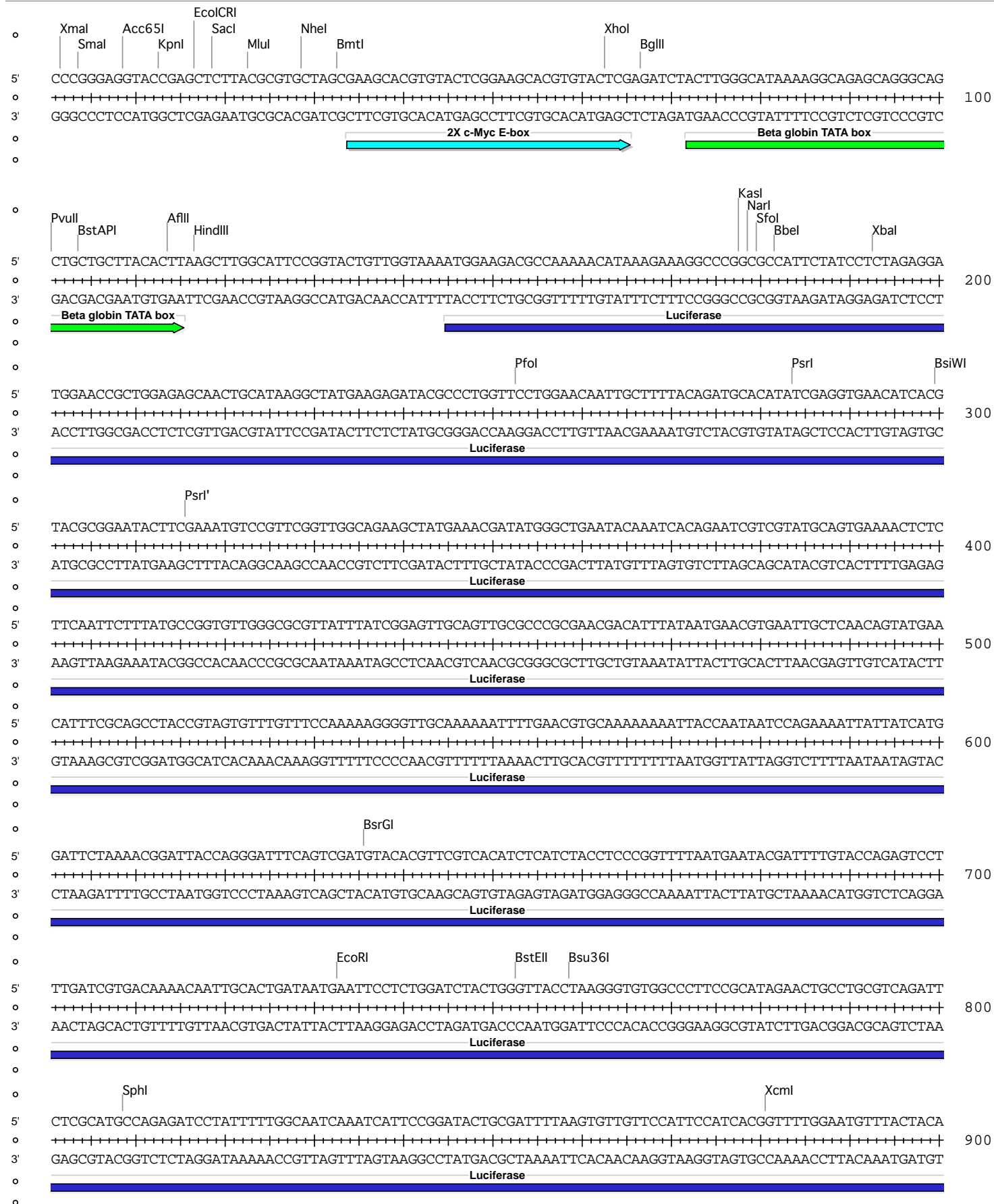
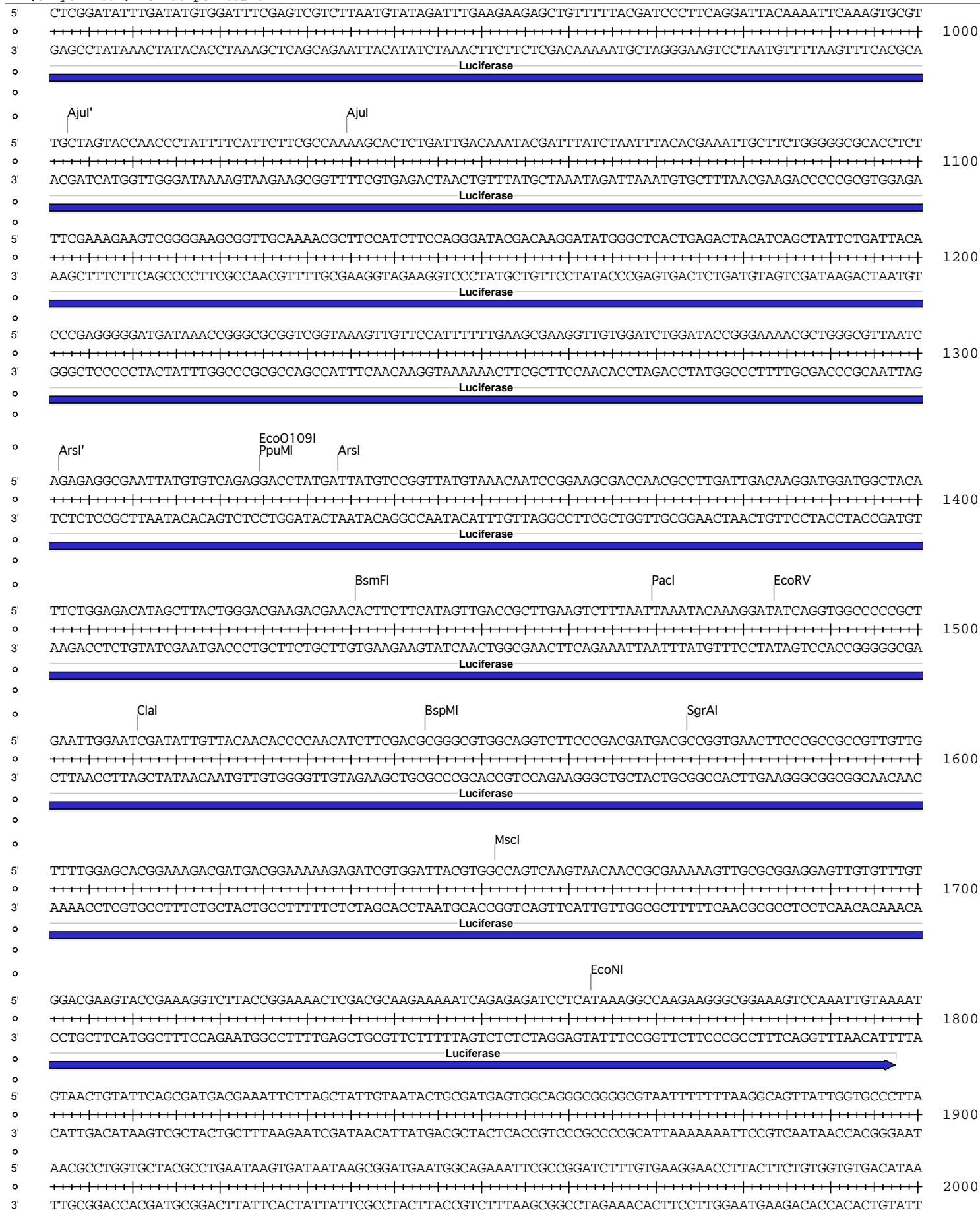




Absent Sites	0	AarI,AatII,AbSI,Agel,AelI,Apal,AscI,AsiSI,AvrII,BaeI,BaeI',BbvCI,BclI,BlpI,BmgBI,Bpu10I,BsmBI,BssHII,BstXI,BstZ17I,BtgI,CspCI,CspCI',EagI,FalI,Fall',FseI,FspAI,MauBI,MreI,NcoI,NdeI,NotI,NruI,Nsil,PasI,PmeI,PspOMI,PspXI,PstI,RsrII,SacII,SanDI,SbfI,SexAI,SfiI,SgrDI,SnaBI,SpeI,SrfI,StuI,Swal,Tth111I,ZraI
Acc65I	1	(8) 9 (5658)
AccI	1	(2814) 2815 (2852)
AfeI	1	(2939) 2940 (2727)
AfIII	1	(113) 114 (5553)
AhdI	1	(3956) 3957 (1710)
AjuI	1	(1034) 1035 (4632)
AjuI'	1	(1002) 1003 (4664)
Alol	1	(5176) 5177 (490)
Alol'	1	(5144) 5145 (522)
ArsI	1	(1333) 1334 (4333)
ArsI'	1	(1301) 1302 (4365)
BamHI	1	(2807) 2808 (2859)
BbeI	1	(181) 182 (5485)
BglII	1	(66) 67 (5600)
BmtI	1	(32) 33 (5634)
BsaBI	1	(2575) 2576 (3091)
BsaI	1	(4017) 4018 (1649)
BsgI	1	(2344) 2345 (3322)
BsiWI	1	(299) 300 (5367)
BsmFI	1	(1435) 1436 (4231)
BspMI	1	(1543) 1544 (4123)
BsrGI	1	(635) 636 (5031)
BstAPI	1	(103) 104 (5563)
BstEII	1	(752) 753 (4914)
Bsu36I	1	(758) 759 (4908)
Clal	1	(1510) 1511 (4156)
DrallI	1	(5108) 5109 (558)
EcoCRI	1	(16) 17 (5650)
EcoNI	1	(1762) 1763 (3904)
EcoO109I	1	(1324) 1325 (4342)
EcoRI	1	(732) 733 (4934)
EcoRV	1	(1483) 1484 (4183)
HindIII	1	(116) 117 (5550)
KasI	1	(177) 178 (5489)
KpnI	1	(12) 13 (5654)
MluI	1	(22) 23 (5644)
MscI	1	(1651) 1652 (4015)
NarI	1	(178) 179 (5488)
NheI	1	(28) 29 (5638)
NmeAIII	1	(4105) 4106 (1561)
PacI	1	(1469) 1470 (4197)
PciI	1	(3063) 3064 (2603)
PfIMI	1	(2112) 2113 (3554)
PfoI	1	(252) 253 (5414)
PpuMI	1	(1324) 1325 (4342)
PshAI	1	(2878) 2879 (2788)
PsrI	1	(283) 284 (5383)
PsrI'	1	(315) 316 (5351)
PvuII	1	(100) 101 (5566)

SacI	1	(18) 19 (5648)
Sall	1	(2813) 2814 (2853)
Scal	1	(4436) 4437 (1230)
SfoI	1	(179) 180 (5487)
SgrAI	1	(1573) 1574 (4093)
Smal	1	(3) 4 (5663)
SphI	1	(808) 809 (4858)
StyI	1	(2260) 2261 (3406)
XbaI	1	(192) 193 (5474)
XcmI	1	(880) 881 (4786)
XhoI	1	(62) 63 (5604)
XmaI	1	(1) 2 (5665)
XmnI	1	(4555) 4556 (1111)





5' TTGGACAAACTACCTACAGAGATTTAAAGCTCTAAGGTAATATAAAAATTTTAAAGTGATAATGTGTAAACTACTGATCTAAATGTTTGTGTATTTT  
2100  
3' AACCTGTTTGTGGATGTCTCTAAAATTCGAGATTCATTTATATTTTAAAATTCACATATTACACAATTTGATGACTAAGATTAAACAAACACATAAAA

PflMI

5' AGATTCCAACCTATGGAAGTGAATGGGAGCAGTGGTGGAAATGCCTTTAATGAGGAAAACCTGTTTGTCTCAGAAGAAATGCCATCTAGTGTGTGATGA  
2200  
3' TCTAAGTTGGATACCTTGAAGTGAATGGGAGCAGTGGTGGAAATGCCTTTAATGAGGAAAACCTGTTTGTCTCAGAAGAAATGCCATCTAGTGTGTGATGA

Styl

5' GGCTACTGCTGACTCTCAACATTTCTACTCTCCAAAAAGAGAAAGGTAGAAGACCCCAAGGACTTTCCTTCAGAAATGCTAAGTTTGTGAGTCAT  
2300  
3' CCGATGACGACTGAGAGTTGTAAGATGAGGAGGTTTTTCTTCTCTTTCCATCTTCTGGGGTTCTGAAAGGAAGTCTTAACGATTCAAAAAACTCAGTA

BsgI

5' GCTGTGTTTAGTAATAGAAGCTCTTGCTTTGCTATTACACCACAAAGGAAAAGCTGCAGTGCATATAACAAGAAAATTTATGGAATAATCTGTAAT  
2400  
3' CGACACAAATCATTATCTTGAGAACGAACGAAACGATAAATGTGGTGTTCCTTTTTCGACGTGACGATATGTTCTTTAATACCTTTTATAAGACATT

5' CCTTTATAAGTAGGCATAACAGTTATAATCATAACATACTGTTTTTCTTACTCCACACAGGCATAGAGTGTCTGTATTAATAACTATGCTCAAAAAAT  
2500  
3' GGAAATATTCATCCGTATTGTCAATATTAGTATGATGACAAAAAGAATGAGGTGTGTCGTATCTCACAGACGATAAATTTATGATACGAGTTTTTAA

BsaBI

5' GTGTACCTTTAGCTTTTAAATTTGTAAAGGGGTTAATAAGGAATAATTGATGTATAGTGCTTGACTAGAGATCATAATCAGCCATACCACATTTGTAGA  
2600  
3' CACATGGAAATCGAAAAATTAAACATTTCCCAATTATCTTATAAACTACATATCACGGAAGTATCTTAGTATTAGTCGGTATGGTGTAAACATCT

**SV40 late polyA**

5' GGTTTACTTGTCTTAAAAACCTCCCACACCTCCCCTGAACCTGAAACATAAAAATGAATGCAATTTGTTGTTAACTGTGTTATTGCAGCTTATAAT  
2700  
3' CCAAAATGAACGAAATTTTTTGAGGGTGTGGAGGGGACTTGGACTTTGTATTTACTTACGTTAACAAACAATTTGAACAAATAACGTCGAATATTA

**SV40 late polyA**

5' GGTTCAAAATAAAGCAATAGCATCACAAATTCACAAATAAAGCATTTTTTTCACATGATTTAGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATC  
2800  
3' CCAATGTTTTATTTCGTTATCGTAGTGTTTAAAGTGTATTTTCGTAATAAAGTGTAGCAGTAAGATCAACACCAACAGGTTTGAGTAGTTACATAGAATAG

**SV40 late polyA**

BamHI

Sall  
AccI

PshAI

5' ATGTCTGGATCCGTCGACCGATGCCCTTGAGAGCTTCAACCAGTCAGCTCCTTCCGGTGGCGCGGGGCATGACTATCGTCGCCGACTTATGACTGT  
2900  
3' TACAGACCTAGGCAGCTGGCTACGGAACTCTCGGAAGTTGGGTCTGAGGAAAGCCACCGCGCCCGTACTGATAGCAGCGCGTGAATACTGACA

**SV40...lyA**

AfeI

5' CTTCTTTATCATGCAACTCGTAGGACAGGTGCCGGCAGCGCTCTCCGCTTCTCGCTCACTGACTCGCTCGGCTCGGTCTGGCTGCCGGCAGCGGT  
3000  
3' GAAGAAATAGTACGTTGAGCATCCTGTCACGGCCGTCCCGAAGGCGAAGGAGCGAGTGACTGAGCGACCGGAGCCAGCAAGCCGACCGCTCGCCA

PciI

5' ATCAGCTCACTCAAAGCGGTAAATACGTTATCCACAGAAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAGGCCAGCAAAGGCCAGGAACCGT  
3100  
3' TAGTCGAGTGAGTTTCCGCCATTTATGCCAATAGTGTCTTAGTCCCTATTCGCTCTTTCTTGTACTACTCGTTTTCCGGTCGTTTCCGGTCCTTGGCA

5' AAAAAGGCCGCTGTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGAC  
3200  
3' TTTTCCGGCCAACGACCCGCAAAAAGGTATCCGAGGCGGGGGACTGCTCGTAGTGTTTTTAGCTGCGAGTTCAGTCTCCACCCTTTGGGCTGTCTGT



o  
5' ACGGGATAATACCGCGCCACATAGCAGAAGCTTTAAAAGTGCTCATCATTTGGAAAACGTTCTTCGGGGCGAAAACCTCTCAAGGATCTTACCGCTGTTGAGA 4600  
o ++++++  
3' TGCCCTATTATGGCGCGGTGTATCGTCTTGAAATTTTCACGAGTAGTAACCTTTTGCAAGAAGCCCCGCTTTTGAGAGTTCTTAGAATGGCGACAACCTCT  
o  
o **beta-lactamase**  
o  
5' TCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTTACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCG 4700  
o ++++++  
3' AGGTCAAGCTACATTGGGTGAGCACGTGGGTTGACTAGAACTCGTAGAAAATGAAAGTGGTCGAAAGACCCACTCGTTTGTCTTCCGTTTACGGC  
o  
o **beta-lactamase**  
o  
5' CAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTTTCCTTTTCAATATTATTGAAGCATTATCAGGGTTATTGTCTCATGAGCGG 4800  
o ++++++  
3' GTTTTTTCCCTTATTCCCGCTGTGCCTTTACAACCTATGAGTATGAGAAGGAAAAAGTTATAATAACTTCGTAAATAGTCCCAATAACAGAGTACTCGCC  
o  
o **beta-lactamase**  
o  
5' ATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGCGCCCTGTAGCGGCGCATTAAGC 4900  
o ++++++  
3' TATGTATAAACTTACATAAATCTTTTTATTTGTTTATCCCAAGCGCGTGTAAAGGGCTTTTACGGTGGACTGCGCGGGACATCGCCGCGTAATTCG  
o  
5' GCGGCGGGTGTGGTGGTTACGCGCAGCGTGACCGCTACACTTGCCAGCGCCCTAGCGCCCGCTCCTTTTCGCTTTCTTCCCTTCCCTTCTCGCCACGTTTCG 5000  
o ++++++  
3' CGCCGCCACACCACCAATGCGCGTGCCTGCGATGTGAACGTCGCGGGATCGCGGGCAGGAAAGCGAAAGAAGGAAAGAGCGGTGCAAGC  
o  
5' CCGGCTTTCCCGTCAAGCTCTAAATCGGGGGCTCCCTTTAGGGTTCGATTTAGTGCTTTACGGCACCTCGACCCCAAAAACCTTGATTAGGGTGATGG 5100  
o ++++++  
3' GGCCGAAAGGGCAGTTCGAGATTTAGCCCCGAGGAAATCCCAAGGCTAAATCACGAAATGCCGTGGAGCTGGGGTTTTTGAACATAATCCCACTACC  
o  
o  
o Drall Alol' Alol  
5' TTCAGTAGTGGGCCATCGCCCTGATAGACGGTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCCAAACCTGGAACAACA 5200  
o ++++++  
3' AAGTGCATCACCCGGTAGCGGGACTATCTGCCAAAAGCGGAAACTGCAACCTCAGGTGCAAGAAATTTATCACCTGAGAACAAGGTTTGACCTTGTGT  
o  
5' CTCAACCTATCTCGTCTATTTCTTTGATTTATAAGGGATTTTGCCGATTTGCGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAATTTAACGCGA 5300  
o ++++++  
3' GAGTTGGGATAGAGCCAGATAAGAAAATAAATATTCCCTAAAACGGCTAAAGCCGATAACCAATTTTACTCGACTAAATGTTTTTAAATTTGCGCT  
o  
5' ATTTAACAAAATATTAACGTTTACAATTTCCCATTCGCCATTCAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCCTTTCGCTATTACGCCA 5400  
o ++++++  
3' TAAAATGTTTTATAATTGCAAATGTTAAAGGGTAAGCGGTAAGTCCGACGCGTTGACAACCCTTCCCGCTAGCCACGCCCGGAGAAGCGATAATGCGGT  
o  
5' GCCCAAGCTACCATGATAAGTAAGTAATATTAAGGTACGTGGAGGTTTTACTTGCTTTAAAAAACCTCCACACCTCCCCCTGAACCTGAAACATAAAAT 5500  
o ++++++  
3' CGGGTTCGATGGTACTATTCAATCATTATAATCCATGCACCTCCAAAATGAACGAAATTTTGGAGGGTGTGGAGGGGACTTGGACTTTGTATTTTA  
o  
5' GAATGCAATGTTGTTGTTAACTTGTATTATGCAGCTTATAATGGTTACAAATAAGCAATAGCATCACAAATTTACAAAATAAGCATTTTTTCACTG 5600  
o ++++++  
3' CTTACGTTAACAAACAATTGAACAAATAACGTCGAATATTACCAATGTTATTTTCGTTATCGTAGTGTAAAGTGTATTTCGTAAAAAAGTGAC  
o  
5' CATCTAGTTGTGGTTTGTCCAAACTCATCAATGTATCTTATGGTACTGTAAGTACTGAGCTAACATAA 5666  
o ++++++  
3' GTAAGATCAACACCAACAGGTTTGGAGTAGTTACATAGAATACCATGACATTGACTCGATTGTATT