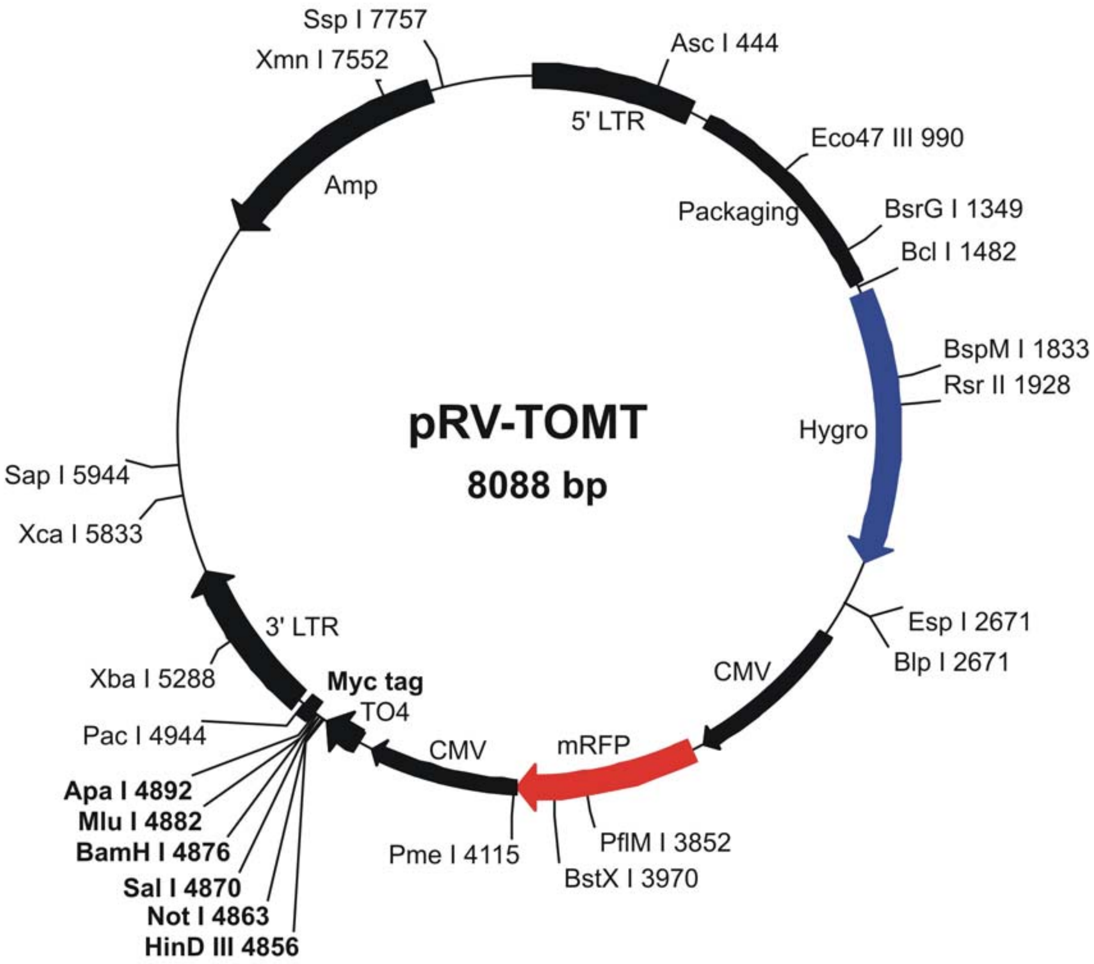
Name of Vector: pRV-TOMT
Antibiotic Selection: Amp
Created by: Hong Yin
(He Lab @ The University of Chicago)
Date of Creation: February 2005



Linker Sequence

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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

gaa caa aaa ctc atc tca gaa gag gat ctg TGA attcttaattaa
 E   Q   K   L   I   S   E   E   D   L
                                        EcoR I (1/4) Pac I
                 Myc Tag
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pRV-TOMT (Myc tag) Full-length Sequence

TTTGAAAGAC CCCACCCGTA GGTGGCAAGC TAGCTTAAGT AACGCCACTT TGCAAGGCAT GGAAAAATAC
ATAACTGAGA ATAGAAAAGT TCAGATCAAG GTCAGGAACA AAGAAACAGC TGAATACCAA ACAGGATATC
TGTGGTAAGC GGTTCCTGCC CCGGCTCAGG GCCAAGAACA GATGAGACAG CTGAGTGATG GGCCAAACAG
GATATCTGTG GTAAGCAGTT CCTGCCCCGG CTCGGGGCCA AGAACAGATG GTCCCCAGAT GCGGTCCAGC
CCTCAGCAGT TTCTAGTGAA TCATCAGATG TTTCCAGGGT GCCCCAAGGA CCTGAAAATG ACCCTGTACC
TTATTTGAAC TAACCAATCA GTTCGCTTCT CGCTTCTGTT CGCGCGCTTC CGCTCTCCGA GCTCAATAAA
AGAGCCCACA ACCCCTCACT CGGCGCGCCA GTCTTCCGAT AGACTGCGTC GCCCGGGTAC CCGTATTCCC
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ATCGCCGCCC GTGCCTGCCG ATTGGGTGC**aga tc**c
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GCGGGCTTCT GCCTCTTAGA CCACTCTACC CTATTCCCCA CACTCACCGG AGCCAAAGCC GCGGCCCTTC
CGTTTCTTTG CT

Unique enzymes in pRV-TOMT:

```
Asc I       GG`CGCG,CC      444
Eco47 III   AGC|GCT         990
BsrG I      T`GTAC,A        1349
Bcl I       T`GATC,A        1482
BspM I      ACCTGC 10/14    1833
Rsr II      CG`GWC,CG       1928
Blp I       GC`TNA,GC       2671
Esp I       GC`TNA,GC       2671
PflM I      CCAN,NNN`NTGG   3852
BstX I      CCAN,NNNN`NTGG  3970
Pme I       CTTT|AAAC       4115
HinD III    A`AGCT,T        4856
Not I       GC`GGCC,GC      4863
Sal I       G`TCGA,C        4870
BamH I      G`GATC,C        4876
Mlu I       A`CGCG,T        4882
Bsp120 I    G`GGCC,C        4888
Apa I       G,GGCC`C        4892
Pac I       TTA,AT`TAA      4944
Xba I       T`CTAG,A        5288
Bst1107 I   GTA|TAC         5833
Xca I       GTA|TAC         5833
Sap I       GCTCTTC 8/11    5944
Xmn I       GAANN|NNTTC     7552
Ssp I       AAT|ATT         7757
Number of enzymes = 25
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The following enzymes do not cut in pRV-TOMT:

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Age I      Avr II     BsiC I     BsiW I     Bsm I
Bsp1286 I  BstB I     Cla I      Eco72 I    Fse I
Hpa I      Mun I      Nae I      NgoM I     Nru I
Nsi I      PaeR7 I    Pml I      Sfi I      Sph I
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pRV-TOMT: sites sorted by name:

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Aat II      (12)  812      1547     2954     3007
                  3090     3276     3447     4257
                  4310     4393     4579     7875
Acc I       (2)   4871     5832
Acc65 I     (2)   477      5471
Aci I       (100) 150      272      401      755
                  794      927      968      1109
                  1200     1266     1365     1384
                  1422     1539     1663     1728
                  1795     1845     1865     1889
                  1911     1931     2108     2146
                  2156     2269     2297     2299
                  2320     2449     2459     2692
                  2789     2806     2887     2915
                  2927     2941     3108     3199
                  3232     3336     3357     3418
                  3532     3555     3579     3654
                  3732     3801     3871     3936
                  4084     4190     4218     4230
                  4244     4411     4502     4535
                  4639     4660     4862     4866
                  4898     5267     5569     5733
                  5772     5782     5824     5849
                  5887     5900     5926     5943
                  5986     5993     6014     6105
                  6133     6260     6279     6400
                  6510     6645     6654     7016
                  7107     7298     7344     7465
                  7509     7586     7695     7794
                  7841     8008     8066     8068
Afl II      (3)   35       1073     5026
Afl III     (2)   4882     6060
Aha II      (21)  809      1465     1544     2512
                  2951     3004     3087     3273
                  3444     3891     3948     3999
                  4098     4254     4307     4390
                  4576     4819     5440     7490
                  7872
Ahd I       (5)   1087     3607     5516     5562
                  6953
Alu I       (44)  30       34       120      191
                  412      655      735      743
                  1488     1600     1632     1674
                  2059     2284     2349     2378
                  2568     2675     3395     3562
                  3679     3796     3925     3991
                  4021     4698     4788     4858
                  5021     5025     5112     5187
                  5406     5649     5702     5721
                  6002     6228     6318     6364
                  6621     7142     7242     7305
Alw I       (22)  1118     1424     1513     1980
                  2298     2407     2780     2827
                  3410     4113     4872     4883
                  4933     5606     6622     6708
                  6708     6805     6806     7270
                  7585     7591
AlwN I      (4)   232      5152     5227     6476
Apa I       (1)   4892
ApaL I      (5)   1800     2102     5876     6374
                  7620
Apo I       (6)   939      1471     1763     4934
                  7946     8002
Asc I       (1)   444
Ase I       (2)   4139     7125
Asp718      (2)   477      5471
Ava I       (8)   242      473      2769     3689
                  3881     5401     5434     5467
Ava II      (15)  261      274      329      627
                  757      1286     1928     2469
                  2737     5256     5269     5324
                  5621     7091     7313
BamH I      (1)   4876
Ban I       (15)  319      477      1209     1464
                  2094     3294     3545     3803
                  3890     3998     4097     5314
                  5439     5471     6901
Ban II      (9)   414      427      598      3488
                  4700     4892     5408     5421
                  5592
Bbe I       (5)   1468     3894     4002     4101
                  5443
Bbs I       (3)   445      3848     7931
Bbv I       (13)  998      1006     1609     1867
                  2260     2387     4000     5711
                  5808     6479     6482     6688
                  7382
Bbv II      (3)   446      3847     7932
Bcl I       (1)   1482
Bcn I       (22)  163      239      475      476
                  604      646      791      2307
                  2423     3997     4893     5159
                  5234     5469     5470     5598
                  5640     5707     5742     6441
                  7137     7488
Bfa I       (14)  31       294      690      728
                  740      1461     2608     3421
                  4132     5022     5289     6555
                  6808     7143
Bgl I       (7)   2919     3041     3112     4222
                  4344     4415     7073
Bgl II      (4)   4718     4739     4760     4850
Blp I       (1)   2671
Bpm I       (5)   2188     2242     4834     4959
                  7023
Bsa I       (8)   531      552      606      1216
                  5524     5545     5600     7014
BsaA I      (4)   3169     3643     4472     5814
BsaB I      (4)   4717     4738     4759     4780
BsaH I      (21)  809      1465     1544     2512
                  2951     3004     3087     3273
                  3444     3891     3948     3999
                  4098     4254     4307     4390
                  4576     4819     5440     7490
                  7872
BsaJ I      (48)  160      236      315      325
                  473      537      622      623
                  761      800      801      813
                  814      1234     1303     1312
                  1332     1333     1872     2073
                  2228     2297     2528     2741
                  2742     3189     3426     3438
                  3573     3597     3633     3690
                  3750     3846     3882     3951
                  4077     4492     5156     5231
                  5310     5320     5467     5530
                  5616     5617     6220     8066
BsaW I      (8)   1520     1741     2278     2414
                  6266     6413     7244     8053
BseR I      (6)   540      1360     1399     3424
                  3748     5533
Bsg I       (2)   2848     4007
BsiE I      (13)  794      1728     1863     1884
                  1893     2463     2558     2705
                  4866     5976     6400     7323
                  7472
BsiHKA I    (9)   414      1804     2106     4700
                  5408     5880     6378     7539
                  7624
BsmA I      (22)  180      530      551      607
                  801      899      1016     1140
                  1199     1217     1395     1587
                  3262     4565     4811     4976
                  5523     5544     5601     5704
                  7015     7789
BsmB I      (8)   800      898      1139     1198
                  1396     1588     4810     5703
BsmF I      (18)  247      640      796      831
                  1272     2437     2723     3004
                  3155     3323     3595     3614
                  4307     4458     4626     5242
                  5634     7970
BsoF I      (53)  794      968      984      987
                  992      995      1200     1598
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                  1675      1728      1856      1887
                  1890      2146      2249      2297
                  2300      2376      2460      2806
                  3532      3580      3733      3797
                  3802      3937      3989      3992
                  4084      4863      4866      4899
                  5654      5700      5797      5850
                  5966      5984      5987      6105
                  6260      6403      6468      6471
                  6677      7005      7194      7344
                  7371      7466      7695      8066
                  8069
Bsp120 I    (1)   4888
BspH I      (3)   6780      7788      7893
BspM I      (1)   1833
BspM II     (4)   1520      1741      2278      2414
Bsr I       (19)  450       1097      1125      2005
                  2170      3125      3623      4428
                  5444      5808      5839      6467
                  6480      6594      7000      7118
                  7161      7428      7600
BsrB I      (7)   403       1109      1911      2269
                  3871      5993      7794
BsrD I      (2)   7014      7188
BsrG I      (1)   1349
BssH II     (4)   393       444       4072      5387
BssS I      (6)   1620      2099      3500      6233
                  7617      7924
Bst1107 I   (1)   5833
BstE II     (3)   1154      3568      3739
BstN I      (22)  316       624       802       815
                  1236      1261      1284      1304
                  1334      2743      2919      3112
                  3598      3752      4222      4415
                  4813      5311      5618      6088
                  6209      6222
BstU I      (37)  393       395       446       970
                  972       1202      1541      1730
                  1865      1976      2042      2108
                  2257      2299      2459      2600
                  2602      2692      2889      3711
                  3801      4074      4192      4868
                  4884      5387      5389      5661
                  5663      5766      6107      6688
                  7018      7511      7843      8008
                  8068
BstX I      (1)   3970
BstY I      (16)  1517      2831      3414      4106
                  4718      4739      4760      4850
                  4876      4926      6701      6712
                  6798      6810      7578      7595
Bsu36 I     (3)   848       1085      4102
Cac8 I      (35)  28        32        395       446
                  657       661       717       1266
                  1490      1845      2046      2106
                  2286      2449      2591      2604
                  2677      2816      2915      3108
                  4074      4218      4411      4860
                  5019      5023      5389      5651
                  5991      6077      6114      6674
                  7065      7198      8010
Cfr10 I     (4)   1858      2700      4094      7033
Csp6 I      (25)  347       478       725       1350
                  1502      2436      2489      3047
                  3072      3127      3160      3211
                  3368      3625      3877      4066
                  4350      4375      4430      4463
                  4514      4671      5472      5867
                  7432
Dde I       (28)  76        166       192       283
                  554       848       1085      1357
                  1898      2585      2671      3615
                  4102      4854      4917      5067
                  5162      5237      5278      5459
                  5547      5870      6335      6744
                  6910      7450      7876      8022
Dpn I       (46)  96        1113      1245      1430
                  1479      1484      1519      1565
                  1698      1883      1896      1986
                  2293      2413      2777      2786
                  2802      2833      3416      3512
                  3908      4108      4720      4741
                  4762      4783      4808      4852
                  4878      4928      5087      5601
                  6628      6703      6714      6722
                  6800      6812      6917      7258
                  7276      7322      7580      7597
                  7633      7959
DpnII       (46)  94        1111      1243      1428
                  1477      1482      1517      1563
                  1696      1881      1894      1984
                  2291      2411      2775      2784
                  2800      2831      3414      3510
                  3906      4106      4718      4739
                  4760      4781      4806      4850
                  4876      4926      5085      5599
                  6626      6701      6712      6720
                  6798      6810      6915      7256
                  7274      7320      7578      7595
                  7631      7957
Dra I       (4)   4115      6819      6838      7530
Dra III     (2)   1808      2101
Drd I       (5)   2024      2405      3953      5755
                  6168
Dsa I       (9)   761       1872      2228      2297
                  3189      3426      3846      4492
                  8066
Eae I       (13)  657       791       1176      1197
                  1725      1890      2143      2460
                  3496      3937      3972      4863
                  7341
Eag I       (5)   791       1725      1890      2460
                  4863
Ear I       (5)   1137      1378      4916      5944
                  7748
Eco47 III   (1)   990
Eco57 I     (6)   3583      3916      3940      3946
                  6607      7621
EcoN I      (2)   851       1459
EcoO109 I   (5)   329       1286      2718      5324
                  7929
EcoR I      (4)   1471      1763      4934      7946
EcoR II     (22)  314       622       800       813
                  1234      1259      1282      1302
                  1332      2741      2917      3110
                  3596      3750      4220      4413
                  4811      5309      5616      6086
                  6207      6220
EcoR V      (4)   138       214       5134      5209
Ehe I       (5)   1466      3892      4000      4099
                  5441
Esp I       (1)   2671
Fnu4H I     (53)  794       968       984       987
                  992       995       1200      1598
                  1675      1728      1856      1887
                  1890      2146      2249      2297
                  2300      2376      2460      2806
                  3532      3580      3733      3797
                  3802      3937      3989      3992
                  4084      4863      4866      4899
                  5654      5700      5797      5850
                  5966      5984      5987      6105
                  6260      6403      6468      6471
                  6677      7005      7194      7344
                  7371      7466      7695      8066
                  8069
Fok I       (14)  499       1207      1367      1889
                  2262      3590      3647      3886
                  4809      5492      5748      6919
                  7100      7387
Fsp I       (2)   3476      7175
Gdi II      (15)  790       792       1196      1724
                  1726      1889      1891      2142
                  2459      2461      3497      3938
                  4862      4864      7340
Gsu I       (5)   2187      2241      4833      4960
                  7024
Hae I       (10)  659       1178      1871      3431
                  3638      3860      3974      6075
                  6086      6538
Hae II      (8)   992       1468      3894      4002
                  4101      5443      5938      6308
Hae III     (51)  172       203       248       659
                  793       829       841       1054
                  1178      1199      1264      1727
                  1871      1892      1920      2072
                  2145      2227      2462      2633
                  2700      2719      2913      3106
                  3431      3498      3531      3582
                  3638      3825      3860      3939
                  3974      4083      4216      4409
                  4865      4890      5123      5168
                  5198      5243      6075      6086
                  6104      6538      6996      7076
                  7343      7930      8071
Hga I       (17)  457       709       962       1571
                  2023      2262      2407      2519
                  3354      3955      4657      4826
                  4858      5756      6170      6748
                  7480
HgiA I      (9)   414       1804      2106      4700
                  5408      5880      6378      7539
                  7624
HgiE II     (2)   5878      6639
Hha I       (42)  395       397       446       448
                  715       972       991       1467
                  1679      1732      1976      2044
                  2259      2386      2459      2602
                  3465      3477      3711      3801
                  3893      4001      4074      4076
                  4100      5389      5391      5442
                  5663      5766      5796      5937
                  5970      6240      6307      6407
                  6581      6690      7083      7176
                  7513      7845
HinC II     (3)   2356      4872      7494
Hind II     (3)   2356      4872      7494
HinD III    (1)   4856
Hinf I      (17)  299       518       858       869
                  1616      1738      1938      2189
                  2712      3239      3755      4542
                  5461      5960      6035      6431
                  6948
HinI I      (21)  809       1465      1544      2512
                  2951      3004      3087      3273
                  3444      3891      3948      3999
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                  4098    4254    4307    4390
                  4576    4819    5440    7490
                  7872
HinP I      (42)  393     395     444     446
                  713     970     989     1465
                  1677    1730    1974    2042
                  2257    2384    2457    2600
                  3463    3475    3709    3799
                  3891    3999    4072    4074
                  4098    5387    5389    5440
                  5661    5764    5794    5935
                  5968    6238    6305    6405
                  6579    6688    7081    7174
                  7511    7843
Hpa II      (36)  162     238     474     602
                  644     790     1468    1521
                  1742    1859    2092    2279
                  2305    2415    2421    2701
                  3996    4095    4892    5158
                  5233    5468    5596    5638
                  5706    5740    6267    6414
                  6440    6630    7034    7068
                  7135    7245    7487    8054
Hph I       (19)  1224    1250    1529    2784
                  3204    3579    3750    3801
                  4022    4507    5681    5690
                  6797    7024    7438    7646
                  7679    7953    8044
Kas I       (5)   1464    3890    3998    4097
                  5439
Kpn I       (2)   481     5475
Mae I       (14)  31      294     690     728
                  740     1461    2608    3421
                  4132    5022    5289    6555
                  6808    7143
Mae II      (24)  809     1148    1189    1544
                  1814    2951    2963    3004
                  3087    3168    3273    3444
                  3642    4254    4266    4307
                  4390    4471    4576    5813
                  6763    7179    7552    7872
Mae III     (26)  39      1061    1089    1154
                  1298    1810    2890    2977
                  3326    3568    3739    3745
                  4193    4280    4629    5030
                  5714    5809    6416    6479
                  6595    6878    7209    7267
                  7420    7608
Mbo I       (46)  94      1111    1243    1428
                  1477    1482    1517    1563
                  1696    1881    1894    1984
                  2291    2411    2775    2784
                  2800    2831    3414    3510
                  3906    4106    4718    4739
                  4760    4781    4806    4850
                  4876    4926    5085    5599
                  6626    6701    6712    6720
                  6798    6810    6915    7256
                  7274    7320    7578    7595
                  7631    7957
Mbo II      (17)  446     1153    1366    1624
                  2207    2210    3849    3852
                  4859    4932    5932    6721
                  6794    7549    7627    7736
                  7932
Mlu I       (1)   4882
Mme I       (8)   896     1173    1610    2144
                  3842    5532    6274    6458
Mnl I       (78)  291     444     508     536
                  560     641     843     939
                  1235    1338    1371    1377
                  1380    1386    1416    1419
                  1434    1441    1457    1600
                  1637    1861    2068    2107
                  2167    2194    2217    2265
                  2523    2593    2689    3370
                  3433    3441    3444    3475
                  3508    3514    3520    3535
                  3623    3685    3718    3768
                  3825    3850    3870    3877
                  3909    3946    4036    4041
                  4072    4673    4849    4888
                  4917    5286    5438    5457
                  5502    5529    5553    5635
                  5666    5696    5958    6168
                  6241    6492    6892    6973
                  7119    7325    7920    7983
                  7999    8028
Msc I       (3)   659     1178    3974
Mse I       (20)  36      1074    1186    1216
                  1240    4114    4139    4940
                  4944    5027    5841    6766
                  6818    6823    6837    6890
                  7125    7164    7529    7901
Msl I       (4)   3194    4497    7205    7364
Msp I       (36)  162     238     474     602
                  644     790     1468    1521
                  1742    1859    2092    2279
                  2305    2415    2421    2701
                  3996    4095    4892    5158
                  5233    5468    5596    5638
                  5706    5740    6267    6414
                  6440    6630    7034    7068
                  7135    7245    7487    8054
MspA1 I     (14)  120     191     1847    2156
                  2299    3991    5112    5187
                  5569    5772    6402    6647
                  7588    8068
Nar I       (5)   1465    3891    3999    4098
                  5440
Nci I       (22)  162     238     474     475
                  603     645     790     2306
                  2422    3996    4892    5158
                  5233    5468    5469    5597
                  5639    5706    5741    6440
                  7136    7487
Nco I       (5)   1872    3189    3426    3846
                  4492
Nde I       (4)   1970    3063    4366    5883
Nhe I       (2)   30      5021
Nla III     (26)  62      1272    1876    1959
                  1994    2760    3133    3193
                  3430    3463    3481    3850
                  3973    4436    4496    5053
                  5699    5804    6064    6784
                  7275    7285    7363    7399
                  7792    7897
Nla IV      (43)  154     247     263     321
                  479     628     759     828
                  960     1211    1288    1466
                  2096    2119    2303    2419
                  2739    3296    3487    3547
                  3583    3631    3805    3826
                  3892    4000    4099    4599
                  4878    4890    5258    5316
                  5441    5473    5622    6092
                  6131    6903    6997    7038
                  7249    7839    8058
Not I       (1)   4863
Nsp7524 I   (2)   5695    6060
NspB II     (14)  120     191     1847    2156
                  2299    3991    5112    5187
                  5569    5772    6402    6647
                  7588    8068
NspH I      (2)   5699    6064
Pac I       (1)   4944
Pal I       (51)  172     203     248     659
                  793     829     841     1054
                  1178    1199    1264    1727
                  1871    1892    1920    2072
                  2145    2227    2462    2633
                  2700    2719    2913    3106
                  3431    3498    3531    3582
                  3638    3825    3860    3939
                  3974    4083    4216    4409
                  4865    4890    5123    5168
                  5198    5243    6075    6086
                  6104    6538    6996    7076
                  7343    7930    8071
PflM I      (1)   3852
Ple I       (3)   866     5469    6439
Pme I       (1)   4115
PpuM I      (3)   329     1286    5324
Psp1406 I   (2)   7179    7552
PspA I      (2)   473     5467
Pst I       (6)   988     996     1172    1857
                  3768    7198
Pvu I       (2)   1884    7323
Pvu II      (5)   120     191     3991    5112
                  5187
Rsa I       (25)  348     479     726     1351
                  1503    2437    2490    3048
                  3073    3128    3161    3212
                  3369    3626    3878    4067
                  4351    4376    4431    4464
                  4515    4672    5473    5868
                  7433
Rsr II      (1)   1928
Sac I       (3)   414     4700    5408
Sac II      (2)   2300    8069
Sal I       (1)   4870
Sap I       (1)   5944
Sau3A I     (46)  94      1111    1243    1428
                  1477    1482    1517    1563
                  1696    1881    1894    1984
                  2291    2411    2775    2784
                  2800    2831    3414    3510
                  3906    4106    4718    4739
                  4760    4781    4806    4850
                  4876    4926    5085    5599
                  6626    6701    6712    6720
                  6798    6810    6915    7256
                  7274    7320    7578    7595
                  7631    7957
Sau96 I     (44)  170     201     246     261
                  274     329     627     757
                  827     840     1052    1263
                  1286    1919    1928    2070
                  2469    2698    2718    2737
                  2912    3105    3529    3581
                  3824    4081    4215    4408
                  4888    4889    5121    5166
                  5196    5241    5256    5269
                  5324    5621    6995    7074
                  7091    7313    7929    8070
Sca I       (2)   2490    7433
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ScrF I      (44)  162      238      316      474
                  475      603      624      645
                  790      802      815      1236
                  1261     1284     1304     1334
                  2306     2422     2743     2919
                  3112     3598     3752     3996
                  4222     4415     4813     4892
                  5158     5233     5311     5468
                  5469     5597     5618     5639
                  5706     5741     6088     6209
                  6222     6440     7136     7487
Sec I       (48)  160      236      315      325
                  473      537      622      623
                  761      800      801      813
                  814      1234     1303     1312
                  1332     1333     1872     2073
                  2228     2297     2528     2741
                  2742     3189     3426     3438
                  3573     3597     3633     3690
                  3750     3846     3882     3951
                  4077     4492     5156     5231
                  5310     5320     5467     5530
                  5616     5617     6220     8066
SfaN I      (24)  260      520      1005     1585
                  1729     1796     1868     2053
                  2283     2363     2385     2541
                  3187     4490     5255     5513
                  5727     5860     5898     5936
                  6156     7208     7401     7648
Sfc I       (9)   984      992      1168     1853
                  3764     5006     6325     6516
                  7194
Sma I       (2)   475      5469
SnaB I      (2)   3169     4472
Spe I       (2)   727      4131
Ssp I       (1)   7757
Stu I       (2)   3638     3860
Sty I       (12)  325      537      1312     1872
                  3189     3426     3573     3633
                  3846     4492     5320     5530
Taq I       (20)  861      1105     1416     1427
                  1551     1566     1575     1635
                  2052     2265     2367     2392
                  2575     3507     3513     3723
                  4784     4871     6160     7604
Tfi I       (9)   299      518      869      1616
                  1738     1938     2189     2712
                  6035
Tsp45 I     (10)  1089     1298     1810     3568
                  3739     3745     5714     5809
                  7209     7420
Tth111 I    (7)   466      878      1284     1580
                  2024     5460     5807
Tth111 II   (10)  144      220      498      691
                  1740     5140     5215     6649
                  6658     6688
Vsp I       (2)   4139     7125
Xba I       (1)   5288
Xca I       (1)   5833
Xho II      (16)  1517     2831     3414     4106
                  4718     4739     4760     4850
                  4876     4926     6701     6712
                  6798     6810     7578     7595
Xma I       (2)   473      5467
Xma III     (5)   791      1725     1890     2460
                  4863
Xmn I       (1)   7552
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Site usage in pRV-TOMT:

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Aat II     G,ACGT`C         12    Acc I      GT`MK,AC         2
Acc65 I    G`GTAC,C         2     Aci I      C`CG,C           100
Afl II     C`TTAA,G         3     Afl III    A`CRYG,T         2
Age I      A`CCGG,T         -     Aha II     GR`CG,YC         21
Ahd I      GACNN,N`NNGTC    5     Alu I      AG|CT            44
Alw I      GGATC 8/9        22    AlwN I     CAG,NNN`CTG      4
Apa I      G,GGCC`C         1     ApaL I     G`TGCA,C         5
Apo I      R`AATT,Y         6     Asc I      GG`CGCG,CC       1
Ase I      AT`TA,AT         2     Asp718     G`GTAC,C         2
Ava I      C`YCGR,G         8     Ava II     G`GWC,C          15
Avr II     C`CTAG,G         -     BamH I     G`GATC,C         1
Ban I      G`GYRC,C         15    Ban II     G,RGCY`C         9
Bbe I      G,GCGC`C         5     Bbs I      GAAGAC 8/12      3
Bbv I      GCAGC 13/17      13    Bbv II     GAAGAC 7/11      3
Bcl I      T`GATC,A         1     Bcn I      CC,S`GG          22
Bfa I      C`TA,G           14    Bgl I      GCCN,NNN`NGGC    7
Bgl II     A`GATC,T         4     Blp I      GC`TNA,GC        1
Bpm I      CTGGAG 22/20     5     Bsa I      GGTCTC 7/11      8
BsaA I     YAC|GTR          4     BsaB I     GATNN|NNATC      4
BsaH I     GR`CG,YC         21    BsaJ I     C`CNNG,G         48
BsaW I     W`CCGG,W         8     BseR I     GAGGAG 16/14     6
Bsg I      GTGCAG 22/20     2     BsiC I     TT`CG,AA         -
BsiE I     CG,RY`CG         13    BsiHKA I   G,WGCW`C         9
BsiW I     C`GTAC,G         -     Bsm I      GAATG,C 7        -
BsmA I     GTCTC`/9         22    BsmB I     CGTCTC 7/11      8
BsmF I     GGGAC 15/19      18    BsoF I     GC`N,GC          53
Bsp120 I   G`GGCC,C         1     Bsp1286 I  G,DGCH`C         -
BspH I     T`CATG,A         3     BspM I     ACCTGC 10/14     1
BspM II    T`CCGG,A         4     Bsr I      ACT,GG`          19
BsrB I     GAG|CGG          7     BsrD I     GCAATG, 8        2
BsrG I     T`GTAC,A         1     BssH II    G`CGCG,C         4
BssS I     C`TCGT,G         6     Bst1107 I  GTA|TAC          1
BstB I     TT`CG,AA         -     BstE II    G`GTNAC,C        3
BstN I     CC`W,GG          22    BstU I     CG|CG            37
BstX I     CCAN,NNNN`NTGG   1     BstY I     R`GATC,Y         16
Bsu36 I    CC`TNA,GG        3     Cac8 I     GCN|NGC          35
Cfr10 I    R`CCGG,Y         4     Cla I      AT`CG,AT         -
Csp6 I     G`TA,C           25    Dde I      C`TNA,G          28
Dpn I      GA|TC            46    DpnII      `GATC,           46
Dra I      TTT|AAA          4     Dra III    CAC,NNN`GTG      2
Drd I      GACNN,NN`NNGTC   5     Dsa I      C`CRYG,G         9
Eae I      Y`GGCC,R         13    Eag I      C`GGCC,G         5
Ear I      CTCTTC 7/10      5     Eco47 III  AGC|GCT          1
Eco57 I    CTGAAG 21/19     6     Eco72 I    CAC|GTG          -
EcoN I     CCTNN`N,NNAGG    2     EcoO109 I  RG`GNC,CY        5
EcoR I     G`AATT,C         4     EcoR II    `CCWGG,          22
EcoR V     GAT|ATC          4     Ehe I      GGC|GCC          5
Esp I      GC`TNA,GC        1     Fnu4H I    GC`N,GC          53
Fok I      GGATG 14/18      14    Fse I      GG,CCGG`CC       -
Fsp I      TGC|GCA          2     Gdi II     `YGGC,CG         15
Gsu I      CTGGAG 21/19     5     Hae I      WGG|CCW          10
Hae II     R,GCGC`Y         8     Hae III    GG|CC            51
Hga I      GACGC 9/14       17    HgiA I     G,WGCW`C         9
HgiE II    ACCNNNNNNGGT -1/132     Hha I      G,CG`C          42
HinC II    GTY|RAC          3     Hind II    GTY|RAC          3
HinD III   A`AGCT,T         1     Hinf I     G`ANT,C          17
HinI I     GR`CG,YC         21    HinP I     G`CG,C           42
Hpa I      GTT|AAC          -     Hpa II     C`CG,G           36
Hph I      GGTGA 12/11      19    Kas I      G`GCGC,C         5
Kpn I      G,GTAC`C         2     Mae I      C`TA,G           14
Mae II     A`CG,T           24    Mae III    `GTNAC,          26
Mbo I      `GATC,           46    Mbo II     GAAGA 12/11      17
Mlu I      A`CGCG,T         1     Mme I      TCCRAC 25/23     8
Mnl I      CCTC 10/10       78    Msc I      TGG|CCA          3
Mse I      T`TA,A           20    Msl I      CAYNN|NNRTG      4
Msp I      C`CG,G           36    MspA1 I    CMG|CKG          14
Mun I      C`AATT,G         -     Nae I      GCC|GGC          -
Nar I      GG`CG,CC         5     Nci I      CC`S,GG          22
Nco I      C`CATG,G         5     Nde I      CA`TA,TG         4
NgoM I     G`CCGG,C         -     Nhe I      G`CTAG,C         2
Nla III    ,CATG`           26    Nla IV     GGN|NCC          43
Not I      GC`GGCC,GC       1     Nru I      TCG|CGA          -
Nsi I      A,TGCA`T         -     Nsp7524 I  R`CATG,Y         2
NspB II    CMG|CKG          14    NspH I     R,CATG`Y         2
Pac I      TTA,AT`TAA       1     PaeR7 I    C`TCGA,G         -
Pal I      GG|CC            51    PflM I     CCAN,NNN`NTGG    1
Ple I      GAGTC 9/10       3     Pme I      CTTT|AAAC        1
Pml I      CAC|GTG          -     PpuM I     RG`GWC,CY        3
Psp1406 I  AA`CG,TT         2     PspA I     C`CCGG,G         2
Pst I      C,TGCA`G         6     Pvu I      CG,AT`CG         2
Pvu II     CAG|CTG          5     Rsa I      GT|AC            25
Rsr II     CG`GWC,CG        1     Sac I      G,AGCT`C         3
Sac II     CC,GC`GG         2     Sal I      G`TCGA,C         1
Sap I      GCTCTTC 8/11     1     Sau3A I    `GATC,           46
Sau96 I    G`GNC,C          44    Sca I      AGT|ACT          2
ScrF I     CC`N,GG          44    Sec I      C`CNNG,G         48
SfaN I     GCATC 9/13       24    Sfc I      C`TRYA,G         9
Sfi I      GGCCN,NNN`NGGCC  -     Sma I      CCC|GGG          2
SnaB I     TAC|GTA          2     Spe I      A`CTAG,T         2
Sph I      G,CATG`C         -     Spl I      C`GTAC,G         -
Srf I      GCCC|GGGC        -     Ssp I      AAT|ATT          1
Stu I      AGG|CCT          2     Sty I      C`CWWG,G         12
Taq I      T`CG,A           20    Tfi I      G`AWT,C          9
Tsp45 I    `GTSAC,          10    Tth111 I   GACN`N,NGTC      7
Tth111 II  CAARCA 16/14     10    Vsp I      AT`TA,AT         2
Xba I      T`CTAG,A         1     Xca I      GTA|TAC          1
Xcm I      CCANNNNN,N`NNNNNTGG-   Xho I      C`TCGA,G         -
Xho II     R`GATC,Y         16    Xma I      C`CCGG,G         2
Xma III    C`GGCC,G         5     Xmn I      GAANN|NNTTC      1
Xma III    C`GGCC,G         5     Xmn I      GAANN|NNTTC      1
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