



ApaI	GGGCC!C	1	658					
ApaLI	G!TGCAC	2	1256	4374				
ApoI	R!AATTY	4	630	1584	1688	1699		
ApyI	CC!WGG	14	91	284	847	857	1055	
			2306	2361	2378	3157	3736	
			3839	4529	4542	4663		
AquI	C!YCGRG	4	614	657	905	1265		
AscI	GG!CGCGCC	0						
AseI	AT!TAAT	1	8					
AsnI	AT!TAAT	1	8					
Asp700I	GAANN!NNTTC	1	917					
Asp718I	G!GTACC	1	646					
AspHI	GWGCW!C	6	621	854	1260	2883	3073	
			4378					
AspI	GACN!NNGTC	1	2888					
AsuI	G!GNCC	12	84	277	654	655	902	
			1250	1877	3286	3731	3777	
			3835	3868				
AsuII	TT!CGAA	2	628	3452				
AvaI	C!YCGRG	4	614	657	905	1265		
AvaII	G!GWCC	2	3286	3731				
AvaIII	ATGCA!T	3	2342	2414	4745			
AviII	TGC!GCA	1	2872					
AvrI	!CYCGRG	4	613	656	904	1264		
AvrII	C!CTAGG	2	2592	3607				
AxyI	CC!TNAGG	2	2250	3882				
BalI	TGG!CCA	4	750	1053	1074	2852		
BamHI	G!GATCC	1	661					
BanI	G!GYRCC	7	466	646	689	878	1923	
			2769	2804				
BanII	GRGCY!C	5	621	658	1961	3135	3845	
BanIII	AT!CGAT	1	2610					
BbeI	GGCGC!C	3	693	882	2773			
BbiIII/AcyI	GR!CGYC	10	123	176	259	445	690	
			879	1386	2770	3472	3551	
BbrPI	CAC!GTG	3	1078	1261	1291			
BbsI	!GTCTTC	0						
BbsI	!GAAGAC	0						
BbvI	GCAGCNNNNNNNN!	9	696	1035	1203	1558	2843	
			2885	3406	3859	4359		
BbvI	!NNNNNNNNNNNGCTGC	8	917	2052	2717	2901	2994	
			4060	4266	4269			
BbvII	GAAGACNN!	0						
BbvII	!NNNNNNGTCTTC	0						
BcefI	ACGGCNNNNNNNNNN!	7	721	796	892	916	1165	
			3196	3683				
BcefI	!NNNNNNNNNNNGCCGT	4	1341	1912	2730	4189		
BcgI	!GCANNNNNTCG	0						
BcgI	!CGANNNNNTGC	0						
BclI	T!GATCA	0						
BcnI	CC!SGG	6	658	659	2774	2934	3547	
			4311					
BfaI	C!TAG	8	593	1425	1619	2037	2593	
			3608	3942	4195			
BfrI	C!TTAAG	1	1652					
BglI	GCCNNNN!NGGC	4	91	213	284	2545		
BglII	A!GATCT	1	610					
BinI	!NNNNNGATCC	7	581	656	706	3014	3558	
			3945	4042				

BinI	GGATCNNNN!	8	669 3946	2638 4044	2949 4130	3195	3587
BlnI	C!CTAGG	2	2592	3607			
BmyI	GDGCH!C	15	621 1260 2883	658 1266 3073	840 1961 3135	846 2716 3845	854 2809 4378
BpmI	!CTCCAG	1	3567				
BpmI	!CTGGAG	3	846	1093	3588		
Bpu1102I	GC!TNAGC	1	1298				
BsaAI	YAC!GTR	8	341 1291	721 1886	949 3074	1078	1261
BsaBI	GATNN!NNATC	2	1432	2629			
BsaHI	GR!CGYC	10	123 879	176 1386	259 2770	445 3472	690 3551
BsaI	GGTCTCN!	0					
BsaI	!NNNNNGAGACC	2	1337	3759			
BsaJI	C!CNNGG	24	361 845 2304 2592 3735	650 855 2376 2933 3837	657 1002 2499 3202 3838	703 1054 2534 3607 4528	766 1356 2543 3734
BseAI	T!CCGGA	1	1394				
BsePI	!GCGCGC	1	1350				
BsgI	!GTGCAG	1	949				
BsgI	!CTGCAC	1	819				
BsiEI	CGRY!CG	4	672	1417	2679	4354	
BsiWI	C!GTACG	0					
BsiYI	CCNNNNN!NNGG	24	50 1081 2751 3740 4210	721 1244 3295 3775 4489	772 1782 3576 3825 4655	846 2108 3608 3826 4673	1003 2500 3609 3857
BslI	CCNNNNN!NNGG	24	50 1081 2751 3740 4210	721 1244 3295 3775 4489	772 1782 3576 3825 4655	846 2108 3608 3826 4673	1003 2500 3609 3857
BsmAI	!GTCTC	1	429				
BsmAI	!GAGAC	5	1342	2199	2617	3636	3764
BsmI	GAATGCN!	1	1521				
BsmI	G!CATTC	1	1614				
Bsp1286I	GDGCH!C	15	621 1260 2883	658 1266 3073	840 1961 3135	846 2716 3845	854 2809 4378
BspDI	AT!CGAT	1	2610				
BspEI	T!CCGGA	1	1394				
BspHI	T!CATGA	2	2196	3968			
BspMI	ACCTGCNNNN!	2	3038	3488			
BspMI	!NNNNNNNNGCAGGT	1	2657				
BspMII	T!CCGGA	1	1394				
BspWI	GCNNNNN!NNGC	36	91 401 885 2027 2409 2845 3213 4642	213 768 1158 2054 2460 2868 3480	245 774 1197 2096 2539 3007 3667	284 789 1413 2098 2545 3013 3871	377 828 1997 2337 2761 3130 4070
BsrFI	R!CCGGY	8	667	827	1187	1388	1987

			3089	3270	3553		
BsrI	ACTGGN!	3	2714	2915	4161		
BsrI	C!CAGT	7	296	811	883	1799	2477
			4273	4286			
BssHII	G!CGCGC	1	1351				
Bst1107I	GTA!TAC	0					
BstBI	TT!CGAA	2	628	3452			
BstEII	G!GTNACC	2	859	1006			
BstI	G!GATCC	1	661				
BstNI	CC!WGG	14	91	284	847	857	1055
			2306	2361	2378	3157	3736
			3839	4529	4542	4663	
BstPI	G!GTNACC	2	859	1006			
BstUI	CG!CG	21	61	652	768	999	1038
			1323	1353	1419	1694	2070
			2090	2114	2145	2836	3137
			3575	3659	3722	3791	4064
			4645				
BstXI	CCANNNNN!NTGG	0					
BstYI	R!GATCY	11	586	610	661	711	2941
			3187	3579	3938	3950	4036
			4047				
Bsu36I	CC!TNAGG	2	2250	3882			
CbiI	TT!CGAA	2	628	3452			
CcrI	C!TCGAG	1	614				
CelII	GC!TNAGC	1	1298				
CfoI	GCG!C	28	598	692	881	960	1001
			1163	1353	1355	2036	2044
			2070	2092	2101	2114	2145
			2764	2772	2836	2873	3139
			3399	3575	3661	4064	4173
			4347	4447	4514		
Cfr10I	R!CCGGY	8	667	827	1187	1388	1987
			3089	3270	3553		
Cfr13I	G!GNCC	12	84	277	654	655	902
			1250	1877	3286	3731	3777
			3835	3868			
Cfr9I	C!CCGGG	1	657				
CfrI	Y!GGCCR	9	748	1051	1072	1212	1414
			2676	2850	3241	3268	
ClaI	AT!CGAT	1	2610				
CpoI	CG!GWCCG	1	3286				
Csp45I	TT!CGAA	2	628	3452			
CspI	CG!GSCCG	0					
CviJI	RG!CY	93	43	85	94	278	567
			619	625	656	750	777
			903	910	930	945	1045
			1053	1059	1074	1142	1152
			1214	1251	1284	1297	1335
			1407	1416	1439	1549	1716
			1736	1878	1959	1973	1987
			2268	2309	2381	2504	2533
			2539	2548	2556	2579	2591
			2597	2678	2695	2703	2730
			2755	2839	2848	2852	2876
			2914	2990	3007	3026	3089
			3133	3143	3160	3243	3270
			3274	3311	3334	3350	3530
			3557	3618	3740	3779	3836

			3843	3850	3869	3880	4131
			4160	4203	4214	4279	4358
			4383	4388	4434	4524	4622
			4648	4666	4677		
CvnI	CC!TNAGG	2	2250	3882			
DdeI	C!TNAG	8	607	1298	2250	2552	3433
			3882	4005	4414		
DpnI	GA!TC	25	588	612	663	713	1137
			1184	1218	1317	1429	2609
			2613	2632	2943	3021	3102
			3111	3189	3565	3581	3940
			3952	4030	4038	4049	4124
DpnII	!GATC	25	586	610	661	711	1135
			1182	1216	1315	1427	2607
			2611	2630	2941	3019	3100
			3109	3187	3563	3579	3938
			3950	4028	4036	4047	4122
DraI	TTT!AAA	3	1472	3914	3933		
DraII	RG!GNCCY	1	3868				
DraIII	CACNNN!GTG	1	1886				
DrdI	GACNNNN!NNGTC	3	1841	2797	4586		
DsaI	C!CRYGG	7	361	650	703	766	1356
			2499	3202			
DsaV	!CCNGG	20	89	282	656	657	845
			855	1053	2304	2359	2376
			2772	2932	3155	3545	3734
			3837	4309	4527	4540	4661
EaeI	Y!GGCCR	9	748	1051	1072	1212	1414
			2676	2850	3241	3268	
EagI	C!GGCCG	2	1414	2676			
Eam1105I	GACNNN!NNGTC	0					
EarI	!CTCTTC	0					
EarI	!GAAGAG	4	1155	2241	3118	3328	
Ecl136II	GAG!CTC	1	619				
EclXI	C!GGCCG	2	1414	2676			
Eco105I	TAC!GTA	1	341				
Eco31I	GGTCTCN!	0					
Eco31I	!NNNNNGAGACC	2	1337	3759			
Eco47I	G!GWCC	2	3286	3731			
Eco47III	AGC!GCT	1	597				
Eco52I	C!GGCCG	2	1414	2676			
Eco57I	!CTGAAG	5	910	1153	1336	2894	3326
Eco57I	!CTTCAG	2	756	4160			
Eco81I	CC!TNAGG	2	2250	3882			
EcoNI	CCTNN!NNNAGG	0					
EcoO109I	RG!GNCCY	1	3868				
EcoO65I	G!GTNACC	2	859	1006			
EcoRI	G!AATTC	1	630				
EcoRII	!CCWGG	14	89	282	845	855	1053
			2304	2359	2376	3155	3734
			3837	4527	4540	4661	
EcoRV	GAT!ATC	0					
EcoT14I	C!CWGGG	5	361	2499	2592	3202	3607
EcoT22I	ATGCA!T	3	2342	2414	4745		
EcoT38I	GRGCY!C	5	621	658	1961	3135	3845
EheI	GGC!GCC	3	691	880	2771		
Esp3I	CGTCTCN!	0					
Esp3I	!NNNNNGAGACG	0					
EspI	GC!TNAGC	1	1298				

FbaI	T!GATCA	0					
FinI	!GTCCC	4	2300	2372	2436	3731	
FinI	!GGGAC	6	161	312	480	2906	3438
			3547				
Fnu4HI	GC!NGC	39	685	688	769	931	1024
			1192	1246	1249	1366	1414
			1417	1547	2066	2088	2102
			2540	2679	2731	2742	2832
			2837	2874	2915	3002	3005
			3008	3244	3340	3381	3395
			3509	3848	3863	4074	4280
			4283	4348	4491	4646	
FokI	GGATGNNNNNNNNN!	8	758	818	1082	1319	2637
			3094	3119	3573		
FokI	!NNNNNNNNNNNNNCATCC	2	749	2443			
FspI	TGC!GCA	1	2872				
GdiII	!NNNNNYGGCCG	5	1206	1408	2670	3235	3262
GdiII	CGGCCRN!	2	1420	2682			
GsuI	!CTCCAG	1	3567				
GsuI	!CTGGAG	3	846	1093	3588		
HaeI	WGG!CCW	9	750	1053	1074	1142	2591
			2852	4214	4666	4677	
HaeII	RGCGC!Y	8	599	693	882	1164	2037
			2045	2773	4448		
HaeIII	GG!CC	29	85	278	656	750	903
			1053	1074	1142	1152	1214
			1251	1416	1736	1878	2533
			2539	2548	2591	2678	2852
			3243	3270	3779	3836	3869
			4214	4648	4666	4677	
HapII	C!CGG	23	602	658	668	828	1188
			1389	1395	1988	2675	2752
			2774	2802	2933	3023	3090
			3271	3546	3554	3646	4120
			4310	4336	4483		
HgaI	GACGCNNNNN!	4	527	1394	3480	3559	
HgaI	!NNNNNNNNNNGCGTC	3	2103	3998	4576		
HgiAI	GWGCW!C	6	621	854	1260	2883	3073
			4378				
HgiEII	!ACCNNNNNNGGT	1	4100				
HhaI	GCG!C	28	598	692	881	960	1001
			1163	1353	1355	2036	2044
			2070	2092	2101	2114	2145
			2764	2772	2836	2873	3139
			3399	3575	3661	4064	4173
			4347	4447	4514		
Hin1I	GR!CGYC	10	123	176	259	445	690
			879	1386	2770	3472	3551
HinP1I	G!CGC	28	596	690	879	958	999
			1161	1351	1353	2034	2042
			2068	2090	2099	2112	2143
			2762	2770	2834	2871	3137
			3397	3573	3659	4062	4171
			4345	4445	4512		
HincII	GTY!RAC	2	642	1533			
HindIII	A!AGCTT	1	623				
HinfI	G!ANTC	14	411	605	1090	1421	1813
			1835	2245	3255	3389	3441
			3499	3536	4318	4714	

HpaI	GTT!AAC	1	1533					
HpaII	C!CGG	23	602	658	668	828	1188	
			1389	1395	1988	2675	2752	
			2774	2802	2933	3023	3090	
			3271	3546	3554	3646	4120	
			4310	4336	4483			
HphI	GGTGANNNNNNNN!	5	377	871	1018	3841	3957	
HphI	!NNNNNNNTCACC	6	958	1099	1177	1310	1887	
			2948					
KasI	G!GCGCC	3	689	878	2769			
KpnI	GGTAC!C	1	650					
Ksp632I	CTCTTCN!	0						
Ksp632I	!NNNNGAAGAG	4	1151	2237	3114	3324		
KspI	CCGC!GG	2	653	769				
MaeI	C!TAG	8	593	1425	1619	2037	2593	
			3608	3942	4195			
MaeII	A!CGT	19	123	135	176	259	340	
			445	720	948	1077	1260	
			1290	1830	1842	1885	1995	
			2886	3073	3854	3987		
MaeIII	!GTNAC	15	62	149	498	859	1006	
			1309	1558	2059	2071	2890	
			3196	3886	4152	4268	4331	
MamI	GATNN!NNATC	2	1432	2629				
MboI	!GATC	25	586	610	661	711	1135	
			1182	1216	1315	1427	2607	
			2611	2630	2941	3019	3100	
			3109	3187	3563	3579	3938	
			3950	4028	4036	4047	4122	
MboII	GAAGANNNNNNNN!	6	1168	2026	2254	3131	3341	
			3960					
MboII	!NNNNNNNTCTTC	4	3421	3588	3788	4031		
McrI	!CGRYCG	4	668	1413	2675	4350		
MfeI	!CAATTG	1	1519					
MflI	R!GATCY	11	586	610	661	711	2941	
			3187	3579	3938	3950	4036	
			4047					
MluI	A!CGCGT	0						
MmeI	!TCCRAC	1	1837					
MmeI	!GTYGGA	2	4313	4497				
MnlI	CCTCNNNNNNN!	9	1489	1498	2553	2559	3371	
			3577	3891	4261	4585		
MnlI	!NNNNNNNGAGG	18	541	726	966	996	1448	
			1913	2244	2522	2528	2565	
			2568	2580	2620	2684	2820	
			3177	3607	4510			
MroI	T!CCGGA	1	1394					
MscI	TGG!CCA	4	750	1053	1074	2852		
MseI	T!TAA	15	8	1471	1532	1653	1674	
			1685	1697	1708	1725	1823	
			2094	3913	3927	3932	3984	
MspI	C!CGG	23	602	658	668	828	1188	
			1389	1395	1988	2675	2752	
			2774	2802	2933	3023	3090	
			3271	3546	3554	3646	4120	
			4310	4336	4483			
MstI	TGC!GCA	1	2872					
MstII	CC!TNAGG	2	2250	3882				
MunI	C!AATTG	1	1520					

MvaI	CC!WGG	14	91 2306 3839	284 2361 4529	847 2378 4542	857 3157 4663	1055 3736
MvnI	CG!CG	21	61 1323 2090 3575 4645	652 1353 2114 3659	768 1419 2145 3722	999 1694 2836 3791	1038 2070 3137 4064
NaeI	GCC!GGC	3	1989	3272	3555		
NarI	GG!CGCC	3	690	879	2770		
NciI	CC!SGG	6	658 4311	659	2774	2934	3547
NcoI	C!CATGG	3	361	2499	3202		
NdeI	CA!TATG	1	235				
NdeII	!GATC	25	586 1182 2611 3109 3950	610 1216 2630 3187 4028	661 1315 2941 3563 4036	711 1427 3019 3579 4047	1135 2607 3100 3938 4122
NgoMI	G!CCGGC	3	1987	3270	3553		
NheI	G!CTAGC	1	592				
NlaIII	CATG!	18	305 2200 2989 3972	365 2340 3175 4692	682 2412 3206 4743	937 2503 3232	1282 2644 3588
NlaIV	GGN!NCC	22	468 880 1946 2771 4621	648 904 1958 2806 4660	656 1252 2149 3654	663 1393 2310 3733	691 1925 2382 3778
NotI	GC!GGCCGC	1	1414				
NruI	TCG!CGA	0					
NsiI	ATGCA!T	3	2342	2414	4745		
Nsp(7524)I	RCATG!Y	5	937	2340	2412	3175	4692
Nsp(7524)V	TT!CGAA	2	628	3452			
NspBII	CMG!CKG	7	652 4105	687 4350	768	2268	2876
NspII	GDGCH!C	15	621 1260 2883	658 1266 3073	840 1961 3135	846 2716 3845	854 2809 4378
NspIII	C!YCGRG	4	614	657	905	1265	
NspIV	G!GNCC	12	84 1250 3835	277 1877 3868	654 3286	655 3731	902 3777
NunII	GG!CGCC	3	690	879	2770		
PacI	TTAAT!TAA	0					
Paer71	C!TCGAG	1	614				
PalI	GG!CC	29	85 1053 1251 2539 3243 4214	278 1074 1416 2548 3270 4648	656 1142 1736 2591 3779 4666	750 1152 1878 2678 3836 4677	903 1214 2533 2852 3869
PflMI	CCANNNN!NTGG	1	1081				
PleI	GAGTCNNNN!	2	1821	2253			
PleI	!NNNNNGACTC	6	405 4312	599	1415	1829	3435
PmaCI	CAC!GTG	3	1078	1261	1291		
PmeI	GTTT!AAAC	0					

PmlI	CAC!GTG	3	1078	1261	1291			
PpuMI	RG!GWCCY	0						
PshAI	GACNN!NNGTC	0						
PstI	CTGCA!G	1	639					
PvuI	CGAT!CG	0						
PvuII	CAG!CTG	2	2268	2876				
RmaI	C!TAG	8	593	1425	1619	2037	2593	
			3608	3942	4195			
RsaI	GT!AC	12	220	245	300	333	384	
			541	648	899	1031	1124	
			1271	3076				
RsrI	G!AATTC	1	630					
RsrII	CG!GWCCG	1	3286					
SacI	GAGCT!C	1	621					
SacII	CCGC!GG	2	653	769				
SalI	G!TCGAC	1	640					
Sau3AI	!GATC	25	586	610	661	711	1135	
			1182	1216	1315	1427	2607	
			2611	2630	2941	3019	3100	
			3109	3187	3563	3579	3938	
			3950	4028	4036	4047	4122	
Sau96I	G!GNCC	12	84	277	654	655	902	
			1250	1877	3286	3731	3777	
			3835	3868				
SauI	CC!TNAGG	2	2250	3882				
ScaI	AGT!ACT	0						
ScrFI	CC!NGG	20	91	284	658	659	847	
			857	1055	2306	2361	2378	
			2774	2934	3157	3547	3736	
			3839	4311	4529	4542	4663	
SduI	GDGCH!C	15	621	658	840	846	854	
			1260	1266	1961	2716	2809	
			2883	3073	3135	3845	4378	
SecI	C!CNNGG	24	361	650	657	703	766	
			845	855	1002	1054	1356	
			2304	2376	2499	2534	2543	
			2592	2933	3202	3607	3734	
			3735	3837	3838	4528		
SexI	!CTCGAG	1	613					
SfaNI	GCATCNNNNN!	7	771	1586	2349	2421	3069	
			3133	3408				
SfaNI	!NNNNNNNNNGATGC	7	358	775	796	2728	2983	
			3199	4591				
SfcI	C!TRYAG	4	635	2105	4232	4423		
SfiI	GGCCNNNN!NGGCC	1	2545					
SfuI	TT!CGAA	2	628	3452				
SgrAI	CR!CCGGYG	1	827					
SinI	G!GWCC	2	3286	3731				
SmaI	CCC!GGG	1	659					
SnaBI	TAC!GTA	1	341					
SnaI	!GTATAC	0						
SnoI	G!TGCAC	2	1256	4374				
SpeI	A!CTAGT	0						
SphI	GCATG!C	4	937	2340	2412	3175		
SpI	C!GTACG	0						
SrfI	GCCC!GGGC	0						
Sse8387I	CCTGCA!GG	0						
SspI	AAT!ATT	2	1678	2231				
SstI	GAGCT!C	1	621					

SstII	CCGC!GG	2	653	769				
SstIII	!ACGT	19	122	134	175	258	339	
			444	719	947	1076	1259	
			1289	1829	1841	1884	1994	
			2885	3072	3853	3986		
StuI	AGG!CCT	1	2591					
StyI	C!CWWGG	5	361	2499	2592	3202	3607	
StySJI	!GAGNNNNNNNGTRC	0						
StySJI	!GYACNNNNNNNCTC	0						
SwaI	ATTT!AAAT	0						
TaqI	T!CGA	17	615	628	641	972	1014	
			1383	1919	2610	2883	3039	
			3063	3099	3261	3452	3497	
			3752	4590				
TaqII	GACCGANNNNNNNNNNN!	4	1328	1790	2807	3475		
TaqII	!NNNNNNNNNTCGGTC	1	3719					
TaqII	CACCCANNNNNNNNNNN!	1	1238					
TaqII	!NNNNNNNNNTGGGTG	3	173	2674	3266			
TfiI	G!AWTC	6	1090	3255	3389	3499	3536	
			4714					
ThaI	CG!CG	21	61	652	768	999	1038	
			1323	1353	1419	1694	2070	
			2090	2114	2145	2836	3137	
			3575	3659	3722	3791	4064	
			4645					
Tsp45I	!GTSAC	6	859	1006	1309	2059	2890	
			3196					
TspEI	!AATT	13	19	630	985	1102	1520	
			1584	1662	1688	1699	2346	
			2418	2510	3928			
Tth111I	GACN!NNGTC	1	2888					
Tth111II	CAARCANNNNNNNNNNN!	1	4097					
Tth111III	!NNNNNNNNNTGYTTG	3	3205	4065	4104			
TthHB8I	T!CGA	17	615	628	641	972	1014	
			1383	1919	2610	2883	3039	
			3063	3099	3261	3452	3497	
			3752	4590				
Van91I	CCANNNN!NTGG	1	1081					
VspI	AT!TAAT	1	8					
XbaI	T!CTAGA	1	1424					
XcmI	!CCANNNNNNNNNTCG	1	3045					
XcyI	C!CCGGG	1	657					
XhoI	C!TCGAG	1	614					
XhoII	R!GATCY	11	586	610	661	711	2941	
			3187	3579	3938	3950	4036	
			4047					
XmaI	C!CCGGG	1	657					
XmaIII	C!GGCCG	2	1414	2676				
XmnI	GAANN!NNTTC	1	917					
XorII	CGAT!CG	0						