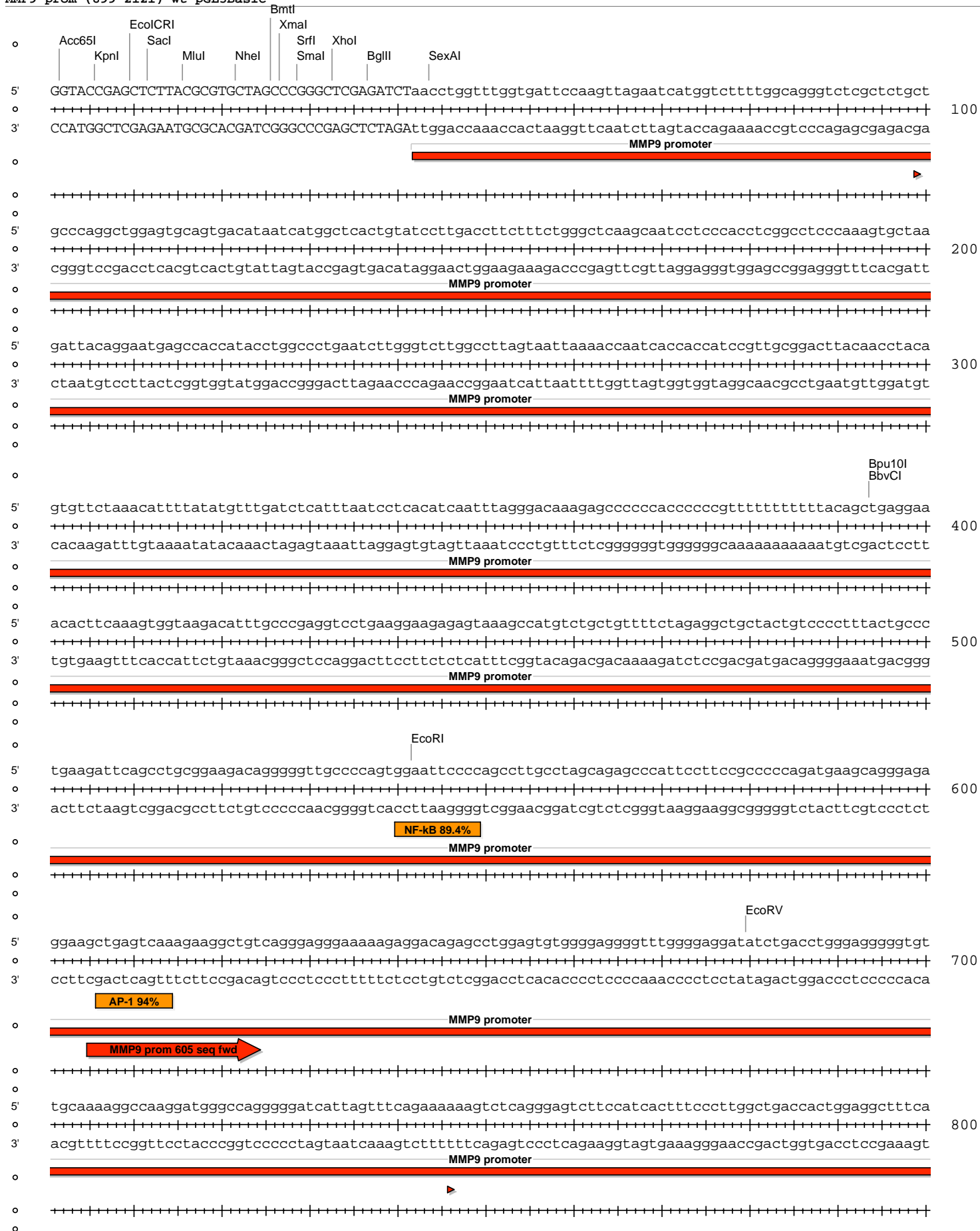


Absent Sites	0	AatII, AbsI, AfIII, AgeI, AjuI, AjuI', AlfI, AlfI', ApaI, ArsI, ArsI', AscI, AsiSI, AvrII, BaeI, BaeI', BarI, BarI', BplI, BmgBI, BsiWI, BsmBI, BssHII, BstAPI, BstEII, BstXI, BstZ17I, CspCI, CspCI', Fall, Fall', FspAI, MauBI, MreI, MscI, NdeI, NruI, NsiI, PacI, Pasi, PmeI, PmlI, PspOMI, PspXI, PsrI, PsrI', RsrII, SacII, SanDI, SbfI, SfiI, SgrDI, SnaBI, SpeI, StuI, SwaI, Tth111I, ZraI
Acc65I	1	2 (6030)
Accl	1	3224 (6030)
Afel	1	3349 (6030)
AhdI	1	4366 (6030)
AleI	1	1245 (6030)
Alol	1	5586 (6030)
Alol'	1	5554 (6030)
AseI	1	4538 (6030)
BbeI	1	1337 (6030)
BbvCI	1	394 (6030)
BclI	1	1881 (6030)
BglIII	1	37 (6030)
BmtI	1	26 (6030)
Bpu10I	1	394 (6030)
BsaAI	1	5515 (6030)
BsaBI	1	3216 (6030)
BsrGI	1	1791 (6030)
BstBI	1	1470 (6030)
Bsu36I	1	897 (6030)
BtgZI	1	5510 (6030)
DraIII	1	5518 (6030)
EcoICRI	1	10 (6030)
EcoRI	1	542 (6030)
EcoRV	1	680 (6030)
FseI	1	2974 (6030)
HindIII	1	1266 (6030)
HpaI	1	3115 (6030)
KasI	1	1333 (6030)
KpnI	1	6 (6030)
MluI	1	16 (6030)
NarI	1	1334 (6030)
NcoI	1	1299 (6030)
NheI	1	22 (6030)
NotI	1	5864 (6030)
PciI	1	3473 (6030)
PfIMI	1	810 (6030)
PfoI	1	1408 (6030)
PshAI	1	3288 (6030)
SacI	1	12 (6030)
SalI	1	3223 (6030)
SexAI	1	44 (6030)
SfoI	1	1335 (6030)
SgrAI	1	2729 (6030)
SmaI	1	29 (6030)
SphI	1	1964 (6030)
SrfI	1	29 (6030)
TstI	1	2864 (6030)
TstI'	1	2832 (6030)
XcmI	1	2036 (6030)
XhoI	1	33 (6030)
XmaI	1	27 (6030)





o  
5' AAAAAATTTTGAACGTGCAAAAAAGCTCCCAATCATCCAAAAATTATTATCATGGATTCTAAAACGGATTACCAGGGATTTAGTTCGATGTACACGTTC  
o ++++++  
3' TTTTAAAACCTGCACGTTTTTTTCGAGGGTTAGTAGGTTTTTTAATAATAGTACCTAAGATTTTGCCTAATGGTCCCTAAAGTCAGCTACATGTGCAAG  
o ++++++ 1800  
o  
o  
5' GTCACATCTCATCTACCTCCCGGTTTTAATGAATACGATTTTGTGCCAGAGTCCCTCGATAGGGACAAGACAATTGCACTGATCATGAACTCCTCTGGAT  
o ++++++ 1900  
3' CAGTGTAGAGTAGATGGAGGGCCAAAATTAATTATGCTAAAACACGGTCTCAGGAAGCTATCCCTGTTCTGTTAACGTGACTAGTACTTGAGGAGACCTA  
o ++++++  
o  
o  
5' CTACTGGTCTGCCTAAAGGTGTCGCTCTGCCTCATAGAACTGCCTGCGTGAGATTCTCGCATGCCAGAGATCCTATTTTTGGCAATCAAATCATTCCGGA  
o ++++++ 2000  
3' GATGACCAGACGGATTTCCACAGCGAGACGGAGTATCTTGACGGACGCACTCTAAGAGCGTACGGTCTCTAGGATAAAAACCGTTAGTTTAGTAAGGCCT  
o ++++++  
o  
o  
5' TACTGCGATTTAAGTGTGTCCATTCCATCACGGTTTTTGGAAATGTTTACTACACTCGGATATTTGATATGTGGATTTTCGAGTCGTCTTAATGTATAGA  
o ++++++ 2100  
3' ATGACGCTAAAATTCACAACAAGGTAAGGTAGTGCCAAAACCTTACAAATGATGTGAGCCTATAAATATACACCTAAAGCTCAGCAGAATTACATATCT  
o ++++++  
o  
o  
5' TTTGAAGAAGAGCTGTTTCTGAGGAGCCTTCAGGATTACAAGATTCAAAGTGCCTGCTGGTGCCAACCCCTATTCTCCTTCTTCGCCAAAAGCACTCTGA  
o ++++++ 2200  
3' AAATCTCTTCGACAAAAGACTCCTCGGAAGTCTAATGTCTAAGTTTACACGACGACCACGGTTGGGATAAGAGGAAGAAGCGGTTTTCGTGAGACT  
o ++++++  
o  
o  
5' TTGACAAATACGATTTATCTAATTTACACGAAATGCTTCTGGTGGCGCTCCCTCTCTAAGGAAGTCGGGGAAGCGGTTGCCAAGAGGTTCCATCTGCC  
o ++++++ 2300  
3' AACTGTTTTATGCTAAATAGATTAAATGTGCTTTAACGAAGACCACCGCGAGGGGAGAGATTCCTTCAGCCCCCTTCGCCAACGGTTCTCCAAGGTAGACGG  
o ++++++  
o  
o  
5' AGGTATCAGGCAAGGATATGGGCTCACTGAGACTACATCAGCTATTCTGATTACACCCGAGGGGGATGATAAACCGGGCGCGGTTCGGTAAAGTTGTTCCA  
o ++++++ 2400  
3' TCCATAGTCCGTTCTTATACCCGAGTACTCTGATGTAGTCGATAAGACTAATGTGGCTCCCTACTATTTGGCCCGGCCAGCCATTTCAACAAGGT  
o ++++++  
o  
o  
5' TTTTTGAAGCGAAGGTTGTGGATCTGGATACCGGAAAACGCTGGGCGTTAATCAAAGAGGCGAACTGTGTGTGAGAGGTCCTATGATTATGTCGGTT  
o ++++++ 2500  
3' AAAAAACTTCGCTTCCAACACCTAGACCTATGGCCCTTTTGCACCCGCAATTAGTTTCTCCGCTTGACACACACTCTCCAGGATACTAATACAGGCCAA  
o ++++++  
o  
o  
5' ATGTAAACAATCCGGAAGCGACCAACGCCTTGATTGACAAGGATGGATGGCTACATTCTGGAGACATAGCTTACTGGGACGAAGACGAACACTTCTTCAT  
o ++++++ 2600  
3' TACATTTGTTAGGCCCTTCGCTGGTTGCGGAACACTGTTCTTCTACCTACCGATGTAAAGACCTCTGTATCGAATGACCCTGCTTCTGCTTGTGAAGAAGTA  
o ++++++  
o  
o  
5' CGTTGACCGCCTGAAGTCTCTGATTAAGTACAAAGGCTATCAGGTGGCTCCCGCTGAATTGGAATCCATCTTGCTCCAACACCCCAACATCTTCGACGCA  
o ++++++ 2700  
3' GCAACTGGCGGACTTCAGAGACTAATTCATGTTTCCGATAGTCCACCGAGGGCGACTTAACCTTAGGTAGAACGAGGTTGTGGGTTGTAGAAGCTGCGT  
o ++++++  
o  
o  
5' GGTGTCGAGGCTTCCCGACGATGACCGCGTGAACCTCCCGCCCGGTTGTTGTTTTGGAGCACGAAAGACGATGACGGAAAAAGAGATCGTGGATT  
o ++++++ 2800  
3' CCACAGCGTCCAGAAGGGCTGCTACTGCGGCCACTTGAAGGGCGGCGCAACAACAAAACCTCGTGCCTTCTGCTACTGCCTTTTTTCTCTAGCACCTAA  
o ++++++  
o  
o

o

5' ACGTCGCCAGTCAAGTAACAACCGCGAAAAAGTTGCGCGGAGGAGTTGTGTTTGTGGACGAAGTACCAGAAAGTCTTACCGGAAAACCTCGACGCAAGAAA 2900  
o  
3' TGCAGCGGTGAGTTCATTGTTGGCGCTTTTCAACGCGCTCCTCAACACAAAACCTGCTTCATGGCTTCCAGAATGGCCTTTTGAGCTGCGTTCCTT  
o  
o

5' AATCAGAGAGATCCTCATAAAGGCCAAGAAGGGCGAAAAGATCGCCGTGTAATTCTAGAGTCGGGGCGGCCGGCCTTCGAGCAGACATGATAAGATAC 3000  
o  
3' TTAGTCTCTCTAGGAGTATTTCCGGTCTTCCCGCCTTTCTAGCGGCACATTAAGATCTCAGCCCCGCGGCCGCGAAGCTCGTCTGTACTATTCTATG  
o  
o

5' ATTGATGAGTTTGGACAAACCACAACCTAGAATGCAGTGAAAAAATGCTTTATTTGTGAAATTTGTGATGCTATGCTTTATTTGTAACCATTTATAAGCT 3100  
o  
3' TAACTACTCAAACCTGTTTGGTGTGATCTTACGTCACCTTTTTTACGAAATAAACACTTTTAAACACTACGATAACGAAATAAACATTGGTAATATTCGA  
o  
o

5' GCAATAAACAGTTAAACAACAACAATTGCATTCATTTTATGTTTTAGGTTTTCAGGGGAGGTGTGGGAGGTTTTTTAAAGCAAGTAAAACCTCTACAAATG 3200  
o  
3' CGTTATTTGTTCAATTTGTTGTTTAAACGTAAGTAAAATACAAAGTCCAAGTCCCCTCCACACCTCCAAAAAATTCGTTTCATTTTGGAGATGTTTAC  
o  
o

5' TGGTAAAATCGATAAGGATCCGTCGACCGATGCCCTTGAGAGCCTTCAACCCAGTCAAGTCTTCCGGTGGGCGCGGGGCATGACTATCGTCGCCGCACT 3300  
o  
3' ACCATTTTAGCTATTCTAGGACAGTGGCTACGGGAACCTCGGAAGTTGGGTCAGTCGAGGAAGGCCACCCGCGCCCCGACTGATAGCAGCGGCGTGA  
o  
o

5' TATGACTGTCTTCTTTATCATGCAACTCGTAGGACAGGTGCCGGCAGCGCTTCCGCTTCTCGCTCACTGACTCGCTGCGCTCGGTGCTTCGGCTGCG 3400  
o  
3' ATACTGACAGAAGAAATAGTACGTTGAGCATCCTGTCCACGGCCGTCGCGAGAAGGCGAAGGAGCGAGTACTGAGCGACGCGAGCCAGCAAGCCGACGC  
o  
o

5' GCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGAGGAAAGAACATGTGAGCAAAAAGGCCAGCAAAAAGGCC 3500  
o  
3' CGCTCGCCATAGTCGAGTGAGTTTCCGCCATTATGCCAATAGGTGCTTAGTCCCCTATTGCGTCTTTCTTGTACTACTGTTTTCCGGTCTTTTCCGG  
o  
o

5' AGGAACCGTAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACC 3600  
o  
3' TCCTTGGCATTTTTCCGGCGCAACGACCGCAAAAAGGTATCCGAGGCGGGGGACTGCTCGTAGTGTTTTAGCTGCGAGTTCAGTCTCCACCGCTTTGG  
o  
o

5' CGACAGGACTATAAAGATAACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCCTCTCCTGTTCCGACCTGCCGTTACCGGATACCTGTCCGCCTTTCT 3700  
o  
3' GCTGTCTGATATTTCTATGGTCCGCAAAGGGGACCTTCGAGGGAGCACGCGAGAGGACAAGGCTGGGACGGCGAATGGCCTATGGACAGGCGGAAAGA  
o  
o

5' CCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCAGCTGTAGGTATCTCAGTTCGGTGTAGGTGCTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCC 3800  
o  
3' GGGAAAGCCCTTCGCACCGCAAGAGTATCGAGTGCACATCCATAGAGTCAAGCCACATCCAGCAAGCGAGGTTGACCCGACACACGTGCTTGGGGGG  
o  
o

5' GTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGTAGTCCAACCCGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGA 3900  
o  
3' CAAGTCGGGCTGGCGACGCGGAATAGGCCATTGATAGCAGAACTCAGGTTGGGCCATTCTGTGCTGAATAGCGGTGACCGTCTGCGGTGACCATTGTCTCT  
o  
o

```
5' TTAGCAGAGCGAGGTATGTAGCGGTGCTACAGAGTCTTGAAGTGGTGGCTAACTACGGCTACACTAGAAGAACAGTATTTGGTATCTGCGCTCTGCT
o ++++++
3' AATCGTCTCGCTCCATACATCCGCCACGATGTCTCAAGAACTTACCACCGGATTGATGCCGATGTGATCTTCTTGTCAATAACCATAGACGCGAGACGA
o ++++++
o
5' GAAGCCAGTTACCTTCGGAAGAGTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTTGTTTGAAGCAGCAGATTACG
o ++++++
3' CTTCGGTCAATGGAAGCCTTTTTCTCAACCATCGAGAAGTACAGCCGTTTGTGGTGGCGACCATCGCCACCAAAAAACAACGTTTCGTCTAATGC
o ++++++
o
5' CGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGTCTGACGCTCAGTGAACGAAACTCACGTTAAGGGATTTGGTCATGAGAT
o ++++++
3' GCGTCTTTTTTCTAGAGTTCTTCTAGGAACTAGAAAAGATGCCCCAGACTGCGAGTACCTTGCTTTTGTAGTGCAATTCCTAAAACAGTACTCTA
o ++++++
o
5' TATCAAAAAGGATCTTACCTAGATCCTTTTAAATTAATAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATG
o ++++++
3' ATAGTTTTTCTAGAGTGGATCTAGGAAAATTAATTTTTACTTCAAAATTTAGTTAGATTTCATATATACTCATTGAACCAGACTGTCAATGGTTAC
o ++++++
o
o
o
5' CTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTA
o ++++++
3' GAATTAGTCACTCCGTGGATAGAGTCTGCTAGACAGATAAAGCAAGTAGGTATCAACGGACTGAGGGGAGCAGACATCTATGATGCTATGCCCTCCCGAAT
o ++++++
o
5' CCATCTGGCCCCAGTCTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAA
o ++++++
3' GGTAGACCGGGGTCACGACGTTACTATGGCGCTCTGGGTGCGAGTGGCCGAGGCTAAATAGTCGTTATTTGGTTCGGTTCGGCTTCCCGGCTCGCGTCTT
o ++++++
o
o
o
5' GTGGTCTGCAACTTTATCCGCTCCATCCAGTCTATTAATGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGCAGCAACGTTGTTGC
o ++++++
3' CACCAGGACGTTGAAATAGGCGAGGTAGGTAGGATCAATAAACAACGGCCCTTCGATCTCATTCAAGCGGTCATTAATCAAAACGCGTTGCAACAACG
o ++++++
o
5' CATTGCTACAGGCATCGTGGTGTACGCTCGTCTGGTATGGCTTCAATCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCATGTTG
o ++++++
3' GTAACGATGTCCTGACACCACAGTGCAGCAGCAAAACCATACCGAAGTAAAGTTCGAGGCCAAGGGTTGCTAGTTCCGCTCAATGTAAGGGGTACAAC
o ++++++
o
5' TGCAAAAAAGCGGTTAGTCTCCTCGGTCTCCGATCGTTGTCAGAAAGTAAGTTGGCCGAGTGTATCACTCATGGTTATGGCAGCACTGCATAATCTC
o ++++++
3' ACGTTTTTTTCCCAATCGAGGAAGCCAGGAGGTAGCAACAGTCTTCAATCAACCGCGTCAACAATAGTACCAATACCGTCTGACGTATTAAGAG
o ++++++
o
5' TTAGTGTATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGGTACTCAACCAAGTCAATCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCC
o ++++++
3' AATGACAGTACGGTAGGCATTCTACGAAAAGACACTGACCACTCATGAGTTGGTTCAGTAAGACTCTTATCACATACGCCGCTGGTCAACGAGAACGGG
o ++++++
o
5' GCGTCAATACGGGATAATACCGGCCACATAGCAGAACTTAAAAGTGCTCATCATTTGAAAACGTTCTTCCGGGCGAAAACCTCAAGGATCTTACCG
o ++++++
3' CCGCAGTTATGCCCTATTTATGGCGCGGTGATCGTCTTGAATTTTACAGAGTAGTAACCTTTTGAAGAAGCCCGCTTTTGTAGAGTTCTTGAATGGC
o ++++++
o
5' CTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCAACTGATCTTTCAGCATCTTTTACTTTTACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGC
o ++++++
3' GACAACCTTAGGTCAGCTACATTTGGTGGAGCAGTGGTGGTACTAGAAGTCGTAGAAAATGAAAGTGGTTCGCAAGACCCACTCGTTTTTGTCCCTCCG
o ++++++
o
5' AAAATGCCGCAAAAAAGGGAATAAGGGCGACACGAAATGTTGAATACTCATACTCTTCTTTTCAATATTATGAAGCATTATCAGGGTTATTGTCT
o ++++++
3' TTTTACGGCGTTTTTTTCCCTTATTTCCGCTGTGCCTTTTACAACCTATGAGTATGAGAAGGAAAAAGTTATAATAACTTCGTAATAGTCCCAATAACAGA
o ++++++
o
o
```

