

Absent Sites	0	Aarl,AbsI,Ajul,Ajul',AlfI,AlfI',Alol,Alol',Ascl,AsiSI,AvrII,BaeI,BaeI',BamHI,BarI,BarI',BclI,BlpI,BmgBI,BsaBI,BsiWI,BspMI,BstBI,BstEII,BstXI,BstZ17I,FspAI,HpaI,MauBI,MreI,PmlI,PshAI,Psil,PspXI,Psrl,Psrl',RsrII,SbfI,SexAI,Sfil,SgrAI,Smal,SphI,SrfI,Stul,Swal,TstI,TstI',Tth111I,XcmI,XhoI,XmaI
Acc65I	1	5987 (8371)
AfeI	1	3195 (8371)
AgeI	1	3199 (8371)
AhdI	1	7452 (8371)
ApaI	1	2572 (8371)
BbeI	1	984 (8371)
BbvCI	1	1767 (8371)
BmtI	1	3194 (8371)
BsaXI	1	2191 (8371)
BsaXI'	1	2161 (8371)
BseYI	1	6863 (8371)
BsrGI	1	3921 (8371)
BssHII	1	1054 (8371)
Bsu36I	1	5983 (8371)
DrdI	1	6667 (8371)
EcoNI	1	1513 (8371)
EcoO109I	1	2277 (8371)
EcoRI	1	3947 (8371)
FseI	1	1491 (8371)
FspI	1	7674 (8371)
GsaI	1	6867 (8371)
KasI	1	980 (8371)
KpnI	1	5991 (8371)
MscI	1	4798 (8371)
NarI	1	981 (8371)
NheI	1	3190 (8371)
NotI	1	3932 (8371)
NsiI	1	2598 (8371)
PacI	1	5163 (8371)
PciI	1	5139 (8371)
PpuMI	1	2277 (8371)
PspOMI	1	2568 (8371)
SacII	1	5764 (8371)
SanDI	1	2277 (8371)
SapI	1	1443 (8371)
SfoI	1	982 (8371)
SgrDI	1	2 (8371)
SpeI	1	253 (8371)
XbaI	1	2576 (8371)

p201 (pPRIME-CMV-GFP-FF3)

SgrDI

5' gtcgacggatcgggagatctcccgatcccctatggtgcactctcagtacaatctgctctgatgccgcatagttaagccagtatctgctccctgcttgtgt  
 100  
 3' cagctgcctagccctctagagggctaggggataccacgtgagagtcaggttagacgagactacggcgtatcaattcgggtcatagacgagggacgaacaca  
 +

5' gttggaggtcgctgagtagtgcgcgagcaaaathtaagctacaacaaggcaaggcttgaccgacaattgcatgaagaatctgcttaggggttaggcgttt  
 200  
 3' caacctccagcgactcatcacgcgctcgttttaattcgatggttccgttccgaactggctgtaacgtacttcttagacgaatccaatccgcaaaa  
 +

Spel

5' gcgctgcttcgogatgtacgggccagatatacgcgcttgacattgattattgactagttattaatagtaatacaattacgggggtcattagttcatagcccat  
 300  
 3' cgcgacgaagcgctacatgcccggctctatatgcgcaactgtaactaataactgatcaataattatcattagttaatgcccagtaatacaagtatcgggta  
 +

5' atatggagttccgcttacataaacttacggtaaatggcccgcctggctgaccgcccaacgacccccgccattgacgtcaataatgacgtatgttcccat  
 400  
 3' tatacctcaaggcgcaatgtattgaatgccatttacggggcggaccgactggcgggttgctggggcgggtaactgcagttattactgcatacaagggt  
 +

5' agtaacgccaatagggactttccattgacgtcaatgggtggagatattacggtaaaactgcccaacttggcagtacatcaagtgtatcatatgccaaagtacg  
 500  
 3' tcatgcggttatccctgaaaggtaactgcagttaccacctcataaatgccattgacgggtgaaccgtcatgtagttcacatagatacggttcatgc  
 +

5' cccctattgacgtcaatgacggtaaatggcccgcctggcattatgccagtagacattatgggactttcctacttggcagtagacatctacgtattag  
 600  
 3' gggggataactgcagttactgcccattaccggggcggaccgtaatacgggtcatgtactggaataccctgaaaggatgaaccgtcatgtagatgcataatc  
 +

5' tcatcgctattaccatgggtgatgcgggttttggcagtagacatcaatgggcgtggatagcgggttgactcacggggatttccaagtctccacccattgacgt  
 700  
 3' agtagcgataatggtaccactacgcaaaaaccgtcatgtagttaccgcacctatcgccaaactgagtgcccctaaagggttcagaggtgggtaactgca  
 +

5' caatgggagttgttttggcaccaaaatcaacgggactttccaaaatgtcgtacaactccgccccattgacgcaaatggcggttaggcgtgtacgggtg  
 800  
 3' gttaccctcaaacaaaaccgtggttttagttgcctgaaagggttttacagcatggttgaggcgggtaactgcgtttaccggccatccgcacatgccacc  
 +

5' gaggtctatagaccagatctgagcctgggagctctctggctaactaggaaccactgcttaagcctcaataaagcttgcttgagtgctcaagtagtg  
 900  
 3' ctccagatatctggctagactcggaccctcgagagaccgattgatccctgggtgacgaattcggagttatttgaacggaactcacgaagttcatcac  
 +

LTR

KasI  
 NarI  
 SfoI  
 BbeI

5' tgtgccgctctgttgtgtgactctggttaactagagatccctcagacccttttagtcagtggtgaaaaatctctagcagtgggcggccgaacagggacttgaa  
 1000  
 3' acacgggcagacaacacactgagaccattgatctctagggagctctgggaaaaatcagtcacaccttttagagatcgtcaccgcgggcttgcctcctgaact  
 +

LTR

BssHII

5' agcgaagggaaccagaggagctctctcgacgcaggactcggcttgctgaagcgcgcacggcaagaggcgaggggcggcactggtgagtagcgcacaaa  
 1100  
 3' tcgctttcccttggctcctcagagagactgcgctcctgagccgaacgacttcgcgcggtgccgttctccgctccccgcccgtgaccactcatgcggtttt  
 +

LTR

p201 (pPRIME-CMV-GFP-FF3)

5' attttgactagcggaggctagaaggagagagatgggtgcgagagcgtcagtattaagcgggggagaattagatcgcgatgggaaaaattcgggtaaggc  
 o ++++++  
 3' taaaactgatcgcctccgatcttctctctctaccacgctctcgcagtcataattcgccccctcttaattctagcgtacccttttttaagccaattccg  
 o  
 o  
 o

LTR

5' caggggaaagaaaaatataataaacatatagtatgggcaagcaggagctagaacgattcgcagttaatcctggcctgttagaaacatcagaaggct  
 o ++++++  
 3' gtcccccttcttttttatattttgtatatacataccggttcgctcctcgatcttgtaagcgtcaattaggaccggacaatctttgtagtcttccga  
 o  
 o  
 o

LTR

5' gtagacaaatactgggacagctacaaccatcccttcagacaggatcagaagaacttagatcattatataatacagtagcaaccctctattgtgtgcatca  
 o ++++++  
 3' catctgtttatgacctgtcgatgttggtaggaagtctgtcctagtctcttgaatctagtaatatattatgtcatcgtgggagataacacacgtagt  
 o  
 o  
 o

LTR

5' aaggatagagataaaaagacaccaaggaagcttttagacaagatagaggaagagcaaaacaaaagtaagaccaccgcacagcaagcggccggcgcgctgat  
 o ++++++  
 3' ttctatctctatcttctgtggttccttcgaaatctgttctatctccttctcgtttcttctcattctggtggcgtgctcgttcgccggccggcgcgacta  
 o  
 o  
 o

SapI

FseI

LTR

5' cttcagacctggaggaggagatagaggacaattggagaagtgaattatataaataaaagtagtaaaaattgaaccattaggagtagcaccaccaag  
 o ++++++  
 3' gaagtctggacctcctcctctataactcctgtaacctctcacttaatatattatattcatcatttttaacttggtaatcctcatcgtgggtggttc  
 o  
 o  
 o

EcoNI

LTR

HIV RRE

5' gcaaagagaagagtggcagagagaaaaagagcagtggaataggagctttgttccttgggttcttgggagcagcaggaagcactatgggagcagcgt  
 o ++++++  
 3' cgtttctctctcaccacgtctctcttttctcgtcacccttatcctcgaacaaggaaccaagaaccctcgtcgtcctcgtgataaccgcgctcgca  
 o  
 o  
 o

HIV RRE

5' caatgacgctgacggtacaggccagacaattatgtctggtatagtcagcagcagaacaatttgctgagggctattgaggcgcaacagcatctgttgca  
 o ++++++  
 3' gttactgagactgccatgtccggtctgtaataacagaccatcacgctcgtcgtcttgtaaacgactcccgataactccgcgtgtcgttagacaacgt  
 o  
 o  
 o

BbvCI

HIV RRE

5' actcacagtctggggcatcaagcagctccaggcaagaatcctggctgtgaaagatacctaaaggatcaacagctcctggggatttggggtgctctgga  
 o ++++++  
 3' tgagtgtcagacccttagtctcgtcaggtccgttctttaggaccgacaccttctatggatttctagttgtcagggaccctaaacccaacgagacct  
 o  
 o  
 o

HIV RRE

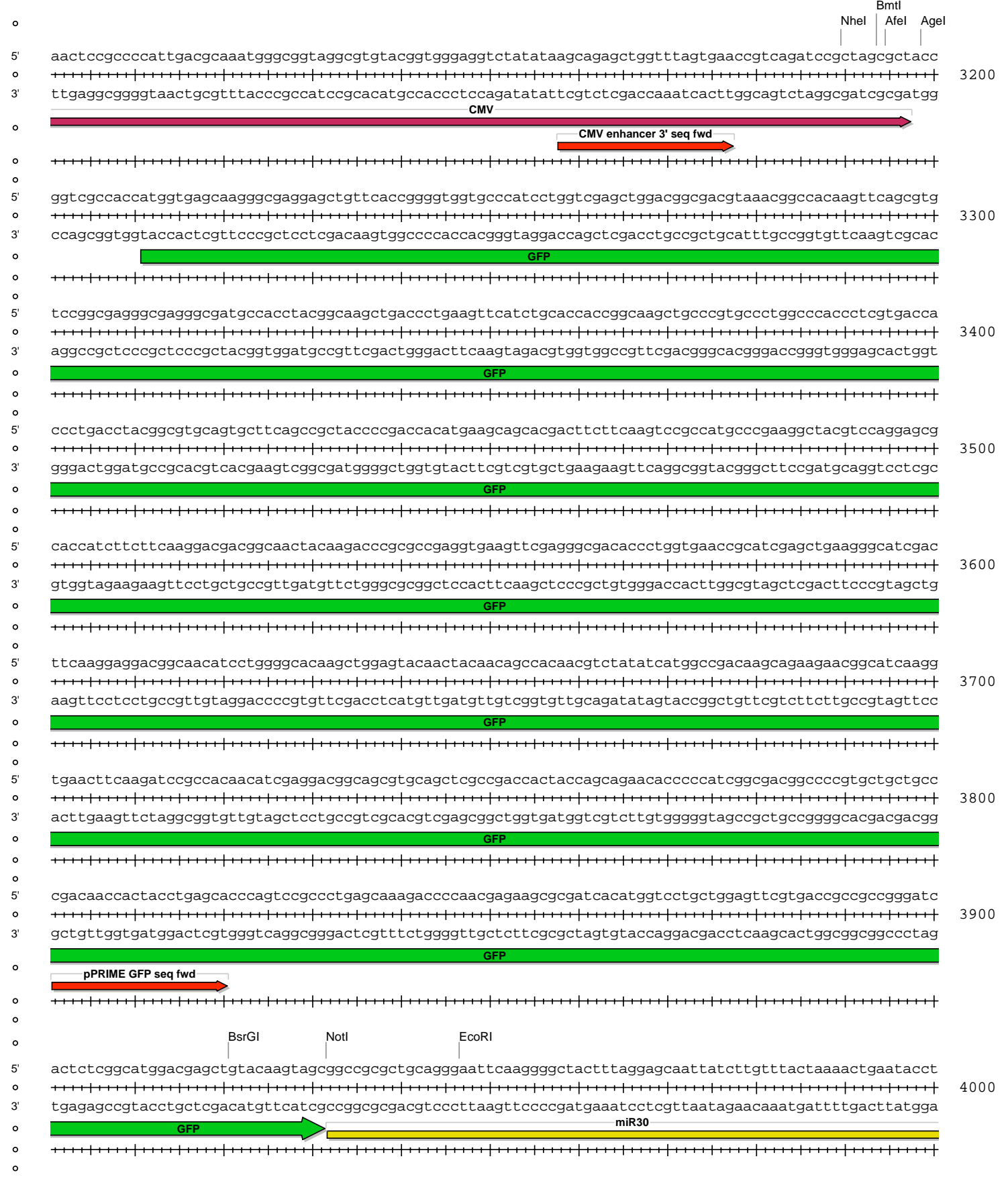
5' aaactcatttgcaccactgctgtgccttggaaatgctagttggagtaataatctctggaacagatttggaaatcacacgacctggatggagtgggacagag  
 o ++++++  
 3' tttgagtaaacggtgacgacacggaaccttacgatcaacctcattatttagagaccttctctaaaccttagtgtgctggacctacctcacctgtctc  
 o  
 o  
 o

HIV RRE

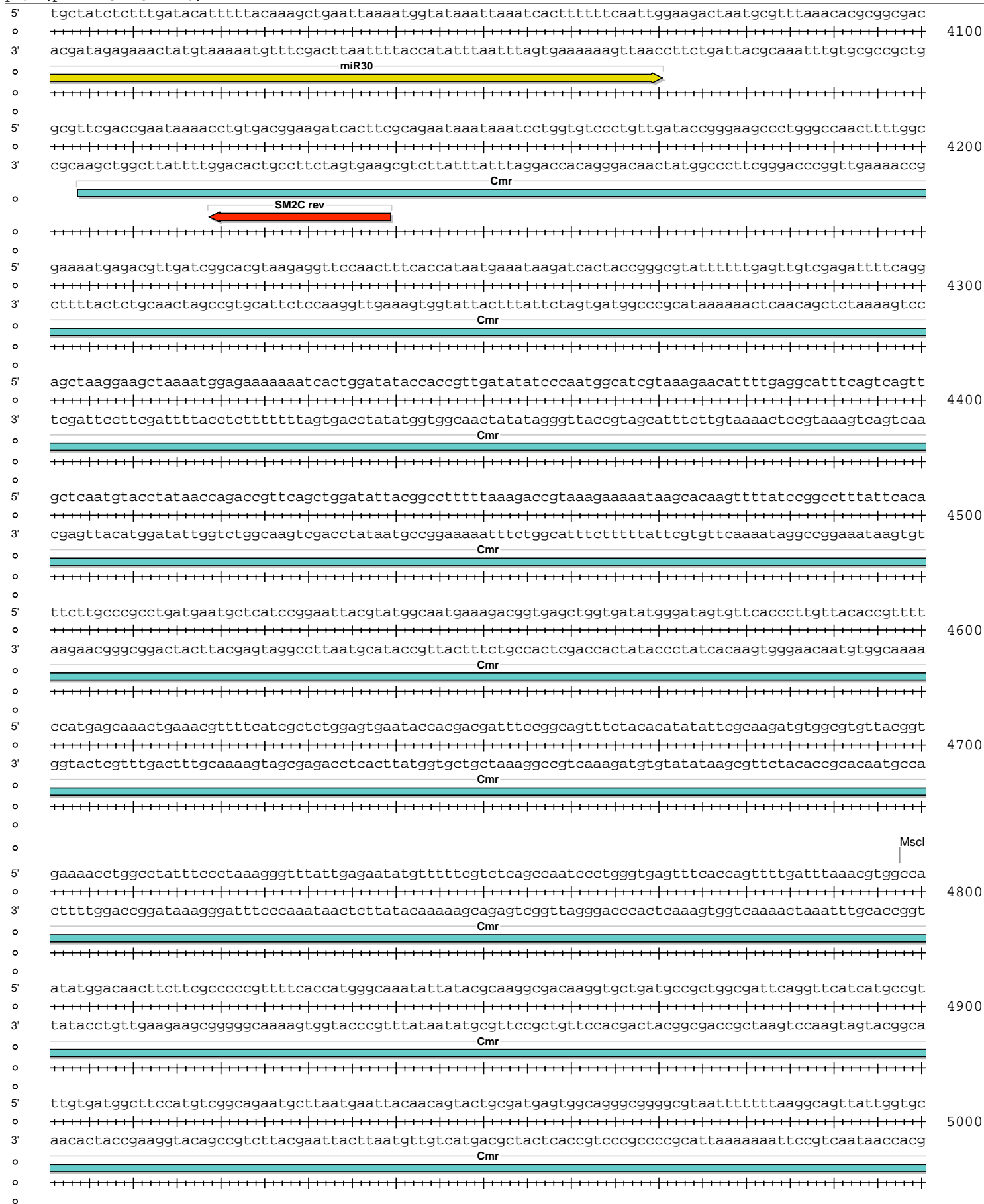
5' aaattaacaattacacaagcttaatacactccttaattgaagaatcgaaaaccagcaagaaagaatgaacaagaattattggaattagataaatgggc  
 o ++++++  
 3' ttaattgttaatgtgttcgaattatgtgaggaattaacttcttagcgttttggtcgttcttcttacttgttcttaataaccttaacttatttaccg  
 o  
 o  
 o

HIV RRE





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