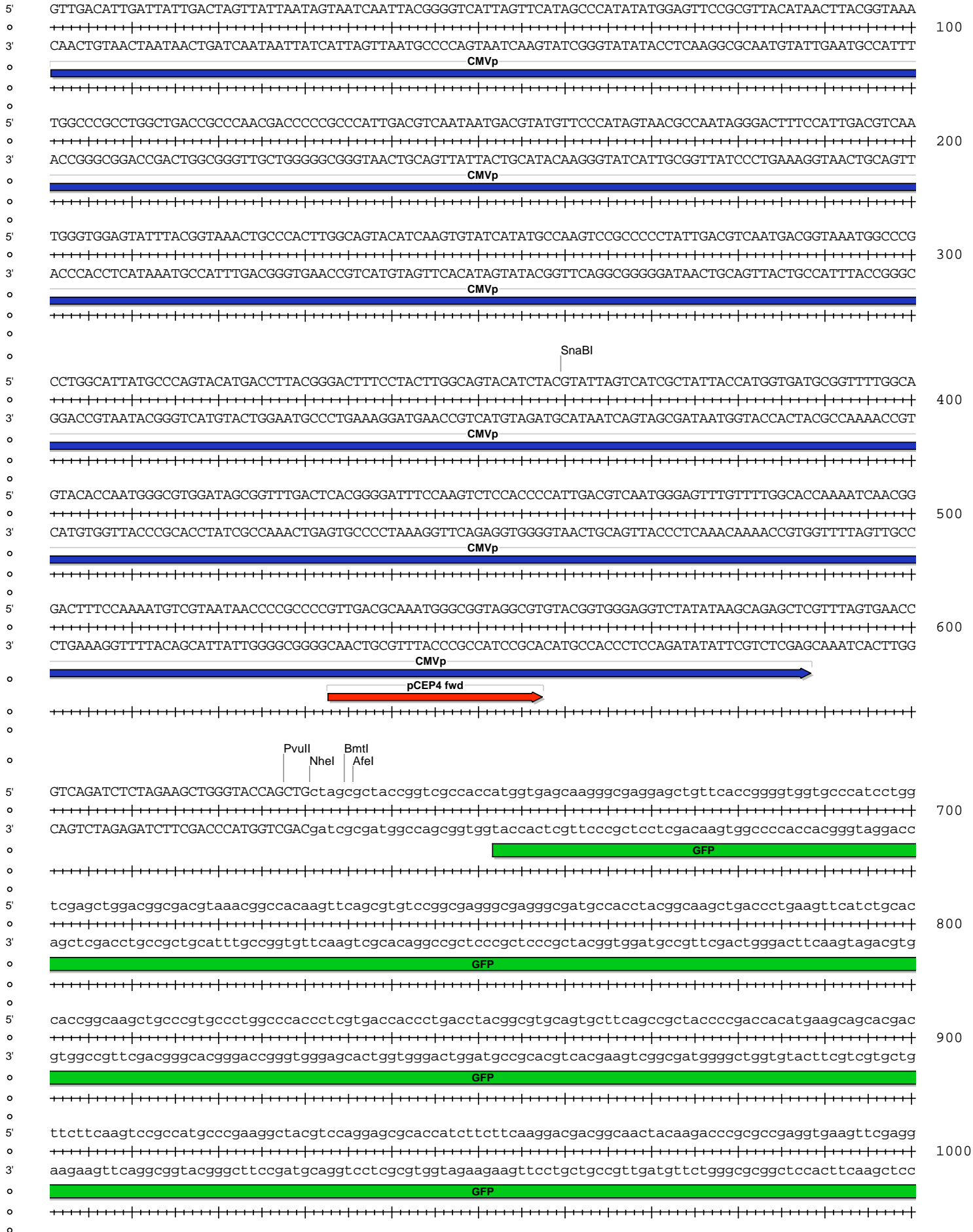


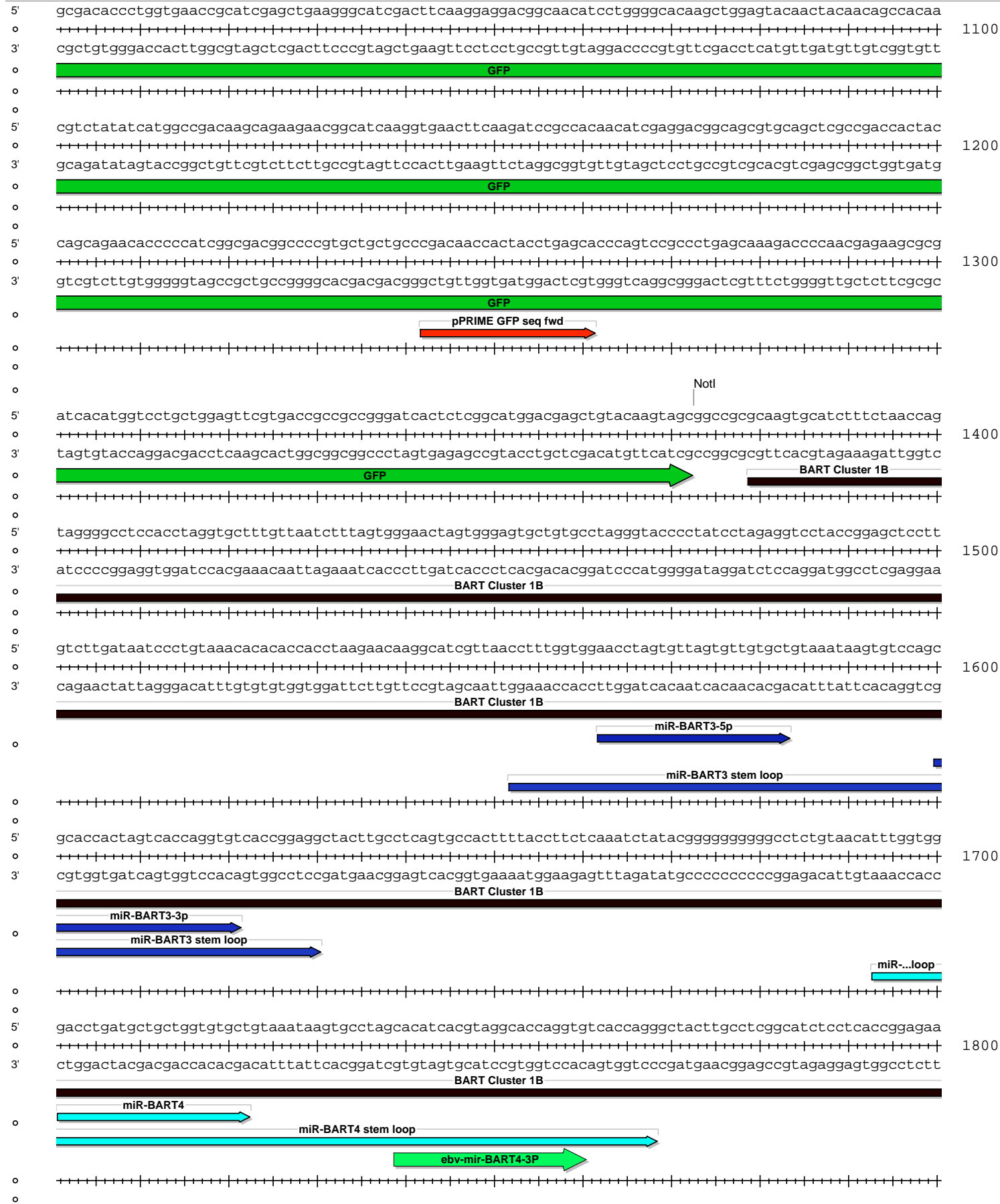
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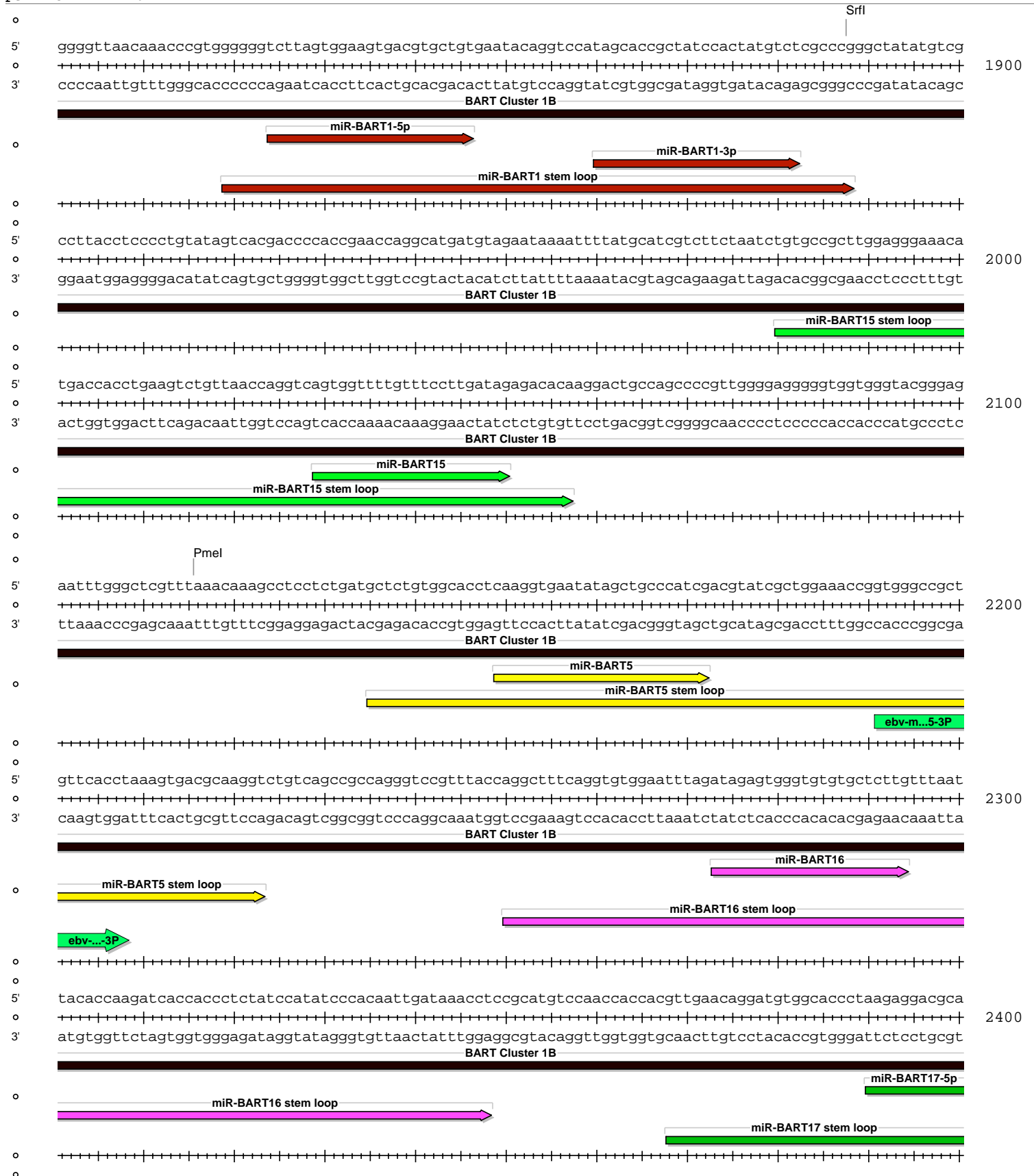
Absent Sites	0	AbsI,AfIII,AscI,BarI,BarI',BbeI,BclI,BlpI,BsiWI,BssHII,BstZ17I,FseI,FspAI,HindIII,KasI,MauBI,MreI,NaeI,NarI,NgoMIV,Pacl, PspXI,Psrl,Psrl',SapI,SbfI,SfiI,SfoI,SgrDI,SphI,Swal,XhoI
AarI	1	2602
AfeI	1	636
AjuI	1	11292
AjuI'	1	11260
Alol	1	4105
Alol'	1	4073
AsiSI	1	10943
BaeI	1	4311
BaeI'	1	4278
BamHI	1	2841
BbvCI	1	5997
BmiI	1	635
BstBI	1	10430
BstEII	1	8037
EcoNI	1	8032
EcoRV	1	3831
NheI	1	631
NotI	1	1373
NruI	1	10129
PmeI	1	2116
PmlI	1	2729
PshAI	1	10606
PvuII	1	628
SgrAI	1	6198
SnaBI	1	360
SrfI	1	1888
XmnI	1	8528

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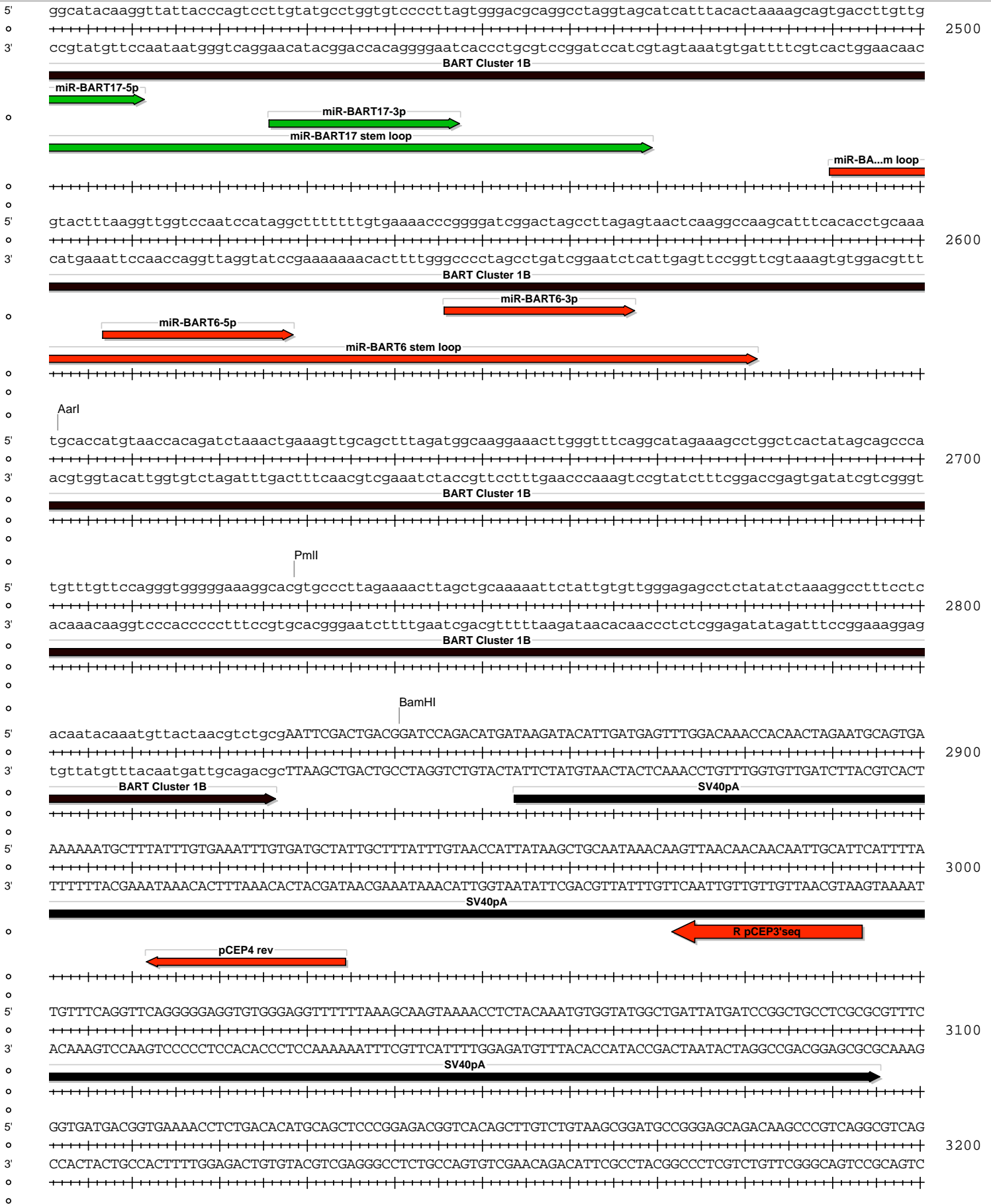


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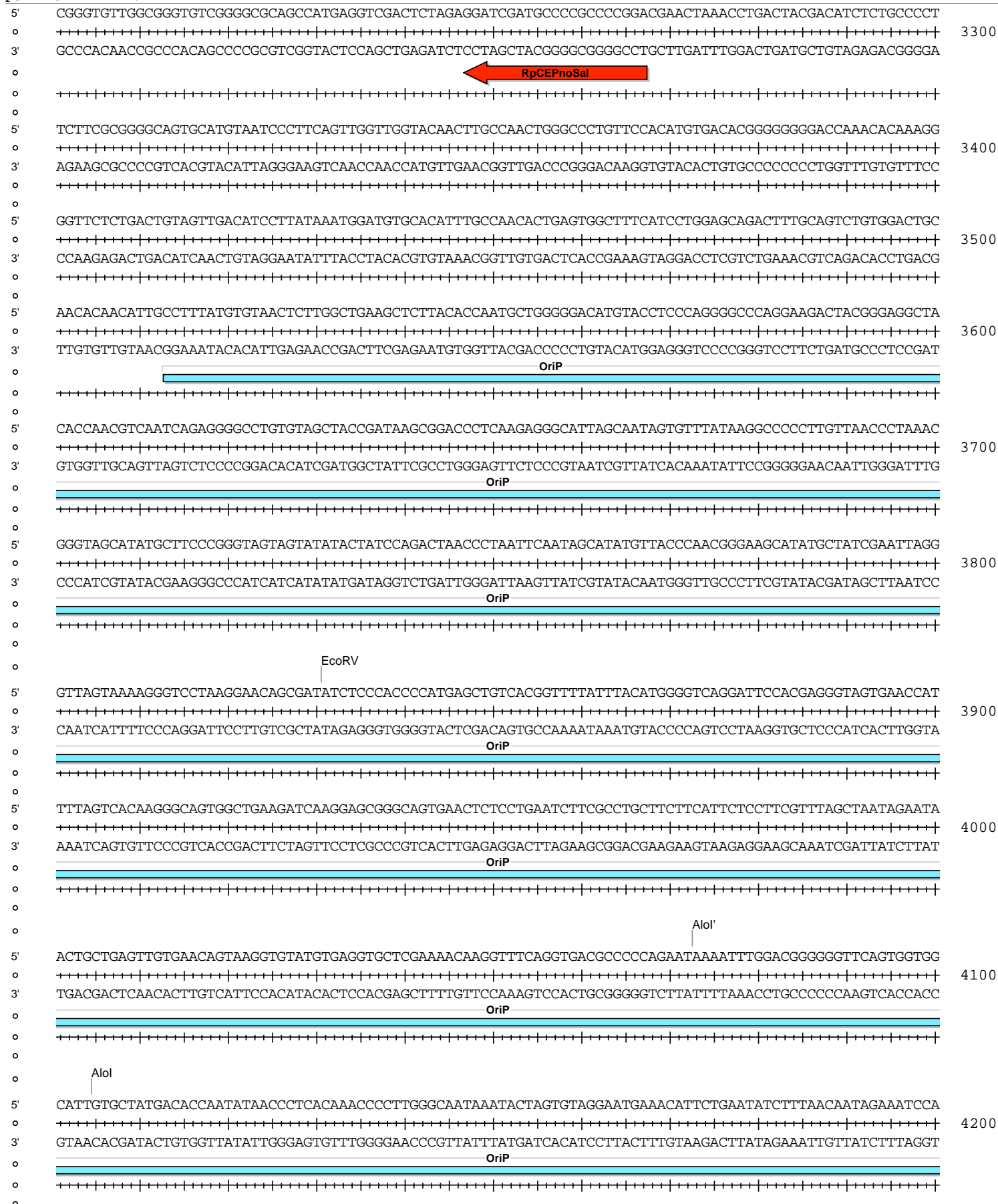




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5' TGGGGTGGGGACAAGCCGTAAGACTGGATGTCCATCTCACACGAATTATGGCTATGGGCAACACATAATCCTAGTGCAATATGATACTGGGGTTATTA 4300
o
3' ACCCCACCCCTGTTCGGCATTTCTGACCTACAGGTAGAGTGTGCTTAAATACCGATACCCGTTGTGTATTAGGATCACGTTATACTATGACCCCAATAAT
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OriP

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5' AGATGTGTCCAGGCAGGGACCAAGACAGGTGAACCATGTTGTTACACTCTATTGTAACAAGGGGAAAGAGAGTGGACGCCGACAGCAGCGGACTCCAC 4400
o
3' TCTACACAGGGTCCGTCCCTGGTTCGTCCACTTGGTACAACAATGTGAGATAAACATTTGTTCCCTTTCTCTCACCTGCGGTGTCTGTCGCCTGAGGTG
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OriP

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5' TGGTTGTCTCTAACACCCCGAAAATTAACGGGGCTCCACGCCAATGGGGCCATAAAACAAAGACAAGTGGCCACTCTTTTTTTTGA AATTGTGGAGTG 4500
o
3' ACCAACAGAGATTGTGGGGCTTTAATTTGCCCGAGGTGCGGTTACCCCGGTTATTTGTTCTGTTACCGGTGAGAAAAAAACTTTAACACCTCAC
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OriP

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5' GGGGCACGCGTCAGCCCCACACGCCGCCCTGCGGTTTTGGACTGTAATAAAGGGTGAATAACTTGGCTGATTGTAACCCCGCTAACCACTGCGGTCA 4600
o
3' CCCCCTGCGCAGTCGGGGGTGTGCGCGGGACGCCAAAACCTGACATTTTATCCACATATTGAACCGACTAACATTGGGGCGATTGGTGACGCCAGT
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OriP

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5' AACCACCTGCCCACAAAACCACTAATGGCACCCCGGGGAATACCTGCATAAGTAGGTGGGCGGGCAAGATAGGGGCGGATTGCTGCGATCTGGAGGAC 4700
o
3' TTGGTGAACGGGTGTTTTGGTGATTACCGTGGGGCCCTTATGGACGTATTCATCCACCGCCCGTTCTATCCCCGCGCTAACGACGCTAGACCTCCTG
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OriP

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5' AAATTACACACTTGCCTGAGCGCCAAGCACAGGGTTGTTGGTCTCATATTCACGAGGTCGCTGAGAGCACGGTGGGCTAATGTTGCCATGGGTAG 4800
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3' TTTAATGTGTGTGAACGCGGACTCGCGGTTGTTGTTCCCAACAACCAGGAGTATAAGTGCTCCAGCGACTCTCGTGCCACCCGATTACAACGGTACCCATC
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OriP

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5' CATATACTACCCAAATATCTGGATAGCATATGCTATCCTAATCTATATCTGGGTAGCATAGGCTATCCTAATCTATATCTGGGTAGCATATGCTATCCTA 4900
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3' GTATATGATGGGTTTATAGACCTATCGTATACGATAGGATTAGATATAGACCCATCGTATCCGATAGGATTAGATATAGACCCATCGTATACGATAGGAT
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OriP

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5' ATCTATATCTGGGTAGTATATGCTATCCTAATTTATATCTGGGTAGCATAGGCTATCCTAATCTATATCTGGGTAGCATATGCTATCCTAATCTATATCT 5000
o
3' TAGATATAGACCCATCATATACGATAGGATTAAATATAGACCCATCGTATCCGATAGGATTAGATATAGACCCATCGTATACGATAGGATTAGATATAGA
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OriP

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5' GGGTAGTATATGCTATCCTAATCTGTATCCGGGTAGCATATGCTATCCTAATAGAGATTAGGGTAGTATATGCTATCCTAATTTATATCTGGGTAGCATA 5100
o
3' CCCATCATATACGATAGGATTAGACATAGGCCATCGTATACGATAGGATTATCTTAATCCCATCATATACGATAGGATTAAATATAGACCCATCGTAT
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OriP

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5' TACTACCCAAATATCTGGATAGCATATGCTATCCTAATCTATATCTGGGTAGCATATGCTATCCTAATCTATATCTGGGTAGCATAGGCTATCCTAATCT 5200
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3' ATGATGGGTTTATAGACCTATCGTATACGATAGGATTAGATATAGACCCATCGTATACGATAGGATTAGATATAGACCCATCGTATCCGATAGGATTAGA
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OriP

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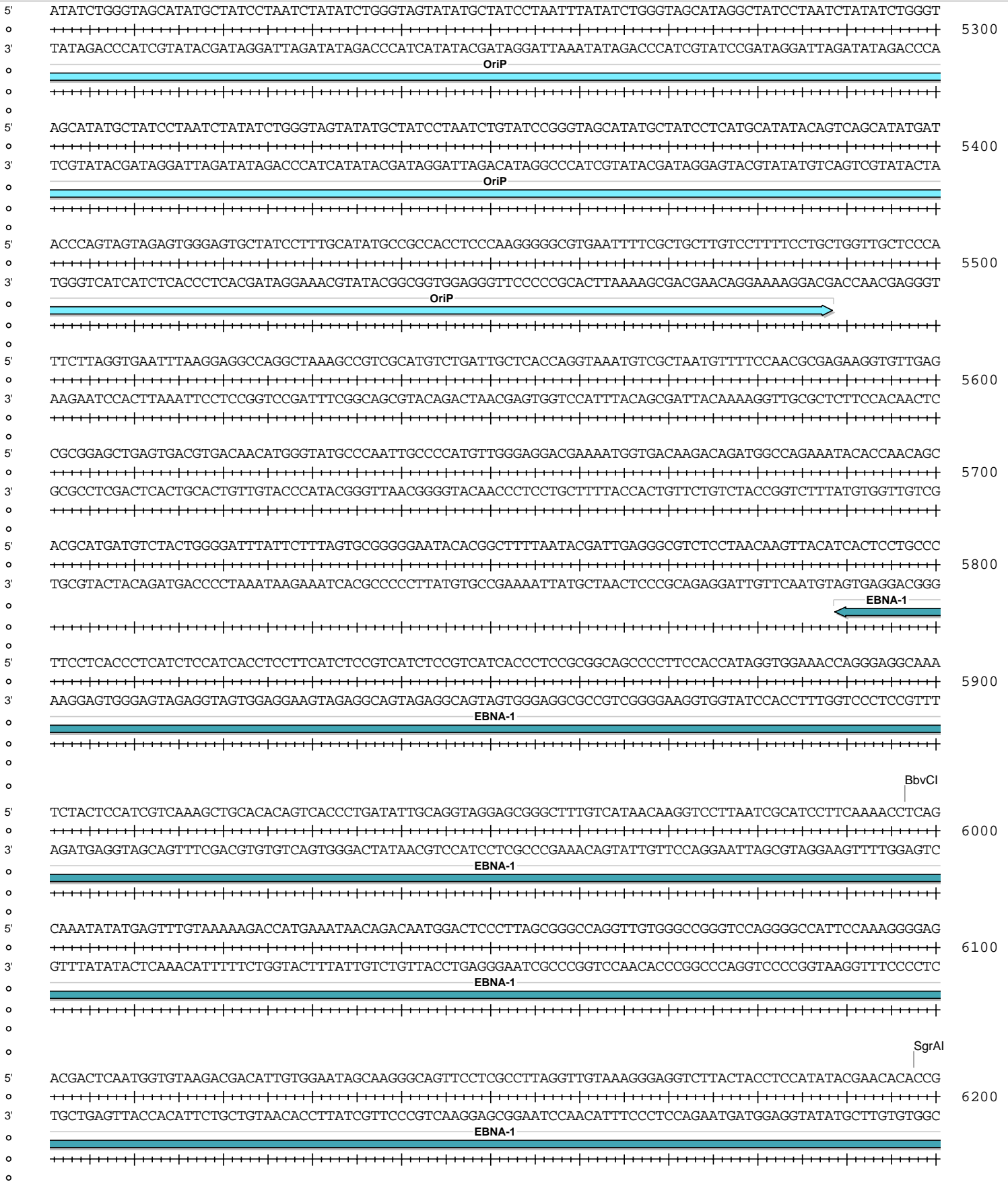
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pCEP4-GFP-BART1-6



pCEP4-GFP-BART1-6

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 6300
 3' CGCTGGGTTCAAGGAAGCAGCCATCAGGAAAGATGCACTGAGGATCGGTCTCTCGAGAATTTGGAAGACGTTACAAGAGTTTAAAGCCCAACCTTGGAG
 EBNA-1

5' CTGACCACGATGCTTCCAAACCACCCTCCTTTTTGCGCCTGCCTCCATCACCTGACCCCGGGTCCAGTGCCTGGGCCCTTCTCCTGGGTGATCTGC
 6400
 3' GAACTGGTGTCTACGAAAGGTTTGGTGGGAGGAAAAACGCGGACGGAGGTAGTGGGACTGGGGCCCGAGGTACGAACCCGGAAGAGGACCCAGTAGACC
 EBNA-1

5' GGGGCCCTGCTCTATCGCTCCCGGGGACGTCAGGCTCACCATCTGGGCCACCTTCTTGGTGGTATTCAAATAATCGGCTTCCCTACAGGGTGGAAA
 6500
 3' CCCCGGACGAGATAGCGAGGGCCCCGTGCAGTCCGAGTGGTAGACCCGGTGAAGAACCACCATAAGTTTATTTAGCCGAAGGGGATGTCCCACCTTT
 EBNA-1

5' AATGGCCTTCTACCTGGAGGGGCTGCGCGGTGGAGACCCGGATGATGATGACTGACTACTGGGACTCCTGGGCCCTTTTCTCCACGTCCACGACCTC
 6600
 3' TTACCGGAAGATGGACCTCCCCGGACGCGCCACCTCTGGGCCTACTACTACTGACTGATGACCTGAGGACCCGGAGAAAAGAGGTGCAGGTGCTGGAG
 EBNA-1

5' TCCCCCTGGCTCTTTCACGACTTCCCCCTGGCTCTTTCACGTCTCTACCCCGGGCCTCCACTACCTCCTCGACCCCGGCTCCACTACCTCCTCG
 6700
 3' AGGGGACCGAGAAAGTGTGAAGGGGGGACCGAGAAAGTGCAGGAGATGGGCGCCCGAGGTGATGGAGGAGCTGGGGCCGGAGGTGATGGAGGAGC
 EBNA-1

5' ACCCGGCCTCCACTGCCTCCTCGACCCCGGCTCCACTCCTGCTCCTGCCCCCTCCTGCTCCTGCCCCCTCCTCCTGCTCCTGCCCCCTCCTGCCCCCTCCT
 6800
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 EBNA-1

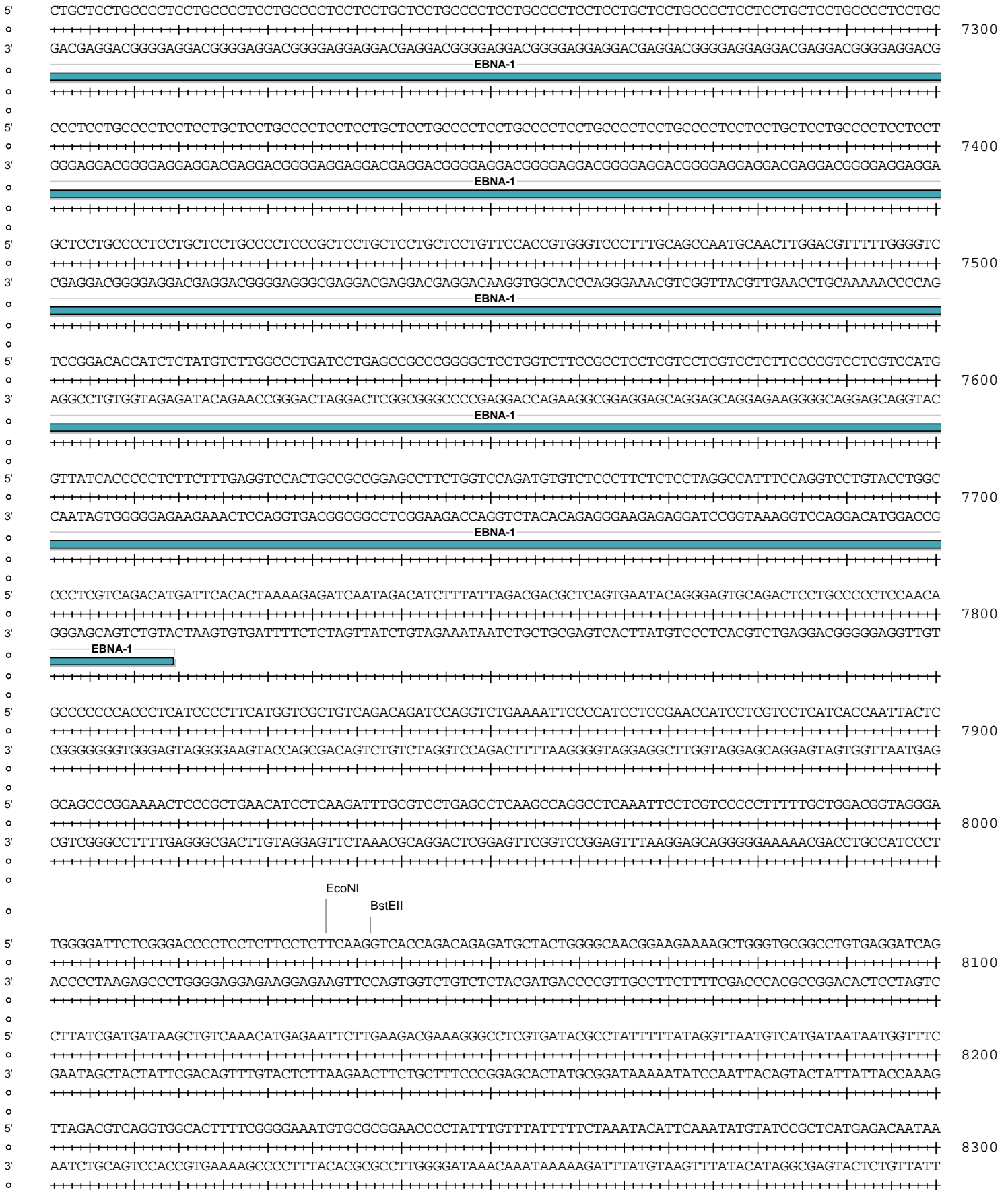
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 6900
 3' CGAGGACGGGGAGGACGGGGAGGACGAGGACGGGGAGGACGGGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGGGGAGGAG
 EBNA-1

5' CTGCTCCTGCCCCCTCCTGCCCCCTCCTGCTCCTGCCCCCTCCTGCTCCTGCCCCCTCCTGCTCCTGCCCCCTCCTGCTCCTGCCCCCTCCTGCTCCTGCCCC
 7000
 3' GACGAGGACGGGGAGGACGGGGAGGACGAGGACGGGGAGGACGGGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGGGGAGGAG
 EBNA-1

5' TCCTGCTCCTGCCCCCTCCTGCTCCTGCCCCCTCCTGCCCCCTCCTGCTCCTGCCCCCTCCTGCTCCTGCCCCCTCCTGCTCCTGCCCCCTCCTGCCCCCT
 7100
 3' AGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGGGGAGGACGGGGAGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGGGGAGGACGGGGAGGAG
 EBNA-1

5' CCTGCTCCTGCCCCCTCCTGCTCCTGCCCCCTCCTGCCCCCTCCTGCTCCTGCCCCCTCCTGCTCCTGCCCCCTCCTGCTCCTGCCCCCTCCTGCCCCCTCCT
 7200
 3' GGACGAGGACGGGGAGGAGGACGAGGACGGGGAGGACGGGGAGGAGGACGAGGACGGGGAGGACGGGGAGGAGGACGAGGACGGGGAGGAGGACGAGGACGGGGAGGAG
 EBNA-1

pCEP4-GFP-BART1-6



pCEP4-GFP-BART1-6

5' CCCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTCGCCCTTATFCCC'TTTTTGCGGCATTTGCCTTCCTG
 8400
 3' GGGACTATTTACGAAGTTATTATAACTTTTTCCTTCTCATACTCATAAGTTGTAAAGGCACAGCGGGAATAAGGGAAAAACGCCGTAAAACGGAAGGAC
 AMP R

5' TTTTGTCTACCCAGAAACGCTGGTGAAAGTAAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGGTTACATCGAACTGGATCTCAACAGCGGTAAGAT
 8500
 3' AAAAACGAGTGGGTCTTTGCGACCACTTTTCATTTTCTACGACTTCTAGTCAACCCAGTGTCTACCCAATGTAGCTTGACCTAGAGTTGTGCCATTCTA
 AMP R

Xmnl
 5' CCTTGAGAGTTTTTCGCCCGAAGAACGTTTTTCCAATGATGAGCACTTTTAAAGTTCTGTATGTGGCGCGGTATTATCCCCTGTTGACGCCGGCAAGAG
 8600
 3' GGAAGTCTCAAAGCGGGCTTCTTGCAAAAGGTTACTACTCGTGAAAATTTCAAGACGATACACCGGCCATAATAGGGCACAACCTCGGCCGTTCTC
 AMP R

5' CAACTCGGTGCGCCATACACTATTCTCAGAATGACTTGGTTGAGTACTCACCAGTCCAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTAT
 8700
 3' GTTGAGCCAGCGCGTATGTGATAAGAGTCTTACTGAACCAACTCATGAGTGGTCAAGTCTTTTTCGTAGAATGCCTACCGTACTGTCATTCTCTTAATA
 AMP R

5' GCAGTGTGCCATAACCATGAGTGATAAACTGCGGCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCACAACATGGG
 8800
 3' CGTCACGACGGTATTTGGTACTCACTATTGTGACGCCGGTTGAATGAAGACTGTTGCTAGCCTCCTGGCTTCTCGATTGGCGAAAAACGTTGTACC
 AMP R

5' GGATCATGTAACTCGCCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGACGAGCGTGACACCACGATGCCTGCAGCAATGGCAACAACG
 8900
 3' CCTAGTACATTGAGCGGAACTAGCAACCCCTGGCCCTCGACTTACTTCCGGTATGGTTTGTGCTGCTCGCACTGTGGTGCTACGGACGTCGTTACCGTTGTTGC
 AMP R

5' TTGCGCAAACATTAACGGGAACTACTTACTCTAGCTTCCCGGCAACAATTAATAGACTGGATGGAGGCGGATAAAGTTGCAGGACCACTTCTGCGCT
 9000
 3' AACCGCTTTGATAATTGACCGCTTGATGAATGAGATCGAAGGGCCGTTGTTAATTTATCTGACCTACCTCCGCTATTTCAACGTCCTGGTGAAGACGCGA
 AMP R

5' CGGCCCTTCCGGCTGGCTGTTTATGCTGATAAATCTGGAGCCGGTGGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGCGCAGATGGTAAGCCCTC
 9100
 3' GCCGGGAAGGCCGACCGACCAAATAACGACTATTTAGACCTCGGCCACTCGCACCCAGAGCGCCATAGTAACGTCGTGACCCCGGCTACCATTCGGGAG
 AMP R

5' CCGTATCGTAGTTATCTACACGACGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAA
 9200
 3' GGCATAGCATCAATAGATGTGCTGCCCTCAGTCCGTTGATACCTACTTGTCTTATCTGTCTAGCGACTCTATCCACGGAGTACTAATTTCGTAACCATT
 AMP R

5' CTGTCAGACCAAGTTTACTCATATATACTTTAGATTGATTTAAAACCTCATT'TTTAATTTAAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGA
 9300
 3' GACAGTCTGGTTCAAATGAGTATATATGAAATCTAACTAAATTTTGAAGTAAAAATTAATTTTCTAGATCCACTTCTAGGAAAACTATTAGAGTACT
 pUCori

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5' CCAAAATCCCTTAACGTGAGTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTCTGCGCGTAATCTG 9400
 3' GGTTTTAGGGAATTGCACTCAAAGCAAGGTGACTCGCAGTCTGGGGCATCTTTTCTAGTTTCCTAGAAGAACTCTAGGAAAAAAGACGCGCATTAGAC
 pUCori

5' CTGCTTGCAAACAAAAAACACCCTACCAGCGGTGGTTTGTGGCCGATCAAGAGCTACCAACTCTTTTCCGAAGGTAAGTGGCTTTCAGCAGAGCC 9500
 3' GACGAACGTTTGTTTTTTGGTGGCGATGGTCCACCAAACAAACGGCTAGTTCTCGATGGTTGAGAAAAGGCTTCCATTGACCGAAGTCGTCTCGC
 pUCori

5' CAGATACCAAATACTGTCTTCTAGTGTAGCCGTAGTTAGGCCACCCTTCAAGAACTCTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTAC 9600
 3' GTCTATGGTTTATGACAGGAAGATCACATCGGCATCAATCCGGTGGTGAAGTCTTGAGACATCGTGGCGGATGTATGGAGCGAGACGATTAGGACAATG
 pUCori

5' CAGTGGCTGTGCCAGTGGCGATAAGTCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTTCGGGCTGAACGGGGGTTTC 9700
 3' GTCACCGACGACGGTCACCGCTATTTCAGCACAGAATGGCCCAACCTGAGTTCGTCTATCAATGGCTATTCCGCGTCGCCAGCCGACTTGCCCCCAAG
 pUCori

5' GTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCG 9800
 3' CACGTGTGTCGGGTGCAACCTCGCTTGCTGGATGTGGCTTGACTCTATGGATGTCGACTCGATACTCTTTCGCGGTGCGAAGGGCTTCCCTCTTTCCGC
 pUCori

5' GACAGGTATCCGTAAGCGGCAGGTCGGAACAGGAGAGCGCAGAGGGAGCTTCCAGGGGAAACGCCTGGTATCTTTATAGTCTGTGGGTTTCGCC 9900
 3' CTGTCCATAGGCCATTCCGCGTCCCAGCCTTGTCTCTCGCGTGCTCCCTCGAAGGTCCCCCTTTGCGGACCATAGAAATATCAGGACAGCCAAAGCGG
 pUCori

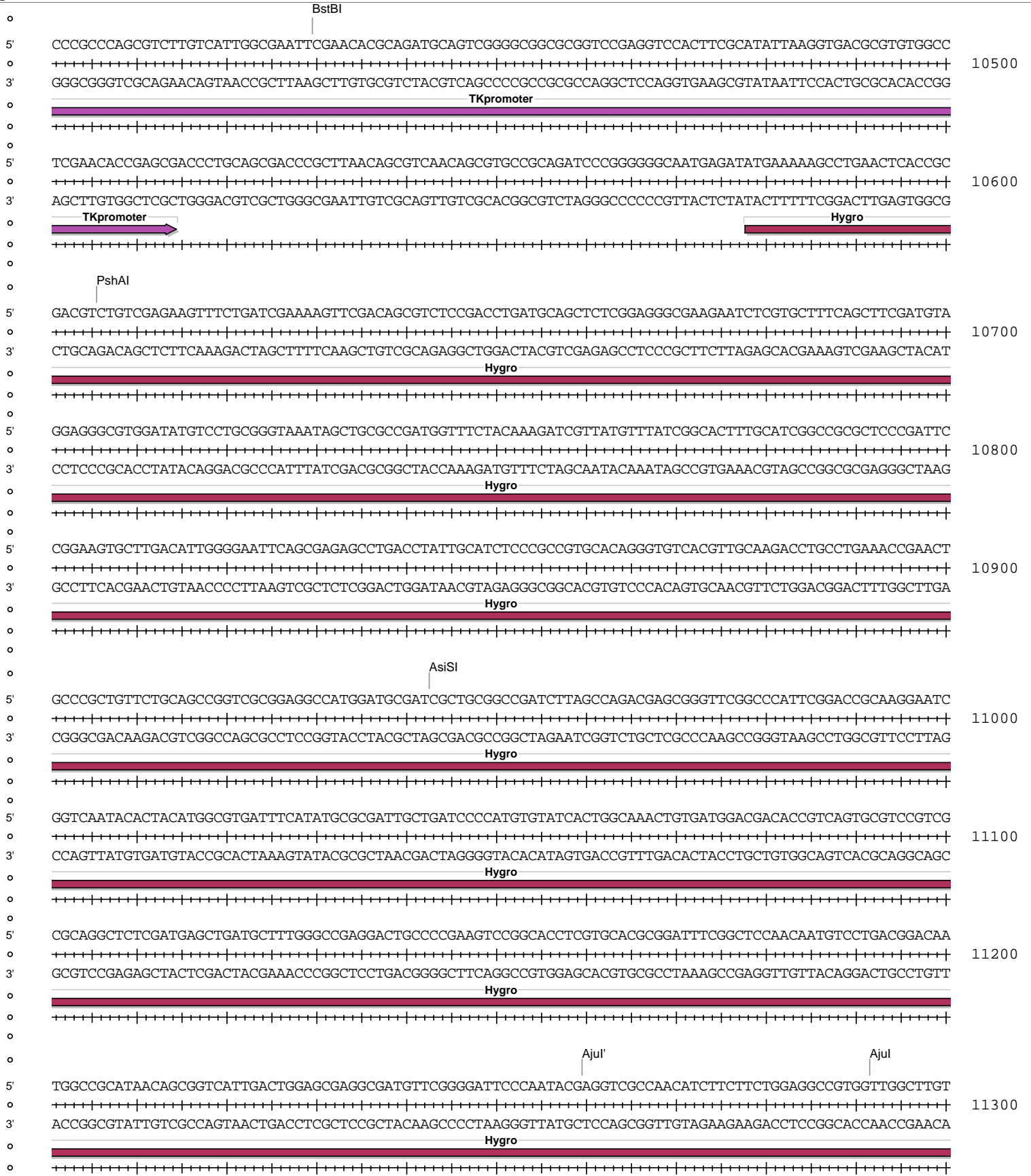
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 pUCori

5' CTGGCCTTGAAGCTGTCCCTGATGGTTCGTCATCTACCTGCCTGGACAGCATGGCTGCAACGCGGGCATCCCGATGCCGCCGGAAGCGAGAAGAAATCATA 10100
 3' GACCGGAACTTCGACAGGGACTACCAGCAGTAGATGGACGGACCTGTCTGACCGGACGTTGCGCCCGTAGGGCTACGGCGGCCTTCGCTCTTCTAGTAT
 NruI

5' ATGGGGAAGGCCATCCAGCCTCGCGTCGCGAACGCCAGCAAGACGTAGCCCAGCGCGTCCGCCCCGAGATGCGCCGCGTGGCGCTGCTGGAGATGGCGGA 10200
 3' TACCCCTTCCGGTAGGTCGGAGCGCAGCGCTTTCGGTCTGTCATCGGGTCGCGCAGCCGGGCTCTACGCGGCGCACGCCGACGACCTTACCGCCT

5' CGCGATGGATATGTTCTGCCAAGGGTTGGTTTGCGCATTCACAGTCTCCGCAAGAATTGATTGGCTCCAATTCTTGGAGTGGTGAATCCGTTAGCGAGG 10300
 3' GCGCTACCTATAACAAGACGGTTCCAACCAAACGCGTAAGTGTCAAGAGGCGTTCTTAACTAACCGAGGTTAAGAACCCTACCACTTAGGCAATCGCTCC

5' TGCCGCCCTGCTTCATCCCCGTGGCCCGTTGCTCGCGTTGCTGGCGGTGTCGCCGGAAGAAATATATTTGCATGTCTTTAGTTCTATGATGACACAAC 10400
 3' ACGGCGGACGAAGTAGGGGCACCGGGCAACGAGCGCAAACGACCGCCACAGGGCCTTCTTTATATAACGTACAGAAATCAAGATACTACTGTGTTTG
 TKpromoter



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