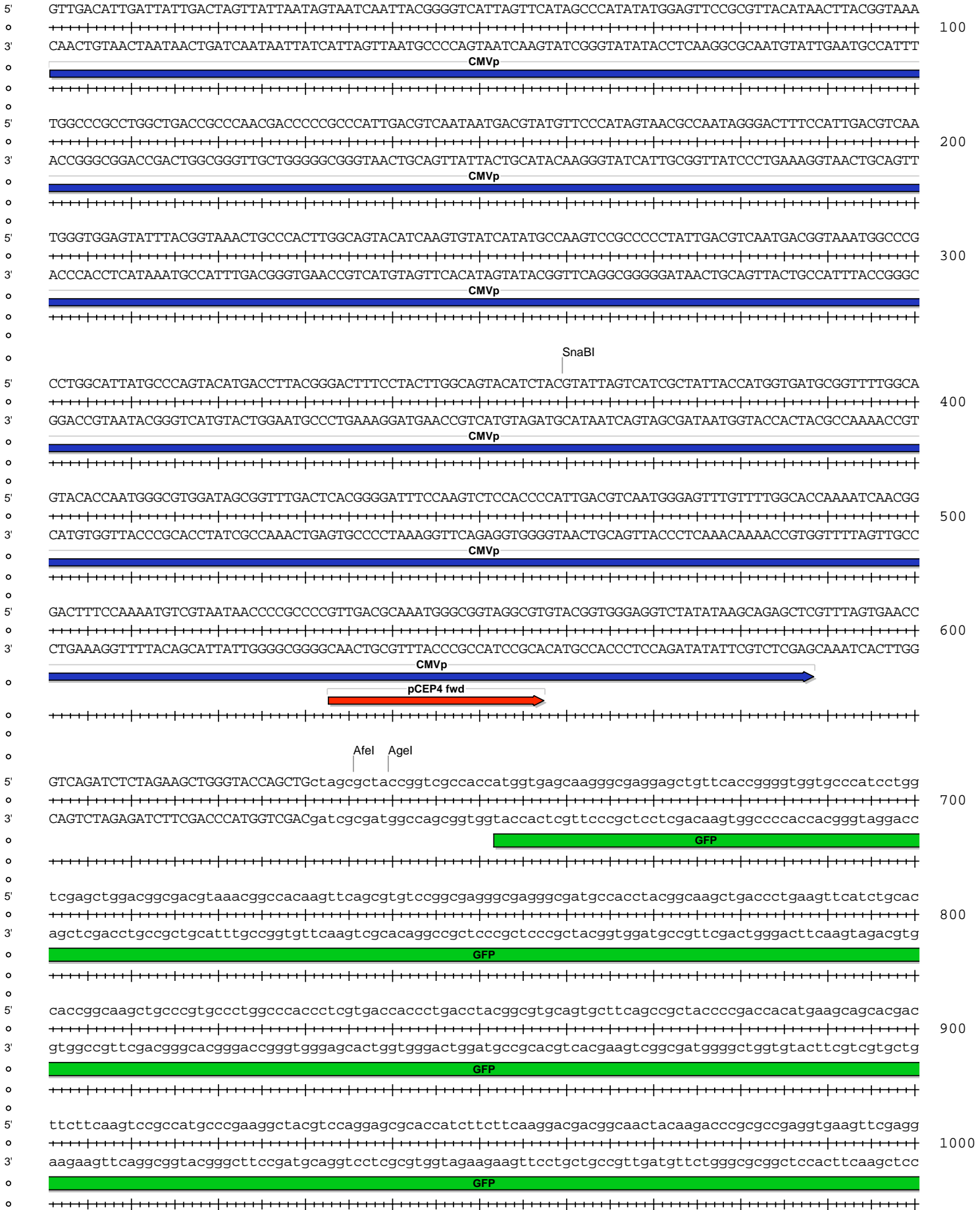


pCEP4-GFP-BART7-14

| Absent Sites | 0 | AarI,AbstI,AfIII,AscI,BarI,BarI',BsiWI,BssHII,BstZ171,FseI,FspAI,MauBI,MreI,NotI,NgoMIV,Pacl,PmeI,PmlI,Psrl,Psrl',SapI,SbfI,SgrDI,SrfI,Swal |
|--------------|---|---------------------------------------------------------------------------------------------------------------------------------------------|
| AfeI | 1 | 636 |
| AgeI | 1 | 640 |
| AjuI | 1 | 12297 |
| AjuI' | 1 | 12265 |
| AsiSI | 1 | 11948 |
| BaeI | 1 | 5316 |
| BaeI' | 1 | 5283 |
| BbeI | 1 | 3473 |
| BbvCI | 1 | 7002 |
| BclI | 1 | 2491 |
| BplI | 1 | 2560 |
| BstBI | 1 | 11435 |
| EcoNI | 1 | 9037 |
| EcoRV | 1 | 4836 |
| HindIII | 1 | 3282 |
| KasI | 1 | 3469 |
| NarI | 1 | 3470 |
| NotI | 1 | 1373 |
| NruI | 1 | 11134 |
| PshAI | 1 | 11611 |
| PspXI | 1 | 2671 |
| SexAI | 1 | 6561 |
| SfiI | 1 | 1545 |
| SfoI | 1 | 3471 |
| SgrAI | 1 | 7203 |
| SnaBI | 1 | 360 |
| XhoI | 1 | 2671 |

pCEP4-GFP-BART7-14



pCEP4-GFP-BART7-14



pCEP4-GFP-BART7-14

5' gt cacaatctatggggctgtagacagtggtgcttaccagacttccatggaagatgtgaatttgctgctagctatatgggtgggtgctatgggctccctaggg
 1900
 3' cagtgttagataccccagcatctgtcacacgaatggtctgaaggtaccttctacacttaaacgacgatcgataaccaccacgataccggaggatccc

BART cluster 2 full length

miR-BART8*

miR-BART8 stem loop

5' actcatgtagtggggcttgtgatagctaataatgaatgtggcagctggtgttggactggaccctgaattggaacagtaacttggattctgtaacacttca
 2000
 3' tgagtacatcaccocgaaacactatcgattacttacaccgctcgacaacaaacatgacctgggactaaccttggcattgaaacctaaagacattgtgaagt

BART cluster 2 full length

miR-BART9 stem loop

miR-BART9

miR-BART9*

5' tgggtcccgtagtgacaactatgctgaatatcttgaatatgggaggagggggcttgggttccattgtgtgccttctcctggccaacgtgagggctcta
 2100
 3' acccagggcatcactggtgatacgacttatagaacttataccctcctcccccgaaaccaaggtaacacacgggaaggaccggtgcaactccaggat

BART cluster 2 full length

miR-BART9 stem loop

miR-BART9

5' gtgttataggcgtggcagtttcttgagggctaataaccgggtgaggcgggtgtcacagggtgtagaccctggagtgaaccagtagcactcggttac
 2200
 3' cacaatatcccgaccgtcaaagaactccgattattgggcccactccgccaacagtgccacgatctgggacctcaacttggatggtgagccaatg

BART cluster 2 full length

e...2

5' aaagtcattggtctagtagttgtgaccctgcaaagctacgtggggatgagcagccagggacttgggtgacaagcagacaggcggcgcattggaacccag
 2300
 3' ttccagtaccagatcatcaacactgggacgtttcgatgcaccctactcgctcggctccctgaaccaactgttcgtctgtccgcccgtaaccttggggctc

BART cluster 2 full length

ebv-mir-BART22

5' aggagtgctccggggccacctcttgggtctgtacatattttgtattgtacataacctggagttggctgtggtgactccatctggaaggggctgg
 2400
 3' tctcacagggccccgggtggagaaaccaagacatgtataaaacaataacatgtattggtacctcaaccgacaccacgtgaggtagaccatcccccgacc

BART cluster 2 full length

miR-BART10

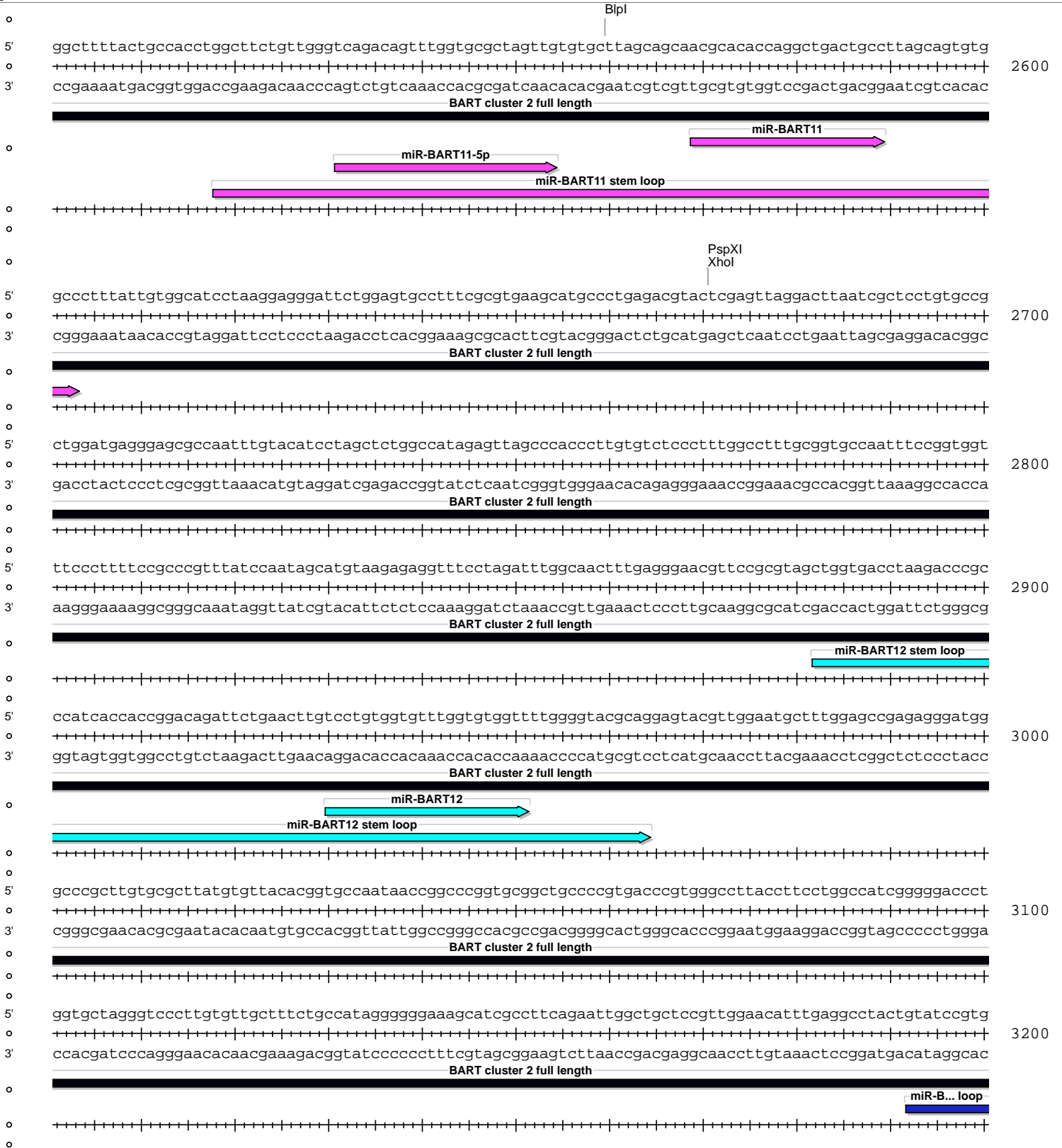
miR-BART10*

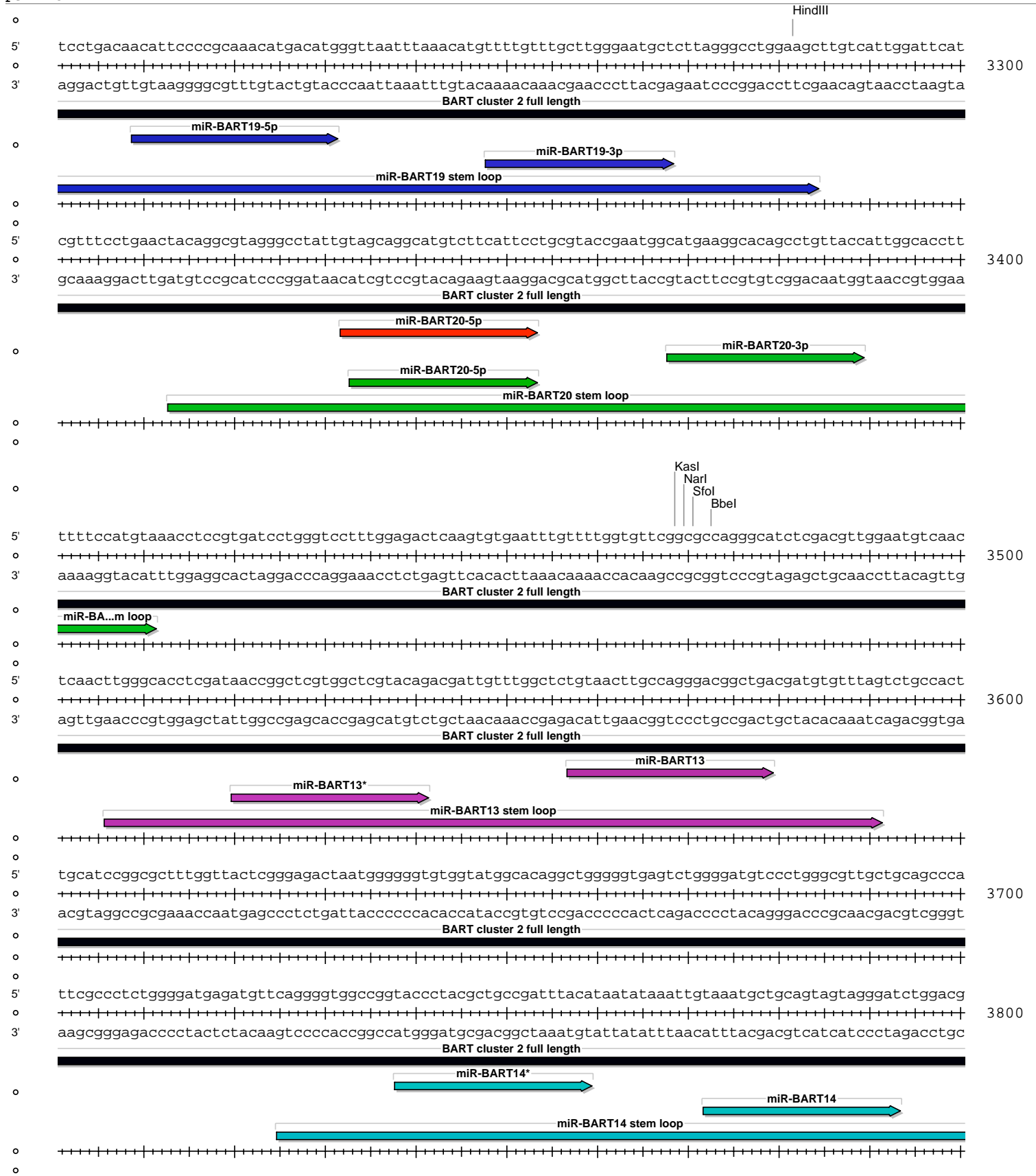
miR-BART10 stem loop

5' tgcggacgcctgtgttagtctatgccaatgtttacctgccttgggttactattccaaacgaccacaccttggaggacacctggagcctgatcatctc
 2500
 3' acgctcgggacacaaatcagatacggttacaaatggacggaacccaatgataaggtttgctggtgtgaaactcctgtggacctcgggactagtaagag

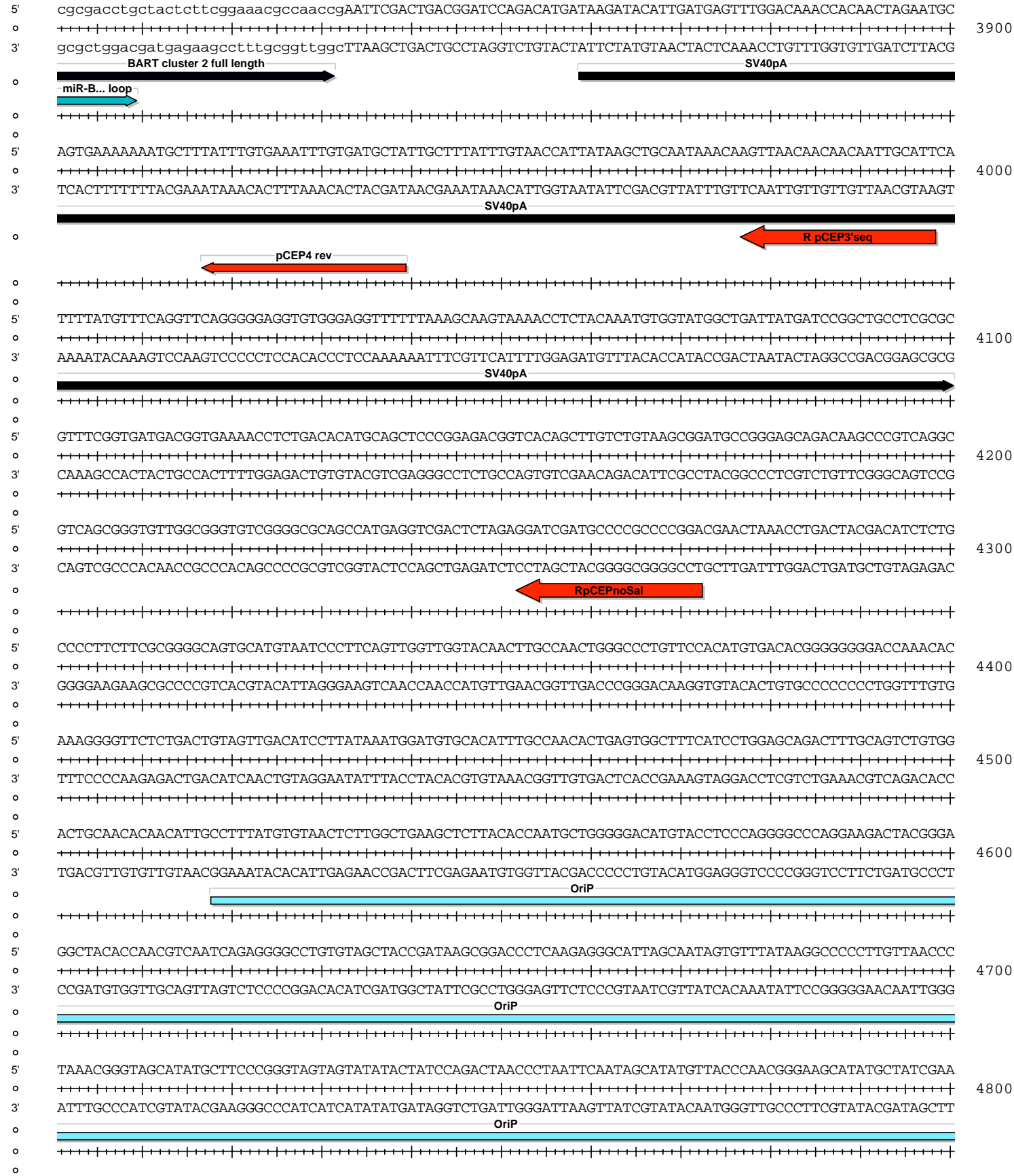
BART cluster 2 full length

Bcll

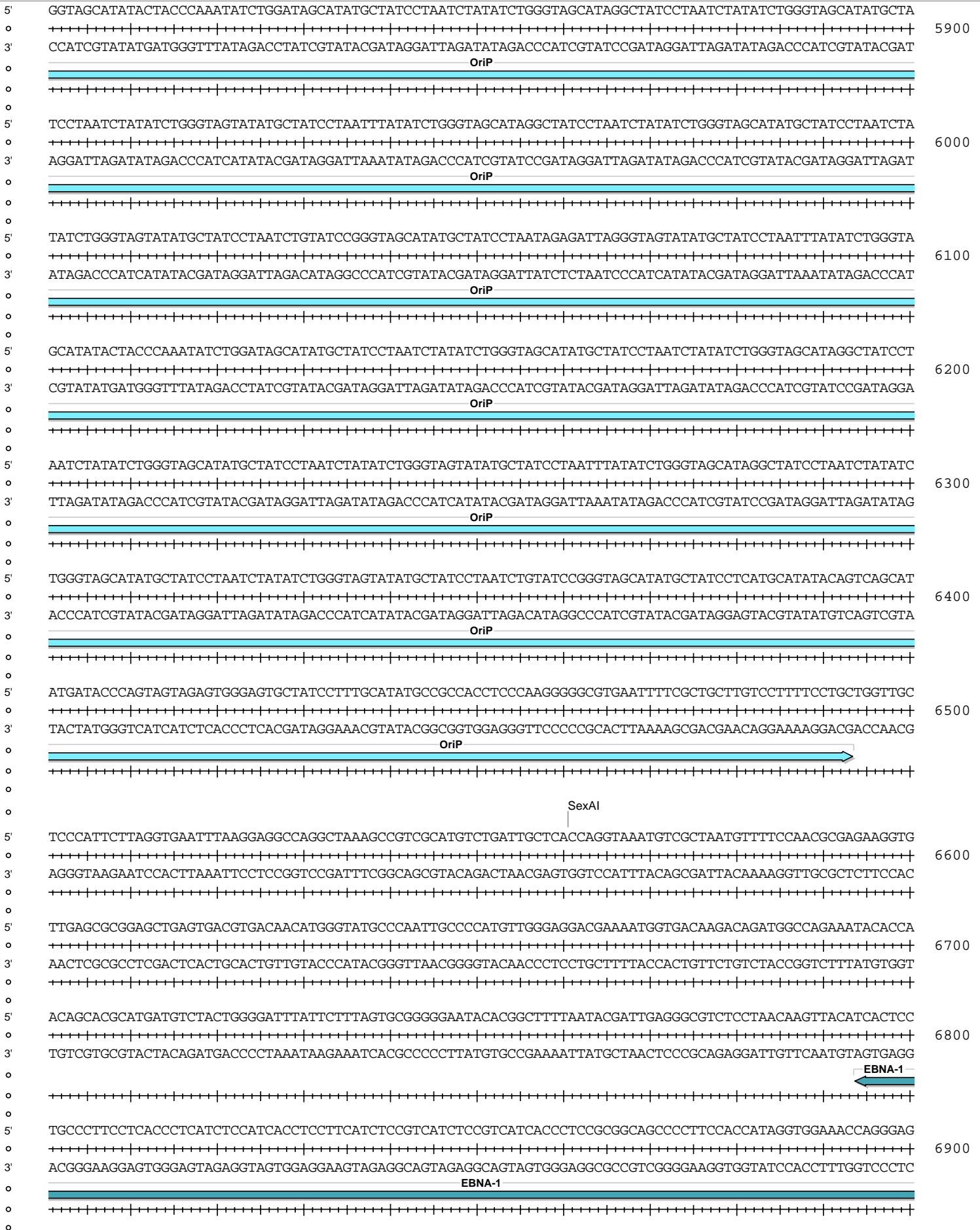




pCEP4-GFP-BART7-14



pCEP4-GFP-BART7-14



pCEP4-GFP-BART7-14

5' GCAAATCTACTCCATCGTCAAAGCTGCACACAGTCACCCTGATATTGCAGGTAGGAGCGGGCTTTGTCATAACAAGTCCTTAATCGCATCCTTCAAAC 7000
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 3' CGTTTAGATGAGGTAGCAGTTTCGACGTGTGTGAGTGGGACTATAACGTCCTCGCCGAAACAGTATTGTTCCAGGAATTAGCGTAGGAAGTTTTC
 EBNA-1

BbvCI

5' CTCAGCAAATATATGAGTTTGTAAAAAGACCATGAAATAACAGACAATGGACTCCCTTAGCGGGCCAGGTTGTGGGCCGGGTCCAGGGGCCATTCCAAAG 7100
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 3' GAGTCGTTTATATACTCAAACATTTTCTGGTACTTTATTGTCTGTTTACCTGAGGGAATCGCCCGGTCCAACACCCGGCCAGGTCCCCGGTAAGGTTTC
 EBNA-1

5' GGGAGACGACTCAATGGTGTAAAGACGACATTTGTGGAATAGCAAGGGCAGTTCCTCGCCTTAGGTTGTAAAGGGAGGCTTACTACCTCCATATACGAACA 7200
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 3' CCCTCTGCTGAGTTACCACATTCGCTGTAAACACCTTATCGTTCCCGTCAAGGAGCGGAATCCAACATTTCCCTCCAGAATGATGGAGGTATATGCTTGT
 EBNA-1

SgrAI

5' CACCGGCACCCCAAGTTCCTTCGTCGGTAGTCCTTTCTACGTGACTCCTAGCCAGGAGAGCTCTTAAACCTTCTGCAATGTTCTCAAATTTCCGGTTGGA 7300
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 3' GTGGCCGTCGGTTCAAGGAAGCAGCCATCAGGAAAGATGCACTGAGGATCGGTCTCTCGAGAATTTGGAAGACGTTACAAGAGTTTAAAGCCCAACCT
 EBNA-1

5' ACCTCCTTGACCACGATGCTTTCCAAACCACCTCCTTTTTTGGCCCTGCCTCCATCACCTTGACCCGGGGTCCAGTGCTTGGGCCCTTCTCCTGGGTCA 7400
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 3' TGGAGGAAGTGGTCTACGAAAGTTTGGTGGGAGGAAAAACCGCGGACGGAGGTAGTGGGACTGGGGCCCGAGTACGAACCCGGAAGAGGACCCAGT
 EBNA-1

5' TCTGCGGGGCCCTGCTCTATCGCTCCCGGGGCACGTCAGGCTCACCATCTGGGCCACCTTCTTGGTGGTATTCAAATAATCGGCTTCCCTACAGGGT 7500
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 3' AGACGCCCCGGGACGAGATAGCGAGGGCCCCGTCAGTCCGAGTGGTAGACCCGGTGAAGAACCACCATAAGTTTATTAGCCGAAGGGGATGTCCCA
 EBNA-1

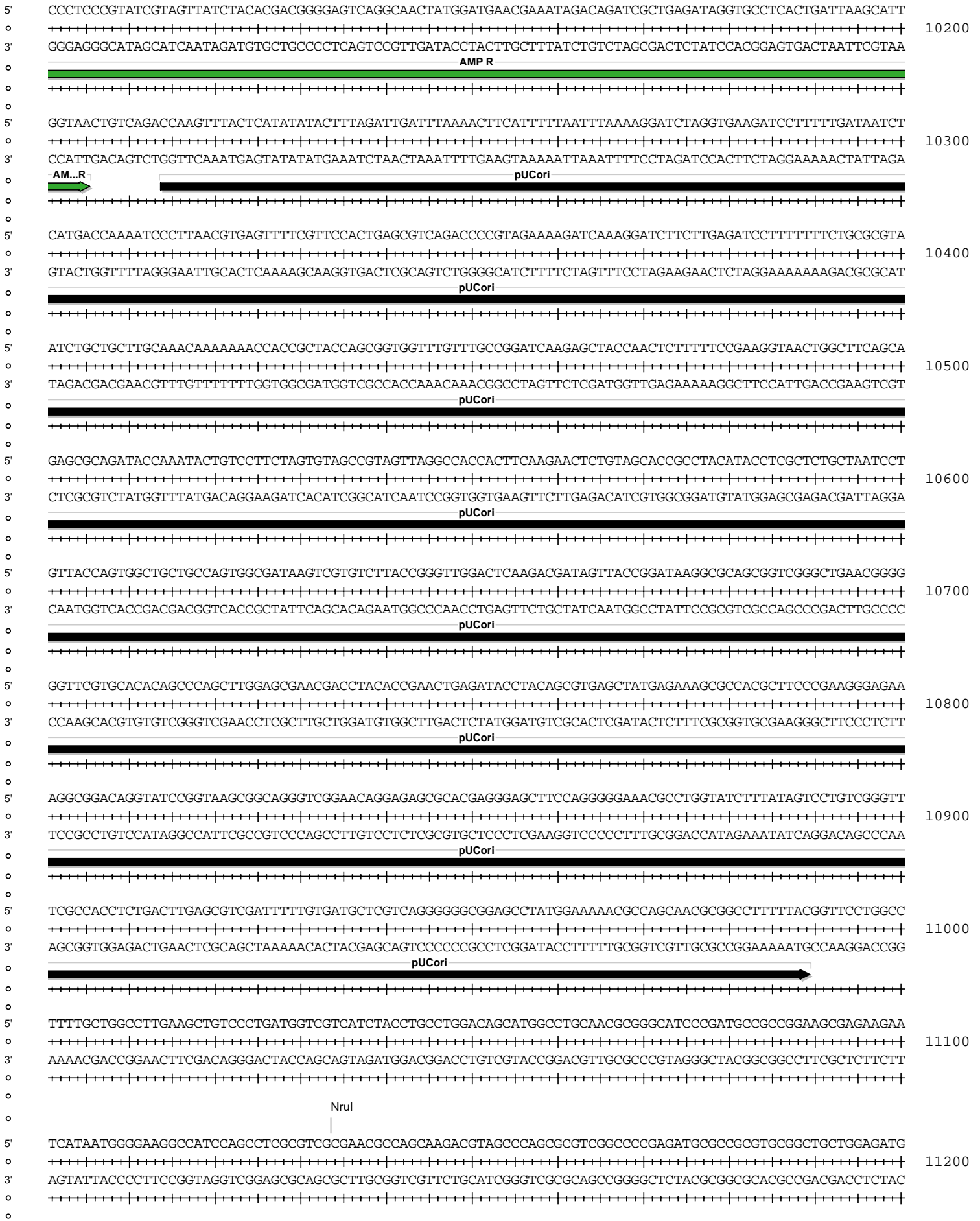
5' GGAAAAATGGCCTTCTACCTGGAGGGGCCCTGC CGGTGGAGACCCGGATGATGATGACTGACTACTGGGACTCCTGGGCCTCTTTTCTCCACGTCCACG 7600
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 3' CCTTTTACC GGAAGATGGACCTCCCCCGACGCGCCACCTCTGGGCCTACTACTACTGACTGATGACCTGAGGACCCGGAGAAAAGAGGTGCAGGTGC
 EBNA-1

5' ACCTCTCCCCCTGGCTCTTTCACGACTTCCCCCCTGGCTCTTTCACGTCTCTACCCGGCGGCCTCCACTACCTCCTCGACCCCGGCTCCACTACCT 7700
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 3' TGGAGAGGGGGACCGAGAAAGTGTGAAGGGGGGACCGAGAAAGTGCAGGAGATGGGGCCCGGAGGTGATGGAGGAGCTGGGGCCGGAGGTGATGGA
 EBNA-1

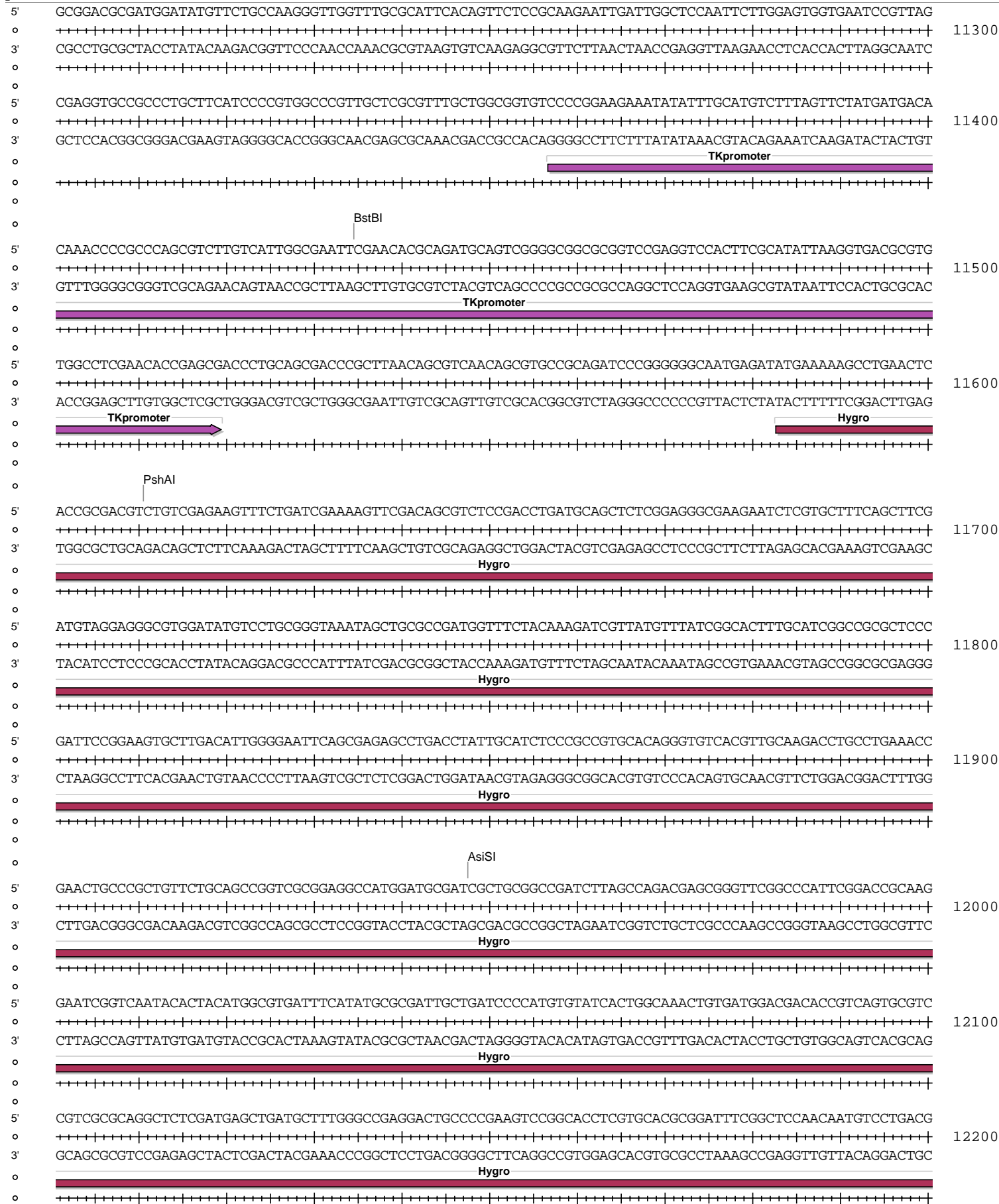
5' CCTCGACCCCGGCTCCACTGCCTCCTCGACCCCGGCTCCACTCCTGCTCCTGCCCCCTCTGCTCCTGCCCCCTCCTCTGCTCCTGCCCTCCTGCC 7800
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 3' GGAGCTGGGGCCGGAGGTGACGAGGAGCTGGGGCCGGAGGTGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGAGGACGAGGACGGGGAGGACGGG
 EBNA-1

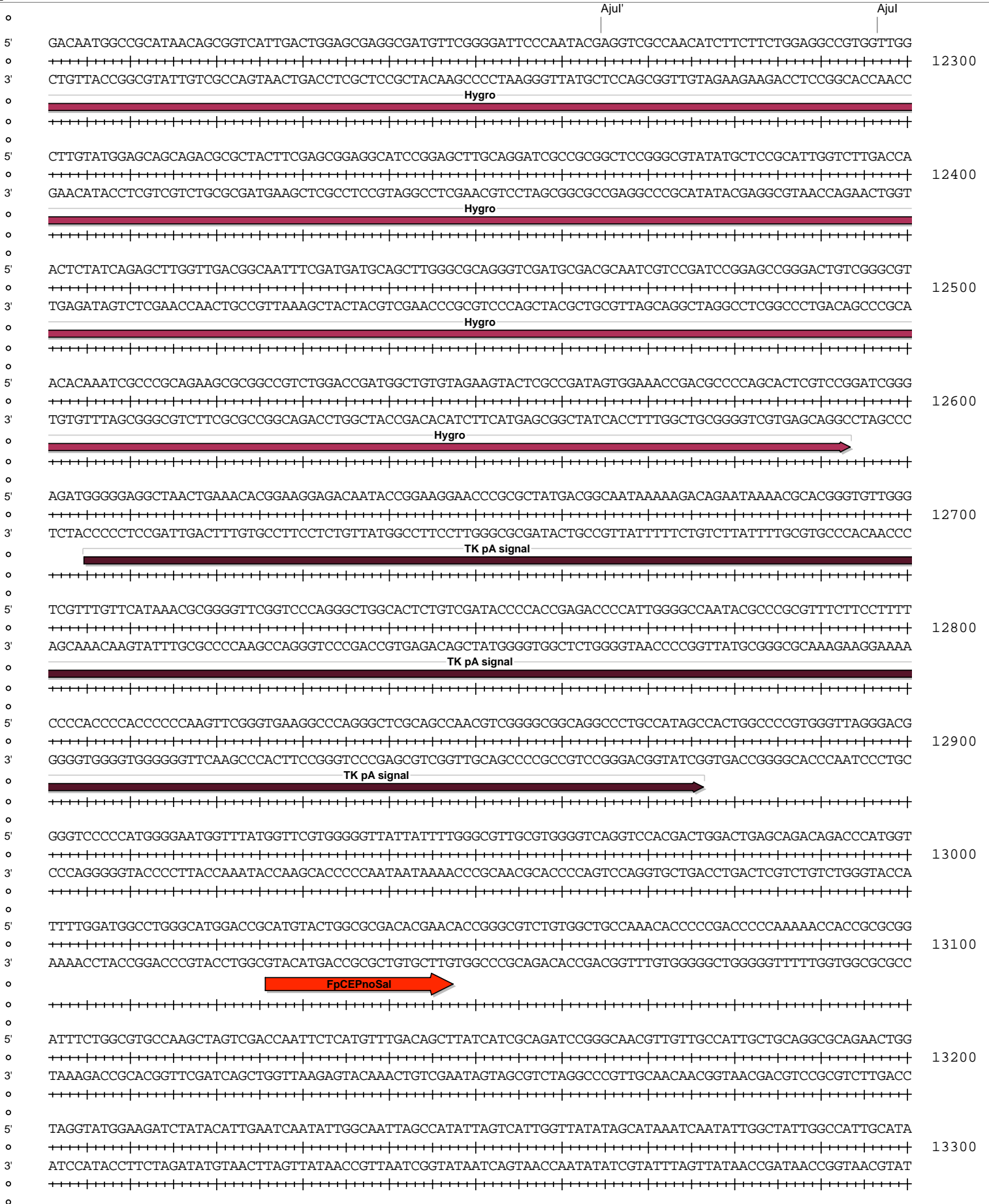
5' CTCTGCTCCTGCCCTCCTGCCCTCCTGCTCCTGCCCTCCTGCTCCTGCCCTCCTGCTCCTGCCCTCCTGCTCCTGCCCTCCTGCCCTCCTGCCCT 7900
 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 3' GAGGACGAGGACGGGGAGGACGGGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGGGG
 EBNA-1

pCEP4-GFP-BART7-14



pCEP4-GFP-BART7-14





pCEP4-GFP-BART7-14

5' CGTTGTATCTATATCATAAATATGTACATTTATATTGGCTCATGTCCAATATGACCGCCAT
o ++++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|
3' GCAACATAGATATAGTATTATACATGTAAATATAACCGAGTACAGGTTATACTGGCGGTA
o ++++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|
o

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