



			2753	3455	3534		
ApaI	GGGCC!C	1	1385				
ApaLI	G!TGCAC	2	677	4357			
ApoI	R!AATTY	4	1357	1567	1671	1682	
ApyI	CC!WGG	20	91	284	781	791	893
			914	968	1022	1094	1175
			1274	2289	2344	2361	3140
			3719	3822	4512	4525	4646
AquI	C!YCGRG	4	836	878	1341	1384	
AscI	GG!CGCGCC	0					
AseI	AT!TAAT	1	8				
AsnI	AT!TAAT	1	8				
Asp700I	GAANN!NNTTC	1	857				
Asp718I	G!GTACC	1	1373				
AspHI	GWGCW!C	8	681	843	1220	1272	1348
			2866	3056	4361		
AspI	GACN!NNGTC	1	2871				
AsuI	G!GNCC	16	84	277	783	1024	1184
			1240	1252	1326	1381	1382
			1860	3269	3714	3760	3818
			3851				
AsuII	TT!CGAA	2	1355	3435			
AvaI	C!YCGRG	4	836	878	1341	1384	
AvaII	G!GWCC	4	1240	1326	3269	3714	
AvaIII	ATGCA!T	3	2325	2397	4728		
AviII	TGC!GCA	1	2855				
AvrI	!CYCGRG	4	835	877	1340	1383	
AvrII	C!CTAGG	2	2575	3590			
AxyI	CC!TNAGG	2	2233	3865			
BalI	TGG!CCA	1	2835				
BamHI	G!GATCC	1	1388				
BanI	G!GYRCC	5	466	1373	1906	2752	2787
BanII	GRGCY!C	5	1348	1385	1944	3118	3828
BanIII	AT!CGAT	1	2593				
BbeI	GGCGC!C	1	2756				
BbiIII/AcyI	GR!CGYC	8	123	176	259	445	720
			2753	3455	3534		
BbrPI	CAC!GTG	0					
BbsI	!GTCTTC	0					
BbsI	!GAAGAC	0					
BbvI	GCAGCNNNNNNNN!	7	1153	1541	2826	2868	3389
			3842	4342			
BbvI	!NNNNNNNNNNNGCTGC	9	756	1280	2035	2700	2884
			2977	4043	4249	4252	
BbvII	GAAGACNN!	0					
BbvII	!NNNNNNGTCTTC	0					
BcefI	ACGGCNNNNNNNNNN!	11	685	697	745	826	937
			1027	1105	1198	1321	3179
			3666				
BcefI	!NNNNNNNNNNNNNGCCGT	3	1895	2713	4172		
BcgI	!GCANNNNNNNTCG	0					
BcgI	!CGANNNNNNNTGC	0					
BclI	T!GATCA	1	1410				
BcnI	CC!SGG	6	1385	1386	2757	2917	3530
			4294				
BfaI	C!TAG	8	593	1401	1602	2020	2576
			3591	3925	4178		
BfrI	C!TTAAG	0					
BglI	GCCNNNN!NGGC	4	91	213	284	2528	

BglII	A!GATCT	1	1337					
BinI	!NNNNNGATCC	7	581	1189	1383	2997	3541	
			3928	4025				
BinI	GGATCNNNN!	9	1396	1405	2621	2932	3178	
			3570	3929	4027	4113		
BlnI	C!CTAGG	2	2575	3590				
BmyI	GDGCH!C	17	651	681	780	843	1173	
			1220	1272	1348	1385	1944	
			2699	2792	2866	3056	3118	
			3828	4361				
BpmI	!CTCCAG	1	3550					
BpmI	!CTGGAG	5	736	1033	1093	1273	3571	
Bpu1102I	GC!TNAGC	0						
BsaAI	YAC!GTR	3	341	1869	3057			
BsaBI	GATNN!NNATC	3	1199	1415	2612			
BsaHI	GR!CGYC	8	123	176	259	445	720	
			2753	3455	3534			
BsaI	GGTCTCN!	0						
BsaI	!NNNNNGAGACC	1	3742					
BsaJI	C!CNNGG	26	361	779	789	879	937	
			966	1021	1173	1174	1303	
			1377	1384	2287	2359	2482	
			2517	2526	2575	2916	3185	
			3590	3717	3718	3820	3821	
			4511					
BseAI	T!CCGGA	1	1328					
BsePI	!GCGCGC	0						
BsgI	!GTGCAG	1	1138					
BsgI	!CTGCAC	1	753					
BsiEI	CGRY!CG	3	606	2662	4337			
BsiWI	C!GTACG	0						
BsiYI	CCNNNNN!NNGG	25	50	618	780	913	943	
			1033	1249	1309	1765	2091	
			2483	2734	3278	3559	3591	
			3592	3723	3758	3808	3809	
			3840	4193	4472	4638	4656	
BslI	CCNNNNN!NNGG	25	50	618	780	913	943	
			1033	1249	1309	1765	2091	
			2483	2734	3278	3559	3591	
			3592	3723	3758	3808	3809	
			3840	4193	4472	4638	4656	
BsmAI	!GTCTC	1	429					
BsmAI	!GAGAC	4	2182	2600	3619	3747		
BsmI	GAATGCN!	1	1504					
BsmI	G!CATTC	1	1597					
Bsp1286I	GDGCH!C	17	651	681	780	843	1173	
			1220	1272	1348	1385	1944	
			2699	2792	2866	3056	3118	
			3828	4361				
BspDI	AT!CGAT	1	2593					
BspEI	T!CCGGA	1	1328					
BspHI	T!CATGA	2	2179	3951				
BspMI	ACCTGCNNNN!	2	3021	3471				
BspMI	!NNNNNNNNGCAGGT	1	2640					
BspMII	T!CCGGA	1	1328					
BspWI	GCNNNNN!NNGC	38	91	213	245	284	377	
			401	661	702	708	762	
			775	819	828	1050	1242	
			1293	1980	2010	2037	2079	

			2081	2320	2392	2443	2522
			2528	2744	2828	2851	2990
			2996	3113	3196	3463	3650
			3854	4053	4625		
BsrFI	R!CCGGY	7	601	638	761	1970	3072
			3253	3536			
BsrI	ACTGGN!	3	2697	2898	4144		
BsrI	C!CAGT	6	296	817	1782	2460	4256
			4269				
BssHII	G!CGCGC	0					
Bst1107I	GTA!TAC	0					
BstBI	TT!CGAA	2	1355	3435			
BstEII	G!GTNACC	1	793				
BstI	G!GATCC	1	1388				
BstNI	CC!WGG	20	91	284	781	791	893
			914	968	1022	1094	1175
			1274	2289	2344	2361	3140
			3719	3822	4512	4525	4646
BstPI	G!GTNACC	1	793				
BstUI	CG!CG	19	61	702	939	1257	1379
			1641	1677	2053	2073	2097
			2128	2819	3120	3558	3642
			3705	3774	4047	4628	
BstXI	CCANNNNN!NTGG	0					
BstYI	R!GATCY	11	586	1337	1388	1397	2924
			3170	3562	3921	3933	4019
			4030				
Bsu36I	CC!TNAGG	2	2233	3865			
CbiI	TT!CGAA	2	1355	3435			
CcrI	C!TCGAG	1	1341				
CelII	GC!TNAGC	0					
CfoI	GCG!C	25	598	702	872	900	1289
			2019	2027	2053	2075	2084
			2097	2128	2747	2755	2819
			2856	3122	3382	3558	3644
			4047	4156	4330	4430	4497
Cfr10I	R!CCGGY	7	601	638	761	1970	3072
			3253	3536			
Cfr13I	G!GNCC	16	84	277	783	1024	1184
			1240	1252	1326	1381	1382
			1860	3269	3714	3760	3818
			3851				
Cfr9I	C!CCGGG	1	1384				
CfrI	Y!GGCCR	6	682	1146	2659	2833	3224
			3251				
ClaI	AT!CGAT	1	2593				
CpoI	CG!GWCCG	1	3269				
Csp45I	TT!CGAA	2	1355	3435			
CspI	CG!GSCCG	0					
CviJI	RG!CY	93	43	85	94	278	567
			631	664	684	736	769
			784	885	985	1026	1033
			1044	1053	1082	1092	1144
			1148	1185	1253	1318	1346
			1352	1383	1422	1532	1699
			1719	1861	1942	1956	1970
			2251	2292	2364	2487	2516
			2522	2531	2539	2562	2574
			2580	2661	2678	2686	2713

			2738	2822	2831	2835	2859
			2897	2973	2990	3009	3072
			3116	3126	3143	3226	3253
			3257	3294	3317	3333	3513
			3540	3601	3723	3762	3819
			3826	3833	3852	3863	4114
			4143	4186	4197	4262	4341
			4366	4371	4417	4507	4605
			4631	4649	4660		
CvnI	CC!TNAGG	2	2233	3865			
DdeI	C!TNAG	9	1214	1221	1334	2233	2535
			3416	3865	3988	4397	
DpnI	GA!TC	24	588	659	743	1196	1339
			1390	1399	1412	2592	2596
			2615	2926	3004	3085	3094
			3172	3548	3564	3923	3935
			4013	4021	4032	4107	
DpnII	!GATC	24	586	657	741	1194	1337
			1388	1397	1410	2590	2594
			2613	2924	3002	3083	3092
			3170	3546	3562	3921	3933
			4011	4019	4030	4105	
DraI	TTT!AAA	3	1455	3897	3916		
DraII	RG!GNCCY	1	3851				
DraIII	CACNNN!GTG	3	1060	1267	1869		
DrdI	GACNNNN!NNGTC	3	1824	2780	4569		
DsaI	C!CRYGG	6	361	937	1303	1377	2482
			3185				
DsaV	!CCNGG	26	89	282	779	789	891
			912	966	1020	1092	1173
			1272	1383	1384	2287	2342
			2359	2755	2915	3138	3528
			3717	3820	4292	4510	4523
			4644				
EaeI	Y!GGCCR	6	682	1146	2659	2833	3224
			3251				
EagI	C!GGCCG	1	2659				
Eam1105I	GACNNN!NNGTC	0					
EarI	!CTCTTC	1	907				
EarI	!GAAGAG	3	2224	3101	3311		
Ecl136II	GAG!CTC	1	1346				
EclXI	C!GGCCG	1	2659				
Eco105I	TAC!GTA	1	341				
Eco31I	GGTCTCN!	0					
Eco31I	!NNNNNGAGACC	1	3742				
Eco47I	G!GWCC	4	1240	1326	3269	3714	
Eco47III	AGC!GCT	1	597				
Eco52I	C!GGCCG	1	2659				
Eco57I	!CTGAAG	3	985	2877	3309		
Eco57I	!CTTCAG	2	1281	4143			
Eco81I	CC!TNAGG	2	2233	3865			
EcoNI	CCTNN!NNNAGG	1	911				
EcoO109I	RG!GNCCY	1	3851				
EcoO65I	G!GTNACC	1	793				
EcoRI	G!AATTC	1	1357				
EcoRII	!CCWGG	20	89	282	779	789	891
			912	966	1020	1092	1173
			1272	2287	2342	2359	3138
			3717	3820	4510	4523	4644

EcoRV	GAT!ATC	0					
EcoT14I	C!CWWGG	5	361	2482	2575	3185	3590
EcoT22I	ATGCA!T	3	2325	2397	4728		
EcoT38I	GRGCY!C	5	1348	1385	1944	3118	3828
EheI	GGC!GCC	1	2754				
Esp3I	CGTCTCN!	0					
Esp3I	!NNNNNGAGACG	0					
EspI	GC!TNAGC	0					
FbaI	T!GATCA	1	1410				
FinI	!GTCCC	4	2283	2355	2419	3714	
FinI	!GGGAC	6	161	312	480	2889	3421
			3530				
Fnu4HI	GC!NGC	35	703	770	940	1132	1135
			1142	1294	1530	2049	2071
			2085	2523	2662	2714	2725
			2815	2820	2857	2898	2985
			2988	2991	3227	3323	3364
			3378	3492	3831	3846	4057
			4263	4266	4331	4474	4629
FokI	GGATGNNNNNNNNN!	4	2620	3077	3102	3556	
FokI	!NNNNNNNNNNNNNCATCC	5	800	875	890	1004	2426
FspI	TGC!GCA	1	2855				
GdiII	!NNNNNYGGCCG	4	1140	2653	3218	3245	
GdiII	CGGCCRN!	2	688	2665			
GsuI	!CTCCAG	1	3550				
GsuI	!CTGGAG	5	736	1033	1093	1273	3571
HaeI	WGG!CCW	6	1082	2574	2835	4197	4649
			4660				
HaeII	RGCGC!Y	7	599	873	1290	2020	2028
			2756	4431			
HaeIII	GG!CC	28	85	278	684	784	1026
			1082	1092	1148	1185	1253
			1383	1719	1861	2516	2522
			2531	2574	2661	2835	3226
			3253	3762	3819	3852	4197
			4631	4649	4660		
HapII	C!CGG	22	602	639	762	1329	1385
			1395	1971	2658	2735	2757
			2785	2916	3006	3073	3254
			3529	3537	3629	4103	4293
			4319	4466			
HgaI	GACGCNNNNN!	4	527	728	3463	3542	
HgaI	!NNNNNNNNNNNGCGTC	3	2086	3981	4559		
HgiAI	GWGCW!C	8	681	843	1220	1272	1348
			2866	3056	4361		
HgiEII	!ACCNNNNNNGGT	1	4083				
HhaI	GCG!C	25	598	702	872	900	1289
			2019	2027	2053	2075	2084
			2097	2128	2747	2755	2819
			2856	3122	3382	3558	3644
			4047	4156	4330	4430	4497
Hin1I	GR!CGYC	8	123	176	259	445	720
			2753	3455	3534		
HinP1I	G!CGC	25	596	700	870	898	1287
			2017	2025	2051	2073	2082
			2095	2126	2745	2753	2817
			2854	3120	3380	3556	3642
			4045	4154	4328	4428	4495
HincII	GTY!RAC	2	1369	1516			

HindIII	A!AGCTT	1	1350					
HinfI	G!ANTC	13	411	1277	1332	1796	1818	
			2228	3238	3372	3424	3482	
			3519	4301	4697			
HpaI	GTT!AAC	1	1516					
HpaII	C!CGG	22	602	639	762	1329	1385	
			1395	1971	2658	2735	2757	
			2785	2916	3006	3073	3254	
			3529	3537	3629	4103	4293	
			4319	4466				
HphI	GGTGANNNNNNNN!	7	377	805	958	982	1111	
			3824	3940				
HphI	!NNNNNNNTCACC	2	1870	2931				
KasI	G!GCGCC	1	2752					
KpnI	GGTAC!C	1	1377					
Ksp632I	CTCTTCN!	1	914					
Ksp632I	!NNNNGAAGAG	3	2220	3097	3307			
KspI	CCGC!GG	2	940	1380				
MaeI	C!TAG	8	593	1401	1602	2020	2576	
			3591	3925	4178			
MaeII	A!CGT	17	123	135	176	259	340	
			445	675	1059	1167	1813	
			1825	1868	1978	2869	3056	
			3837	3970				
MaeIII	!GTNAC	13	62	149	498	793	1541	
			2042	2054	2873	3179	3869	
			4135	4251	4314			
MamI	GATNN!NNATC	3	1199	1415	2612			
MboI	!GATC	24	586	657	741	1194	1337	
			1388	1397	1410	2590	2594	
			2613	2924	3002	3083	3092	
			3170	3546	3562	3921	3933	
			4011	4019	4030	4105		
MboII	GAAGANNNNNNNN!	6	859	2009	2237	3114	3324	
MboII	!NNNNNNNTCTTC	6	853	901	3404	3571	3771	
			4014					
McrI	!CGRYCG	3	602	2658	4333			
MfeI	!CAATTG	1	1502					
MflI	R!GATCY	11	586	1337	1388	1397	2924	
			3170	3562	3921	3933	4019	
			4030					
MluI	A!CGCGT	1	1639					
MmeI	!TCCRAC	1	1820					
MmeI	!GTYGGA	2	4296	4480				
MnlI	CCTCNNNNNNN!	11	812	917	1472	1481	2536	
			2542	3354	3560	3874	4244	
			4568					
MnlI	!NNNNNNNGAGG	25	541	618	699	705	873	
			936	948	999	1089	1119	
			1242	1431	1896	2227	2505	
			2511	2548	2551	2563	2603	
			2667	2803	3160	3590	4493	
MroI	T!CCGGA	1	1328					
MscI	TGG!CCA	1	2835					
MseI	T!TAA	15	8	1454	1515	1636	1657	
			1668	1680	1691	1708	1806	
			2077	3896	3910	3915	3967	
MspI	C!CGG	22	602	639	762	1329	1385	

			1395	1971	2658	2735	2757
			2785	2916	3006	3073	3254
			3529	3537	3629	4103	4293
			4319	4466			
MstI	TGC!GCA	1	2855				
MstII	CC!TNAGG	2	2233	3865			
MunI	C!AATTG	1	1503				
MvaI	CC!WGG	20	91	284	781	791	893
			914	968	1022	1094	1175
			1274	2289	2344	2361	3140
			3719	3822	4512	4525	4646
MvnI	CG!CG	19	61	702	939	1257	1379
			1641	1677	2053	2073	2097
			2128	2819	3120	3558	3642
			3705	3774	4047	4628	
NaeI	GCC!GGC	4	640	1972	3255	3538	
NarI	GG!CGCC	1	2753				
NciI	CC!SGG	6	1385	1386	2757	2917	3530
			4294				
NcoI	C!CATGG	3	361	2482	3185		
NdeI	CA!TATG	1	235				
NdeII	!GATC	24	586	657	741	1194	1337
			1388	1397	1410	2590	2594
			2613	2924	3002	3083	3092
			3170	3546	3562	3921	3933
			4011	4019	4030	4105	
NgoMI	G!CCGGC	4	638	1970	3253	3536	
NheI	G!CTAGC	1	592				
NlaIII	CATG!	21	305	365	616	847	877
			1072	1267	1312	2183	2323
			2395	2486	2627	2972	3158
			3189	3215	3571	3955	4675
			4726				
NlaIV	GGN!NCC	18	468	1186	1375	1383	1390
			1908	1929	1941	2132	2293
			2365	2754	2789	3637	3716
			3761	4604	4643		
NotI	GC!GGCCGC	0					
NruI	TCG!CGA	0					
NsiI	ATGCA!T	3	2325	2397	4728		
Nsp(7524)I	RCATG!Y	4	2323	2395	3158	4675	
Nsp(7524)V	TT!CGAA	2	1355	3435			
NspBII	CMG!CKG	7	939	1144	1379	2251	2859
			4088	4333			
NspII	GDGCH!C	17	651	681	780	843	1173
			1220	1272	1348	1385	1944
			2699	2792	2866	3056	3118
			3828	4361			
NspIII	C!YCGRG	4	836	878	1341	1384	
NspIV	G!GNCC	16	84	277	783	1024	1184
			1240	1252	1326	1381	1382
			1860	3269	3714	3760	3818
			3851				
NunII	GG!CGCC	1	2753				
PacI	TTAAT!TAA	0					
Paer71	C!TCGAG	1	1341				
PalI	GG!CC	28	85	278	684	784	1026
			1082	1092	1148	1185	1253
			1383	1719	1861	2516	2522

			2531	2574	2661	2835	3226
			3253	3762	3819	3852	4197
			4631	4649	4660		
PflMI	CCANNNN!NTGG	2	1033	1309			
PleI	GAGTCNNNN!	3	1285	1804	2236		
PleI	!NNNNNGACTC	5	405	1326	1812	3418	4295
PmaCI	CAC!GTG	0					
PmeI	GTTT!AAAC	0					
PmlI	CAC!GTG	0					
PpuMI	RG!GWCCY	0					
PshAI	GACNN!NNGTC	0					
PstI	CTGCA!G	1	1366				
PvuI	CGAT!CG	0					
PvuII	CAG!CTG	3	1144	2251	2859		
RmaI	C!TAG	8	593	1401	1602	2020	2576
			3591	3925	4178		
RsaI	GT!AC	12	220	245	300	333	384
			541	929	1040	1064	1322
			1375	3059			
RsrI	G!AATTC	1	1357				
RsrII	CG!GWCCG	1	3269				
SacI	GAGCT!C	1	1348				
SacII	CCGC!GG	2	940	1380			
SalI	G!TCGAC	1	1367				
Sau3AI	!GATC	24	586	657	741	1194	1337
			1388	1397	1410	2590	2594
			2613	2924	3002	3083	3092
			3170	3546	3562	3921	3933
			4011	4019	4030	4105	
Sau96I	G!GNCC	16	84	277	783	1024	1184
			1240	1252	1326	1381	1382
			1860	3269	3714	3760	3818
			3851				
SauI	CC!TNAGG	2	2233	3865			
ScaI	AGT!ACT	0					
ScrFI	CC!NGG	26	91	284	781	791	893
			914	968	1022	1094	1175
			1274	1385	1386	2289	2344
			2361	2757	2917	3140	3530
			3719	3822	4294	4512	4525
			4646				
SduI	GDGCH!C	17	651	681	780	843	1173
			1220	1272	1348	1385	1944
			2699	2792	2866	3056	3118
			3828	4361			
SecI	C!CNNGG	26	361	779	789	879	937
			966	1021	1173	1174	1303
			1377	1384	2287	2359	2482
			2517	2526	2575	2916	3185
			3590	3717	3718	3820	3821
			4511				
SexI	!CTCGAG	1	1340				
SfaNI	GCATCNNNNN!	9	651	822	987	1569	2332
			2404	3052	3116	3391	
SfaNI	!NNNNNNNNNGATGC	5	358	2711	2966	3182	4574
SfcI	C!TRYAG	4	1362	2088	4215	4406	
SfiI	GGCCNNNN!NGGCC	1	2528				
SfuI	TT!CGAA	2	1355	3435			
SgrAI	CR!CCGGYG	0					

SinI	G!GWCC	4	1240	1326	3269	3714		
SmaI	CCC!GGG	1	1386					
SnaBI	TAC!GTA	1	341					
SnaI	!GTATAC	0						
SnoI	G!TGCAC	2	677	4357				
SpeI	A!CTAGT	0						
SphI	GCATG!C	3	2323	2395	3158			
SplI	C!GTACG	0						
SrfI	GCCC!GGGC	0						
Sse8387I	CCTGCA!GG	0						
SspI	AAT!ATT	2	1661	2214				
SstI	GAGCT!C	1	1348					
SstII	CCGC!GG	2	940	1380				
SstIII	!ACGT	17	122	134	175	258	339	
			444	674	1058	1166	1812	
			1824	1867	1977	2868	3055	
			3836	3969				
StuI	AGG!CCT	1	2574					
StyI	C!CWWGG	5	361	2482	2575	3185	3590	
StySJI	!GAGNNNNNNNGTRC	0						
StySJI	!GYACNNNNNNNCTC	0						
SwaI	ATTT!AAAT	0						
TaqI	T!CGA	18	660	954	981	1125	1342	
			1355	1368	1902	2593	2866	
			3022	3046	3082	3244	3435	
			3480	3735	4573			
TaqII	GACCGANNNNNNNNNNN!	3	1773	2790	3458			
TaqII	!NNNNNNNNNTCGGTC	1	3702					
TaqII	CACCCANNNNNNNNNNN!	1	1316					
TaqII	!NNNNNNNNNTGGGTG	3	173	2657	3249			
TfiI	G!AWTC	5	3238	3372	3482	3519	4697	
ThaI	CG!CG	19	61	702	939	1257	1379	
			1641	1677	2053	2073	2097	
			2128	2819	3120	3558	3642	
			3705	3774	4047	4628		
Tsp45I	!GTSAC	4	793	2042	2873	3179		
TspEI	!AATT	11	19	1357	1503	1567	1645	
			1671	1682	2329	2401	2493	
			3911					
Tth111I	GACN!NNGTC	1	2871					
Tth111II	CAARCANNNNNNNNNNN!	1	4080					
Tth111III	!NNNNNNNNNTGYTTG	3	3188	4048	4087			
TthHB8I	T!CGA	18	660	954	981	1125	1342	
			1355	1368	1902	2593	2866	
			3022	3046	3082	3244	3435	
			3480	3735	4573			
Van91I	CCANNNN!NTGG	2	1033	1309				
VspI	AT!TAAT	1	8					
XbaI	T!CTAGA	1	1400					
XcmI	!CCANNNNNNNNNNTCG	1	3028					
XcyI	C!CCGGG	1	1384					
XhoI	C!TCGAG	1	1341					
XhoII	R!GATCY	11	586	1337	1388	1397	2924	
			3170	3562	3921	3933	4019	
			4030					
XmaI	C!CCGGG	1	1384					
XmaIII	C!GGCCG	1	2659					
XmnI	GAANN!NNTTC	1	857					
XorII	CGAT!CG	0						