

Absent Sites	0	Aarl,AbsI,Ajul,Ajul',AlfI,AlfI',Ascl,AsiSI,AvrII,Bael,Bael',BamHI,BarI,BarI',BclI,BmgBI,BsiWI,BspMI,BstBI,BstEII,BstXI,BstZ17I,FspAI,HpaI,MauBI,MreI,PmlI,PshAI,PsrI,PsrI',RsrII,SbfI,SgrAI,Smal,SphI,SrfI,Swal,TstI,TstI',Tth111I,XcmI,XmaI
Acc65I	1	6447
AfeI	1	3195
AgeI	1	3199
AhdI	1	7912
Alol	1	4332
Alol'	1	4300
ApaI	1	2572
BbeI	1	984
BlnI	1	4366
BmtI	1	3194
BsaBI	1	4109
BsrGI	1	3921
BssHII	1	1054
Bsu36I	1	6443
DrdI	1	7127
EcoNI	1	1513
FseI	1	1491
FspI	1	8134
KasI	1	980
KpnI	1	6451
MscI	1	5258
NarI	1	981
NheI	1	3190
NotI	1	3932
NsiI	1	2598
PacI	1	5623
PciI	1	5599
PsiI	1	3965
PspOMI	1	2568
PspXI	1	4390
PstI	1	2380
SacII	1	6224
SanDI	1	2277
SexAI	1	3989
SfiI	1	3940
SfoI	1	982
SgrDI	1	2
SpeI	1	253
StuI	1	4061
XbaI	1	2576
XhoI	1	4390

p201 (pPRIME-CMV-GFP-FF3)

SgrDI

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 100
 3' cagctgcctagccctctagagggctaggggataccacgtgagagtcagttagacgagactacggcgtatcaattcgggtcatagacgagggacgaacaca
 +

5' gttggaggtcgctgagtagtgcgcgagcaaaathtaagctacaacaaggcaaggcttgaccgacaattgcatgaagaatctgcttaggggttaggcgttt
 200
 3' caacctccagcgactcatcacgcgctcgttttaaatcagatggttccgttccgaactggctgtaacgtacttcttagacgaatccaatccgcaaaa
 +

Spel

5' gcgctgcttcgogatgtacgggcccagatatacgcgcttgacattgattattgactagttattaatagtaatacaattacgggggtcattagttcatagcccat
 300
 3' cgcgacgaagcgctacatgcccggctctatatgcgcaactgtaactaataactgatcaataattatcattagttaatgcccagtaatacaagatcgggta
 +

5' atatggagttccgcttacataaacttacggtaaatggcccgcctggctgaccgcccacgacccccgccattgacgtcaataatgacgtatgtcccat
 400
 3' tatacctcaaggcgcaatgtattgaatgccatttacggggcggaccgactggcgggtgctggggcgggtaactgcagttattactgcatacaagggt
 +

5' agtaacgccaatagggactttccattgacgtcaatgggtggagatattacggtaaaactgcccaactggcagtcacatcaagtgtatcatatgccaaagtacg
 500
 3' tcatgcggttatccctgaaaggtaactgcagttaccacactcataaatgccattgacgggtgaaccgtcatgtagttcacatagatacggttcatgc
 +

5' cccctattgacgtcaatgacggtaaatggcccgcctggcattatgccagtcacatgacctatgggactttcctacttggcagtcacatctacgtattag
 600
 3' gggggataactgcagttactgccatttacggggcggaccgtaatacgggtcatgtactggaataccctgaaaggatgaaccgtcatgtagatgcataatc
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 900
 3' ctccagatatctggctagactcggaccctcgagagaccgattgatccctgggtgacgaattcggagttatttgaacggaactcacgaagttcatcac
 +

LTR

KasI
 NarI
 SfoI
 BbeI

5' tgtgccgctctgttgtgtgactctggtaaactagagatccctcagacccttttagtcagtggtgaaaaatctctagcagtgggcggccgaacagggacttgaa
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 3' acacgggcagacaacacactgagaccattgatctctagggagctctgggaaaaatcagtcacaccttttagagatcgtcaccgcgggcttgcctcctgaactt
 +

LTR

BssHII

5' agcgaagggaaccagaggagctctctcgacgcaggactcggcttgcctgaagcgcgcacggcaagaggcgaggggcggcactggtgagtagcgcacaaa
 1100
 3' tcgctttcccttggctcctcagagagactgcgctcctgagccgaacgacttcgcgcgctgcccgttctccgctccccgcccgtgaccactcatgcggtttt
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LTR

p201 (pPRIME-CMV-GFP-FF3)

5' attttgactagcggaggctagaaggagagagatgggtgcgagagcgtcagtattaagcgggggagaattagatcgcgatgggaaaaattcgggtaaggc
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 LTR

5' caggggaaagaaaaatataataaacatatagtagggcaagcaggagctagaacgattcgcagttaatcctggcctgttagaaacatcagaaggct
 1300
 3' gtcccccttcttttttatattttgtatatcataccggttcgctcctcgatcttgtaagcgtcaattaggaccggacaatctttagtagtctccga
 LTR

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 1400
 3' catctgtttatgacctgtcgatggttaggaagtctgtcctagctctcttgaatctagtaatatattatgtcatcgtgggagataacacacgtagt
 LTR

5' aaggatagagataaaagacaccaaggaagcttttagacaagatagaggaagagcaaaacaaaagtaagaccaccgcacagcaagcggccggccgctgat
 1500
 3' ttctatctctatcttctgtggttctctcgaatctgttctatctccttctcgcttctgctttcattctggtggcgtgctgctcgcggccggccgacta
 LTR
 Fsel

5' cttcagacctggaggaggagatgagggacaattggagaagtgaattatataataaaagtagtaaaaattgaaccattaggagtagcaccaccaag
 1600
 3' gaagtctggacctcctcctctataactcctgtaacctctcacttaatatattatattcatcatttttaacttggtaatcctcatcgtgggtggttc
 LTR
 HIV RRE
 EcoNI

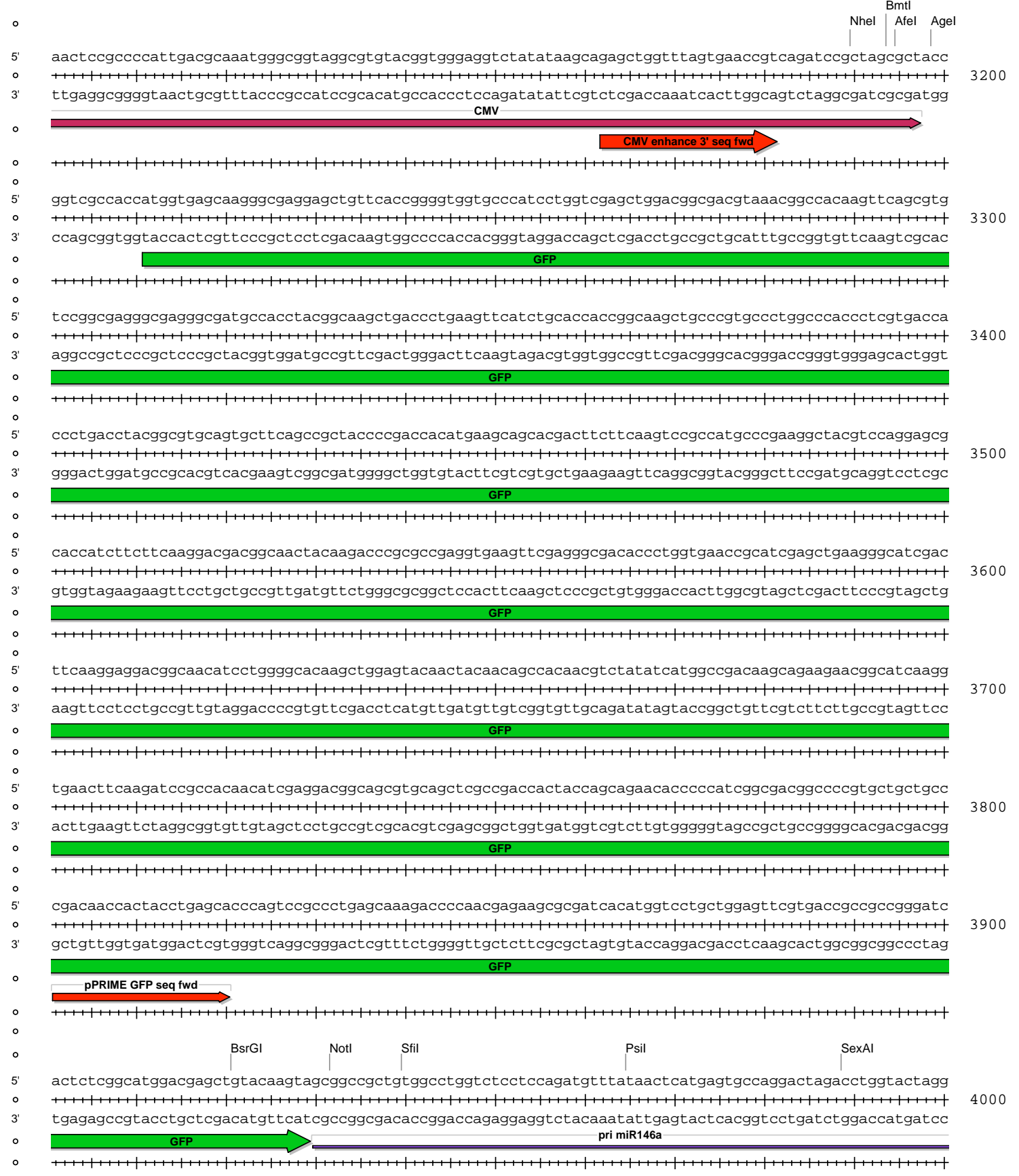
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 1700
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 HIV RRE

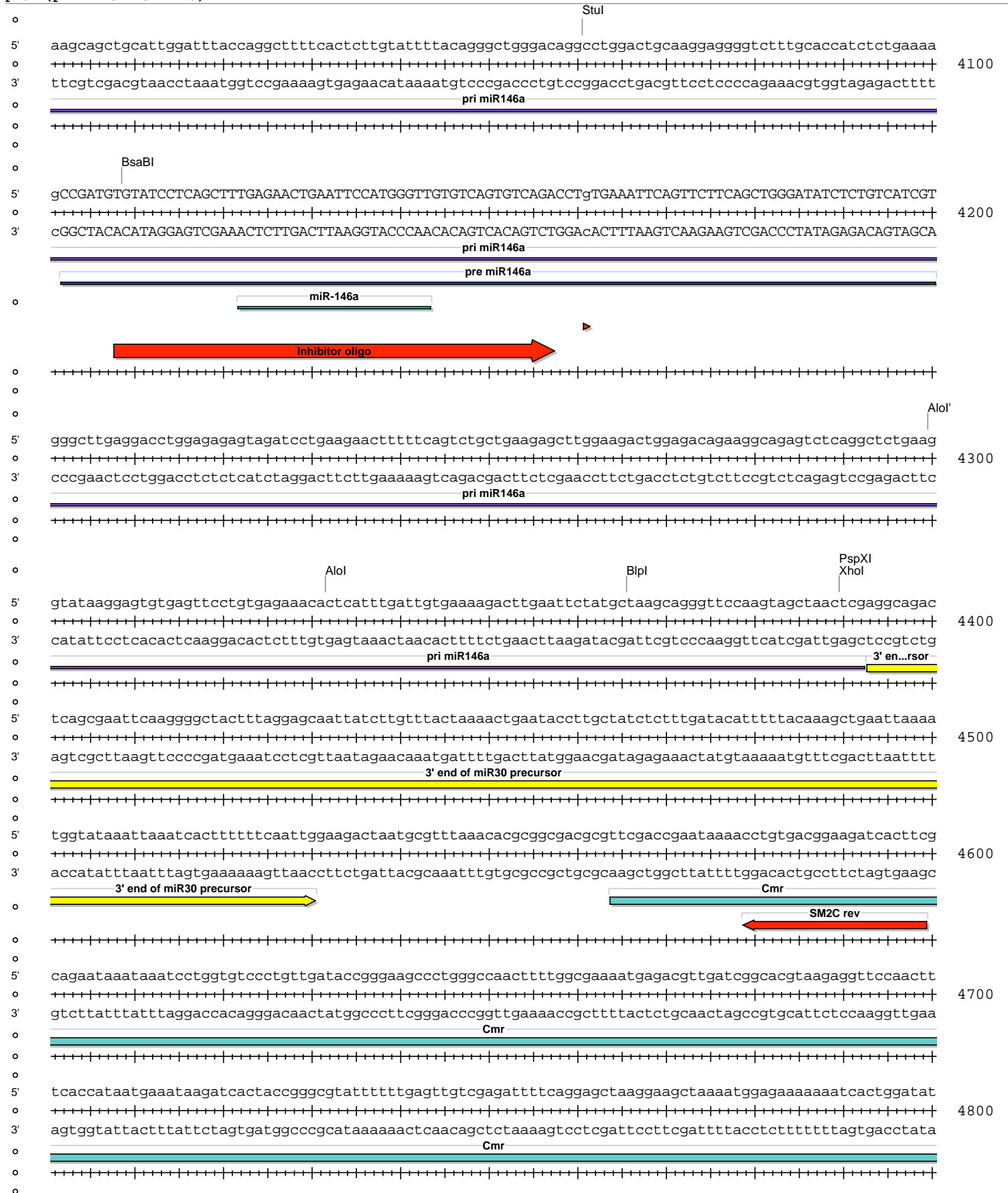
5' caatgacgctgacggtacaggccagacaattatgtctggtatagtgacagcagacaatttgctgagggctattgaggcgcaacagcatctgttgca
 1800
 3' gttactgagactgccatgtccggtctgtaataacagaccatatcacgctcgtcgtcttggtaaacgactcccgataactccgctgtgctgtagacaacgt
 HIV RRE

5' actcacagtctggggcatcaagcagctccaggcaagaatcctggctgtgaaagatacctaaaggatcaacagctcctggggatttggggtgctctgga
 1900
 3' tgagtgtcagaccccgtagttcgtcgaggtccgttcttaggaccgacacctttctatggatttctagtgctgagggaccctaaaccccaacgagacct
 HIV RRE

5' aaactcatttgaccactgctgtgccttggaaatgctagtggagtaataatctctggaacagatttggaaatcacacgacctggatggagtgggacagag
 2000
 3' tttagtaaacggtgacgacacggaaccttacgatcaacctcattatttagagaccttgctctaaaccttagtgctgctggacctacctcacctgtctc
 HIV RRE

5' aaattaacaattacacaagcttaatacactccttaattgaagaatcgcaaacacgcaagaaagaatgaacaagaattattggaattagataaatgggc
 2100
 3' ttaattgttaatgtgttcgaattatgtgaggaattaacttcttagcgttttggctcttcttcttacttgttcttaataaccttaacttattaccgg
 HIV RRE





p201 (pPRIME-CMV-GFP-FF3)

5' accaccggttgatataatcccaatggcatcgtaaagaacattttgaggcatttcagtcagttgctcaatgtacctataaccagaccgttcagctggatatta
 o ++++++
 3' tgggtggcaactatataagggttaccgtagcattttctgtaaaactccgtaaagtcagtcacagagttacatggatattggtctggcaagtgcacctataat
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 o ++++++
 3' gccggaaaaatcttggcatttctttttattcgtgttcaaaataggccggaaataagtgtagaacggggcgactacttacgagtaggccttaatgcata
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 5' ggcaatgaaagaccggtgagctggtgatatgggatagtggtcacccttgttacaccgttttccatgagcaaaactgaaacgttttcatcgctctggagtga
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 3' ccgttactttctgccactcgaccactataccctatcacaagtgggaacaatgtggcaaaaggtactcgtttgactttgcaaaagtagcgagacctcact
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 o ++++++
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 5' cgatatcaagcttatcgataatcaacctctggattacaaaatttgtaaagattgactgggtattcttaactatgttgctccttttacgctatgtggatac
 o ++++++
 3' gctatagttcgaatagctattagttggagacctaatgttttaaacactttctaactgaccataagaattgatacaacgagggaaaaatgcatcacctatg
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Cmr

Cmr

Cmr

Cmr

MscI

Cmr

Cmr

Cmr

Cmr

PciI

Cmr

Pacl

WRE

p201 (pPRIME-CMV-GFP-FF3)

5' catcacatggccccgagagctgcatccggactgtactgggtctctctgggttagaccagatctgagcctgggagctctctggctaactaggaacccactgc
 o ++++++
 3' gtagtgtaccgggctctcgacgtaggcctgacatgaccagagagaccaatctggtctagactcggaccctcgagagaccgattgatcccttgggtgacg
 o
 o
 o LTR
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 o ++++++
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 o ++++++
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 o
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DrdI

AhdI

