

pTagGFP2-mito vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1562; 1767
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1850; 2806; 4595
AatI	AGG!CCT	1	2600
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	0	
AccII	CG!CG	20	60; 662; 664; 793; 1030; 1348; 1428; 1703; 2079; 2099; 2123; 2154; 2845; 3146; 3584; 3668; 3731; 3800; 4073; 4654
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2881
Acc36I	ACCTGCNNNN!	2	3047; 3497
Acc36I	!NNNNNNNNGCAGGT	1	2666
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	4	465; 1932; 2778; 2813
AccB7I	CCANNNN!NTGG	3	680; 1124; 1400
AccBSI	CCG!CTC	2	2203; 3392
AccBSI	GAG!CGG	3	709; 2039; 3446
AceIII	CAGCTCNNNNNNN!	1	1735
AceIII	!NNNNNNNNNNGAGCTG	5	552; 708; 741; 1062; 1395
AciI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 612; 660; 920; 1028; 1067; 1160; 1205; 1334; 1346; 1426; 2094; 2097; 2111; 2201; 2449; 2461; 2470; 2482; 2492; 2503; 2549; 2688; 2751; 3253; 3298; 3364; 3390; 3515; 3518; 3666; 3798; 4105; 4249; 4745
AciI	G!CGG	31	370; 403; 528; 623; 647; 709; 793; 1030; 1222; 1225; 1422; 2039; 2066; 2154; 2264; 2845; 2909; 3010; 3013; 3293; 3348; 3446; 3584; 3731; 3871; 4114; 4359; 4480; 4499; 4626; 4654
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	8	694; 2647; 2958; 3204; 3596; 3955; 4053; 4139
AclWI	!NNNNNGATCC	8	580; 665; 681; 1280; 3023; 3567; 3954; 4051
AcoI	Y!GGCCR	7	773; 1237; 1423; 2685; 2859; 3250; 3277
AcsI	R!AATY	3	1593; 1697; 1708
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	1098; 2925; 3357
AcuI	!NNNNNNNNNNNNNCTTCAG	2	1358; 4155
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 609; 811; 2779; 3481; 3560
AdeI	CACNNN!GTG	3	1151; 1358; 1895
AfaI	GT!AC	11	219; 244; 299; 332; 383; 540; 1020; 1131; 1155; 1413; 3085
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	25	49; 680; 709; 871; 1004; 1034; 1124; 1169; 1340; 1400; 1791; 2117; 2509; 2760; 3304; 3585; 3617; 3749; 3784; 3834; 3866; 4219; 4498; 4664; 4682
AfiII	C!TTAAG	1	1661
AfiIII	A!CRYGT	2	1150; 4697
AgeI	A!CCGGT	1	692
AgsI	TTS!AA	9	956; 1094; 1139; 1199; 2190; 2234; 2244; 2657; 4233
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	767
Ajni	!CCWGG	20	88; 281; 870; 880; 982; 1003; 1057; 1111; 1183; 1264; 1363; 2313; 2368; 2385; 3164; 3743; 3846; 4536; 4549; 4670
AjuI	GAANNNNNNNTTGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	2	882; 1059
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2353; 2425
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	2	2319; 2391
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1861
AloI	!NNNNNNNNGGANNNNNNGTTC	1	822
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	1	854
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1829
AluI	AG!CT	21	566; 722; 755; 827; 860; 1076; 1124; 1135; 1235; 1409; 1558; 1725; 1982; 2277; 2565; 2885; 3343; 4140; 4397; 4443; 4533
AluBI	AG!CT	21	566; 722; 755; 827; 860; 1076; 1124; 1135; 1235; 1409; 1558; 1725; 1982; 2277; 2565; 2885; 3343; 4140; 4397; 4443; 4533
AlwI	GGATCNNNN!	8	694; 2647; 2958; 3204; 3596; 3955; 4053; 4139
AlwI	!NNNNNGATCC	8	580; 665; 681; 1280; 3023; 3567; 3954; 4051
Alw21I	GWGCW!C	7	772; 934; 1311; 1363; 2892; 3082; 4387
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	4	2203; 2621; 3640; 3768
Alw44I	G!TGCAC	2	768; 4383
AlwNI	CAGNN!CTG	3	1381; 3880; 4288
Ama87I	C!YCGRG	2	927; 969
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	4	911; 2347; 2419; 3881
ApaLI	G!TGCAC	2	768; 4383
ApeKI	G!CWGC	19	614; 617; 620; 860; 1232; 1384; 1555; 2074; 2739; 2840; 2882; 2923; 3016; 3403; 3856; 4082; 4288; 4291; 4356
ApoI	R!AATTY	3	1593; 1697; 1708
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3294
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3088; 3741; 4579
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3178
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	742; 2607
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	3349
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	24	586; 671; 687; 749; 833; 1286; 1322; 1437; 2617; 2621; 2640; 2951; 3029; 3110; 3119; 3197; 3573; 3589; 3948; 3960; 4038; 4046; 4057; 4132
AsiGI	A!CCGGT	1	692
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2897
Asp700I	GAANN!NNTTC	1	948
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	2601; 3616
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	26	664; 666; 793; 963; 991; 1380; 2045; 2053; 2079; 2101; 2110; 2123; 2154; 2773; 2781; 2845; 2882; 3148; 3408; 3584; 3670; 4073; 4182; 4356; 4456; 4523
AspS9I	G!GNCC	14	83; 276; 641; 874; 1115; 1275; 1331; 1343; 1886; 3295; 3740; 3786; 3844; 3877
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	3461
AsuC2I	CC!SGG	5	644; 2783; 2943; 3556; 4320
AsuHPI	GGTGANNNNNNNNN!	6	376; 896; 1049; 1073; 3850; 3966
AsuHPI	!NNNNNNNTCACC	2	1896; 2957
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	927; 969
AvaII	G!GWCC	3	1331; 3295; 3740
AviII	TGC!GCA	1	2881
AvrII	C!CTAGG	2	2601; 3616

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AxyI	CC!TNAGG	2	2259; 3891
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI:C	7	742; 772; 871; 1264; 2725; 2818; 4387
BalI	TGG!CCA	1	2861
BamHI	G!GATCC	1	686
BanI	G!GYRCC	4	465; 1932; 2778; 2813
BanII	GRGCY!C	3	1970; 3144; 3854
BanIII	AT!CGAT	1	2619
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	3	680; 1124; 1400
BauI	C!ACGAG	2	3497; 4524
BauI	C!TCGTG	1	3371
BbeI	GGCGC!C	1	2782
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2349; 2421; 3184
BbvI	GCAGCNNNNNN!	7	1244; 1567; 2852; 2894; 3415; 3868; 4368
BbvI	!NNNNNNNNNNNGCTGC	9	601; 847; 1371; 2061; 2726; 2910; 3003; 4069; 4275
Bbv12I	GWGCW!C	7	772; 934; 1311; 1363; 2892; 3082; 4387
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	1002; 1299; 1909; 2473; 2999; 3501
BccI	!NNNNNGATGG	3	1877; 2657; 3085
BceAI	ACGGCNNNNNNNNNN!	10	776; 836; 917; 1028; 1118; 1196; 1289; 1412; 3205; 3692
BceAI	!NNNNNNNNNNNGCCGT	3	1920; 2738; 4197
Bcefl	ACGGCNNNNNNNNNN!	10	776; 836; 917; 1028; 1118; 1196; 1289; 1412; 3205; 3692
Bcefl	!NNNNNNNNNNNGCCGT	3	1921; 2739; 4198
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	2208; 2998; 4499
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	5	644; 2783; 2943; 3556; 4320
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	1308; 4632
BdaI	!NNNNNNNNNTGANNNNNTCA	2	1274; 4598
BfaI	C!TAG	8	592; 1434; 1628; 2046; 2602; 3617; 3951; 4204
BfiI	ACTGGGNNNN!	1	2728
BfiI	!NNNCCCAGT	3	289; 648; 2480
BfmI	C!TRYAG	3	2114; 4241; 4432
BfoI	RGCGC!Y	6	964; 1381; 2046; 2054; 2782; 4457
BfrI	C!TTAAG	1	1661
BfuI	GTATCCNNNNN!	3	2208; 2998; 4499
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3047; 3497
BfuAI	!NNNNNNNNGCAGGT	1	2666
BfuCI	!GATC	24	585; 670; 686; 748; 832; 1285; 1321; 1436; 2616; 2620; 2639; 2950; 3028; 3109; 3118; 3196; 3572; 3588; 3947; 3959; 4037; 4045; 4056; 4131
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2554
BglII	A!GATCT	0	

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BisI	GC!NGC	41	612; 615; 618; 621; 648; 660; 794; 861; 1031; 1223; 1226; 1233; 1385; 1426; 1556; 2075; 2097; 2111; 2549; 2688; 2740; 2751; 2841; 2846; 2883; 2924; 3011; 3017; 3253; 3349; 3390; 3404; 3518; 3857; 3872; 4083; 4289; 4292; 4357; 4500; 4655
BlnI	C!CTAGG	2	2601; 3616
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	41	613; 616; 619; 622; 649; 661; 795; 862; 1032; 1224; 1227; 1234; 1386; 1427; 1557; 2076; 2098; 2112; 2550; 2689; 2741; 2752; 2842; 2847; 2884; 2925; 3012; 3018; 3254; 3350; 3391; 3405; 3519; 3858; 3873; 4084; 4290; 4293; 4358; 4501; 4656
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	1331; 3295; 3740
Bme1390I	CC!NGG	25	90; 283; 644; 872; 882; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2315; 2370; 2387; 2783; 2943; 3166; 3556; 3745; 3848; 4320; 4538; 4551; 4672
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	927; 969
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	767
BmgT120I	GG!NCC	14	84; 277; 642; 875; 1116; 1276; 1332; 1344; 1887; 3296; 3741; 3787; 3845; 3878
BmiI	GGN!NCC	17	467; 651; 688; 1277; 1934; 1955; 1967; 2158; 2319; 2391; 2780; 2815; 3663; 3742; 3787; 4630; 4669
BmrI	ACTGGGNNNNN!	1	2728
BmrI	!NNNNCCCAGT	3	289; 648; 2480
BmrFI	CC!NGG	25	90; 283; 644; 872; 882; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2315; 2370; 2387; 2783; 2943; 3166; 3556; 3745; 3848; 4320; 4538; 4551; 4672
BmsI	GCATCNNNNN!	9	742; 913; 1078; 1595; 2358; 2430; 3078; 3142; 3417
BmsI	!NNNNNNNNNGATGC	5	357; 2737; 2992; 3208; 4600
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2728
BmuI	!NNNNCCCAGT	3	289; 648; 2480
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2568; 3467
BpI	!NNNNNNNNGAGNNNNNCTC	2	2536; 3435
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	5	849; 1146; 1206; 1386; 3619
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3562
Bpu10I	CC!TNAGC	1	1305
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	3461
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4073; 4612
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	2	3155; 4314
BpuMI	CC!SGG	5	644; 2783; 2943; 3556; 4320
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3768
Bsa29I	AT!CGAT	1	2619
BsaAI	YAC!GTR	3	340; 1895; 3083
BsaBI	GATNN!NNATC	3	1290; 1441; 2638
BsaHI	GR!CGYC	9	122; 175; 258; 444; 609; 811; 2779; 3481; 3560
BsaJI	C!CNNGG	24	360; 870; 880; 970; 1028; 1057; 1112; 1264; 1265; 1394; 2313; 2385; 2508; 2543; 2552; 2601; 2942; 3211; 3616; 3743; 3744; 3846; 3847; 4537
BsaMI	GAATGCN!	1	1530
BsaMI	G!CATTC	1	1623
BsaWI	W!CCGGW	5	692; 2810; 3654; 4344; 4491
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1859
BsaXI	!NNNNNNNGGAGNNNNNNGT	1	822
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	1	852
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1829

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	1780; 3687
Bsc4I	CCNNNNN!NNGG	25	49; 680; 709; 871; 1004; 1034; 1124; 1169; 1340; 1400; 1791; 2117; 2509; 2760; 3304; 3585; 3617; 3749; 3784; 3834; 3866; 4219; 4498; 4664; 4682
BscAI	GCATCNNNN!	9	741; 912; 1077; 1594; 2357; 2429; 3077; 3141; 3416
BscAI	!NNNNNNGATGC	5	360; 2740; 2995; 3211; 4603
BseI	ACTGGN!	3	2723; 2924; 4170
BseI	C!CAGT	8	295; 654; 908; 998; 1808; 2486; 4282; 4295
Bse8I	GATNN!NNATC	3	1290; 1441; 2638
Bse21I	CC!TNAGG	2	2259; 3891
Bse118I	R!CCGGY	7	692; 729; 852; 1996; 3098; 3279; 3562
BseAI	T!CCGGA	0	
BseBI	CC!WGG	20	90; 283; 872; 882; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2315; 2370; 2387; 3166; 3745; 3848; 4538; 4551; 4672
BseCI	AT!CGAT	1	2619
BseDI	C!CNNGG	24	360; 870; 880; 970; 1028; 1057; 1112; 1264; 1265; 1394; 2313; 2385; 2508; 2543; 2552; 2601; 2942; 3211; 3616; 3743; 3744; 3846; 3847; 4537
Bse3DI	GCAATGNN!	1	3012
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2639; 3096; 3121; 3575
BseGI	!CATCC	6	904; 979; 994; 1108; 1156; 2465
BseJI	GATNN!NNATC	3	1290; 1441; 2638
BseLI	CCNNNNN!NNGG	25	49; 680; 709; 871; 1004; 1034; 1124; 1169; 1340; 1400; 1791; 2117; 2509; 2760; 3304; 3585; 3617; 3749; 3784; 3834; 3866; 4219; 4498; 4664; 4682
BseMI	GCAATGNN!	1	3012
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	1326; 3905
BseMII	!NNNNNNNNNCTGAG	6	1296; 2250; 2552; 3433; 4005; 4414
BseNI	ACTGGN!	3	2723; 2924; 4170
BseNI	C!CAGT	8	295; 654; 908; 998; 1808; 2486; 4282; 4295
BsePI	G!CGCGC	1	662
BseRI	GAGGAGNNNNNNNNNN!	2	732; 2597
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	7	742; 772; 871; 1264; 2725; 2818; 4387
BseXI	GCAGCNNNNNNNN!	7	1244; 1567; 2852; 2894; 3415; 3868; 4368
BseXI	!NNNNNNNNNNNGCTGC	9	601; 847; 1371; 2061; 2726; 2910; 3003; 4069; 4275
BseX3I	C!GGCCG	2	1423; 2685
BseYI	C!CCAGC	3	2322; 2394; 4393
BseYI	G!CTGGG	1	3283
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1251
BsgI	!NNNNNNNNNNNNNCTGCAC	1	830
Bsh1236I	CG!CG	20	60; 662; 664; 793; 1030; 1348; 1428; 1703; 2079; 2099; 2123; 2154; 2845; 3146; 3584; 3668; 3731; 3800; 4073; 4654
Bsh1285I	CGRY!CG	4	697; 1426; 2688; 4363
BshFI	GG!CC	29	84; 277; 642; 775; 875; 1117; 1173; 1183; 1239; 1276; 1344; 1425; 1745; 1887; 2542; 2548; 2557; 2600; 2687; 2861; 3252; 3279; 3788; 3845; 3878; 4223; 4657; 4675; 4686
BshNI	G!GYRCC	4	465; 1932; 2778; 2813
BshTI	A!CCGGT	1	692
BshVI	AT!CGAT	1	2619
BsiEI	CGRY!CG	4	697; 1426; 2688; 4363
BsiHKAI	GWGCW!C	7	772; 934; 1311; 1363; 2892; 3082; 4387
BsiHKCI	C!YCGRG	2	927; 969
BsiSI	C!CGG	20	644; 693; 730; 853; 1997; 2684; 2761; 2783; 2811; 2942; 3032; 3099; 3280; 3555; 3563; 3655; 4129; 4319; 4345; 4492
BsiWI	C!GTACG	0	
BslI	CCNNNNN!NNGG	25	49; 680; 709; 871; 1004; 1034; 1124; 1169; 1340; 1400; 1791; 2117; 2509; 2760; 3304; 3585; 3617; 3749; 3784; 3834; 3866; 4219; 4498; 4664; 4682
BslFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2930; 3462; 3571
BslFI	!NNNNNNNNNNNNNGTCCC	4	2295; 2367; 2431; 3726
BsmI	GAATGCN!	1	1530
BsmI	G!CATTC	1	1623

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BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	4	2203; 2621; 3640; 3768
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2930; 3462; 3571
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2295; 2367; 2431; 3726
BsnI	GG!CC	29	84; 277; 642; 775; 875; 1117; 1173; 1183; 1239; 1276; 1344; 1425; 1745; 1887; 2542; 2548; 2557; 2600; 2687; 2861; 3252; 3279; 3788; 3845; 3878; 4223; 4657; 4675; 4686
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3768
BsoBI	C!YCGRG	2	927; 969
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	360; 2508; 3211
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3582
Bsp24I	!NNNNNNCCANNNNNGTC	2	4003; 4181
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	4035; 4213
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3550
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	3461
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	24	585; 670; 686; 748; 832; 1285; 1321; 1436; 2616; 2620; 2639; 2950; 3028; 3109; 3118; 3196; 3572; 3588; 3947; 3959; 4037; 4045; 4056; 4131
Bsp1286I	GDGCH!C	15	742; 772; 871; 934; 1264; 1311; 1363; 1970; 2725; 2818; 2892; 3082; 3144; 3854; 4387
Bsp1407I	T!GTACA	2	1153; 1411
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 612; 660; 920; 1028; 1067; 1160; 1205; 1334; 1346; 1426; 2094; 2097; 2111; 2201; 2449; 2461; 2470; 2482; 2492; 2503; 2549; 2688; 2751; 3253; 3298; 3364; 3390; 3515; 3518; 3666; 3798; 4105; 4249; 4745
BspACI	G!CGG	31	370; 403; 528; 623; 647; 709; 793; 1030; 1222; 1225; 1422; 2039; 2066; 2154; 2264; 2845; 2909; 3010; 3013; 3293; 3348; 3446; 3584; 3731; 3871; 4114; 4359; 4480; 4499; 4626; 4654
BspCNI	CTCAGNNNNNNNN!	2	1325; 3904
BspCNI	!NNNNNNNCTGAG	6	1297; 2251; 2553; 3434; 4006; 4415
BspDI	AT!CGAT	1	2619
BspD6I	GACTCNNNN!	5	418; 1438; 1852; 3458; 4335
BspD6I	!NNNNNGAGTC	3	1361; 1815; 2247
BspEI	T!CCGGA	0	
BspFNI	CG!CG	20	60; 662; 664; 793; 1030; 1348; 1428; 1703; 2079; 2099; 2123; 2154; 2845; 3146; 3584; 3668; 3731; 3800; 4073; 4654
BspHI	T!CATGA	2	2205; 3977
BspLI	GGN!NCC	17	467; 651; 688; 1277; 1934; 1955; 1967; 2158; 2319; 2391; 2780; 2815; 3663; 3742; 3787; 4630; 4669
BspMI	ACCTGCNNNN!	2	3047; 3497
BspMI	!NNNNNNNGCAGGT	1	2666
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	694; 2647; 2958; 3204; 3596; 3955; 4053; 4139
BspPI	!NNNNNGATCC	8	580; 665; 681; 1280; 3023; 3567; 3954; 4051
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	2	3123; 3333
BspTI	C!TTAAG	1	1661
BspT104I	TT!CGAA	1	3461
BspT107I	G!GYRCC	4	465; 1932; 2778; 2813
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3768
BsrI	ACTGGN!	3	2723; 2924; 4170
BsrI	C!CAGT	8	295; 654; 908; 998; 1808; 2486; 4282; 4295
BsrBI	CCG!CTC	2	2203; 3392
BsrBI	GAG!CGG	3	709; 2039; 3446
BsrDI	GCAATGNN!	1	3012
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	692; 729; 852; 1996; 3098; 3279; 3562
BsrGI	T!GTACA	2	1153; 1411

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	ACTGGN!	3	2723; 2924; 4170
BsrSI	C!CAGT	8	295; 654; 908; 998; 1808; 2486; 4282; 4295
BssAI	R!CCGGY	7	692; 729; 852; 1996; 3098; 3279; 3562
BssECI	C!CNNGG	24	360; 870; 880; 970; 1028; 1057; 1112; 1264; 1265; 1394; 2313; 2385; 2508; 2543; 2552; 2601; 2942; 3211; 3616; 3743; 3744; 3846; 3847; 4537
BssHII	G!CGCGC	1	662
BssKI	!CCNGG	25	88; 281; 642; 870; 880; 982; 1003; 1057; 1111; 1183; 1264; 1363; 2313; 2368; 2385; 2781; 2941; 3164; 3554; 3743; 3846; 4318; 4536; 4549; 4670
BssMI	!GATC	24	585; 670; 686; 748; 832; 1285; 1321; 1436; 2616; 2620; 2639; 2950; 3028; 3109; 3118; 3196; 3572; 3588; 3947; 3959; 4037; 4045; 4056; 4131
BssNI	GR!CGYC	9	122; 175; 258; 444; 609; 811; 2779; 3481; 3560
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3497; 4524
BssSI	C!TCGTG	1	3371
BssTII	C!CWWGG	5	360; 2508; 2601; 3211; 3616
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	3	2246; 3123; 3333
Bst98I	C!TTAAG	1	1661
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 609; 811; 2779; 3481; 3560
BstAFI	C!TTAAG	1	1661
BstAPI	GCANNNN!NTGC	4	910; 2346; 2418; 3880
BstAUI	T!GTACA	2	1153; 1411
BstBI	TT!CGAA	1	3461
Bst2BI	C!ACGAG	2	3497; 4524
Bst2BI	C!TCGTG	1	3371
BstBAI	YAC!GTR	3	340; 1895; 3083
Bst4CI	ACN!GT	13	76; 198; 269; 543; 581; 1870; 3159; 3275; 3383; 3706; 4197; 4667; 4738
BstC8I	GCN!NGC	37	86; 279; 593; 664; 731; 789; 825; 858; 920; 1230; 1237; 1346; 1382; 1998; 2041; 2055; 2328; 2347; 2400; 2419; 2673; 2859; 3078; 3144; 3150; 3182; 3223; 3227; 3281; 3564; 3751; 3798; 3854; 3876; 4087; 4647; 4684
BstDEI	C!TNAG	8	1305; 1312; 2259; 2561; 3442; 3891; 4014; 4423
BstDSI	C!CRYGG	5	360; 1028; 1394; 2508; 3211
BstEII	G!GTNACC	1	884
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2639; 3096; 3121; 3575
BstF5I	!CATCC	6	904; 979; 994; 1108; 1156; 2465
BstFNI	CG!CG	20	60; 662; 664; 793; 1030; 1348; 1428; 1703; 2079; 2099; 2123; 2154; 2845; 3146; 3584; 3668; 3731; 3800; 4073; 4654
BstH2I	RGCGC!Y	6	964; 1381; 2046; 2054; 2782; 4457
BstHHI	GCG!C	26	664; 666; 793; 963; 991; 1380; 2045; 2053; 2079; 2101; 2110; 2123; 2154; 2773; 2781; 2845; 2882; 3148; 3408; 3584; 3670; 4073; 4182; 4356; 4456; 4523
BstKTI	GAT!C	24	588; 673; 689; 751; 835; 1288; 1324; 1439; 2619; 2623; 2642; 2953; 3031; 3112; 3121; 3199; 3575; 3591; 3950; 3962; 4040; 4048; 4059; 4134
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	4	2203; 2621; 3640; 3768
BstMBI	!GATC	24	585; 670; 686; 748; 832; 1285; 1321; 1436; 2616; 2620; 2639; 2950; 3028; 3109; 3118; 3196; 3572; 3588; 3947; 3959; 4037; 4045; 4056; 4131
BstMCI	CGRY!CG	4	697; 1426; 2688; 4363
BstMWI	GCNNNNN!NNGC	36	90; 212; 244; 283; 376; 400; 617; 634; 656; 752; 793; 853; 866; 910; 1141; 1333; 1384; 2006; 2036; 2063; 2105; 2346; 2418; 2469; 2548; 2770; 2854; 2877; 3016; 3139; 3222; 3489; 3676; 3880; 4079; 4651
BstNI	CC!WGG	20	90; 283; 872; 882; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2315; 2370; 2387; 3166; 3745; 3848; 4538; 4551; 4672
BstNSI	RCATG!Y	5	599; 2349; 2421; 3184; 4701
BstOI	CC!WGG	20	90; 283; 872; 882; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2315; 2370; 2387; 3166; 3745; 3848; 4538; 4551; 4672
BstPI	G!GTNACC	1	884

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	25	88; 281; 642; 870; 880; 982; 1003; 1057; 1111; 1183; 1264; 1363; 2313; 2368; 2385; 2781; 2941; 3164; 3554; 3743; 3846; 4318; 4536; 4549; 4670
BstSFI	C!TRYAG	3	2114; 4241; 4432
BstSLI	GKGCMI!C	7	742; 772; 871; 1264; 2725; 2818; 4387
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	20	60; 662; 664; 793; 1030; 1348; 1428; 1703; 2079; 2099; 2123; 2154; 2845; 3146; 3584; 3668; 3731; 3800; 4073; 4654
Bst2UI	CC!WGG	20	90; 283; 872; 882; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2315; 2370; 2387; 3166; 3745; 3848; 4538; 4551; 4672
BstV1I	GCAGCNNNNNNNN!	7	1244; 1567; 2852; 2894; 3415; 3868; 4368
BstV1I	!NNNNNNNNNNNGCTGC	9	601; 847; 1371; 2061; 2726; 2910; 3003; 4069; 4275
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	10	585; 670; 686; 2950; 3196; 3588; 3947; 3959; 4045; 4056
BstYI	R!GATCY	10	585; 670; 686; 2950; 3196; 3588; 3947; 3959; 4045; 4056
BstZI	C!GGCCG	2	1423; 2685
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2208; 2998; 4499
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2619
Bsu36I	CC!TNAGG	2	2259; 3891
BsuRI	GG!CC	29	84; 277; 642; 775; 875; 1117; 1173; 1183; 1239; 1276; 1344; 1425; 1745; 1887; 2542; 2548; 2557; 2600; 2687; 2861; 3252; 3279; 3788; 3845; 3878; 4223; 4657; 4675; 4686
BsuTUI	AT!CGAT	1	2619
BtgI	C!CRYGG	5	360; 1028; 1394; 2508; 3211
BtgZI	GCGATGNNNNNNNNNN!	2	1896; 3231
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3050; 3394
BthCI	GCNG!C	41	614; 617; 620; 623; 650; 662; 796; 863; 1033; 1225; 1228; 1235; 1387; 1428; 1558; 2077; 2099; 2113; 2551; 2690; 2742; 2753; 2843; 2848; 2885; 2926; 3013; 3019; 3255; 3351; 3392; 3406; 3520; 3859; 3874; 4085; 4291; 4294; 4359; 4502; 4657
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	767
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1618
BtsCI	GGATGNN!	4	2639; 3096; 3121; 3575
BtsCI	!CATCC	6	904; 979; 994; 1108; 1156; 2465
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3047; 3497
BveI	!NNNNNNNNGCAGGT	1	2666
Cac8I	GCN!NGC	37	86; 279; 593; 664; 731; 789; 825; 858; 920; 1230; 1237; 1346; 1382; 1998; 2041; 2055; 2328; 2347; 2400; 2419; 2673; 2859; 3078; 3144; 3150; 3182; 3223; 3227; 3281; 3564; 3751; 3798; 3854; 3876; 4087; 4647; 4684
CaiI	CAGNNN!CTG	3	1381; 3880; 4288
CciI	T!CATGA	2	2205; 3977
CciNI	GC!GGCCGC	1	1423
CdiI	CATC!G	8	352; 737; 1073; 1217; 3068; 3073; 3271; 3412
CdiI	C!GATG	2	1882; 3217
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4651
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2440; 2482
CelII	GC!TNAGC	0	
CfoI	GCG!C	26	664; 666; 793; 963; 991; 1380; 2045; 2053; 2079; 2101; 2110; 2123; 2154; 2773; 2781; 2845; 2882; 3148; 3408; 3584; 3670; 4073; 4182; 4356; 4456; 4523
CfrI	Y!GGCCR	7	773; 1237; 1423; 2685; 2859; 3250; 3277
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	7	692; 729; 852; 1996; 3098; 3279; 3562
Cfr13I	G!GNCC	14	83; 276; 641; 874; 1115; 1275; 1331; 1343; 1886; 3295; 3740; 3786; 3844; 3877
Cfr42I	CCG!GG	1	1031

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Chai	GATC!	24	589; 674; 690; 752; 836; 1289; 1325; 1440; 2620; 2624; 2643; 2954; 3032; 3113; 3122; 3200; 3576; 3592; 3951; 3963; 4041; 4049; 4060; 4135
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	1170; 2596; 4036; 4136; 4214
CjeI	!NNNNNNNNNACNNNNNTGG	7	64; 257; 2263; 2358; 3550; 4100; 4655
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2297; 2392; 3584; 4134; 4689
CjeI	!NNNNNNNNCCANNNNNNGT	5	1136; 2562; 4002; 4102; 4180
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	2	4036; 4214
CjePI	!NNNNNNNGANNNNNTGG	3	257; 3550; 4149
CjePI	GANNNNNTGGNNNNNNNNNNNNNN!	3	290; 3583; 4182
CjePI	!NNNNNNCCANNNNNNTC	2	4003; 4181
Clai	AT!CGAT	1	2619
CpoI	CG!GWCCG	1	3295
CseI	GACGCNNNNN!	5	526; 617; 819; 3489; 3568
CseI	!NNNNNNNNNGCGTC	3	2112; 4007; 4585
CsiI	A!CCWGGT	1	2368
Cspi	CG!GWCCG	1	3295
Csp6I	G!TAC	11	218; 243; 298; 331; 382; 539; 1019; 1130; 1154; 1412; 3084
Csp45I	TT!CGAA	1	3461
CspAI	A!CCGGT	1	692
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1120; 2059; 3668
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	21	301; 361; 596; 704; 935; 965; 1355; 1400; 2206; 2346; 2418; 2509; 2650; 2995; 3181; 3212; 3238; 3594; 3978; 4698; 4749
CviJI	RG!CY	96	42; 84; 93; 277; 566; 628; 637; 642; 650; 722; 755; 775; 827; 860; 875; 976; 1076; 1117; 1124; 1135; 1144; 1173; 1183; 1191; 1235; 1239; 1276; 1344; 1409; 1425; 1448; 1558; 1725; 1745; 1887; 1968; 1982; 1996; 2277; 2318; 2390; 2513; 2542; 2548; 2557; 2565; 2588; 2600; 2606; 2687; 2704; 2712; 2739; 2764; 2848; 2857; 2861; 2885; 2923; 2999; 3016; 3035; 3098; 3142; 3152; 3169; 3252; 3279; 3283; 3320; 3343; 3359; 3539; 3566; 3627; 3749; 3788; 3845; 3852; 3859; 3878; 3889; 4140; 4169; 4212; 4223; 4288; 4367; 4392; 4397; 4443; 4533; 4631; 4657; 4675; 4686
CviKI-1	RG!CY	96	42; 84; 93; 277; 566; 628; 637; 642; 650; 722; 755; 775; 827; 860; 875; 976; 1076; 1117; 1124; 1135; 1144; 1173; 1183; 1191; 1235; 1239; 1276; 1344; 1409; 1425; 1448; 1558; 1725; 1745; 1887; 1968; 1982; 1996; 2277; 2318; 2390; 2513; 2542; 2548; 2557; 2565; 2588; 2600; 2606; 2687; 2704; 2712; 2739; 2764; 2848; 2857; 2861; 2885; 2923; 2999; 3016; 3035; 3098; 3142; 3152; 3169; 3252; 3279; 3283; 3320; 3343; 3359; 3539; 3566; 3627; 3749; 3788; 3845; 3852; 3859; 3878; 3889; 4140; 4169; 4212; 4223; 4288; 4367; 4392; 4397; 4443; 4533; 4631; 4657; 4675; 4686
CviQI	G!TAC	11	218; 243; 298; 331; 382; 539; 1019; 1130; 1154; 1412; 3084
DdeI	C!TNAG	8	1305; 1312; 2259; 2561; 3442; 3891; 4014; 4423
DinI	GGC!GCC	1	2780
DpnI	GA!TC	24	587; 672; 688; 750; 834; 1287; 1323; 1438; 2618; 2622; 2641; 2952; 3030; 3111; 3120; 3198; 3574; 3590; 3949; 3961; 4039; 4047; 4058; 4133
DpnII	!GATC	24	585; 670; 686; 748; 832; 1285; 1321; 1436; 2616; 2620; 2639; 2950; 3028; 3109; 3118; 3196; 3572; 3588; 3947; 3959; 4037; 4045; 4056; 4131
DraI	TTT!AAA	3	1481; 3923; 3942
DraII	RG!GNCCY	1	3877
DraIII	CACNN!GTG	3	1151; 1358; 1895
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	5	266; 1042; 1111; 1354; 4259
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1850; 2806; 4595
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1850; 2806; 4595
EaeI	Y!GGCCR	7	773; 1237; 1423; 2685; 2859; 3250; 3277

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EagI	C!GGCCG	2	1423; 2685
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2246; 3123; 3333
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	3	2246; 3123; 3333
EciI	GGCGGANNNNNNNNNN!	4	2279; 3308; 4495; 4641
EciI	!NNNNNNNNNTCCGCC	5	496; 1149; 2450; 2471; 2492
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	2	1423; 2685
Eco24I	GRGCY!C	3	1970; 3144; 3854
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	1	3768
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	1331; 3295; 3740
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	2	1423; 2685
Eco57I	CTGAAGNNNNNNNNNNNNNN!	3	1098; 2925; 3357
Eco57I	!NNNNNNNNNNNNNCTTCAG	2	1358; 4155
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	2	2259; 3891
Eco88I	C!YCGRG	2	927; 969
Eco91I	G!GTNACC	1	884
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	5	360; 2508; 2601; 3211; 3616
Eco147I	AGG!CCT	1	2600
EcoHI	!CCSGG	5	642; 2781; 2941; 3554; 4318
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	8	849; 1098; 1146; 1206; 1386; 2925; 3357; 3619
Eco57MI	!NNNNNNNNNNNNNCTYCAG	3	1358; 3562; 4155
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	1	884
Eco0109I	RG!GNCCY	1	3877
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	20	88; 281; 870; 880; 982; 1003; 1057; 1111; 1183; 1264; 1363; 2313; 2368; 2385; 3164; 3743; 3846; 4536; 4549; 4670
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	360; 2508; 2601; 3211; 3616
EcoT22I	ATGCA!T	3	2351; 2423; 4754
EcoT38I	GRGCY!C	3	1970; 3144; 3854
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	1	2780
EheI	GGC!GCC	1	2780
ErhI	C!CWWGG	5	360; 2508; 2601; 3211; 3616
EsaBC3I	TC!GA	15	752; 1046; 1073; 1217; 1929; 2620; 2893; 3049; 3073; 3109; 3271; 3462; 3507; 3762; 4600
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNGAGACC	0	
FaeI	CATG!	21	304; 364; 599; 707; 938; 968; 1358; 1403; 2209; 2349; 2421; 2512; 2653; 2998; 3184; 3215; 3241; 3597; 3981; 4701; 4752
Fail	YA!TR	57	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 597; 705; 936; 966; 1356; 1401; 1441; 1451; 1517; 1562; 1767; 2195; 2207; 2338; 2347; 2410; 2419; 2443; 2510; 2534; 2651; 2715; 2996; 3021; 3182; 3213; 3239; 3311; 3527; 3595; 3673; 3725; 3886; 3903; 3905; 3907; 3979; 4257; 4446; 4562; 4635; 4699; 4750
FalI	AAGNNNNCTTNNNNNNNNNN!	1	3119
FalI	!NNNNNNNAAGNNNNCTT	1	3087
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2930; 3462; 3571
FaqI	!NNNNNNNNNNNNNGTCCC	4	2295; 2367; 2431; 3726
FatI	!CATG	21	300; 360; 595; 703; 934; 964; 1354; 1399; 2205; 2345; 2417; 2508; 2649; 2994; 3180; 3211; 3237; 3593; 3977; 4697; 4748
FauI	CCCGCNNNN!	12	93; 119; 286; 927; 1035; 1212; 1353; 2101; 2456; 2477; 3673; 3805
FauI	!NNNNNGCGGG	7	616; 702; 2032; 2902; 3439; 3577; 3724
FauNDI	CA!TATG	1	234

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FbaI	T!GATCA	0	
FblI	GT!MKAC	0	
FmuI	GGNC!C	14	86; 279; 644; 877; 1118; 1278; 1334; 1346; 1889; 3298; 3743; 3789; 3847; 3880
Fnu4HI	GC!NGC	41	612; 615; 618; 621; 648; 660; 794; 861; 1031; 1223; 1226; 1233; 1385; 1426; 1556; 2075; 2097; 2111; 2549; 2688; 2740; 2751; 2841; 2846; 2883; 2924; 3011; 3017; 3253; 3349; 3390; 3404; 3518; 3857; 3872; 4083; 4289; 4292; 4357; 4500; 4655
FokI	GGATGNNNNNNNNN!	4	2646; 3103; 3128; 3582
FokI	!NNNNNNNNNNNNNNCATCC	5	891; 966; 1095; 1143; 2452
FriOI	GRGCY!C	3	1970; 3144; 3854
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2881
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1434; 1628; 2046; 2602; 3617; 3951; 4204
FspEI	CCNNNNNNNNNNNN!	159	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 656; 673; 687; 703; 743; 789; 827; 863; 877; 893; 921; 939; 977; 996; 1011; 1040; 1070; 1125; 1158; 1173; 1187; 1217; 1253; 1268; 1290; 1304; 1331; 1347; 1365; 1385; 1401; 1439; 1462; 1501; 1515; 1656; 1751; 1775; 1798; 1821; 1839; 1861; 1882; 1901; 1920; 1949; 1970; 1984; 2010; 2098; 2124; 2173; 2214; 2232; 2271; 2287; 2325; 2382; 2397; 2454; 2474; 2488; 2505; 2519; 2556; 2571; 2614; 2697; 2764; 2795; 2815; 2830; 2875; 2889; 2955; 2969; 2988; 3004; 3045; 3065; 3112; 3162; 3178; 3198; 3223; 3243; 3266; 3293; 3311; 3337; 3377; 3403; 3427; 3483; 3497; 3525; 3568; 3589; 3624; 3668; 3756; 3780; 3802; 3822; 3838; 3859; 3873; 3892; 3976; 3996; 4024; 4039; 4073; 4115; 4142; 4157; 4202; 4226; 4240; 4262; 4288; 4308; 4332; 4358; 4406; 4425; 4444; 4470; 4505; 4550; 4580; 4594; 4645; 4659; 4684; 4700; 4721; 4750
FspEI	!NNNNNNNNNNNNNNNGG	130	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 608; 629; 666; 694; 715; 741; 778; 805; 838; 857; 886; 957; 990; 1015; 1033; 1065; 1083; 1110; 1155; 1173; 1203; 1221; 1251; 1314; 1341; 1381; 1400; 1450; 1550; 1619; 1649; 1727; 1776; 1798; 1826; 1862; 1907; 1936; 1972; 1991; 2019; 2039; 2102; 2125; 2233; 2265; 2283; 2312; 2355; 2384; 2495; 2524; 2567; 2588; 2616; 2649; 2669; 2694; 2721; 2746; 2768; 2796; 2822; 2843; 2894; 2915; 2933; 2981; 3017; 3073; 3098; 3122; 3151; 3174; 3198; 3224; 3246; 3265; 3290; 3330; 3366; 3431; 3516; 3540; 3569; 3603; 3624; 3644; 3689; 3716; 3735; 3768; 3820; 3851; 3878; 3930; 4028; 4099; 4144; 4205; 4270; 4304; 4330; 4348; 4384; 4454; 4477; 4499; 4523; 4556; 4604; 4639; 4657; 4714
Fsp4HI	GC!NGC	41	612; 615; 618; 621; 648; 660; 794; 861; 1031; 1223; 1226; 1233; 1385; 1426; 1556; 2075; 2097; 2111; 2549; 2688; 2740; 2751; 2841; 2846; 2883; 2924; 3011; 3017; 3253; 3349; 3390; 3404; 3518; 3857; 3872; 4083; 4289; 4292; 4357; 4500; 4655
GdiII	C!GGCCR	3	773; 1423; 2685
GdiII	Y!GGCCG	5	1237; 1423; 2685; 3250; 3277
GlaI	GC!GC	26	663; 665; 792; 962; 990; 1379; 2044; 2052; 2078; 2100; 2109; 2122; 2153; 2772; 2780; 2844; 2881; 3147; 3407; 3583; 3669; 4072; 4181; 4355; 4455; 4522
Glul	GC!NGC	41	612; 615; 618; 621; 648; 660; 794; 861; 1031; 1223; 1226; 1233; 1385; 1426; 1556; 2075; 2097; 2111; 2549; 2688; 2740; 2751; 2841; 2846; 2883; 2924; 3011; 3017; 3253; 3349; 3390; 3404; 3518; 3857; 3872; 4083; 4289; 4292; 4357; 4500; 4655
GsaI	CCCAG!C	3	2326; 2398; 4397
GsaI	GCTGG!G	1	3287
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	5	849; 1146; 1206; 1386; 3619
GsuI	!NNNNNNNNNNNNNNNCTCCAG	1	3562
HaeI	WGG!CCW	6	1173; 2600; 2861; 4223; 4675; 4686
HaeII	RGCGC!Y	6	964; 1381; 2046; 2054; 2782; 4457
HaeIII	GG!CC	29	84; 277; 642; 775; 875; 1117; 1173; 1183; 1239; 1276; 1344; 1425; 1745; 1887; 2542; 2548; 2557; 2600; 2687; 2861; 3252; 3279; 3788; 3845; 3878; 4223; 4657; 4675; 4686
HaeIV	GAYNNNNNNRTCNNNNNNNNNNNNNN!	2	1454; 2975
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1420; 2941
HaeIV	GAYNNNNNNRTCNNNNNNNNNNNNNN!	2	1453; 2974
HaeIV	!NNNNNNNGAYNNNNNNRTC	2	1422; 2943

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HapII	C!CGG	20	644; 693; 730; 853; 1997; 2684; 2761; 2783; 2811; 2942; 3032; 3099; 3280; 3555; 3563; 3655; 4129; 4319; 4345; 4492
HgaI	GACGCNNNNN!	5	526; 617; 819; 3489; 3568
HgaI	!NNNNNNNNNNNGCGTC	3	2112; 4007; 4585
HhaI	GCG!C	26	664; 666; 793; 963; 991; 1380; 2045; 2053; 2079; 2101; 2110; 2123; 2154; 2773; 2781; 2845; 2882; 3148; 3408; 3584; 3670; 4073; 4182; 4356; 4456; 4523
Hin1I	GR!CGYC	9	122; 175; 258; 444; 609; 811; 2779; 3481; 3560
Hin1II	CATG!	21	304; 364; 599; 707; 938; 968; 1358; 1403; 2209; 2349; 2421; 2512; 2653; 2998; 3184; 3215; 3241; 3597; 3981; 4701; 4752
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1453; 2974
Hin4I	!NNNNNNNNGABNNNNNNRTC	3	1421; 2942; 2972
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1453; 2974; 3004
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	1421; 2942
Hin6I	G!CGC	26	662; 664; 791; 961; 989; 1378; 2043; 2051; 2077; 2099; 2108; 2121; 2152; 2771; 2779; 2843; 2880; 3146; 3406; 3582; 3668; 4071; 4180; 4354; 4454; 4521
HinPII	G!CGC	26	662; 664; 791; 961; 989; 1378; 2043; 2051; 2077; 2099; 2108; 2121; 2152; 2771; 2779; 2843; 2880; 3146; 3406; 3582; 3668; 4071; 4180; 4354; 4454; 4521
HincII	GTY!RAC	1	1542
HindII	GTY!RAC	1	1542
HindIII	A!AGCTT	0	
HinfI	G!ANTC	13	410; 1368; 1430; 1822; 1844; 2254; 3264; 3398; 3450; 3508; 3545; 4327; 4723
HpaI	GTT!AAC	1	1542
HpaII	C!CGG	20	644; 693; 730; 853; 1997; 2684; 2761; 2783; 2811; 2942; 3032; 3099; 3280; 3555; 3563; 3655; 4129; 4319; 4345; 4492
HphI	GGTGANNNNNNN!	6	376; 896; 1049; 1073; 3850; 3966
HphI	!NNNNNNNTCACC	2	1896; 2957
Hpy8I	GTN!NAC	11	201; 539; 577; 770; 1064; 1154; 1542; 1826; 1843; 1898; 4385
Hpy99I	CGWCG!	11	768; 813; 1014; 1275; 2869; 2897; 3191; 3206; 3483; 3868; 4601
Hpy166II	GTN!NAC	11	201; 539; 577; 770; 1064; 1154; 1542; 1826; 1843; 1898; 4385
Hpy188I	TCN!GA	12	585; 1315; 1953; 2562; 2746; 3090; 3443; 3544; 4023; 4157; 4510; 4588
Hpy188III	TC!NNGA	23	605; 956; 1199; 1434; 2206; 2258; 2571; 2624; 2797; 3113; 3122; 3205; 3261; 3305; 3395; 3428; 3497; 3978; 4052; 4135; 4233; 4331; 4465
HpyAV	CCTTCNNNNN!	4	1382; 3424; 3531; 4210
HpyAV	!NNNNNGAAGG	8	1073; 2012; 2907; 3636; 3652; 3835; 4152; 4462
HpyCH4III	ACN!GT	13	76; 198; 269; 543; 581; 1870; 3159; 3275; 3383; 3706; 4197; 4667; 4738
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 766; 1150; 1258; 1839; 1851; 1894; 2004; 2895; 3082; 3863; 3996
HpyCH4V	TG!CA	19	770; 847; 1232; 1528; 1555; 1623; 2340; 2349; 2412; 2421; 2536; 2612; 2671; 2830; 3005; 3019; 4089; 4385; 4752
HpyF3I	C!TNAG	8	1305; 1312; 2259; 2561; 3442; 3891; 4014; 4423
HpyF10VI	GCNNNNN!NNGC	36	90; 212; 244; 283; 376; 400; 617; 634; 656; 752; 793; 853; 866; 910; 1141; 1333; 1384; 2006; 2036; 2063; 2105; 2346; 2418; 2469; 2548; 2770; 2854; 2877; 3016; 3139; 3222; 3489; 3676; 3880; 4079; 4651
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 609; 811; 2779; 3481; 3560
Hsp92II	CATG!	21	304; 364; 599; 707; 938; 968; 1358; 1403; 2209; 2349; 2421; 2512; 2653; 2998; 3184; 3215; 3241; 3597; 3981; 4701; 4752
HspAI	G!CGC	26	662; 664; 791; 961; 989; 1378; 2043; 2051; 2077; 2099; 2108; 2121; 2152; 2771; 2779; 2843; 2880; 3146; 3406; 3582; 3668; 4071; 4180; 4354; 4454; 4521
KasI	G!GCGCC	1	2778
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	1031
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1542
Kzo9I	!GATC	24	585; 670; 686; 748; 832; 1285; 1321; 1436; 2616; 2620; 2639; 2950; 3028; 3109; 3118; 3196; 3572; 3588; 3947; 3959; 4037; 4045; 4056; 4131

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3123; 3333
LpnI	RGC!GCGY	6	962; 1379; 2044; 2052; 2780; 4455
LpnPI	CCDGNNNNNNNNNN!	63	102; 295; 618; 657; 706; 743; 866; 884; 921; 996; 1011; 1071; 1125; 1197; 1263; 1278; 1317; 1377; 1394; 1516; 1821; 2010; 2233; 2271; 2287; 2327; 2382; 2399; 2499; 2584; 2697; 2774; 2796; 2819; 2955; 2969; 2988; 3045; 3112; 3162; 3178; 3235; 3293; 3502; 3568; 3592; 3668; 3757; 3860; 3893; 4124; 4142; 4288; 4308; 4332; 4358; 4407; 4505; 4550; 4580; 4659; 4684; 4721
LpnPI	!NNNNNNNNNNNNNNCHGG	60	75; 268; 552; 619; 678; 715; 741; 813; 838; 857; 969; 990; 1044; 1098; 1170; 1221; 1251; 1350; 1400; 1862; 1982; 2039; 2102; 2300; 2312; 2372; 2384; 2616; 2661; 2704; 2746; 2768; 2796; 2843; 2905; 2927; 3017; 3084; 3107; 3151; 3246; 3265; 3290; 3439; 3540; 3583; 3640; 3730; 3833; 3860; 3878; 4114; 4151; 4304; 4330; 4470; 4488; 4523; 4604; 4657
Lsp1109I	GCAGCNNNNNNN!	7	1244; 1567; 2852; 2894; 3415; 3868; 4368
Lsp1109I	!NNNNNNNNNNNGCTGC	9	601; 847; 1371; 2061; 2726; 2910; 3003; 4069; 4275
LweI	GCATCNNNNN!	9	742; 913; 1078; 1595; 2358; 2430; 3078; 3142; 3417
LweI	!NNNNNNNNNGATGC	5	357; 2737; 2992; 3208; 4600
MabI	A!CCWGGT	1	2368
MaeI	C!TAG	8	592; 1434; 1628; 2046; 2602; 3617; 3951; 4204
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 766; 1150; 1258; 1839; 1851; 1894; 2004; 2895; 3082; 3863; 3996
MaeIII	!GTNAC	13	61; 148; 497; 884; 1567; 2068; 2080; 2899; 3205; 3895; 4161; 4277; 4340
MaI	GA!TC	24	587; 672; 688; 750; 834; 1287; 1323; 1438; 2618; 2622; 2641; 2952; 3030; 3111; 3120; 3198; 3574; 3590; 3949; 3961; 4039; 4047; 4058; 4133
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2203; 3392
MbiI	GAG!CGG	3	709; 2039; 3446
MboI	!GATC	24	585; 670; 686; 748; 832; 1285; 1321; 1436; 2616; 2620; 2639; 2950; 3028; 3109; 3118; 3196; 3572; 3588; 3947; 3959; 4037; 4045; 4056; 4131
MboII	GAAGANNNNNNNNN!	6	950; 2035; 2263; 3140; 3350; 3969
MboII	!NNNNNNNTCTTC	5	944; 3430; 3597; 3797; 4040
McaTI	GCG!GC	1	665
MfeI	C!AATTG	1	1529
MflI	R!GATCY	10	585; 670; 686; 2950; 3196; 3588; 3947; 3959; 4045; 4056
MhII	GDGCH!C	15	742; 772; 871; 934; 1264; 1311; 1363; 1970; 2725; 2818; 2892; 3082; 3144; 3854; 4387
MIsI	TGG!CCA	1	2861
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2861
MlyI	GAGTCNNNNN!	3	1377; 1831; 2263
MlyI	!NNNNNGACTC	5	404; 1424; 1838; 3444; 4321
Mly113I	GG!CGCC	1	2779
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNN!	1	1872
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	4304; 4488
MnII	CCTCNNNNNNN!	8	903; 1498; 2562; 3380; 3586; 3900; 4270; 4594
MnII	!NNNNNGAGG	22	541; 710; 791; 965; 1028; 1040; 1091; 1181; 1211; 1334; 1458; 1923; 2254; 2532; 2575; 2590; 2630; 2694; 2830; 3187; 3617; 4520
Mph1103I	ATGCA!T	3	2351; 2423; 4754
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	729; 1996; 3279; 3562
MroXI	GAANN!NNTTC	1	948
MscI	TGG!CCA	1	2861
MseI	T!TAA	15	7; 1480; 1541; 1662; 1683; 1694; 1706; 1717; 1734; 1832; 2103; 3922; 3936; 3941; 3993
MslI	CAYNN!NNRTG	5	365; 882; 939; 1059; 3216
MspI	C!CGG	20	644; 693; 730; 853; 1997; 2684; 2761; 2783; 2811; 2942; 3032; 3099; 3280; 3555; 3563; 3655; 4129; 4319; 4345; 4492

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Msp20I	TGG!CCA	1	2861
MspA1I	CMG!CKG	7	614; 1030; 1235; 2277; 2885; 4114; 4359
MspCI	C!TTAAG	1	1661
MspJI	CNNRNNNNNNNNN!	242	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 617; 636; 650; 665; 679; 705; 722; 742; 755; 768; 783; 800; 815; 836; 865; 878; 893; 920; 939; 968; 981; 995; 1010; 1028; 1041; 1058; 1071; 1085; 1106; 1124; 1137; 1158; 1176; 1196; 1211; 1229; 1248; 1262; 1277; 1290; 1316; 1330; 1347; 1365; 1393; 1407; 1427; 1446; 1462; 1486; 1503; 1516; 1557; 1571; 1584; 1602; 1640; 1655; 1673; 1714; 1738; 1758; 1776; 1797; 1820; 1852; 1867; 1889; 1907; 1920; 1941; 1958; 1971; 1984; 2000; 2013; 2043; 2058; 2083; 2101; 2114; 2129; 2153; 2167; 2191; 2216; 2232; 2270; 2286; 2325; 2339; 2353; 2381; 2397; 2411; 2425; 2454; 2467; 2488; 2497; 2519; 2549; 2565; 2583; 2613; 2636; 2660; 2684; 2703; 2731; 2757; 2773; 2786; 2809; 2823; 2843; 2856; 2870; 2889; 2903; 2916; 2932; 2947; 2960; 2976; 2991; 3007; 3032; 3051; 3067; 3080; 3093; 3111; 3125; 3139; 3155; 3177; 3193; 3212; 3234; 3250; 3273; 3292; 3306; 3322; 3336; 3356; 3372; 3385; 3407; 3440; 3454; 3474; 3487; 3501; 3555; 3568; 3591; 3604; 3623; 3640; 3667; 3703; 3736; 3755; 3780; 3801; 3828; 3841; 3858; 3872; 3887; 3903; 3963; 3988; 4004; 4026; 4039; 4053; 4084; 4098; 4123; 4141; 4156; 4169; 4188; 4201; 4216; 4245; 4264; 4282; 4307; 4322; 4341; 4357; 4376; 4394; 4410; 4424; 4443; 4470; 4493; 4515; 4534; 4549; 4562; 4579; 4599; 4626; 4639; 4658; 4683; 4706; 4720; 4733; 4750
MspJI	!NNNNNNNNNNNNYNG	203	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 591; 608; 625; 647; 667; 690; 712; 729; 753; 770; 789; 810; 830; 850; 867; 886; 905; 942; 969; 990; 1008; 1030; 1059; 1080; 1098; 1137; 1155; 1185; 1203; 1222; 1245; 1264; 1290; 1310; 1331; 1350; 1367; 1386; 1405; 1431; 1460; 1489; 1531; 1614; 1649; 1676; 1699; 1728; 1772; 1794; 1826; 1862; 1879; 1900; 1937; 1957; 1974; 1991; 2026; 2044; 2062; 2079; 2103; 2125; 2152; 2180; 2206; 2244; 2265; 2282; 2300; 2323; 2344; 2372; 2395; 2416; 2434; 2455; 2472; 2495; 2519; 2539; 2557; 2579; 2610; 2632; 2658; 2677; 2694; 2722; 2741; 2760; 2778; 2796; 2817; 2839; 2863; 2896; 2916; 2934; 2955; 2981; 3008; 3025; 3042; 3059; 3085; 3107; 3129; 3147; 3167; 3186; 3208; 3246; 3266; 3290; 3310; 3330; 3357; 3381; 3414; 3433; 3461; 3483; 3512; 3540; 3565; 3584; 3603; 3624; 3641; 3658; 3689; 3716; 3736; 3759; 3779; 3816; 3833; 3852; 3878; 3898; 3937; 3964; 3983; 4001; 4038; 4056; 4097; 4115; 4141; 4158; 4190; 4219; 4247; 4268; 4291; 4310; 4331; 4349; 4366; 4384; 4410; 4431; 4451; 4471; 4489; 4510; 4536; 4553; 4572; 4591; 4620; 4639; 4657; 4676; 4694; 4712; 4735
MspR9I	CC!NGG	25	90; 283; 644; 872; 882; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2315; 2370; 2387; 2783; 2943; 3166; 3556; 3745; 3848; 4320; 4538; 4551; 4672
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1529
MvaI	CC!WGG	20	90; 283; 872; 882; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2315; 2370; 2387; 3166; 3745; 3848; 4538; 4551; 4672
Mva1269I	GAATGCN!	1	1530
Mva1269I	G!CATTC	1	1623
MvnI	CG!CG	20	60; 662; 664; 793; 1030; 1348; 1428; 1703; 2079; 2099; 2123; 2154; 2845; 3146; 3584; 3668; 3731; 3800; 4073; 4654
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	36	90; 212; 244; 283; 376; 400; 617; 634; 656; 752; 793; 853; 866; 910; 1141; 1333; 1384; 2006; 2036; 2063; 2105; 2346; 2418; 2469; 2548; 2770; 2854; 2877; 3016; 3139; 3222; 3489; 3676; 3880; 4079; 4651
NaeI	GCC!GGC	4	731; 1998; 3281; 3564
NarI	GG!CGCC	1	2779
NciI	CC!SGG	5	644; 2783; 2943; 3556; 4320
NcoI	C!CATGG	3	360; 2508; 3211
NdeI	CA!TATG	1	234
NdeII	!GATC	24	585; 670; 686; 748; 832; 1285; 1321; 1436; 2616; 2620; 2639; 2950; 3028; 3109; 3118; 3196; 3572; 3588; 3947; 3959; 4037; 4045; 4056; 4131

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NgoAVIII	GACNNNNNTGANNNNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	729; 1996; 3279; 3562
NheI	G!CTAGC	1	591
NlaIII	CATG!	21	304; 364; 599; 707; 938; 968; 1358; 1403; 2209; 2349; 2421; 2512; 2653; 2998; 3184; 3215; 3241; 3597; 3981; 4701; 4752
NlaIV	GGN!NCC	17	467; 651; 688; 1277; 1934; 1955; 1967; 2158; 2319; 2391; 2780; 2815; 3663; 3742; 3787; 4630; 4669
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1611; 1926; 3518
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 4590
Nli3877I	CYCGR!G	2	931; 973
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2568; 3004
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	618; 2533
NmeDI	RCCGGYNNNNNNN!	7	704; 741; 864; 2008; 3110; 3291; 3574
NmeDI	!NNNNNNNNNNNNRCCGGY	7	679; 716; 839; 1983; 3085; 3266; 3549
NmuCI	!GTSAC	4	884; 2068; 2899; 3205
NotI	GC!GGCCGC	1	1423
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2881
NsiI	ATGCA!T	3	2351; 2423; 4754
NspI	RCATG!Y	5	599; 2349; 2421; 3184; 4701
NspV	TT!CGAA	1	3461
OliI	CACNN!NNGTG	2	882; 1059
PabI	GTA!C	11	220; 245; 300; 333; 384; 541; 1021; 1132; 1156; 1414; 3086
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2349; 2421; 3184
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	2	2205; 3977
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1265; 3744; 3847
PauI	G!CGCGC	1	662
PceI	AGG!CCT	1	2600
PciI	A!CATGT	1	4697
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3123; 3333
PcsI	WCGNNNN!NNNCGW	9	733; 1345; 1402; 3073; 3150; 3393; 3467; 3860; 4378
PctI	GAATGCN!	1	1530
PctI	G!CATTC	1	1623
PdiI	GCC!GGC	4	731; 1998; 3281; 3564
PdmI	GAANN!NNTTC	1	948
PfeI	G!AWTC	5	3264; 3398; 3508; 3545; 4723
Pfi23II	C!GTACG	0	
Pfifi	GACN!NNGTC	1	2897
Pfimi	CCANNNN!NTGG	3	680; 1124; 1400
PfoI	T!CCNGGA	4	982; 1003; 1363; 3554
PhoI	GG!CC	29	84; 277; 642; 775; 875; 1117; 1173; 1183; 1239; 1276; 1344; 1425; 1745; 1887; 2542; 2548; 2557; 2600; 2687; 2861; 3252; 3279; 3788; 3845; 3878; 4223; 4657; 4675; 4686
PinAI	A!CCGGT	1	692
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3160
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2725; 2980
PleI	GAGTCNNNN!	3	1376; 1830; 2262
PleI	!NNNNNGACTC	5	404; 1424; 1838; 3444; 4321
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1861
PpiI	!NNNNNNNNNGAGNNNNNGTTC	4	708; 822; 1026; 3991
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	4	740; 854; 1058; 4023
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1829
PpsI	GAGTCNNNN!	3	1376; 1830; 2262
PpsI	!NNNNNGACTC	5	404; 1424; 1838; 3444; 4321

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Ppu10I	A!TGCAT	3	2347; 2419; 4750
Ppu21I	YAC!GTR	3	340; 1895; 3083
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4697
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1562; 1767
Psp03I	GGWC!C	3	1334; 3298; 3743
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	20	88; 281; 870; 880; 982; 1003; 1057; 1111; 1183; 1264; 1363; 2313; 2368; 2385; 3164; 3743; 3846; 4536; 4549; 4670
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	1	884
PspGI	!CCWGG	20	88; 281; 870; 880; 982; 1003; 1057; 1111; 1183; 1264; 1363; 2313; 2368; 2385; 3164; 3743; 3846; 4536; 4549; 4670
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	17	467; 651; 688; 1277; 1934; 1955; 1967; 2158; 2319; 2391; 2780; 2815; 3663; 3742; 3787; 4630; 4669
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 2509; 3508
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	2	1247; 2911
PspPI	G!GNCC	14	83; 276; 641; 874; 1115; 1275; 1331; 1343; 1886; 3295; 3740; 3786; 3844; 3877
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	2332; 2404; 3910
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	2245; 3440
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNNGTTC	0	
PsrI	GTANNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3880
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	3	1381; 3880; 4288
PsuI	R!GATCY	10	585; 670; 686; 2950; 3196; 3588; 3947; 3959; 4045; 4056
PsyI	GACN!NNGTC	1	2897
PteI	G!CGCGC	1	662
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1235; 2277; 2885
RcaI	T!CATGA	2	2205; 3977
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3294
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	1508
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	1	602
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	11	219; 244; 299; 332; 383; 540; 1020; 1131; 1155; 1413; 3085
RsaNI	G!TAC	11	218; 243; 298; 331; 382; 539; 1019; 1130; 1154; 1412; 3084
RseI	CAYNN!NNRTG	5	365; 882; 939; 1059; 3216
RsrII	CG!GWCCG	1	3295
Rsr2I	CG!GWCCG	1	3295
SacI	GAGCT!C	0	
SacII	CCGC!GG	1	1031
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	3123; 3333
SaqAI	T!TAA	15	7; 1480; 1541; 1662; 1683; 1694; 1706; 1717; 1734; 1832; 2103; 3922; 3936; 3941; 3993

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SatI	GC!NGC	41	612; 615; 618; 621; 648; 660; 794; 861; 1031; 1223; 1226; 1233; 1385; 1426; 1556; 2075; 2097; 2111; 2549; 2688; 2740; 2751; 2841; 2846; 2883; 2924; 3011; 3017; 3253; 3349; 3390; 3404; 3518; 3857; 3872; 4083; 4289; 4292; 4357; 4500; 4655
Sau96I	G!GNCC	14	83; 276; 641; 874; 1115; 1275; 1331; 1343; 1886; 3295; 3740; 3786; 3844; 3877
Sau3AI	!GATC	24	585; 670; 686; 748; 832; 1285; 1321; 1436; 2616; 2620; 2639; 2950; 3028; 3109; 3118; 3196; 3572; 3588; 3947; 3959; 4037; 4045; 4056; 4131
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	1377; 1831; 2263
SchI	!NNNNNGACTC	5	404; 1424; 1838; 3444; 4321
SciI	CTC!GAG	0	
ScrFI	CC!NGG	25	90; 283; 644; 872; 882; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2315; 2370; 2387; 2783; 2943; 3166; 3556; 3745; 3848; 4320; 4538; 4551; 4672
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	5	1010; 2357; 2429; 2598; 4540
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	1342; 2934; 3419
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	15	742; 772; 871; 934; 1264; 1311; 1363; 1970; 2725; 2818; 2892; 3082; 3144; 3854; 4387
SelI	!CGCG	20	58; 660; 662; 791; 1028; 1346; 1426; 1701; 2077; 2097; 2121; 2152; 2843; 3144; 3582; 3666; 3729; 3798; 4071; 4652
SetI	ASST!	64	125; 137; 178; 261; 308; 342; 447; 552; 568; 724; 757; 769; 829; 862; 1039; 1078; 1126; 1137; 1153; 1237; 1261; 1306; 1411; 1419; 1469; 1490; 1499; 1511; 1560; 1727; 1842; 1854; 1897; 1934; 1984; 2007; 2131; 2279; 2374; 2567; 2680; 2808; 2887; 2898; 2970; 3041; 3085; 3345; 3491; 3535; 3866; 3897; 3956; 3999; 4142; 4163; 4262; 4399; 4414; 4433; 4445; 4489; 4535; 4586
SexAI	A!CCWGGT	1	2368
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	9	742; 913; 1078; 1595; 2358; 2430; 3078; 3142; 3417
SfaNI	!NNNNNNNNNGATGC	5	357; 2737; 2992; 3208; 4600
SfcI	C!TRYAG	3	2114; 4241; 4432
SfiI	GGCCNNNN!NGGCC	1	2554
SfoI	GGC!GCC	1	2780
Sfr274I	C!TCGAG	0	
Sfr303I	CCGC!GG	1	1031
SfuI	TT!CGAA	1	3461
SgeI	CNNGNNNNNNNNN!	199	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 617; 636; 650; 666; 680; 705; 722; 742; 755; 768; 783; 800; 815; 836; 865; 878; 893; 920; 939; 968; 981; 995; 1010; 1028; 1041; 1058; 1071; 1085; 1106; 1124; 1137; 1163; 1176; 1196; 1211; 1229; 1248; 1262; 1277; 1290; 1316; 1331; 1352; 1367; 1393; 1407; 1427; 1446; 1486; 1515; 1557; 1640; 1714; 1798; 1820; 1852; 1889; 1907; 1926; 1941; 1983; 2000; 2017; 2052; 2066; 2083; 2105; 2129; 2153; 2218; 2232; 2270; 2286; 2326; 2339; 2358; 2381; 2398; 2411; 2430; 2460; 2481; 2498; 2521; 2556; 2583; 2614; 2636; 2662; 2684; 2703; 2731; 2767; 2786; 2809; 2823; 2843; 2856; 2870; 2889; 2903; 2922; 2954; 2968; 2981; 3007; 3038; 3051; 3068; 3085; 3099; 3116; 3134; 3149; 3177; 3193; 3212; 3234; 3250; 3273; 3292; 3317; 3336; 3356; 3383; 3407; 3440; 3459; 3487; 3501; 3567; 3591; 3606; 3629; 3650; 3667; 3715; 3742; 3756; 3785; 3809; 3842; 3859; 3879; 3892; 3905; 3963; 3990; 4009; 4039; 4064; 4084; 4098; 4123; 4141; 4178; 4216; 4245; 4273; 4287; 4307; 4322; 4343; 4357; 4376; 4394; 4410; 4450; 4470; 4497; 4515; 4536; 4549; 4562; 4579; 4603; 4626; 4658; 4683; 4710; 4732

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	169	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 610; 629; 647; 679; 696; 716; 738; 757; 774; 810; 839; 857; 894; 913; 942; 969; 990; 1008; 1032; 1059; 1080; 1098; 1137; 1155; 1185; 1203; 1222; 1245; 1264; 1290; 1314; 1331; 1350; 1367; 1386; 1413; 1460; 1489; 1531; 1614; 1688; 1772; 1794; 1826; 1863; 1881; 1900; 1957; 1974; 1991; 2026; 2044; 2064; 2084; 2103; 2127; 2192; 2244; 2300; 2332; 2355; 2372; 2404; 2434; 2455; 2472; 2495; 2530; 2557; 2588; 2610; 2636; 2658; 2677; 2705; 2741; 2760; 2783; 2804; 2822; 2839; 2863; 2896; 2928; 2955; 2981; 3012; 3042; 3059; 3085; 3108; 3129; 3151; 3171; 3191; 3208; 3247; 3266; 3291; 3310; 3330; 3357; 3381; 3414; 3433; 3461; 3483; 3541; 3565; 3584; 3603; 3624; 3641; 3689; 3716; 3736; 3759; 3783; 3816; 3833; 3853; 3879; 3937; 3964; 3983; 4013; 4038; 4058; 4097; 4115; 4152; 4190; 4219; 4247; 4268; 4296; 4317; 4350; 4368; 4424; 4444; 4471; 4489; 4510; 4536; 4553; 4577; 4600; 4632; 4657; 4684; 4706; 4735
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	1031
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1926; 3713; 4506
SimI	!GACCC	6	106; 1024; 1201; 3207; 3775; 4023
SinI	G!GWCC	3	1331; 3295; 3740
Slal	C!TCGAG	0	
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 882; 939; 1059; 3216
SmlI	C!TYRAG	5	1661; 3170; 4052; 4329; 4591
SmoI	C!TYRAG	5	1661; 3170; 4052; 4329; 4591
SmuI	CCCGCNNNN!	12	93; 119; 286; 927; 1035; 1212; 1353; 2101; 2456; 2477; 3673; 3805
SmuI	!NNNNNNGCGGG	7	616; 702; 2032; 2902; 3439; 3577; 3724
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2349; 2421; 3184
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	10	18; 1529; 1593; 1671; 1697; 1708; 2355; 2427; 2519; 3937
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2600
SsiI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 612; 660; 920; 1028; 1067; 1160; 1205; 1334; 1346; 1426; 2094; 2097; 2111; 2201; 2449; 2461; 2470; 2482; 2492; 2503; 2549; 2688; 2751; 3253; 3298; 3364; 3390; 3515; 3518; 3666; 3798; 4105; 4249; 4745
SsiI	G!CGG	31	370; 403; 528; 623; 647; 709; 793; 1030; 1222; 1225; 1422; 2039; 2066; 2154; 2264; 2845; 2909; 3010; 3013; 3293; 3348; 3446; 3584; 3731; 3871; 4114; 4359; 4480; 4499; 4626; 4654
SspI	AAT!ATT	2	1687; 2240
SspDI	G!GCGCC	1	2778
SspD5I	GGTGANNNNNNN!	6	376; 896; 1049; 1073; 3850; 3966
SspD5I	!NNNNNNNNTCACC	2	1895; 2956
SstI	GAGCT!C	0	
SstII	CCGC!GG	1	1031
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	26	92; 118; 285; 650; 748; 871; 926; 934; 976; 1034; 1171; 1211; 1285; 1352; 1978; 2100; 2455; 2476; 2789; 3192; 3331; 3402; 3672; 3804; 4034; 4472
Sth132I	!NNNNNNNNCNGGG	20	15; 407; 470; 615; 701; 1979; 2031; 2132; 2859; 2901; 2934; 3438; 3547; 3576; 3723; 3827; 3858; 4311; 4355; 4563
Sth302II	CC!GG	20	645; 694; 731; 854; 1998; 2685; 2762; 2784; 2812; 2943; 3033; 3100; 3281; 3556; 3564; 3656; 4130; 4320; 4346; 4493
StrI	C!TCGAG	0	
StsI	GGATGNNNNNNNNNN!	4	2647; 3104; 3129; 3583
StsI	!NNNNNNNNNNNNNNNNNNCATCC	5	890; 965; 1094; 1142; 2451
StuI	AGG!CCT	1	2600

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StyI	C!CWGG	5	360; 2508; 2601; 3211; 3616
StyD4I	!CCNGG	25	88; 281; 642; 870; 880; 982; 1003; 1057; 1111; 1183; 1264; 1363; 2313; 2368; 2385; 2781; 2941; 3164; 3554; 3743; 3846; 4318; 4536; 4549; 4670
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	13	76; 198; 269; 543; 581; 1870; 3159; 3275; 3383; 3706; 4197; 4667; 4738
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 769; 1153; 1261; 1842; 1854; 1897; 2007; 2898; 3085; 3866; 3999
TaqI	T!CGA	15	751; 1045; 1072; 1216; 1928; 2619; 2892; 3048; 3072; 3108; 3270; 3461; 3506; 3761; 4599
TaqII	GACCGANNNNNNNNNN!	3	1799; 2816; 3484
TaqII	!NNNNNNNNNTCGGTC	1	3728
TaqII	CACCCANNNNNNNNNN!	1	1407
TaqII	!NNNNNNNNNTGGGTG	3	172; 2683; 3275
TasI	!AATT	10	18; 1529; 1593; 1671; 1697; 1708; 2355; 2427; 2519; 3937
TatI	W!GTACW	8	217; 297; 330; 381; 1018; 1129; 1153; 1411
TauI	GCSG!C	23	614; 650; 662; 796; 1033; 1225; 1228; 1428; 2099; 2113; 2551; 2690; 2753; 2848; 3013; 3016; 3255; 3351; 3392; 3520; 3874; 4502; 4657
TfiI	G!AWTC	5	3264; 3398; 3508; 3545; 4723
TliI	C!TCGAG	0	
TruII	T!TAA	15	7; 1480; 1541; 1662; 1683; 1694; 1706; 1717; 1734; 1832; 2103; 3922; 3936; 3941; 3993
Tru9I	T!TAA	15	7; 1480; 1541; 1662; 1683; 1694; 1706; 1717; 1734; 1832; 2103; 3922; 3936; 3941; 3993
TscAI	CASTGNN!	7	661; 915; 1625; 2908; 4018; 4289; 4302
TseI	G!CWGC	19	614; 617; 620; 860; 1232; 1384; 1555; 2074; 2739; 2840; 2882; 2923; 3016; 3403; 3856; 4082; 4288; 4291; 4356
TsoI	TARCCANNNNNNNNNN!	2	1751; 2098
TsoI	!NNNNNNNNNTGGYTA	2	1556; 3308
Tsp45I	!GTSAC	4	884; 2068; 2899; 3205
Tsp509I	!AATT	10	18; 1529; 1593; 1671; 1697; 1708; 2355; 2427; 2519; 3937
TspDTI	ATGAANNNNNNNNNN!	4	951; 1537; 2838; 3542
TspDTI	!NNNNNNNNNTTCAT	5	26; 830; 3256; 3712; 3919
TspEI	!AATT	10	18; 1529; 1593; 1671; 1697; 1708; 2355; 2427; 2519; 3937
TspGWI	ACGGANNNNNNNNNN!	1	3654
TspGWI	!NNNNNNNNNTCCGT	1	590
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	7	661; 915; 1625; 2908; 4018; 4289; 4302
TstI	CACNNNNNTCCNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2897
Tth111II	CAARCANNNNNNNNNN!	1	4106
Tth111III	!NNNNNNNNNTGYTTG	3	3214; 4074; 4113
UnbI	!GGNCC	14	82; 275; 640; 873; 1114; 1274; 1330; 1342; 1885; 3294; 3739; 3785; 3843; 3876
Van9II	CCANNNN!NTGG	3	680; 1124; 1400
Vha464I	C!TTAAG	1	1661
VneI	G!TGCAC	2	768; 4383
VpaK11AI	!GGWCC	3	1330; 3294; 3739
VpaK11BI	G!GWCC	3	1331; 3295; 3740
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	3	1593; 1697; 1708
XbaI	T!CTAGA	1	1433
XceI	RCATG!Y	5	599; 2349; 2421; 3184; 4701
XcmI	CCANNNNN!NNNTGG	2	1181; 1262
XhoI	C!TCGAG	0	
XhoII	R!GATCY	10	585; 670; 686; 2950; 3196; 3588; 3947; 3959; 4045; 4056
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	2601; 3616
XmiI	GT!MKAC	0	
XmnI	GAANN!NNTTC	1	948

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XspI	C!TAG	8	592; 1434; 1628; 2046; 2602; 3617; 3951; 4204
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2351; 2423; 4754