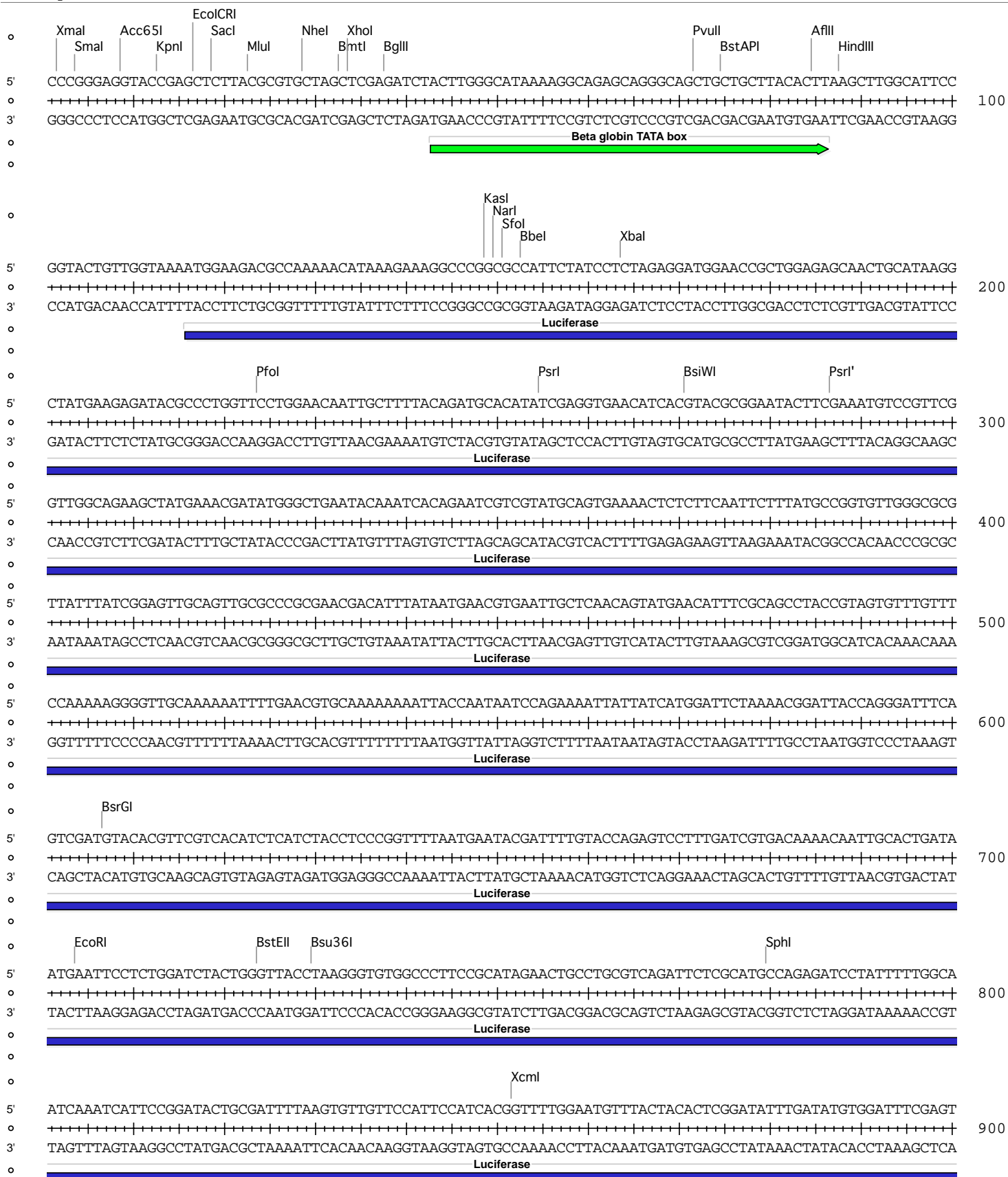
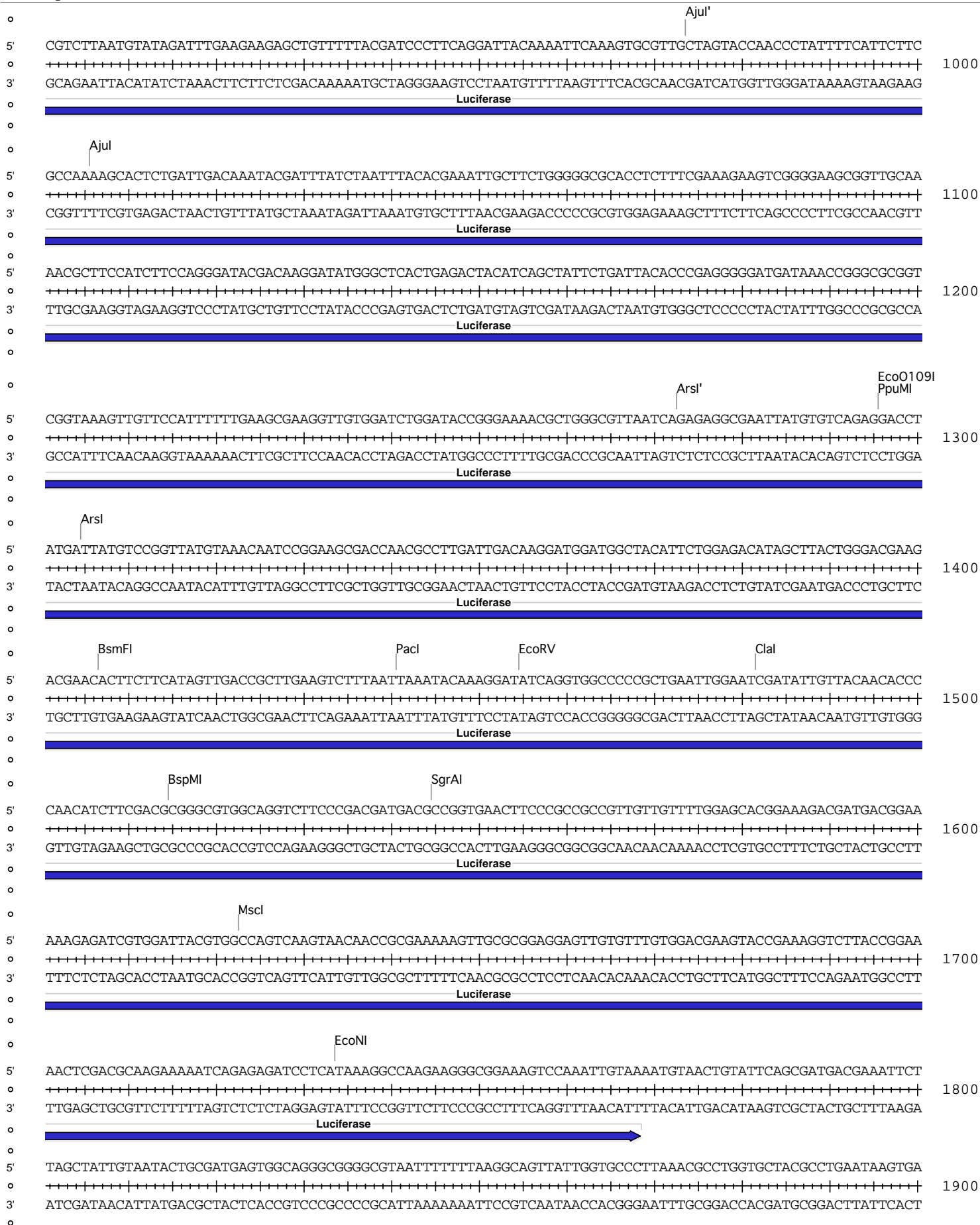


Absent Sites	0	AarI,AatII,AbSI,Agel,AleI,Apal,AscI,AsiSI,AvrII,BaeI,BaeI',BbvCI,BclI,BlpI,BmgBI,Bpu10I,BsmBI,BssHII,BstXI,BstZ17I,BtgI,CspCI,CspCI',EagI,FalI,Fall',FseI,FspAI,MauBI,MreI,NcoI,NdeI,NotI,NruI,Nsil,PasI,PmeI,PmlI,PspOMI,PspXI,PstI,RsrII,SacII,SanDI,SbfI,SexAI,SfiI,SgrDI,SnaBI,SpeI,SrfI,StuI,Swal,Tth111I,ZraI
Acc65I	1	(8) 9 (5629)
AccI	1	(2785) 2786 (2852)
AfeI	1	(2910) 2911 (2727)
AfIII	1	(84) 85 (5553)
AhdI	1	(3927) 3928 (1710)
AjuI	1	(1005) 1006 (4632)
AjuI'	1	(973) 974 (4664)
Alol	1	(5147) 5148 (490)
Alol'	1	(5115) 5116 (522)
ArsI	1	(1304) 1305 (4333)
ArsI'	1	(1272) 1273 (4365)
BamHI	1	(2778) 2779 (2859)
BarI	1	(1933) 1934 (3704)
BarI'	1	(1965) 1966 (3672)
BbeI	1	(152) 153 (5485)
BglII	1	(37) 38 (5600)
BmtI	1	(32) 33 (5605)
BsaBI	1	(2546) 2547 (3091)
BsaI	1	(3988) 3989 (1649)
BsgI	1	(2315) 2316 (3322)
BsiWI	1	(270) 271 (5367)
BsmFI	1	(1406) 1407 (4231)
BspMI	1	(1514) 1515 (4123)
BsrGI	1	(606) 607 (5031)
BstAPI	1	(74) 75 (5563)
BstEII	1	(723) 724 (4914)
Bsu36I	1	(729) 730 (4908)
Clal	1	(1481) 1482 (4156)
DrallI	1	(5079) 5080 (558)
EcoCRI	1	(16) 17 (5621)
EcoNI	1	(1733) 1734 (3904)
EcoO109I	1	(1295) 1296 (4342)
EcoRI	1	(703) 704 (4934)
EcoRV	1	(1454) 1455 (4183)
HindIII	1	(87) 88 (5550)
KasI	1	(148) 149 (5489)
KpnI	1	(12) 13 (5625)
MluI	1	(22) 23 (5615)
MscI	1	(1622) 1623 (4015)
NarI	1	(149) 150 (5488)
NheI	1	(28) 29 (5609)
NmeAIII	1	(4076) 4077 (1561)
PacI	1	(1440) 1441 (4197)
PciI	1	(3034) 3035 (2603)
PfIMI	1	(2083) 2084 (3554)
PfoI	1	(223) 224 (5414)
PpuMI	1	(1295) 1296 (4342)
PshAI	1	(2849) 2850 (2788)
PsrI	1	(254) 255 (5383)

Psrl'	1	(286) 287 (5351)
Pvull	1	(71) 72 (5566)
Sacl	1	(18) 19 (5619)
Sall	1	(2784) 2785 (2853)
Scal	1	(4407) 4408 (1230)
Sfol	1	(150) 151 (5487)
SgrAI	1	(1544) 1545 (4093)
Smal	1	(3) 4 (5634)
SphI	1	(779) 780 (4858)
StyI	1	(2231) 2232 (3406)
XbaI	1	(163) 164 (5474)
XcmI	1	(851) 852 (4786)
XhoI	1	(33) 34 (5604)
XmaI	1	(1) 2 (5636)
XmnI	1	(4526) 4527 (1111)





o Scal
5' GGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGGCCACATAGCAGAA 4500
o ++++++
3' CCACTCATGAGTTGGTTCAGTAAGACTCTTATCACATACGCCGCTGGCTCAACGAGAACGGGCGCAGTTATGCCCTATTATGGCGCGGTGATCGTCTT
o **beta-lactamase**
o
o XmnI
5' CTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACCTCAAGGATCTTACCCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGACCC 4600
o ++++++
3' GAAATTTTCACGAGTAGTAACCTTTTGCAAGAAGCCCGCTTTTGAGAGTTCCCTAGAATGGCGACAACCTCTAGGTCAAGCTACATTGGGTGAGCACGTGG
o **beta-lactamase**
o
o
5' CAACTGATCTTCAGCATCTTTTACTTTCCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAGGGAATAAGGGCGACACGGAAA 4700
o ++++++
3' GTTGACTAGAAGTCGTAGAAAATGAAAGTGGTCGAAAGACCCACTCGTTTTTGTCTTCCGTTTTACGGCGTTTTTCCCTTATTCGCCGTGTGCCTTT
o **beta-lactamase**
o
o
5' TGTTGAATACTCATACTCTTCTTTTTCAATATATTGAAGCATTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATA 4800
o ++++++
3' ACAACTTATGAGTATGAGAAGGAAAAAGTTATAATAACTTCGTAATAGTCCCAATAACAGAGTACTCGCCTATGTATAAACTTACATAAACTTTTTTAT
o **beta-lactamase**
o
o
5' AACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGACGCGCCTGTAGCGGCGCATTAGCGCGCGGGTGTGGTGGTTACGCGCAGCGT 4900
o ++++++
3' TTGTTTATCCCAAGGCGCGTGTAAAGGGGCTTTTACGGTGGACTGCGCGGGACATCGCCGCGTAATTGCGCGCGCCACACCACCAATGCGCGTCGCA
o
o
5' GACCGCTACACTTGCCAGCGCCTAGCGCCCGTCTTTCGCTTTCTTCCCTTCTTCTCGCCACGTTGCGCGGCTTTCCCGTCAAGCTCTAAATCGG 5000
o ++++++
3' CTGGCGATGTGAACGTCGCGGGATCGCGGGCAGGAAAGCGAAAAGGAAGGAAGAAAGAGCGGTGCAAGCGGCCGAAAAGGGGCAGTTCGAGATTTAGCC
o
o
o Drall
5' GGGCTCCCTTTAGGGTTCCGATTTAGTGCTTTACGGCACCTCGACCCCAAAAAACTTGATTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGA 5100
o ++++++
3' CCCGAGGAAAATCCCAAGGCTAAATCACGAAATGCCGTGGAGCTGGGGTTTTTGAACATAATCCACTACCAAGTGCATCACCCGGTAGCGGGACTATCT
o
o
o AolI
5' CGGTTTTTCGCCCTTTGACGTTGGAGTCCACGTTCTTTAATAGTGGACTCTTGTTCAAAACCTGGAACAACACTCAACCCCTATCTCGGTCTATCTTTTGA 5200
o ++++++
3' GCCAAAAGCGGAAACTGCAACCTCAGGTGCAAGAAATATCACCTGAGAACAAGGTTTGACCTTGTGTGAGTTGGGATAGAGCCAGATAAGAAAACT
o
o
o
5' TTTATAAGGGATTTTGCCGATTTGCGCCTATTGGTTAAAAAATGAGCTGATTTAACAAAAATTTAACCGCAATTTAACAAAATATTAACGTTTACAATT 5300
o ++++++
3' AAATATTCCCTAAAACGGCTAAAGCCGATAACCAATTTTACTCGACTAAATGTTTTTAAATTTGCGCTTAAATTTGTTTTATAATTGCAAATGTTAA
o
o
o
5' TCCCATTCGCCATTGAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCTCTTTCGCTATTACGCCAGCCCAAGCTACCATGATAAGTAAGTAATA 5400
o ++++++
3' AGGGTAAGCGGTAAGTCCGACGCGTTGACAACCCTTCCGCTAGCCACGCCCGGAGAAGCGATAATGCGGTGCGGTTTCGATGGTACTATTCAATCATTAT
o
o
o
5' TTAAGGTACGTGGAGGTTTTACTTGCCTTAAAAAACCTCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATGTTGTTGTTAACTTGTTTA 5500
o ++++++
3' AATTCCATGCACCTCCAAAATGAACGAAATTTTGGAGGGTGTGGAGGGGACTTGGACTTTGTATTTACTTACGTTAACAACAACAATGGAACAAAT
o
o
o
5' TTGCAGCTTATAATGGTTACAAATAAGCAATAGCATCACAAATTCACAAATAAAGCATTTTTTTCACTGCATCTAGTTGTGGTTTGTCCAAACTCAT 5600
o ++++++
3' AACGTCGAATATTACCAATGTTTATTTCGTTATCGTAGTGTAAAGTGTATTTCGTAATAAAAGTGACGTAAGATCAACACCAACAGGTTTGAGTA
o
o
o
5' CAATGTATCTTATGGTACTGTAAGTGAAGCTAACATAA 5637
o ++++++
3' GTTACATAGAATACCATGACATTGACTCGATTGTATT