



General Description

DNA pPICZ A

Entire molecule length: 3329 bp

Restriction Map

Enzyme	# of cuts	Positions
AatI	1	2304
AatII	1	1946
Acc65I	1	977
AccI	1	1053
Acil	25	321 657 988 990(c) 993(c) 997 1412(c) 1483 1600 1829(c) 1934 1954(c) 2053(c) 2105(c) 2208(c) 2286(c) 2388 2646 2674 2801 2820 2941 3051(c) 3186 3195(c)
AcsI	6	747 944 1528 1638 1665 2487
Acyl	2	1943 2162
AflIII	3	2274 2512 2601
AgeI	1	1133
AluI	14	207 318 798 838 875 1003 1272 1299 1433 2118 2590 2769 2905 3162
Alw44I	3	623 2245 2915
AlwI	8	980 1044 1409(c) 1422 2306(c) 3162(c) 3248(c) 3250
AlwNI	1	3017
ApaI	1	1011
ApaLI	3	623 2245 2915
ApoI	6	747 944 1528 1638 1665 2487
Asel	2	583 1842
AsnI	2	583 1842
Asp718	1	977
AspHI	5	209 627 1931 2249 2919
AsuII	1	934
AvaI	3	982 1978 1988
Avall	8	61 132 1967 2022 2055 2061 2296 2431
BamHI	1	1414
BanI	2	977 2070
BanII	2	209 1011
BbrPI	1	951
BbsI	2	1136 1721(c)

BbvI	8	122 785(c) 1308 2208 2930(c) 3020 3023 3229
BclI	2	741 1281
BfaI	5	107 1143 1549 2428 3096
BglI	4	279 961 993 2205
BglII	1	2
BmyI	7	209 627 1011 1121 1931 2249 2919
BpmI	2	327(c) 2612
Bpu1102I	1	589
BpuAI	2	1136 1721(c)
BsaAI	1	951
BsaBI	2	1150 1306
BsaHI	2	1943 2162
BsaI	3	1391(c) 1590(c) 2588(c)
BsaJI	13	277 618 988 1898 1988 2084 2090 2200 2258 2291 2299 2305 2761
BsaWI	4	1133 1923 2807 2954
BsiEI	6	965 997 1958 1974 2234 2941
BsiHKAI	5	209 627 1931 2249 2919
BsiWI	1	1265
BsiYI	14	191 283 350 525 663 2064 2090 2091 2096 2306 2623 2641 2807 3086
BsII	14	191 283 350 525 663 2064 2090 2091 2096 2306 2623 2641 2807 3086
BsmAI	6	603 686 972 1391(c) 1590(c) 2588(c)
BsmFI	7	2005 2041 2173 2282(c) 2302(c) 2417(c) 2577
Bsml	3	313 568 1174
Bsp120I	1	1007
Bsp1286I	7	209 627 1011 1121 1931 2249 2919
BspHI	2	738 3321
BspWI	9	279 961 993 996 1293 1935 2205 2654 3226
BsrBI	2	1954 2390(c)
BsrFI	6	960 1133 1973 2014 2172 2233
BsrGI	1	2505

BsrI	7	185(c) 497(c) 862 1913(c) 3009 3022 3134(c)
BssHII	1	1936
BstBI	1	934
BstNI	11	270 279 2059 2065 2086 2091 2110 2301 2629 2750 2763
BstUI	11	990 1485 1936 1938 1940 2053 2105 2225 2514 2648 3229
BstXI	1	707
BstYI	6	2 1036 1414 2311 3242 3253
CelII	1	589
CfoI	13	595 1049 1487 1938 1940 2053 2105 2225 2781 2848 2948 3122 3231
Cfr10I	6	960 1133 1973 2014 2172 2233
Csp45I	1	934
Csp6I	8	978 1266 1381 1495 1570 2121 2506 2518
DdeI	10	359 468 589 1027 1087 1104 1181 1822 2876 3285
DpnI	15	4 451 743 914 974 1038 1283 1416 2188 2313 3169 3244 3255 3263 3328
DpnII	15	2 449 741 912 972 1036 1281 1414 2186 2311 3167 3242 3253 3261 3326
DraI	1	414
DraII	3	132 2296 2431
DraIII	1	2253
DrdI	2	2275 2709
DsaI	4	988 1898 2200 2291
DsaV	19	268 277 618 1987 1988 2024 2057 2063 2084 2089 2108 2156 2167 2228 2299 2627 2748 2761 2979
EaeI	7	494 962 994 1901 2174 2231 2255
EagI	3	962 994 2231

EarI	4	150 1026(c) 1378 1467
Ecl136II	1	207
EclXI	3	962 994 2231
Eco57I	3	1359(c) 2442 3149
EcoO109I	3	132 2296 2431
EcoRI	1	944
EcoRII	11	268 277 2057 2063 2084 2089 2108 2299 2627 2748 2761
EcoRV	1	2338
Esp3I	1	972
Espl	1	589
Fnu4HI	16	111 799 988 991 994 997 1297 2106 2197 2287 2646 2801 2944 3009 3012 3218
FnuDII	11	990 1485 1936 1938 1940 2053 2105 2225 2514 2648 3229
FokI	7	32(c) 39(c) 441(c) 679 1173 2371(c) 3325(c)
HaeII	2	1050 2849
HaeIII	20	273 397 496 955 964 996 1009 1903 2089 2108 2172 2176 2233 2257 2289 2304 2616 2627 2645 3079
HgaI	5	2170 2520 2574 2712 3290
HgiAI	5	209 627 1931 2249 2919
HhaI	13	595 1049 1487 1938 1940 2053 2105 2225 2781 2848 2948 3122 3231
HinP1I	13	593 1047 1485 1936 1938 2051 2103 2223 2779 2846 2946 3120 3229
HincII	3	1054 1836 1910
HindII	3	1054 1836 1910
HindIII	1	873
Hinfl	4	704 1146 1479 2972
HpaII	19	620 961 1134 1924 1949 1974 1989 2015 2025 2074 2157 2168 2173 2230 2234 2808

		2955 2981 3171
HphI	2	1896 1923(c)
ItaI	16	111 799 988 991 994 997 1297 2106 2197 2287 2646 2801 2944 3009 3012 3218
KpnI	1	981
Ksp632I	4	150 1026(c) 1378 1467
KspI	1	991
MaeI	5	107 1143 1549 2428 3096
MaeII	8	734 950 1649 1943 2033 2276 2471 3304
MaeIII	8	1219 1695 2034 2355 2525 2957 3020 3136
MamI	2	1150 1306
MboI	15	2 449 741 912 972 1036 1281 1414 2186 2311 3167 3242 3253 3261 3326
MboII	12	137(c) 922 1043 1141 1251(c) 1365(c) 1398 1454(c) 1534(c) 1608(c) 1721(c) 3263
McrI	6	965 997 1958 1974 2234 2941
MfeI	1	865
MluI	1	2512
MluNI	1	1903
MnII	26	89(c) 145 153 161 277(c) 343(c) 934(c) 991 1027(c) 1113 1151(c) 1381 1546 1556 1613 1710 1880(c) 1995(c) 2130(c) 2175 2253(c) 2315 2385 2709(c) 2783 3033(c)
MscI	1	1903
MseI	14	413 583 751 809 885 895 1391 1560 1713 1718 1842 2465 2579 3307
MslI	1	77
MspA1I	4	990 1299 2943 3188
MspI	19	620 961 1134 1924 1949 1974 1989 2015 2025 2074 2157 2168 2173

		2230 2234 2808 2955 2981 3171
MunI	1	865
MvaI	11	270 279 2059 2065 2086 2091 2110 2301 2629 2750 2763
MvnI	11	990 1485 1936 1938 1940 2053 2105 2225 2514 2648 3229
MwoI	9	279 961 993 996 1293 1935 2205 2654 3226
NaeI	3	962 2174 2235
NciI	8	620 1989 1990 2026 2158 2169 2230 2981
NcoI	1	1898
NdeII	15	2 449 741 912 972 1036 1281 1414 2186 2311 3167 3242 3253 3261 3326
NgoMI	3	960 2172 2233
NlaIII	11	249 293 385 742 1096 1902 2181 2344 2526 2605 3325
NlaIV	12	274 429 862 979 1009 1416 2072 2297 2298 2433 2633 2672
NotI	1	994
NsiI	1	678
NspI	2	2526 2605
NspV	1	934
PaeR7I	1	982
PfiMI	1	191
PinAI	1	1133
PleI	2	1473(c) 2980
PmaCI	1	951
PmeI	1	414
PmlI	1	951
Ppu10I	1	674
PpuMI	3	132 2296 2431
Psp1406I	2	734 2471
PvuII	1	1299
RcaI	2	738 3321
RsaI	8	979 1267 1382 1496 1571 2122 2507 2519
SacI	1	209
SacII	1	991

Sall	1	1052
Sau3AI	15	2 449 741 912 972 1036 1281 1414 2186 2311 3167 3242 3253 3261 3326
Sau96I	15	61 132 272 396 954 1007 1008 1967 2022 2055 2061 2170 2288 2296 2431
ScrFI	19	270 279 620 1989 1990 2026 2059 2065 2086 2091 2110 2158 2169 2230 2301 2629 2750 2763 2981
SexAI	1	2063
SfaNI	3	1177(c) 1496 2698
Sfcl	2	2866 3057
Sfil	1	961
Sful	1	934
SgrAI	1	2014
SmaI	1	1990
Snol	3	623 2245 2915
SspBI	1	2505
StuI	1	2304
StyI	1	1898
TaqI	10	172 934 983 1053 1338 1622 1958 2334 2570 2701
Tfil	2	704 1146
Thal	11	990 1485 1936 1938 1940 2053 2105 2225 2514 2648 3229
Tru9I	14	413 583 751 809 885 895 1391 1560 1713 1718 1842 2465 2579 3307
Tsp509I	15	219 747 849 865 927 944 1528 1561 1638 1665 1733 1839 2345 2487 2580
Van91I	1	191
XcmI	1	707
XhoI	1	982
XhoII	6	2 1036 1414 2311 3242 3253
XmaI	1	1988
XmaIII	3	962 994 2231

No cuts: AccIII, AflII, AseI, AscI, Asp700, AspEI, AspI, AseI, AvrII, BclI, BclI, BlnI, BseAI, BsgI, BspDI, BspEI, BspMI, BsrDI, Bst1107I, BstEII, Bsu36I, ClaI, Eam1105I, Eco47III, EcoNI, FspI, HpaI, KasI, MroI, NarI, NdeI, NheI, NruI, PacI, PstI, PvuI, RsrII, SapI, ScaI, SnaBI, SpeI, SphI, SspI, SwaI, Tth111I, XbaI, XmnI