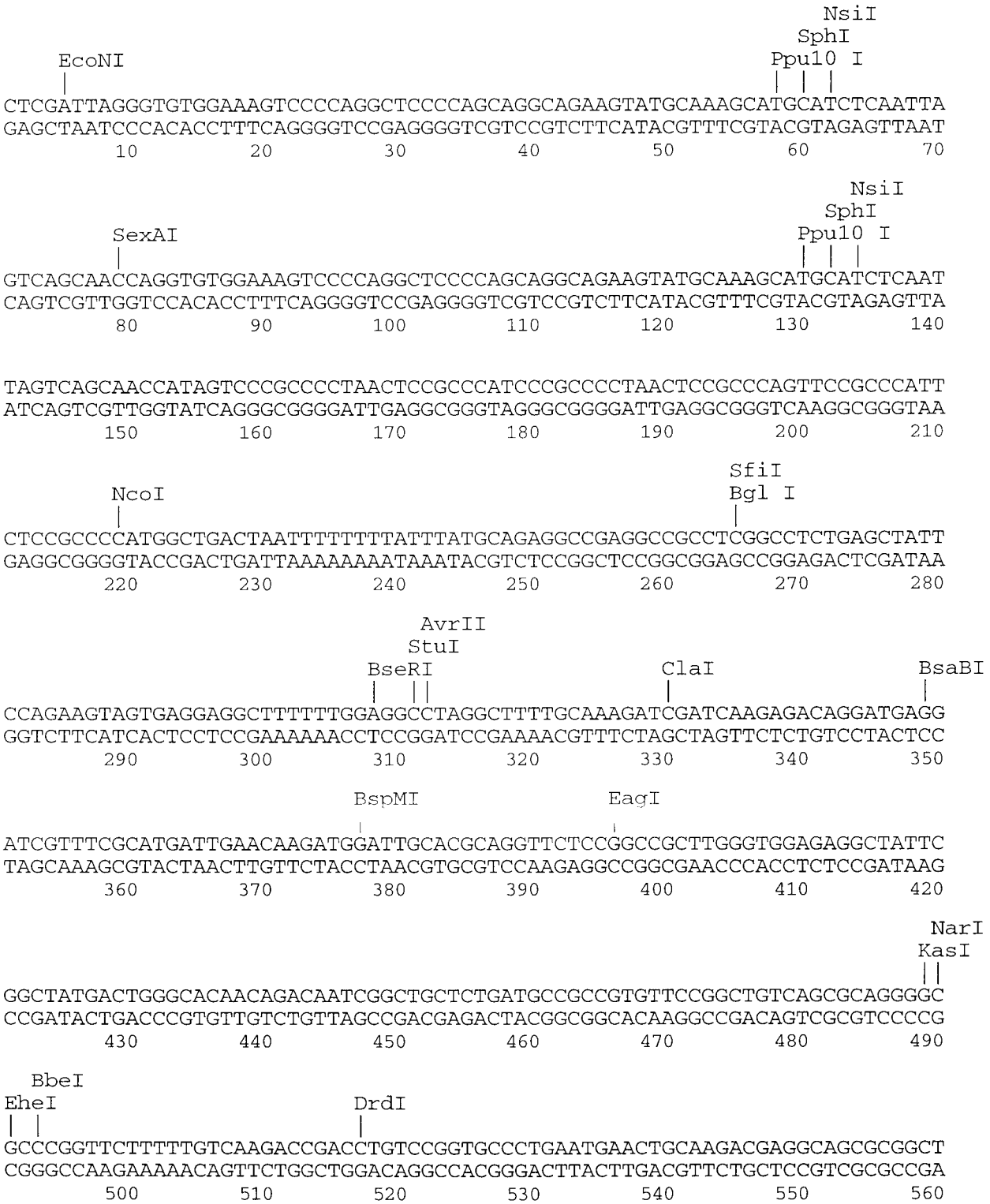
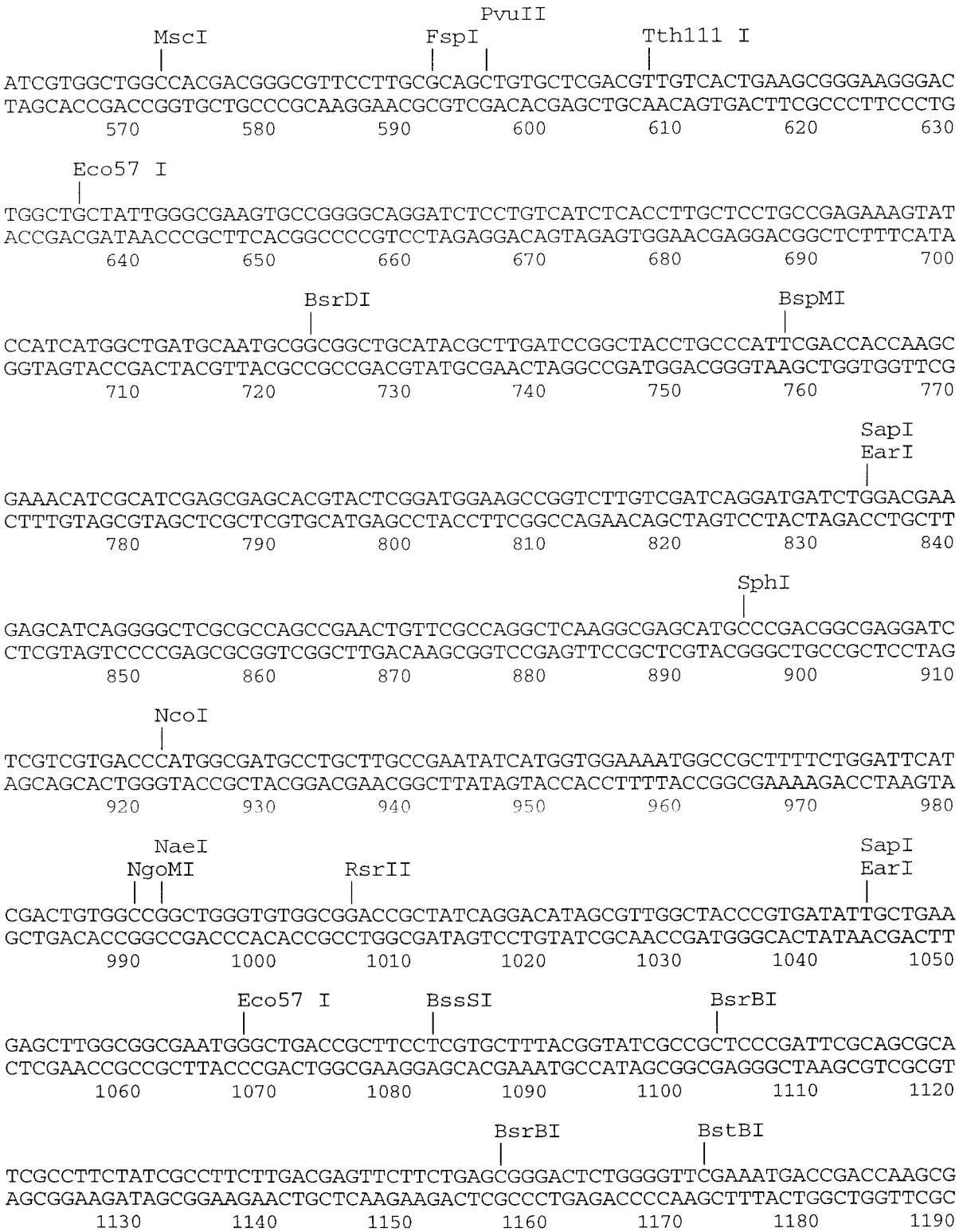
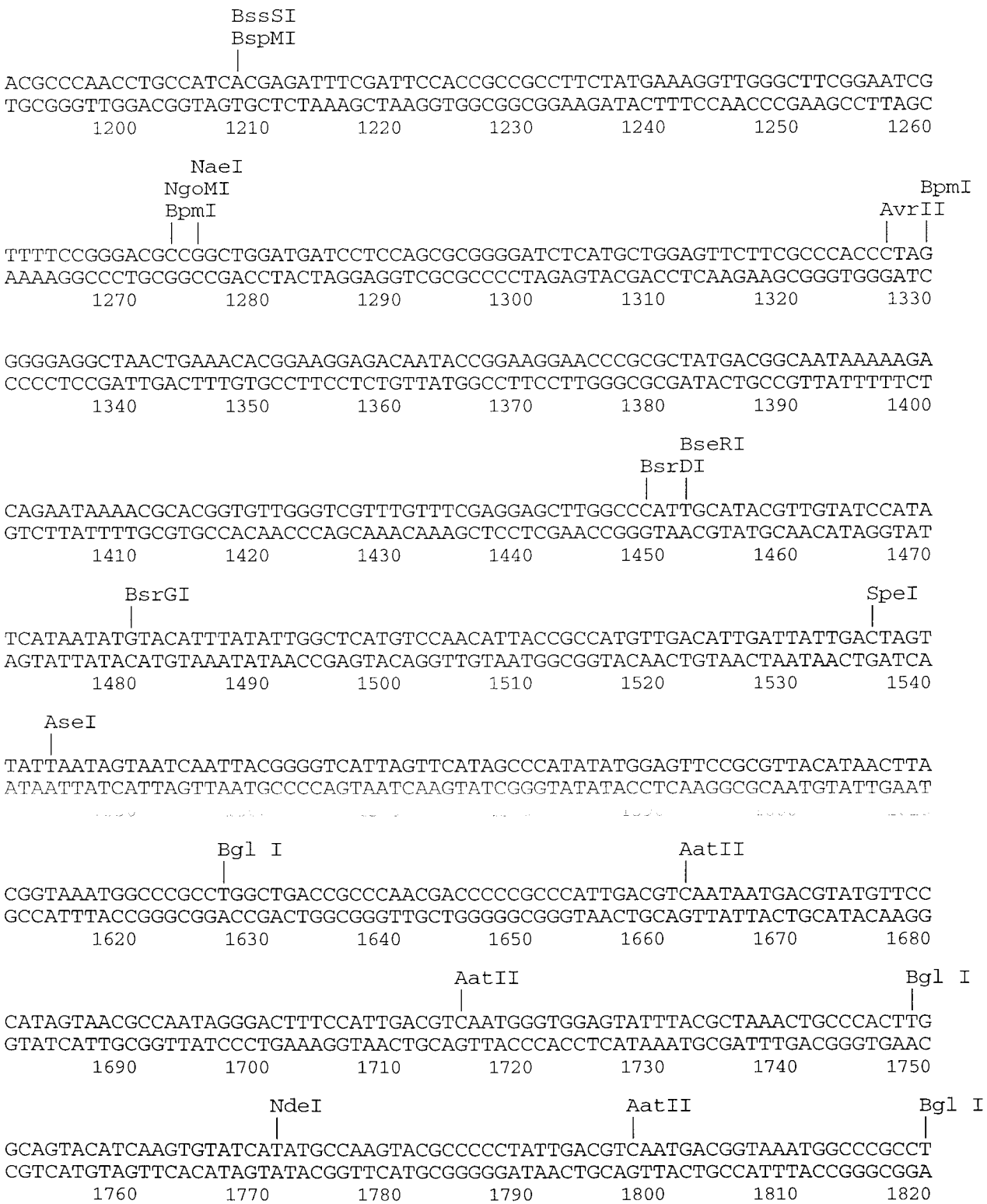
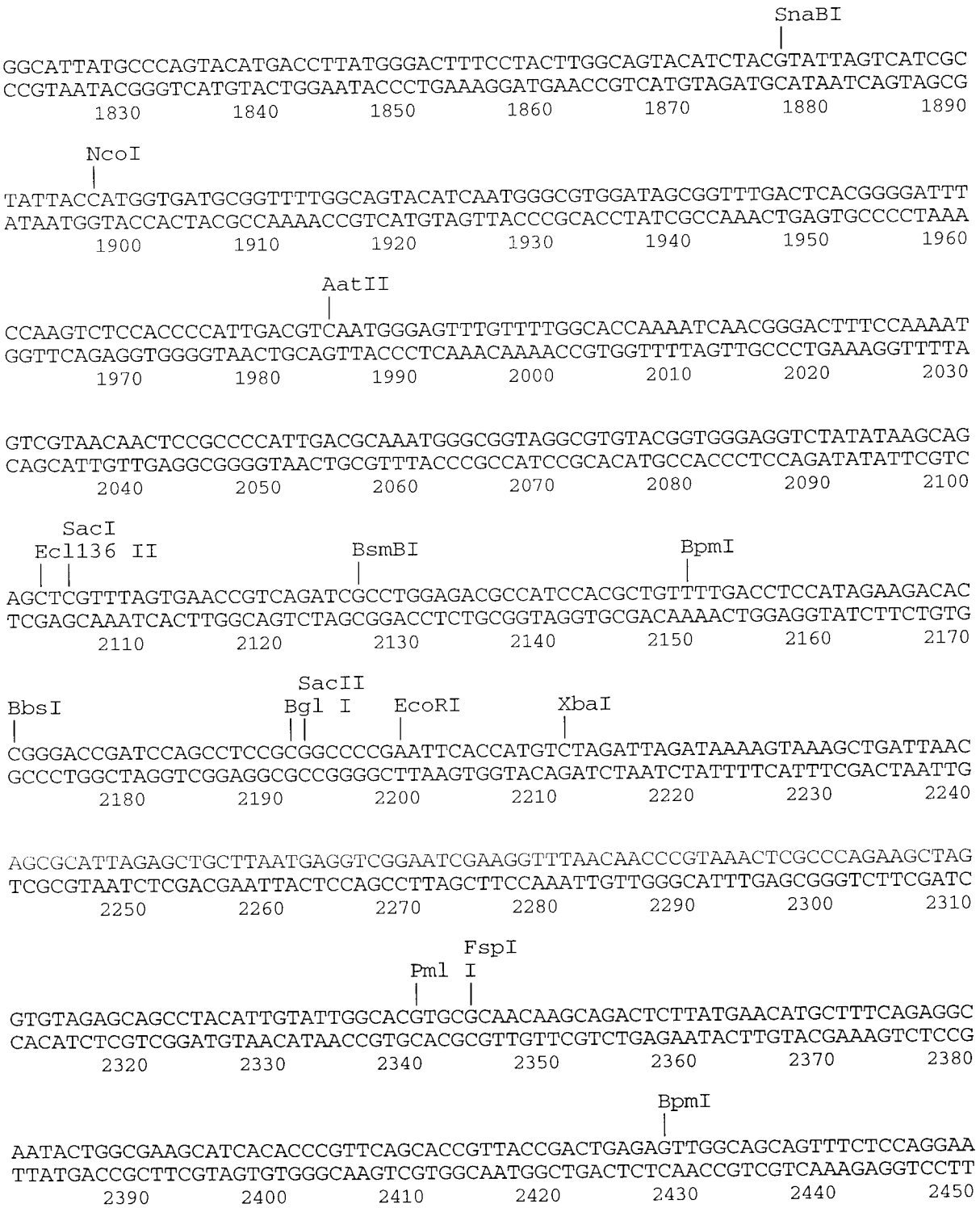
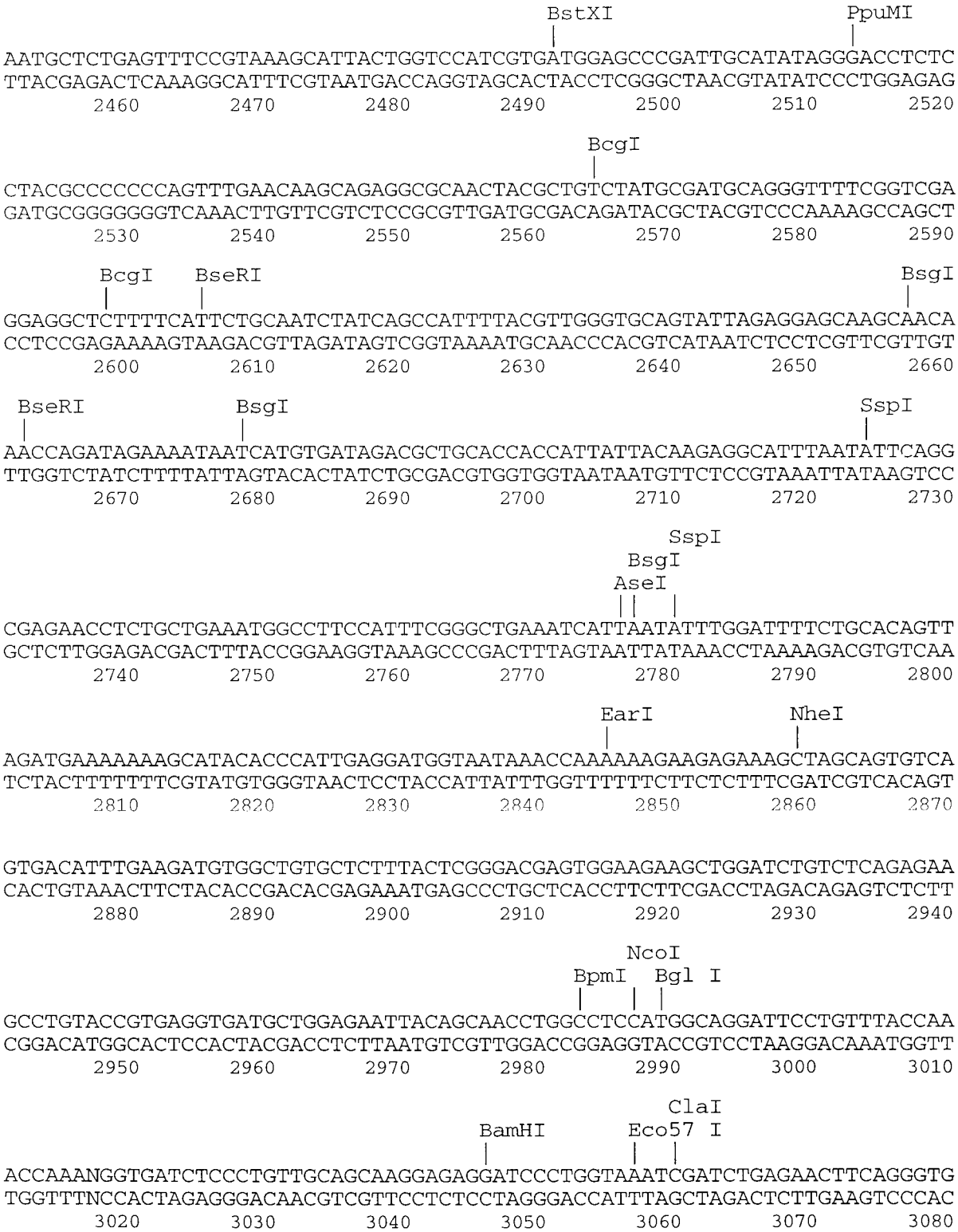
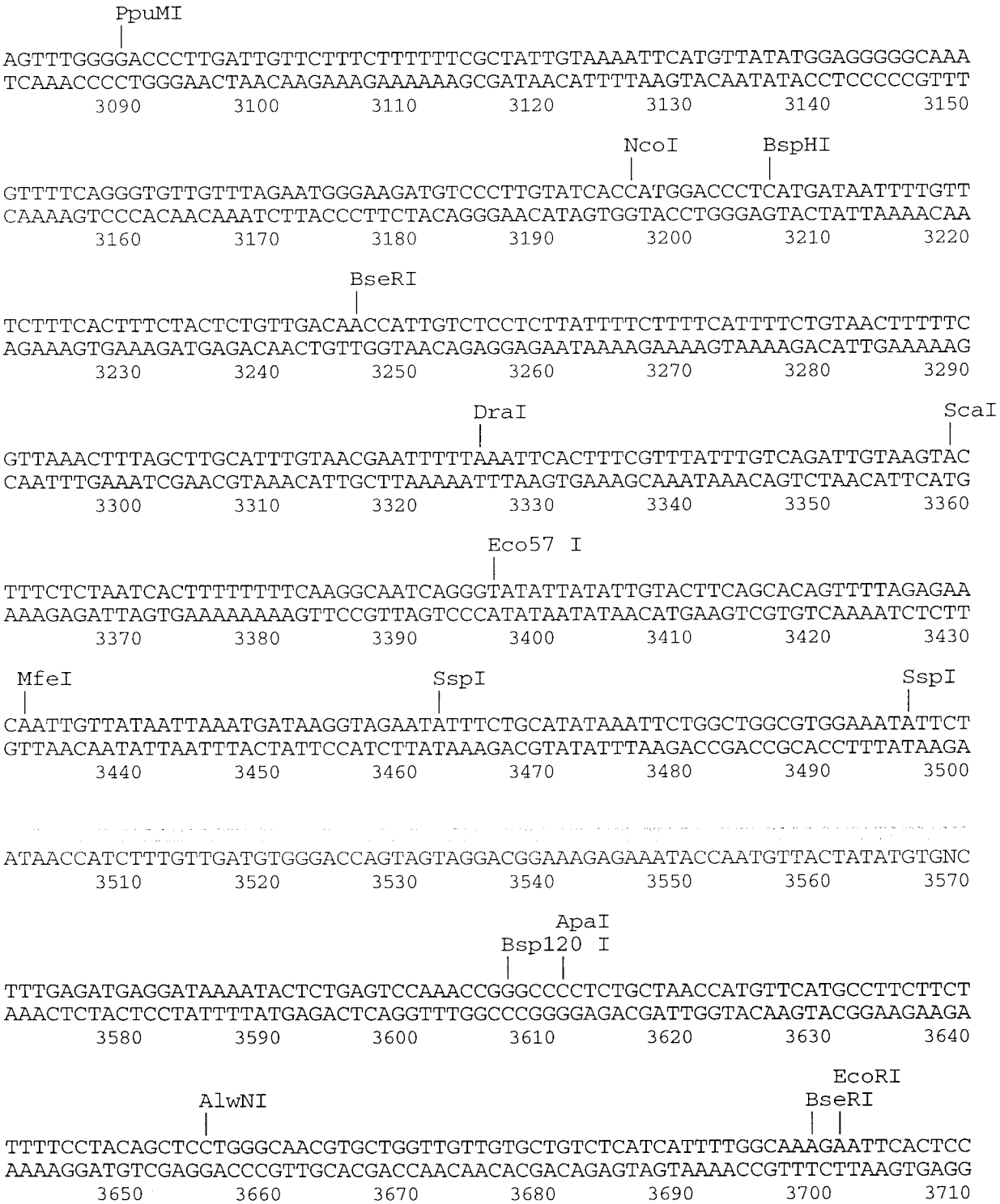

NsiI
SphI
EcoNI
Ppu10 I
CTCGATTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTA
GAGCTAATCCCACACCTTTCAGGGGTCCGAGGGGTCGTCCGTCTTCATACGTTTCGTACGTAGAGTTAAT
10 20 30 40 50 60 70
NsiI
SphI
SexAI
Ppu10 I
GTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAAT
CAGTCGTTGGTCCACACCTTTCAGGGGTCCGAGGGGTCGTCCGTCTTCATACGTTTCGTACGTAGAGTTA
80 90 100 110 120 130 140
TAGTCAGCAACCATAGTCCCGCCCCTAACTCCGCCCATCCCGCCCCTAACTCCGCCCAGTTCCGCCCATT
ATCAGTCGTTGGTATCAGGGCGGGGATTGAGGCGGGTAGGGCGGGGATTGAGGCGGGTCAAGGCGGGTAA
150 160 170 180 190 200 210
SfiI
NcoI
Bgl I
CTCCGCCCCATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCGGCCTCTGAGCTATT
GAGGCGGGGTACCGACTGATTAAAAAAAATAAATACGTCTCCGGCTCCGGCGGAGCCGGAGACTCGATAA
220 230 240 250 260 270 280
AvrII
StuI
BseRI
ClaI
BsaBI
CCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAGATCGATCAAGAGACAGGATGAGG
GGTCTTCATCACTCCTCCGAAAAAACCTCCGGATCCGAAAACGTTTCTAGCTAGTTCTCTGTCCTACTCC
290 300 310 320 330 340 350
BspMI
EagI
ATCGTTTCGCATGATTGAACAAGATGGATTGCACGCAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTC
TAGCAAAGCGTACTAACTTGTTCTACCTAACGTGCGTCCAAGAGGCCGGCGAACCCACCTCTCCGATAAG
360 370 380 390 400 410 420
NarI
KasI
GGCTATGACTGGGCACAACAGACAATCGGCTGCTCTGATGCCGCCGTGTTCCGGCTGTCAGCGCAGGGGC
CCGATACTGACCCGTGTTGTCTGTTAGCCGACGAGACTACGGCGGCACAAGGCCGACAGTCGCGTCCCCG
430 440 450 460 470 480 490
BbeI
EheI
DrdI
GCCCGGTTCTTTTTGTCAAGACCGACCTGTCCGGTGCCCTGAATGAACTGCAAGACGAGGCAGCGCGGCT
CGGGCCAAGAAAAACAGTTCTGGCTGGACAGGCCACGGGACTTACTTGACGTTCTGCTCCGTCGCGCCGA
500 510 520 530 540 550 560

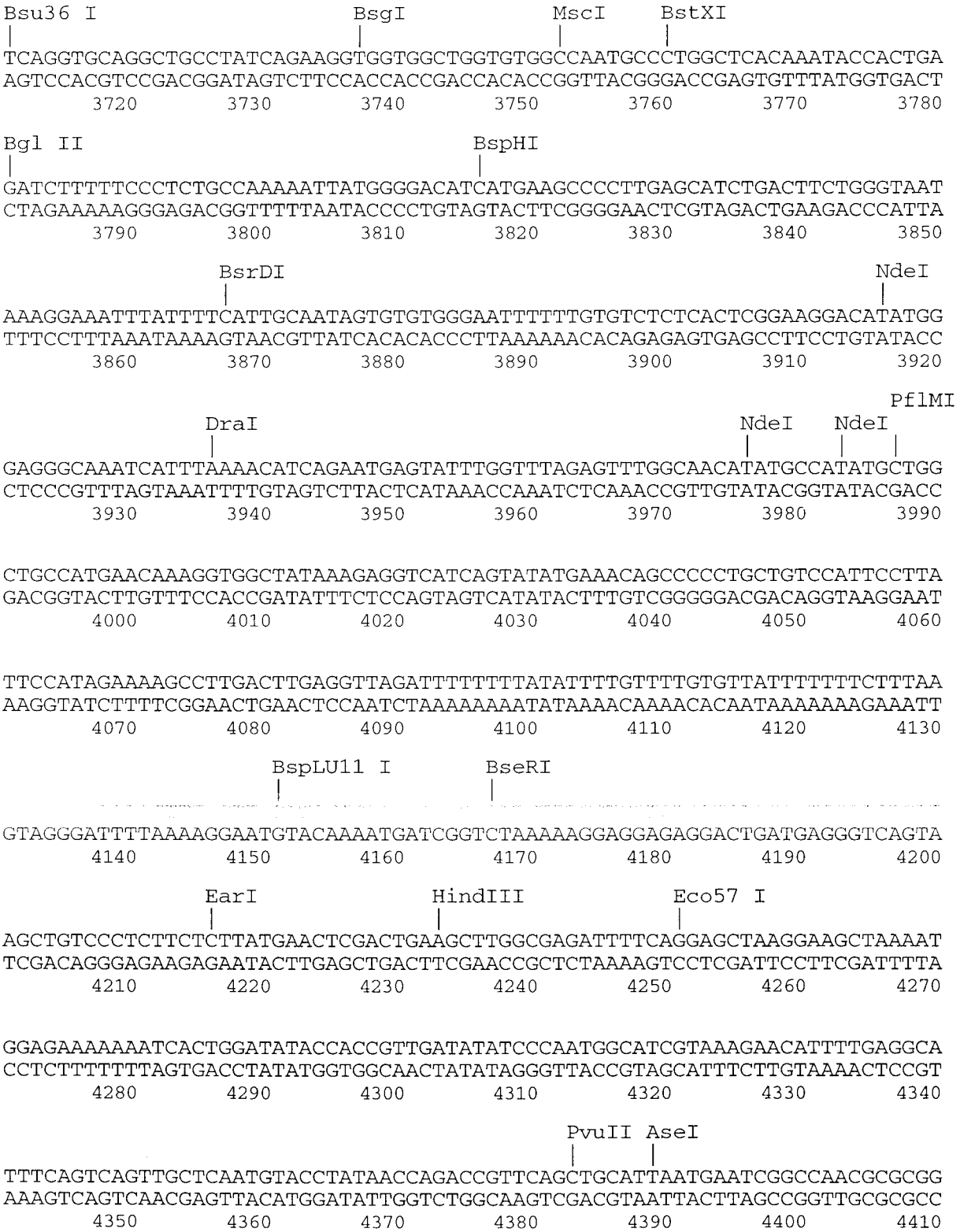

PvuII
MscI
FspI
Tth111 I
ATCGTGGCTGGCCACGACGGGCGTTCCTTGCGCAGCTGTGCTCGACGTTGTCACTGAAGCGGGAAGGGAC
TAGCACCGACCGGTGCTGCCCGCAAGGAACGCGTCGACACGAGCTGCAACAGTGACTTCGCCCTTCCCTG
570 580 590 600 610 620 630
Eco57 I
TGGCTGCTATTGGGCGAAGTGCCGGGGCAGGATCTCCTGTCATCTCACCTTGCTCCTGCCGAGAAAGTAT
ACCGACGATAACCCGCTTCACGGCCCCGTCCTAGAGGACAGTAGAGTGGAACGAGGACGGCTCTTTCATA
640 650 660 670 680 690 700
BsrDI
BspMI
CCATCATGGCTGATGCAATGCGGCGGCTGCATACGCTTGATCCGGCTACCTGCCCATTCGACCACCAAGC
GGTAGTACCGACTACGTTACGCCGCCGACGTATGCGAACTAGGCCGATGGACGGGTAAGCTGGTGGTTCG
710 720 730 740 750 760 770
SapI
EarI
GAAACATCGCATCGAGCGAGCACGTACTCGGATGGAAGCCGGTCTTGTCGATCAGGATGATCTGGACGAA
CTTTGTAGCGTAGCTCGCTCGTGCATGAGCCTACCTTCGGCCAGAACAGCTAGTCCTACTAGACCTGCTT
780 790 800 810 820 830 840
SphI
GAGCATCAGGGGCTCGCGCCAGCCGAACTGTTCGCCAGGCTCAAGGCGAGCATGCCCGACGGCGAGGATC
CTCGTAGTCCCCGAGCGCGGTCGGCTTGACAAGCGGTCCGAGTTCCGCTCGTACGGGCTGCCGCTCCTAG
850 860 870 880 890 900 910
NcoI
TCGTCGTGACCCATGGCGATGCCTGCTTGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTCAT
AGCAGCACTGGGTACCGCTACGGACGAACGGCTTATAGTACCACCTTTTACCGGCGAAAAGACCTAAGTA
920 930 940 950 960 970 980
NaeI
NgoMI
RsrII
SapI
EarI
CGACTGTGGCCGGCTGGGTGTGGCGGACCGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAA
GCTGACACCGGCCGACCCACACCGCCTGGCGATAGTCCTGTATCGCAACCGATGGGCACTATAACGACTT
990 1000 1010 1020 1030 1040 1050
Eco57 I
BssSI
BsrBI
GAGCTTGGCGGCGAATGGGCTGACCGCTTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTCGCAGCGCA
CTCGAACCGCCGCTTACCCGACTGGCGAAGGAGCACGAAATGCCATAGCGGCGAGGGCTAAGCGTCGCGT
1060 1070 1080 1090 1100 1110 1120
BsrBI
BstBI
TCGCCTTCTATCGCCTTCTTGACGAGTTCTTCTGAGCGGGACTCTGGGGTTCGAAATGACCGACCAAGCG
AGCGGAAGATAGCGGAAGAACTGCTCAAGAAGACTCGCCCTGAGACCCCAAGCTTTACTGGCTGGTTCGC
1130 1140 1150 1160 1170 1180 1190


BssSI
BspMI
ACGCCCAACCTGCCATCACGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGGTTGGGCTTCGGAATCG
TGCGGGTTGGACGGTAGTGCTCTAAAGCTAAGGTGGCGGCGGAAGATACTTTCCAACCCGAAGCCTTAGC
1200 1210 1220 1230 1240 1250 1260
NaeI
NgoMI
BpmI
BpmI
AvrII
TTTTCCGGGACGCCGGCTGGATGATCCTCCAGCGCGGGGATCTCATGCTGGAGTTCTTCGCCCACCCTAG
AAAAGGCCCTGCGGCCGACCTACTAGGAGGTCGCGCCCCTAGAGTACGACCTCAAGAAGCGGGTGGGATC
1270 1280 1290 1300 1310 1320 1330
GGGGAGGCTAACTGAAACACGGAAGGAGACAATACCGGAAGGAACCCGCGCTATGACGGCAATAAAAAGA
CCCCTCCGATTGACTTTGTGCCTTCCTCTGTTATGGCCTTCCTTGGGCGCGATACTGCCGTTATTTTTCT
1340 1350 1360 1370 1380 1390 1400
BseRI
BsrDI
CAGAATAAAACGCACGGTGTTGGGTCGTTTGTTTCGAGGAGCTTGGCCCATTGCATACGTTGTATCCATA
GTCTTATTTTGCGTGCCACAACCCAGCAAACAAAGCTCCTCGAACCGGGTAACGTATGCAACATAGGTAT
1410 1420 1430 1440 1450 1460 1470
BsrGI
SpeI
TCATAATATGTACATTTATATTGGCTCATGTCCAACATTACCGCCATGTTGACATTGATTATTGACTAGT
AGTATTATACATGTAAATATAACCGAGTACAGGTTGTAATGGCGGTACAACTGTAACTAATAACTGATCA
1480 1490 1500 1510 1520 1530 1540
AseI
TATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTA
ATAATTATCATTAGTTAATGCCCCAGTAATCAAGTATCGGGTATATACCTCAAGGCGCAATGTATTGAAT
Bgl I
AatII
CGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCC
GCCATTTACCGGGCGGACCGACTGGCGGGTTGCTGGGGGCGGGTAACTGCAGTTATTACTGCATACAAGG
1620 1630 1640 1650 1660 1670 1680
AatII
Bgl I
CATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGCTAAACTGCCCACTTG
GTATCATTGCGGTTATCCCTGAAAGGTAACTGCAGTTACCCACCTCATAAATGCGATTTGACGGGTGAAC
1690 1700 1710 1720 1730 1740 1750
NdeI
AatII
Bgl I
GCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCT
CGTCATGTAGTTCACATAGTATACGGTTCATGCGGGGGATAACTGCAGTTACTGCCATTTACCGGGCGGA
1760 1770 1780 1790 1800 1810 1820


SnaBI
GGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGC
CCGTAATACGGGTCATGTACTGGAATACCCTGAAAGGATGAACCGTCATGTAGATGCATAATCAGTAGCG
1830 1840 1850 1860 1870 1880 1890
NcoI
TATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCACGGGGATTT
ATAATGGTACCACTACGCCAAAACCGTCATGTAGTTACCCGCACCTATCGCCAAACTGAGTGCCCCTAAA
1900 1910 1920 1930 1940 1950 1960
AatII
CCAAGTCTCCACCCCATTGACGTCAATGGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAAT
GGTTCAGAGGTGGGGTAACTGCAGTTACCCTCAAACAAAACCGTGGTTTTAGTTGCCCTGAAAGGTTTTA
1970 1980 1990 2000 2010 2020 2030
GTCGTAACAACTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAG
CAGCATTGTTGAGGCGGGGTAACTGCGTTTACCCGCCATCCGCACATGCCACCCTCCAGATATATTCGTC
2040 2050 2060 2070 2080 2090 2100
SacI
Ecl136 II
BsmBI
BpmI
AGCTCGTTTAGTGAACCGTCAGATCGCCTGGAGACGCCATCCACGCTGTTTTGACCTCCATAGAAGACAC
TCGAGCAAATCACTTGGCAGTCTAGCGGACCTCTGCGGTAGGTGCGACAAAACTGGAGGTATCTTCTGTG
2110 2120 2130 2140 2150 2160 2170
SacII
BbsI
Bgl I
EcoRI
XbaI
CGGGACCGATCCAGCCTCCGCGGCCCCGAATTCACCATGTCTAGATTAGATAAAAGTAAAGCTGATTAAC
GCCCTGGCTAGGTCGGAGGCGCCGGGGCTTAAGTGGTACAGATCTAATCTATTTTCATTTCGACTAATTG
2180 2190 2200 2210 2220 2230 2240
AGCGCATTAGAGCTGCTTAATGAGGTCGGAATCGAAGGTTTAACAACCCGTAAACTCGCCCAGAAGCTAG
TCGCGTAATCTCGACGAATTACTCCAGCCTTAGCTTCCAAATTGTTGGGCATTTGAGCGGGTCTTCGATC
2250 2260 2270 2280 2290 2300 2310
FspI
Pml I
GTGTAGAGCAGCCTACATTGTATTGGCACGTGCGCAACAAGCAGACTCTTATGAACATGCTTTCAGAGGC
CACATCTCGTCGGATGTAACATAACCGTGCACGCGTTGTTCGTCTGAGAATACTTGTACGAAAGTCTCCG
2320 2330 2340 2350 2360 2370 2380
BpmI
AATACTGGCGAAGCATCACACCCGTTCAGCACCGTTACCGACTGAGAGTTGGCAGCAGTTTCTCCAGGAA
TTATGACCGCTTCGTAGTGTGGGCAAGTCGTGGCAATGGCTGACTCTCAACCGTCGTCAAAGAGGTCCTT
2390 2400 2410 2420 2430 2440 2450

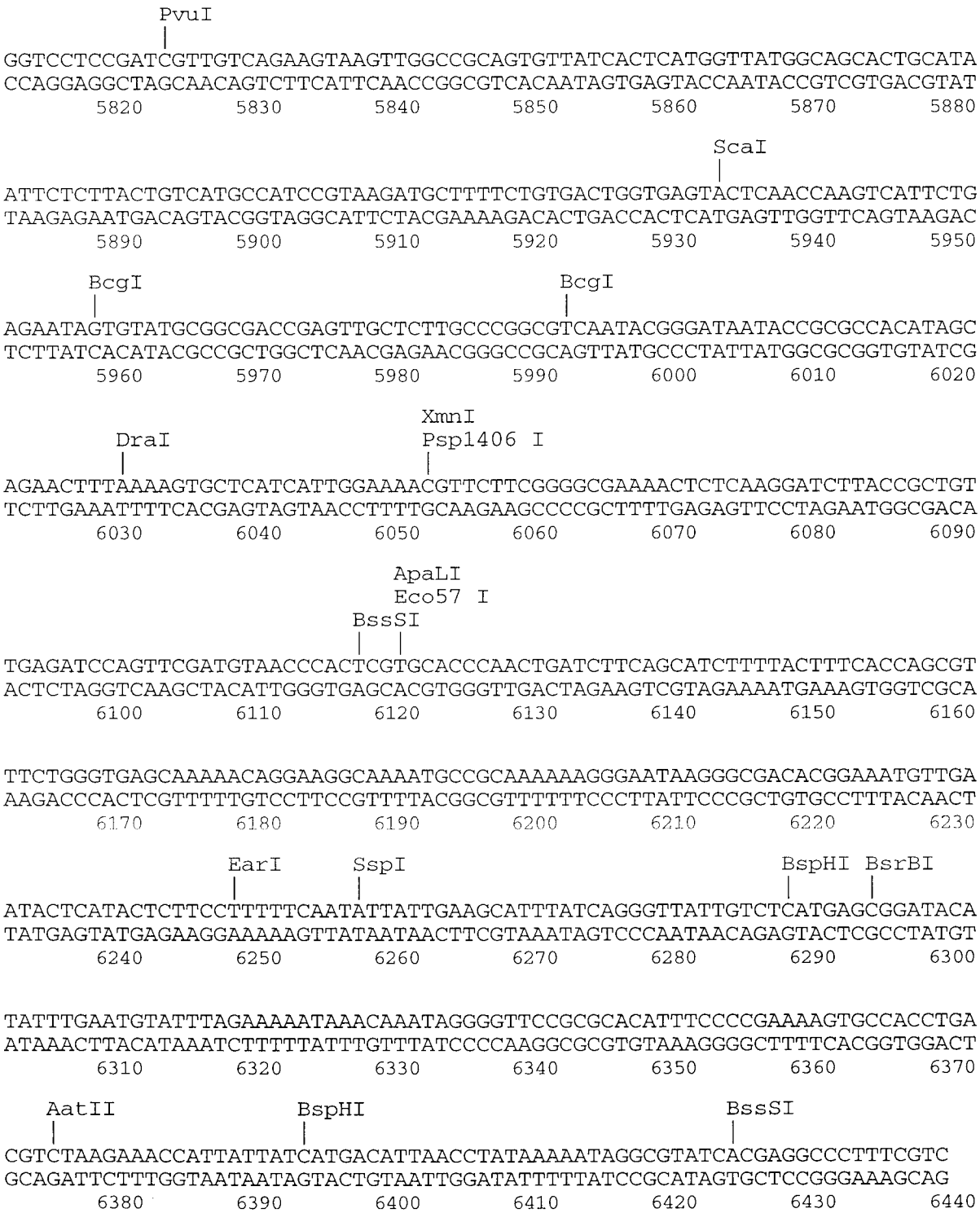

BstXI
PpuMI
AATGCTCTGAGTTTCCGTAAAGCATTACTGGTCCATCGTGATGGAGCCCGATTGCATATAGGGACCTCTC
TTACGAGACTCAAAGGCATTTCGTAATGACCAGGTAGCACTACCTCGGGCTAACGTATATCCCTGGAGAG
2460 2470 2480 2490 2500 2510 2520
BcgI
CTACGCCCCCCCAGTTTGAACAAGCAGAGGCGCAACTACGCTGTCTATGCGATGCAGGGTTTTCGGTCGA
GATGCGGGGGGGTCAAACTTGTTCGTCTCCGCGTTGATGCGACAGATACGCTACGTCCCAAAAGCCAGCT
2530 2540 2550 2560 2570 2580 2590
BcgI
BseRI
BsgI
GGAGGCTCTTTTCATTCTGCAATCTATCAGCCATTTTACGTTGGGTGCAGTATTAGAGGAGCAAGCAACA
CCTCCGAGAAAAGTAAGACGTTAGATAGTCGGTAAAATGCAACCCACGTCATAATCTCCTCGTTCGTTGT
2600 2610 2620 2630 2640 2650 2660
BseRI
BsgI
SspI
AACCAGATAGAAAATAATCATGTGATAGACGCTGCACCACCATTATTACAAGAGGCATTTAATATTCAGG
TTGGTCTATCTTTTATTAGTACACTATCTGCGACGTGGTGGTAATAATGTTCTCCGTAAATTATAAGTCC
2670 2680 2690 2700 2710 2720 2730
SspI
BsgI
AseI
CGAGAACCTCTGCTGAAATGGCCTTCCATTTCGGGCTGAAATCATTAATATTTGGATTTTCTGCACAGTT
GCTCTTGGAGACGACTTTACCGGAAGGTAAAGCCCGACTTTAGTAATTATAAACCTAAAAGACGTGTCAA
2740 2750 2760 2770 2780 2790 2800
EarI
NheI
AGATGAAAAAAAGCATACACCCATTGAGGATGGTAATAAACCAAAAAAGAAGAGAAAGCTAGCAGTGTCA
TCTACTTTTTTTCGTATGTGGGTAACTCCTACCATTATTTGGTTTTTTCTTCTCTTTCGATCGTCACAGT
2810 2820 2830 2840 2850 2860 2870
GTGACATTTGAAGATGTGGCTGTGCTCTTTACTCGGGACGAGTGGAAGAAGCTGGATCTGTCTCAGAGAA
CACTGTAAACTTCTACACCGACACGAGAAATGAGCCCTGCTCACCTTCTTCGACCTAGACAGAGTCTCTT
2880 2890 2900 2910 2920 2930 2940
NcoI
BpmI
Bgl I
GCCTGTACCGTGAGGTGATGCTGGAGAATTACAGCAACCTGGCCTCCATGGCAGGATTCCTGTTTACCAA
CGGACATGGCACTCCACTACGACCTCTTAATGTCGTTGGACCGGAGGTACCGTCCTAAGGACAAATGGTT
2950 2960 2970 2980 2990 3000 3010
ClaI
BamHI
Eco57 I
ACCAAANGGTGATCTCCCTGTTGCAGCAAGGAGAGGATCCCTGGTAAATCGATCTGAGAACTTCAGGGTG
TGGTTTNCCACTAGAGGGACAACGTCGTTCCTCTCCTAGGGACCATTTAGCTAGACTCTTGAAGTCCCAC
3020 3030 3040 3050 3060 3070 3080


PpuMI
AGTTTGGGGACCCTTGATTGTTCTTTCTTTTTTCGCTATTGTAAAATTCATGTTATATGGAGGGGGCAAA
TCAAACCCCTGGGAACTAACAAGAAAGAAAAAAGCGATAACATTTTAAGTACAATATACCTCCCCCGTTT
3090 3100 3110 3120 3130 3140 3150
NcoI
BspHI
GTTTTCAGGGTGTTGTTTAGAATGGGAAGATGTCCCTTGTATCACCATGGACCCTCATGATAATTTTGTT
CAAAAGTCCCACAACAAATCTTACCCTTCTACAGGGAACATAGTGGTACCTGGGAGTACTATTAAAACAA
3160 3170 3180 3190 3200 3210 3220
BseRI
TCTTTCACTTTCTACTCTGTTGACAACCATTGTCTCCTCTTATTTTCTTTTCATTTTCTGTAACTTTTTC
AGAAAGTGAAAGATGAGACAACTGTTGGTAACAGAGGAGAATAAAAGAAAAGTAAAAGACATTGAAAAAG
3230 3240 3250 3260 3270 3280 3290
DraI
ScaI
GTTAAACTTTAGCTTGCATTTGTAACGAATTTTTAAATTCACTTTCGTTTATTTGTCAGATTGTAAGTAC
CAATTTGAAATCGAACGTAAACATTGCTTAAAAATTTAAGTGAAAGCAAATAAACAGTCTAACATTCATG
3300 3310 3320 3330 3340 3350 3360
Eco57 I
TTTCTCTAATCACTTTTTTTTCAAGGCAATCAGGGTATATTATATTGTACTTCAGCACAGTTTTAGAGAA
AAAGAGATTAGTGAAAAAAAAGTTCCGTTAGTCCCATATAATATAACATGAAGTCGTGTCAAAATCTCTT
3370 3380 3390 3400 3410 3420 3430
MfeI
SspI
SspI
CAATTGTTATAATTAAATGATAAGGTAGAATATTTCTGCATATAAATTCTGGCTGGCGTGGAAATATTCT
GTTAACAATATTAATTTACTATTCCATCTTATAAAGACGTATATTTAAGACCGACCGCACCTTTATAAGA
3440 3450 3460 3470 3480 3490 3500
ATAACCATCTTTGTTGATGTGGGACCAGTAGTAGGACGGAAAGAGAAATACCAATGTTACTATATGTGNC
3510 3520 3530 3540 3550 3560 3570
ApaI
Bsp120 I
TTTGAGATGAGGATAAAATACTCTGAGTCCAAACCGGGCCCCTCTGCTAACCATGTTCATGCCTTCTTCT
AAACTCTACTCCTATTTTATGAGACTCAGGTTTGGCCCGGGGAGACGATTGGTACAAGTACGGAAGAAGA
3580 3590 3600 3610 3620 3630 3640
EcoRI
AlwNI
BseRI
TTTTCCTACAGCTCCTGGGCAACGTGCTGGTTGTTGTGCTGTCTCATCATTTTGGCAAAGAATTCACTCC
AAAAGGATGTCGAGGACCCGTTGCACGACCAACAACACGACAGAGTAGTAAAACCGTTTCTTAAGTGAGG
3650 3660 3670 3680 3690 3700 3710


Bsu36 I
BsgI
MscI
BstXI
TCAGGTGCAGGCTGCCTATCAGAAGGTGGTGGCTGGTGTGGCCAATGCCCTGGCTCACAAATACCACTGA
AGTCCACGTCCGACGGATAGTCTTCCACCACCGACCACACCGGTTACGGGACCGAGTGTTTATGGTGACT
3720 3730 3740 3750 3760 3770 3780
Bgl II
BspHI
GATCTTTTTCCCTCTGCCAAAAATTATGGGGACATCATGAAGCCCCTTGAGCATCTGACTTCTGGGTAAT
CTAGAAAAAGGGAGACGGTTTTTAATACCCCTGTAGTACTTCGGGGAACTCGTAGACTGAAGACCCATTA
3790 3800 3810 3820 3830 3840 3850
BsrDI
NdeI
AAAGGAAATTTATTTTCATTGCAATAGTGTGTGGGAATTTTTTGTGTCTCTCACTCGGAAGGACATATGG
TTTCCTTTAAATAAAAGTAACGTTATCACACACCCTTAAAAAACACAGAGAGTGAGCCTTCCTGTATACC
3860 3870 3880 3890 3900 3910 3920
PflMI
DraI
NdeI
NdeI
GAGGGCAAATCATTTAAAACATCAGAATGAGTATTTGGTTTAGAGTTTGGCAACATATGCCATATGCTGG
CTCCCGTTTAGTAAATTTTGTAGTCTTACTCATAAACCAAATCTCAAACCGTTGTATACGGTATACGACC
3930 3940 3950 3960 3970 3980 3990
CTGCCATGAACAAAGGTGGCTATAAAGAGGTCATCAGTATATGAAACAGCCCCCTGCTGTCCATTCCTTA
GACGGTACTTGTTTCCACCGATATTTCTCCAGTAGTCATATACTTTGTCGGGGGACGACAGGTAAGGAAT
4000 4010 4020 4030 4040 4050 4060
TTCCATAGAAAAGCCTTGACTTGAGGTTAGATTTTTTTTATATTTTGTTTTGTGTTATTTTTTTCTTTAA
AAGGTATCTTTTCGGAACTGAACTCCAATCTAAAAAAAAATATAAAACAAAACACAATAAAAAAAGAAATT
4070 4080 4090 4100 4110 4120 4130
BspLU11 I
BseRI
GTAGGGATTTTAAAAGGAATGTACAAAATGATCGGTCTAAAAAGGAGGAGAGGACTGATGAGGGTCAGTA
4140 4150 4160 4170 4180 4190 4200
EarI
HindIII
Eco57 I
AGCTGTCCCTCTTCTCTTATGAACTCGACTGAAGCTTGGCGAGATTTTCAGGAGCTAAGGAAGCTAAAAT
TCGACAGGGAGAAGAGAATACTTGAGCTGACTTCGAACCGCTCTAAAAGTCCTCGATTCCTTCGATTTTA
4210 4220 4230 4240 4250 4260 4270
GGAGAAAAAAATCACTGGATATACCACCGTTGATATATCCCAATGGCATCGTAAAGAACATTTTGAGGCA
CCTCTTTTTTTTAGTGACCTATATGGTGGCAACTATATAGGGTTACCGTAGCATTTCTTGTAAAACTCCGT
4280 4290 4300 4310 4320 4330 4340
PvuII AseI
TTTCAGTCAGTTGCTCAATGTACCTATAACCAGACCGTTCAGCTGCATTAATGAATCGGCCAACGCGCGG
AAAGTCAGTCAACGAGTTACATGGATATTGGTCTGGCAAGTCGACGTAATTACTTAGCCGGTTGCGCGCC
4350 4360 4370 4380 4390 4400 4410

```
                                    SapI
                                    EarI
                                     |
GGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCG
CCTCTCCGCCAAACGCATAACCCGCGAGAAGGCGAAGGAGCGAGTGACTGAGCGACGCGAGCCAGCAAGC
      4420        4430        4440        4450        4460        4470        4480

           BsrBI
            |
GCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCA
CGACGCCGCTCGCCATAGTCGAGTGAGTTTCCGCCATTATGCCAATAGGTGTCTTAGTCCCCTATTGCGT
      4490        4500        4510        4520        4530        4540        4550

         BspLU11 I
          |
GGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTT
CCTTTCTTGTACACTCGTTTTCCGGTCGTTTTCCGGTCCTTGGCATTTTTCCGGCGCAACGACCGCAAAA
      4560        4570        4580        4590        4600        4610        4620

                                                    DrdI
                                                     |
TCCATAGGCTCCGCCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGAC
AGGTATCCGAGGCGGGGGGACTGCTCGTAGTGTTTTTAGCTGCGAGTTCAGTCTCCACCGCTTTGGGCTG
      4630        4640        4650        4660        4670        4680        4690

                                           BssSI
                                            |
AGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCG
TCCTGATATTTCTATGGTCCGCAAAGGGGGACCTTCGAGGGAGCACGCGAGAGGACAAGGCTGGGACGGC
      4700        4710        4720        4730        4740        4750        4760

CTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCAATGCTCACGCTGTAGGT
GAATGGCCTATGGACAGGCGGAAAGAGGGAAGCCCTTCGCACCGCGAAAGAGTTACGAGTGCGACATCCA
      4770        4780        4790        4800        4810        4820        4830

                                                ApaLI
                                                 |
ATCTCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACCG
TAGAGTCAAGCCACATCCAGCAAGCGAGGTTCGACCCGACACACGTGCTTGGGGGGCAAGTCGGGCTGGC
      4840        4850        4860        4870        4880        4890        4900

CTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCA
GACGCGGAATAGGCCATTGATAGCAGAACTCAGGTTGGGCCATTCTGTGCTGAATAGCGGTGACCGTCGT
      4910        4920        4930        4940        4950        4960        4970

    AlwNI
     |
GCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTA
CGGTGACCATTGTCCTAATCGTCTCGCTCCATACATCCGCCACGATGTCTCAAGAACTTCACCACCGGAT
      4980        4990        5000        5010        5020        5030        5040

                                                                    Eco57 I
                                                                     |
ACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAG
TGATGCCGATGTGATCTTCCTGTCATAAACCATAGACGCGAGACGACTTCGGTCAATGGAAGCCTTTTTC
      5050        5060        5070        5080        5090        5100        5110
```

```
AGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCAG
TCAACCATCGAGAACTAGGCCGTTTGTTTGGTGGCGACCATCGCCACCAAAAAAACAAACGTTCGTCGTC
       5120       5130       5140       5150       5160       5170       5180

ATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGA
TAATGCGCGTCTTTTTTTCCTAGAGTTCTTCTAGGAAACTAGAAAAGATGCCCCAGACTGCGAGTCACCT
       5190       5200       5210       5220       5230       5240       5250

                                BspHI                                   DraI
                                  |                                       |
ACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAA
TGCTTTTGAGTGCAATTCCCTAAAACCAGTACTCTAATAGTTTTTCCTAGAAGTGGATCTAGGAAAATTT
       5260       5270       5280       5290       5300       5310       5320

                  DraI
                    |
TTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTA
AATTTTTACTTCAAAATTTAGTTAGATTTCATATATACTCATTTGAACCAGACTGTCAATGGTTACGAAT
       5330       5340       5350       5360       5370       5380       5390

                                                                  AhdI
                                                                    |
ATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGT
TAGTCACTCCGTGGATAGAGTCGCTAGACAGATAAAGCAAGTAGGTATCAACGGACTGAGGGGCAGCACA
       5400       5410       5420       5430       5440       5450       5460

                                                      BsaI
                                                      BsrDI     BpmI
                                                        |         |
AGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTC
TCTATTGATGCTATGCCCTCCCGAATGGTAGACCGGGGTCACGACGTTACTATGGCGCTCTGGGTGCGAG
       5470       5480       5490       5500       5510       5520       5530

                                           Bgl I
                                             |
TGGCCGAGGTCTAAATAGTCGTTATTTGGTCGGTCGGCCTTCCCGGCTCGCGTCTTCACCAGGACGTTGA
       5540       5550       5560       5570       5580       5590       5600

                          AseI
                            |
TTATCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTT
AATAGGCGGAGGTAGGTCAGATAATTAACAACGGCCCTTCGATCTCATTCATCAAGCGGTCAATTATCAA
       5610       5620       5630       5640       5650       5660       5670

        Psp1406 I
   FspI          BsrDI
    |    |         |
TGCGCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTCACGCTCGTCGTTTGGTATGGCTTCATTCAG
ACGCGTTGCAACAACGGTAACGATGTCCGTAGCACCACAGTGCGAGCAGCAAACCATACCGAAGTAAGTC
       5680       5690       5700       5710       5720       5730       5740

CTCCGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTC
GAGGCCAAGGGTTGCTAGTTCCGCTCAATGTACTAGGGGGTACAACACGTTTTTTCGCCAATCGAGGAAG
       5750       5760       5770       5780       5790       5800       5810
```


PvuI
GGTCCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATA
CCAGGAGGCTAGCAACAGTCTTCATTCAACCGGCGTCACAATAGTGAGTACCAATACCGTCGTGACGTAT
5820 5830 5840 5850 5860 5870 5880
ScaI
ATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTG
TAAGAGAATGACAGTACGGTAGGCATTCTACGAAAAGACACTGACCACTCATGAGTTGGTTCAGTAAGAC
5890 5900 5910 5920 5930 5940 5950
BcgI
BcgI
AGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGC
TCTTATCACATACGCCGCTGGCTCAACGAGAACGGGCCGCAGTTATGCCCTATTATGGCGCGGTGTATCG
5960 5970 5980 5990 6000 6010 6020
XmnI
DraI
Psp1406 I
AGAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACCGCTGT
TCTTGAAATTTTCACGAGTAGTAACCTTTTGCAAGAAGCCCCGCTTTTGAGAGTTCCTAGAATGGCGACA
6030 6040 6050 6060 6070 6080 6090
ApaLI
Eco57 I
BssSI
TGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTCACCAGCGT
ACTCTAGGTCAAGCTACATTGGGTGAGCACGTGGGTTGACTAGAAGTCGTAGAAAATGAAAGTGGTCGCA
6100 6110 6120 6130 6140 6150 6160
TTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGTTGA
AAGACCCACTCGTTTTTGTCCTTCCGTTTTACGGCGTTTTTTCCCTTATTCCCGCTGTGCCTTTACAACT
6170 6180 6190 6200 6210 6220 6230
EarI
SspI
BspHI
BsrBI
ATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACA
TATGAGTATGAGAAGGAAAAAGTTATAATAACTTCGTAAATAGTCCCAATAACAGAGTACTCGCCTATGT
6240 6250 6260 6270 6280 6290 6300
TATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGA
ATAAACTTACATAAATCTTTTTATTTGTTTATCCCCAAGGCGCGTGTAAAGGGGCTTTTCACGGTGGACT
6310 6320 6330 6340 6350 6360 6370
AatII
BspHI
BssSI
CGTCTAAGAAACCATTATTATCATGACATTAACCTATAAAAATAGGCGTATCACGAGGCCCTTTCGTC
GCAGATTCTTTGGTAATAATAGTACTGTAATTGGATATTTTTATCCGCATAGTGCTCCGGGAAAGCAG
6380 6390 6400 6410 6420 6430 6440