

Absent Sites	0	AarI,Abst,AlfI,AlfI',Ascl,AvrII,BaeI,BaeI',BamHI,BarI,BarI',BmgBI,BsaBI,BsiWI,BstBI,BstZ17I,FspAI,HpaI,MauBI,MreI,NotI,PmlI,Psil,Psrl,Psrl',SbfI,SexAI,SfiI,SgrAI,SrfI,Swal
AfeI	1	3195
AgeI	1	3199
AhdI	1	9368
AjuI	1	3934
AjuI'	1	3902
Alol	1	5768
Alol'	1	5736
AsiSI	1	3585
BbvCI	1	1767
BclI	1	4521
BlpI	1	4590
BmtI	1	3194
BssHII	1	1054
BstEII	1	4915
EcoNI	1	1513
FseI	1	1491
FspI	1	9590
NheI	1	3190
NsiI	1	2598
PacI	1	7079
PfoI	1	7450
PshAI	1	3248
PspXI	1	4701
RsrII	1	3629
SapI	1	1443
SgrDI	1	2
SmaI	1	4342
SpeI	1	253
SphI	1	4688
StuI	1	5216
TstI	1	5417
TstI'	1	5449
XbaI	1	2576
XcmI	1	5736
XhoI	1	4701
XmaI	1	4340

p201 (pPRIME-CMV-GFP-FF3)

5' attttgactagcggaggctagaaggagagagatgggtgagagcgtcagtattaagcgggggagaattagatcgcgatgggaaaaaattcgggtaaggc
 1200
 3' taaaactgatcgctccgatcttctctctctacccacgctctcgcagtcataatcgccccctcttaatctagcgetacccttttttaagccaattccg
 LTR

5' cagggggaagaaaaataaataaacatatagtatgggcaagcaggagctagaacgatcgcagttaatcctggcctgttagaaacatcagaaggct
 1300
 3' gtccccctttctttttatattttgtatatacataccggtcgtccctcgatcttgtaagcgtcaattaggaccggacaacatttgtagctctccga
 LTR

5' gtgacaaactactgggacagctacaaccatcccttcagacaggatcagaagaacttagatcattatataatacagtagcaaccctctattgtgtgcatca
 1400
 3' catctgtttatgaccctgtcgatgttgtagggaagtctgtcctagctctcttgaatctagtaataatattatgtcatcggtgggagataaacacacgtagt
 LTR

5' aaggatagagataaaagacaccaaggaagcttttagacaagatagagggaagagcaaaacaaaagtaagaccaccgcacagcaagcggccggcgcgctgat
 1500
 3' ttctctatctctatcttctgtggttccttcgaaatctgttctatctccttctcgttttgttttcattctggtggcgtgctcgttcgcggccggcgcgacta
 LTR

5' cttcagacctggaggaggagatatgagggacaattggagaagtgaattatataaatataaagtagtaaaaattgaaccattaggagtagcaccaccaag
 1600
 3' gaagtctggacctcctcctctatactccctgttaacctcttcaacttaatatattatattcatcattttaacttggtaatcctcatcgtgggtggttc
 LTR HIV RRE

5' gcaaagagaagagtgggtgcagagagaaaaagagcagtgggaataggagctttgttccttgggttcttgggagcagcaggaagcactatgggagcagcgt
 1700
 3' cgtttctcttctcaccacgtctctctttttctcgtcacccttatcctcgaaacaaggaaccaagaacctcgtcgtcctcgtgataccgcgtcgca
 HIV RRE

5' caatgacgctgacggtagcagccagacaattattgtctggatagtgacagcagacaatttgctgagggtattgaggcgaacagcatctgttgca
 1800
 3' gttactgcgactgcatgctcgggtctgtaataacagaccatatacagctcgtcgtcttggtaaacgactcccgataactccgctgtgctgtagacaacgt
 HIV RRE

5' actcacagtctggggcatcaagcagctccaggcaagaatcctggctgtgaaagatacctaaggatcaacagctcctggggatttggggtgctctgga
 1900
 3' tgagtgtcagaccctcgttagtctcgggtcgtgtaataacagaccatatacagctcgtcgtcttggtaaacgactcccgataactccgctgtgctgtagacaacgt
 HIV RRE

5' aaactcatttgcaccactgctgtgccttggaaatgctagttggagtaataaatctctggaacagatttggaaatcacacgacctggatggagtgggacagag
 2000
 3' tttgagtaaacgtggtgacgacacggaaccttacgatcaacctcattattagagacctgtctaaaccttagtgtgctggacctacctcacctgtctc
 HIV RRE

5' aaattaacaattacacaagcttaatacactccttaattgaagaatcgcaaaaccagcaagaaaagaatgaacaagaattattggaattagataaatgggc
 2100
 3' ttttaattgtaattggttcgaattatgtgaggaatgaacttcttagcgttttggcgttctttcttactgttcttaataaccttaatttaccgg
 HIV RRE

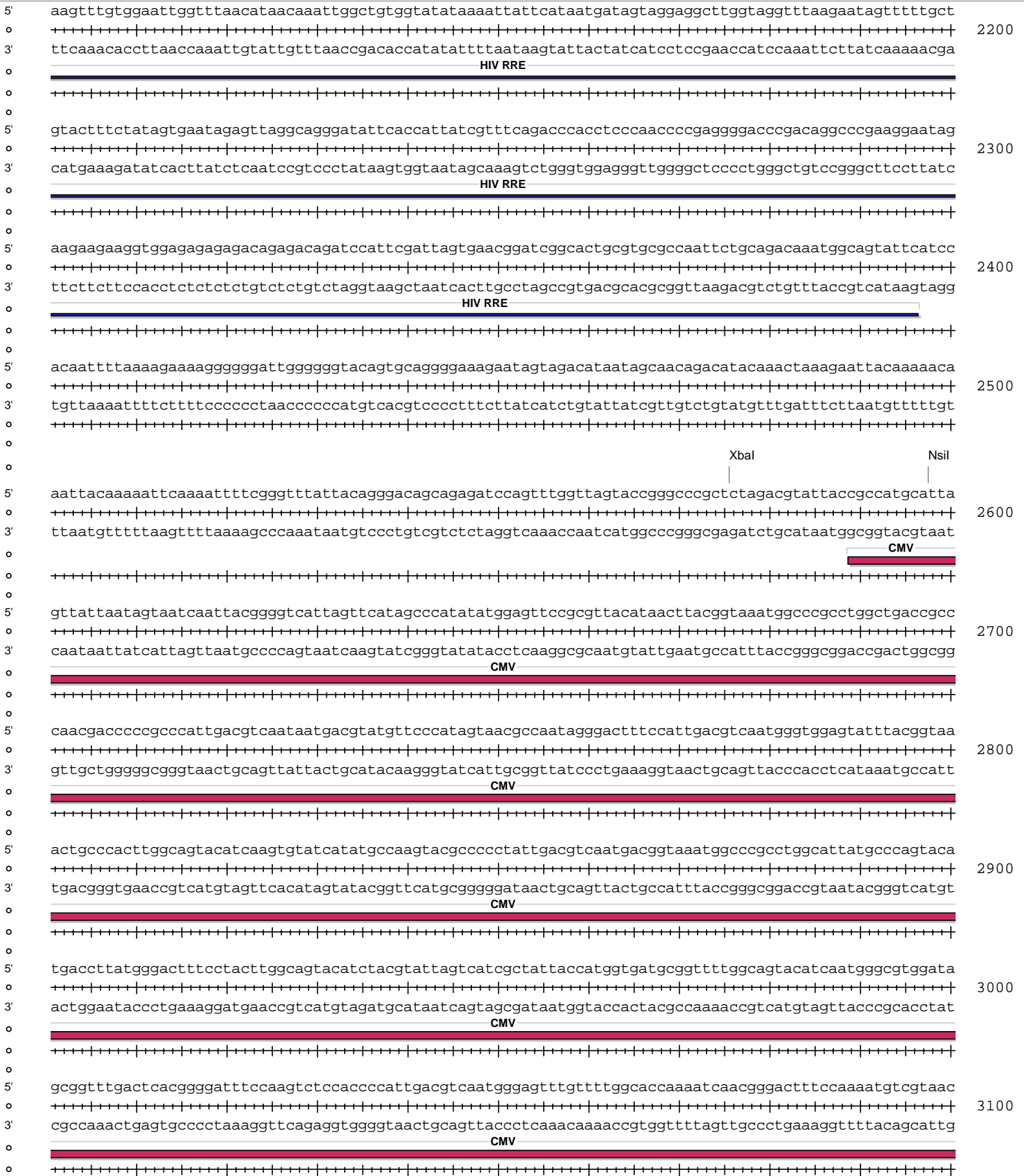
SapI

FseI

EcoNI

BbvCI

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5' ttggcctttgCGGTGCCAATttccGGTGGTttccctttccGCCCGTttatccaatagcatgtaagagaggTttcctagattggcaactttgagggAAC
 3' aaccggaacGCCacGGTtaaaggccaccaagggaaaaggCGGcaaataggttatcgtacattctctccaaaggatctaaccggtgaaactcccttg
 BART cluster 2B

BstEII

5' gttccgctagctggtgacctaaagaccgcccatcaccaccggacagattctgaaactgtcctgtggtgttgggtgtggtttggggTACGCAGGAGTAC
 3' caaggcgcatcgaccactggattctgggCGGTtagtggtggcctgtctaagacttgaacaggacaccacaaccacacaaaaccccatgCGTcctcatg
 miR-BART12
 BART cluster 2B

5' gttggaatgctttggagccgagaggatgggcccgttGTGCGcttatgtgttacacggtGCCAATAaccggcccGGTgCGGctgcccGTGaccCGTgg
 3' caaccttacgaaacctCGGctctccctaccgggCGAACacCGGAATACACAatgtGCCacGGTtatTGGccGGGccacGCCgacGGGcactgggCACC
 BART cluster 2B

5' gccttaccttccctggccatcgggggaccctggtgctagggtcccttGTGTTgctttctgccatagggggaaagcatcgccttcagaattggctgctccg
 3' cggaatggaaggaccGGtagccccctgggaccacgatcccagggAACACAacGAAAGacGGTatcccccttctgtagcggaaGctctaaaccgacgaggc
 BART cluster 2B

StuI

5' ttggaacatttgaggcctactgtatccgtgtcctgacaacattccccGCAACATgacatgggttaatttaaacatgttttGTTgcttgggaatgctct
 3' aaccttgtaaacctCGGatgacataggcacaggactgttgtaagggCGTtTGTactgtaccaatTAAATTGTACAAAACAACGAAcccttacgaga
 BART cluster 2B

5' tagggcctggaagcttgtcattggattcatcgTtccctgaaactacaggCGtagggcctattgttagcaggcatgtcttcattcctgCGTaccgaatggcat
 3' atcccggaccttcgaacagtaacctaaGTAGCAAaggacttgatgtccgcatccggataacatcgtccgtacagaagtaaggacgcatggcttaccgta
 BART cluster 2B

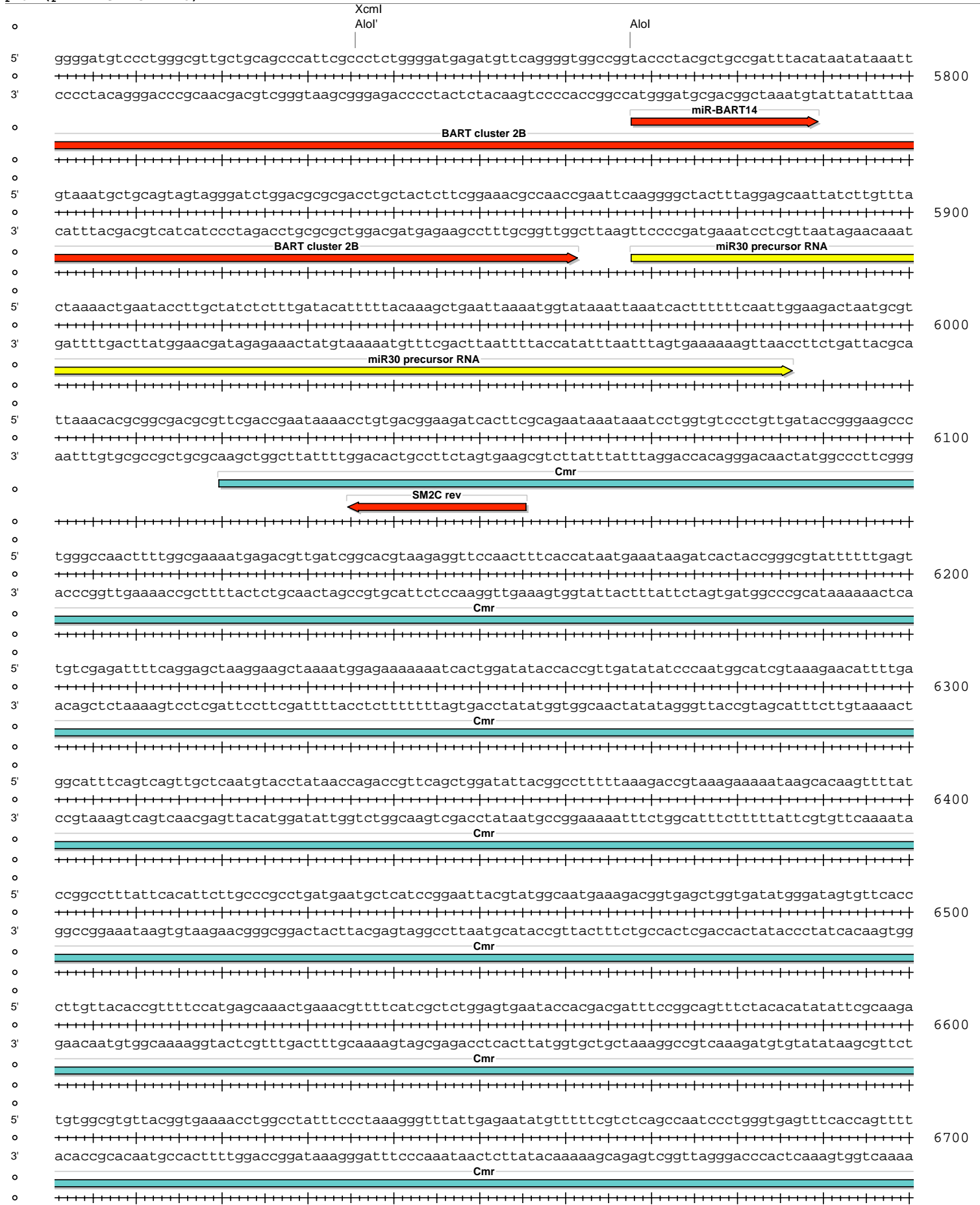
TstI

TstI'

5' gaaggcacagcctgttaccattggcacctttttccatgTAAACCTCCGTgacctcgtgggtcctttgggactcaagtgtgaatttGTTTGGTgttcggc
 3' ctccggtgCGGacaatGGTaaCCGTGAAAAAGGTacatttggaggcactaggaccaggaacctctgagttcacactTAAACAAAACCACAAGCCG
 BART cluster 2B

5' gccaggcatctcgacgttggaatgtcaactcaacttgggcacctcgataaccggctcgtggctcgtacagacgatgtttggctctgtaacttgccagg
 3' cggTCCGTAGAGctgcaaccttacagttgagttgaaccctggagctatTGGCCGAGcaccgagcatgtctgctaacaaaccgagacatTGAACGGTCC
 miR-BART13
 BART cluster 2B

5' gacggctgacgatgtgttagtctgccacttgcacccggcgttgggtactcgggagactaatgggggtgtggatggcacaggctgggggtgagTct
 3' ctgcccactgctacacaaatcagacggtgaacgtaggccgcgaaaccaatgagccctctgattacccccacaccataccgtgtccgacccccactcaga
 miR-BART13
 BART cluster 2B



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