



General Description

DNA pIZT/V5-His

Entire molecule length: 3336 bp

Restriction Map

Enzyme	# of cuts	Positions
AatII	1	2816
Acc65I	1	568
AccI	6	187 208 220 2519 2674 3198
AccIII	1	2292
Acil	33	153(c) 395 445 489 515 629(c) 633 652 654(c) 900(c) 991 1019 1146 1165 1286 1396(c) 1531 1540(c) 1729 1736 1767 1778 1794(c) 1801 1940(c) 2056(c) 2804 2824(c) 2923(c) 2975(c) 3078(c) 3161 3174(c)
Acsl	7	555 603 809 2146 2203 2567 3258
Acyl	5	372 480 2813 3032 3148
AflIII	6	274 703 946 1708 1983 2392
AgeI	1	709
AluI	12	378 564 576 1114 1204 1250 1507 1697 2193 2557 2988 3223
Alw44I	2	1260 3115
AlwI	12	10 575(c) 588 888 1507(c) 1593(c) 1595 1972 2303 2585(c) 2598 2692(c)
AlwNI	2	548 1362
ApaI	2	159 652
ApaLI	2	1260 3115
ApoI	7	555 603 809 2146 2203 2567 3258
Asel	1	1995
AsnI	1	1995
Asp718	1	568
AspHI	4	578 1264 2801 3119
AsuII	3	553 659 2692
AvaI	4	636 2491 2848 2858
Avall	8	340 2724 2837 2892 2925 2931 3166 3185

BamHI	2	580 2590
BanI	3	479 568 2940
BanII	3	159 578 652
BbrPI	1	1984
BbvI	13	409 1275(c) 1365 1368 1574 1706 1924(c) 1961 1962(c) 1990 2733(c) 3078 3232
Bcgl	1	1727(c)
Bfal	6	587 643 1441 2072 2602 3293
BglI	1	3075
BmyI	7	159 578 652 1264 2144 2801 3119
Bpml	1	2117
Bpu1102I	1	1698
BsaAI	4	275 289 322 1984
BsaHI	5	372 480 2813 3032 3148
Bsal	1	697
BsaJI	11	652 687 1106 2051 2236 2858 2954 2960 3070 3128 3188
BsaWI	8	342 468 709 1152 1299 1884 2292 2793
BseAI	1	2292
BsiEI	7	633 1286 1751 1755 2828 2844 3104
BsiHKAI	4	578 1264 2801 3119
BsiWI	1	322
BsiYI	11	688 968 986 1152 1431 1961 2292 2934 2960 2961 2966
BsII	11	688 968 986 1152 1431 1961 2292 2934 2960 2961 2966
BsmAI	1	697
BsmFI	5	471(c) 2089(c) 2875 2911 3043
Bsml	1	3288(c)
Bsp120I	2	155 648
Bsp1286I	7	159 578 652 1264 2144 2801 3119
BspDI	1	883
BspEI	1	2292
BspHI	1	5
BspWI	14	35 488 497 999 1571 1676 1685 1694 1728 1800 1946

		1949 2805 3075
BsrBI	3	635(c) 1769(c) 2824
BsrFI	8	294 709 1754 2843 2884 3042 3103 3163
BsrGI	1	2346
BsrI	7	592(c) 1354 1367 1479(c) 2100 2223 2783(c)
BssHII	5	1684 1686 1943 1945 2806
Bst1107I	2	221 2520
BstBI	3	553 659 2692
BstNI	8	974 1095 1108 2929 2935 2956 2961 2980
BstUI	29	153 311 430 447 449 463 498 654 705 875 993 1574 1686 1688 1710 1722 1780 1794 1803 1945 1947 2394 2806 2808 2810 2923 2975 3095 3174
BstXI	3	599 625 1888
BstYI	6	580 1587 1598 1964 2590 2697
CellI	1	1698
CfoI	25	432 449 463 482 500 875 1126 1193 1293 1467 1576 1686 1688 1690 1724 1794 1805 1945 1947 1949 2808 2810 2923 2975 3095
Cfr10I	8	294 709 1754 2843 2884 3042 3103 3163
Clal	1	883
Csp45I	3	553 659 2692
Csp6I	8	168 272 323 569 707 2347 2496 2991
Ddel	4	752 1221 1630 1698
Dpnl	13	4 523 582 882 1514 1589 1600 1608 1966 2297 2592 2699 3058
DpnII	13	2 521 580 880 1512 1587 1598 1606 1964 2295 2590 2697 3056
Dral	3	560 793 2460
Drall	1	648

Drall	1	3123
DrdI	2	1054 2722
Dsal	4	652 2051 2236 3070
DsaV	17	972 1093 1106 1324 1960 1970 2857 2858 2894 2927 2933 2954 2959 2978 3026 3037 3098
EaeI	6	630 1752 2239 3044 3101 3125
EagI	3	630 1752 3101
Ecl136II	1	576
EclXI	3	630 1752 3101
Eco57I	2	1494 2420
EcoO109I	1	648
EcoRI	1	603
EcoRII	8	972 1093 1106 2927 2933 2954 2959 2978
EcoRV	1	615
Espl	1	1698
Fnu4HI	23	398 445 630 633 991 1146 1289 1354 1357 1563 1695 1778 1795 1938 1941 1950 1976 1979 2747 2976 3067 3175 3221
FnuDII	29	153 311 430 447 449 463 498 654 705 875 993 1574 1686 1688 1710 1722 1780 1794 1803 1945 1947 2394 2806 2808 2810 2923 2975 3095 3174
FokI	2	1868(c) 2782
Haell	2	483 1194
HaellI	22	103 157 294 298 632 650 961 972 990 1424 1742 1754 1758 2241 2642 2959 2978 3042 3046 3103 3127 3177
Hgal	12	300(c) 380 413 436 1057 1635 1699(c) 1769(c) 2400 3040 3156 3180
HgiAI	4	578 1264 2801 3119
Hhal	25	432 449 463 482 500 875 1126 1193 1293 1467 1576 1686

		1688 1690 1724 1794 1805 1945 1947 1949 2808 2810 2923 2975 3095
HinP1I	25	430 447 461 480 498 873 1124 1191 1291 1465 1574 1684 1686 1688 1722 1792 1803 1943 1945 1947 2806 2808 2921 2973 3093
HinclI	4	1989 2675 2780 3199
HindII	4	1989 2675 2780 3199
HindIII	2	562 2191
Hinfl	6	327 639 697 921 1317 2549
HpaII	27	295 343 401 469 710 1153 1300 1326 1516 1755 1885 1961 1971 2293 2794 2819 2844 2859 2885 2895 2944 3027 3038 3043 3100 3104 3164
HphI	9	712(c) 718(c) 1763(c) 2049 2140 2179 2185 2428 2793(c)
ItaI	23	398 445 630 633 991 1146 1289 1354 1357 1563 1695 1778 1795 1938 1941 1950 1976 1979 2747 2976 3067 3175 3221
KasI	1	479
KpnI	1	572
KspI	1	655
MaeI	6	587 643 1441 2072 2602 3293
MaeII	9	179 274 288 321 1649 1902 1983 2813 2903
MaeIII	15	284 317 363 464 838 1302 1365 1481 1859 2250 2572 2713 2739 2904 3232
MboI	13	2 521 580 880 1512 1587 1598 1606 1964 2295 2590

		2697 3056
Mboll	5	1456 1608 2095 2476 2596
Mcrl	7	633 1286 1751 1755 2828 2844 3104
Mfel	1	2630
Mlul	3	703 1708 2392
MluNI	1	2241
Mnll	19	114 443 470(c) 639(c) 692 697 1054(c) 1128 1378(c) 1769 1839(c) 2033(c) 2157(c) 2865(c) 3000(c) 3045 3123(c) 3183(c) 3212
Mrol	1	2292
MscI	1	2241
Msel	11	559 773 792 804 1652 1995 2135 2201 2429 2443 2459
MslI	1	462
MspA1I	3	654 1288 1533
Mspl	27	295 343 401 469 710 1153 1300 1326 1516 1755 1885 1961 1971 2293 2794 2819 2844 2859 2885 2895 2944 3027 3038 3043 3100 3104 3164
MunI	1	2630
Mval	8	974 1095 1108 2929 2935 2956 2961 2980
Mvnl	29	153 311 430 447 449 463 498 654 705 875 993 1574 1686 1688 1710 1722 1780 1794 1803 1945 1947 2394 2806 2808 2810 2923 2975 3095 3174
Mwol	14	35 488 497 999 1571 1676 1685 1694 1728 1800 1946 1949 2805 3075
Nael	4	296 1756 3044 3105
Narl	1	480
Ncil	9	1326 1962 1972 2859 2860 2896 3028 3039 3100
Ncol	2	2051 2236

NdeI	1	2300
NdeII	13	2 521 580 880 1512 1587 1598 1606 1964 2295 2590 2697 3056
NgoMI	4	294 1754 3042 3103
NheI	1	2071
NlaIII	17	9 73 461 770 950 1670 1853 1910 2055 2240 2314 2334 2724 2764 2769 3051 3334
NlaIV	10	157 481 570 582 650 978 1017 2592 2942 3186
NotI	1	630
NspI	2	950 1853
NspV	3	553 659 2692
PaeR7I	2	636 2491
PinAI	1	709
PleI	2	647 1325
PmaCI	1	1984
PmlI	1	1984
PstI	2	612 1980
RcaI	1	5
RsaI	8	169 273 324 570 708 2348 2497 2992
RsrII	2	340 3166
SacI	1	578
SacII	1	655
SalI	2	2673 3197
Sau3AI	13	2 521 580 880 1512 1587 1598 1606 1964 2295 2590 2697 3056
Sau96I	15	155 156 340 648 649 2641 2724 2837 2892 2925 2931 3040 3166 3176 3185
ScrFI	17	974 1095 1108 1326 1962 1972 2859 2860 2896 2929 2935 2956 2961 2980 3028 3039 3100
SexAI	1	2933
SfaNI	6	554 875(c) 1043 2166(c) 2760(c) 3260
Sfcl	4	608 1211 1402 1976
Sful	3	553 659 2692
SgrAI	1	2884
SmaI	1	2860
Snol	2	1260 3115

SpeI	1	586
SspBI	1	2346
StyI	2	2051 2236
TaqI	13	553 637 659 695 883 1046 2438 2492 2674 2692 2828 3198 3204
TfiI	4	327 697 921 2549
ThaI	29	153 311 430 447 449 463 498 654 705 875 993 1574 1686 1688 1710 1722 1780 1794 1803 1945 1947 2394 2806 2808 2810 2923 2975 3095 3174
Tru9I	11	559 773 792 804 1652 1995 2135 2201 2429 2443 2459
Tsp509I	13	48 555 603 809 822 1992 2108 2119 2146 2203 2567 2630 3258
XbaI	1	642
XhoI	2	636 2491
XhoII	6	580 1587 1598 1964 2590 2697
XmaI	1	2858
XmaIII	3	630 1752 3101

No cuts: AatI, AflIII, AoiI, AscI, Asp700, AspEI, AspI, AviII, AvrII, BbsI, BclI, BfrI, BglIII, BlnI, BpuAI, BsaBI, BsgI, BspMI, BsrDI, BstEII, Bsu36I, Eam1105I, EarI, Eco47III, EcoNI, Esp3I, FspI, HpaI, Ksp632I, MamI, NruI, NsiI, PacI, PflMI, PmeI, Ppu10I, PpuMI, Psp1406I, PvuI, PvuII, SapI, ScaI, SfiI, SnaBI, SphI, SspI, StuI, SwaI, Tth111I, Van91I, XcmI, XmnI