



General Description

DNA pentr\_u6\_verA

Entire molecule length: 2854 bp

Restriction/Methylation Map

Enzyme	# of cuts	Positions
Acc65I	1	700
AccI	1	688
Acil	21	43 64 71 114(c) 138 148 204(c) 238 324(c) 337 375 384(c) 1279 2257 2266(c) 2401 2511(c) 2632(c) 2651(c) 2778(c) 2806(c)
AcsI	2	1287 1471
AcyI	1	328
AfII	1	555
AfIII	3	231 2153 2849
AluI	11	57 175 560 985 1087 1126 1140 2123 2292 2549 2685
Alw44I	1	2535
AlwI	7	689(c) 702 1536(c) 1931 2203(c) 2205 2291
AlwNI	1	2440
Apal	1	568
ApaLI	1	2535
ApoI	2	1287 1471
AseI	4	167 226 791 1873
AsnI	4	167 226 791 1873
Asp700	1	680
Asp718	1	700
AspEI	1	550
AspHI	1	2539
AvaI	1	561
BamHI	1	694
BanI	1	700
BanII	2	568 1329
BbsI	1	438(c)
BbvI	8	85 103 184 1149 2221(c) 2427(c) 2430(c) 2520
BfaI	4	241 507 976 2356
BfrI	1	555
BmyI	3	568 1329 2539
BpuAI	1	438(c)
BsaAI	1	830
BsaHI	1	328
BsaJI	4	704 1545 1947 2689
BsaWI	4	697 1809 2496 2643

BsiEI	3	85 1674 2515
BsiHKAI	1	2539
BsiYI	10	154 346 710 1588 1920 1937 2371 2650 2816 2834
BsII	10	154 346 710 1588 1920 1937 2371 2650 2816 2834
BsmAI	2	1157 1690
BsmFI	1	2125
BsmI	2	1558(c) 1635(c)
Bsp120I	1	564
Bsp1286I	3	568 1329 2539
BspHI	2	1198 2125
BspWI	9	63 130 214 1143 1386 1418 1632 2231 2803
BsrBI	2	66(c) 377(c)
BsrDI	3	633 1017(c) 1172(c)
BsrFI	1	1628
BsrGI	2	652 992
BsrI	10	201 442(c) 524(c) 550(c) 696 1465 2089 2322 2434(c) 2447(c)
BstNI	9	246 311 479 1134 1564 1921 2690 2703 2824
BstUI	10	150 152 233 498 1281 1331 1676 2155 2225 2806
BstYI	4	694 1923 2197 2208
CfoI	14	91 124 152 217 1389 1611 1628 1698 2119 2225 2334 2508 2608 2675
Cfr10I	1	1628
Csp6I	6	235 653 701 820 993 1508
Ddel	6	298 398 454 1691 2166 2575
Dpnl	8	696 1543 1673 1925 2191 2199 2210 2285
DpnII	8	694 1541 1671 1923 2189 2197 2208 2283
DraI	3	671 872 885
Drall	2	565 723
DrdI	1	2747
DsaV	13	244 309 346 379 477 1132 1545 1562 1919 2470 2688 2701 2822

EaeI	2	156 547
Eam1105I	1	550
EarI	4	112(c) 244(c) 713(c) 1487
Eco57I	1	2307(c)
EcoNI	1	1586
EcoO109I	2	565 723
EcoRII	9	244 309 477 1132 1562 1919 2688 2701 2822
EcoRV	1	1092
Esp3I	1	1690
Fnu4HI	12	71 74 92 173 1138 1279 2235 2441 2444 2509 2652 2807
FnuDII	10	150 152 233 498 1281 1331 1676 2155 2225 2806
FokI	6	262(c) 298 527 1067(c) 1312 1918(c)
HaeII	2	125 2609
HaeIII	15	158 274 290 351 440 549 566 725 1146 1278 1761 2375 2809 2827 2838
HgaI	4	317(c) 2144(c) 2159(c) 2737(c)
HgiAI	1	2539
HhaI	14	91 124 152 217 1389 1611 1628 1698 2119 2225 2334 2508 2608 2675
HinP1I	14	89 122 150 215 1387 1609 1626 1696 2117 2223 2332 2506 2606 2673
HincII	2	502 689
HindII	2	502 689
Hinfl	11	21 96 161 738 1105 1585 1641 1813 1898 1904 2479
HpaI	1	502
HpaII	10	347 381 698 1547 1629 1810 2281 2471 2497 2644
HphI	6	403(c) 1524(c) 1603 1799(c) 1843 1963
ItaI	12	71 74 92 173 1138 1279 2235 2441 2444 2509 2652 2807
KpnI	1	704
Ksp632I	4	112(c) 244(c) 713(c)

		1487
Mael	4	241 507 976 2356
Maell	6	365 533 829 834 1270 2144
Maelll	14	526 596 830 909 1047 1168 1434 1526 1821 2078 2149 2313 2429 2492
Mbol	8	694 1541 1671 1923 2189 2197 2208 2283
Mboll	7	129 261 438(c) 730 1474(c) 1585 2192(c)
Mcrl	3	85 1674 2515
MIul	2	231 2153
Mnll	11	101(c) 151 354 714(c) 1268(c) 1490 1857(c) 1957 2422 2672(c) 2746
Msel	13	167 226 501 556 670 791 871 884 1285 1664 1873 2069 2141
MspA1l	4	175 1087 2266 2511
Mspl	10	347 381 698 1547 1629 1810 2281 2471 2497 2644
Mval	9	246 311 479 1134 1564 1921 2690 2703 2824
Mvnl	10	150 152 233 498 1281 1331 1676 2155 2225 2806
Mwol	9	63 130 214 1143 1386 1418 1632 2231 2803
Ncil	4	348 381 1547 2472
Ndel	1	899
Ndell	8	694 1541 1671 1923 2189 2197 2208 2283
Nhel	2	240 506
NlaIII	10	514 738 1119 1202 1299 1411 1526 1831 2129 2853
NlaIV	7	566 567 677 696 702 2782 2821
Nrul	1	1331
Nsil	2	1524 1790
Nspl	1	2853
PfIMI	1	1937
Plel	4	104 1113 1906 2473(c)

Ppu10I	2	1520 1786
Psp1406I	1	365
Pvul	1	1674
Pvull	2	175 1087
Rcal	2	1198 2125
Rsal	6	236 654 702 821 994 1509
Sall	1	687
Sapl	1	112(c)
Sau3AI	8	694 1541 1671 1923 2189 2197 2208 2283
Sau96I	6	349 439 564 565 723 1145
ScrFI	13	246 311 348 381 479 1134 1547 1564 1921 2472 2690 2703 2824
SfaNI	9	296(c) 464(c) 1290(c) 1374(c) 1509(c) 1596(c) 1716(c) 2027(c) 2752(c)
Sfcl	3	1098 2393 2584
Snol	1	2535
SspBI	2	652 992
Sspl	1	1599
Styl	1	704
TaqI	6	688 926 1273 1639 2042 2751
Tfil	7	21 161 738 1585 1641 1813 1904
Thal	10	150 152 233 498 1281 1331 1676 2155 2225 2806
Tru9I	13	167 226 501 556 670 791 871 884 1285 1664 1873 2069 2141
Tsp509I	16	223 616 680 782 788 792 847 874 1028 1287 1471 1653 1870 2020 2062 2070
Van91I	1	1937
Xbal	1	975
XhoII	4	694 1923 2197 2208
XmnI	1	680

No cuts: AatI, AatII, AccIII, AgeI, AoiI, AscI, AspI, AsuII, AvaII, AviII, AvrII, BbrPI, BcgI, BclI, BglI, BglII, BlnI, BpmI, Bpu1102I, BsaBI, BsaI, BseAI, BsgI, BsiWI, BspDI, BspEI, BspMI, BssHII, Bst1107I, BstBI, BstEII, BstXI, Bsu36I, CelII, ClaI, Csp45I, DraIII, DsaI, EagI, Ecl136II, EclXI, Eco47III, EcoRI, EspI, FspI, HindIII, KasI, KspI, MamI, MfeI, MluNI, MroI, MscI, MslI, MunI, NaeI, NarI, NcoI, NgoMI, NotI, NspV, PacI, PaeR7I, PinAI, PmaCI, PmeI, PmlI, PpuMI, PstI, RsrII, SacI, SacII, Scal, SexAI, SfiI, SfuI, SgrAI, SmaI, SnaBI, SpeI, SphI, StuI, SwaI, Tth111I, XcmI, XhoI, XmaI, XmaIII