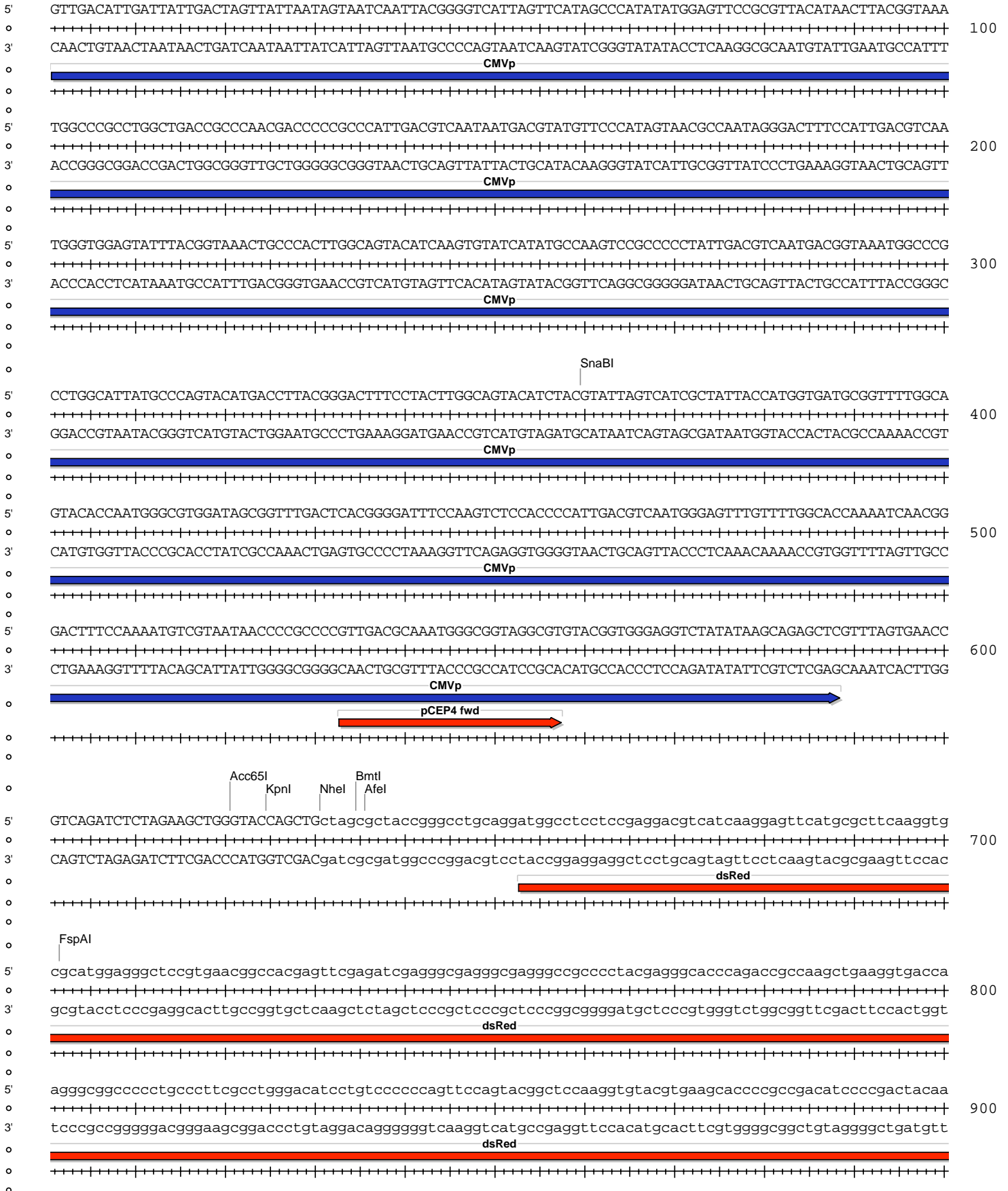


## pCEP4-dsRed

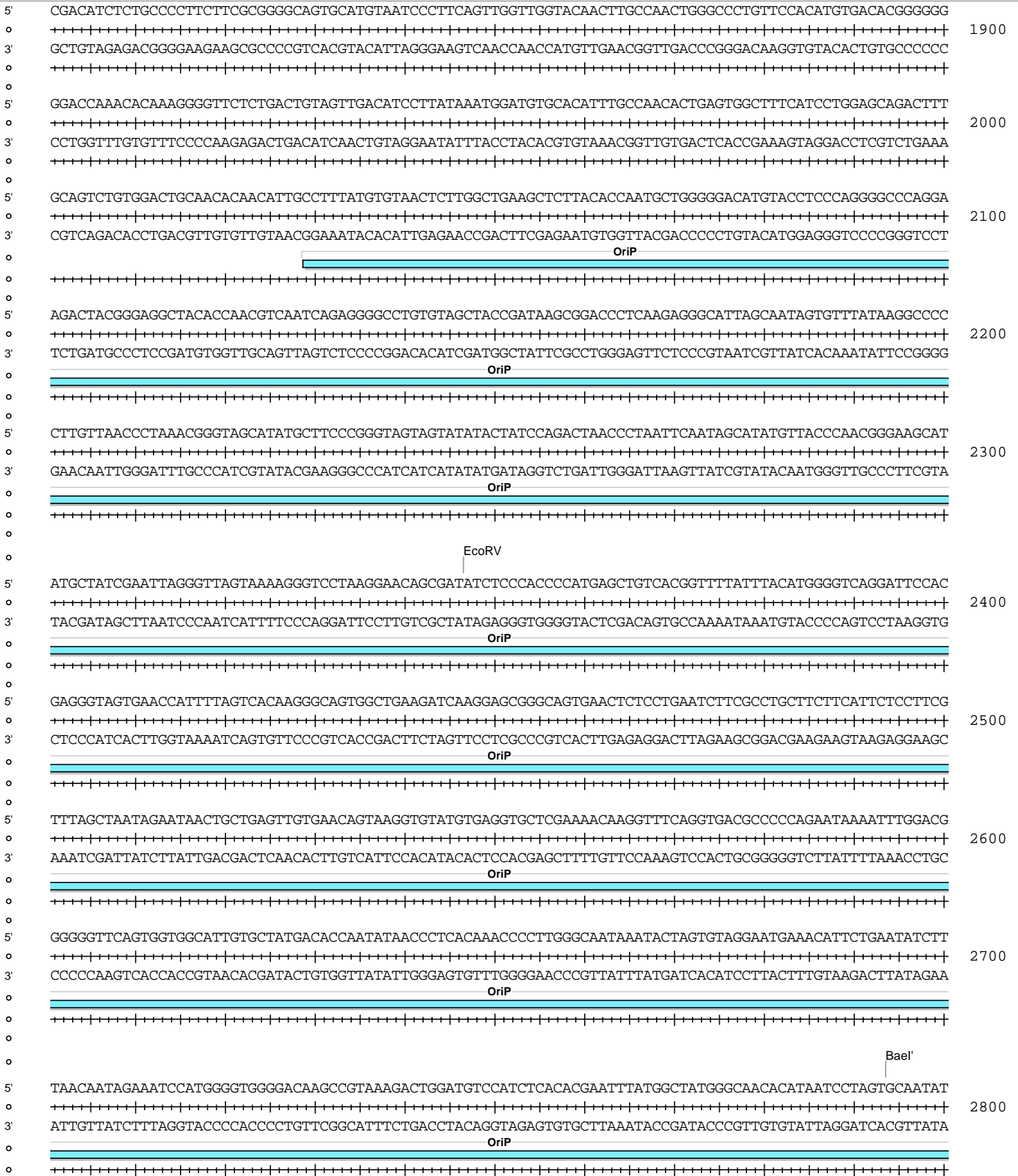
Absent Sites	0	AarI,AbstI,AfIII,Agel,AscI,BarI,BarI',BbeI,BclI,BplI,BsiWI,BstZ17I,FseI,HindIII,KasI,MauBI,MreI,NarI,Pacl,PmeI,PmlI,Psrl,Psrl',SapI,SfoI,SgrDI,SphI,SrfI,Swal
Acc65I	1	621
AfeI	1	636
AjuI	1	9808
AjuI'	1	9776
AleI	1	1281
AsiSI	1	9459
AvrII	1	6188
BaeI	1	2827
BaeI'	1	2794
BamHI	1	1357
BbvCI	1	4513
BmtI	1	635
BsrGI	1	10834
BssHII	1	1298
BstBI	1	8946
EcoNI	1	6548
EcoRV	1	2347
FspAI	1	702
KpnI	1	625
NaeI	1	1347
NgoMIV	1	1345
NheI	1	631
NotI	1	1333
NruI	1	8645
NsiI	1	3898
PshAI	1	9122
PspXI	1	1339
SfiI	1	1351
SgrAI	1	4714
SnaBI	1	360
XhoI	1	1339
XmnI	1	7044

pCEP4-dsRed



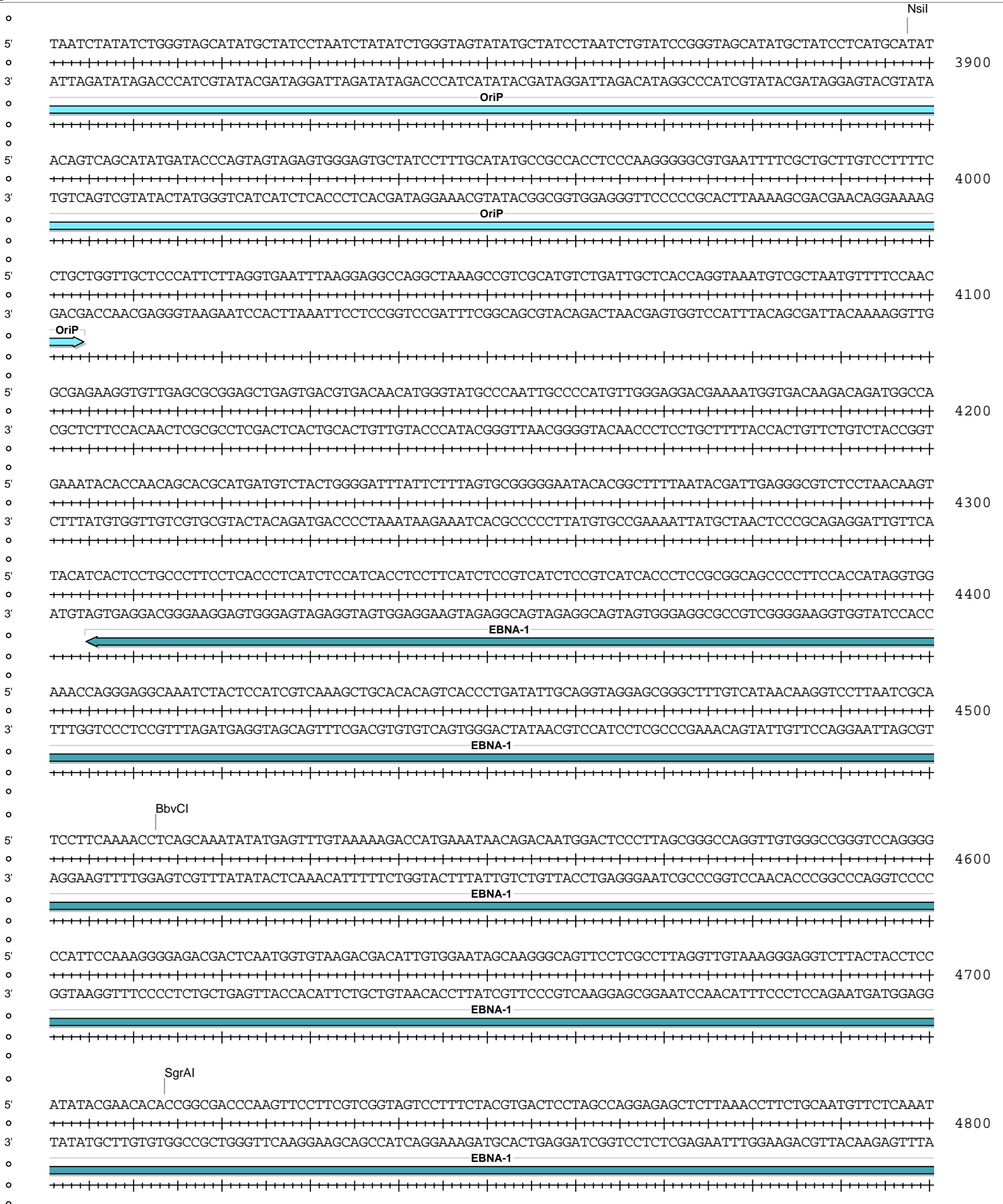


pCEP4-dsRed



BaeI

o  
5' GATACTGGGGTTATTAAGATGTGTCCCAGGCAGGGACCAAGACAGGTGAACCATGTTGTTACACTCTATTTGTAACAAGGGGAAAGAGAGTGGACGCCGA 2900  
o  
3' CTATGACCCCAATAATTCTACACAGGGTCCGTCCCTGGTTCTGTCCACTTGGTACAACAATGTGAGATAAACATTGTTCCCTTTCTCTCACCTGCGGCT  
o  
OriP  
o  
o  
5' CAGCAGCGGACTCCACTGGTTGTCTCTAACACCCCGAAAATTAACGGGGCTCCACGCCAATGGGGCCATAAACAAAGACAAGTGGCCACTCTTTTTT 3000  
o  
3' GTCGTGCGCTGAGGTGACCAACAGAGATTGTGGGGCTTTTAATTTGCCCGGAGGTGCGGTTACCCCGGGTATTTGTTTCTGTTCCCGGTGAGAAAAA  
o  
OriP  
o  
o  
5' TTGAAATGTGGAGTGGGGGCACGCGTCAGCCCCACACGCCGCCCTGCGGTTTGGACTGTAAAATAAGGGTGTAACTTGGCTGATTGTAACCCCG 3100  
o  
3' AACTTTAACACCTCACCCCGTGCAGTCCGGGGTGTGCGGCGGACGCCAAAACCTGACATTTTATTCCACATTATTGAACCGACTAACATTGGGGC  
o  
OriP  
o  
o  
5' CTAACCACTGCGGTCAAACCACTTGCCACAAAACCACTAATGGCACCCGGGGAATACCTGCATAAGTAGGTGGGCGGGCCAAGATAGGGGCGCGATTG 3200  
o  
3' GATTGGTGACGCCAGTTTGGTGAACGGGTGTTTGGTGATTACCGTGGGGCCCTTATGGACGTATTCATCCACCCGCGGTTCTATCCCCGCGCTAAC  
o  
OriP  
o  
o  
5' CTGCGATCTGGAGACAAATTACACACACTTGCGCCTGAGCGCAAGCACAGGGTGTGTTGGTCCATATTCACGAGGTGCTGAGAGCACGGTGGGCTA 3300  
o  
3' GACGCTAGACCTCCTGTTAATGTGTGTGAACGCGGACTCGCGGTTCTGTGCCAACCAACAGGAGTATAAGTGTCCAGCGACTCTCGTGCCACCCGAT  
o  
OriP  
o  
o  
5' ATGTTGCCATGGGTAGCATATACTACCCAAATATCTGGATAGCATATGCTATCCTAATCTATATCTGGGTAGCATAGGCTATCCTAATCTATATCTGGGT 3400  
o  
3' TACAACGGTACCCATCGTATATGATGGGTTTATAGACCTATCGTATACGATAGGATTAGATATAGACCCATCGTATCCGATAGGATTAGATATAGACCCA  
o  
OriP  
o  
o  
5' AGCATATGCTATCCTAATCTATATCTGGGTAGTATATGCTATCCTAATTTATATCTGGGTAGCATAGGCTATCCTAATCTATATCTGGGTAGCATATGCT 3500  
o  
3' TCGTATACGATAGGATTAGATATAGACCCATCATATACGATAGGATTAAATATAGACCCATCGTATCCGATAGGATTAGATATAGACCCATCGTATACGA  
o  
OriP  
o  
o  
5' ATCCTAATCTATATCTGGGTAGTATATGCTATCCTAATCTGTATCCGGGTAGCATATGCTATCCTAATAGAGATTAGGGTAGTATATGCTATCCTAATTT 3600  
o  
3' TAGGATTAGATATAGACCCATCATATACGATAGGATTAGACATAGGCCATCGTATACGATAGGATTATCTCTAATCCCATCATATACGATAGGATTAAA  
o  
OriP  
o  
o  
5' ATATCTGGGTAGCATATACTACCCAAATATCTGGATAGCATATGCTATCCTAATCTATATCTGGGTAGCATATGCTATCCTAATCTATATCTGGGTAGCA 3700  
o  
3' TATAGACCCATCGTATATGATGGGTTTATAGACCTATCGTATACGATAGGATTAGATATAGACCCATCGTATACGATAGGATTAGATATAGACCCATCGT  
o  
OriP  
o  
o  
5' TAGGCTATCCTAATCTATATCTGGGTAGCATATGCTATCCTAATCTATATCTGGGTAGTATATGCTATCCTAATTTATATCTGGGTAGCATAGGCTATCC 3800  
o  
3' ATCCGATAGGATTAGATATAGACCCATCGTATACGATAGGATTAGATATAGACCCATCATATACGATAGGATTAAATATAGACCCATCGTATCCGATAGG  
o  
OriP  
o  
o



pCEP4-dsRed

5' TTCGGGTTGGAACCTCCTTGACCACGATGCTTTCCAACACACCTCCTTTTTTTCGCGCTGCCTCCATCACCTGACCCCGGGTCCAGTGCTTGGGCCTT  
 4900  
 3' AAGCCCAACCTTGAGGAACTGGTGTACGAAAGTTTGGTGGGAGGAAAAACGCGGACGGAGGTAGTGGGACTGGGGCCCCAGGTACGAACCCGGAA  
 EBNA-1

5' CTCCTGGGTCATCTGCGGGGCCCTGCTCTATCGCTCCCGGGGCACGTCAGGCTCACCATCTGGGCCACCTTCTTGGTGGTATTCAAATAATCGGCTTC  
 5000  
 3' GAGGACCCAGTAGACGCCCGGGACGAGATAGCGAGGGCCCCGTGCAGTCCGAGTGGTAGACCCGGTGAAGAACCACCATAAGTTTATTAGCCGAAG  
 EBNA-1

5' CCCTACAGGGTGGAAAAATGGCCTTCTACCTGGAGGGGCCCTGCGCGGTGGAGACCCGGATGATGATGACTGACTACTGGGACTCCTGGGCCTCTTTTCT  
 5100  
 3' GGGATGTCCACCTTTTTACCGAAGATGGACCTCCCCGGACGCGCCACCTCTGGGCCTACTACTACTGACTGATGACCCTGAGGACCCGGAGAAAAGA  
 EBNA-1

5' CCACGTCCACGACCTCTCCCTGGCTCTTTACGACTTCCCCCTGGCTCTTTACGTCCTCTACCCCGCGGCCCTCCACTACCTCCTCGACCCCGGC  
 5200  
 3' GGTGCAGGTGCTGGAGAGGGGACCGAGAAAGTGTGAAGGGGGGACCGAGAAAGTGCAGGAGATGGGGCCGCCGAGGTGATGGAGGAGCTGGGGCCG  
 EBNA-1

5' CTCCACTACCTCCTCGACCCCGGCCTCCACTGCCTCCTCGACCCCGGCCTCCACTCCTGCTCCTGCCCCCTCTGCTCCTGCCCCCTCTCCTGCTCCTGC  
 5300  
 3' GAGGTGATGGAGGAGCTGGGGCCGAGGTGACGAGGAGCTGGGGCCGAGGTGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGAGGACGAGGACG  
 EBNA-1

5' CCCTCCTGCCCCCTCTGCTCCTGCCCCCTCTGCCCCCTCTGCTCCTGCCCCCTCTGCTCCTGCCCCCTCTGCCCCCTCTCCTGCTCCTGCC  
 5400  
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 EBNA-1

5' CCTCCTGCCCCCTCTCCTGCTCCTGCCCCCTCTGCCCCCTCTGCTCCTGCCCCCTCTGCTCCTGCCCCCTCTGCCCCCTCTGCTCCTGCC  
 5500  
 3' GGAGGACGGGGAGGAGGACGAGGACGGGGAGGACGGGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGAGGACGAGGACG  
 EBNA-1

5' CTCCTGCTCCTGCCCCCTCTGCTCCTGCCCCCTCTGCTCCTGCCCCCTCTGCCCCCTCTCCTGCTCCTGCCCCCTCTGCTCCTGCC  
 5600  
 3' GAGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGACGAGGACGAGGACGAGGACG  
 EBNA-1

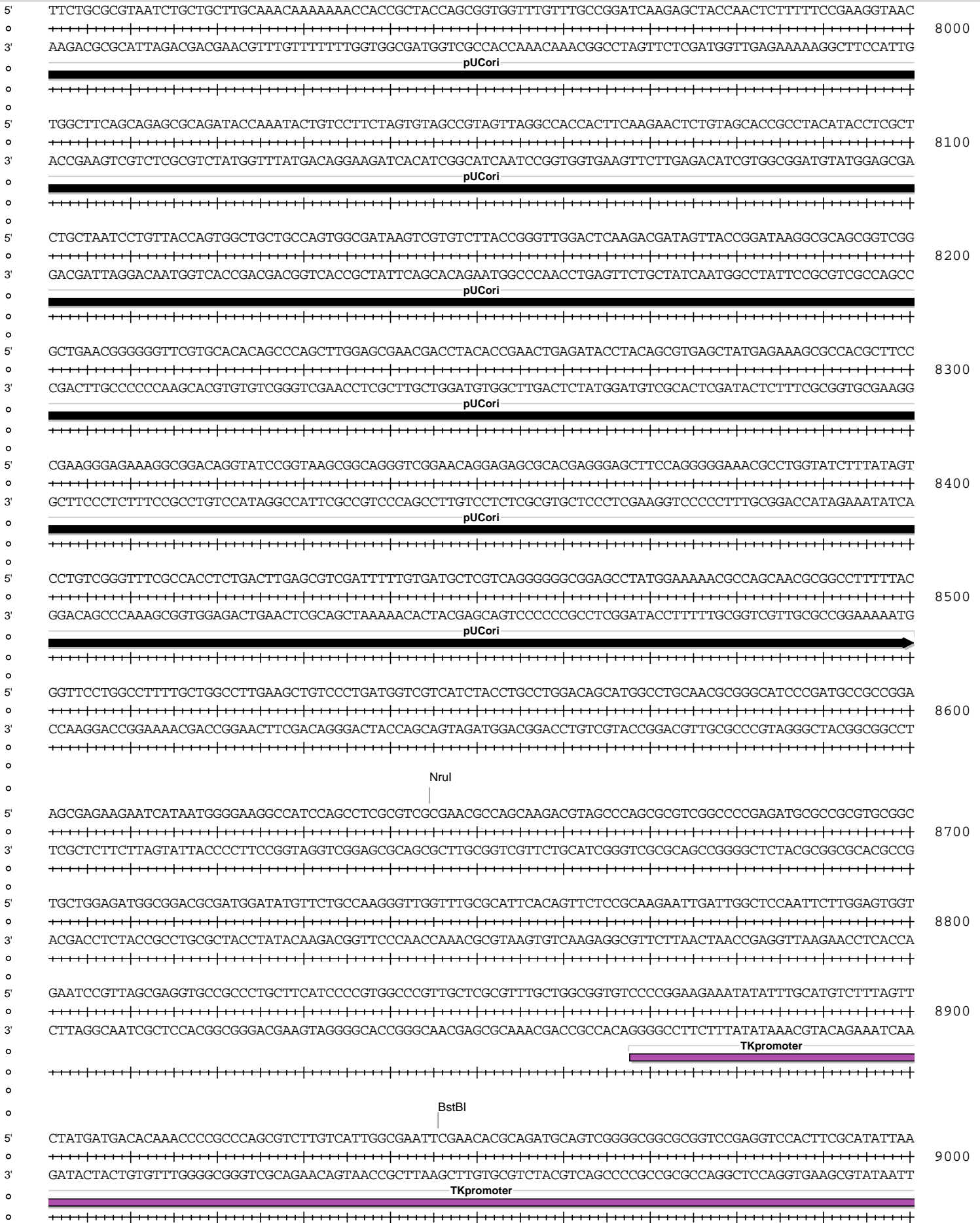
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 5700  
 3' ACGGGGAGGACGGGGAGGACGAGGACGGGGAGGAGGACGAGGACGGGGAGGACGGGGAGGAGGACGAGGACGGGGAGGACGAGGACGGGGAGGAGGA  
 EBNA-1

5' GCTCCTGCCCCCTCTCCTGCTCCTGCCCCCTCTGCCCCCTCTGCTCCTGCCCCCTCTGCTCCTGCCCCCTCTGCTCCTGCCCCCTCTCCTG  
 5800  
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 EBNA-1

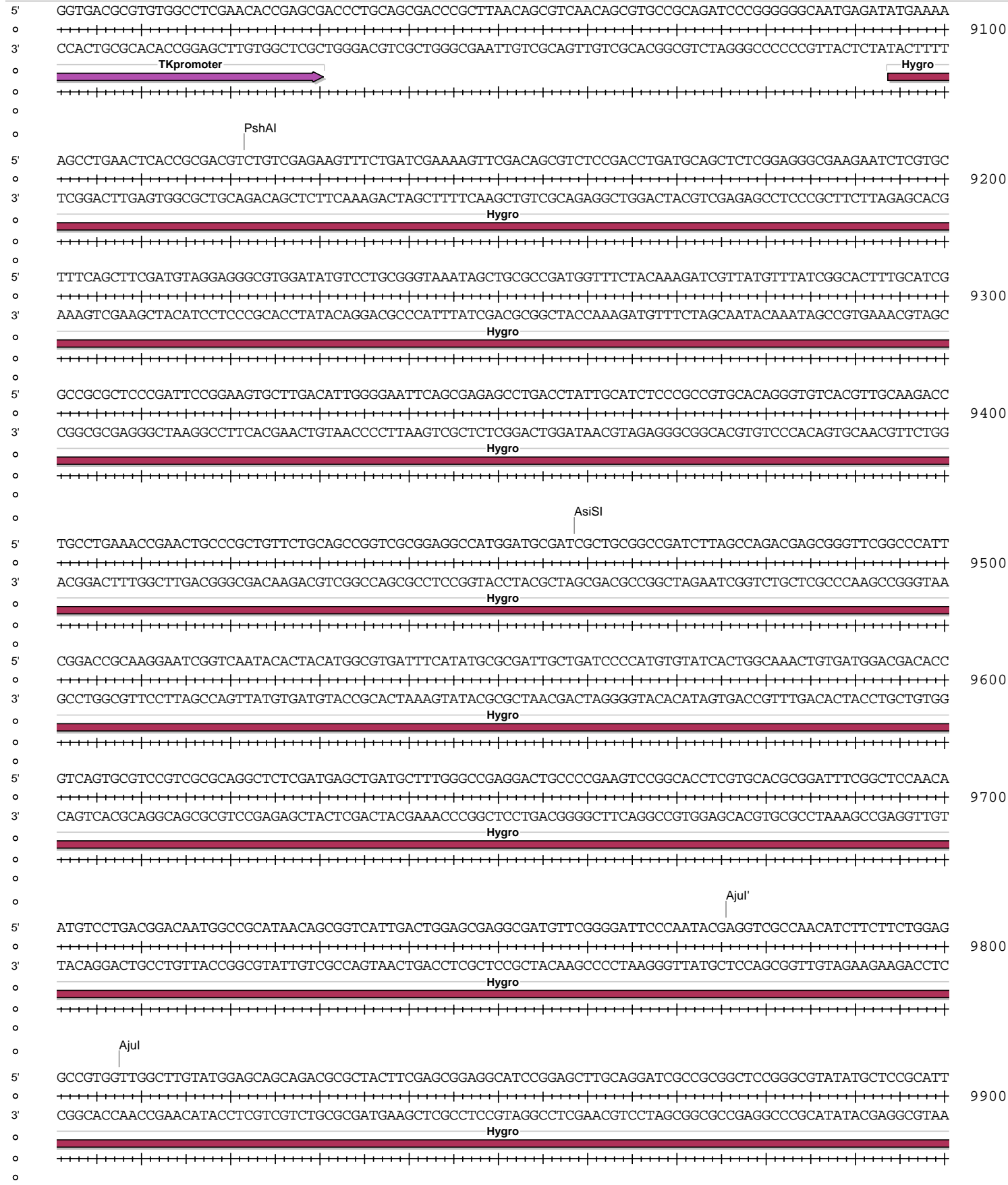




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