



General Description

DNA pGAPZ $\alpha$  C

Entire molecule length: 3152 bp

Restriction Map

Enzyme	# of cuts	Positions
AatI	1	2123
AatII	1	1765
Acc65I	1	799
AccI	1	873
Acil	28	176 265(c) 341(c) 345(c) 540 810 812(c) 815(c) 819 1232(c) 1303 1420 1648(c) 1753 1773(c) 1872(c) 1924(c) 2027(c) 2105(c) 2207 2465 2493 2620 2639 2760 2870(c) 3005 3014(c)
AcsI	9	104 197 441 588 766 1348 1458 1485 2306
AcyI	2	1762 1981
AflIII	3	2093 2331 2420
AgeI	1	953
AluI	12	217 548 602 825 1092 1119 1253 1937 2409 2588 2724 2981
Alw44I	2	2064 2734
AlwI	8	802 864 1229(c) 1242 2125(c) 2981(c) 3067(c) 3069
AlwNI	1	2836
ApaLI	2	2064 2734
ApoI	9	104 197 441 588 766 1348 1458 1485 2306
Asel	1	1661
AsnI	1	1661
Asp718	1	799
AspHI	3	1750 2068 2738
AsuII	1	486
AvaI	4	737 804 1797 1807
Avall	6	1786 1841 1874 1880 2115 2250
AvrII	1	191
BamHI	1	1234
BanI	2	799 1889
BbrPI	1	773
BbsI	2	956 1541(c)

Bbvl	11	249 309 535(c) 542 700(c) 1128 2027 2749(c) 2839 2842 3048
Bcgl	1	105
Bcll	1	1101
Bfal	7	192 294 830 963 1369 2247 2915
Bgll	3	783 815 2024
Bglll	1	2
Blnl	1	191
Bmyl	4	941 1750 2068 2738
Bpml	3	231 537(c) 2431
BpuAl	2	956 1541(c)
BsaAl	1	773
BsaBl	2	970 1126
BsaHl	2	1762 1981
Bsal	3	1211(c) 1410(c) 2407(c)
BsaJl	15	111 191 301 302 810 1717 1807 1903 1909 2019 2077 2110 2118 2124 2580
BsaWl	4	953 1742 2626 2773
BsiEl	7	323 787 819 1777 1793 2053 2760
BsiHKAl	3	1750 2068 2738
BsiWl	1	1085
BsiYl	12	192 307 414 1883 1909 1910 1915 2125 2442 2460 2626 2905
Bsll	12	192 307 414 1883 1909 1910 1915 2125 2442 2460 2626 2905
BsmAl	5	156 794 1211(c) 1410(c) 2407(c)
BsmFl	10	173(c) 301(c) 441(c) 1824 1860 1992 2101(c) 2121(c) 2236(c) 2396
Bsml	1	994
Bsp1286l	4	941 1750 2068 2738
BspDl	1	761
BspHl	1	356
BspMl	1	97
BspWl	12	338 539 548 710 783 815 818 1113 1754 2024 2473 3045
BsrBl	2	1773 2209(c)
BsrDl	2	247 708(c)
BsrFl	6	782 953 1792 1833

		1991 2052
BsrGI	1	2324
Bsrl	5	554(c) 1732(c) 2828 2841 2953(c)
BssHII	1	1755
BstBI	1	486
BstNI	10	303 1878 1884 1905 1910 1929 2120 2448 2569 2582
BstUI	11	812 1305 1755 1757 1759 1872 1924 2044 2333 2467 3048
BstYI	6	2 856 1234 2130 3061 3072
Cfol	12	869 1307 1757 1759 1872 1924 2044 2600 2667 2767 2941 3050
Cfr10I	6	782 953 1792 1833 1991 2052
Clal	1	761
Csp45I	1	486
Csp6I	9	285 800 1086 1201 1315 1390 1940 2325 2337
Ddel	8	616 847 907 924 1001 1642 2695 3104
Dpnl	12	4 796 858 1103 1236 2007 2132 2988 3063 3074 3082 3151
DpnII	12	2 794 856 1101 1234 2005 2130 2986 3061 3072 3080 3149
Dral	1	440
Drall	2	2115 2250
Dralll	1	2072
DrdI	2	2094 2528
Dsal	4	810 1717 2019 2110
DsaV	19	110 301 317 1806 1807 1843 1876 1882 1903 1908 1927 1975 1986 2047 2118 2446 2567 2580 2798
Eael	7	320 784 816 1720 1993 2050 2074
Eagl	4	320 784 816 2050
EarI	6	159 252 737(c) 846(c) 1198 1287
EclXI	4	320 784 816 2050

Eco57I	5	618 774 1179(c) 2261 2968
EcoO109I	2	2115 2250
EcoRI	1	766
EcoRII	10	301 1876 1882 1903 1908 1927 2118 2446 2567 2580
EcoRV	1	2157
Esp3I	2	156 794
Fnu4HI	19	238 298 531 549 714 810 813 816 819 1117 1925 2016 2106 2465 2620 2763 2828 2831 3037
FnuDII	11	812 1305 1755 1757 1759 1872 1924 2044 2333 2467 3048
FokI	4	319 520(c) 993 2190(c)
HaeII	2	870 2668
HaeIII	18	229 322 777 786 818 1722 1908 1927 1991 1995 2052 2076 2108 2123 2435 2446 2464 2898
HgaI	6	357 1989 2339 2393 2531 3109
HgiAI	3	1750 2068 2738
HhaI	12	869 1307 1757 1759 1872 1924 2044 2600 2667 2767 2941 3050
HinP1I	12	867 1305 1755 1757 1870 1922 2042 2598 2665 2765 2939 3048
HincII	4	559 874 1655 1729
HindII	4	559 874 1655 1729
Hinfl	4	380 966 1299 2791
HpaII	21	111 319 593 783 954 1743 1768 1793 1808 1834 1844 1893 1976 1987 1992 2049 2053 2627 2774 2800 2990
HphI	2	1715 1742(c)
IatI	19	238 298 531 549 714 810 813 816 819 1117 1925 2016 2106 2465 2620

		2763 2828 2831 3037
Kpnl	1	803
Ksp632l	6	159 252 737(c) 846(c) 1198 1287
Kspl	1	813
Mael	7	192 294 830 963 1369 2247 2915
Maell	10	99 149 260 772 1469 1762 1852 2095 2290 3123
Maelll	10	181 611 1039 1515 1853 2174 2344 2776 2839 2955
Maml	2	970 1126
Mbol	12	2 794 856 1101 1234 2005 2130 2986 3061 3072 3080 3149
Mboll	16	146(c) 212(c) 239(c) 584 734 754 863 961 1071(c) 1185(c) 1218 1274(c) 1354(c) 1428(c) 1541(c) 3082
Mcrl	7	323 787 819 1777 1793 2053 2760
Mfel	1	470
Mlul	1	2331
MluNI	1	1722
Mnll	23	41 270(c) 547 742(c) 813 847(c) 933 971(c) 1201 1366 1376 1433 1530 1699(c) 1814(c) 1949(c) 1994 2072(c) 2134 2204 2528(c) 2602 2852(c)
MscI	1	1722
Msel	11	123 439 445 1211 1380 1533 1538 1661 2284 2398 3126
MspA1l	4	812 1119 2762 3007
Mspl	21	111 319 593 783 954 1743 1768 1793 1808 1834 1844 1893 1976 1987 1992 2049 2053 2627 2774 2800 2990
Munl	1	470
Mval	10	303 1878 1884 1905 1910 1929 2120 2448 2569 2582

Mvnl	11	812 1305 1755 1757 1759 1872 1924 2044 2333 2467 3048
Mwol	12	338 539 548 710 783 815 818 1113 1754 2024 2473 3045
Nael	3	784 1993 2054
Ncil	9	112 319 1808 1809 1845 1977 1988 2049 2800
Ncol	1	1717
Ndell	12	2 794 856 1101 1234 2005 2130 2986 3061 3072 3080 3149
NgoMI	3	782 1991 2052
NlaIII	10	355 360 916 1721 2000 2163 2345 2424 3144 3148
NlaIV	11	68 141 230 801 1236 1891 2116 2117 2252 2452 2491
NotI	1	816
Nsil	1	3146
Nspl	3	355 2345 2424
NspV	1	486
PaeR7I	2	737 804
PinAI	1	953
PleI	2	1293(c) 2799
PmaCI	1	773
PmII	1	773
Ppu10I	1	3142
PpuMI	2	2115 2250
Psp1406I	1	2290
PvuII	1	1119
RcaI	1	356
RsaI	9	286 801 1087 1202 1316 1391 1941 2326 2338
SacII	1	813
SalI	1	872
SapI	1	252
Sau3AI	12	2 794 856 1101 1234 2005 2130 2986 3061 3072 3080 3149
Sau96I	10	228 776 1786 1841 1874 1880 1989 2107 2115 2250
ScrFI	19	112 303 319 1808 1809 1845 1878 1884 1905 1910 1929 1977 1988

		2049 2120 2448 2569 2582 2800
SexAI	1	1882
SfaNI	5	542 767 997(c) 1316 2517
Sfcl	2	2685 2876
Sfil	1	783
Sful	1	486
SgrAI	1	1833
Smal	1	1809
Snol	2	2064 2734
SspBI	1	2324
Stul	1	2123
Styl	2	191 1717
TaqI	13	383 486 636 738 761 805 873 1158 1442 1777 2153 2389 2520
Tfil	2	380 966
Thal	11	812 1305 1755 1757 1759 1872 1924 2044 2333 2467 3048
Tru9I	11	123 439 445 1211 1380 1533 1538 1661 2284 2398 3126
Tsp509I	18	104 197 410 441 446 470 507 588 766 1348 1381 1458 1485 1553 1658 2164 2306 2399
Xbal	1	829
XhoI	2	737 804
XhoII	6	2 856 1234 2130 3061 3072
XmaI	1	1807
XmaIII	4	320 784 816 2050

No cuts: AccIII, AflII, AoiI, ApaI, AscI, Asp700, AspEI, Aspl, AviII, BanII, BfrI, BpuI102I, BseAI, BsgI, Bsp120I, BspEI, Bst1107I, BstEII, BstXI, Bsu36I, CelII, Eam1105I, Ecl136II, Eco47III, EcoNI, EspI, FspI, HindIII, HpaI, Kasi, MroI, MslI, NarI, NdeI, NheI, NruI, PacI, PflMI, PmeI, PstI, PvuI, RsrII, SacI, Scal, SnaBI, SpeI, SphI, SspI, SwaI, Tth111I, Van91I, XcmI, XmnI