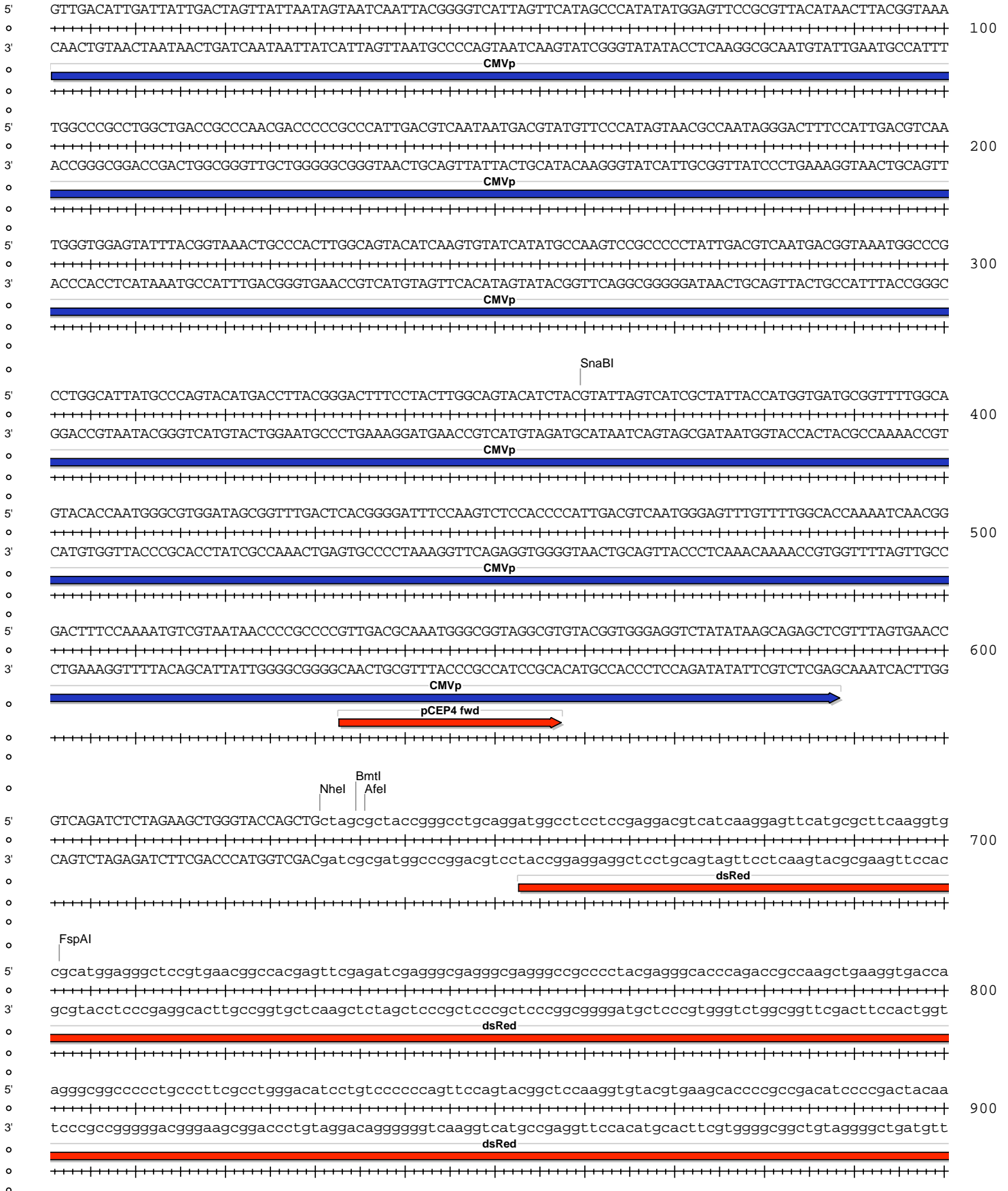


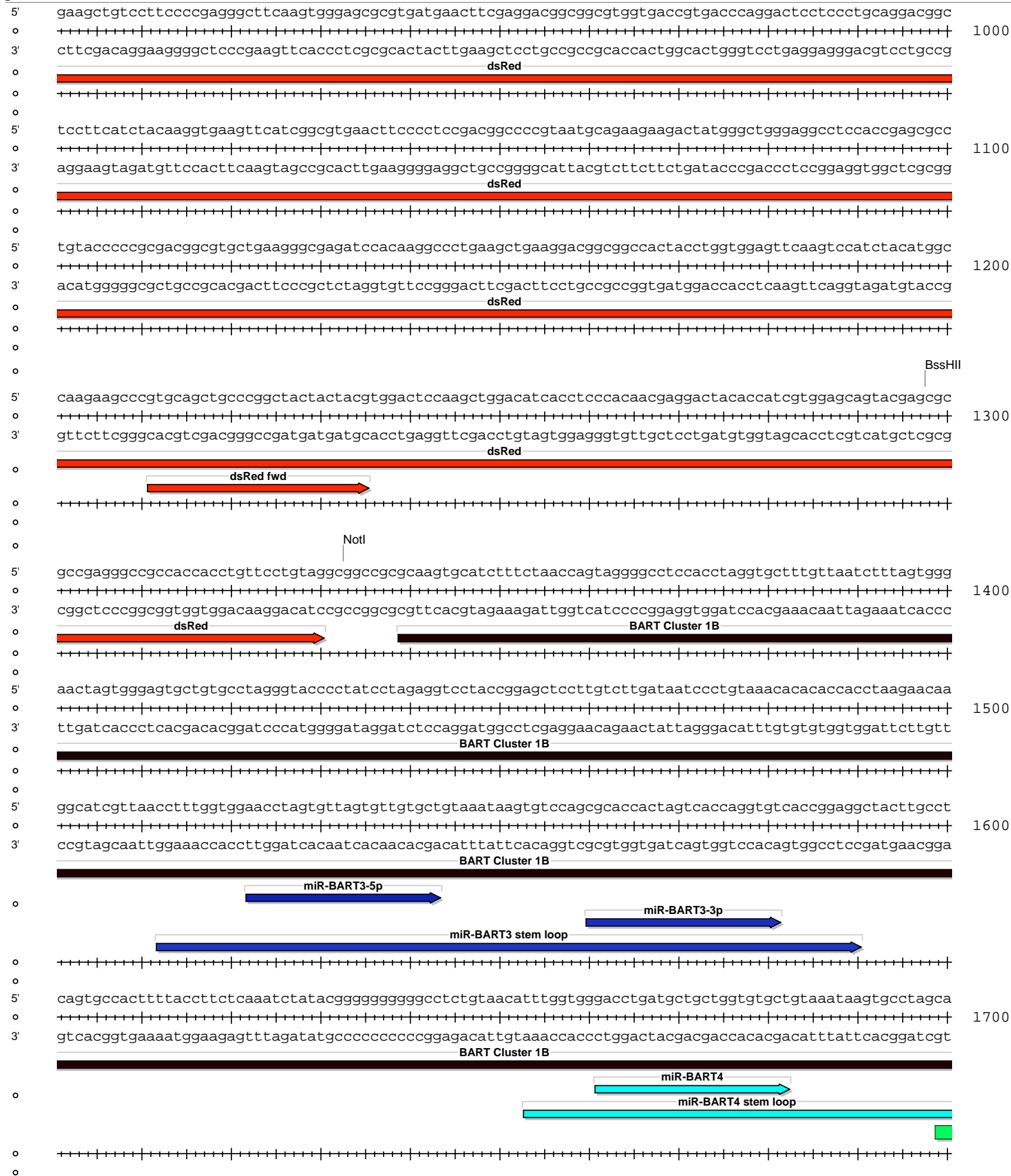
pCEP4-dsRed-BART1-6

Absent Sites	0	AbsI,AfIII,AscI,BarI,BarI',BbeI,BclI,BlpI,BsiWI,BstZ17I,FseI,HindIII,KasI,MauBI,MreI,NaeI,NarI,NgoMIV,PacI,PspXI,PsrI,PsrI',SapI,SfiI,SfoI,SgrDI,SphI,Swal,XhoI
AarI	1	2562
AfeI	1	636
AgeI	1	2148
AjuI	1	11252
AjuI'	1	11220
AsiSI	1	10903
BaeI	1	4271
BaeI'	1	4238
BamHI	1	2801
BbvCI	1	5957
BmiI	1	635
BsrGI	1	12278
BssHII	1	1298
BstBI	1	10390
EcoNI	1	7992
EcoRV	1	3791
FspAI	1	702
NheI	1	631
NotI	1	1333
NruI	1	10089
PmeI	1	2076
PmlI	1	2689
PshAI	1	10566
SgrAI	1	6158
SnaBI	1	360
SrfI	1	1848
XmnI	1	8488

pCEP4-dsRed-BART1-6



pCEP4-dsRed-BART1-6



pCEP4-dsRed-BART1-6

5' catcacgtaggcaccaggtgtcaccagggctacttgctcgcgcatctcctcaccggagaaggggttaacaacccgtggggggtcttagtggaagtgacg
 1800
 3' gtagtgcatccgtggtccacagtggccccgatgaacggagccgtagaggagtgccctctccccaatggttgggacccccagaaatcaccttcaactgc

BART Cluster 1B

miR-BART1-5p

miR-BART1 stem loop

miR-BART4 stem loop

ebv-mir-BART4-3P

SrfI

5' tgctgtgaatacaggtccatagcaccgctatccactatgtctcgcccgggctatatgtcgccttacctcccctgtatagtcacgacccccaccgaaccagg
 1900
 3' acgacacttatgtccaggtatcgtggcgataggtgatacagagcgggcccgaataacagcgggaatggaggggacatatcagtgtgggggtggcttgggtcc

BART Cluster 1B

miR...5p

miR-BART1-3p

miR-BART1 stem loop

5' catgatgtagaataaaaattttatgcatcgtcttctaatctgtgcccgttggagggaaacatgaccacctgaagtctgtaaccaggtcagtggttttgtt
 2000
 3' gtactacatcttattttaaaatacgttagcagaagattagacacggcgaacctcccttgtactggtggacttcagacaattgggtccagtcaccaaataca

BART Cluster 1B

miR-BART15

miR-BART15 stem loop

PmeI

5' tccttgatagagacacaaggactgccagccccgttgggaggggggtggggtaacgggagaatttgggctcgtttaacaaagcctcctctgatgctctg
 2100
 3' aggaactatctctgtgttctctgacggtcggggcaacccccccccaccaccatgcctcttaaaccggagcaaatgtgttcggaggagactacggagac

BART Cluster 1B

miR-BART15

miR-BART15 stem loop

miR...op

AgeI

5' tggcacctcaaggtgaatatagctgcccatcgacgtatcgctggaaaccggtgggcccgtgttcacctaaagtgacgcaaggtctgtcagccgccaggt
 2200
 3' accgtggagttccacttataatcgacgggtagctgcatagcgaccttggccaccggcgacaagtggatttcaactcgttccagacagtcggcggtcca

BART Cluster 1B

miR-BART5

miR-BART5 stem loop

ebv-mir-BART5-3P

5' ccgtttaccaggctttcaggtgtggaatttagatagagtggtgtgtgctctgtttaattacaccaagatcaccaccctctatccatatcccacaattg
 2300
 3' ggcaaatggtccgaaagtccacaccttaaattctatctcaccacacacgagaacaaattaatgtggttctagtgggtgggagataggtatagggtgttaac

BART Cluster 1B

miR-BART16

miR-BART16 stem loop

pCEP4-dsRed-BART1-6

5' ataacctcgcgatgtccaaccaccacgttgacaggatgtggcaccctaagaggacgcaggcatacaaggttattaccagtccttgtatgacctgggtg
 3' tatttgaggcgtacaggttgggtggtgcaactgtcctacaccgtgggattctcctgcgtccgatatgtccaataatgggtcaggaacatcaggaccaca

BART Cluster 1B

miR-BART17-5p

miR-BART17-3p

miR-...loop

miR-BART17 stem loop

5' cccttagtgggacgcaggcctaggtagcatcatttactactaaaagcagtgacctgttgggtactttaaggttgggtccaatccataggctttttttgtga
 3' ggggaatcaccctgcgtccggatccatcgtagtaaatgtgattttcgtcactggaacaaccatgaaattccaaccagggttaggtatccgaaaaaacct

BART Cluster 1B

miR-...-3p

miR-BART17 stem loop

miR-BART6-5p

miR-BART6 stem loop

5' aaaccgggatcggactagccttagagtaactcaaggccaagcatttcacacctgcaaatgcaccatgtaaccacagatctaaactgaaagttgcagct
 3' ttggggccctagcctgatcggaatctcattgagttccgggttcgtaaagtgaggcgtttacgtggtacattgggtgtctagatttgactttcaacgtcga

BART Cluster 1B

AarI

miR-BART6-3p

miR-BART6 stem loop

5' ttagatggcaaggaaacttgggtttcaggcatagaaagcctgggtcactatagcagcccatgttgttccagggtgggggaaaggcacgtgccccttagaa
 3' aatctaccgttccttgaacccaaagtccgtatcttccggaccgagtgatcggtcggtacaaacaagggtcccaccccttccgtgcacgggaatctt

BART Cluster 1B

PmlI

5' aacttagctgcaaaaattctattgtgtgggagagcctctatatctaaaggcctttcctcacaatacaaatgttactaacgtctgcgAATTCGACTGACG
 3' ttgaatcgacgtttttaagataacacaaccctctcggagatatagattccggaaggagtggtatggttacaatgattgcagacgcTTAAGCTGACTGC

BART Cluster 1B

BamHI

5' GATCCAGACATGATAAGATACATTGATGAGTTGGACAAACCACAAC TAGAATGCAGTGAAAAAATGCTTTATTTGTGAAATTTGTGATGCTATTGCTT
 3' CTAGGTCTGTACTATTCTATGTAAC TACTCAAACCTGTTGGTGTGATCTTACGTC ACTTTTTTTACGAAATAAACACTTTAAACACTACGATAACGAA

SV40pA

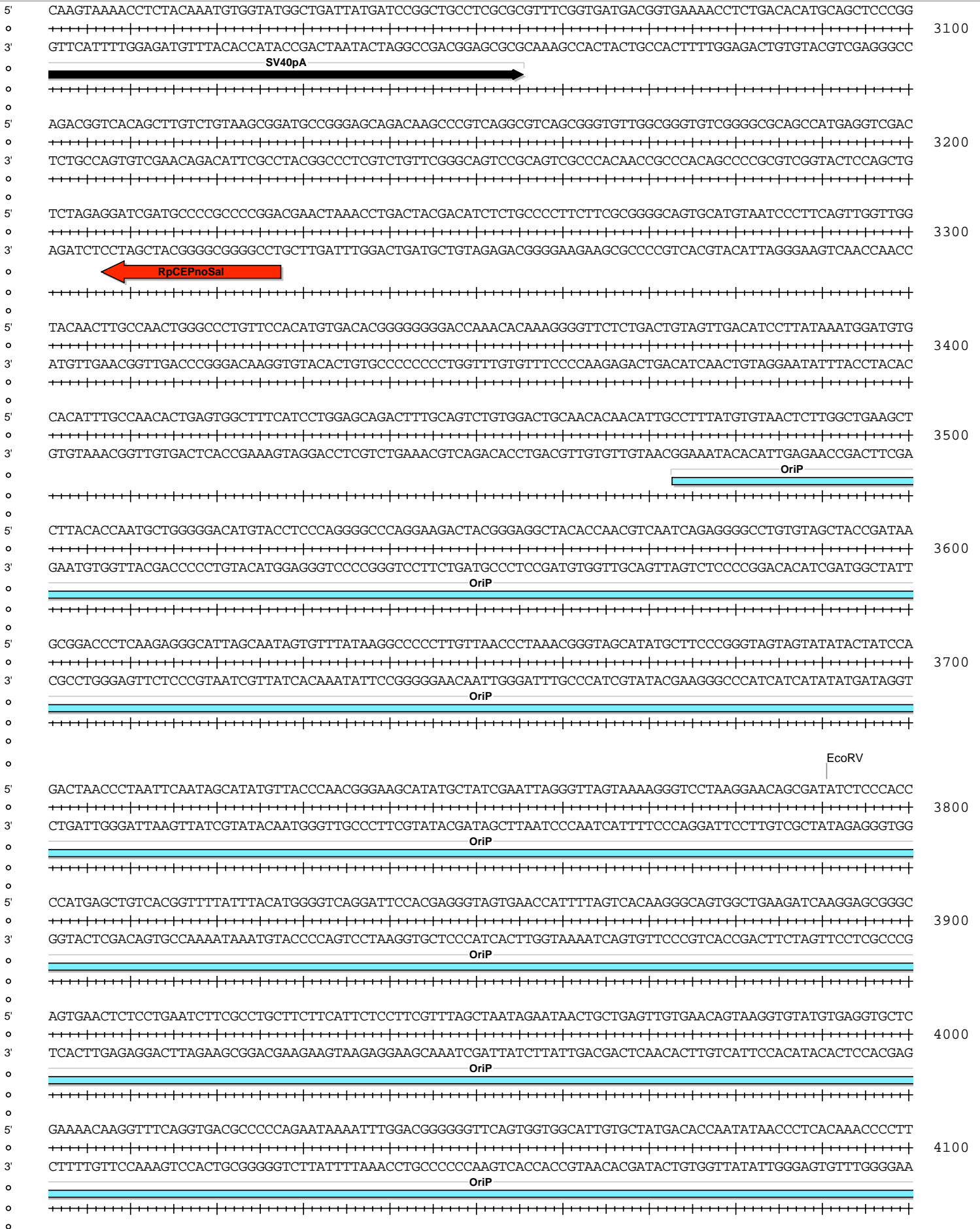
pCEP4 rev

5' TATTTGTAACCATTATAAGCTGCAATAACAAGTTAAACAACAACAATTGCATTCATTTATGTTTCAGGTTTCAGGGGAGGTGTGGGAGGTTTTTTAAAG
 3' ATAAACATTTGGTAATATTCGACGTTATTTGTTCAATTTGTTGTTAAGCTAAGTAAAATACAAAGTCCAAGTCCCCTCCACACCTCCAAAAAATTC

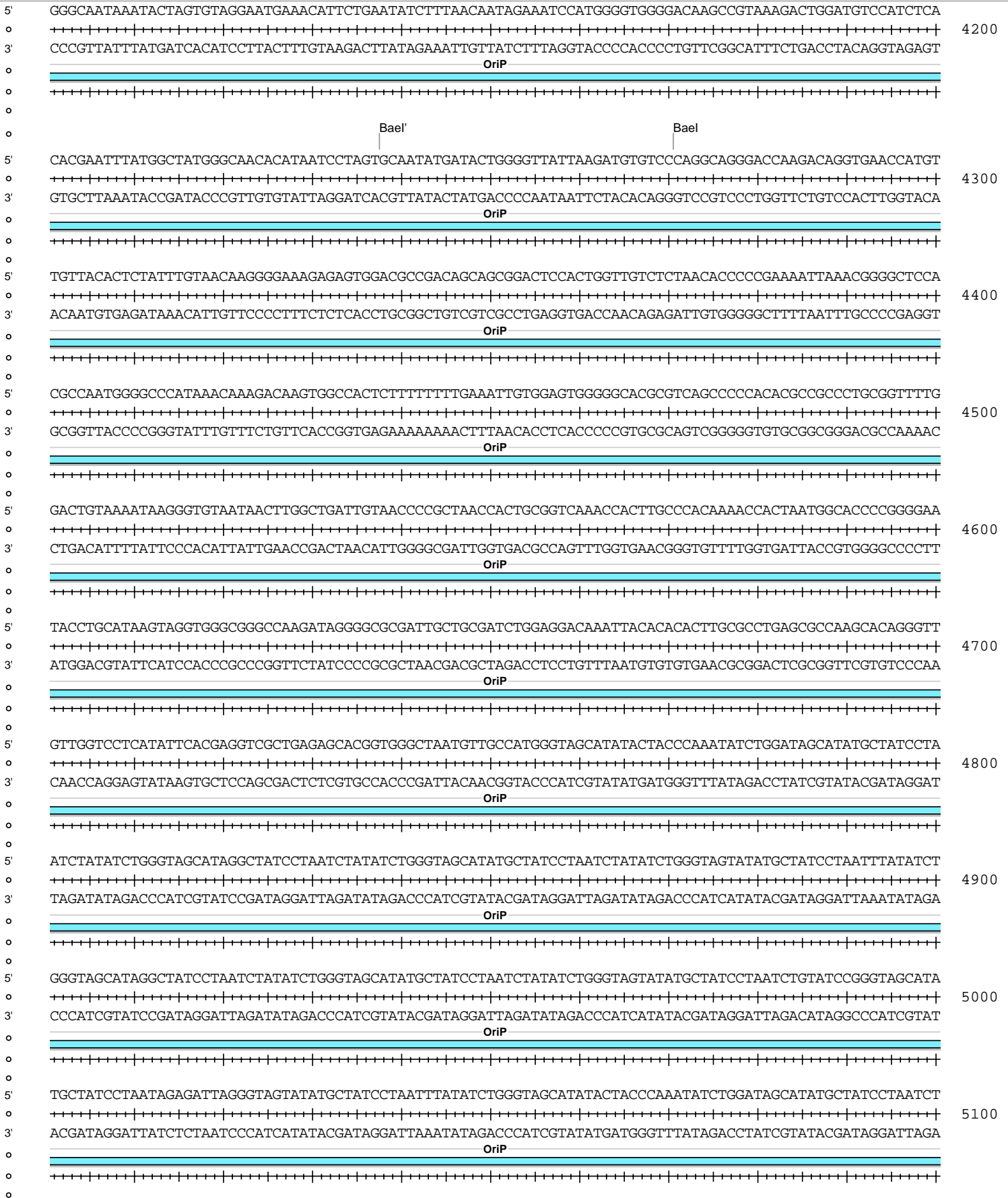
SV40pA

R pCEP3'seq

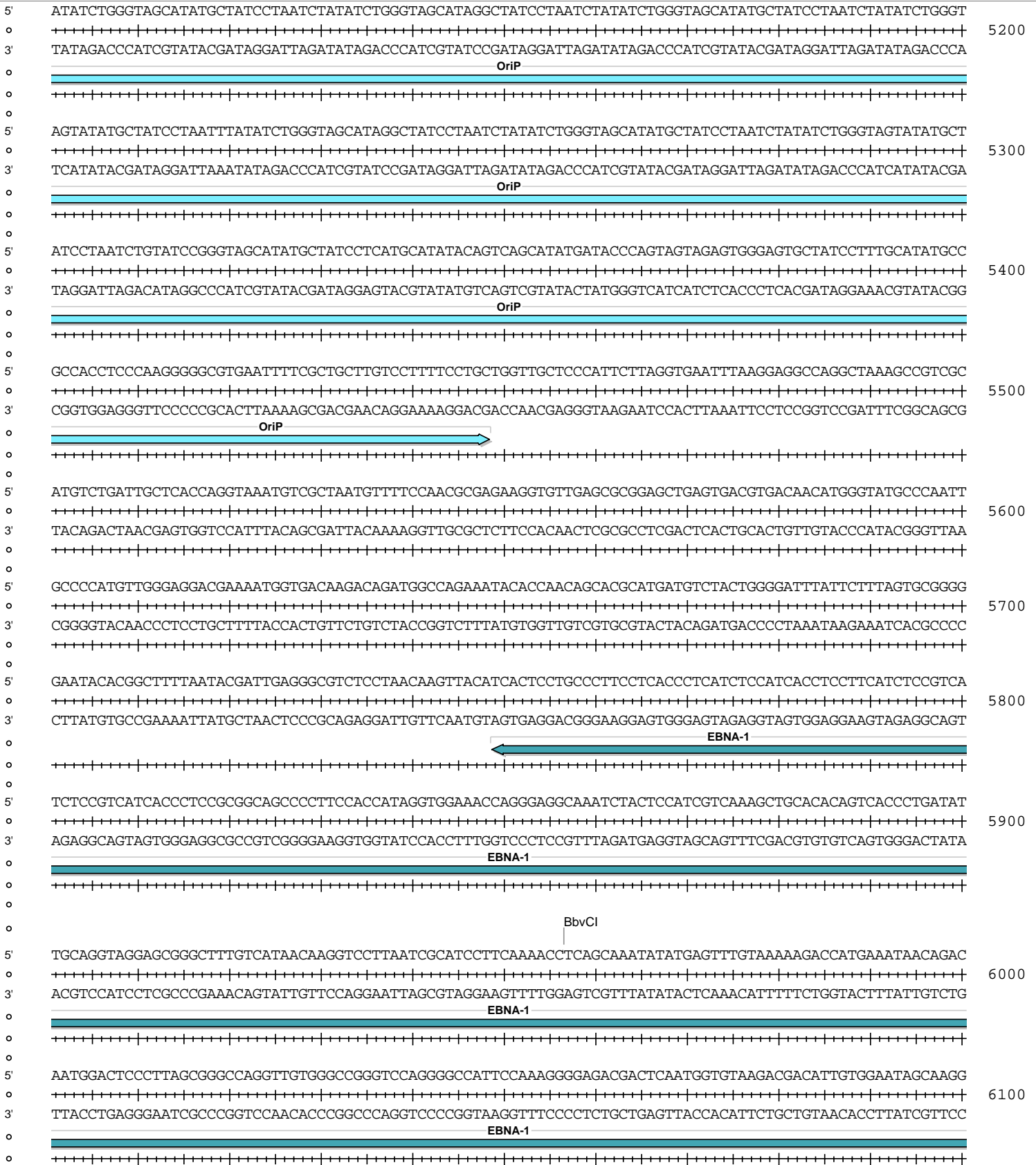
pCEP4-dsRed-BART1-6



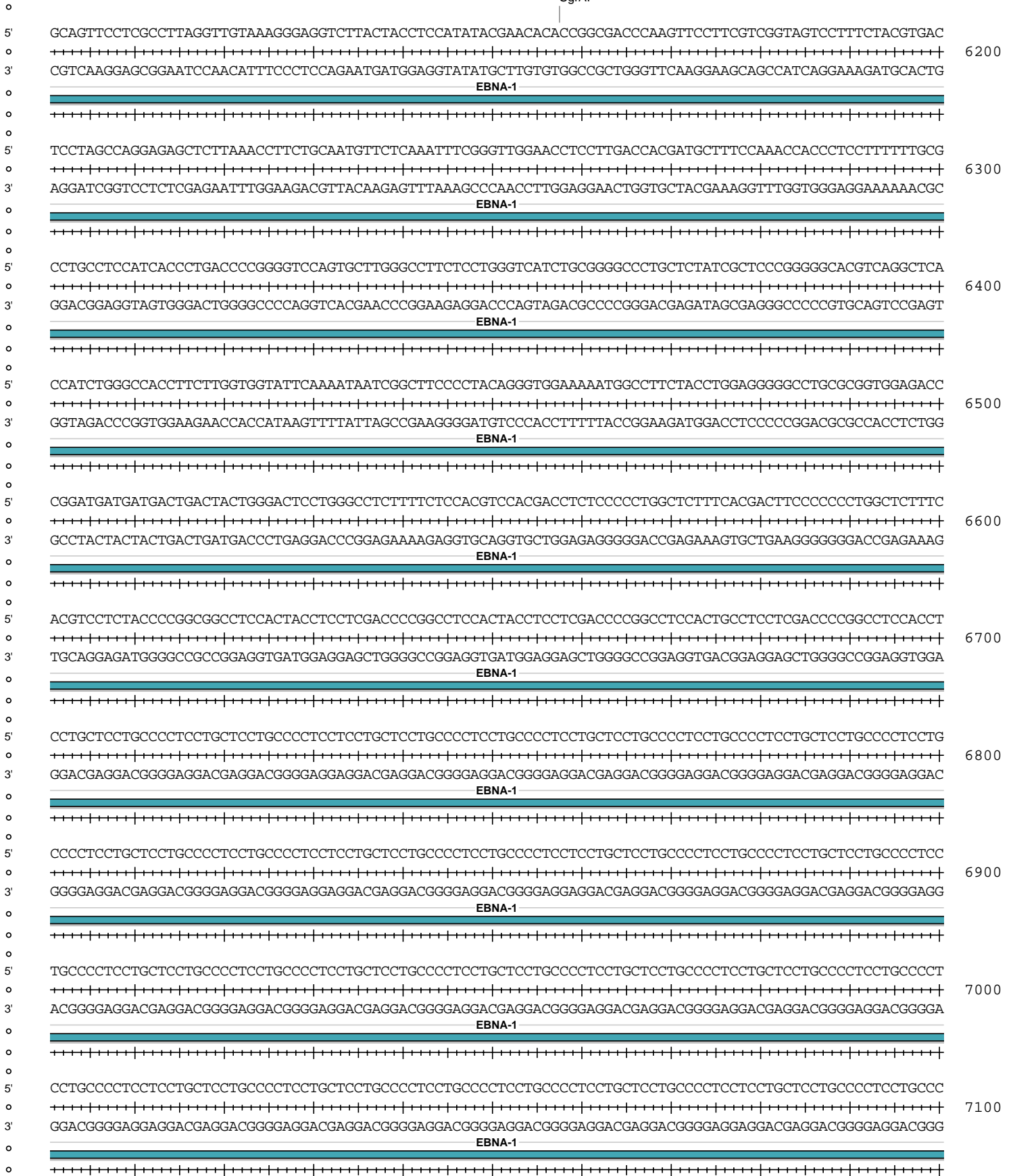
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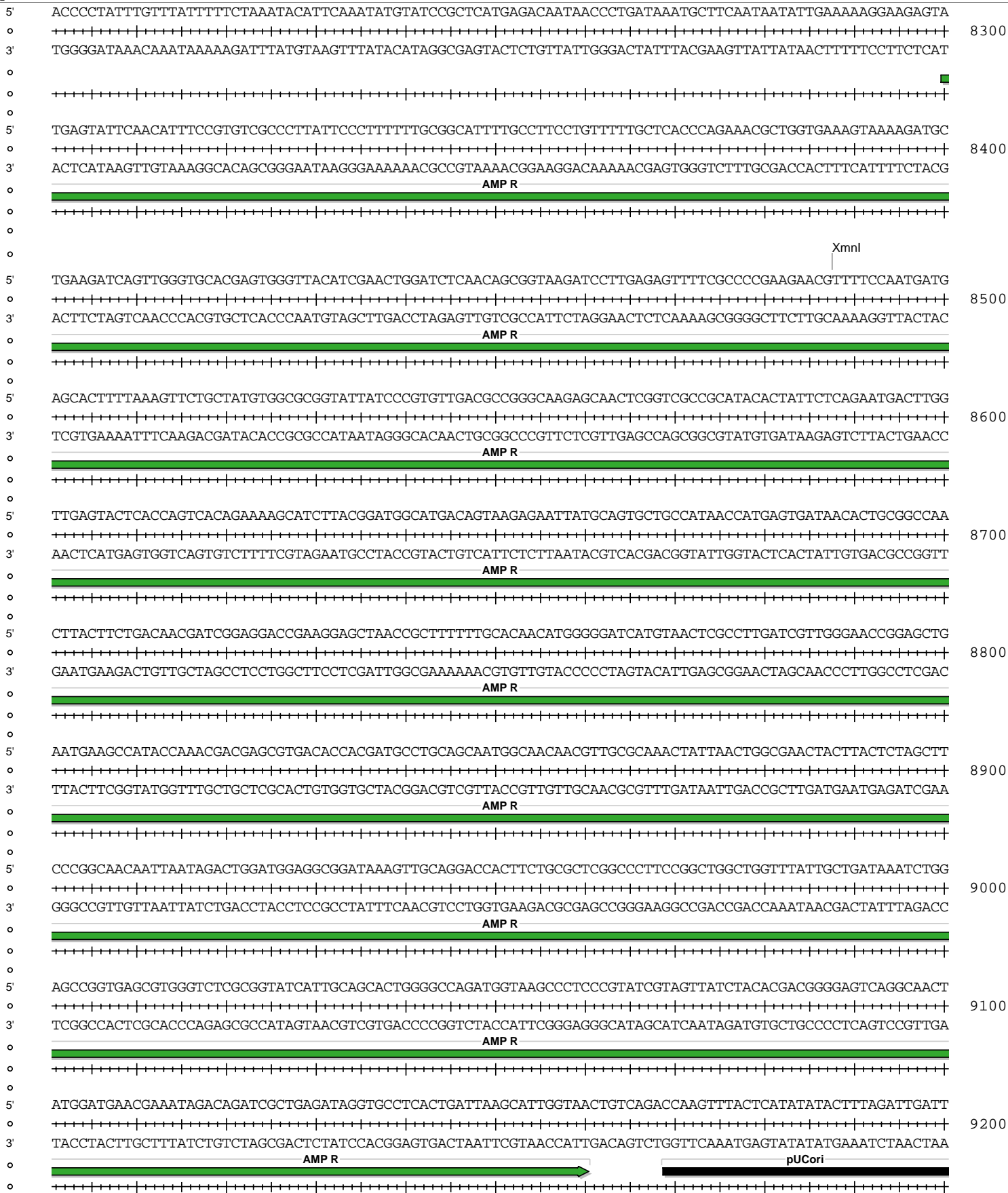
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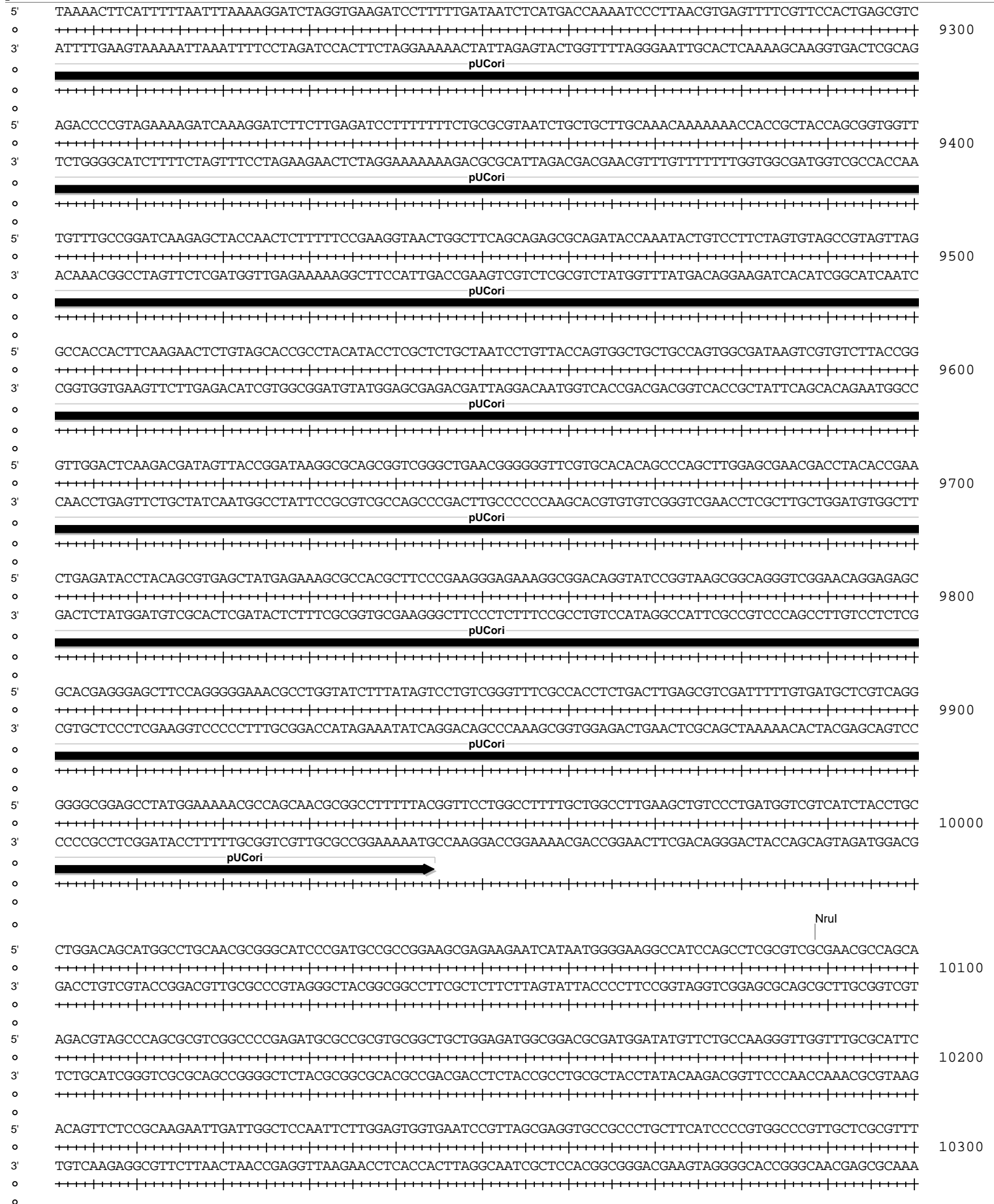


SgrAI

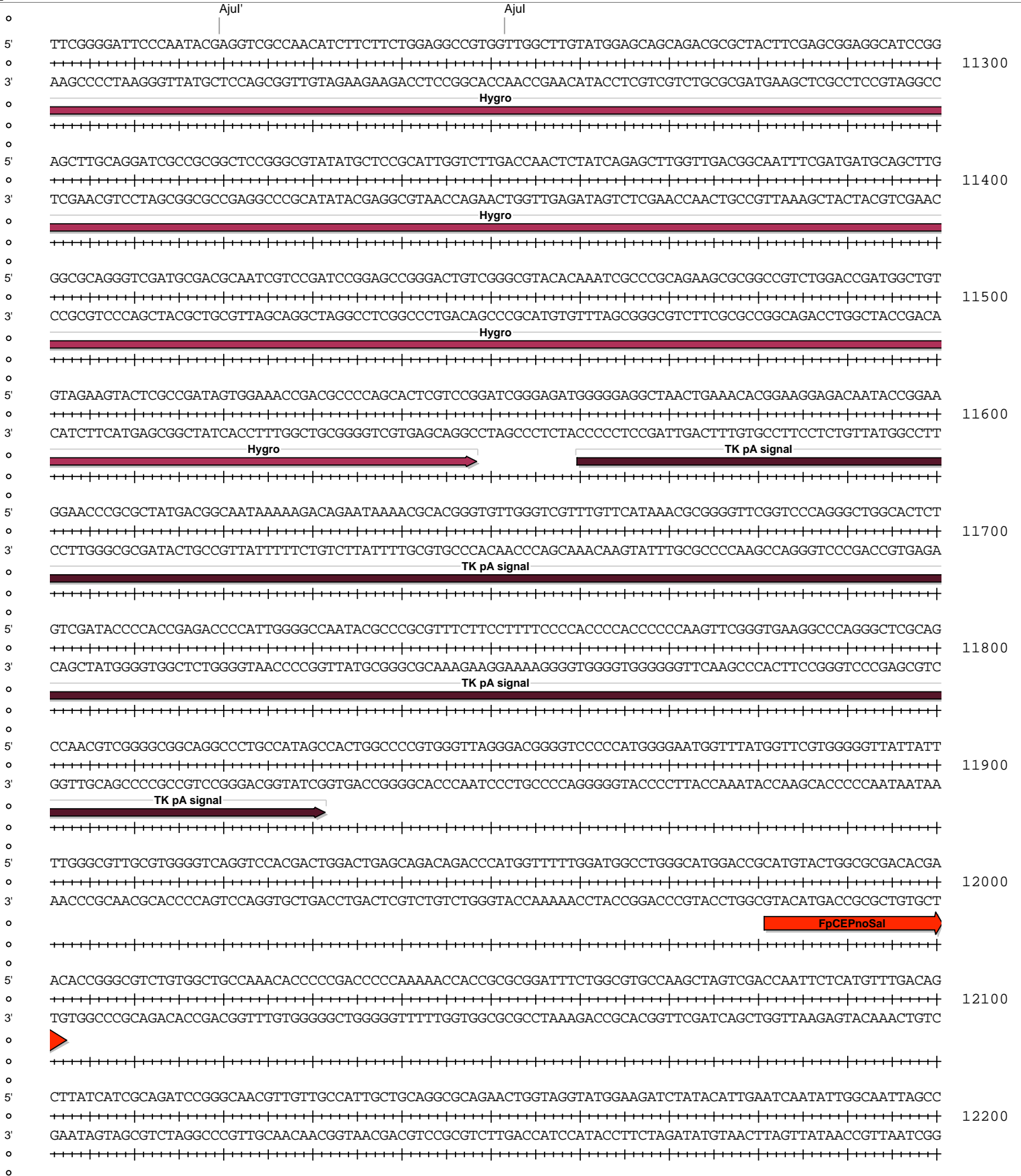


pCEP4-dsRed-BART1-6









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o
                                     BsrGI
                                     |
5'  ATATTAGTCATTGGTTATATAGCATAAATCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATAAATGTACATTTATATTGGCTCATGTC
o  ++++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|
3'  TATAATCAGTAACCAATATATCGTATTTAGTTATAACCGATAACCGTAACGTATGCAACATAGATATAGTATTATACATGTAAATATAACCGAGTACAG
o  ++++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|+++++|
o
5'  CAATATGACCGCCAT
o  ++++++|+++++
3'  GTTATACTGGCGGTA
o  ++++++|+++++
o
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