

AseI
|

TAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCGCGTTACATAA
ATCAATAATTATCATTAGTTAATGCCCCAGTAATCAAGTATCGGGTATATACCTCAAGGCGCAATGTATT
10 20 30 40 50 60 70

Bgl I | AatII |

CTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCCATTGACGTCAATAATGACGTATG
GAATGCCATTTACCGGGCGGACCGACTGGCGGGTTGCTGGGGGCGGGTAACTGCAGTTATTACTGCATAC
80 90 100 110 120 130 140

AatII
|

TTCCCATAGTAACGCCAATAGGGACTTTCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCA
AAGGTATCATTGCGGTTATCCCTGAAAGGTAAGTGCAGTTACCCACCTCATAAATGCCATTTGACGGGT
150 160 170 180 190 200 210

Bgl I | NdeI | AatII |

CTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCC
GAACCGTCATGTAGTTCACATAGTATACGGTTCATGCGGGGGATAACTGCAGTTACTGCCATTTACCGGG
220 230 240 250 260 270 280

Bgl I | SnaBI |

GCCTGGCATTATGCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCA
CGGACCGTAATACGGGTCATGTACTGGAATACCCTGAAAGGATGAACCGTCATGTAGATGCATAATCAGT
290 300 310 320 330 340 350

NcoI
|

TCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTACTCACGGGG
AGCGATAATGGTACCACTACGCCAAAACCGTCATGTAGTTACCCGCACCTATCGCCAAAACCTGAGTGCCCC
360 370 380 390 400 410 420

AatII
|

ATTTCCAAGTCTCCACCCCATGACGTCAATGGGAGTTTGTTTTGGCACCAAATCAACGGGACTTTCCA
TAAAGGTTTCAGAGGTGGGGTAACTGCAGTTACCCTCAAACAAAACCGTGGTTTTAGTTGCCCTGAAAGGT
430 440 450 460 470 480 490

AAATGTCGTAACAAC'TCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAA
TTTACAGCATTGTTGAGGCGGGGTAAGTGCAGTTTACCCGCCATCCGCACATGCCACCCTCCAGATATATT
500 510 520 530 540 550 560

EcoRI
BstBI
HindIII
XhoI SacI
NheI Eco47 III Bgl II Ecl1136 II

GCAGAGCTGGTTT TAGTGAACCGTCAGATCCGCTAGCGCTACCGGACTCAGATCTCGAGCTCAAGCTTCGA
CGTCTCGACCAAATCACTTGGCAGTCTAGGCGATCGCGATGGCCTGAGTCTAGAGCTCGAGTTCGAAGCT

570 580 590 600 610 620 630

BamHI
Bsp120 I
SacII SmaI
Sal I KpnI ApaI
PstI Asp718 I XmaI Psp1406 I

ATTCTGCAGTCGACGGTACCGCGGGCCCGGGATCCGCCCTCTCCCTCCCCCCCCCTAACGTTACTGGC
TAAGACGTCAGCTGCCATGGCGCCCGGGCCCTAGGCGGGGAGAGGGAGGGGGGGGATTGCAATGACCG

640 650 660 670 680 690 700

CGAAGCCGCTTGAATAAGGCCGGTGTGCGTTTGTCTATATGTTATTTTCCACCATATTGCCGTCTTTTG
GCTTCGGCGAACCTTATTCCGGCCACACGAAACAGATATAACAATAAAAGGTGGTATAACGGCAGAAAAC

710 720 730 740 750 760 770

Bsp120 I
BsrDI ApaI BbsI BsmI AvrII

GCAATGTGAGGGCCCGGAAACCTGGCCCTGTCTTCTTGACGAGCATTCCTAGGGGTCTTTCCCCTCTCGC
CGTTACACTCCCGGGCCTTTGGACCGGGACAGAAGAACTGCTCGTAAGGATCCCAGAAAGGGGAGAGCG

780 790 800 810 820 830 840

BsmI XmnI HindIII BbsI

CAAAGGAATGCAAGGTCTGTTGAATGTCGTGAAGGAAGCAGTTCCTCTGGAAGCTTCTTGAAGACAAACA
GTTTCCTTACGTTCCAGACAACCTTACAGCACTTCCTTCGTCAAGGAGACCTTCGAAGAACTTCTGTTTGT

850 860 870 880 890 900 910

Bgl I

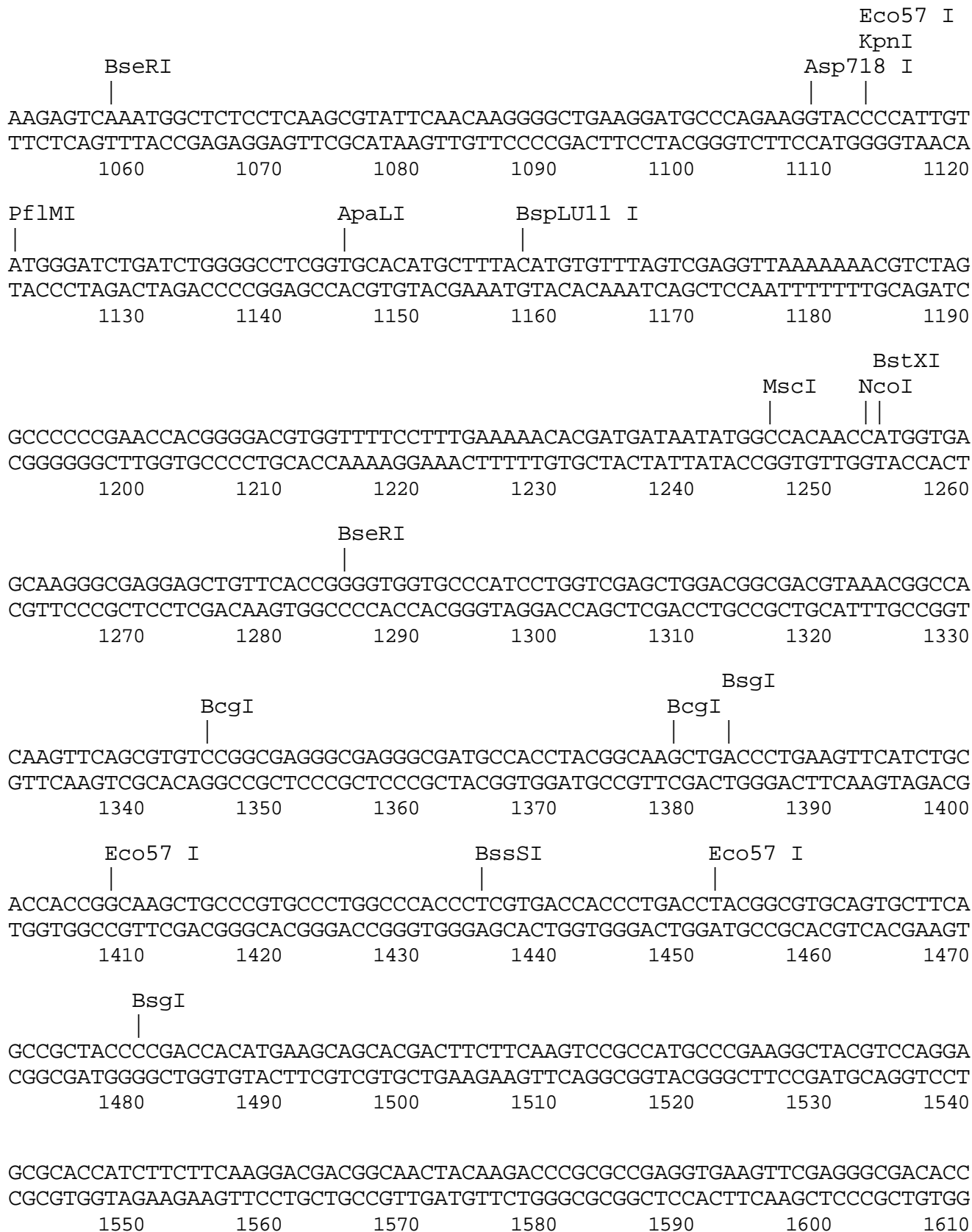
ACGTCTGTAGCGACCCTTTGCAGGCAGCGGAACCCCCACCTGGCGACAGGTGCCTCTGCGGCCAAAAGC
TGCAGACATCGCTGGGAAACGTCCGTCGCCTTGGGGGTGGACCGCTGTCCACGGAGACGCCGTTTTTCG

920 930 940 950 960 970 980

Pml I BspMI DraIII

CACGTGTATAAGATAACCTGCAAAGGCGGCACAACCCAGTGCCACGTTGTGAGTTGGATAGTTGTGGA
GTGCACATATTCTATGTGGACGTTTCCGCCGTGTTGGGGTACGGTGCAACACTCAACCTATCAACACCT

990 1000 1010 1020 1030 1040 1050



Eco57 I
|

CTGGTGAACCGCATCGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGCTGG
GACCACTTGGCGTAGCTCGACTTCCCCTAGCTGAAGTTCCTCCTGCCGTTGTAGGACCCCGTGTTCGACC

1620 1630 1640 1650 1660 1670 1680

BpmI
|

AGTACAACACTACAACAGCCACAACGTCTATATCATGGCCGACAAGCAGAAGAACGGCATCAAGGTGAACTT
TCATGTTGATGTTGTCGGTGTTCAGATATAGTACCGGCTGTTCTTCTTGCCGTAGTTCCACTTGAA

1690 1700 1710 1720 1730 1740 1750

BsgI
|

CAAGATCCGCCACAACATCGAGGACGGCAGCGTGCAGCTCGCCGACCACTACCAGCAGAACACCCCATC
GTTCTAGGCGGTGTTGTAGCTCCTGCCGTGCGACGTGAGCGGCTGGTGTATGGTCGTCTTGTGGGGGTAG

1760 1770 1780 1790 1800 1810 1820

GGCGACGGCCCCGTGCTGCTGCCCCGACAACCACTACCTGAGCACCCAGTCCGCCCTGAGCAAAGACCCCA
CCGCTGCCGGGGCACGACGACGGGCTGTTGGTGATGGACTCGTGGGTGAGGCGGGACTCGTTTCTGGGGT

1830 1840 1850 1860 1870 1880 1890

BpmI
|

ACGAGAAGCGCGATCACATGGTCTGCTGGAGTTCGTGACCGCCGCCGGGATCACTCTCGGCATGGACGA
TGCTCTTCGCGCTAGTGTACCAGGACGACCTCAAGCACTGGCGGCCGCCCTAGTGAGAGCCGTACCTGCT

1900 1910 1920 1930 1940 1950 1960

NotI
|

BsrGI EagI XbaI BsaBI

| | | |

GCTGTACAAGTAAAGCGGCCGCGACTCTAGATCATAATCAGCCATAACCACATTTGTAGAGGTTTTACTTG
CGACATGTTTCAATTCGCCGGCGCTGAGATCTAGTATTAGTCCGGTATGGTGTAACATCTCCAAAATGAAC

1970 1980 1990 2000 2010 2020 2030

DraI BsmI MfeI HpaI

| | | |

CTTTAAAAAACCTCCCACACCTCCCCCTGAACCTGAAACATAAAATGAATGCAATTGTTGTTGTTAACTT
GAAATTTTTTGGAGGGTGTGGAGGGGGACTTGGACTTTGTATTTTACTTACGTTAACAACAACAATTGAA

2040 2050 2060 2070 2080 2090 2100

GTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACAAATAAAGCATTTTTTT
CAAATAACGTCGAATATTACCAATGTTTATTTTCGTTATCGTAGTGTAAAGTGTTTATTTTCGTAAAAAA

2110 2120 2130 2140 2150 2160 2170

BsmI Afl II

| |

TCACTGCATTCTAGTTGTGGTTTGTCCAACTCATCAATGTATCTTAAGGCGTAAATTGTAAGCGTTAAT
AGTGACGTAAGATCAACACCAACAGTTTTGAGTAGTTACATAGAATTCCGCATTTAACATTCGCAATTA

2180 2190 2200 2210 2220 2230 2240

SspI

|
 ATTTTGTAAATTCGCGTTAAATTTTGTAAATCAGCTCATTTTTTAACCAATAGGCCGAAATCGGCA
 TAAAACAATTTTAAGCGCAATTTAAAAACAATTTAGTCGAGTAAAAAATTGGTTATCCGGCTTTAGCCGT
 2250 2260 2270 2280 2290 2300 2310

AAATCCCTTATAAATCAAAGAATAGACCGAGATAGGGTTGAGTGTGTTCCAGTTTGAACAAGAGTCC
 TTTAGGGAATATTTAGTTTTCTTATCTGGCTCTATCCCAACTCACACAAGGTCAAACCTTGTTCAGG
 2320 2330 2340 2350 2360 2370 2380

DrdI

DraIII

| |
 ACTATTAAGAACGTGGACTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCCACTACGT
 TGATAATTTCTTGACACCTGAGGTTGCAGTTTCCCGCTTTTGGCAGATAGTCCCGCTACCGGGTGATGCA
 2390 2400 2410 2420 2430 2440 2450

GAACCATCACCTAATCAAGTTTTTTGGGGTCGAGGTGCCGTAAAGCACTAAATCGGAACCTAAAGGGA
 CTTGGTAGTGGGATTAGTTCAAAAAACCCAGCTCCACGGCATTTCGTGATTTAGCCTTGGGATTTCCCT
 2460 2470 2480 2490 2500 2510 2520

NaeI

NgoMI

| |
 GCCCCGATTTAGAGCTTGACGGGGAAAGCCGGCGAACGTGGCGAGAAAGGAAGGGAAGAAAGCGAAAGG
 CGGGGGCTAAATCTCGAACTGCCCTTTTCGGCCGCTTGACCCGCTCTTTCCCTTCCCTTCTTTTCGCTTTCC
 2530 2540 2550 2560 2570 2580 2590

BsrBI

|
 AGCGGGCGCTAGGGCGCTGGCAAGTGTAGCGGTCACGCTGCGCGTAACCACCACACCCGCCGCGCTTAAT
 TCGCCCGGATCCCGCGACCGTTACATCGCCAGTGCAGCGCGCATTGGTGGTGTGGGCGGCGCGAATTA
 2600 2610 2620 2630 2640 2650 2660

GCGCCGCTACAGGGCGCGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTT
 CGCGGCGATGTCCCGCGCAGTCCACCGTGAAGAGCCCTTTACACGCGCCTTGGGGATAAACAAATAAAA
 2670 2680 2690 2700 2710 2720 2730

BspHI

EarI

BsrBI

SspI

| | | |
 TCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAACCCTGATAAATGCTTCAATAATATTGAAA
 AGATTTATGTAAGTTTATACATAGGCGAGTACTCTGTTATTGGGACTATTTACGAAGTTATTATACTTT
 2740 2750 2760 2770 2780 2790 2800

Bsu36 I

PvuII

| |
 AAGGAAGAGTCCTGAGGCGGAAAGAACCAGCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAG
 TTCCTTCTCAGGACTCCGCCTTTCTTGGTTCGACACCTTACACACAGTCAATCCCACACCTTTTCAGGGGTC
 2810 2820 2830 2840 2850 2860 2870

NsiI
SphI
Ppu10 I
SexAI

GCTCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCC
CGAGGGGTCGTCCGTCTTCATACGTTTCGTACGTAGAGTTAATCAGTCGTTGGTCCACACCTTTCAGGGG

2880 2890 2900 2910 2920 2930 2940

NsiI
SphI
Ppu10 I

AGGCTCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTA
TCCGAGGGGTCGTCCGTCTTCATACGTTTCGTACGTAGAGTTAATCAGTCGTTGGTATCAGGGCGGGGAT

2950 2960 2970 2980 2990 3000 3010

NcoI

ACTCCGCCCATCCCGCCCCTAACTCCGCCAGTTCCGCCATTCTCCGCCCATGGCTGACTAATTTTTTT
TGAGGCGGGTAGGGCGGGGATTGAGGCGGGTCAAGGCGGGTAAGAGGCGGGGTACCGACTGATTAATAAAA

3020 3030 3040 3050 3060 3070 3080

Bgl I
SfiI

TTATTTATGCAGAGGCCGAGGCCGCTCGGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTTGG
AATAAATACGTCTCCGGCTCCGGCGGAGCCGGAGACTCGATAAGGTCTTCATCACTCCTCCGAAAAAAC

3090 3100 3110 3120 3130 3140 3150

AvrII
StuI
BseRI ClaI BsaBI BspMI

AGGCCTAGGCTTTTGC AAAGATCGATCAAGAGACAGGATGAGGATCGTTTCGCATGATTGAACAAGATGG
TCCGGATCCGAAAACGTTTCTAGCTAGTTCTCTGTCTACTCCTAGCAAAGCGTACTA ACTTGTCTTCTACC

3160 3170 3180 3190 3200 3210 3220

EagI

ATTGCACGCAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTCCGGCTATGACTGGGCACAACAGACAATC
TAACGTGCGTCCAAGAGGCCGCGGAACCCACCTCTCCGATAAGCCGATACTGACCCGTGTTGTCTGTTAG

3230 3240 3250 3260 3270 3280 3290

BbeI
EheI
NarI
KasI DrdI

GGCTGCTCTGATGCCGCCGTGTTCCGGCTGTCAGCGCAGGGGCGCCCGGTTCTTTTTGTCAAGACCGACC
CCGACGAGACTACGGCGGCACAAGGCCGACAGTCGCGTCCCCGCGGGCCAAGAAAAACAGTTCTGGCTGG

3300 3310 3320 3330 3340 3350 3360

MscI
|

TGTCCGGTGCCCTGAATGAACTGCAAGACGAGGCAGCGCGGCTATCGTGGCTGGCCACGACGGGCGTTCC
ACAGGCCACGGGACTTACTTGACGTTCTGCTCCGTCGCGCCGATAGCACCGACCGGTGCTGCCCGCAAGG

3370 3380 3390 3400 3410 3420 3430

PvuII
| | | |

FspI Tth111 I Eco57 I

TTGCGCAGCTGTGCTCGACGTTGTCACTGAAGCGGGAAGGGACTGGCTGCTATTGGGCGAAGTGCCGGGG
AACGCGTCGACACGAGCTGCAACAGTGACTTCGCCCTTCCCTGACCGACGATAACCCGCTTACGGCCCC

3440 3450 3460 3470 3480 3490 3500

BsrDI
|

CAGGATCTCCTGTCATCTCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCAATGCGGCGGC
GTCCTAGAGGACAGTAGAGTGGAACGAGGACGGCTCTTTCATAGGTAGTACCGACTACGTTACGCCGCC

3510 3520 3530 3540 3550 3560 3570

BspMI
|

TGCATACGCTTGATCCGGCTACCTGCCCATTCGACCACCAAGCGAAACATCGCATCGAGCGAGCACGTAC
ACGTATGCGAACTAGGCCGATGGACGGGTAAGCTGGTGGTTTCGCTTTGTAGCGTAGCTCGCTCGTGCATG

3580 3590 3600 3610 3620 3630 3640

SapI
EarI
|

TCGGATGGAAGCCGGTCTTGTGCGATCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAA
AGCCTACCTTCGGCCAGAACAGCTAGTCCTACTAGACCTGCTTCTCGTAGTCCCCGAGCGGGTTCGGCTT

3650 3660 3670 3680 3690 3700 3710

SphI NcoI
| |

CTGTTCCGCCAGGCTCAAGGCGAGCATGCCCCGACGGCGAGGATCTCGTTCGTGACCCATGGCGATGCCTGCT
GACAAGCGGTCCGAGTTCGCTCGTACGGGCTGCCGCTCCTAGAGCAGCACTGGGTACCGCTACGGACGA

3720 3730 3740 3750 3760 3770 3780

NaeI
| | |

NgoMI RsrII

TGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTCATCGACTGTGGCCGGCTGGGTGTGGCGGA
ACGGCTTATAGTACCACCTTTTACCGGCGAAAAGACCTAAGTAGCTGACACCGGCCGACCCACACCGCCT

3790 3800 3810 3820 3830 3840 3850

EarI
SapI Eco57 I
| | |

CCGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGCTGACCGC
GGCGATAGTCCTGTATCGCAACCGATGGGCACTATAACGACTTCTCGAACCGCCGCTTACCCGACTGGCG

3860 3870 3880 3890 3900 3910 3920

BssSI | BsrBI |
 TTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTTCGCAGCGCATCGCCTTCTATCGCCTTCTTGACGAGT
 AAGGAGCACGAAATGCCATAGCGGCGAGGGCTAAGCGTCGCGTAGCGGAAGATAGCGGAAGAAGTCTCA
 3930 3940 3950 3960 3970 3980 3990

BsrBI | BstBI | BssSI | BspMI |
 TCTTCTGAGCGGGACTCTGGGGTTTCGAAATGACCGACCAAGCGACGCCAACCTGCCATCACGAGATTTT
 AGAAGACTCGCCCTGAGACCCCAAGCTTTACTGGCTGGTTTCGCTGCGGGTTGGACGGTAGTGCTCTAAAG
 4000 4010 4020 4030 4040 4050 4060

NaeI | BpmI | NgoMI |
 GATTCCACCGCCGCTTCTATGAAAGGTTGGGCTTCGGAATCGTTTTCCGGGACGCCGGCTGGATGATCC
 CTAAGGTGGCGGCGGAAGATACTTTCCAACCCGAAGCCTTAGCAAAGGCCCTGCGGCCGACCTACTAGG
 4070 4080 4090 4100 4110 4120 4130

BpmI | AvrII |
 TCCAGCGCGGGGATCTCATGCTGGAGTTCTTCGCCACCCCTAGGGGGAGGCTAACTGAAACACGGAAGGA
 AGGTCGCGCCCCTAGAGTACGACCTCAAGAAGCGGGTGGGATCCCCCTCCGATTGACTTTGTGCCTTCTT
 4140 4150 4160 4170 4180 4190 4200

GACAATACCGGAAGGAACCCGCGCTATGACGGCAATAAAAAGACAGAATAAAACGCACGGTGTGGGTTCG
 CTGTTATGGCCTTCTTGGGCGGATACTGCCGTTATTTTTCTGTCTTATTTTTGCGTGCCACAACCCAGC
 4210 4220 4230 4240 4250 4260 4270

BsaI |
 TTTGTTTCATAAACGCGGGGTTTCGGTCCCAGGGCTGGCACTCTGTTCGATACCCACCGAGACCCCATTTGGG
 AAACAAGTATTTGCGCCCCAAGCCAGGGTCCCAGCCGTGAGACAGCTATGGGGTGGCTCTGGGGTAACCC
 4280 4290 4300 4310 4320 4330 4340

GCCAATACGCCCGCTTTCTTCCTTTTCCCCACCCACCCCAAGTTCGGGTGAAGGCCAGGGCTCGC
 CGGTTATGCGGGCGCAAAGAAGGAAAAGGGTGGGGTGGGGGTTCAAGCCCACTTCCGGGTCCCAGCG
 4350 4360 4370 4380 4390 4400 4410

AlwNI | Bsu36 I | DraI |
 AGCCAACGTCGGGGCGGCAGGCCCTGCCATAGCCTCAGGTTACTCATATATACTTTAGATTGATTTAAAA
 TCGGTTGCAGCCCCCGCGTCCGGGACGGTATCGGAGTCCAATGAGTATATATGAAATCTAACTAAATTTT
 4420 4430 4440 4450 4460 4470 4480

DraI BspHI

| |

CTTCATTTTTTAATTTAAAAGGATCTAGGTGAAGATCCTTTTTTGATAATCTCATGACCAAATCCCTTAAC
 GAAGTAAAAATTAAATTTTCTAGATCCACTTCTAGGAAAACTATTAGAGTACTGGTTTTAGGGAATTG

4490 4500 4510 4520 4530 4540 4550

GTGAGTTTTTCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTT
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4560 4570 4580 4590 4600 4610 4620

TCTGCGCGTAATCTGCTGCTTGCAAACAAAAAACCACCGCTACCAGCGGTGGTTTGTGTTGCCGGATCAA
 AGACGCGCATTAGACGACGAACGTTTGTTTTTTTGGTGGCGATGGTCGCCACCAAACAAACGGCCTAGTT

4630 4640 4650 4660 4670 4680 4690

Eco57 I

|

GAGTACCAACTCTTTTTCCGAAGGTAAGTGGCTTTCAGCAGAGCGCAGATACCAAATACTGTCCTTCTAG
 CTCGATGGTTGAGAAAAAGGCTTCCATTGACCGAAGTCGTCTCGCGTCTATGGTTTATGACAGGAAGATC

4700 4710 4720 4730 4740 4750 4760

TGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATACTCGCTCTGCTAATCCT
 ACATCGGCATCAATCCGGTGGTGAAGTTCTTGAGACATCGTGGCGGATGTATGGAGCGAGACGATTAGGA

4770 4780 4790 4800 4810 4820 4830

AlwNI

|

GTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCG
 CAATGGTCACCGACGACGGTCACCGCTATTTCAGCACAGAATGGCCAACCTGAGTTCTGCTATCAATGGC

4840 4850 4860 4870 4880 4890 4900

ApaLI

|

GATAAGGCGCAGCGGTCCGGCTGAACGGGGGGTTCGTGCACACAGCCCAGCTTGGAGCGAACGACCTACA
 CTATTCGCGTCCGACGCCGACTTGCCCCCAAGCACGTGTGTGCGGGTCGAACCTCGCTTGCTGGATGT

4910 4920 4930 4940 4950 4960 4970

CCGAAGTGAAGTACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCAGGGAGAAAGGCGGACAG
 GGCTTGACTCTATGGATGTGCACTCGATACTTTTTCGCGGTGCGAAGGGCTTCCCTCTTTCCGCCTGTC

4980 4990 5000 5010 5020 5030 5040

BssSI

|

GTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCGCACAGGGAGCTTCCAGGGGAAACGCCTGGTAT
 CATAGGCCATTGCGCGTCCAGCCTTGTCTCTCGCGTGCTCCCTCGAAGGTCCCCCTTTGCGGACCATA

5050 5060 5070 5080 5090 5100 5110

DrdI
|

CTTTATAGTCCTGTCGGGTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGC
 GAAATATCAGGACAGCCCAAAGCGGTGGAGACTGAACTCGCAGCTAAAAACACTACGAGCAGTCCCCCG
 5120 5130 5140 5150 5160 5170 5180

GGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCCTTTTGCTGGCCTTTTGCTCA
 CCTCGGATACCTTTTTGCGGTCGTTGCGCCGGAAAAATGCCAAGGACCGGAAAAACGACCGGAAAAACGAGT
 5190 5200 5210 5220 5230 5240 5250

NsiI

BspLU11 I
|

Ppu10 I
| |

CATGTTCTTTCCTGCGTTATCCCCTGATTCTGTGGATAACCGTATTACCGCCATGCAT
 GTACAAGAAAGGACGCAATAGGGGACTAAGACACCTATTGGCATAATGGCGGTACGTA
 5260 5270 5280 5290 5300 5310