

pTagCFP-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	1563; 1768
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1851; 2807; 4596
AatI	AGG!CCT	1	2601
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	0	
AccII	CG!CG	21	60; 662; 664; 793; 1030; 1069; 1348; 1429; 1704; 2080; 2100; 2124; 2155; 2846; 3147; 3585; 3669; 3732; 3801; 4074; 4655
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2882
Acc36I	ACCTGCNNNN!	2	3048; 3498
Acc36I	!NNNNNNNNGCAGGT	1	2667
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	4	465; 1933; 2779; 2814
AccB7I	CCANNNN!NTGG	3	680; 1124; 1400
AccBSI	CCG!CTC	2	2204; 3393
AccBSI	GAG!CGG	3	709; 2040; 3447
AceIII	CAGCTCNNNNNNN!	1	1736
AceIII	!NNNNNNNNNNGAGCTG	6	552; 708; 741; 1062; 1295; 1395
AcI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 612; 660; 920; 1028; 1067; 1205; 1318; 1334; 1346; 1415; 1427; 2095; 2098; 2112; 2202; 2450; 2462; 2471; 2483; 2493; 2504; 2550; 2689; 2752; 3254; 3299; 3365; 3391; 3516; 3519; 3667; 3799; 4106; 4250; 4746
AcI	G!CGG	31	370; 403; 528; 623; 647; 709; 793; 1030; 1222; 1225; 1423; 2040; 2067; 2155; 2265; 2846; 2910; 3011; 3014; 3294; 3349; 3447; 3585; 3732; 3872; 4115; 4360; 4481; 4500; 4627; 4655
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	8	694; 2648; 2959; 3205; 3597; 3956; 4054; 4140
AcIWI	!NNNNNGATCC	9	580; 665; 681; 1196; 1280; 3024; 3568; 3955; 4052
AcoI	Y!GGCCR	7	773; 1237; 1424; 2686; 2860; 3251; 3278
AcsI	R!AATTY	3	1594; 1698; 1709
AcuI	CTGAAGNNNNNNNNNNNNNNN!	3	1098; 2926; 3358
AcuI	!NNNNNNNNNNNNNCTTCAG	2	1358; 4156
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 609; 811; 2780; 3482; 3561
AdeI	CACNNN!GTG	2	1358; 1896
AfaI	GT!AC	11	219; 244; 299; 332; 383; 540; 1020; 1131; 1155; 1413; 3086
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	24	49; 680; 709; 871; 898; 1004; 1034; 1124; 1400; 1792; 2118; 2510; 2761; 3305; 3586; 3618; 3750; 3785; 3835; 3867; 4220; 4499; 4665; 4683
AfII	C!TTAAG	1	1662
AfIII	A!CRYGT	2	1150; 4698
AgeI	A!CCGGT	1	692
AgsI	TTS!AA	8	956; 1094; 1199; 2191; 2235; 2245; 2658; 4234
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	767
Ajnl	!CCWGG	21	88; 281; 870; 880; 897; 982; 1003; 1057; 1111; 1183; 1264; 1363; 2314; 2369; 2386; 3165; 3744; 3847; 4537; 4550; 4671
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	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	2354; 2426
AlfI	!NNNNNNNNNNNGCANNNNNNNTGC	2	2320; 2392
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1862
AloI	!NNNNNNNNGGANNNNNNGTTC	1	822
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	1	854
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1830
AluI	AG!CT	20	566; 722; 755; 827; 860; 1076; 1235; 1309; 1409; 1559; 1726; 1983; 2278; 2566; 2886; 3344; 4141; 4398; 4444; 4534
AluBI	AG!CT	20	566; 722; 755; 827; 860; 1076; 1235; 1309; 1409; 1559; 1726; 1983; 2278; 2566; 2886; 3344; 4141; 4398; 4444; 4534
AlwI	GGATCNNNN!	8	694; 2648; 2959; 3205; 3597; 3956; 4054; 4140
AlwI	!NNNNNGATCC	9	580; 665; 681; 1196; 1280; 3024; 3568; 3955; 4052
Alw21I	GWGCW!C	6	772; 934; 1363; 2893; 3083; 4388
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	4	2204; 2622; 3641; 3769
Alw44I	G!TGCAC	2	768; 4384
AlwNI	CAGNN!CTG	2	3881; 4289
Ama87I	C!YCGRG	2	927; 969
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	4	911; 2348; 2420; 3882
ApaLI	G!TGCAC	2	768; 4384
ApeKI	G!CWGC	19	614; 617; 620; 860; 1232; 1309; 1556; 2075; 2740; 2841; 2883; 2924; 3017; 3404; 3857; 4083; 4289; 4292; 4357
ApoI	R!AATTY	3	1594; 1698; 1709
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3295
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	3089; 3742; 4580
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3179
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	742; 2608
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	3350
ArsI	GACNNNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	24	586; 671; 687; 749; 833; 1202; 1286; 1438; 2618; 2622; 2641; 2952; 3030; 3111; 3120; 3198; 3574; 3590; 3949; 3961; 4039; 4047; 4058; 4133
AsiGI	A!CCGGT	1	692
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2898
Asp700I	GAANN!NNTTC	1	948
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	2602; 3617
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	27	664; 666; 793; 963; 991; 1137; 1380; 2046; 2054; 2080; 2102; 2111; 2124; 2155; 2774; 2782; 2846; 2883; 3149; 3409; 3585; 3671; 4074; 4183; 4357; 4457; 4524
AspS9I	G!GNCC	13	83; 276; 641; 874; 1115; 1275; 1331; 1887; 3296; 3741; 3787; 3845; 3878
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	3462
AsuC2I	CC!SGG	5	644; 2784; 2944; 3557; 4321
AsuHPI	GGTGANNNNNNNNN!	7	376; 807; 896; 1049; 1073; 3851; 3967
AsuHPI	!NNNNNNNTCACC	2	1897; 2958
AsuNH1	G!CTAGC	1	591
AvaI	C!YCGRG	2	927; 969
AvaII	G!GWCC	3	1331; 3296; 3741
AviII	TGC!GCA	1	2882
AvrII	C!CTAGG	2	2602; 3617

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AxyI	CC!TNAGG	2	2260; 3892
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI:C	7	742; 772; 871; 1264; 2726; 2819; 4388
BalI	TGG!CCA	1	2862
BamHI	G!GATCC	1	686
BanI	G!GYRCC	4	465; 1933; 2779; 2814
BanII	GRGCY!C	3	1971; 3145; 3855
BanIII	AT!CGAT	1	2620
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	3	680; 1124; 1400
BauI	C!ACGAG	2	3498; 4525
BauI	C!TCGTG	1	3372
BbeI	GGCGC!C	1	2783
Bbr7I	GAAGACNNNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2350; 2422; 3185
BbvI	GCAGCNNNNNNNN!	7	1244; 1568; 2853; 2895; 3416; 3869; 4369
BbvI	!NNNNNNNNNNNGCTGC	9	601; 847; 1296; 2062; 2727; 2911; 3004; 4070; 4276
Bbv12I	GWGCW!C	6	772; 934; 1363; 2893; 3083; 4388
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	8	1002; 1146; 1299; 1329; 1910; 2474; 3000; 3502
BccI	!NNNNNGATGG	4	1266; 1878; 2658; 3086
BceAI	ACGGCNNNNNNNNNNNN!	8	776; 836; 1028; 1118; 1196; 1412; 3206; 3693
BceAI	!NNNNNNNNNNNNNGCCGT	3	1921; 2739; 4198
Bcefl	ACGGCNNNNNNNNNNNN!	8	776; 836; 1028; 1118; 1196; 1412; 3206; 3693
Bcefl	!NNNNNNNNNNNNNGCCGT	3	1922; 2740; 4199
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2209; 2999; 4500
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	5	644; 2784; 2944; 3557; 4321
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNNN!	2	1308; 4633
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	2	1274; 4599
BfaI	C!TAG	8	592; 1435; 1629; 2047; 2603; 3618; 3952; 4205
BfiI	ACTGGGNNNNN!	1	2729
BfiI	!NNNNCCCAGT	3	289; 648; 2481
BfmI	C!TRYAG	3	2115; 4242; 4433
BfoI	RGCGC!Y	7	964; 1138; 1381; 2047; 2055; 2783; 4458
BfrI	C!TTAAG	1	1662
BfuI	GTATCCNNNNNN!	3	2209; 2999; 4500
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3048; 3498
BfuAI	!NNNNNNNNNGCAGGT	1	2667
BfuCI	!GATC	24	585; 670; 686; 748; 832; 1201; 1285; 1437; 2617; 2621; 2640; 2951; 3029; 3110; 3119; 3197; 3573; 3589; 3948; 3960; 4038; 4046; 4057; 4132
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2555
BglII	A!GATCT	0	

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BisI	GC!NGC	40	612; 615; 618; 621; 648; 660; 861; 1031; 1223; 1226; 1233; 1310; 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
BlnI	C!CTAGG	2	2602; 3617
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	40	613; 616; 619; 622; 649; 661; 862; 1032; 1224; 1227; 1234; 1311; 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
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	1331; 3296; 3741
Bme1390I	CC!NGG	26	90; 283; 644; 872; 882; 899; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2316; 2371; 2388; 2784; 2944; 3167; 3557; 3746; 3849; 4321; 4539; 4552; 4673
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	927; 969
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	767
BmgT120I	GG!NCC	13	84; 277; 642; 875; 1116; 1276; 1332; 1888; 3297; 3742; 3788; 3846; 3879
BmiI	GGN!NCC	17	467; 651; 688; 1277; 1935; 1956; 1968; 2159; 2320; 2392; 2781; 2816; 3664; 3743; 3788; 4631; 4670
BmrI	ACTGGGNNNNN!	1	2729
BmrI	!NNNNCCCAGT	3	289; 648; 2481
BmrFI	CC!NGG	26	90; 283; 644; 872; 882; 899; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2316; 2371; 2388; 2784; 2944; 3167; 3557; 3746; 3849; 4321; 4539; 4552; 4673
BmsI	GCATCNNNNN!	8	742; 913; 1596; 2359; 2431; 3079; 3143; 3418
BmsI	!NNNNNNNNNGATGC	5	357; 2738; 2993; 3209; 4601
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2729
BmuI	!NNNNCCCAGT	3	289; 648; 2481
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2569; 3468
BpI	!NNNNNNNNGAGNNNNNCTC	2	2537; 3436
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	4	849; 1206; 1386; 3620
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3563
Bpu10I	CC!TNAGC	1	1305
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	3462
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4074; 4613
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	2	3156; 4315
BpuMI	CC!SGG	5	644; 2784; 2944; 3557; 4321
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3769
Bsa29I	AT!CGAT	1	2620
BsaAI	YAC!GTR	3	340; 1896; 3084
BsaBI	GATNN!NNATC	3	1290; 1442; 2639
BsaHI	GR!CGYC	9	122; 175; 258; 444; 609; 811; 2780; 3482; 3561
BsaJI	C!CNNGG	25	360; 870; 880; 898; 970; 1028; 1057; 1112; 1264; 1265; 1394; 2314; 2386; 2509; 2544; 2553; 2602; 2943; 3212; 3617; 3744; 3745; 3847; 3848; 4538
BsaMI	GAATGCN!	1	1531
BsaMI	G!CATTC	1	1624
BsaWI	W!CCGGW	5	692; 2811; 3655; 4345; 4492
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1860
BsaXI	!NNNNNNNGGAGNNNNNNGT	1	822
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	1	852
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1830

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	1781; 3688
Bsc4I	CCNNNNN!NNGG	24	49; 680; 709; 871; 898; 1004; 1034; 1124; 1400; 1792; 2118; 2510; 2761; 3305; 3586; 3618; 3750; 3785; 3835; 3867; 4220; 4499; 4665; 4683
BscAI	GCATCNNNN!	8	741; 912; 1595; 2358; 2430; 3078; 3142; 3417
BscAI	!NNNNNNGATGC	5	360; 2741; 2996; 3212; 4604
BseI	ACTGGN!	3	2724; 2925; 4171
BseI	C!CAGT	8	295; 654; 908; 1313; 1809; 2487; 4283; 4296
Bse8I	GATNN!NNATC	3	1290; 1442; 2639
Bse21I	CC!TNAGG	2	2260; 3892
Bse118I	R!CCGGY	6	692; 852; 1997; 3099; 3280; 3563
BseAI	T!CCGGA	0	
BseBI	CC!WGG	21	90; 283; 872; 882; 899; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2316; 2371; 2388; 3167; 3746; 3849; 4539; 4552; 4673
BseCI	AT!CGAT	1	2620
BseDI	C!CNNGG	25	360; 870; 880; 898; 970; 1028; 1057; 1112; 1264; 1265; 1394; 2314; 2386; 2509; 2544; 2553; 2602; 2943; 3212; 3617; 3744; 3745; 3847; 3848; 4538
Bse3DI	GCAATGNN!	1	3013
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2640; 3097; 3122; 3576
BseGI	!CATCC	5	904; 979; 994; 1108; 2466
BseJI	GATNN!NNATC	3	1290; 1442; 2639
BseLI	CCNNNNN!NNGG	24	49; 680; 709; 871; 898; 1004; 1034; 1124; 1400; 1792; 2118; 2510; 2761; 3305; 3586; 3618; 3750; 3785; 3835; 3867; 4220; 4499; 4665; 4683
BseMI	GCAATGNN!	1	3013
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	3906
BseMII	!NNNNNNNNCTGAG	6	1296; 2251; 2553; 3434; 4006; 4415
BseNI	ACTGGN!	3	2724; 2925; 4171
BseNI	C!CAGT	8	295; 654; 908; 1313; 1809; 2487; 4283; 4296
BsePI	G!CGCGC	1	662
BseRI	GAGGAGNNNNNNNNNN!	2	732; 2598
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	7	742; 772; 871; 1264; 2726; 2819; 4388
BseXI	GCAGCNNNNNNNN!	7	1244; 1568; 2853; 2895; 3416; 3869; 4369
BseXI	!NNNNNNNNNNNGCTGC	9	601; 847; 1296; 2062; 2727; 2911; 3004; 4070; 4276
BseX3I	C!GGCCG	2	1424; 2686
BseYI	C!CCAGC	3	2323; 2395; 4394
BseYI	G!CTGGG	1	3284
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1251
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	830
Bsh1236I	CG!CG	21	60; 662; 664; 793; 1030; 1069; 1348; 1429; 1704; 2080; 2100; 2124; 2155; 2846; 3147; 3585; 3669; 3732; 3801; 4074; 4655
Bsh1285I	CGRY!CG	4	697; 1427; 2689; 4364
BshFI	GG!CC	28	84; 277; 642; 775; 875; 1117; 1173; 1183; 1239; 1276; 1426; 1746; 1888; 2543; 2549; 2558; 2601; 2688; 2862; 3253; 3280; 3789; 3846; 3879; 4224; 4658; 4676; 4687
BshNI	G!GYRCC	4	465; 1933; 2779; 2814
BshTI	A!CCGGT	1	692
BshVI	AT!CGAT	1	2620
BsiEI	CGRY!CG	4	697; 1427; 2689; 4364
BsiHKAI	GWGCW!C	6	772; 934; 1363; 2893; 3083; 4388
BsiHKCI	C!YCGRG	2	927; 969
BsiSI	C!CGG	19	644; 693; 853; 1998; 2685; 2762; 2784; 2812; 2943; 3033; 3100; 3281; 3556; 3564; 3656; 4130; 4320; 4346; 4493
BsiWI	C!GTACG	0	
BslI	CCNNNNN!NNGG	24	49; 680; 709; 871; 898; 1004; 1034; 1124; 1400; 1792; 2118; 2510; 2761; 3305; 3586; 3618; 3750; 3785; 3835; 3867; 4220; 4499; 4665; 4683
BslFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2931; 3463; 3572
BslFI	!NNNNNNNNNNNNNGTCCC	4	2296; 2368; 2432; 3727
BsmI	GAATGCN!	1	1531
BsmI	G!CATTC	1	1624

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BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	4	2204; 2622; 3641; 3769
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2931; 3463; 3572
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2296; 2368; 2432; 3727
BsnI	GG!CC	28	84; 277; 642; 775; 875; 1117; 1173; 1183; 1239; 1276; 1426; 1746; 1888; 2543; 2549; 2558; 2601; 2688; 2862; 3253; 3280; 3789; 3846; 3879; 4224; 4658; 4676; 4687
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3769
BsoBI	C!YCGRG	2	927; 969
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	360; 2509; 3212
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3583
Bsp24I	!NNNNNNCCANNNNNGTC	2	4004; 4182
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	4036; 4214
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3551
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	3462
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	24	585; 670; 686; 748; 832; 1201; 1285; 1437; 2617; 2621; 2640; 2951; 3029; 3110; 3119; 3197; 3573; 3589; 3948; 3960; 4038; 4046; 4057; 4132
Bsp1286I	GDGCH!C	14	742; 772; 871; 934; 1264; 1363; 1971; 2726; 2819; 2893; 3083; 3145; 3855; 4388
Bsp1407I	T!GTACA	1	1153
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 612; 660; 920; 1028; 1067; 1205; 1318; 1334; 1346; 1415; 1427; 2095; 2098; 2112; 2202; 2450; 2462; 2471; 2483; 2493; 2504; 2550; 2689; 2752; 3254; 3299; 3365; 3391; 3516; 3519; 3667; 3799; 4106; 4250; 4746
BspACI	G!CGG	31	370; 403; 528; 623; 647; 709; 793; 1030; 1222; 1225; 1423; 2040; 2067; 2155; 2265; 2846; 2910; 3011; 3014; 3294; 3349; 3447; 3585; 3732; 3872; 4115; 4360; 4481; 4500; 4627; 4655
BspCNI	CTCAGNNNNNNNN!	1	3905
BspCNI	!NNNNNNNCTGAG	6	1297; 2252; 2554; 3435; 4007; 4416
BspDI	AT!CGAT	1	2620
BspD6I	GACTCNNNN!	5	418; 1439; 1853; 3459; 4336
BspD6I	!NNNNNGAGTC	3	1361; 1816; 2248
BspEI	T!CCGGA	0	
BspFNI	CG!CG	21	60; 662; 664; 793; 1030; 1069; 1348; 1429; 1704; 2080; 2100; 2124; 2155; 2846; 3147; 3585; 3669; 3732; 3801; 4074; 4655
BspHI	T!CATGA	2	2206; 3978
BspLI	GGN!NCC	17	467; 651; 688; 1277; 1935; 1956; 1968; 2159; 2320; 2392; 2781; 2816; 3664; 3743; 3788; 4631; 4670
BspMI	ACCTGCNNNN!	2	3048; 3498
BspMI	!NNNNNNNGCAGGT	1	2667
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	694; 2648; 2959; 3205; 3597; 3956; 4054; 4140
BspPI	!NNNNNGATCC	9	580; 665; 681; 1196; 1280; 3024; 3568; 3955; 4052
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	2	3124; 3334
BspTI	C!TTAAG	1	1662
BspT104I	TT!CGAA	1	3462
BspT107I	G!GYRCC	4	465; 1933; 2779; 2814
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3769
BsrI	ACTGGN!	3	2724; 2925; 4171
BsrI	C!CAGT	8	295; 654; 908; 1313; 1809; 2487; 4283; 4296
BsrBI	CCG!CTC	2	2204; 3393
BsrBI	GAG!CGG	3	709; 2040; 3447
BsrDI	GCAATGNN!	1	3013
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	6	692; 852; 1997; 3099; 3280; 3563
BsrGI	T!GTACA	1	1153

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	ACTGGN!	3	2724; 2925; 4171
BsrSI	C!CAGT	8	295; 654; 908; 1313; 1809; 2487; 4283; 4296
BssAI	R!CCGGY	6	692; 852; 1997; 3099; 3280; 3563
BssECI	C!CNNGG	25	360; 870; 880; 898; 970; 1028; 1057; 1112; 1264; 1265; 1394; 2314; 2386; 2509; 2544; 2553; 2602; 2943; 3212; 3617; 3744; 3745; 3847; 3848; 4538
BssHII	G!CGCGC	1	662
BssKI	!CCNNGG	26	88; 281; 642; 870; 880; 897; 982; 1003; 1057; 1111; 1183; 1264; 1363; 2314; 2369; 2386; 2782; 2942; 3165; 3555; 3744; 3847; 4319; 4537; 4550; 4671
BssMI	!GATC	24	585; 670; 686; 748; 832; 1201; 1285; 1437; 2617; 2621; 2640; 2951; 3029; 3110; 3119; 3197; 3573; 3589; 3948; 3960; 4038; 4046; 4057; 4132
BssNI	GR!CGYC	9	122; 175; 258; 444; 609; 811; 2780; 3482; 3561
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3498; 4525
BssSI	C!TCGTG	1	3372
BssTII	C!CWWGG	5	360; 2509; 2602; 3212; 3617
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	3	2247; 3124; 3334
Bst98I	C!TTAAG	1	1662
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 609; 811; 2780; 3482; 3561
BstAFI	C!TTAAG	1	1662
BstAPI	GCANNNN!NTGC	4	910; 2347; 2419; 3881
BstAUI	T!GTACA	1	1153
BstBI	TT!CGAA	1	3462
Bst2BI	C!ACGAG	2	3498; 4525
Bst2BI	C!TCGTG	1	3372
BstBAI	YAC!GTR	3	340; 1896; 3084
Bst4CI	ACN!GT	13	76; 198; 269; 543; 581; 1871; 3160; 3276; 3384; 3707; 4198; 4668; 4739
BstC8I	GCN!NGC	36	86; 279; 593; 664; 731; 789; 825; 858; 920; 1230; 1237; 1346; 1999; 2042; 2056; 2329; 2348; 2401; 2420; 2674; 2860; 3079; 3145; 3151; 3183; 3224; 3228; 3282; 3565; 3752; 3799; 3855; 3877; 4088; 4648; 4685
BstDEI	C!TNAG	7	1305; 2260; 2562; 3443; 3892; 4015; 4424
BstDSI	C!CRYGG	5	360; 1028; 1394; 2509; 3212
BstEII	G!GTNACC	1	884
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2640; 3097; 3122; 3576
BstF5I	!CATCC	5	904; 979; 994; 1108; 2466
BstFNI	CG!CG	21	60; 662; 664; 793; 1030; 1069; 1348; 1429; 1704; 2080; 2100; 2124; 2155; 2846; 3147; 3585; 3669; 3732; 3801; 4074; 4655
BstH2I	RGCGC!Y	7	964; 1138; 1381; 2047; 2055; 2783; 4458
BstHHI	GCG!C	27	664; 666; 793; 963; 991; 1137; 1380; 2046; 2054; 2080; 2102; 2111; 2124; 2155; 2774; 2782; 2846; 2883; 3149; 3409; 3585; 3671; 4074; 4183; 4357; 4457; 4524
BstKTI	GAT!C	24	588; 673; 689; 751; 835; 1204; 1288; 1440; 2620; 2624; 2643; 2954; 3032; 3113; 3122; 3200; 3576; 3592; 3951; 3963; 4041; 4049; 4060; 4135
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	4	2204; 2622; 3641; 3769
BstMBI	!GATC	24	585; 670; 686; 748; 832; 1201; 1285; 1437; 2617; 2621; 2640; 2951; 3029; 3110; 3119; 3197; 3573; 3589; 3948; 3960; 4038; 4046; 4057; 4132
BstMCI	CGRY!CG	4	697; 1427; 2689; 4364
BstMWI	GCNNNNN!NNGC	36	90; 212; 244; 283; 376; 400; 617; 634; 656; 752; 853; 866; 910; 1141; 1333; 1384; 1423; 2007; 2037; 2064; 2106; 2347; 2419; 2470; 2549; 2771; 2855; 2878; 3017; 3140; 3223; 3490; 3677; 3881; 4080; 4652
BstNI	CC!WGG	21	90; 283; 872; 882; 899; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2316; 2371; 2388; 3167; 3746; 3849; 4539; 4552; 4673
BstNSI	RCATG!Y	5	599; 2350; 2422; 3185; 4702
BstOI	CC!WGG	21	90; 283; 872; 882; 899; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2316; 2371; 2388; 3167; 3746; 3849; 4539; 4552; 4673
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	26	88; 281; 642; 870; 880; 897; 982; 1003; 1057; 1111; 1183; 1264; 1363; 2314; 2369; 2386; 2782; 2942; 3165; 3555; 3744; 3847; 4319; 4537; 4550; 4671
BstSFI	C!TRYAG	3	2115; 4242; 4433
BstSLI	GKGCMI!C	7	742; 772; 871; 1264; 2726; 2819; 4388
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	21	60; 662; 664; 793; 1030; 1069; 1348; 1429; 1704; 2080; 2100; 2124; 2155; 2846; 3147; 3585; 3669; 3732; 3801; 4074; 4655
Bst2UI	CC!WGG	21	90; 283; 872; 882; 899; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2316; 2371; 2388; 3167; 3746; 3849; 4539; 4552; 4673
BstV1I	GCAGCNNNNNNNN!	7	1244; 1568; 2853; 2895; 3416; 3869; 4369
BstV1I	!NNNNNNNNNNNGCTGC	9	601; 847; 1296; 2062; 2727; 2911; 3004; 4070; 4276
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	11	585; 670; 686; 1201; 2951; 3197; 3589; 3948; 3960; 4046; 4057
BstYI	R!GATCY	11	585; 670; 686; 1201; 2951; 3197; 3589; 3948; 3960; 4046; 4057
BstZI	C!GGCCG	2	1424; 2686
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2209; 2999; 4500
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2620
Bsu36I	CC!TNAGG	2	2260; 3892
BsuRI	GG!CC	28	84; 277; 642; 775; 875; 1117; 1173; 1183; 1239; 1276; 1426; 1746; 1888; 2543; 2549; 2558; 2601; 2688; 2862; 3253; 3280; 3789; 3846; 3879; 4224; 4658; 4676; 4687
BsuTUI	AT!CGAT	1	2620
BtgI	C!CRYGG	5	360; 1028; 1394; 2509; 3212
BtgZI	GCGATGNNNNNNNNNN!	3	1285; 1897; 3232
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3051; 3395
BthCI	GCNG!C	40	614; 617; 620; 623; 650; 662; 863; 1033; 1225; 1228; 1235; 1312; 1429; 1559; 2078; 2100; 2114; 2552; 2691; 2743; 2754; 2844; 2849; 2886; 2927; 3014; 3020; 3256; 3352; 3393; 3407; 3521; 3860; 3875; 4086; 4292; 4295; 4360; 4503; 4658
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	767
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1619
BtsCI	GGATGNN!	4	2640; 3097; 3122; 3576
BtsCI	!CATCC	5	904; 979; 994; 1108; 2466
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3048; 3498
BveI	!NNNNNNNNGCAGGT	1	2667
Cac8I	GCN!NGC	36	86; 279; 593; 664; 731; 789; 825; 858; 920; 1230; 1237; 1346; 1999; 2042; 2056; 2329; 2348; 2401; 2420; 2674; 2860; 3079; 3145; 3151; 3183; 3224; 3228; 3282; 3565; 3752; 3799; 3855; 3877; 4088; 4648; 4685
CaiI	CAGNNN!CTG	2	3881; 4289
CciI	T!CATGA	2	2206; 3978
CciNI	GC!GGCCGC	1	1424
CdiI	CATC!G	7	352; 737; 1217; 3069; 3074; 3272; 3413
CdiI	C!GATG	3	1271; 1883; 3218
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4652
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2441; 2483
CelII	GC!TNAGC	0	
CfoI	GCG!C	27	664; 666; 793; 963; 991; 1137; 1380; 2046; 2054; 2080; 2102; 2111; 2124; 2155; 2774; 2782; 2846; 2883; 3149; 3409; 3585; 3671; 4074; 4183; 4357; 4457; 4524
CfrI	Y!GGCCR	7	773; 1237; 1424; 2686; 2860; 3251; 3278
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	6	692; 852; 1997; 3099; 3280; 3563
Cfr13I	G!GNCC	13	83; 276; 641; 874; 1115; 1275; 1331; 1887; 3296; 3741; 3787; 3845; 3878
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; 1205; 1289; 1441; 2621; 2625; 2644; 2955; 3033; 3114; 3123; 3201; 3577; 3593; 3952; 3964; 4042; 4050; 4061; 4136
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	4	2597; 4037; 4137; 4215
CjeI	!NNNNNNNNNACNNNNNTGG	7	64; 257; 2264; 2359; 3551; 4101; 4656
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2298; 2393; 3585; 4135; 4690
CjeI	!NNNNNNNNCCANNNNNNGT	4	2563; 4003; 4103; 4181
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	2	4037; 4215
CjePI	!NNNNNNNNGANNNNNNTGG	3	257; 3551; 4150
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	3	290; 3584; 4183
CjePI	!NNNNNNNNCCANNNNNNTC	2	4004; 4182
Clal	AT!CGAT	1	2620
CpoI	CG!GWCCG	1	3296
CseI	GACGCNNNNN!	5	526; 617; 819; 3490; 3569
CseI	!NNNNNNNNNNGCGTC	4	1058; 2113; 4008; 4586
CsiI	A!CCWGGT	1	2369
CspI	CG!GWCCG	1	3296
Csp6I	G!TAC	11	218; 243; 298; 331; 382; 539; 1019; 1130; 1154; 1412; 3085
Csp45I	TT!CGAA	1	3462
CspAI	A!CCGGT	1	692
CspCI	CAANNNNGTGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1120; 2060; 3669
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	22	301; 361; 596; 704; 935; 965; 1160; 1355; 1400; 2207; 2347; 2419; 2510; 2651; 2996; 3182; 3213; 3239; 3595; 3979; 4699; 4750
CviJI	RG!CY	94	42; 84; 93; 277; 566; 628; 637; 642; 650; 722; 755; 775; 827; 860; 875; 976; 1076; 1090; 1117; 1173; 1183; 1235; 1239; 1276; 1309; 1344; 1409; 1426; 1449; 1559; 1726; 1746; 1888; 1969; 1983; 1997; 2278; 2319; 2391; 2514; 2543; 2549; 2558; 2566; 2589; 2601; 2607; 2688; 2705; 2713; 2740; 2765; 2849; 2858; 2862; 2886; 2924; 3000; 3017; 3036; 3099; 3143; 3153; 3170; 3253; 3280; 3284; 3321; 3344; 3360; 3540; 3567; 3628; 3750; 3789; 3846; 3853; 3860; 3879; 3890; 4141; 4170; 4213; 4224; 4289; 4368; 4393; 4398; 4444; 4534; 4632; 4658; 4676; 4687
CviKI-1	RG!CY	94	42; 84; 93; 277; 566; 628; 637; 642; 650; 722; 755; 775; 827; 860; 875; 976; 1076; 1090; 1117; 1173; 1183; 1235; 1239; 1276; 1309; 1344; 1409; 1426; 1449; 1559; 1726; 1746; 1888; 1969; 1983; 1997; 2278; 2319; 2391; 2514; 2543; 2549; 2558; 2566; 2589; 2601; 2607; 2688; 2705; 2713; 2740; 2765; 2849; 2858; 2862; 2886; 2924; 3000; 3017; 3036; 3099; 3143; 3153; 3170; 3253; 3280; 3284; 3321; 3344; 3360; 3540; 3567; 3628; 3750; 3789; 3846; 3853; 3860; 3879; 3890; 4141; 4170; 4213; 4224; 4289; 4368; 4393; 4398; 4444; 4534; 4632; 4658; 4676; 4687
CviQI	G!TAC	11	218; 243; 298; 331; 382; 539; 1019; 1130; 1154; 1412; 3085
DdeI	C!TNAG	7	1305; 2260; 2562; 3443; 3892; 4015; 4424
DinI	GGC!GCC	1	2781
DpnI	GA!TC	24	587; 672; 688; 750; 834; 1203; 1287; 1439; 2619; 2623; 2642; 2953; 3031; 3112; 3121; 3199; 3575; 3591; 3950; 3962; 4040; 4048; 4059; 4134
DpnII	!GATC	24	585; 670; 686; 748; 832; 1201; 1285; 1437; 2617; 2621; 2640; 2951; 3029; 3110; 3119; 3197; 3573; 3589; 3948; 3960; 4038; 4046; 4057; 4132
DraI	TTT!AAA	3	1482; 3924; 3943
DraII	RG!GNCCY	1	3878
DraIII	CACNNN!GTG	2	1358; 1896
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	4	266; 1042; 1354; 4260
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1851; 2807; 4596
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1851; 2807; 4596

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EaeI	Y!GGCCR	7	773; 1237; 1424; 2686; 2860; 3251; 3278
EagI	C!GGCCG	2	1424; 2686
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2247; 3124; 3334
Eam1105I	GACNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	2247; 3124; 3334
EciI	GGCGGANNNNNNNNNN!	4	2280; 3309; 4496; 4642
EciI	!NNNNNNNNNTCCGCC	6	496; 1194; 1307; 2451; 2472; 2493
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	2	1424; 2686
Eco24I	GRGCY!C	3	1971; 3145; 3855
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	1	3769
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	1331; 3296; 3741
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	2	1424; 2686
Eco57I	CTGAAGNNNNNNNNNNNN!	3	1098; 2926; 3358
Eco57I	!NNNNNNNNNNNNNCTTCAG	2	1358; 4156
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	2	2260; 3892
Eco88I	C!YCGRG	2	927; 969
Eco91I	G!GTNACC	1	884
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	5	360; 2509; 2602; 3212; 3617
Eco147I	AGG!CCT	1	2601
EcoHI	!CCSGG	5	642; 2782; 2942; 3555; 4319
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	7	849; 1098; 1206; 1386; 2926; 3358; 3620
Eco57MI	!NNNNNNNNNNNNNCTYCAG	3	1358; 3563; 4156
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	1	884
Eco0109I	RG!GNCCY	1	3878
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	21	88; 281; 870; 880; 897; 982; 1003; 1057; 1111; 1183; 1264; 1363; 2314; 2369; 2386; 3165; 3744; 3847; 4537; 4550; 4671
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	360; 2509; 2602; 3212; 3617
EcoT22I	ATGCA!T	3	2352; 2424; 4755
EcoT38I	GRGCY!C	3	1971; 3145; 3855
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	1	2781
EheI	GGC!GCC	1	2781
ErhI	C!CWWGG	5	360; 2509; 2602; 3212; 3617
EsaBC3I	TC!GA	15	752; 1046; 1073; 1217; 1930; 2621; 2894; 3050; 3074; 3110; 3272; 3463; 3508; 3763; 4601
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNGAGACG	0	
FaeI	CATG!	22	304; 364; 599; 707; 938; 968; 1163; 1358; 1403; 2210; 2350; 2422; 2513; 2654; 2999; 3185; 3216; 3242; 3598; 3982; 4702; 4753
Fail	YA!TR	58	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 597; 705; 936; 966; 1161; 1356; 1401; 1442; 1452; 1518; 1563; 1768; 2196; 2208; 2339; 2348; 2411; 2420; 2444; 2511; 2535; 2652; 2716; 2997; 3022; 3183; 3214; 3240; 3312; 3528; 3596; 3674; 3726; 3887; 3904; 3906; 3908; 3980; 4258; 4447; 4563; 4636; 4700; 4751
FalI	AAGNNNNNCTNNNNNNNNNNNN!	1	3120
FalI	!NNNNNNNNAAGNNNNNCTT	1	3088
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2931; 3463; 3572
FaqI	!NNNNNNNNNNNNNGTCCC	4	2296; 2368; 2432; 3727
FatI	!CATG	22	300; 360; 595; 703; 934; 964; 1159; 1354; 1399; 2206; 2346; 2418; 2509; 2650; 2995; 3181; 3212; 3238; 3594; 3978; 4698; 4749
FauI	CCCGCNNNN!	11	93; 119; 286; 927; 1035; 1353; 2102; 2457; 2478; 3674; 3806

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FauI	!NNNNNNGCGGG	7	616; 702; 2033; 2903; 3440; 3578; 3725
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	0	
FmuI	GGNC!C	13	86; 279; 644; 877; 1118; 1278; 1334; 1890; 3299; 3744; 3790; 3848; 3881
Fnu4HI	GC!NGC	40	612; 615; 618; 621; 648; 660; 861; 1031; 1223; 1226; 1233; 1310; 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
FokI	GGATGNNNNNNNNN!	4	2647; 3104; 3129; 3583
FokI	!NNNNNNNNNNNNNCATCC	4	891; 966; 1095; 2453
FriOI	GRGCY!C	3	1971; 3145; 3855
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2882
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1435; 1629; 2047; 2603; 3618; 3952; 4205
FspEI	CCNNNNNNNNNNN!	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; 754; 789; 827; 863; 877; 893; 911; 932; 977; 996; 1011; 1040; 1070; 1125; 1151; 1177; 1197; 1218; 1253; 1268; 1290; 1304; 1326; 1347; 1365; 1385; 1401; 1428; 1463; 1502; 1516; 1657; 1752; 1776; 1799; 1822; 1840; 1862; 1883; 1902; 1921; 1950; 1971; 1985; 2011; 2099; 2125; 2174; 2215; 2233; 2272; 2288; 2326; 2383; 2398; 2455; 2475; 2489; 2506; 2520; 2557; 2572; 2615; 2698; 2765; 2796; 2816; 2831; 2876; 2890; 2956; 2970; 2989; 3005; 3046; 3066; 3113; 3163; 3179; 3199; 3224; 3244; 3267; 3294; 3312; 3338; 3378; 3404; 3428; 3484; 3498; 3526; 3569; 3590; 3625; 3669; 3757; 3781; 3803; 3823; 3839; 3860; 3874; 3893; 3977; 3997; 4025; 4040; 4074; 4116; 4143; 4158; 4203; 4227; 4241; 4263; 4289; 4309; 4333; 4359; 4407; 4426; 4445; 4471; 4506; 4551; 4581; 4595; 4646; 4660; 4685; 4701; 4722; 4751
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; 884; 957; 990; 1015; 1033; 1065; 1083; 1110; 1155; 1173; 1203; 1221; 1251; 1314; 1341; 1381; 1408; 1451; 1551; 1620; 1650; 1728; 1777; 1799; 1827; 1863; 1908; 1937; 1973; 1992; 2020; 2040; 2103; 2126; 2234; 2266; 2284; 2313; 2356; 2385; 2496; 2525; 2568; 2589; 2617; 2650; 2670; 2695; 2722; 2747; 2769; 2797; 2823; 2844; 2895; 2916; 2934; 2982; 3018; 3074; 3099; 3123; 3152; 3175; 3199; 3225; 3247; 3266; 3291; 3331; 3367; 3432; 3517; 3541; 3570; 3604; 3625; 3645; 3690; 3717; 3736; 3769; 3821; 3852; 3879; 3931; 4029; 4100; 4145; 4206; 4271; 4305; 4331; 4349; 4385; 4455; 4478; 4500; 4524; 4557; 4605; 4640; 4658; 4715
Fsp4HI	GC!NGC	40	612; 615; 618; 621; 648; 660; 861; 1031; 1223; 1226; 1233; 1310; 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
GdiII	C!GGCCR	3	773; 1424; 2686
GdiII	Y!GGCCG	5	1237; 1424; 2686; 3251; 3278
GlaI	GC!GC	27	663; 665; 792; 962; 990; 1136; 1379; 2045; 2053; 2079; 2101; 2110; 2123; 2154; 2773; 2781; 2845; 2882; 3148; 3408; 3584; 3670; 4073; 4182; 4356; 4456; 4523
GluI	GC!NGC	40	612; 615; 618; 621; 648; 660; 861; 1031; 1223; 1226; 1233; 1310; 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
GsaI	CCCAG!C	3	2327; 2399; 4398
GsaI	GCTGG!G	1	3288
GsuI	CTGGAGNNNNNNNNNNNNNNN!	4	849; 1206; 1386; 3620
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3563
HaeI	WGG!CCW	6	1173; 2601; 2862; 4224; 4676; 4687
HaeII	RGCG!Y	7	964; 1138; 1381; 2047; 2055; 2783; 4458
HaeIII	GG!CC	28	84; 277; 642; 775; 875; 1117; 1173; 1183; 1239; 1276; 1426; 1746; 1888; 2543; 2549; 2558; 2601; 2688; 2862; 3253; 3280; 3789; 3846; 3879; 4224; 4658; 4676; 4687
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	1455; 2976
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1421; 2942

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	1454; 2975
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1423; 2944
HapII	C!CGG	19	644; 693; 853; 1998; 2685; 2762; 2784; 2812; 2943; 3033; 3100; 3281; 3556; 3564; 3656; 4130; 4320; 4346; 4493
HgaI	GACGCNNNNN!	5	526; 617; 819; 3490; 3569
HgaI	!NNNNNNNNNGCGTC	4	1058; 2113; 4008; 4586
HhaI	GCG!C	27	664; 666; 793; 963; 991; 1137; 1380; 2046; 2054; 2080; 2102; 2111; 2124; 2155; 2774; 2782; 2846; 2883; 3149; 3409; 3585; 3671; 4074; 4183; 4357; 4457; 4524
Hin1I	GR!CGYC	9	122; 175; 258; 444; 609; 811; 2780; 3482; 3561
Hin1III	CATG!	22	304; 364; 599; 707; 938; 968; 1163; 1358; 1403; 2210; 2350; 2422; 2513; 2654; 2999; 3185; 3216; 3242; 3598; 3982; 4702; 4753
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1454; 2975
Hin4I	!NNNNNNNGABNNNNNRTC	3	1422; 2943; 2973
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	1454; 2975; 3005
Hin4I	!NNNNNNNGAYNNNNNVTC	2	1422; 2943
Hin6I	G!CGC	27	662; 664; 791; 961; 989; 1135; 1378; 2044; 2052; 2078; 2100; 2109; 2122; 2153; 2772; 2780; 2844; 2881; 3147; 3407; 3583; 3669; 4072; 4181; 4355; 4455; 4522
HinP1I	G!CGC	27	662; 664; 791; 961; 989; 1135; 1378; 2044; 2052; 2078; 2100; 2109; 2122; 2153; 2772; 2780; 2844; 2881; 3147; 3407; 3583; 3669; 4072; 4181; 4355; 4455; 4522
HincII	GTY!RAC	1	1543
HindII	GTY!RAC	1	1543
HindIII	A!AGCTT	0	
HinfI	G!ANTC	13	410; 1368; 1431; 1823; 1845; 2255; 3265; 3399; 3451; 3509; 3546; 4328; 4724
HpaI	GTT!AAC	1	1543
HpaII	C!CGG	19	644; 693; 853; 1998; 2685; 2762; 2784; 2812; 2943; 3033; 3100; 3281; 3556; 3564; 3656; 4130; 4320; 4346; 4493
HphI	GGTGANNNNNNNN!	7	376; 807; 896; 1049; 1073; 3851; 3967
HphI	!NNNNNNNTCACC	2	1897; 2958
Hpy8I	GTN!NAC	11	201; 539; 577; 770; 1064; 1154; 1543; 1827; 1844; 1899; 4386
Hpy99I	CGWCG!	11	768; 813; 1014; 1074; 2870; 2898; 3192; 3207; 3484; 3869; 4602
Hpy166II	GTN!NAC	11	201; 539; 577; 770; 1064; 1154; 1543; 1827; 1844; 1899; 4386
Hpy188I	TCN!GA	11	585; 1954; 2563; 2747; 3091; 3444; 3545; 4024; 4158; 4511; 4589
Hpy188III	TC!NNGA	23	605; 956; 1199; 1435; 2207; 2259; 2572; 2625; 2798; 3114; 3123; 3206; 3262; 3306; 3396; 3429; 3498; 3979; 4053; 4136; 4234; 4332; 4466
HpyAV	CCTTCNNNNNN!	4	1382; 3425; 3532; 4211
HpyAV	!NNNNNGAAGG	8	1073; 2013; 2908; 3637; 3653; 3836; 4153; 4463
HpyCH4III	ACN!GT	13	76; 198; 269; 543; 581; 1871; 3160; 3276; 3384; 3707; 4198; 4668; 4739
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 766; 1150; 1258; 1840; 1852; 1895; 2005; 2896; 3083; 3864; 3997
HpyCH4V	TG!CA	19	770; 847; 1232; 1529; 1556; 1624; 2341; 2350; 2413; 2422; 2537; 2613; 2672; 2831; 3006; 3020; 4090; 4386; 4753
HpyF3I	C!TNAG	7	1305; 2260; 2562; 3443; 3892; 4015; 4424
HpyF10VI	GCNNNNN!NNGC	36	90; 212; 244; 283; 376; 400; 617; 634; 656; 752; 853; 866; 910; 1141; 1333; 1384; 1423; 2007; 2037; 2064; 2106; 2347; 2419; 2470; 2549; 2771; 2855; 2878; 3017; 3140; 3223; 3490; 3677; 3881; 4080; 4652
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 609; 811; 2780; 3482; 3561
Hsp92II	CATG!	22	304; 364; 599; 707; 938; 968; 1163; 1358; 1403; 2210; 2350; 2422; 2513; 2654; 2999; 3185; 3216; 3242; 3598; 3982; 4702; 4753
HspAI	G!CGC	27	662; 664; 791; 961; 989; 1135; 1378; 2044; 2052; 2078; 2100; 2109; 2122; 2153; 2772; 2780; 2844; 2881; 3147; 3407; 3583; 3669; 4072; 4181; 4355; 4455; 4522
KasI	G!GCGCC	1	2779
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	1031
Ksp22I	T!GATCA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
KspAI	GTT!AAC	1	1543
Kzo9I	!GATC	24	585; 670; 686; 748; 832; 1201; 1285; 1437; 2617; 2621; 2640; 2951; 3029; 3110; 3119; 3197; 3573; 3589; 3948; 3960; 4038; 4046; 4057; 4132
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3124; 3334
LpnI	RGCI!GCY	7	962; 1136; 1379; 2045; 2053; 2781; 4456
LpnPI	CCDGNNNNNNNNN!	61	102; 295; 618; 657; 706; 866; 884; 911; 996; 1017; 1071; 1125; 1197; 1263; 1278; 1317; 1377; 1517; 1822; 2011; 2234; 2272; 2288; 2328; 2383; 2400; 2500; 2585; 2698; 2775; 2797; 2820; 2956; 2970; 2989; 3046; 3113; 3163; 3179; 3236; 3294; 3503; 3569; 3593; 3669; 3758; 3861; 3894; 4125; 4143; 4289; 4309; 4333; 4359; 4408; 4506; 4551; 4581; 4660; 4685; 4722
LpnPI	!NNNNNNNNNNNNNNCHGG	60	75; 268; 552; 619; 678; 715; 741; 813; 838; 857; 884; 969; 990; 1044; 1098; 1170; 1221; 1251; 1350; 1863; 1983; 2040; 2103; 2301; 2313; 2373; 2385; 2617; 2662; 2705; 2747; 2769; 2797; 2844; 2906; 2928; 3018; 3085; 3108; 3152; 3247; 3266; 3291; 3440; 3541; 3584; 3641; 3731; 3834; 3861; 3879; 4115; 4152; 4305; 4331; 4471; 4489; 4524; 4605; 4658
Lsp1109I	GCAGCNNNNNNNN!	7	1244; 1568; 2853; 2895; 3416; 3869; 4369
Lsp1109I	!NNNNNNNNNNNGCTGC	9	601; 847; 1296; 2062; 2727; 2911; 3004; 4070; 4276
LweI	GCATCNNNNN!	8	742; 913; 1596; 2359; 2431; 3079; 3143; 3418
LweI	!NNNNNNNNNGATGC	5	357; 2738; 2993; 3209; 4601
MabI	A!CCWGGT	1	2369
MaeI	C!TAG	8	592; 1435; 1629; 2047; 2603; 3618; 3952; 4205
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 766; 1150; 1258; 1840; 1852; 1895; 2005; 2896; 3083; 3864; 3997
MaeIII	!GTNAC	13	61; 148; 497; 884; 1568; 2069; 2081; 2900; 3206; 3896; 4162; 4278; 4341
MaiI	GA!TC	24	587; 672; 688; 750; 834; 1203; 1287; 1439; 2619; 2623; 2642; 2953; 3031; 3112; 3121; 3199; 3575; 3591; 3950; 3962; 4040; 4048; 4059; 4134
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2204; 3393
MbiI	GAG!CGG	3	709; 2040; 3447
MboI	!GATC	24	585; 670; 686; 748; 832; 1201; 1285; 1437; 2617; 2621; 2640; 2951; 3029; 3110; 3119; 3197; 3573; 3589; 3948; 3960; 4038; 4046; 4057; 4132
MboII	GAAGANNNNNNNN!	6	950; 2036; 2264; 3141; 3351; 3970
MboII	!NNNNNNNTCTTC	5	944; 3431; 3598; 3798; 4041
McaTI	GCGC!GC	1	665
MfeI	C!AATTG	1	1530
MfII	R!GATCY	11	585; 670; 686; 1201; 2951; 3197; 3589; 3948; 3960; 4046; 4057
MhII	GDGCH!C	14	742; 772; 871; 934; 1264; 1363; 1971; 2726; 2819; 2893; 3083; 3145; 3855; 4388
MisI	TGG!CCA	1	2862
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2862
MlyI	GAGTCNNNNN!	3	1377; 1832; 2264
MlyI	!NNNNNGACTC	5	404; 1425; 1839; 3445; 4322
Mly113I	GG!CGCC	1	2780
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1873
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	3	1105; 4305; 4489
MnII	CCTCNNNNNNN!	8	903; 1499; 2563; 3381; 3587; 3901; 4271; 4595
MnII	!NNNNNGAGG	22	541; 710; 791; 965; 1028; 1040; 1079; 1091; 1181; 1211; 1459; 1924; 2255; 2533; 2576; 2591; 2631; 2695; 2831; 3188; 3618; 4521
Mph1103I	ATGCA!T	3	2352; 2424; 4755
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	1997; 3280; 3563
MroXI	GAANN!NNTTC	1	948
MscI	TGG!CCA	1	2862
MseI	T!TAA	15	7; 1481; 1542; 1663; 1684; 1695; 1707; 1718; 1735; 1833; 2104; 3923; 3937; 3942; 3994

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MslI	CAYNN!NNRTG	5	365; 882; 939; 1059; 3217
MspI	C!CGG	19	644; 693; 853; 1998; 2685; 2762; 2784; 2812; 2943; 3033; 3100; 3281; 3556; 3564; 3656; 4130; 4320; 4346; 4493
Msp20I	TGG!CCA	1	2862
MspA1I	CMG!CKG	7	614; 1030; 1235; 2278; 2886; 4115; 4360
MspCI	C!TTAAG	1	1662
MspJI	CNNRNNNNNNNN!	241	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; 826; 840; 865; 878; 893; 906; 920; 939; 968; 981; 995; 1016; 1034; 1058; 1071; 1085; 1106; 1124; 1163; 1176; 1196; 1211; 1229; 1248; 1262; 1277; 1290; 1316; 1340; 1357; 1376; 1393; 1407; 1430; 1447; 1463; 1487; 1504; 1517; 1558; 1572; 1585; 1603; 1641; 1656; 1674; 1715; 1739; 1759; 1777; 1798; 1821; 1853; 1868; 1890; 1908; 1921; 1942; 1959; 1972; 1985; 2001; 2014; 2044; 2059; 2084; 2102; 2115; 2130; 2154; 2168; 2192; 2217; 2233; 2271; 2287; 2326; 2340; 2354; 2382; 2398; 2412; 2426; 2455; 2468; 2489; 2498; 2520; 2550; 2566; 2584; 2614; 2637; 2661; 2685; 2704; 2732; 2758; 2774; 2787; 2810; 2824; 2844; 2857; 2871; 2890; 2904; 2917; 2933; 2948; 2961; 2977; 2992; 3008; 3033; 3052; 3068; 3081; 3094; 3112; 3126; 3140; 3156; 3178; 3194; 3213; 3235; 3251; 3274; 3293; 3307; 3323; 3337; 3357; 3373; 3386; 3408; 3441; 3455; 3475; 3488; 3502; 3556; 3569; 3592; 3605; 3624; 3641; 3668; 3704; 3737; 3756; 3781; 3802; 3829; 3842; 3859; 3873; 3888; 3904; 3964; 3989; 4005; 4027; 4040; 4054; 4085; 4099; 4124; 4142; 4157; 4170; 4189; 4202; 4217; 4246; 4265; 4283; 4308; 4323; 4342; 4358; 4377; 4395; 4411; 4425; 4444; 4471; 4494; 4516; 4535; 4550; 4563; 4580; 4600; 4627; 4640; 4659; 4684; 4707; 4721; 4734; 4751
MspJI	!NNNNNNNNNNNNYNGG	202	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; 805; 822; 839; 857; 880; 901; 921; 942; 969; 990; 1008; 1030; 1054; 1071; 1098; 1127; 1146; 1170; 1190; 1215; 1236; 1253; 1290; 1310; 1331; 1350; 1381; 1414; 1432; 1461; 1490; 1532; 1615; 1650; 1677; 1700; 1729; 1773; 1795; 1827; 1863; 1880; 1901; 1938; 1958; 1975; 1992; 2027; 2045; 2063; 2080; 2104; 2126; 2153; 2181; 2207; 2245; 2266; 2283; 2301; 2324; 2345; 2373; 2396; 2417; 2435; 2456; 2473; 2496; 2520; 2540; 2558; 2580; 2611; 2633; 2659; 2678; 2695; 2723; 2742; 2761; 2779; 2797; 2818; 2840; 2864; 2897; 2917; 2935; 2956; 2982; 3009; 3026; 3043; 3060; 3086; 3108; 3130; 3148; 3168; 3187; 3209; 3247; 3267; 3291; 3311; 3331; 3358; 3382; 3415; 3434; 3462; 3484; 3513; 3541; 3566; 3585; 3604; 3625; 3642; 3659; 3690; 3717; 3737; 3760; 3780; 3817; 3834; 3853; 3879; 3899; 3938; 3965; 3984; 4002; 4039; 4057; 4098; 4116; 4142; 4159; 4191; 4220; 4248; 4269; 4292; 4311; 4332; 4350; 4367; 4385; 4411; 4432; 4452; 4472; 4490; 4511; 4537; 4554; 4573; 4592; 4621; 4640; 4658; 4677; 4695; 4713; 4736
MspR9I	CC!NGG	26	90; 283; 644; 872; 882; 899; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2316; 2371; 2388; 2784; 2944; 3167; 3557; 3746; 3849; 4321; 4539; 4552; 4673
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1530
MvaI	CC!WGG	21	90; 283; 872; 882; 899; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2316; 2371; 2388; 3167; 3746; 3849; 4539; 4552; 4673
Mva1269I	GAATGCN!	1	1531
Mva1269I	G!CATTC	1	1624
MvnI	CG!CG	21	60; 662; 664; 793; 1030; 1069; 1348; 1429; 1704; 2080; 2100; 2124; 2155; 2846; 3147; 3585; 3669; 3732; 3801; 4074; 4655
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	36	90; 212; 244; 283; 376; 400; 617; 634; 656; 752; 853; 866; 910; 1141; 1333; 1384; 1423; 2007; 2037; 2064; 2106; 2347; 2419; 2470; 2549; 2771; 2855; 2878; 3017; 3140; 3223; 3490; 3677; 3881; 4080; 4652
NaeI	GCC!GGC	3	1999; 3282; 3565
NarI	GG!CGCC	1	2780
NciI	CC!SGG	5	644; 2784; 2944; 3557; 4321
NcoI	C!CATGG	3	360; 2509; 3212
NdeI	CA!TATG	1	234

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeII	!GATC	24	585; 670; 686; 748; 832; 1201; 1285; 1437; 2617; 2621; 2640; 2951; 3029; 3110; 3119; 3197; 3573; 3589; 3948; 3960; 4038; 4046; 4057; 4132
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	1997; 3280; 3563
NheI	G!CTAGC	1	591
NlaIII	CATG!	22	304; 364; 599; 707; 938; 968; 1163; 1358; 1403; 2210; 2350; 2422; 2513; 2654; 2999; 3185; 3216; 3242; 3598; 3982; 4702; 4753
NlaIV	GGN!NCC	17	467; 651; 688; 1277; 1935; 1956; 1968; 2159; 2320; 2392; 2781; 2816; 3664; 3743; 3788; 4631; 4670
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1612; 1927; 3519
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 4591
Nli3877I	CYCGR!G	2	931; 973
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2569; 3005
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	618; 2534
NmeDI	RCCGGYNNNNNNN!	6	704; 864; 2009; 3111; 3292; 3575
NmeDI	!NNNNNNNNNNNNRCCGGY	6	679; 839; 1984; 3086; 3267; 3550
NmuCI	!GTSAC	4	884; 2069; 2900; 3206
NotI	GC!GGCCGC	1	1424
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2882
NsiI	ATGCA!T	3	2352; 2424; 4755
NspI	RCATG!Y	5	599; 2350; 2422; 3185; 4702
NspV	TT!CGAA	1	3462
OiiI	CACNN!NNGTG	2	882; 1059
PabI	GTA!C	11	220; 245; 300; 333; 384; 541; 1021; 1132; 1156; 1414; 3087
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2350; 2422; 3185
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	2	2206; 3978
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1265; 3745; 3848
PauI	G!CGCGC	1	662
PceI	AGG!CCT	1	2601
PciI	A!CATGT	1	4698
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3124; 3334
PcsI	WCGNNNN!NNNCGW	9	733; 1345; 1402; 3074; 3151; 3394; 3468; 3861; 4379
PctI	GAATGCN!	1	1531
PctI	G!CATTC	1	1624
PdiI	GCC!GGC	3	1999; 3282; 3565
PdmI	GAANN!NNTTC	1	948
PfeI	G!AWTC	5	3265; 3399; 3509; 3546; 4724
Pfi23II	C!GTACG	0	
PfifiI	GACN!NNGTC	1	2898
PfimiI	CCANNNN!NTGG	3	680; 1124; 1400
PfoI	T!CCNGGA	4	982; 1003; 1363; 3555
PhoI	GG!CC	28	84; 277; 642; 775; 875; 1117; 1173; 1183; 1239; 1276; 1426; 1746; 1888; 2543; 2549; 2558; 2601; 2688; 2862; 3253; 3280; 3789; 3846; 3879; 4224; 4658; 4676; 4687
PinAI	A!CCGGT	1	692
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	3	1165; 1348; 3161
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2726; 2981
PleI	GAGTCNNNN!	3	1376; 1831; 2263
PleI	!NNNNNGACTC	5	404; 1425; 1839; 3445; 4322
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1862
PpiI	!NNNNNNNGAGNNNNNGTTC	4	708; 822; 1026; 3992
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	4	740; 854; 1058; 4024

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1830
Ppsi	GAGTCNNNN!	3	1376; 1831; 2263
Ppsi	!NNNNNGACTC	5	404; 1425; 1839; 3445; 4322
Ppu10I	A!TGCAT	3	2348; 2420; 4751
Ppu21I	YAC!GTR	3	340; 1896; 3084
PpuMI	RG!GWCCY	0	
Psci	A!CATGT	1	4698
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1563; 1768
Psp03I	GGWC!C	3	1334; 3299; 3744
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	21	88; 281; 870; 880; 897; 982; 1003; 1057; 1111; 1183; 1264; 1363; 2314; 2369; 2386; 3165; 3744; 3847; 4537; 4550; 4671
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	1	884
PspGI	!CCWGG	21	88; 281; 870; 880; 897; 982; 1003; 1057; 1111; 1183; 1264; 1363; 2314; 2369; 2386; 3165; 3744; 3847; 4537; 4550; 4671
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	17	467; 651; 688; 1277; 1935; 1956; 1968; 2159; 2320; 2392; 2781; 2816; 3664; 3743; 3788; 4631; 4670
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 2510; 3509
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	2	1247; 2912
PspPI	G!GNCC	13	83; 276; 641; 874; 1115; 1275; 1331; 1887; 3296; 3741; 3787; 3845; 3878
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNNNN!	3	2333; 2405; 3911
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	3	885; 2246; 3441
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
Pssi	RGGNC!CY	1	3881
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	2	3881; 4289
PsuI	R!GATCY	11	585; 670; 686; 1201; 2951; 3197; 3589; 3948; 3960; 4046; 4057
PsyI	GACN!NNGTC	1	2898
PteI	G!CGCGC	1	662
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1235; 2278; 2886
RcaI	T!CATGA	2	2206; 3978
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3295
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNNNN!	1	1509
RleAI	!NNNNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	1	602
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	11	219; 244; 299; 332; 383; 540; 1020; 1131; 1155; 1413; 3086
RsaNI	G!TAC	11	218; 243; 298; 331; 382; 539; 1019; 1130; 1154; 1412; 3085
RseI	CAYNN!NNRTG	5	365; 882; 939; 1059; 3217
RsrII	CG!GWCCG	1	3296
Rsr2I	CG!GWCCG	1	3296
SacI	GAGCT!C	0	
SacII	CCGC!GG	1	1031
SalI	G!TCGAC	0	
SapI	GCTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SapI	!NNNNGAAGAGC	2	3124; 3334
SaqAI	T!TAA	15	7; 1481; 1542; 1663; 1684; 1695; 1707; 1718; 1735; 1833; 2104; 3923; 3937; 3942; 3994
SatI	GC!NGC	40	612; 615; 618; 621; 648; 660; 861; 1031; 1223; 1226; 1233; 1310; 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
Sau96I	G!GNCC	13	83; 276; 641; 874; 1115; 1275; 1331; 1887; 3296; 3741; 3787; 3845; 3878
Sau3AI	!GATC	24	585; 670; 686; 748; 832; 1201; 1285; 1437; 2617; 2621; 2640; 2951; 3029; 3110; 3119; 3197; 3573; 3589; 3948; 3960; 4038; 4046; 4057; 4132
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	1377; 1832; 2264
SchI	!NNNNGACTC	5	404; 1425; 1839; 3445; 4322
SciI	CTC!GAG	0	
ScrFI	CC!NGG	26	90; 283; 644; 872; 882; 899; 984; 1005; 1059; 1113; 1185; 1266; 1365; 2316; 2371; 2388; 2784; 2944; 3167; 3557; 3746; 3849; 4321; 4539; 4552; 4673
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	1010; 2358; 2430; 2599; 4541
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	1342; 2935; 3420
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	14	742; 772; 871; 934; 1264; 1363; 1971; 2726; 2819; 2893; 3083; 3145; 3855; 4388
SelI	!CGCG	21	58; 660; 662; 791; 1028; 1067; 1346; 1427; 1702; 2078; 2098; 2122; 2153; 2844; 3145; 3583; 3667; 3730; 3799; 4072; 4653
SetI	ASST!	62	125; 137; 178; 261; 308; 342; 447; 552; 568; 724; 757; 769; 829; 862; 1039; 1078; 1153; 1237; 1261; 1306; 1311; 1411; 1470; 1491; 1500; 1512; 1561; 1728; 1843; 1855; 1898; 1935; 1985; 2008; 2132; 2280; 2375; 2568; 2681; 2809; 2888; 2899; 2971; 3042; 3086; 3346; 3492; 3536; 3867; 3898; 3957; 4000; 4143; 4164; 4263; 4400; 4415; 4434; 4446; 4490; 4536; 4587
SexAI	A!CCWGGT	1	2369
SfaI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	742; 913; 1596; 2359; 2431; 3079; 3143; 3418
SfaNI	!NNNNNNNNNGATGC	5	357; 2738; 2993; 3209; 4601
SfcI	C!TRYAG	3	2115; 4242; 4433
SfiI	GGCCNNNN!NGGCC	1	2555
SfoI	GGC!GCC	1	2781
Sfr274I	C!TCGAG	0	
Sfr303I	CCGC!GG	1	1031
SfuI	TT!CGAA	1	3462
SgeI	CNNGNNNNNNNNN!	195	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; 836; 865; 878; 893; 906; 920; 939; 968; 981; 995; 1016; 1034; 1058; 1071; 1085; 1106; 1124; 1163; 1176; 1196; 1211; 1229; 1248; 1262; 1277; 1290; 1316; 1340; 1357; 1376; 1407; 1440; 1487; 1516; 1558; 1641; 1715; 1799; 1821; 1853; 1890; 1908; 1927; 1942; 1984; 2001; 2018; 2053; 2067; 2084; 2106; 2130; 2154; 2219; 2233; 2271; 2287; 2327; 2340; 2359; 2382; 2399; 2412; 2431; 2461; 2482; 2499; 2522; 2557; 2584; 2615; 2637; 2663; 2685; 2704; 2732; 2768; 2787; 2810; 2824; 2844; 2857; 2871; 2890; 2904; 2923; 2955; 2969; 2982; 3008; 3039; 3052; 3069; 3086; 3100; 3117; 3135; 3150; 3178; 3194; 3213; 3235; 3251; 3274; 3293; 3318; 3337; 3357; 3384; 3408; 3441; 3460; 3488; 3502; 3568; 3592; 3607; 3630; 3651; 3668; 3716; 3743; 3757; 3786; 3810; 3843; 3860; 3880; 3893; 3906; 3964; 3991; 4010; 4040; 4065; 4085; 4099; 4124; 4142; 4179; 4217; 4246; 4274; 4288; 4308; 4323; 4344; 4358; 4377; 4395; 4411; 4451; 4471; 4498; 4516; 4537; 4550; 4563; 4580; 4604; 4627; 4659; 4684; 4711; 4733

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	168	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; 880; 905; 942; 969; 990; 1008; 1032; 1054; 1071; 1098; 1137; 1155; 1185; 1203; 1222; 1245; 1264; 1290; 1314; 1331; 1350; 1381; 1414; 1461; 1490; 1532; 1615; 1689; 1773; 1795; 1827; 1864; 1882; 1901; 1958; 1975; 1992; 2027; 2045; 2065; 2085; 2104; 2128; 2193; 2245; 2301; 2333; 2356; 2373; 2405; 2435; 2456; 2473; 2496; 2531; 2558; 2589; 2611; 2637; 2659; 2678; 2706; 2742; 2761; 2784; 2805; 2823; 2840; 2864; 2897; 2929; 2956; 2982; 3013; 3043; 3060; 3086; 3109; 3130; 3152; 3172; 3192; 3209; 3248; 3267; 3292; 3311; 3331; 3358; 3382; 3415; 3434; 3462; 3484; 3542; 3566; 3585; 3604; 3625; 3642; 3690; 3717; 3737; 3760; 3784; 3817; 3834; 3854; 3880; 3938; 3965; 3984; 4014; 4039; 4059; 4098; 4116; 4153; 4191; 4220; 4248; 4269; 4297; 4318; 4351; 4369; 4425; 4445; 4472; 4490; 4511; 4537; 4554; 4578; 4601; 4633; 4658; 4685; 4707; 4736
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; 1927; 3714; 4507
SimI	!GACCC	5	106; 1024; 3208; 3776; 4024
SinI	G!GWCC	3	1331; 3296; 3741
Slal	C!TCGAG	0	
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 882; 939; 1059; 3217
SmlI	C!TYRAG	5	1662; 3171; 4053; 4330; 4592
SmoI	C!TYRAG	5	1662; 3171; 4053; 4330; 4592
SmuI	CCCGCNNNN!	11	93; 119; 286; 927; 1035; 1353; 2102; 2457; 2478; 3674; 3806
SmuI	!NNNNNNNGCGGG	7	616; 702; 2033; 2903; 3440; 3578; 3725
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2350; 2422; 3185
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	10	18; 1530; 1594; 1672; 1698; 1709; 2356; 2428; 2520; 3938
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2601
SsiI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 612; 660; 920; 1028; 1067; 1205; 1318; 1334; 1346; 1415; 1427; 2095; 2098; 2112; 2202; 2450; 2462; 2471; 2483; 2493; 2504; 2550; 2689; 2752; 3254; 3299; 3365; 3391; 3516; 3519; 3667; 3799; 4106; 4250; 4746
SsiI	G!CGG	31	370; 403; 528; 623; 647; 709; 793; 1030; 1222; 1225; 1423; 2040; 2067; 2155; 2265; 2846; 2910; 3011; 3014; 3294; 3349; 3447; 3585; 3732; 3872; 4115; 4360; 4481; 4500; 4627; 4655
SspI	AAT!ATT	2	1688; 2241
SspDI	G!GCGCC	1	2779
SspD5I	GGTGANNNNNNNN!	7	376; 807; 896; 1049; 1073; 3851; 3967
SspD5I	!NNNNNNNNNTCACC	2	1896; 2957
SstI	GAGCT!C	0	
SstII	CCGC!GG	1	1031
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	25	92; 118; 285; 650; 748; 871; 926; 934; 976; 1034; 1171; 1285; 1352; 1979; 2101; 2456; 2477; 2790; 3193; 3332; 3403; 3673; 3805; 4035; 4473
Sth132I	!NNNNNNNNCCGGG	20	15; 407; 470; 615; 701; 1980; 2032; 2133; 2860; 2902; 2935; 3439; 3548; 3577; 3724; 3828; 3859; 4312; 4356; 4564
Sth302II	CC!GG	19	645; 694; 854; 1999; 2686; 2763; 2785; 2813; 2944; 3034; 3101; 3282; 3557; 3565; 3657; 4131; 4321; 4347; 4494
StrI	C!TCGAG	0	
StsI	GGATGNNNNNNNNNN!	4	2648; 3105; 3130; 3584
StsI	!NNNNNNNNNNNNNNCATCC	4	890; 965; 1094; 2452
StuI	AGG!CCT	1	2601
StyI	C!CWWGG	5	360; 2509; 2602; 3212; 3617

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StyD4I	!CCNGG	26	88; 281; 642; 870; 880; 897; 982; 1003; 1057; 1111; 1183; 1264; 1363; 2314; 2369; 2386; 2782; 2942; 3165; 3555; 3744; 3847; 4319; 4537; 4550; 4671
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	13	76; 198; 269; 543; 581; 1871; 3160; 3276; 3384; 3707; 4198; 4668; 4739
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 769; 1153; 1261; 1843; 1855; 1898; 2008; 2899; 3086; 3867; 4000
TaqI	T!CGA	15	751; 1045; 1072; 1216; 1929; 2620; 2893; 3049; 3073; 3109; 3271; 3462; 3507; 3762; 4600
TaqII	GACCGANNNNNNNNNN!	3	1800; 2817; 3485
TaqII	!NNNNNNNNNTCGGTC	1	3729
TaqII	CACCCANNNNNNNNNN!	1	1407
TaqII	!NNNNNNNNNTGGGTG	3	172; 2684; 3276
TasI	!AATT	10	18; 1530; 1594; 1672; 1698; 1709; 2356; 2428; 2520; 3938
TatI	W!GTACW	7	217; 297; 330; 381; 1018; 1129; 1153
TauI	GCSG!C	22	614; 650; 662; 1033; 1225; 1228; 1429; 2100; 2114; 2552; 2691; 2754; 2849; 3014; 3017; 3256; 3352; 3393; 3521; 3875; 4503; 4658
TfiI	G!AWTC	5	3265; 3399; 3509; 3546; 4724
TliI	C!TCGAG	0	
TruII	T!TAA	15	7; 1481; 1542; 1663; 1684; 1695; 1707; 1718; 1735; 1833; 2104; 3923; 3937; 3942; 3994
Tru9I	T!TAA	15	7; 1481; 1542; 1663; 1684; 1695; 1707; 1718; 1735; 1833; 2104; 3923; 3937; 3942; 3994
TscAI	CASTGNN!	7	661; 915; 1626; 2909; 4019; 4290; 4303
TseI	G!CWGC	19	614; 617; 620; 860; 1232; 1309; 1556; 2075; 2740; 2841; 2883; 2924; 3017; 3404; 3857; 4083; 4289; 4292; 4357
TsoI	TARCCANNNNNNNNNN!	2	1752; 2099
TsoI	!NNNNNNNNNTGGYTA	2	1557; 3309
Tsp45I	!GTSAC	4	884; 2069; 2900; 3206
Tsp509I	!AATT	10	18; 1530; 1594; 1672; 1698; 1709; 2356; 2428; 2520; 3938
TspDTI	ATGAANNNNNNNNNN!	4	951; 1538; 2839; 3543
TspDTI	!NNNNNNNNNTTCAT	5	26; 830; 3257; 3713; 3920
TspEI	!AATT	10	18; 1530; 1594; 1672; 1698; 1709; 2356; 2428; 2520; 3938
TspGWI	ACGGANNNNNNNNNN!	1	3655
TspGWI	!NNNNNNNNNTCCGT	1	590
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	7	661; 915; 1626; 2909; 4019; 4290; 4303
TstI	CACNNNNNTCCNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2898
Tth111II	CAARCANNNNNNNNNN!	1	4107
Tth111III	!NNNNNNNNNTGYTTG	3	3215; 4075; 4114
UnbI	!GGNCC	13	82; 275; 640; 873; 1114; 1274; 1330; 1886; 3295; 3740; 3786; 3844; 3877
Van9II	CCANNNN!NTGG	3	680; 1124; 1400
Vha464I	C!TTAAG	1	1662
VneI	G!TGCAC	2	768; 4384
VpaK11AI	!GGWCC	3	1330; 3295; 3740
VpaK11BI	G!GWCC	3	1331; 3296; 3741
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	3	1594; 1698; 1709
XbaI	T!CTAGA	1	1434
XceI	RCATG!Y	5	599; 2350; 2422; 3185; 4702
XcmI	CCANNNN!NNNTGG	2	1181; 1262
XhoI	C!TCGAG	0	
XhoII	R!GATCY	11	585; 670; 686; 1201; 2951; 3197; 3589; 3948; 3960; 4046; 4057
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	2602; 3617
XmiI	GT!MKAC	0	
XmnI	GAANN!NNTTC	1	948
XspI	C!TAG	8	592; 1435; 1629; 2047; 2603; 3618; 3952; 4205

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2352; 2424; 4755