

Absent Sites	0	Aarl,AbsI,Ajul,Ajul',AlfI,AlfI',Alol,Alol',Ascl,AsiSI,BaeI,BaeI',BarI,BarI',BclI,BlpI,BmgBI,BsaBI,BsiWI,BspMI,BstBI,BstXI,BstZ17I,FspAI,HpaI,MauBI,MreI,PmlI,PshAI,Psil,PspXI,Psrl,Psrl',RsrII,SbfI,SexAI,SgrAI,SrfI,StuI,Swal,TstI,TstI',Tth111I,XcmI,XhoI
Acc65I	1	6762 (9146)
AfeI	1	3195 (9146)
AgeI	1	3199 (9146)
AhdI	1	8227 (9146)
AvrII	1	4454 (9146)
BamHI	1	3976 (9146)
BbeI	1	984 (9146)
BbvCI	1	1767 (9146)
BsaXI	1	2191 (9146)
BsaXI'	1	2161 (9146)
BseYI	1	7638 (9146)
BssHII	1	1054 (9146)
BstEII	1	3955 (9146)
Bsu36I	1	6758 (9146)
DrdI	1	7442 (9146)
EcoNI	1	1513 (9146)
EcoRI	1	4722 (9146)
FseI	1	1491 (9146)
FspI	1	8449 (9146)
GsaI	1	7642 (9146)
KasI	1	980 (9146)
KpnI	1	6766 (9146)
NarI	1	981 (9146)
NotI	1	3932 (9146)
PacI	1	5938 (9146)
PciI	1	5914 (9146)
PstI	1	2380 (9146)
SacII	1	6539 (9146)
SapI	1	1443 (9146)
SfiI	1	4104 (9146)
SfoI	1	982 (9146)
SgrDI	1	2 (9146)
SmaI	1	4701 (9146)
SpeI	1	253 (9146)
SphI	1	4133 (9146)
XbaI	1	2576 (9146)
XmaI	1	4699 (9146)

p201 (pPRIME-CMV-GFP-FF3)

SgrDI

5' gtcgacggatcgggagatctcccgatcccctatggtgcactctcagtacaatctgctctgatgccgcatagttaagccagtatctgctccctgcttgtgt  
 100  
 3' cagctgcctagccctctagagggctaggggataccacgtgagagtcaggttagacgagactacggcgatcaattcgggtcatagacgagggacgaacaca  
 +

5' gttggaggtcgctgagtagtgcgcgagcaaaathtaagctacaacaaggcaaggcttgaccgacaattgcatgaagaatctgcttaggggttaggcgttt  
 200  
 3' caacctccagcgactcatcacgcgctcgtttaaatcagatggttccgttccgaactggctgtaacgtacttcttagacgaatccaatccgcaaaa  
 +

Spel

5' gcgctgcttcgogatgtacgggcccagatatacgcgcttgacattgattattgactagttattaatagtaatacaattacgggggtcattagttcatagcccat  
 300  
 3' cgcgacgaagcgctacatgcccggctctatatgcgcaactgtaactaataactgatcaataattatcattagttaatgcccagtaatacaagatcgggta  
 +

5' atatggagttccgcttacataaacttacggtaaatggcccgcctggctgaccgcccacgacccccgccattgacgtcaataatgacgtatgtcccat  
 400  
 3' tatacctcaaggcgcaatgtattgaatgccatttacggggcggaccgactggcgggtgctggggcgggtaactgcagttattactgcatacaagggt  
 +

5' agtaacgccaatagggactttccattgacgtcaatgggtggagatattacggtaactgcccaactggcagtcacatcaagtgtatcatatgccaaagtacg  
 500  
 3' tcatgcggttatccctgaaaggtaactgcagttaccacctcataaatgccattgacgggtgaaccgtcatgtagttcacatagatacggttcatgc  
 +

5' cccctattgacgtcaatgacggtaaatggcccgcctggcattatgccagtcacatgacctatgggactttcctacttggcagtcacatctacgtattag  
 600  
 3' gggggataactgcagttactgccatttacggggcggaccgtaatacgggtcatgtactggaataccctgaaaggatgaaccgtcatgtagatgcataatc  
 +

5' tcatcgctattaccatgggtgatgcgggttttggcagtcacatcaatgggcgtggatagcgggttgactcacggggatttccaagtctccacccattgacgt  
 700  
 3' agtagcgataatggtaccactacgcaaaaaccgtcatgtagttaccgcacctatcgccaaactgagtgcccctaaagggttcagaggtgggtaactgca  
 +

5' caatgggagttgttttggcaccaaaatcaacgggactttccaaaatgtcgtacaactccgccccattgacgcaaatggcggtaggcgtgtacgggtg  
 800  
 3' gttaccctcaaacaaaaccgtggttttagttgcctgaaagggttttacagcatggtgagggcgggtaactgcgtttaccggccatccgcacatgccacc  
 +

5' gaggtctatagaccagatctgagcctgggagctctctggctaactaggaaccactgcttaagcctcaataaagcttgcttgagtgctcaagtagtg  
 900  
 3' ctccagatatctggctagactcggaccctcgagagaccgattgatccctgggtgacgaattcggagttatttgaacggaactcacgaagttcatcac  
 +

LTR

KasI  
 NarI  
 SfoI  
 BbeI

5' tgtgccgctctgttgtgtgactctggttaactagagatccctcagacccttttagtcagtggtgaaaaatctctagcagtgggcgccgaacagggacttgaa  
 1000  
 3' acacgggcagacaacacactgagaccattgatctctagggagctctgggaaaaatcagtcacaccttttagagatcgtcaccgcgggcttgcctcctgaactt  
 +

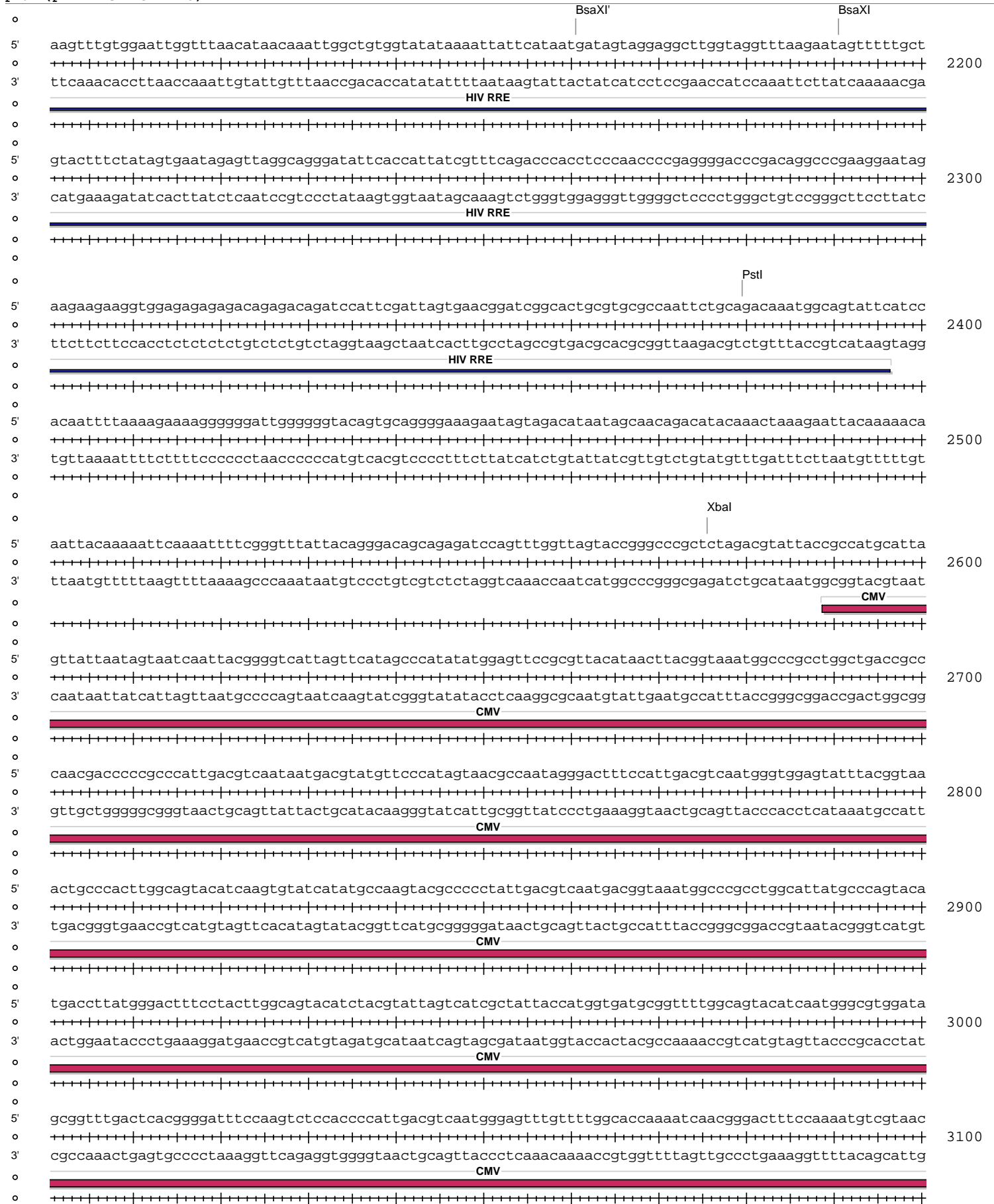
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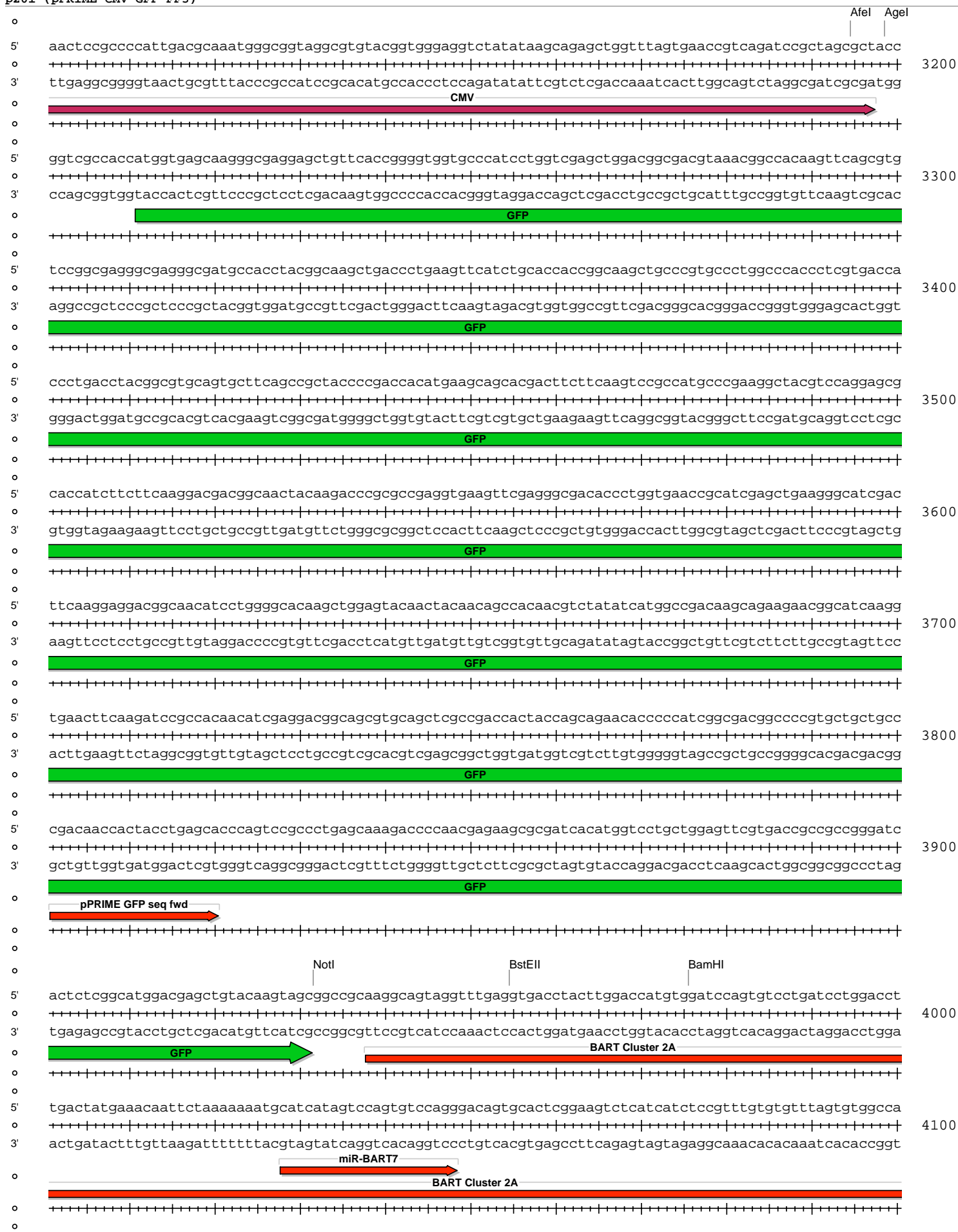
BssHII

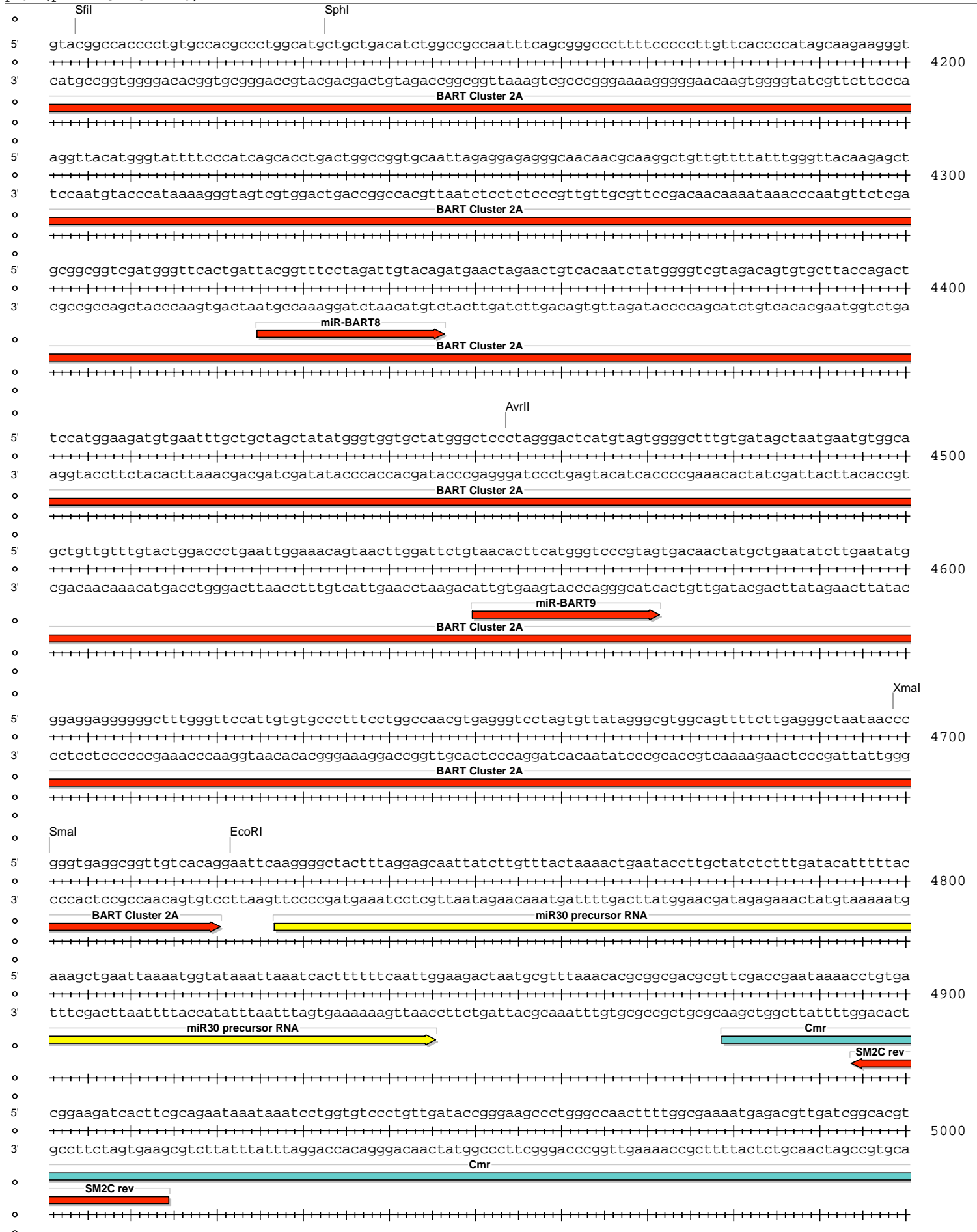
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 1100  
 3' tcgctttcccttggctcctcagagagactgcgctcctgagccgaacgacttcgcgcgctgcccgttctccgctccccgcccgtgaccactcatgcggtttt  
 +

LTR

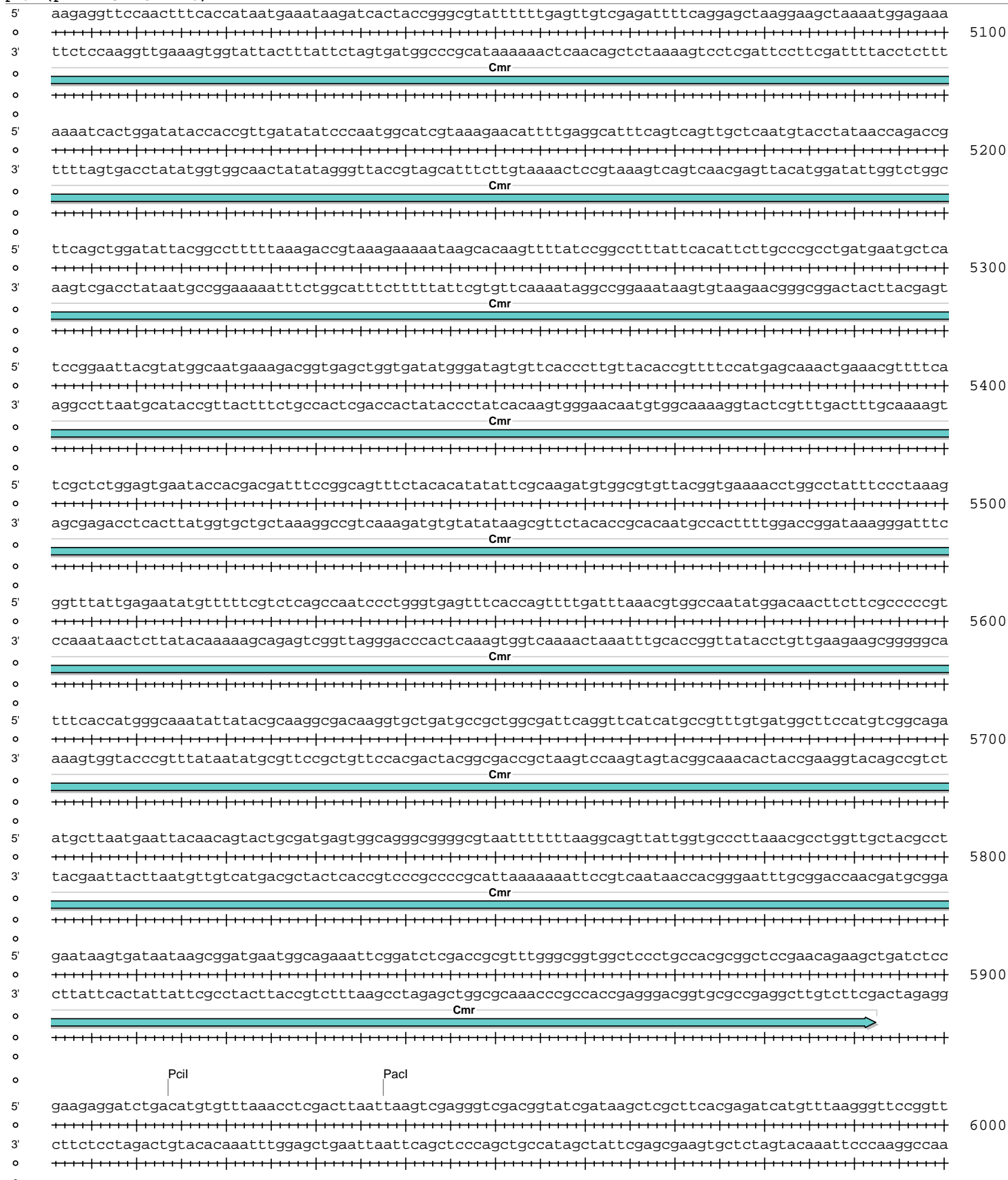






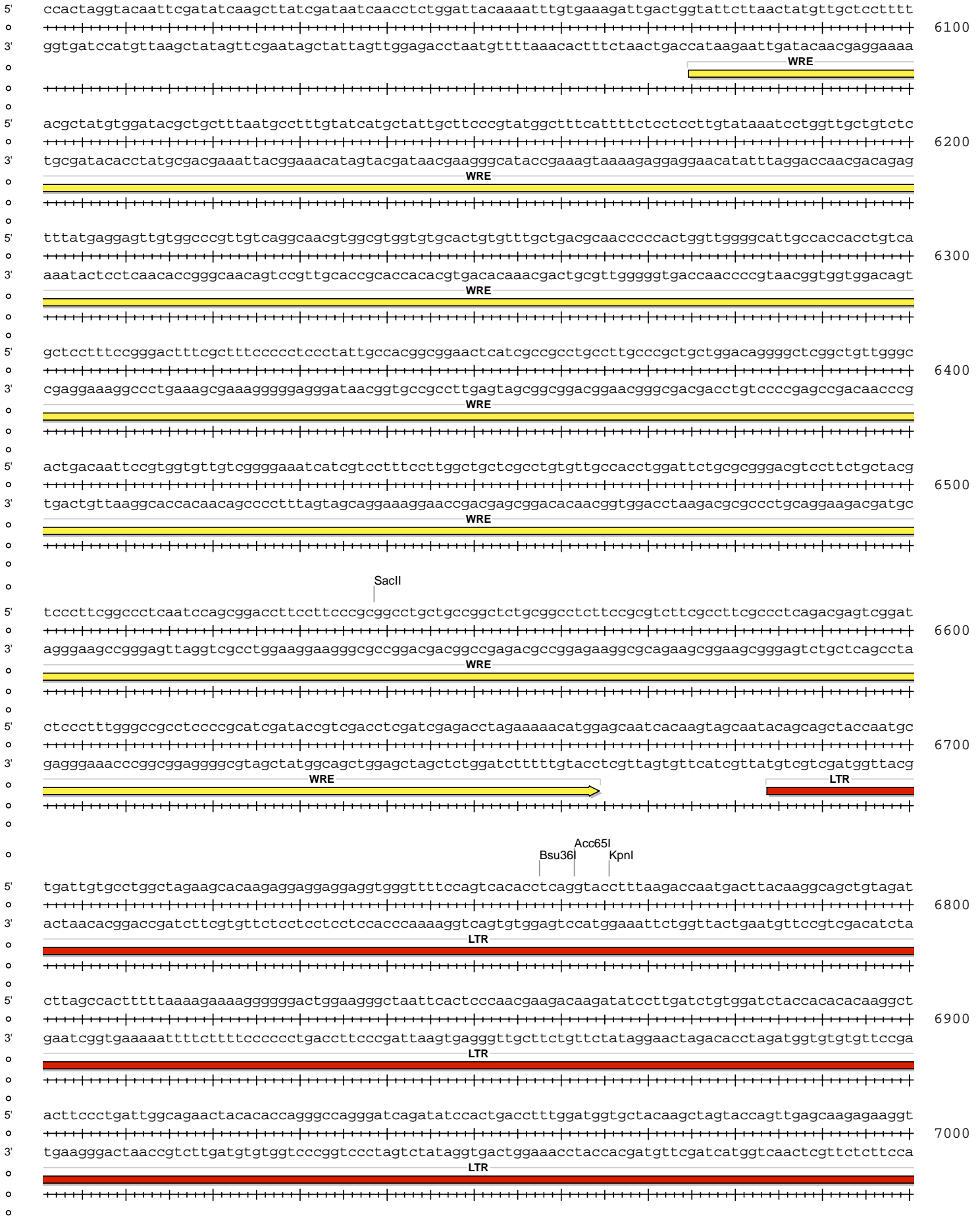


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5' agaagaagccaatgaaggagagaacaccgcttgttacaccctgtgagcctgcatgggatggatgacccggagagagaagtattagagtggaggtttgac 7100  
 o ++++++  
 3' tcttcttcggttacttctctcttgtggggaacaatgtgggacactcggacgtaccctacctaactgggctctctcttcataatctcacctccaaactg  
 o LTR  
 o ++++++  
 o ++++++

5' agccgcctagcatttcatcacatggcccagagctgcatccggactgtaactgggtctctctggtagaccagatctgagcctgggagctctctggctaac 7200  
 o ++++++  
 3' tcggcggatcgtaaagtagtaccgggctctcgacgtaggcctgacatgacccagagagaccaatctggctctagactcggaccctcgagagaccgatg  
 o LTR  
 o ++++++  
 o ++++++

5' tagggaaccactgcttaagcctcaataaagcttgccctgagtgcttcaagtagtgtgtgccgtctgttgtgtgactctggtaactagagatccctcag 7300  
 o ++++++  
 3' atcccttgggtgacgaattcggagttatttcgaacggaactcacgaagtcatcacacacgggcagacaacacactgagaccattgatctctagggagtc  
 o LTR  
 o ++++++  
 o ++++++

5' acccttttagtcagtgaggaaaatctctagcagcatgtgagcaaaaggccagcaaaaggccaggaaccgtaaaaaggccgcttctggcgtttttccat 7400  
 o ++++++  
 3' tgggaaaatcagtcacaccttttagagatcgtcgtacactcgttttcggctcgttttcggctccttggcatttttcggcgcaacgaccgcaaaaaggta  
 o LTR  
 o ++++++  
 o ++++++

DrdI

5' aggctccgccccctgacgagcatcacaaaaatcgacgctcaagttagaggtggcgaaacccgacaggaactataaagataaccaggcgtttccccctggaa 7500  
 o ++++++  
 3' tccgaggcgggggactgctcgtagtggttttagctgaggttcagctcaccgcttgggctgtcctgatatttctatggtccgcaaaagggggacctt  
 o ++++++

5' gctccctcgtgcgctctcctgttccgacctgcccgttacccgatacctgtccgcctttctcccttcgggaagcgtggcgctttctcatagctcacgctg 7600  
 o ++++++  
 3' cgagggagcacgcgagaggacaaggctgggacggcgaatggcctatggacaggcggaaagagggaaagcccttcgaccgcgaaagagtatcgagtgcgac  
 o ++++++

BseYI      GsaI

5' taggtatctcagttcgggtgtaggtcgttcgctccaagctgggctgtgtgcaacgaaccccccttcagcccgaccgctgcgccttatccggtaaactatcgt 7700  
 o ++++++  
 3' atccatagagtcaagccacatccagcaagcgaggttcgacccgacacacgtgcttggggggcaagtccggctggcgacgcggaataggccattgatagca  
 o ++++++

5' cttgagtccaaccgtaagacacgacttatcgccactggcagcagccactggtaacaggattagcagagcgaggtatgtaggcgggtgctacagagttct 7800  
 o ++++++  
 3' gaactcaggttggccattctgtgctgaatagcggtagccgtcgtcggtagccattgtcctaactcgtctcgctccatacatccgccacgatgtctcaaga  
 o ++++++

5' tgaagtgggtggcctaactacggctacactagaagaacagtatttggtatctgcgctctgctgaagccagttaccttcgaaaaagagtggtagctcttg 7900  
 o ++++++  
 3' acttcaccaccggattgatgccgatgtgatcttctgtcataaacatagacgcgagacgacttcggtaaatggaagcctttttctcaaccatcgagaac  
 o ++++++

5' atccggcaaaaccaccgctggtagcgggtgttttttgtttgcaagcagcagattacgcgcagaaaaaaaggatctcaagaagatcctttgatcttt 8000  
 o ++++++  
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 o ++++++

5' tctacggggtctgacgctcagtggaacgaaaactcacgtaagggttttgggtcatgagattatcaaaaaggatcttcacctagatccttttaatttaa 8100  
 o ++++++  
 3' agatgccccagactgcgagtcaccttgcttttgagtgcaattccctaaaaccagtaactcctaatagtttttcctagaagtgatctaggaaaatttaatt  
 o ++++++

