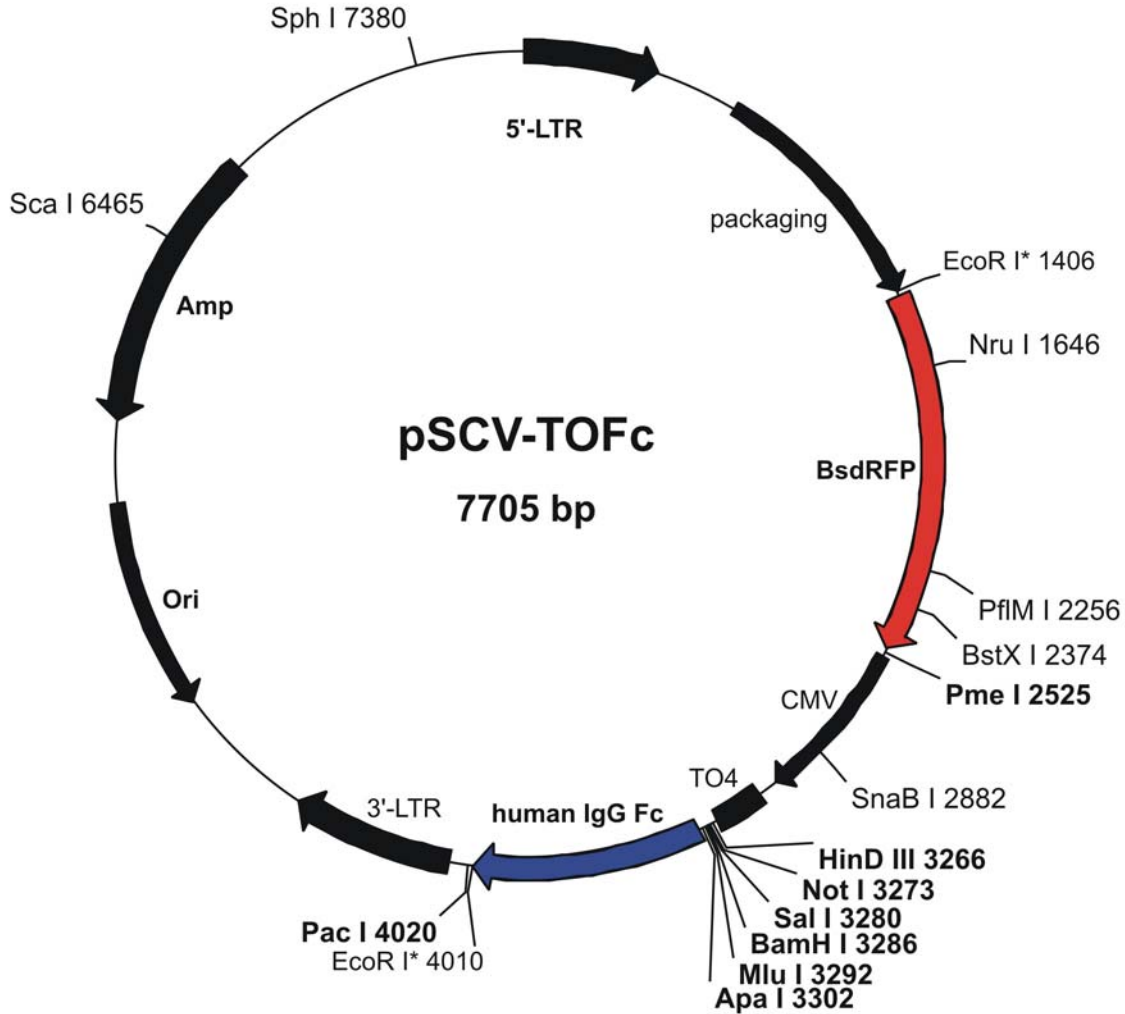


Name of Vector: pSCV-TOFc  
 Antibiotic Selection: Amp  
 Created by: Hong Yin  
 (He Lab @ The University of Chicago)  
 Date of Creation: April 2005



### Linker Sequence

```

Bgl II (1/4)  Hind III  Not I  Sal I  BamH I  Mlu I  Apa I
|-----|-----|-----|-----|-----|-----|
agatc taa gct tgc ggc cgc gtc gac gga tcc acg cgt ggg ccc gga ggc ggc
      -  A  C  G  R  V  D  G  S  T  R  G  P  G  G  G
gag ccc aaa .....ccg ggt aaa. TGA attcttaattaa
E  P  K ..... P  G  K
      |-----|-----|
      EcoR I (1/2)  Pac I
  
```

**Human IgG Fc Tag**

## pSCV-TOFc Sequence

TGAAAGACCC CACCTGTAGG TTTGGCAAGC TAGCTTAAGT AACGCCATTT TGCAAGGCATGGAAAATACATAACTGAGAA  
TAGAGAAGTT CAGATCAAGG TTAGGAACAG AGAGACAGCAGAATATGGGC CAAACAGGAT ATCTGTGGTAAGCAGTTCCCT  
GCCCCGGCTCAGGGCCAAGAACAGATGGTCCCCAGATGCGGTCCCGCCCTCAGCAGTTTCTAGAGAACCATCAGATGTTTTCCAGG  
GTGCCCCAAGGACCTGAAATGACCCTGTGCCTTATTTGAACTAACCAATCAGTTCGCTTCTCGCTTCTGTTCGCGCGCTTCTGTCT  
CCCCGAGCTC AATAAAAAGAG CCCACAACCCCTCACTCGGC GCGCCAGTCC TCCGATAGAC TCGCTCGCCCGGGTACCCGT  
ATTCCCAATAAAAGCCTCTTG CTGTTTGCAT CCGAATCGTG GACTCGCTGA TCCTTGGGAG GGTCTCCTCAGATTGATTGA  
CTGCCACCT CGGGGTCTT TCATTTGGAG GTTCCACCGA GATTTGGAGACCCTGCCA GGGACCACCGACCCCCCGC  
CGGGAGGTAA GCTGGCCAGC GGTCGTTTCGTGTCTGTCTC TGTCTTTGTG CGTGTTTGTG CCGGCATCTAATGTTTGC  
CTGCGTCTGTACTAGTTAG TAACTAGCTC TGTATCTGGC GGACCCGTGG TGAAGTGA GAGTCTGAACACCCGGCCG  
CAACCTGGG AGACGTCCA GGGACTTTGG GGGCCGTTTT TGTGGCCACCTGAGGAAG GGATCGATGTGGAATCCGA  
CCCCGTCAAG ATATGTGGTT CTGGTAGGAGACGAGAACCT AAAACAGTTC CCGCTCCGT CTGAATTTTGTCTTTCGGTT  
TGAACCGAAGCCGCGCTC TTGTCTGCTG CAGCGCTGCA GCATCGTTCT GTGTTGTCTC TGTCTGACTGTGTTTCTGTA  
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|          |      |      |      |      |      |           |      |      |      |      |      |
|----------|------|------|------|------|------|-----------|------|------|------|------|------|
| Asc I    | (2)  | 370  | 4437 |      |      | BspM I    | (2)  | 3772 | 3902 |      |      |
| Ase I    | (5)  | 2549 | 4735 | 4863 | 4922 | Bsr I     | (20) | 376  | 1032 | 1060 | 1548 |
|          |      | 6157 |      |      |      |           |      | 1572 | 2027 | 2838 | 3498 |
| Asp718   | (2)  | 403  | 4470 |      |      |           |      | 3606 | 4443 | 4893 | 5499 |
| Ava I    | (9)  | 333  | 399  | 500  | 2093 |           |      | 5512 | 5626 | 6032 | 6150 |
|          |      | 2285 | 3695 | 3728 | 4400 | BsrB I    | (5)  | 6193 | 6460 | 6632 | 7338 |
|          |      | 4466 |      |      |      |           |      | 1044 | 2275 | 4784 | 5025 |
| Ava II   | (15) | 188  | 201  | 256  | 553  |           |      | 6826 |      |      |      |
|          |      | 692  | 1221 | 1574 | 3376 | BsrD I    | (3)  | 3822 | 6046 | 6220 |      |
|          |      | 3431 | 4255 | 4268 | 4323 | BsrG I    | (2)  | 1284 | 3710 |      |      |
|          |      | 6123 | 6345 | 7600 |      | BssH II   | (5)  | 319  | 370  | 2476 | 4386 |
| BamH I   | (1)  | 3286 |      |      |      |           |      | 4437 |      |      |      |
| Ban I    | (18) | 246  | 403  | 1144 | 1399 | BssS I    | (5)  | 1589 | 1904 | 5265 | 6649 |
|          |      | 1689 | 1949 | 2207 | 2294 |           |      | 6956 |      |      |      |
|          |      | 2402 | 2501 | 4313 | 4470 | BstE II   | (3)  | 1089 | 1972 | 2143 |      |
|          |      | 4836 | 5933 | 7207 | 7390 | BstN I    | (26) | 243  | 550  | 737  | 750  |
|          |      | 7504 | 7525 |      |      |           |      | 1171 | 1196 | 1219 | 1239 |
| Ban II   | (12) | 340  | 353  | 1679 | 1811 |           |      | 1269 | 1719 | 2002 | 2156 |
|          |      | 1892 | 3110 | 3302 | 3317 |           |      | 2632 | 2825 | 3223 | 3370 |
|          |      | 4407 | 4420 | 7457 | 7471 |           |      | 3598 | 3751 | 3769 | 4310 |
| Bbe I    | (8)  | 1403 | 2298 | 2406 | 2505 |           |      | 4832 | 5120 | 5241 | 5254 |
|          |      | 7211 | 7394 | 7508 | 7529 |           |      | 7327 | 7604 |      |      |
| Bbs I    | (5)  | 1500 | 2252 | 3378 | 3479 | BstU I    | (28) | 319  | 321  | 372  | 905  |
|          |      | 3924 |      |      |      |           |      | 907  | 1137 | 1646 | 2115 |
| Bbv I    | (13) | 933  | 941  | 1526 | 1631 |           |      | 2205 | 2478 | 2518 | 2602 |
|          |      | 2404 | 3702 | 3834 | 3930 |           |      | 3278 | 3294 | 3540 | 4386 |
|          |      | 5511 | 5514 | 5720 | 6414 |           |      | 4388 | 4439 | 4939 | 4941 |
|          |      | 7025 |      |      |      |           |      | 5139 | 5720 | 6050 | 6543 |
| Bbv II   | (5)  | 1499 | 2251 | 3379 | 3478 |           |      | 6875 | 6975 | 6977 | 7080 |
|          |      | 3925 |      |      |      | BstX I    | (1)  | 2374 |      |      |      |
| Bcn I    | (20) | 166  | 401  | 402  | 573  | BstY I    | (12) | 2510 | 3128 | 3149 | 3170 |
|          |      | 726  | 2401 | 3303 | 3430 |           |      | 3260 | 3286 | 5733 | 5744 |
|          |      | 3730 | 3731 | 4002 | 4233 |           |      | 5830 | 5842 | 6610 | 6627 |
|          |      | 4468 | 4469 | 5473 | 6169 | Bsu36 I   | (5)  | 783  | 1020 | 2506 | 3437 |
|          |      | 6520 | 7021 | 7056 | 7407 |           |      | 3479 |      |      |      |
| Bfa I    | (14) | 31   | 221  | 663  | 675  | Cac8 I    | (37) | 28   | 32   | 321  | 372  |
|          |      | 1396 | 1524 | 1812 | 2542 |           |      | 584  | 588  | 633  | 652  |
|          |      | 4098 | 4288 | 5587 | 5840 |           |      | 1201 | 1510 | 1624 | 2478 |
|          |      | 6175 | 7610 |      |      |           |      | 2628 | 2821 | 3270 | 3313 |
| Bgl I    | (5)  | 2632 | 2754 | 2825 | 6105 |           |      | 3892 | 4095 | 4099 | 4388 |
|          |      | 7223 |      |      |      |           |      | 4439 | 4885 | 4914 | 5023 |
| Bgl II   | (4)  | 3128 | 3149 | 3170 | 3260 |           |      | 5109 | 5146 | 5706 | 6097 |
| Bpm I    | (4)  | 3244 | 4035 | 6055 | 7673 |           |      | 7110 | 7258 | 7278 | 7282 |
| Bsa I    | (7)  | 478  | 532  | 1151 | 3639 |           |      | 7378 | 7419 | 7467 | 7509 |
|          |      | 4523 | 4544 | 6046 |      |           |      | 7539 |      |      |      |
| BsaA I   | (4)  | 2047 | 2882 | 3501 | 3563 | Cfr10 I   | (5)  | 631  | 2498 | 6065 | 7528 |
| BsaB I   | (5)  | 1713 | 3127 | 3148 | 3169 |           |      | 7537 |      |      |      |
|          |      | 3190 |      |      |      | Csp6 I    | (21) | 404  | 660  | 1285 | 2029 |
| BsaH I   | (18) | 744  | 1400 | 1848 | 2295 |           |      | 2281 | 2470 | 2760 | 2785 |
|          |      | 2352 | 2403 | 2502 | 2664 |           |      | 2840 | 2873 | 2924 | 3081 |
|          |      | 2717 | 2800 | 2986 | 3229 |           |      | 3498 | 3552 | 3564 | 3621 |
|          |      | 6522 | 6904 | 7208 | 7391 |           |      | 3711 | 4471 | 6464 | 7140 |
|          |      | 7505 | 7526 |      |      |           |      | 7651 |      |      |      |
| BsaJ I   | (48) | 163  | 242  | 252  | 399  | Dde I     | (23) | 75   | 169  | 210  | 478  |
|          |      | 463  | 499  | 548  | 549  |           |      | 783  | 1020 | 1292 | 2019 |
|          |      | 696  | 735  | 736  | 748  |           |      | 2506 | 3264 | 3437 | 3479 |
|          |      | 749  | 1169 | 1238 | 1247 |           |      | 4142 | 4236 | 4277 | 4546 |
|          |      | 1267 | 1268 | 1413 | 1718 |           |      | 4617 | 5367 | 5776 | 5942 |
|          |      | 1842 | 1977 | 2001 | 2037 |           |      | 6482 | 6908 | 7143 |      |
|          |      | 2094 | 2154 | 2250 | 2286 | Dpn I     | (35) | 95   | 461  | 1048 | 1180 |
|          |      | 2355 | 2481 | 2516 | 2902 |           |      | 1365 | 1649 | 1710 | 1724 |
|          |      | 3369 | 3407 | 3538 | 3728 |           |      | 1916 | 2312 | 2512 | 3130 |
|          |      | 3800 | 3899 | 4230 | 4309 |           |      | 3151 | 3172 | 3193 | 3218 |
|          |      | 4319 | 4466 | 4529 | 4831 |           |      | 3262 | 3288 | 3424 | 4162 |
|          |      | 5252 | 7326 | 7404 | 7410 |           |      | 5660 | 5735 | 5746 | 5754 |
| BsaW I   | (3)  | 5298 | 5445 | 6276 |      |           |      | 5832 | 5844 | 5949 | 6290 |
| BseR I   | (8)  | 466  | 1295 | 1334 | 1828 |           |      | 6308 | 6354 | 6612 | 6629 |
|          |      | 1830 | 2152 | 3559 | 4532 |           |      | 6665 | 7250 | 7474 |      |
| Bsg I    | (4)  | 1602 | 2411 | 3577 | 3946 | DpnII     | (35) | 93   | 459  | 1046 | 1178 |
| BsiE I   | (10) | 594  | 729  | 1534 | 1650 |           |      | 1363 | 1647 | 1708 | 1722 |
|          |      | 3276 | 5008 | 5432 | 6355 |           |      | 1914 | 2310 | 2510 | 3128 |
|          |      | 6504 | 7251 |      |      |           |      | 3149 | 3170 | 3191 | 3216 |
| BsiHKA I | (7)  | 340  | 3110 | 4407 | 5410 |           |      | 3260 | 3286 | 3422 | 4160 |
|          |      | 6571 | 6656 | 7153 |      |           |      | 5658 | 5733 | 5744 | 5752 |
| BsmA I   | (25) | 108  | 477  | 533  | 611  |           |      | 5830 | 5842 | 5947 | 6288 |
|          |      | 736  | 834  | 951  | 1075 |           |      | 6306 | 6352 | 6610 | 6627 |
|          |      | 1134 | 1152 | 1330 | 1433 |           |      | 6663 | 7248 | 7472 |      |
|          |      | 2975 | 3221 | 3638 | 4000 | Dra I     | (4)  | 2525 | 5851 | 5870 | 6562 |
|          |      | 4052 | 4175 | 4522 | 4543 | Drd I     | (5)  | 1502 | 2357 | 3481 | 5200 |
|          |      | 6047 | 6821 | 6974 | 7018 |           |      | 7069 |      |      |      |
|          |      | 7690 |      |      |      | Dsa I     | (9)  | 696  | 1413 | 2250 | 2516 |
| BsmB I   | (8)  | 735  | 833  | 1074 | 1133 |           |      | 2902 | 3538 | 3800 | 3899 |
|          |      | 1331 | 3220 | 6975 | 7017 |           |      | 7410 |      |      |      |
| BsmF I   | (16) | 174  | 187  | 566  | 731  | Eae I     | (14) | 584  | 726  | 1111 | 1132 |
|          |      | 766  | 1207 | 1587 | 1999 |           |      | 1416 | 1531 | 1900 | 2341 |
|          |      | 2018 | 2717 | 2868 | 3036 |           |      | 2376 | 3273 | 4931 | 6373 |
|          |      | 3389 | 4241 | 4254 | 7386 |           |      | 7407 | 7539 |      |      |
| BsoF I   | (51) | 729  | 903  | 919  | 922  | Eag I     | (3)  | 726  | 1531 | 3273 |      |
|          |      | 927  | 930  | 1135 | 1515 | Ear I     | (8)  | 1072 | 1313 | 3397 | 3976 |
|          |      | 1534 | 1608 | 1611 | 1614 |           |      | 4714 | 4976 | 6780 | 7268 |
|          |      | 1617 | 1620 | 1784 | 1822 | Eco47 III | (2)  | 925  | 7446 |      |      |
|          |      | 1936 | 1984 | 2137 | 2201 | Eco57 I   | (8)  | 1511 | 1987 | 2320 | 2344 |
|          |      | 2206 | 2341 | 2393 | 2396 |           |      | 2350 | 5639 | 6653 | 7657 |
|          |      | 2488 | 3273 | 3276 | 3309 | EcoN I    | (3)  | 786  | 1394 | 3595 |      |
|          |      | 3538 | 3691 | 3823 | 3919 | EcoO109 I | (6)  | 256  | 1221 | 1574 | 4323 |
|          |      | 4917 | 4998 | 5016 | 5019 |           |      | 6961 | 7415 |      |      |
|          |      | 5137 | 5292 | 5435 | 5500 | EcoR I    | (2)  | 1406 | 4010 |      |      |
|          |      | 5503 | 5709 | 6037 | 6376 |           |      | 241  | 548  | 735  | 748  |
|          |      | 6403 | 6498 | 6727 | 7014 | EcoR II   | (26) | 1169 | 1194 | 1217 | 1237 |
|          |      | 7123 | 7227 | 7300 |      |           |      | 1267 | 1717 | 2000 | 2154 |
| Bsp120 I | (1)  | 3298 |      |      |      |           |      | 2630 | 2823 | 3221 | 3368 |
| BspH I   | (5)  | 3419 | 5812 | 6820 | 6925 |           |      | 3596 | 3749 | 3767 | 4308 |
|          |      | 7449 |      |      |      |           |      | 4830 | 5118 | 5239 | 5252 |

|          |      |      |      |      |      |  |  |  |         |      |      |      |           |
|----------|------|------|------|------|------|--|--|--|---------|------|------|------|-----------|
|          |      | 7325 | 7602 |      |      |  |  |  |         | 7207 | 7390 | 7504 | 7525      |
| EcoR V   | (3)  | 141  | 4208 | 7593 |      |  |  |  | Kpn I   | (2)  | 407  | 4474 |           |
| Ehe I    | (8)  | 1401 | 2296 | 2404 | 2503 |  |  |  | Mae I   | (14) | 31   | 221  | 663 675   |
| Fnu4H I  | (51) | 729  | 7392 | 7506 | 7527 |  |  |  |         |      | 1396 | 1524 | 1812 2542 |
|          |      | 927  | 930  | 919  | 922  |  |  |  |         |      | 4098 | 4288 | 5587 5840 |
|          |      | 927  | 930  | 1135 | 1515 |  |  |  |         |      | 6175 | 7610 |           |
|          |      | 1534 | 1608 | 1611 | 1614 |  |  |  | Mae II  | (20) | 744  | 1083 | 1124 1848 |
|          |      | 1617 | 1620 | 1784 | 1822 |  |  |  |         |      | 2046 | 2664 | 2676 2717 |
|          |      | 1936 | 1984 | 2137 | 2201 |  |  |  |         |      | 2800 | 2881 | 2986 3461 |
|          |      | 2206 | 2341 | 2393 | 2396 |  |  |  |         |      | 3500 | 3562 | 3929 5795 |
|          |      | 2488 | 3273 | 3276 | 3309 |  |  |  |         |      | 6211 | 6584 | 6904 7346 |
|          |      | 3538 | 3691 | 3823 | 3919 |  |  |  | Mae III | (26) | 39   | 996  | 1024 1089 |
|          |      | 4917 | 4998 | 5016 | 5019 |  |  |  |         |      | 1233 | 1972 | 2143 2149 |
|          |      | 5137 | 5292 | 5435 | 5500 |  |  |  |         |      | 2603 | 2690 | 3039 3325 |
|          |      | 5503 | 5709 | 6037 | 6376 |  |  |  |         |      | 3441 | 4106 | 4584 5448 |
|          |      | 6403 | 6498 | 6727 | 7014 |  |  |  |         |      | 5511 | 5627 | 5910 6241 |
|          |      | 7123 | 7227 | 7300 |      |  |  |  |         |      | 6299 | 6452 | 6640 7028 |
| Fok I    | (17) | 425  | 1142 | 1302 | 1466 |  |  |  |         |      | 7319 | 7339 |           |
|          |      | 1701 | 1994 | 2051 | 2290 |  |  |  | Mbo I   | (35) | 93   | 459  | 1046 1178 |
|          |      | 3219 | 3711 | 3745 | 4491 |  |  |  |         |      | 1363 | 1647 | 1708 1722 |
|          |      | 5951 | 6132 | 6419 | 7062 |  |  |  |         |      | 1914 | 2310 | 2510 3128 |
|          |      | 7306 |      |      |      |  |  |  |         |      | 3149 | 3170 | 3191 3216 |
| Fsp I    | (3)  | 1880 | 6207 | 7230 |      |  |  |  |         |      | 3260 | 3286 | 3422 4160 |
| Gdi II   | (13) | 725  | 727  | 1131 | 1530 |  |  |  |         |      | 5658 | 5733 | 5744 5752 |
|          |      | 1532 | 1901 | 2342 | 3272 |  |  |  |         |      | 5830 | 5842 | 5947 6288 |
|          |      | 3274 | 4932 | 6372 | 7408 |  |  |  |         |      | 6306 | 6352 | 6610 6627 |
|          |      | 7540 |      |      |      |  |  |  |         |      | 6663 | 7248 | 7472      |
| Gsu I    | (4)  | 3243 | 4036 | 6056 | 7674 |  |  |  | Mbo II  | (23) | 1088 | 1301 | 1447 1504 |
| Hae I    | (10) | 586  | 1113 | 1418 | 1835 |  |  |  |         |      | 1532 | 2253 | 2256 3269 |
|          |      | 2042 | 2264 | 2378 | 5107 |  |  |  |         |      | 3379 | 3385 | 3483 3871 |
|          |      | 5118 | 5570 |      |      |  |  |  |         |      | 3925 | 3992 | 4730 4964 |
| Hae II   | (12) | 927  | 1403 | 2298 | 2406 |  |  |  |         |      | 5753 | 5826 | 6581 6659 |
|          |      | 2505 | 4970 | 5340 | 7211 |  |  |  |         |      | 6768 | 7256 | 7468      |
|          |      | 7394 | 7448 | 7508 | 7529 |  |  |  |         |      |      |      |           |
| Hae III  | (41) | 130  | 175  | 586  | 728  |  |  |  | Mlu I   | (1)  | 3292 |      |           |
|          |      | 764  | 776  | 989  | 1113 |  |  |  | Mme I   | (9)  | 831  | 1108 | 2246 3661 |
|          |      | 1134 | 1199 | 1418 | 1533 |  |  |  |         |      | 3889 | 4531 | 4583 5306 |
|          |      | 1835 | 1902 | 1935 | 1986 |  |  |  |         |      | 5490 |      |           |
|          |      | 2042 | 2229 | 2264 | 2343 |  |  |  | Mnl I   | (84) | 218  | 370  | 389 434   |
|          |      | 2378 | 2487 | 2626 | 2819 |  |  |  |         |      | 462  | 486  | 508 512   |
|          |      | 3275 | 3300 | 4197 | 4242 |  |  |  |         |      | 568  | 778  | 874 1170  |
|          |      | 4933 | 5107 | 5118 | 5136 |  |  |  |         |      | 1273 | 1306 | 1312 1315 |
|          |      | 5570 | 6028 | 6108 | 6375 |  |  |  |         |      | 1321 | 1351 | 1354 1369 |
|          |      | 6962 | 7260 | 7409 | 7417 |  |  |  |         |      | 1376 | 1392 | 1456 1797 |
|          |      | 7541 |      |      |      |  |  |  |         |      | 1798 | 1808 | 1811 1820 |
|          |      |      |      |      |      |  |  |  |         |      | 1837 | 1845 | 1848 1879 |
| Hga I    | (15) | 383  | 644  | 897  | 1493 |  |  |  |         |      | 1912 | 1918 | 1924 1939 |
|          |      | 2359 | 3067 | 3236 | 3268 |  |  |  |         |      | 2027 | 2089 | 2122 2172 |
|          |      | 3568 | 4450 | 5202 | 5780 |  |  |  |         |      | 2229 | 2254 | 2274 2281 |
|          |      | 6512 | 7070 | 7539 |      |  |  |  |         |      | 2313 | 2350 | 2440 2445 |
| HgiA I   | (7)  | 340  | 3110 | 4407 | 5410 |  |  |  |         |      | 2476 | 3083 | 3259 3298 |
|          |      | 6571 | 6656 | 7153 |      |  |  |  |         |      | 3399 | 3426 | 3432 3474 |
| HgiE II  | (2)  | 5671 | 7151 |      |      |  |  |  |         |      | 3507 | 3537 | 3591 3657 |
| Hha I    | (45) | 321  | 323  | 372  | 374  |  |  |  |         |      | 3859 | 3891 | 3948 3996 |
|          |      | 650  | 907  | 926  | 1402 |  |  |  |         |      | 4285 | 4437 | 4456 4501 |
|          |      | 1514 | 1869 | 1881 | 2115 |  |  |  |         |      | 4528 | 4552 | 4612 4941 |
|          |      | 2205 | 2297 | 2405 | 2478 |  |  |  |         |      | 4990 | 5200 | 5273 5524 |
|          |      | 2480 | 2504 | 4388 | 4390 |  |  |  |         |      | 5924 | 6005 | 6151 6357 |
|          |      | 4439 | 4441 | 4716 | 4876 |  |  |  |         |      | 6952 | 7010 | 7270 7554 |
|          |      | 4941 | 4969 | 5002 | 5272 |  |  |  |         |      | 586  | 1113 | 1418 2378 |
|          |      | 5339 | 5439 | 5613 | 5722 |  |  |  | Msc I   | (4)  | 36   | 1009 | 1121 1151 |
|          |      | 6115 | 6208 | 6545 | 6877 |  |  |  | Mse I   | (26) | 1175 | 2524 | 2549 4016 |
|          |      | 6977 | 7080 | 7210 | 7231 |  |  |  |         |      | 4020 | 4103 | 4637 4735 |
|          |      | 7364 | 7393 | 7447 | 7507 |  |  |  |         |      | 4863 | 4922 | 5798 5850 |
|          |      | 7528 |      |      |      |  |  |  |         |      | 5855 | 5869 | 5922 6157 |
| Hinc II  | (1)  | 3282 |      |      |      |  |  |  |         |      | 6196 | 6561 | 6933 7114 |
| Hind II  | (1)  | 3282 |      |      |      |  |  |  |         |      | 7311 | 7581 |           |
| Hind III | (1)  | 3266 |      |      |      |  |  |  |         |      | 7311 | 7581 |           |
| Hinf I   | (18) | 444  | 452  | 793  | 804  |  |  |  | Msl I   | (4)  | 2907 | 3799 | 6237 6396 |
|          |      | 1439 | 1771 | 2159 | 2952 |  |  |  | Msp I   | (31) | 165  | 400  | 571 632   |
|          |      | 3862 | 4627 | 4649 | 4670 |  |  |  |         |      | 725  | 1403 | 2400 2499 |
|          |      | 4927 | 4992 | 5067 | 5463 |  |  |  |         |      | 3302 | 3429 | 3729 3826 |
|          |      | 5980 | 7618 |      |      |  |  |  |         |      | 4000 | 4232 | 4467 4810 |
| HinI I   | (18) | 744  | 1400 | 1848 | 2295 |  |  |  |         |      | 5299 | 5446 | 5472 5662 |
|          |      | 2352 | 2403 | 2502 | 2664 |  |  |  |         |      | 6066 | 6100 | 6167 6277 |
|          |      | 2717 | 2800 | 2986 | 3229 |  |  |  |         |      | 6519 | 7020 | 7054 7406 |
|          |      | 6522 | 6904 | 7208 | 7391 |  |  |  |         |      | 7529 | 7538 | 7553      |
|          |      | 7505 | 7526 |      |      |  |  |  |         |      |      |      |           |
| HinP I   | (45) | 319  | 321  | 370  | 372  |  |  |  | MspAl I | (13) | 590  | 1622 | 2395 2518 |
|          |      | 648  | 905  | 924  | 1400 |  |  |  |         |      | 3540 | 4568 | 4916 5434 |
|          |      | 1512 | 1867 | 1879 | 2113 |  |  |  |         |      | 5679 | 6620 | 7086 7280 |
|          |      | 2203 | 2295 | 2403 | 2476 |  |  |  |         |      | 7636 |      |           |
|          |      | 2478 | 2502 | 4386 | 4388 |  |  |  | Nae I   | (2)  | 633  | 7539 |           |
|          |      | 4437 | 4439 | 4714 | 4874 |  |  |  | Nar I   | (8)  | 1400 | 2295 | 2403 2502 |
|          |      | 4939 | 4967 | 5000 | 5270 |  |  |  |         |      | 7208 | 7391 | 7505 7526 |
|          |      | 5337 | 5437 | 5611 | 5720 |  |  |  | Nci I   | (20) | 165  | 400  | 401 572   |
|          |      | 6113 | 6206 | 6543 | 6875 |  |  |  |         |      | 725  | 2400 | 3302 3429 |
|          |      | 6975 | 7078 | 7208 | 7229 |  |  |  |         |      | 3729 | 3730 | 4001 4232 |
|          |      | 7362 | 7391 | 7445 | 7505 |  |  |  |         |      | 4467 | 4468 | 5472 6168 |
|          |      | 7526 |      |      |      |  |  |  |         |      | 6519 | 7020 | 7055 7406 |
| Hpa II   | (31) | 165  | 400  | 571  | 632  |  |  |  | Nco I   | (3)  | 1413 | 2250 | 2902      |
|          |      | 725  | 1403 | 2400 | 2499 |  |  |  | Nde I   | (2)  | 2776 | 7156 |           |
|          |      | 3302 | 3429 | 3729 | 3826 |  |  |  | Ngom I  | (2)  | 631  | 7537 |           |
|          |      | 4000 | 4232 | 4467 | 4810 |  |  |  | Nhe I   | (2)  | 30   | 4097 |           |
|          |      | 5299 | 5446 | 5472 | 5662 |  |  |  | Nla III | (28) | 62   | 1207 | 1417 1867 |
|          |      | 6066 | 6100 | 6167 | 6277 |  |  |  |         |      | 1885 | 2254 | 2377 2846 |
|          |      | 6519 | 7020 | 7054 | 7406 |  |  |  |         |      | 2906 | 3344 | 3423 3449 |
|          |      | 7529 | 7538 | 7553 |      |  |  |  |         |      | 3941 | 3955 | 4129 4583 |
| Hph I    | (20) | 1159 | 1185 | 1403 | 1983 |  |  |  |         |      | 4750 | 5096 | 5816 6307 |
|          |      | 2154 | 2205 | 2426 | 2917 |  |  |  |         |      | 6317 | 6395 | 6431 6824 |
|          |      | 3577 | 3889 | 5829 | 6056 |  |  |  |         |      | 6929 | 7013 | 7380 7453 |
|          |      | 6470 | 6678 | 6711 | 6995 |  |  |  |         |      | 190  | 203  | 248 405   |
|          |      | 7004 | 7497 | 7542 | 7623 |  |  |  |         |      | 523  | 554  | 694 763   |
| Kas I    | (8)  | 1399 | 2294 | 2402 | 2501 |  |  |  | Nla IV  | (46) | 895  | 1146 | 1223 1401 |
|          |      |      |      |      |      |  |  |  |         |      | 1575 | 1691 | 1891 1951 |
|          |      |      |      |      |      |  |  |  |         |      | 1987 | 2035 | 2209 2230 |



|           |             |    |           |               |    |           |                    |    |          |             |    |
|-----------|-------------|----|-----------|---------------|----|-----------|--------------------|----|----------|-------------|----|
| Not I     | GC`GGCC,GC  | 1  | Nru I     | TCG CGA       | 1  | ScrF I    | CC`N,GG            | 46 | Sec I    | C`CNNG,G    | 48 |
| Nsi I     | A,TGCA`T    | 1  | Nsp7524 I | R`CATG,Y      | 5  | SfaN I    | GCATC 9/13         | 22 | Sfc I    | C`TRYA,G    | 12 |
| NspB II   | CMG CKG     | 13 | NspH I    | R,CATG`Y      | 5  | Sfi I     | GGCCN,NNN`NGGCC    | -  | Sma I    | CCC GGG     | 3  |
| Pac I     | TTA,AT`TAA  | 1  | PaeR7 I   | C`TCGA,G      | -  | SnaB I    | TAC GTA            | 1  | Spe I    | A`CTAG,T    | 2  |
| Pal I     | GG CC       | 41 | PflM I    | CCAN,NNN`NTGG | 1  | Sph I     | G,CATG`C           | 1  | SpI I    | C`GTAC,G    | -  |
| Ple I     | GAGTC 9/10  | 3  | Pme I     | CTTT AAAC     | 1  | Srf I     | GCCC GGGC          | -  | Ssp I    | AAT ATT     | 2  |
| Pml I     | CAC GTG     | -  | PpuM I    | RG`GWC,CY     | 4  | Stu I     | AGG CCT            | 2  | Sty I    | C`CWWG,G    | 11 |
| Psp1406 I | AA`CG,TT    | 2  | PspA I    | C`CCGG,G      | 3  | Taq I     | T`CG,A             | 14 | Tfi I    | G`AWT,C     | 7  |
| Pst I     | C,TGCA`G    | 4  | Pvu I     | CG,AT`CG      | 3  | Tsp45 I   | `GTSAC,            | 11 | Tth111 I | GACN`N,NGTC | 4  |
| Pvu II    | CAG CTG     | 5  | Rsa I     | GT AC         | 21 | Tth111 II | CAARCA 16/14       | 8  | Vsp I    | AT`TA,AT    | 5  |
| Rsr II    | CG`GWC,CG   | -  | Sac I     | G,AGCT`C      | 3  | Xba I     | T`CTAG,A           | 3  | Xca I    | GTA TAC     | -  |
| Sac II    | CC,GC`GG    | 2  | Sal I     | G`TCGA,C      | 1  | Xcm I     | CCANNNN,N`NNNNTGG- | -  | Xho I    | C`TCGA,G    | -  |
| Sap I     | GCTCTC 8/11 | 3  | Sau3A I   | `GATC,        | 35 | Xho II    | R`GATC,Y           | 12 | Xma I    | C`CCGG,G    | 3  |
| Sau96 I   | G`GNC,C     | 36 | Sca I     | AGT ACT       | 1  | Xma III   | C`GGCC,G           | 3  | Xmn I    | GAANN NNTTC | 4  |