

EcoRI
 |
 GAATTCATACCAGATCACCGAAAACCTGTCCTCCAAATGTGTCCCCCTCACACTCCCAAATTCGCGGGCTT
 CTTAAGTATGGTCTAGTGGCTTTTGACAGGAGGTTTACACAGGGGGAGTGTGAGGGTTTAAGCGCCCGAA
 10 20 30 40 50 60 70

SacII
 |
 CTGCCTCTTAGACCACTCTACCCTATTCCCCACACTCACCGGAGCCAAAGCCGCGGCCCTTCCGTTTCTT
 GACGGAGAATCTGGTGAGATGGGATAAGGGGTGTGAGTGGCCTCGGTTTTCGGCGCCGGGAAGGCAAAGAA
 80 90 100 110 120 130 140

NheI Afl II
 | |
 TGCTTTTGAAGACCCACCCGTAGGTGGCAAGCTAGCTTAAGTAACGCCACTTTGCAAGGCATGGAAAA
 ACGAAAACCTTTCTGGGGTGGGCATCCACCGTTCGATCGAATTCATTGCGGTGAAACGTTCCGTACCTTTT
 150 160 170 180 190 200 210

PvuII
 |
 ATACATAACTGAGAATAGAAAAGTTCAGATCAAGGTCAGGAACAAAGAAACAGCTGAATACCAAACAGGA
 TATGTATTGACTCTTATCTTTTCAAGTCTAGTTCAGTCCCTTGTTTCTTTGTGCGACTTATGGTTTGTCTT
 220 230 240 250 260 270 280

EcoRV PvuII
 | |
 TATCTGTGGTAAGCGGTTTCTGCCCGGCTCAGGGCCAAGAACAGATGAGACAGCTGAGTGATGGGCCAA
 ATAGACACCATTTCGCCAAGGACGGGGCCGAGTCCCGGTTCTTGTCTACTCTGTGCGACTCACTACCCGGTT
 290 300 310 320 330 340 350

EcoRV AlwNI
 | |
 ACAGGATATCTGTGGTAAGCAGTTTCTGCCCGGCTCGGGGCCAAGAACAGATGGTCCCAGATGCGGTC
 TGTCTATAGACACCATTTCGTCAAGGACGGGGCCGAGCCCGGTTCTTGTCTACCAGGGGTCTACGCCAG
 360 370 380 390 400 410 420

PpuMI
 |
 CAGCCCTCAGCAGTTTCTAGTGAATCATCAGATGTTTCCAGGGTGCCCCAAGGACCTGAAAATGACCCTG
 GTCGGGAGTCGTCAAAGATCACTTAGTAGTCTACAAAGGTCCCACGGGGTTTCTGGACTTTTACTGGGAC
 430 440 450 460 470 480 490

BssHII BsrBI SacI Ecl136 II
 | | | |
 TACCTTATTTGAACTAACCAATCAGTTCGCTTCTCGCTTCTGTTTCGCGCGCTTCCGCTCTCCGAGCTCAA
 ATGGAATAAACTTGATTGGTTAGTCAAGCGAAGAGCGAAGACAAGCGCGAAGGCGAGAGGCTCGAGTT
 500 510 520 530 540 550 560

BbsI
AscI
BssHII
Tth111 I
XmaI
SmaI
KpnI
Asp718 I

TAAAAGAGCCCAACAACCCCTCACTCGGCGCGCCAGTCTTCCGATAGACTGCGTCGCCCGGGTACCCGTAT
ATTTTCTCGGGTGTGGGGAGTGAGCCGCGCGGTTCAGAAGGCTATCTGACGCAGCGGGCCCATGGGCATA

570 580 590 600 610 620 630

BcgI
BsaI
BseRI
BsaI

TCCAATAAAGCCTCTTGCTGTTTGCATCCGAATCGTGGTCTCGCTGTTTCTTGGGAGGGTCTCCTCTGA
AGGGTTATTTTCGGAGAACGACAAACGTAGGCTTAGCACCAGAGCGACAAGGAACCCCTCCAGAGGAGACT

640 650 660 670 680 690 700

PshAI
BsaI

GTGATTGACTACCCACGACGGGGTCTTTTCATTTGGGGGCTCGTCCGGGATTTGGAGACCCCTGCCCAGG
CACTAACTGATGGGTGCTGCCCCAGAAAGTAAACCCCCGAGCAGGCCCTAAACCTCTGGGGACGGGTCC

710 720 730 740 750 760 770

MscI

GACCACCGACCCACCACCGGGAGGTAAGCTGGCCAGCAACTTATCTGTGTCTGTCCGATTGTCTAGTGTG
CTGGTGGCTGGGTGGTGGCCCTCCATTCGACCGGTCTGTTGAATAGACACAGACAGGCTAACAGATCACAG

780 790 800 810 820 830 840

SpeI

TATGTTTGATGTTATGCGCCTGCGTCTGTAAGTACTAGTCTAAGTACTAGCTCTGTATCTGGCGGACCCGTGGT
ATACAAACTACAATACGCGGACGCAGACATGATCAATCGATTGATCGAGACATAGACCGCCTGGGCACCA

850 860 870 880 890 900 910

EagI
BsmBI
AatII

GGAAGTACGAGTTCTGAACACCCGGCCGCAACCCTGGGAGACGTCCCAGGGACTTTGGGGGCCGTTTTT
CCTTGACTGCTCAAGACTTGTGGGCCGCGTGGGACCCCTCTGCAGGGTCCCTGAAACCCCGCAAAAA

920 930 940 950 960 970 980

EcoNI
Bsu36 I
Tth111 I
BsmBI

GTGGCCCCGACCTGAGGAAGGGAGTCGATGTGGAATCCGACCCCGTCAGGATATGTGGTTCTGGTAGGAGA
CACCGGGCTGGACTCCTTCCCTCAGCTACACCTTAGGCTGGGGCAGTCCTATACACCAAGACCATCCTCT

990 1000 1010 1020 1030 1040 1050

CGAGAACCTAAAACAGTTCCCGCCTCCGTCTGAATTTTTGCTTTTCGTTTTGGAACCGAAGCCGCGCTCT
GCTCTTGGATTTTGTCAAGGGCGGAGGCAGACTTAAAAACGAAAGCCAAACCTTGGCTTCGGCGCGCAGA

1060 1070 1080 1090 1100 1110 1120

Eco47 III
PstI PstI
| | |
TGTCTGCTGCAGCGCTGCAGCATCGTTCTGTGTTGTCTCTGTCTGACTGTGTTTCTGTATTTGTCTGAAA
ACAGACGACGTCGCGACGTCGTAGCAAGACACAACAGAGACAGACTGACACAAAGACATAAACAGACTTT
1130 1140 1150 1160 1170 1180 1190

AhdI
Afl II Bsu36 I BsrBI
| | |
ATTAGGGCCAGACTGTTACCACTCCCTTAAGTTTGACCTTAGGTCACTGGAAAGATGTCGAGCGGATCGC
TAATCCCGGTCTGACAATGGTGAGGGAATTCAAACTGGAATCCAGTGACCTTTCTACAGCTCGCCTAGCG
1200 1210 1220 1230 1240 1250 1260

BsmBI
EarI BstEII PstI MscI
| | | | |
TCACAACCAGTCGGTAGATGTCAAGAAGAGACGTTGGGTTACCTTCTGCTCTGCAGAATGGCCAACCTTT
AGTGTGGTCAGCCATCTACAGTTCTTCTCTGCAACCCAATGGAAGACGAGACGTCTTACCGGTTGAAAA
1270 1280 1290 1300 1310 1320 1330

BsmBI BsaI
| |
AACGTCGGATGGCCGCGAGACGGCACCTTTAACCGAGACCTCATCACCAGGTTAAGATCAAGTCTTTT
TTGCAGCCTACCGGCGCTCTGCCGTGAAATTTGGCTCTGGAGTAGTGGGTCCAATTCTAGTTCCAGAAAA
1340 1350 1360 1370 1380 1390 1400

PpuMI
Tth111 I
SexAI
| | |
CACCTGGCCCGCATGGACACCCAGACCAGGTCCCCTACATCGTGACCTGGGAAGCCTTGGCTTTTGACCC
GTGGACCGGGCGTACCTGTGGGTCTGGTCCAGGGGATGTAGCACTGGACCCTTCGGAACCGAAAACCTGGG
1410 1420 1430 1440 1450 1460 1470

BsrGI BseRI EarI BsmBI
| | | |
CCCTCCCTGGGTCAAGCCCTTTGTACACCCTAAGCCTCCGCCTCCTTCTTCCATCCGCCCCGTCTCTC
GGGAGGGACCCAGTTTCGGGAAACATGTGGGATTCGGAGGCGGAGGAGAAGGAGGTAGGCGGGCAGAGAG
1480 1490 1500 1510 1520 1530 1540

BseRI
|
CCCCTTGAACCTCCTCGTTTCGACCCCGCCTCGATCCTCCCTTTATCCAGCCCTCACTCCTTCTCTAGGCG
GGGAACTTGGAGGAGCAAGCTGGGGCGGAGCTAGGAGGGAAATAGGTCGGGAGTGAGGAAGAGATCCCG
1550 1560 1570 1580 1590 1600 1610

EheI
NarI
KasI
EcoNI
| |
|

EcoRI
BbeI Bcl I BsaBI BspMI
| | | |
CCGGAATTCCGATCTGATCAAGAGACAGGATGAGGATCGTTTTGCATGATTGAACAAGATGGATTGCACG
GGCCTTAAGGCTAGACTAGTTCTCTGTCTACTCCTAGCAAAGCGTACTAACTTGTCTACCTAACGTGC
1620 1630 1640 1650 1660 1670 1680

EagI
|
CAGGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTCGGCTATGACTGGGCACAACAGACAATCGGCTGCTC
GTCCAAGAGGCCGGCGAACCCACCTCTCCGATAAGCCGATACTGACCCGTGTTGTCTGTTAGCCGACGAG
1690 1700 1710 1720 1730 1740 1750

BbeI
EheI
NarI
KasI DrdI
||| |
TGATGCCGCCGTGTTCCGGCTGTCAGCGCAGGGGCGCCGGTCTTTTTGTCAAGACCGACCTGTCCGGT
ACTACGGCGGCACAAGGCCGACAGTCGCGTCCCGCGGGCCAAGAAAAACAGTTCTGGCTGGACAGGCCA
1760 1770 1780 1790 1800 1810 1820

PstI MscI FspI
| | |
GCCCTGAATGAACTGCAGGACGAGGCAGCGCGGCTATCGTGGCTGGCCACGACGGGCGTTCCTTGCGCAG
CGGGACTTACTTGACGTCCTGCTCCGTCGCGCCGATAGCACCACCGGTGCTGCCCGCAAGGAACGCGTC
1830 1840 1850 1860 1870 1880 1890

PvuII Tth111 I Eco57 I
| | |
CTGTGCTCGACGTTGTCACTGAAGCGGGAAGGGACTGGCTGCTATTGGGCGAAGTGCCGGGGCAGGATCT
GACACGAGCTGCAACAGTGACTTCGCCCTTCCCTGACCGACGATAACCCGCTTCACGGCCCCGTCTCTAGA
1900 1910 1920 1930 1940 1950 1960

BsrDI
|
CCTGTCATCTCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCAATGCGGCGGCTGCATACG
GGACAGTAGAGTGGAACGAGGACGGCTCTTTTCATAGGTAGTACCGACTACGTTACGCCGCGACGTATGC
1970 1980 1990 2000 2010 2020 2030

BspMI
|
CTTGATCCGGCTACCTGCCCATTCGACCACCAAGCGAAACATCGCATCGAGCGAGCACGTACTCGGATGG
GAACTAGGCCGATGGACGGGTAAGCTGGTGGTTTCGCTTTGTAGCGTAGCTCGCTCGTGCATGAGCCTACC
2040 2050 2060 2070 2080 2090 2100

SapI
EarI
|
AAGCCGGTCTTGTGATCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAACTGTTTCG
TTCGGCCAGAACAGCTAGTCTACTAGACCTGCTTCTCGTAGTCCCCGAGCGCGGTTCGGCTTGACAAGCG
2110 2120 2130 2140 2150 2160 2170

BssHII SphI NcoI
| | |
CAGGCTCAAGGCGCGCATGCCCGACGGCGAGGATCTCGTCGTGACCCATGGCGATGCCTGCTTGCCGAAT
GTCCGAGTTCCGCGCGTACGGGCTGCCGCTCCTAGAGCAGCACTGGGTACCGCTACGGACGAACGGCTTA
2180 2190 2200 2210 2220 2230 2240

NaeI NgoMI RsrII
| | |
ATCATGGTGGAAAATGGCCGCTTTTCTGGATTCATCGACTGTGGCCGGCTGGGTGTGGCGGACCGCTATC
TAGTACCACCTTTTACCGGCGAAAAGACCTAAGTAGCTGACACCGGCCGACCCACACCGCCTGGCGATAG
2250 2260 2270 2280 2290 2300 2310

EarI SapI Eco57 I BssSI
| | | |
AGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGCTGACCGCTTCCTCGT
TCCTGTATCGCAACCGATGGGCACTATAACGACTTCTCGAACCGCGCTTACCCGACTGGCGAAGGAGCA
2320 2330 2340 2350 2360 2370 2380

BsrBI
|
GCTTTACGGTATCGCCGCTCCCGATTTCGACGCGCATCGCCTTCTATCGCCTTCTTGACGAGTTCTTCTGA
CGAAATGCCATAGCGGCGAGGGCTAAGCGTCGCGTAGCGGAAGATAGCGGAAGAAGTCTCAAGAAGACT
2390 2400 2410 2420 2430 2440 2450

BsrBI
|
GCGGGACTCTGGGGTTCGTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCC
CGCCCTGAGACCCCAAGCATTATCATTAGTTAATGCCCCAGTAATCAAGTATCGGGTATATACCTCAAGG
2460 2470 2480 2490 2500 2510 2520

Bgl I AatII
| |
GCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCGCCATTGACGTCAAT
CGCAATGTATTGAATGCCATTTACCGGGCGGACCGACTGGCGGGTTGCTGGGGGCGGGTAACTGCAGTTA
2530 2540 2550 2560 2570 2580 2590

AatII
|
AATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGG
TTACTGCATACAAGGGTATCATTGCGGTTATCCCTGAAAGGTAAGTGCAGTTACCCACCTCATAAATGCC
2600 2610 2620 2630 2640 2650 2660

Bgl I NdeI AatII
| | |
TAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACG
ATTTGACGGGTGAACCGTCATGTAGTTCACATAGTATACGGTTCATGCGGGGGATAACTGCAGTTACTGC
2670 2680 2690 2700 2710 2720 2730

Bgl I
 |
 GTAAATGGCCCGCCTGGCATTATGCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTA
 CATTTACCGGGCGGACCGTAATACGGGTCATGTACTGGAATACCCTGAAAGGATGAACCGTCATGTAGAT
 2740 2750 2760 2770 2780 2790 2800

SnaBI NcoI
 | |
 CGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTT
 GCATAATCAGTAGCGATAATGGTACCACTACGCCAAAACCGTCATGTAGTTACCCGCACCTATCGCCAAA
 2810 2820 2830 2840 2850 2860 2870

AatII
 |
 GACTCACGGGGATTTCCAAGTCTCCACCCCATGACGTCAATGGGAGTTTGT'TTTGGCACCAAATCAAC
 CTGAGTGCCCTAAAGGTTTACAGAGGTGGGGTAACTGCAGTTACCCCTCAAACAAAACCGTGGTTTTAGTTG
 2880 2890 2900 2910 2920 2930 2940

GGGACTTTCCAAATGTCGTAACAACCTCCGCCCATGACGCAAATGGGCGGTAGGCGTGTACGGTGGGA
 CCTGAAAGTTTTACAGCATTTGTTGAGGCGGGTAACTGCGTTTTACCCGCCATCCGCACATGCCACCTT
 2950 2960 2970 2980 2990 3000 3010

Ecl1136 II
 XhoI
 NheI Eco47 III Bgl II
 | | | |
 GGTCTATATAAGCAGAGCTGGTTTAGTGAACCGTCAGATCCGCTAGCGCTACCGGACTCAGATCTCGAGC
 CCAGATATATTCGTCTCGACCAAATCACTTGGCAGTCTAGGCGATCGCGATGGCCTGAGTCTAGAGCTCG
 3020 3030 3040 3050 3060 3070 3080

BamHI
 Bsp120 I
 SacII SmaI
 EcoRI
 HindIII Sal I KpnI ApaI
 SacI BstBI PstI Asp718 I XmaI AgeI NcoI
 | | | | | | | | | | | | | | | |
 TCAAGCTTCGAATTCGAGTCGACGGTACCGCGGGCCCGGGATCCACCGGTCGCCACCATGGTGAGCAA
 AGTTCGAAGCTTAAGACGTCAGCTGCCATGGCGCCCGGGCCCTAGGTGGCCAGCGGTGGTACCACTCGTT
 3090 3100 3110 3120 3130 3140 3150

BseRI
 |
 GGGCGAGGAGCTGTTACCCGGGTTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGGCCACAAG
 CCCGCTCCTCGACAAGTGGCCCCACCACGGGTAGGACCAGCTCGACCTGCCGCTGCATTTGCCGGTGTTT
 3160 3170 3180 3190 3200 3210 3220

BsgI
 BcgI BcgI
 | |
 TTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGACCCCTGAAGTTCATCTGCACCA
 AAGTCGCACAGGCCGCTCCCGCTCCCGCTACGGTGGATGCCGTTTCTGACTGGGACTTCAAGTAGACGTGGT
 3230 3240 3250 3260 3270 3280 3290

NheI Afl II

| |

TCCAGAAAAAGGGGGGAATGAAAGACCCACCTGTAGGTTTGGCAAGCTAGCTTAAGTAACGCCATTTTG
 AGGTCTTTTTCCCCCTTACTTTCTGGGGTGGACATCCAAACCGTTCGATCGAATTCATTGCGGTAAAAC

3930 3940 3950 3960 3970 3980 3990

PvuII

|

CAAGGCATGGAAAAATACATAACTGAGAATAGAGAAGTTCAGATCAAGGTCAGGAACAGATGGAACAGCT
 GTTCCGTACCTTTTTATGTATTGACTCTTATCTCTTCAAGTCTAGTTCCAGTCTTGTCTACCTTGTCTGA

4000 4010 4020 4030 4040 4050 4060

EcoRV AlwNI

| |

GAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCGGCTCAGGGCCAAGAACAGATGGAA
 CTTATAACCCGGTTTGTCTTATAGACACCATTTCGTCAAGGACGGGGCCGAGTCCCGGTTCTTGTCTACCTT

4070 4080 4090 4100 4110 4120 4130

PvuII EcoRV AlwNI

| | |

CAGCTGAATATGGGCCAAACAGGATATCTGTGGTAAGCAGTTCCTGCCCGGCTCAGGGCCAAGAACAGA
 GTCGACTTATAACCCGGTTTGTCTTATAGACACCATTTCGTCAAGGACGGGGCCGAGTCCCGGTTCTTGTCT

4140 4150 4160 4170 4180 4190 4200

XbaI

|

TGGTCCCCAGATGCGGTCCAGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTCCAGGGTGCCCCAAG
 ACCAGGGGTCTACGCCAGGTTCGGGAGTCGTCAAAGATCTCTTGGTAGTCTACAAAGGTCCCACGGGGTTC

4210 4220 4230 4240 4250 4260 4270

PpuMI BssHII

| |

GACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTCGCTTCTCGCTTCTGTTTCGCGCGCTT
 CTGGACTTTACTGGGACACGGAATAAACTTGATTGGTTAGTCAAGCGAAGAGCGAAGACAAGCGCGCGAA

4280 4290 4300 4310 4320 4330 4340

BbeI

EheI

NarI

SacI KasI Tth111 I

| | | | |

CTGCTCCCCGAGCTCAATAAAAGAGCCCACAACCCCTCACTCGGGGCGCCAGTCCCTCCGATTGACTGAGT
 GACGAGGGGCTCGAGTTATTTTCTCGGGTGTGGGGAGTGAGCCCCGCGGTCAGGAGGCTAACTGACTCA

4350 4360 4370 4380 4390 4400 4410

Asp718 I

SmaI BseRI

XmaI KpnI AhdI BsaI

| | | | |

CGCCCGGGTACCCGTGTATCCAATAAACCCCTCTTGCAGTTGCATCCGACTTGTGGTCTCGCTGTTCTTCTTG
 GCGGGCCCATGGGCACATAGGTTATTTGGGAGAACGTCAACGTAGGCTGAACACCAGAGCGACAAGGAAC

4420 4430 4440 4450 4460 4470 4480

DrdI | BssSI |

GCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATAACCAGGCGTTTCCCCCTGGAAGCTCCCT
 CGAGTTCAGTCTCCACCGCTTTGGGCTGTCCTGATATTTCTATGGTCCGCAAAGGGGGACCTTCGAGGGA

5120 5130 5140 5150 5160 5170 5180

CGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTG
 GCACGCGAGAGGACAAGGCTGGGACGGCGAATGGCCTATGGACAGGCGGAAAGAGGGAAGCCCTTCGCAC

5190 5200 5210 5220 5230 5240 5250

GCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTTCGCTCCAAGCTGGGCTGTG
 CGCGAAAGAGTATCGAGTGCACATCCATAGAGTCAAGCCACATCCAGCAAGCGAGGTTTCGACCCGACAC

5260 5270 5280 5290 5300 5310 5320

ApaLI |

TGCACGAACCCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGT
 ACGTGCTTGGGGGGCAAGTCGGGCTGGCGACGCGAATAGGCCATTGATAGCAGAACTCAGGTTGGGCCA

5330 5340 5350 5360 5370 5380 5390

AlwNI |

AAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAAACAGGATTAGCAGAGCGAGGTATGTAGGCGGT
 TTCTGTGCTGAATAGCGGTGACCGTCGTCGGTGACCATTGTCTAATCGTCTCGCTCCATACATCCGCCA

5400 5410 5420 5430 5440 5450 5460

GCTACAGAGTTCCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTC
 CGATGTCTCAAGAACTTCACCACCGGATTGATGCCGATGTGATCTTCCTGTCATAAACCATAGACGCGAG

5470 5480 5490 5500 5510 5520 5530

Eco57 I |

TGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAG
 ACGACTTCGGTCAATGGAAGCCTTTTTTCTCAACCATCGAGAACTAGGCCGTTTGTTTGGTGGCGACCATC

5540 5550 5560 5570 5580 5590 5600

CGGTGGTTTTTTTTGTTTGAAGCAGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATC
 GCCACCAAAAAACAAACGTTTCGTCTAATGCGCGTCTTTTTTTTCTAGAGTTCTTCTAGGAACTAG

5610 5620 5630 5640 5650 5660 5670

BspHI |

TTTTCTACGGGTCTGACGCTCAGTGAACGAAAACCTCACGTTAAGGGATTTGGTTCATGAGATTATCAA
 AAAAGATGCCCCAGACTGCGAGTACCCTTGCTTTTGGAGTGCAATTCCTAAAACCAGTACTCTAATAGTT

5680 5690 5700 5710 5720 5730 5740

