

General Description

DNA pGAPZα A

Entire molecule length: 3147 bp

Restriction Map

Enzyme	# of cuts	Positions
AatI	1	2118
AatII	1	1760
Acc65I	1	794
AccI	1	868
Acil	28	176 265(c) 341(c) 345(c) 540 805 807(c) 810(c) 814 1227(c) 1298 1415 1643(c) 1748 1768(c) 1867(c) 1919(c) 2022(c) 2100(c) 2202 2460 2488 2615 2634 2755 2865(c) 3000 3009(c)
Acsl	9	104 197 441 588 761 1343 1453 1480 2301
Acyl	2	1757 1976
AflIII	3	2088 2326 2415
AgeI	1	948
AluI	13	217 548 602 758 820 1087 1114 1248 1932 2404 2583 2719 2976
Alw44I	2	2059 2729
AlwI	8	797 859 1224(c) 1237 2120(c) 2976(c) 3062(c) 3064
AlwNI	1	2831
ApaLI	2	2059 2729
ApoI	9	104 197 441 588 761 1343 1453 1480 2301
Asel	1	1656
AsnI	1	1656
Asp718	1	794
AspHI	3	1745 2063 2733
AsuII	1	486
AvaI	4	737 799 1792 1802
Avall	6	1781 1836 1869 1875 2110 2245
AvrII	1	191
BamHI	1	1229
BanI	2	794 1884
BbrPI	1	768
BbsI	2	951 1536(c)

Bbvl	11	249 309 535(c) 542 700(c) 1123 2022 2744(c) 2834 2837 3043
Bcgl	1	105
Bcll	1	1096
Bfal	7	192 294 825 958 1364 2242 2910
Bgll	3	778 810 2019
Bglll	1	2
Blnl	1	191
Bmyl	4	936 1745 2063 2733
Bpml	3	231 537(c) 2426
BpuAl	2	951 1536(c)
BsaAl	1	768
BsaBl	2	965 1121
BsaHl	2	1757 1976
Bsal	3	1206(c) 1405(c) 2402(c)
BsaJl	15	111 191 301 302 805 1712 1802 1898 1904 2014 2072 2105 2113 2119 2575
BsaWl	4	948 1737 2621 2768
BsiEl	7	323 782 814 1772 1788 2048 2755
BsiHKAl	3	1745 2063 2733
BsiWl	1	1080
BsiYl	12	192 307 414 1878 1904 1905 1910 2120 2437 2455 2621 2900
Bsll	12	192 307 414 1878 1904 1905 1910 2120 2437 2455 2621 2900
BsmAl	5	156 789 1206(c) 1405(c) 2402(c)
BsmFl	10	173(c) 301(c) 441(c) 1819 1855 1987 2096(c) 2116(c) 2231(c) 2391
Bsml	1	989
Bsp1286l	4	936 1745 2063 2733
BspHl	1	356
BspMl	1	97
BspWl	12	338 539 548 710 778 810 813 1108 1749 2019 2468 3040
BsrBl	2	1768 2204(c)
BsrDl	2	247 708(c)
BsrFl	6	777 948 1787 1828 1986 2047

BsrGI	1	2319
BsrI	5	554(c) 1727(c) 2823 2836 2948(c)
BssHII	1	1750
BstBI	1	486
BstNI	10	303 1873 1879 1900 1905 1924 2115 2443 2564 2577
BstUI	11	807 1300 1750 1752 1754 1867 1919 2039 2328 2462 3043
BstYI	6	2 851 1229 2125 3056 3067
CfoI	12	864 1302 1752 1754 1867 1919 2039 2595 2662 2762 2936 3045
Cfr10I	6	777 948 1787 1828 1986 2047
Csp45I	1	486
Csp6I	9	285 795 1081 1196 1310 1385 1935 2320 2332
DdeI	8	616 842 902 919 996 1637 2690 3099
DpnI	12	4 791 853 1098 1231 2002 2127 2983 3058 3069 3077 3146
DpnII	12	2 789 851 1096 1229 2000 2125 2981 3056 3067 3075 3144
DraI	1	440
DraII	2	2110 2245
DraIII	1	2067
DrdI	2	2089 2523
DsaI	4	805 1712 2014 2105
DsaV	19	110 301 317 1801 1802 1838 1871 1877 1898 1903 1922 1970 1981 2042 2113 2441 2562 2575 2793
EaeI	7	320 779 811 1715 1988 2045 2069
EagI	4	320 779 811 2045
EarI	5	159 252 841(c) 1193 1282
EclXI	4	320 779 811 2045
Eco57I	5	618 774 1174(c) 2256 2963
EcoO109I	2	2110 2245

EcoRI	1	761
EcoRII	10	301 1871 1877 1898 1903 1922 2113 2441 2562 2575
EcoRV	1	2152
Esp3I	2	156 789
Fnu4HI	19	238 298 531 549 714 805 808 811 814 1112 1920 2011 2101 2460 2615 2758 2823 2826 3032
FnuDII	11	807 1300 1750 1752 1754 1867 1919 2039 2328 2462 3043
FokI	4	319 520(c) 988 2185(c)
HaeII	2	865 2663
HaeIII	18	229 322 772 781 813 1717 1903 1922 1986 1990 2047 2071 2103 2118 2430 2441 2459 2893
HgaI	6	357 1984 2334 2388 2526 3104
HgiAI	3	1745 2063 2733
HhaI	12	864 1302 1752 1754 1867 1919 2039 2595 2662 2762 2936 3045
HinP1I	12	862 1300 1750 1752 1865 1917 2037 2593 2660 2760 2934 3043
HincII	4	559 869 1650 1724
HindII	4	559 869 1650 1724
Hinfl	4	380 961 1294 2786
HpaII	21	111 319 593 778 949 1738 1763 1788 1803 1829 1839 1888 1971 1982 1987 2044 2048 2622 2769 2795 2985
HphI	2	1710 1737(c)
ItaI	19	238 298 531 549 714 805 808 811 814 1112 1920 2011 2101 2460 2615 2758 2823 2826 3032
KpnI	1	798

Ksp632l	5	159 252 841(c) 1193 1282
Kspl	1	808
Mael	7	192 294 825 958 1364 2242 2910
Maell	10	99 149 260 767 1464 1757 1847 2090 2285 3118
Maelll	10	181 611 1034 1510 1848 2169 2339 2771 2834 2950
Maml	2	965 1121
Mbol	12	2 789 851 1096 1229 2000 2125 2981 3056 3067 3075 3144
Mboll	15	146(c) 212(c) 239(c) 584 734 858 956 1066(c) 1180(c) 1213 1269(c) 1349(c) 1423(c) 1536(c) 3077
Mcrl	7	323 782 814 1772 1788 2048 2755
Mfel	1	470
Mlul	1	2326
MluNI	1	1717
Mnll	23	41 270(c) 547 742(c) 808 842(c) 928 966(c) 1196 1361 1371 1428 1525 1694(c) 1809(c) 1944(c) 1989 2067(c) 2129 2199 2523(c) 2597 2847(c)
MscI	1	1717
Msel	11	123 439 445 1206 1375 1528 1533 1656 2279 2393 3121
MspA1l	4	807 1114 2757 3002
Mspl	21	111 319 593 778 949 1738 1763 1788 1803 1829 1839 1888 1971 1982 1987 2044 2048 2622 2769 2795 2985
Munl	1	470
Mval	10	303 1873 1879 1900 1905 1924 2115 2443 2564 2577
Mvnl	11	807 1300 1750 1752 1754 1867 1919 2039 2328 2462 3043

MwoI	12	338 539 548 710 778 810 813 1108 1749 2019 2468 3040
NaeI	3	779 1988 2049
NciI	9	112 319 1803 1804 1840 1972 1983 2044 2795
NcoI	1	1712
NdeI	12	2 789 851 1096 1229 2000 2125 2981 3056 3067 3075 3144
NgoMI	3	777 1986 2047
NlaIII	10	355 360 911 1716 1995 2158 2340 2419 3139 3143
NlaIV	11	68 141 230 796 1231 1886 2111 2112 2247 2447 2486
NotI	1	811
NsiI	1	3141
NspI	3	355 2340 2419
NspV	1	486
PaeR7I	2	737 799
PinAI	1	948
PleI	2	1288(c) 2794
PmaCI	1	768
PmlI	1	768
Ppu10I	1	3137
PpuMI	2	2110 2245
Psp1406I	1	2285
PvuII	1	1114
RcaI	1	356
RsaI	9	286 796 1082 1197 1311 1386 1936 2321 2333
SacII	1	808
Sall	1	867
SapI	1	252
Sau3AI	12	2 789 851 1096 1229 2000 2125 2981 3056 3067 3075 3144
Sau96I	10	228 771 1781 1836 1869 1875 1984 2102 2110 2245
ScrFI	19	112 303 319 1803 1804 1840 1873 1879 1900 1905 1924 1972 1983 2044 2115 2443 2564 2577 2795
SexAI	1	1877
SfaNI	4	542 992(c) 1311

		2512
Sfcl	2	2680 2871
Sfil	1	778
Sful	1	486
SgrAI	1	1828
SmaI	1	1804
Snol	2	2059 2729
SspBI	1	2319
StuI	1	2118
StyI	2	191 1712
TaqI	12	383 486 636 738 800 868 1153 1437 1772 2148 2384 2515
TfiI	2	380 961
ThaI	11	807 1300 1750 1752 1754 1867 1919 2039 2328 2462 3043
Tru9I	11	123 439 445 1206 1375 1528 1533 1656 2279 2393 3121
Tsp509I	18	104 197 410 441 446 470 507 588 761 1343 1376 1453 1480 1548 1653 2159 2301 2394
XbaI	1	824
XhoI	2	737 799
XhoII	6	2 851 1229 2125 3056 3067
XmaI	1	1802
XmaIII	4	320 779 811 2045

No cuts: AccIII, AflII, AoiI, ApaI, AscI, Asp700, AspEI, Aspl, AviII, BanII, BfrI, BpuI102I, BseAI, BsgI, Bsp120I, BspDI, BspEI, Bst1107I, BstEII, BstXI, Bsu36I, CelII, ClaI, Eam1105I, Ecl136II, Eco47III, EcoNI, EspI, FspI, HindIII, HpaI, KasI, MroI, MslI, NarI, NdeI, NheI, NruI, PacI, PflMI, PmeI, PstI, PvuI, RsrII, SacI, ScaI, SnaBI, SpeI, SphI, SspI, SwaI, Tth111I, Van9II, XcmI, XmnI