

AseI
 |
 TAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCGCGTTACATAA
 ATCAATAATTATCATTAGTTAATGCCCCAGTAATCAAGTATCGGGTATATACCTCAAGGCGCAATGTATT
 10 20 30 40 50 60 70

BglI AatII
 | |
 CTTACGGTAAATGGCCCGCCTGGCTGACCGCCCAACGACCCCCGCCATTGACGTCAATAATGACGTATG
 GAATGCCATTTACCGGGCGGACCGACTGGCGGGTTGCTGGGGGCGGGTAACTGCAGTTATTACTGCATAC
 80 90 100 110 120 130 140

AatII
 |
 TTCCCATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCA
 AAGGGTATCATTGCGGTATATCCCTGAAAGGTAACCTGCAGTTACCCACCTCATAAATGCCATTTGACGGGT
 150 160 170 180 190 200 210

BglI NdeI AatII
 | | |
 CTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTGACGTCAATGACGGTAAATGGCCC
 GAACCGTCATGTAGTTCACATAGTATACGGTTCATGCGGGGGATAACTGCAGTTACTGCCATTTACCGGG
 220 230 240 250 260 270 280

BglI SnaBI
 | |
 GCCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCA
 CGGACCGTAATACGGGTTCATGTACTGGAATACCCCTGAAAGGATGAACCGTCATGTAGATGCATAATCAGT
 290 300 310 320 330 340 350

NcoI
 |
 TCGCTATTACCATGGTGTATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTTGACTCACGGGG
 AGCGATAATGGTACCACTACGCCAAAACCGTCATGTAGTTACCCGCACCTATCGCCAAACTGAGTGCCCC
 360 370 380 390 400 410 420

AatII
 |
 ATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAGTTTGT'TTTGGCACCAAATCAACGGGACTTTCCA
 TAAAGGTTTACAGAGGTGGGGTAACTGCAGTTACCCCTCAAACAAAACCGTGGT'TTTAGTTGCCCCTGAAAGGT
 430 440 450 460 470 480 490

AAATGTCGTAACAACCTCCGCCCCATTGACGCAAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAA
 TTTACAGCATTGTTGAGGCGGGGTAACCTGCGT'TTACCCGCCATCCGCACATGCCACCCTCCAGATATATT
 500 510 520 530 540 550 560

AgeI NheI Eco47III NcoI
 | | | |
 GCAGAGCTGGT'TTAGTGAACCGTCAGATCCGCTAGCGCTACCGGTGCCACCATGGTGTAGCAAGGGCGAG
 CGTCTCGACCAAATCACTTGGCAGTCTAGGCGATCGCGATGGCCAGCGGTGGTACCAC'TCGTTC'CCCGCTC
 570 580 590 600 610 620 630

BseRI
 |
 GAGCTGTTTACCGGGGTGGTGCCCATCCTGGTTCGAGCTGGACGGCGACGTAAACGGCCACAAGTTCAGCG
 CTCGACAAGTGGCCCCACCACGGGTAGGACCAGCTCGACCTGCCGCTGCATTTGCCGGTGTTCAGGTTCG
 640 650 660 670 680 690 700

BcgI
|
TGTCCGGCGAGGGCGAGGGCGATGCCACCTACGGCAAGCTGACCCCTGAAGTTCATCTGCACCACCGGCAA
ACAGGCCGCTCCCGCTCCCGCTACGGTGGATGCCGTTGACTGGGACTTCAAGTAGACGTGGTGGCCGTT
710 720 730 740 750 760 770

BsgI
|
GCTGCCCCGTGCCCTGGCCCACCCTCGTGACCACCCTGACCTACGGCGTGCAGTGCTTCAGCCGCTACCCC
CGACGGGCACGGGACCGGGTGGGAGCACTGGTGGGACTGGATGCCGCACGTCACGAAGTCGGCGATGGGG
780 790 800 810 820 830 840

Eco57I
|
GACCACATGAAGCAGCAGCACTTCTTCAAGTCCGCCATGCCCGAAGGCTACGTCCAGGAGCGCACCATCT
CTGGTGTACTTCGTCGTGCTGAAGAAGTTCAGGCGGTACGGGCTTCCGATGCAGGTCCCTCGCGTGGTAGA
850 860 870 880 890 900 910

TCTTCAAGGACGACGGCAACTACAAGACCCGCGCCGAGGTGAAGTTCGAGGGCGACACCCTGGTGAACCG
AGAAGTTCCTGCTGCCGTTGATGTTCTGGGCGCGGCTCCACTTCAAGCTCCCGCTGTGGGACCACTTGGC
920 930 940 950 960 970 980

Eco57I
|
CATCGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGCTGGAGTACAACCTAC
GTAGCTCGACTTCCCGTAGCTGAAGTTCCTCCTGCCGTTGTAGGACCCCGTGTTCGACCTCATGTTGATG
990 1000 1010 1020 1030 1040 1050

GsuI
|
AACAGCCACAACGTCTATATCATGGCCGACAAGCAGAAGAACGGCATCAAGGTGAACTTCAAGATCCGCC
TTGTCCGTGTTGCAGATATAGTACCGGCTGTTCTGTTCTTCCGCTAGTTCACCTTGAAGTTCAGGCGG
1060 1070 1080 1090 1100 1110 1120

BsgI
|
ACAACATCGAGGACGGCAGCGTGCAGCTCGCCGACCACTACCAGCAGAACACCCCATCGGGCAGCGCCC
TGTTGTAGCTCCTGCCGTGCACGTCGAGCGGCTGGTGGATGGTCTTGTGGGGGTAGCCGCTGCCGGG
1130 1140 1150 1160 1170 1180 1190

CGTGCTGCTGCCCCGACAACCACTACCTGAGCACCCAGTCCGCCCTGAGCAAAGACCCCAACGAGAAGCGC
GCACGACGACGGGCTGTTGGTGGTGGACTCGTGGGTGAGGCGGGACTCGTTTCTGGGGTGTCTTTCGCG
1200 1210 1220 1230 1240 1250 1260

GsuI
|
GATCACATGGTCTGCTGGAGTTCGTGACCGCCGCCGGGATCACTCTCGGCATGGACGAGCTGTACAAGT
CTAGTGTACCAGGACGACCTCAAGCACTGGCGGCGGCCCTAGTGAGAGCCGTACCTGCTCGACATGTTCA
1270 1280 1290 1300 1310 1320 1330

BsrGI
|

BamHI
ApaI
SacII SmaI
HindIII
XhoI SacI EcoRI SalI KpnI XmaI
BspEI BglIII Ecl136II BstBI PstI Asp718I Bsp120I

CCGGACTCAGATCTCGAGCTCAAGCTTCGAATTCTGCAGTCGACGGTACCGCGGGCCCGGGATCCACCGG
GGCCTGAGTCTAGAGCTCGAGTTCGAAGCTTAAGACGTCAGCTGCCATGGCGCCCCGGGCCCTAGGTGGCC
1340 1350 1360 1370 1380 1390 1400

XbaI BclI BsaBI DraI
ATCTAGATAACTGATCATAATCAGCCATAACCACATTTGTAGAGGTTTTACTTGCTTTAAAAAACCTCCCA
TAGATCTATTGACTAGTATTAGTCGGTATGGTGTAACATCTCCAAAATGAACGAAATTTTTTGGAGGGT
1410 1420 1430 1440 1450 1460 1470

BsmI MunI HpaI
CACCTCCCCCTGAACCTGAAACATAAAAATGAATGCAATTGTTGTTGTTAACTTGTTTTATTGCAGCTTATA
GTGGAGGGGGACTTGGACTTTGTATTTTACTTACGTTAAACAACAATTGAACAAATAACGTCGAATAT
1480 1490 1500 1510 1520 1530 1540

BsmI
ATGGTTACAAATAAAGCAATAGCATCACAAATTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTG
TACCAATGTTTATTTTCGTTATCGTAGTGTTTAAAGTGTTTATTTTCGTAAAAAAGTGACGTAAGATCAAC
1550 1560 1570 1580 1590 1600 1610

MluI SspI
TGGTTTGCCAAACTCATCAATGTATCTTAAACGCGTAAATTGTAAGCGTTAATATTTTGTTAAAATTTCGC
ACCAAACAGTTTGAGTAGTTACATAGAATTGCGCATTTAACATTTCGCAATTATAAAACAATTTTAAGCG
1620 1630 1640 1650 1660 1670 1680

GTTAAATTTTTGTTAAATCAGCTCATTTTTTAACCAATAGGCCGAAATCGGCAAAATCCCTTATAAATCA
CAATTTAAAAACAATTTAGTCGAGTAAAAAATTGTTATCCGGCTTTAGCCGTTTTAGGGAATATTTAGT
1690 1700 1710 1720 1730 1740 1750

AAAGAATAGACCGAGATAGGGTTGAGTGTGTTCCAGTTTGAACAAGAGTCCACTATTAAGAACGTGG
TTTCTTATCTGGCTCTATCCCAACTCACAACAAGGTCAAACCTTGTCTCAGGTGATAATTTCTTGCACC
1760 1770 1780 1790 1800 1810 1820

DrdI DraIII
ACTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCCACTACGTGAACCATCACCTAATC
TGAGGTTGCAGTTTCCCGCTTTTTGGCAGATAGTCCCGCTACCGGGTGATGCACTTGGTAGTGGGATTAG
1830 1840 1850 1860 1870 1880 1890

AAGTTTTTTGGGGTTCGAGGTGCCGTAAGCACTAAATCGGAACCCTAAAGGGAGCCCCGATTTAGAGCT
TTCAAAAAACCCAGCTCCACGGCATTTCGTGATTTAGCCTTGGGATTTCCCTCGGGGGCTAAATCTCGA
1900 1910 1920 1930 1940 1950 1960

NaeI
 NgoMI
 BsrBI
 TGACGGGGAAAGCCGCGCAACGTGGCGAGAAAGGAAGGGAAGAAAGCGAAAGGAGCGGGCGCTAGGGCGC
 ACTGCCCCCTTTTCGGCCGCTTGCACCGCTCTTTCCTTCCCTTCTTTTCGCTTTCCTCGCCCGCGATCCCGCG
 1970 1980 1990 2000 2010 2020 2030

TGGCAAGTGTAGCGGTCACGCTGCGCGTAACCACCACACCCGCCGCGCTTAATGCGCCGCTACAGGGCGC
 ACCGTTACATCGCCAGTGCACGCGCATTGGTGGTGTGGGCGGCGCGAATTACGCGGCGATGTCCCGCG
 2040 2050 2060 2070 2080 2090 2100

GTCAGGTGGCACTTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAAAT
 CAGTCCACCGTGAAAAGCCCTTTACACGCGCCTTGGGGATAAAACAAATAAAAAGATTTATGTAAGTTTA
 2110 2120 2130 2140 2150 2160 2170

BspHI
 BsrBI
 SspI
 EarI
 Bsu36I
 ATGTATCCGCTCATGAGACAATAACCCTGATAAATGCTTCAATAATATTGAAAAGGAAGAGTCCTGAGG
 TACATAGGCGAGTACTCTGTTATTGGGACTATTTACGAAGTTATTATAACTTTTTCTTCTCAGGACTCC
 2180 2190 2200 2210 2220 2230 2240

PvuII
 CGGAAAGAACCAGCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGA
 GCCTTTCTTGGTTCGACACCTTACACACAGTCAATCCACACCTTTCAGGGGTCCGAGGGGTTCGTCCGTCT
 2250 2260 2270 2280 2290 2300 2310

NsiI
 SphI
 Ppu10I
 SexAI
 AGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCA
 TCATACGTTTTCGTACGTAGAGTTAATCAGTCGTTGGTCCACACCTTTCAGGGGTCCGAGGGGTTCGTCCGT
 2320 2330 2340 2350 2360 2370 2380

NsiI
 SphI
 Ppu10I
 GAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACTCCGCCCATCCCGCC
 CTTTCATACGTTTTCGTACGTAGAGTTAATCAGTCGTTGGTATCAGGGCGGGGATTGAGGCGGGTAGGGCGG
 2390 2400 2410 2420 2430 2440 2450

NcoI
 CCTAACTCCGCCAGTTCCGCCATTCTCCGCCCATGGCTGACTAATTTTTTTTTTATTTATGCAGAGGCC
 GGATTGAGGCGGGTCAAGGCGGGTAAGAGGCGGGTACCGACTGATTAATAAAAAATAAATACGTCTCCGG
 2460 2470 2480 2490 2500 2510 2520

SfiI
 BglI
 AvrII
 StuI
 BseRI
 GAGGCCGCTCGGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTTGGAGGCCTAGGCTTTTGCA
 CTCCGGCGGAGCCGGAGACTCGATAAGGTCTTCATCACTCCTCCGAAAAAACCTCCGGATCCGAAAACGT
 2530 2540 2550 2560 2570 2580 2590

ClaI BsaBI
AAGATCGATCAAGAGACAGGATGAGGATCGTTTTCGCATGATTGAACAAGATGGATTGCACGCAGGTTCTC
TTCTAGCTAGTTCTCTGTCTACTCCTAGCAAAGCGTACTAACTTGTCTACCTAACGTGCGTCCAAGAG
2600 2610 2620 2630 2640 2650 2660

BspMI
EagI
CGGCCGCTTGGGTGGAGAGGCTATTTCGGCTATGACTGGGCACAACAGACAATCGGCTGCTCTGATGCCGC
GCCGGCGAACCCACCTCTCCGATAAGCCGATACTGACCCGTGTTGTCTGTTAGCCGACGAGACTACGGCG
2670 2680 2690 2700 2710 2720 2730

BbeI
EheI
NarI
KasI
DrdI
CGTGTTCCGGCTGTCAGCGCAGGGGCGCCCGGTTCTTTTTGTCAAGACCGACCTGTCCGGTGCCCTGAAT
GCACAAGGCCGACAGTTCGCGTCCCCGCGGGCCAAGAAAAACAGTTCTGGCTGGACAGGCCACGGGACTTA
2740 2750 2760 2770 2780 2790 2800

MscI
FspI
PvuII
GAACTGCAAGACGAGGCAGCGCGGCTATCGTGGCTGGCCACGACGGGCGTTCCTTGCGCAGCTGTGCTCG
CTTGACGTTCTGCTCCGTCGCGCCGATAGCACCCGACCGGTGCTGCCCGCAAGGAACGCGTTCGACACGAGC
2810 2820 2830 2840 2850 2860 2870

Tth111I
Eco57I
ACGTTGTCACTGAAGCGGGAAGGGACTGGCTGCTATTGGGCGAAGTGCCGGGGCAGGATCTCCTGTCATC
TGCAACAGTGACTTCGCCCTTCCCTGACCGACGATAACCCGCTTCACGGCCCCGTCTAGAGGACAGTAG
2880 2890 2900 2910 2920 2930 2940

BsrDI
TCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCAATGCGGGCGGCTGCATACGCTTGATCCG
AGTGGAACGAGGACGGCTCTTTCATAGGTAGTACCGACTACGTTACGCCGCGACGTATGCGAACTAGGC
2950 2960 2970 2980 2990 3000 3010

BspMI
GCTACCTGCCCATTCGACCACCAAGCGAAACATCGCATCGAGCGAGCACGTACTIONCGGATGGAAGCCGGTC
CGATGGACGGGTAAGCTGGTGGTTCGCTTTGTAGCGTAGCTCGCTCGTGCATGAGCTACCTTCGGCCAG
3020 3030 3040 3050 3060 3070 3080

SapI
EarI
TTGTTCGATCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAACTGTTTCGCCAGGCTCAA
AACAGCTAGTCTACTAGACCTGCTTCTCGTAGTCCCCGAGCGCGGTTCGGCTTGACAAGCGGTCGGAGTT
3090 3100 3110 3120 3130 3140 3150

SphI
NcoI
GGCGAGCATGCCCGACGGCGAGGATCTCGTTCGTGACCCATGGCGATGCCTGCTTGCCGAATATCATGGTG
CCGCTCGTACGGGCTGCCGCTCCTAGAGCAGCACTGGGTACCGCTACGGACGAACGGCTTATAGTACCAC
3160 3170 3180 3190 3200 3210 3220

NaeI
NcoMI RsrII

GAAAATGGCCGCTTTTCTGGATTTCATCGACTGTGGCCGGCTGGGTGTGGCGGACCGCTATCAGGACATAG
CTTTTACCGGCGAAAAGACCTAAGTAGCTGACACCGGCGGACCCACACCGCCTGGCGATAGTCTTGTATC

3230 3240 3250 3260 3270 3280 3290

SapI
EarI Eco57I

CGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGCTGACCGCTTCTTCGTGCTTTACGG
GCAACCGATGGGCACTATAACGACTTCTCGAACCGCCGCTTACCCGACTGGCGAAGGAGCACGAAATGCC

3300 3310 3320 3330 3340 3350 3360

BsrBI BsrBI

TATCGCCGCTCCCGATTTCGCAGCGCATCGCCTTCTATCGCCTTCTTGACGAGTTCTTCTGAGCGGGACTC
ATAGCGGCGAGGGCTAAGCGTTCGCGTAGCGGAAGATAGCGGAAGAAGTGTCAAGAAGACTCGCCCTGAG

3370 3380 3390 3400 3410 3420 3430

BstBI BspMI

TGGGGTTCGAAATGACCCGACCAAGCGACGCCAACCTGCCATCACGAGATTTTCGATTCCACCGCCGCCTT
ACCCCAAGCTTTACTGGCTGGTTCGCTGCGGGTTGGACGGTAGTGCTCTAAAGCTAAGGTGGCGGCCGAA

3440 3450 3460 3470 3480 3490 3500

NaeI
NcoMI

CTATGAAAGGTTGGGCTTCGGAATCGTTTTCCGGGACCGCGGCTGGATGATCCTCCAGCGCGGGGATCTC
GATACTTTCCAACCCGAAGCCTTAGCAAAGGCCCTGCGGCCGACCTACTAGGAGGTTCGCGCCCCTAGAG

3510 3520 3530 3540 3550 3560 3570

GsuI AvrII

ATGCTGGAGTTCTTCGCCCACCCTAGGGGGAGGCTAACTGAAACACGGAAGGAGACAATACCGGAAGGAA
TACGACCTCAAGAAGCGGGTGGGATCCCCCTCCGATTGACTTTGTGCCTTCTCTGTTATGGCCTTCTT

3580 3590 3600 3610 3620 3630 3640

CCCGCGCTATGACGGCAATAAAAAGACAGAATAAAACGCACGGTGTGGGTTCGTTTGTTCATAAACGCGG
GGCGCGATACTGCCGTTATTTTTCTGTCTTATTTTTGCGTGCACAAACCCAGCAAACAAGTATTTGCGCC

3650 3660 3670 3680 3690 3700 3710

BsaI

GGTTCGGTCCAGGGCTGGCACTCTGTGCATACCCACCGAGACCCCATTTGGGGCCAATACGCCCGCGTT
CCAAGCCAGGGTCCCGACCGTGAGACAGCTATGGGGTGGCTCTGGGGTAACCCCGGTTATGCGGGGCGAA

3720 3730 3740 3750 3760 3770 3780

TCTTCCTTTTCCCCACCCCAAGTTCGGGTGAAGGCCAGGGCTCGCAGCCAACGTCGGGGCGG
AGAAGGAAAAGGGGTGGGGTGGGGGTCAAGCCCACTTCCGGGTCCCGAGCGTTCGGTTGCAGCCCCGCG

3790 3800 3810 3820 3830 3840 3850

```
      AlwNI           Bsu36I                        DraI                       DraI
      |               |                               |                           |
CAGGCCCTGCCATAGCCTCAGGTTACTCATATATACTTTAGATTGATTTAAAACCTTCATTTTTTAATTTAA
GTCCGGGACGGTATCGGAGTCCAATGAGTATATATGAAATCTAACTAAATTTTGAAGTAAAAATTAATTT
      3860           3870           3880           3890           3900           3910           3920

                       BspHI
                       |
AAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAATCCCTTAACGTGAGTTTTTCGTTCCAC
TTCTTAGATCCACTTCTAGGAAAACTATTAGAGTACTGTTTTAGGGAATTGCACTCAAAGCAAGGTG
      3930           3940           3950           3960           3970           3980           3990

TGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCT
ACTCGCAGTCTGGGGCATCTTTTCTAGTTTTCTTAGAAGAACTCTAGGAAAAAAGACGCGCATTAGACGA
      4000           4010           4020           4030           4040           4050           4060

GCTTGCAAACAACAAAAACCACCGCTACCAGCGGTGGTTTTGTTTGCCGGATCAAGAGCTACCAACTCTTTT
CGAACGTTTTGTTTTTTGGTGGCGATGGTCGCCACCAAACAACCGCCTAGTTCTCGATGGTTGAGAAAA
      4070           4080           4090           4100           4110           4120           4130

                       Eco57I
                       |
TCCGAAGGTAACCTGGCTTCAGCAGAGCGCAGATAACCAAATACTGTCCTTCTAGTGAGCCGTAGTTAGGC
AGGCTTCCATTGACCGAAGTCGTCTCGCGTCTATGGTTTATGACAGGAAGATCACATCGGCATCAATCCG
      4140           4150           4160           4170           4180           4190           4200

                                                                AlwNI
                                                                |
CACC ACTTCAAGAACTCTGTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTG
GTGGTGAAGTTCTTGAGACATCGTGGCGGATGTATGGAGCGAGACGATTAGGACAATGGTCACCGACGC
      4210           4220           4230           4240           4250           4260           4270

CCAGTGGCGATAAGTCGTGCTTACCGGGTTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTC
GGTCACCGCTATTCAGCACAGAATGGCCCAACCTGAGTTCTGCTATCAATGGCCTATTCGCGTCTGCCAG
      4280           4290           4300           4310           4320           4330           4340

                       ApaLI
                       |
GGGCTGAACGGGGGTTCGTGCACACAGCCCAGCTTGGAGCGAACGACCTACACCGAAGTACCTACCTA
CCCAGCTTGCCCCCAAGCACGTGTGTCTGGGTCGAACCTCGCTTGCTGGATGTGGCTTACTCTATGGAT
      4350           4360           4370           4380           4390           4400           4410

CAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCAGAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCA
GTCGCACTCGATACTTTTTCGCGGTGCGAAGGGCTTCCCTCTTTCCGCCTGTCCATAGGCCATTCGCCGT
      4420           4430           4440           4450           4460           4470           4480

GGGTCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGAAACGCCTGGTATCTTTATAGTCCTGTGCG
CCCAGCCTTGTCTCTCTCGCGTGTCTCCCTCGAAGGTCCCCCTTTCGCGACCATAGAAATATCAGGACAGCC
      4490           4500           4510           4520           4530           4540           4550
```

DrdI
|

GTTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAAC
CAAAGCGGTGGAGACTGAACTCGCAGCTAAAAACACTACGAGCAGTCCCCCGCCTCGGATACCTTTTTG

4560 4570 4580 4590 4600 4610 4620

GCCAGCAACGCGGCCTTTTTACGGTTCCTGGCCTTTTGGCTGGCCTTTTGGCTCACATGTTCTTTCCTGCGT
CGGTCGTTGCGCCGAAAAATGCCAAGGACCGAAAAACGACCGAAAAACGAGTGTACAAGAAAGGACGCA

4630 4640 4650 4660 4670 4680 4690

NsiI
Ppu10I
| |

TATCCCCTGATTCTGTGGATAACCGTATTACCGCCATGCAT
ATAGGGGACTAAGACACCTATTGGCATAATGGCGGTACGTA

4700 4710 4720 4730