

pTagCFP-N vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1537; 1742
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1825; 2781; 4570
AatI	AGG!CCT	1	2575
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	640
AccII	CG!CG	20	60; 651; 767; 1004; 1043; 1322; 1403; 1678; 2054; 2074; 2098; 2129; 2820; 3121; 3559; 3643; 3706; 3775; 4048; 4629
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2856
Acc36I	ACCTGCNNNN!	2	3022; 3472
Acc36I	!NNNNNNNNGCAGGT	1	2641
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	5	465; 645; 1907; 2753; 2788
AccB7I	CCANNNN!NTGG	2	1098; 1374
AccBSI	CCG!CTC	2	2178; 3367
AccBSI	GAG!CGG	3	683; 2014; 3421
AceIII	CAGCTCNNNNNNN!	1	1710
AceIII	!NNNNNNNNNNGAGCTG	6	552; 682; 715; 1036; 1269; 1369
AciI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 649; 894; 1002; 1041; 1179; 1292; 1308; 1320; 1389; 1401; 2069; 2072; 2086; 2176; 2424; 2436; 2445; 2457; 2467; 2478; 2524; 2663; 2726; 3228; 3273; 3339; 3365; 3490; 3493; 3641; 3773; 4080; 4224; 4720
AciI	G!CGG	30	370; 403; 528; 651; 683; 767; 1004; 1196; 1199; 1397; 2014; 2041; 2129; 2239; 2820; 2884; 2985; 2988; 3268; 3323; 3421; 3559; 3706; 3846; 4089; 4334; 4455; 4474; 4601; 4629
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	8	668; 2622; 2933; 3179; 3571; 3930; 4028; 4114
AclWI	!NNNNNGATCC	8	580; 655; 1170; 1254; 2998; 3542; 3929; 4026
AcoI	Y!GGCCR	7	747; 1211; 1398; 2660; 2834; 3225; 3252
AcsI	R!AATTY	4	629; 1568; 1672; 1683
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	1072; 2900; 3332
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	1332; 4130
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	8	122; 175; 258; 444; 785; 2754; 3456; 3535
AdeI	CACNNN!GTG	2	1332; 1870
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 647; 994; 1105; 1129; 1387; 3060
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	23	49; 683; 845; 872; 978; 1008; 1098; 1374; 1766; 2092; 2484; 2735; 3279; 3560; 3592; 3724; 3759; 3809; 3841; 4194; 4473; 4639; 4657
AfIII	C!TTAAG	1	1636
AfIII	A!CRYGT	2	1124; 4672
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	8	930; 1068; 1173; 2165; 2209; 2219; 2632; 4208
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	741
AjnI	!CCWGG	21	88; 281; 844; 854; 871; 956; 977; 1031; 1085; 1157; 1238; 1337; 2288; 2343; 2360; 3139; 3718; 3821; 4511; 4524; 4645
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	2	856; 1033
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	2	2328; 2400
AlfI	!NNNNNNNNNGCANNNNNTGC	2	2294; 2366
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	1836
AloI	!NNNNNNNGGANNNNNNGTTC	1	796
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	1	828
AloI	!NNNNNNNGAACNNNNNTCC	1	1804
AluI	AG!CT	22	566; 618; 624; 696; 729; 801; 834; 1050; 1209; 1283; 1383; 1533; 1700; 1957; 2252; 2540; 2860; 3318; 4115; 4372; 4418; 4508
AluBI	AG!CT	22	566; 618; 624; 696; 729; 801; 834; 1050; 1209; 1283; 1383; 1533; 1700; 1957; 2252; 2540; 2860; 3318; 4115; 4372; 4418; 4508
AlwI	GGATCNNNN!	8	668; 2622; 2933; 3179; 3571; 3930; 4028; 4114
AlwI	!NNNNNGATCC	8	580; 655; 1170; 1254; 2998; 3542; 3929; 4026
Alw21I	GWGCW!C	7	620; 746; 908; 1337; 2867; 3057; 4362
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	4	2178; 2596; 3615; 3743
Alw44I	G!TGCAC	2	742; 4358
AlwNI	CAGNNN!CTG	2	3855; 4263
Ama87I	C!YCGRG	4	613; 656; 901; 943
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNNN!TGC	4	885; 2322; 2394; 3856
ApaLI	G!TGCAC	2	742; 4358
ApeKI	G!CWGC	16	834; 1206; 1283; 1530; 2049; 2714; 2815; 2857; 2898; 2991; 3378; 3831; 4057; 4263; 4266; 4331
ApoI	R!AATTY	4	629; 1568; 1672; 1683
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3269
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	3063; 3716; 4554
AquI	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3153
AquI	!NNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	716; 2582
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	3324
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	24	586; 610; 661; 723; 807; 1176; 1260; 1412; 2592; 2596; 2615; 2926; 3004; 3085; 3094; 3172; 3548; 3564; 3923; 3935; 4013; 4021; 4032; 4107
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2872
Asp700I	GAANN!NNTTC	1	922
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	2576; 3591
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	26	597; 767; 937; 965; 1111; 1354; 2020; 2028; 2054; 2076; 2085; 2098; 2129; 2748; 2756; 2820; 2857; 3123; 3383; 3559; 3645; 4048; 4157; 4331; 4431; 4498
AspS9I	G!GNCC	13	83; 276; 654; 848; 1089; 1249; 1305; 1861; 3270; 3715; 3761; 3819; 3852
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 3436
AsuC2I	CC!SGG	6	657; 658; 2758; 2918; 3531; 4295
AsuHPI	GGTGANNNNNNNN!	7	376; 781; 870; 1023; 1047; 3825; 3941
AsuHPI	!NNNNNNNTCACC	2	1871; 2932
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	613; 656; 901; 943

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AvaII	G!GWCC	3	1305; 3270; 3715
AviII	TGC!GCA	1	2856
AvrII	C!CTAGG	2	2576; 3591
AxyI	CC!TNAGG	2	2234; 3866
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	657; 716; 746; 845; 1238; 2700; 2793; 4362
BalI	TGG!CCA	1	2836
BamHI	G!GATCC	1	660
BanI	G!GYRCC	5	465; 645; 1907; 2753; 2788
BanII	GRGCY!C	5	620; 657; 1945; 3119; 3829
BanIII	AT!CGAT	1	2594
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNNCTTC	0	
BarI	GTANNNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	2	1098; 1374
BauI	C!ACGAG	2	3472; 4499
BauI	C!TCGTG	1	3346
BbeI	GGCGC!C	1	2757
Bbr7I	GAAGACNNNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2324; 2396; 3159
BbvI	GCAGCNNNNNNNNNN!	7	1218; 1542; 2827; 2869; 3390; 3843; 4343
BbvI	!NNNNNNNNNNNNNGCTGC	8	821; 1270; 2036; 2701; 2885; 2978; 4044; 4250
Bbv12I	GWGCW!C	7	620; 746; 908; 1337; 2867; 3057; 4362
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	8	976; 1120; 1273; 1303; 1884; 2448; 2974; 3476
BccI	!NNNNNGATGG	4	1240; 1852; 2632; 3060
BceAI	ACGGCNNNNNNNNNNNN!	8	750; 810; 1002; 1092; 1170; 1386; 3180; 3667
BceAI	!NNNNNNNNNNNNNGCCGT	3	1895; 2713; 4172
Bcefi	ACGGCNNNNNNNNNNNN!	8	750; 810; 1002; 1092; 1170; 1386; 3180; 3667
Bcefi	!NNNNNNNNNNNNNGCCGT	3	1896; 2714; 4173
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2183; 2973; 4474
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	6	657; 658; 2758; 2918; 3531; 4295
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNNN!	2	1282; 4607
BdaI	!NNNNNNNNNNNTGANNNNNNNTCA	2	1248; 4573
BfaI	C!TAG	8	592; 1409; 1603; 2021; 2577; 3592; 3926; 4179
BfiI	ACTGGGNNNNN!	1	2703
BfiI	!NNNNCCCAGT	2	289; 2455
BfmI	C!TRYAG	4	634; 2089; 4216; 4407
BfoI	RGCGC!Y	8	598; 938; 1112; 1355; 2021; 2029; 2757; 4432
BfrI	C!TTAAG	1	1636
BfuI	GTATCCNNNNNN!	3	2183; 2973; 4474
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3022; 3472
BfuAI	!NNNNNNNNNGCAGGT	1	2641
BfuCI	!GATC	24	585; 609; 660; 722; 806; 1175; 1259; 1411; 2591; 2595; 2614; 2925; 3003; 3084; 3093; 3171; 3547; 3563; 3922; 3934; 4012; 4020; 4031; 4106
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2529
BglII	A!GATCT	1	609

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BisI	GC!NGC	35	835; 1005; 1197; 1200; 1207; 1284; 1398; 1401; 1531; 2050; 2072; 2086; 2524; 2663; 2715; 2726; 2816; 2821; 2858; 2899; 2986; 2992; 3228; 3324; 3365; 3379; 3493; 3832; 3847; 4058; 4264; 4267; 4332; 4475; 4630
BlnI	C!CTAGG	2	2576; 3591
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	35	836; 1006; 1198; 1201; 1208; 1285; 1399; 1402; 1532; 2051; 2073; 2087; 2525; 2664; 2716; 2727; 2817; 2822; 2859; 2900; 2987; 2993; 3229; 3325; 3366; 3380; 3494; 3833; 3848; 4059; 4265; 4268; 4333; 4476; 4631
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	1305; 3270; 3715
Bme1390I	CC!NGG	27	90; 283; 657; 658; 846; 856; 873; 958; 979; 1033; 1087; 1159; 1240; 1339; 2290; 2345; 2362; 2758; 2918; 3141; 3531; 3720; 3823; 4295; 4513; 4526; 4647
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	613; 656; 901; 943
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	741
BmgT120I	GG!NCC	13	84; 277; 655; 849; 1090; 1250; 1306; 1862; 3271; 3716; 3762; 3820; 3853
BmiI	GGN!NCC	18	467; 647; 655; 662; 1251; 1909; 1930; 1942; 2133; 2294; 2366; 2755; 2790; 3638; 3717; 3762; 4605; 4644
BmrI	ACTGGGNNNNN!	1	2703
BmrI	!NNNNCCCAGT	2	289; 2455
BmrFI	CC!NGG	27	90; 283; 657; 658; 846; 856; 873; 958; 979; 1033; 1087; 1159; 1240; 1339; 2290; 2345; 2362; 2758; 2918; 3141; 3531; 3720; 3823; 4295; 4513; 4526; 4647
BmsI	GCATCNNNNN!	8	716; 887; 1570; 2333; 2405; 3053; 3117; 3392
BmsI	!NNNNNNNNNGATGC	5	357; 2712; 2967; 3183; 4575
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2703
BmuI	!NNNNCCCAGT	2	289; 2455
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2543; 3442
BpI	!NNNNNNNNGAGNNNNNCTC	2	2511; 3410
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	4	823; 1180; 1360; 3594
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	3537
Bpu10I	CC!TNAGC	1	1279
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 3436
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4048; 4587
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	604; 3130; 4289
BpuMI	CC!SGG	6	657; 658; 2758; 2918; 3531; 4295
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3743
Bsa29I	AT!CGAT	1	2594
BsaAI	YAC!GTR	3	340; 1870; 3058
BsaBI	GATNN!NNATC	3	1264; 1416; 2613
BsaHI	GR!CGYC	8	122; 175; 258; 444; 785; 2754; 3456; 3535
BsaJI	C!CNNGG	27	360; 649; 656; 844; 854; 872; 944; 1002; 1031; 1086; 1238; 1239; 1368; 2288; 2360; 2483; 2518; 2527; 2576; 2917; 3186; 3591; 3718; 3719; 3821; 3822; 4512
BsaMI	GAATGCN!	1	1505
BsaMI	G!CATTC	1	1598
BsaWI	W!CCGGW	6	600; 666; 2785; 3629; 4319; 4466
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1834
BsaXI	!NNNNNNNNGGAGNNNNNNGT	1	796
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	1	826
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1804

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	1755; 3662
Bsc4I	CCNNNNN!NNGG	23	49; 683; 845; 872; 978; 1008; 1098; 1374; 1766; 2092; 2484; 2735; 3279; 3560; 3592; 3724; 3759; 3809; 3841; 4194; 4473; 4639; 4657
BscAI	GCATCNNNN!	8	715; 886; 1569; 2332; 2404; 3052; 3116; 3391
BscAI	!NNNNNGATGC	5	360; 2715; 2970; 3186; 4578
BseI	ACTGGN!	3	2698; 2899; 4145
BseI	C!CAGT	7	295; 882; 1287; 1783; 2461; 4257; 4270
Bse8I	GATNN!NNATC	3	1264; 1416; 2613
Bse2II	CC!TNAGG	2	2234; 3866
Bse118I	R!CCGGY	6	666; 826; 1971; 3073; 3254; 3537
BseAI	T!CCGGA	0	
BseBI	CC!WGG	21	90; 283; 846; 856; 873; 958; 979; 1033; 1087; 1159; 1240; 1339; 2290; 2345; 2362; 3141; 3720; 3823; 4513; 4526; 4647
BseCI	AT!CGAT	1	2594
BseDI	C!CNNGG	27	360; 649; 656; 844; 854; 872; 944; 1002; 1031; 1086; 1238; 1239; 1368; 2288; 2360; 2483; 2518; 2527; 2576; 2917; 3186; 3591; 3718; 3719; 3821; 3822; 4512
Bse3DI	GCAATGNN!	1	2987
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2614; 3071; 3096; 3550
BseGI	!CATCC	5	878; 953; 968; 1082; 2440
BseJI	GATNN!NNATC	3	1264; 1416; 2613
BseLI	CCNNNNN!NNGG	23	49; 683; 845; 872; 978; 1008; 1098; 1374; 1766; 2092; 2484; 2735; 3279; 3560; 3592; 3724; 3759; 3809; 3841; 4194; 4473; 4639; 4657
BseMI	GCAATGNN!	1	2987
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	620; 3880
BseMII	!NNNNNNNNCTGAG	6	1270; 2225; 2527; 3408; 3980; 4389
BseNI	ACTGGN!	3	2698; 2899; 4145
BseNI	C!CAGT	7	295; 882; 1287; 1783; 2461; 4257; 4270
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	706; 2572
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	8	657; 716; 746; 845; 1238; 2700; 2793; 4362
BseXI	GCAGCNNNNNNNN!	7	1218; 1542; 2827; 2869; 3390; 3843; 4343
BseXI	!NNNNNNNNNNNGCTGC	8	821; 1270; 2036; 2701; 2885; 2978; 4044; 4250
BseX3I	C!GGCCG	2	1398; 2660
BseYI	C!CCAGC	3	2297; 2369; 4368
BseYI	G!CTGGG	1	3258
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1225
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	804
Bsh1236I	CG!CG	20	60; 651; 767; 1004; 1043; 1322; 1403; 1678; 2054; 2074; 2098; 2129; 2820; 3121; 3559; 3643; 3706; 3775; 4048; 4629
Bsh1285I	CGRY!CG	4	671; 1401; 2663; 4338
BshFI	GG!CC	28	84; 277; 655; 749; 849; 1091; 1147; 1157; 1213; 1250; 1400; 1720; 1862; 2517; 2523; 2532; 2575; 2662; 2836; 3227; 3254; 3763; 3820; 3853; 4198; 4632; 4650; 4661
BshNI	G!GYRCC	5	465; 645; 1907; 2753; 2788
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	2594
BsiEI	CGRY!CG	4	671; 1401; 2663; 4338
BsiHKAI	GWGCW!C	7	620; 746; 908; 1337; 2867; 3057; 4362
BsiHKCI	C!YCGRG	4	613; 656; 901; 943
BsiSI	C!CGG	20	601; 657; 667; 827; 1972; 2659; 2736; 2758; 2786; 2917; 3007; 3074; 3255; 3530; 3538; 3630; 4104; 4294; 4320; 4467
BsiWI	C!GTACG	0	
BslI	CCNNNNN!NNGG	23	49; 683; 845; 872; 978; 1008; 1098; 1374; 1766; 2092; 2484; 2735; 3279; 3560; 3592; 3724; 3759; 3809; 3841; 4194; 4473; 4639; 4657
BslFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2905; 3437; 3546
BslFI	!NNNNNNNNNNNNNGTCCC	4	2270; 2342; 2406; 3701
BsmI	GAATGCN!	1	1505
BsmI	G!CATTC	1	1598

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	4	2178; 2596; 3615; 3743
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2905; 3437; 3546
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2270; 2342; 2406; 3701
BsnI	GG!CC	28	84; 277; 655; 749; 849; 1091; 1147; 1157; 1213; 1250; 1400; 1720; 1862; 2517; 2523; 2532; 2575; 2662; 2836; 3227; 3254; 3763; 3820; 3853; 4198; 4632; 4650; 4661
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3743
BsoBI	C!YCGRG	4	613; 656; 901; 943
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	360; 2483; 3186
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3557
Bsp24I	!NNNNNNCCANNNNNNGTC	2	3978; 4156
Bsp24I	CCANNNNNNGTCNNNNNNNNNNNN!	2	4010; 4188
Bsp24I	!NNNNNNNGACNNNNNNTGG	2	257; 3525
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 3436
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	24	585; 609; 660; 722; 806; 1175; 1259; 1411; 2591; 2595; 2614; 2925; 3003; 3084; 3093; 3171; 3547; 3563; 3922; 3934; 4012; 4020; 4031; 4106
Bsp1286I	GDGCH!C	16	620; 657; 716; 746; 845; 908; 1238; 1337; 1945; 2700; 2793; 2867; 3057; 3119; 3829; 4362
Bsp1407I	T!GTACA	1	1127
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 649; 894; 1002; 1041; 1179; 1292; 1308; 1320; 1389; 1401; 2069; 2072; 2086; 2176; 2424; 2436; 2445; 2457; 2467; 2478; 2524; 2663; 2726; 3228; 3273; 3339; 3365; 3490; 3493; 3641; 3773; 4080; 4224; 4720
BspACI	G!CGG	30	370; 403; 528; 651; 683; 767; 1004; 1196; 1199; 1397; 2014; 2041; 2129; 2239; 2820; 2884; 2985; 2988; 3268; 3323; 3421; 3559; 3706; 3846; 4089; 4334; 4455; 4474; 4601; 4629
BspCNI	CTCAGNNNNNNNN!	2	619; 3879
BspCNI	!NNNNNNNCTGAG	6	1271; 2226; 2528; 3409; 3981; 4390
BspDI	AT!CGAT	1	2594
BspD6I	GACTCNNNN!	6	418; 612; 1413; 1827; 3433; 4310
BspD6I	!NNNNNGAGTC	3	1335; 1790; 2222
BspEI	T!CCGGA	0	
BspFNI	CG!CG	20	60; 651; 767; 1004; 1043; 1322; 1403; 1678; 2054; 2074; 2098; 2129; 2820; 3121; 3559; 3643; 3706; 3775; 4048; 4629
BspHI	T!CATGA	2	2180; 3952
BspLI	GGN!NCC	18	467; 647; 655; 662; 1251; 1909; 1930; 1942; 2133; 2294; 2366; 2755; 2790; 3638; 3717; 3762; 4605; 4644
BspMI	ACCTGCNNNN!	2	3022; 3472
BspMI	!NNNNNNNNGCAGGT	1	2641
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	668; 2622; 2933; 3179; 3571; 3930; 4028; 4114
BspPI	!NNNNNGATCC	8	580; 655; 1170; 1254; 2998; 3542; 3929; 4026
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3098; 3308
BspTI	C!TTAAG	1	1636
BspT104I	TT!CGAA	2	627; 3436
BspT107I	G!GYRCC	5	465; 645; 1907; 2753; 2788
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3743
BsrI	ACTGGN!	3	2698; 2899; 4145
BsrI	C!CAGT	7	295; 882; 1287; 1783; 2461; 4257; 4270
BsrBI	CCG!CTC	2	2178; 3367
BsrBI	GAG!CGG	3	683; 2014; 3421
BsrDI	GCAATGNN!	1	2987
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	6	666; 826; 1971; 3073; 3254; 3537
BsrGI	T!GTACA	1	1127

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	ACTGGN!	3	2698; 2899; 4145
BsrSI	C!CAGT	7	295; 882; 1287; 1783; 2461; 4257; 4270
BssAI	R!CCGGY	6	666; 826; 1971; 3073; 3254; 3537
BssECI	C!CNNGG	27	360; 649; 656; 844; 854; 872; 944; 1002; 1031; 1086; 1238; 1239; 1368; 2288; 2360; 2483; 2518; 2527; 2576; 2917; 3186; 3591; 3718; 3719; 3821; 3822; 4512
BssHII	G!CGCGC	0	
BssKI	!CCNGG	27	88; 281; 655; 656; 844; 854; 871; 956; 977; 1031; 1085; 1157; 1238; 1337; 2288; 2343; 2360; 2756; 2916; 3139; 3529; 3718; 3821; 4293; 4511; 4524; 4645
BssMI	!GATC	24	585; 609; 660; 722; 806; 1175; 1259; 1411; 2591; 2595; 2614; 2925; 3003; 3084; 3093; 3171; 3547; 3563; 3922; 3934; 4012; 4020; 4031; 4106
BssNI	GR!CGYC	8	122; 175; 258; 444; 785; 2754; 3456; 3535
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3472; 4499
BssSI	C!TCGTG	1	3346
BssTII	C!CWWGG	5	360; 2483; 2576; 3186; 3591
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	3	2221; 3098; 3308
Bst98I	C!TTAAG	1	1636
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 785; 2754; 3456; 3535
BstAFI	C!TTAAG	1	1636
BstAPI	GCANNNN!NTGC	4	884; 2321; 2393; 3855
BstAUI	T!GTACA	1	1127
BstBI	TT!CGAA	2	627; 3436
Bst2BI	C!ACGAG	2	3472; 4499
Bst2BI	C!TCGTG	1	3346
BstBAI	YAC!GTR	3	340; 1870; 3058
Bst4CI	ACN!GT	14	76; 198; 269; 543; 581; 645; 1845; 3134; 3250; 3358; 3681; 4172; 4642; 4713
BstC8I	GCN!NGC	36	86; 279; 593; 653; 705; 763; 799; 832; 894; 1204; 1211; 1320; 1973; 2016; 2030; 2303; 2322; 2375; 2394; 2648; 2834; 3053; 3119; 3125; 3157; 3198; 3202; 3256; 3539; 3726; 3773; 3829; 3851; 4062; 4622; 4659
BstDEI	C!TNAG	8	606; 1279; 2234; 2536; 3417; 3866; 3989; 4398
BstDSI	C!CRYGG	6	360; 649; 1002; 1368; 2483; 3186
BstEII	G!GTNACC	1	858
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2614; 3071; 3096; 3550
BstF5I	!CATCC	5	878; 953; 968; 1082; 2440
BstFNI	CG!CG	20	60; 651; 767; 1004; 1043; 1322; 1403; 1678; 2054; 2074; 2098; 2129; 2820; 3121; 3559; 3643; 3706; 3775; 4048; 4629
BstH2I	RGCGC!Y	8	598; 938; 1112; 1355; 2021; 2029; 2757; 4432
BstHHI	GCG!C	26	597; 767; 937; 965; 1111; 1354; 2020; 2028; 2054; 2076; 2085; 2098; 2129; 2748; 2756; 2820; 2857; 3123; 3383; 3559; 3645; 4048; 4157; 4331; 4431; 4498
BstKTI	GAT!C	24	588; 612; 663; 725; 809; 1178; 1262; 1414; 2594; 2598; 2617; 2928; 3006; 3087; 3096; 3174; 3550; 3566; 3925; 3937; 4015; 4023; 4034; 4109
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	4	2178; 2596; 3615; 3743
BstMBI	!GATC	24	585; 609; 660; 722; 806; 1175; 1259; 1411; 2591; 2595; 2614; 2925; 3003; 3084; 3093; 3171; 3547; 3563; 3922; 3934; 4012; 4020; 4031; 4106
BstMCI	CGRY!CG	4	671; 1401; 2663; 4338
BstMWI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 726; 827; 840; 884; 1115; 1307; 1358; 1397; 1981; 2011; 2038; 2080; 2321; 2393; 2444; 2523; 2745; 2829; 2852; 2991; 3114; 3197; 3464; 3651; 3855; 4054; 4626
BstNI	CC!WGG	21	90; 283; 846; 856; 873; 958; 979; 1033; 1087; 1159; 1240; 1339; 2290; 2345; 2362; 3141; 3720; 3823; 4513; 4526; 4647
BstNSI	RCATG!Y	4	2324; 2396; 3159; 4676
BstOI	CC!WGG	21	90; 283; 846; 856; 873; 958; 979; 1033; 1087; 1159; 1240; 1339; 2290; 2345; 2362; 3141; 3720; 3823; 4513; 4526; 4647
BstPI	G!GTNACC	1	858

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	27	88; 281; 655; 656; 844; 854; 871; 956; 977; 1031; 1085; 1157; 1238; 1337; 2288; 2343; 2360; 2756; 2916; 3139; 3529; 3718; 3821; 4293; 4511; 4524; 4645
BstSFI	C!TRYAG	4	634; 2089; 4216; 4407
BstSLI	GKGCMI!C	8	657; 716; 746; 845; 1238; 2700; 2793; 4362
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	20	60; 651; 767; 1004; 1043; 1322; 1403; 1678; 2054; 2074; 2098; 2129; 2820; 3121; 3559; 3643; 3706; 3775; 4048; 4629
Bst2UI	CC!WGG	21	90; 283; 846; 856; 873; 958; 979; 1033; 1087; 1159; 1240; 1339; 2290; 2345; 2362; 3141; 3720; 3823; 4513; 4526; 4647
BstV1I	GCAGCNNNNNNNN!	7	1218; 1542; 2827; 2869; 3390; 3843; 4343
BstV1I	!NNNNNNNNNNNGCTGC	8	821; 1270; 2036; 2701; 2885; 2978; 4044; 4250
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	11	585; 609; 660; 1175; 2925; 3171; 3563; 3922; 3934; 4020; 4031
BstYI	R!GATCY	11	585; 609; 660; 1175; 2925; 3171; 3563; 3922; 3934; 4020; 4031
BstZI	C!GGCCG	2	1398; 2660
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2183; 2973; 4474
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2594
Bsu36I	CC!TNAGG	2	2234; 3866
BsuRI	GG!CC	28	84; 277; 655; 749; 849; 1091; 1147; 1157; 1213; 1250; 1400; 1720; 1862; 2517; 2523; 2532; 2575; 2662; 2836; 3227; 3254; 3763; 3820; 3853; 4198; 4632; 4650; 4661
BsuTUI	AT!CGAT	1	2594
BtgI	C!CRYGG	6	360; 649; 1002; 1368; 2483; 3186
BtgZI	GCGATGNNNNNNNNNN!	3	1259; 1871; 3206
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3025; 3369
BthCI	GCNG!C	35	837; 1007; 1199; 1202; 1209; 1286; 1400; 1403; 1533; 2052; 2074; 2088; 2526; 2665; 2717; 2728; 2818; 2823; 2860; 2901; 2988; 2994; 3230; 3326; 3367; 3381; 3495; 3834; 3849; 4060; 4266; 4269; 4334; 4477; 4632
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	741
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1593
BtsCI	GGATGNN!	4	2614; 3071; 3096; 3550
BtsCI	!CATCC	5	878; 953; 968; 1082; 2440
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3022; 3472
BveI	!NNNNNNNNGCAGGT	1	2641
Cac8I	GCN!NGC	36	86; 279; 593; 653; 705; 763; 799; 832; 894; 1204; 1211; 1320; 1973; 2016; 2030; 2303; 2322; 2375; 2394; 2648; 2834; 3053; 3119; 3125; 3157; 3198; 3202; 3256; 3539; 3726; 3773; 3829; 3851; 4062; 4622; 4659
CaiI	CAGNNN!CTG	2	3855; 4263
CciI	T!CATGA	2	2180; 3952
CciNI	GC!GGCCGC	1	1398
CdiI	CATC!G	7	352; 711; 1191; 3043; 3048; 3246; 3387
CdiI	C!GATG	3	1245; 1857; 3192
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4626
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2415; 2457
CelII	GC!TNAGC	0	
CfoI	GCG!C	26	597; 767; 937; 965; 1111; 1354; 2020; 2028; 2054; 2076; 2085; 2098; 2129; 2748; 2756; 2820; 2857; 3123; 3383; 3559; 3645; 4048; 4157; 4331; 4431; 4498
CfrI	Y!GGCCR	7	747; 1211; 1398; 2660; 2834; 3225; 3252
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	6	666; 826; 1971; 3073; 3254; 3537
Cfr13I	G!GNCC	13	83; 276; 654; 848; 1089; 1249; 1305; 1861; 3270; 3715; 3761; 3819; 3852
Cfr42I	CCG!GG	2	652; 1005

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
ChaI	GATC!	24	589; 613; 664; 726; 810; 1179; 1263; 1415; 2595; 2599; 2618; 2929; 3007; 3088; 3097; 3175; 3551; 3567; 3926; 3938; 4016; 4024; 4035; 4110
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	4	2571; 4011; 4111; 4189
CjeI	!NNNNNNNNNACNNNNNTGG	7	64; 257; 2238; 2333; 3525; 4075; 4630
CjeI	ACNNNNNTTGGNNNNNNNNNNNNNN!	7	98; 291; 2272; 2367; 3559; 4109; 4664
CjeI	!NNNNNNNNCCANNNNNNGT	4	2537; 3977; 4077; 4155
CjePI	CCANNNNNNTTCNNNNNNNNNNNNNN!	2	4011; 4189
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 3525; 4124
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 3558; 4157
CjePI	!NNNNNNNNCCANNNNNNTC	2	3978; 4156
Clal	AT!CGAT	1	2594
CpoI	CG!GWCCG	1	3270
CseI	GACGCNNNNN!	4	526; 793; 3464; 3543
CseI	!NNNNNNNNNNGCGTC	4	1032; 2087; 3982; 4560
CsiI	A!CCWGGT	1	2343
CspI	CG!GWCCG	1	3270
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 993; 1104; 1128; 1386; 3059
Csp45I	TT!CGAA	2	627; 3436
CspAI	A!CCGGT	1	666
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1094; 2034; 3643
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAI	C!ATG	21	301; 361; 678; 909; 939; 1134; 1329; 1374; 2181; 2321; 2393; 2484; 2625; 2970; 3156; 3187; 3213; 3569; 3953; 4673; 4724
CviJI	RG!CY	93	42; 84; 93; 277; 566; 618; 624; 655; 696; 729; 749; 801; 834; 849; 950; 1050; 1064; 1091; 1147; 1157; 1209; 1213; 1250; 1283; 1318; 1383; 1400; 1423; 1533; 1700; 1720; 1862; 1943; 1957; 1971; 2252; 2293; 2365; 2488; 2517; 2523; 2532; 2540; 2563; 2575; 2581; 2662; 2679; 2687; 2714; 2739; 2823; 2832; 2836; 2860; 2898; 2974; 2991; 3010; 3073; 3117; 3127; 3144; 3227; 3254; 3258; 3295; 3318; 3334; 3514; 3541; 3602; 3724; 3763; 3820; 3827; 3834; 3853; 3864; 4115; 4144; 4187; 4198; 4263; 4342; 4367; 4372; 4418; 4508; 4606; 4632; 4650; 4661
CviKI-1	RG!CY	93	42; 84; 93; 277; 566; 618; 624; 655; 696; 729; 749; 801; 834; 849; 950; 1050; 1064; 1091; 1147; 1157; 1209; 1213; 1250; 1283; 1318; 1383; 1400; 1423; 1533; 1700; 1720; 1862; 1943; 1957; 1971; 2252; 2293; 2365; 2488; 2517; 2523; 2532; 2540; 2563; 2575; 2581; 2662; 2679; 2687; 2714; 2739; 2823; 2832; 2836; 2860; 2898; 2974; 2991; 3010; 3073; 3117; 3127; 3144; 3227; 3254; 3258; 3295; 3318; 3334; 3514; 3541; 3602; 3724; 3763; 3820; 3827; 3834; 3853; 3864; 4115; 4144; 4187; 4198; 4263; 4342; 4367; 4372; 4418; 4508; 4606; 4632; 4650; 4661
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 993; 1104; 1128; 1386; 3059
DdeI	C!TNAG	8	606; 1279; 2234; 2536; 3417; 3866; 3989; 4398
DinI	GGC!GCC	1	2755
DpnI	GA!TC	24	587; 611; 662; 724; 808; 1177; 1261; 1413; 2593; 2597; 2616; 2927; 3005; 3086; 3095; 3173; 3549; 3565; 3924; 3936; 4014; 4022; 4033; 4108
DpnII	!GATC	24	585; 609; 660; 722; 806; 1175; 1259; 1411; 2591; 2595; 2614; 2925; 3003; 3084; 3093; 3171; 3547; 3563; 3922; 3934; 4012; 4020; 4031; 4106
DraI	TTT!AAA	3	1456; 3898; 3917
DraII	RG!GNCCY	1	3852
DraIII	CACNN!GTG	2	1332; 1870
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	4	266; 1016; 1328; 4234
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTT	0	
DrdI	GACNNN!NNGTC	3	1825; 2781; 4570
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1825; 2781; 4570
EaeI	Y!GGCCR	7	747; 1211; 1398; 2660; 2834; 3225; 3252

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EagI	C!GGCCG	2	1398; 2660
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2221; 3098; 3308
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	3	2221; 3098; 3308
EciI	GGCGGANNNNNNNNNN!	4	2254; 3283; 4470; 4616
EciI	!NNNNNNNNNTCCGCC	6	496; 1168; 1281; 2425; 2446; 2467
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	2	1398; 2660
Eco24I	GRGCY!C	5	620; 657; 1945; 3119; 3829
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	3743
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	1305; 3270; 3715
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1398; 2660
Eco57I	CTGAAGNNNNNNNNNNNNNN!	3	1072; 2900; 3332
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	1332; 4130
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	2	2234; 3866
Eco88I	C!YCGRG	4	613; 656; 901; 943
Eco91I	G!GTNACC	1	858
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	5	360; 2483; 2576; 3186; 3591
Eco147I	AGG!CCT	1	2575
EcoHI	!CCSGG	6	655; 656; 2756; 2916; 3529; 4293
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	7	823; 1072; 1180; 1360; 2900; 3332; 3594
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	1332; 3537; 4130
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	1	858
Eco0109I	RG!GNCCY	1	3852
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	21	88; 281; 844; 854; 871; 956; 977; 1031; 1085; 1157; 1238; 1337; 2288; 2343; 2360; 3139; 3718; 3821; 4511; 4524; 4645
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	360; 2483; 2576; 3186; 3591
EcoT22I	ATGCA!T	3	2326; 2398; 4729
EcoT38I	GRGCY!C	5	620; 657; 1945; 3119; 3829
Eco53kI	GAG!CTC	1	618
EgeI	GGC!GCC	1	2755
EheI	GGC!GCC	1	2755
ErhI	C!CWWGG	5	360; 2483; 2576; 3186; 3591
EsaBC3I	TC!GA	18	615; 628; 641; 726; 1020; 1047; 1191; 1904; 2595; 2868; 3024; 3048; 3084; 3246; 3437; 3482; 3737; 4575
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	21	304; 364; 681; 912; 942; 1137; 1332; 1377; 2184; 2324; 2396; 2487; 2628; 2973; 3159; 3190; 3216; 3572; 3956; 4676; 4727
Fail	YA!TR	57	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 910; 940; 1135; 1330; 1375; 1416; 1426; 1492; 1537; 1742; 2170; 2182; 2313; 2322; 2385; 2394; 2418; 2485; 2509; 2626; 2690; 2971; 2996; 3157; 3188; 3214; 3286; 3502; 3570; 3648; 3700; 3861; 3878; 3880; 3882; 3954; 4232; 4421; 4537; 4610; 4674; 4725
FalI	AAGNNNNCTTNNNNNNNNNNNN!	1	3094
FalI	!NNNNNNNNAAGNNNNNCTT	1	3062
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2905; 3437; 3546
FaqI	!NNNNNNNNNNNNNGTCCC	4	2270; 2342; 2406; 3701
FatI	!CATG	21	300; 360; 677; 908; 938; 1133; 1328; 1373; 2180; 2320; 2392; 2483; 2624; 2969; 3155; 3186; 3212; 3568; 3952; 4672; 4723
FauI	CCCGCNNNN!	11	93; 119; 286; 901; 1009; 1327; 2076; 2431; 2452; 3648; 3780
FauI	!NNNNNGCGGG	7	644; 676; 2007; 2877; 3414; 3552; 3699
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FblI	GT!MKAC	1	640
FmuI	GGNC!C	13	86; 279; 657; 851; 1092; 1252; 1308; 1864; 3273; 3718; 3764; 3822; 3855
Fnu4HI	GC!NGC	35	835; 1005; 1197; 1200; 1207; 1284; 1398; 1401; 1531; 2050; 2072; 2086; 2524; 2663; 2715; 2726; 2816; 2821; 2858; 2899; 2986; 2992; 3228; 3324; 3365; 3379; 3493; 3832; 3847; 4058; 4264; 4267; 4332; 4475; 4630
FokI	GGATGNNNNNNNNN!	4	2621; 3078; 3103; 3557
FokI	!NNNNNNNNNNNNNNCATCC	4	865; 940; 1069; 2427
FriOI	GRGCY!C	5	620; 657; 1945; 3119; 3829
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2856
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1409; 1603; 2021; 2577; 3592; 3926; 4179
FspEI	CCNNNNNNNNNNNN!	157	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 728; 763; 801; 837; 851; 867; 885; 906; 951; 970; 985; 1014; 1044; 1099; 1125; 1151; 1171; 1192; 1227; 1242; 1264; 1278; 1300; 1321; 1339; 1359; 1375; 1402; 1437; 1476; 1490; 1631; 1726; 1750; 1773; 1796; 1814; 1836; 1857; 1876; 1895; 1924; 1945; 1959; 1985; 2073; 2099; 2148; 2189; 2207; 2246; 2262; 2300; 2357; 2372; 2429; 2449; 2463; 2480; 2494; 2531; 2546; 2589; 2672; 2739; 2770; 2790; 2805; 2850; 2864; 2930; 2944; 2963; 2979; 3020; 3040; 3087; 3137; 3153; 3173; 3198; 3218; 3241; 3268; 3286; 3312; 3352; 3378; 3402; 3458; 3472; 3500; 3543; 3564; 3599; 3643; 3731; 3755; 3777; 3797; 3813; 3834; 3848; 3867; 3951; 3971; 3999; 4014; 4048; 4090; 4117; 4132; 4177; 4201; 4215; 4237; 4263; 4283; 4307; 4333; 4381; 4400; 4419; 4445; 4480; 4525; 4555; 4569; 4620; 4634; 4659; 4675; 4696; 4725
FspEI	!NNNNNNNNNNNNNNNGG	130	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 670; 689; 715; 752; 779; 812; 831; 858; 931; 964; 989; 1007; 1039; 1057; 1084; 1129; 1147; 1177; 1195; 1225; 1288; 1315; 1355; 1382; 1425; 1525; 1594; 1624; 1702; 1751; 1773; 1801; 1837; 1882; 1911; 1947; 1966; 1994; 2014; 2077; 2100; 2208; 2240; 2258; 2287; 2330; 2359; 2470; 2499; 2542; 2563; 2591; 2624; 2644; 2669; 2696; 2721; 2743; 2771; 2797; 2818; 2869; 2890; 2908; 2956; 2992; 3048; 3073; 3097; 3126; 3149; 3173; 3199; 3221; 3240; 3265; 3305; 3341; 3406; 3491; 3515; 3544; 3578; 3599; 3619; 3664; 3691; 3710; 3743; 3795; 3826; 3853; 3905; 4003; 4074; 4119; 4180; 4245; 4279; 4305; 4323; 4359; 4429; 4452; 4474; 4498; 4531; 4579; 4614; 4632; 4689
Fsp4HI	GC!NGC	35	835; 1005; 1197; 1200; 1207; 1284; 1398; 1401; 1531; 2050; 2072; 2086; 2524; 2663; 2715; 2726; 2816; 2821; 2858; 2899; 2986; 2992; 3228; 3324; 3365; 3379; 3493; 3832; 3847; 4058; 4264; 4267; 4332; 4475; 4630
GdiII	C!GGCCR	3	747; 1398; 2660
GdiII	Y!GGCCG	5	1211; 1398; 2660; 3225; 3252
GlaI	GC!GC	26	596; 766; 936; 964; 1110; 1353; 2019; 2027; 2053; 2075; 2084; 2097; 2128; 2747; 2755; 2819; 2856; 3122; 3382; 3558; 3644; 4047; 4156; 4330; 4430; 4497
Glul	GC!NGC	35	835; 1005; 1197; 1200; 1207; 1284; 1398; 1401; 1531; 2050; 2072; 2086; 2524; 2663; 2715; 2726; 2816; 2821; 2858; 2899; 2986; 2992; 3228; 3324; 3365; 3379; 3493; 3832; 3847; 4058; 4264; 4267; 4332; 4475; 4630
GsaI	CCCAG!C	3	2301; 2373; 4372
GsaI	GCTGG!G	1	3262
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	4	823; 1180; 1360; 3594
GsuI	!NNNNNNNNNNNNNNNCTCCAG	1	3537
HaeI	WGG!CCW	6	1147; 2575; 2836; 4198; 4650; 4661
HaeII	RGCGC!Y	8	598; 938; 1112; 1355; 2021; 2029; 2757; 4432
HaeIII	GG!CC	28	84; 277; 655; 749; 849; 1091; 1147; 1157; 1213; 1250; 1400; 1720; 1862; 2517; 2523; 2532; 2575; 2662; 2836; 3227; 3254; 3763; 3820; 3853; 4198; 4632; 4650; 4661
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1429; 2950
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1395; 2916
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1428; 2949
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1397; 2918

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HapII	C!CGG	20	601; 657; 667; 827; 1972; 2659; 2736; 2758; 2786; 2917; 3007; 3074; 3255; 3530; 3538; 3630; 4104; 4294; 4320; 4467
HgaI	GACGCGNNNN!	4	526; 793; 3464; 3543
HgaI	!NNNNNNNNNNNGCGTC	4	1032; 2087; 3982; 4560
HhaI	GCG!C	26	597; 767; 937; 965; 1111; 1354; 2020; 2028; 2054; 2076; 2085; 2098; 2129; 2748; 2756; 2820; 2857; 3123; 3383; 3559; 3645; 4048; 4157; 4331; 4431; 4498
Hin1I	GR!CGYC	8	122; 175; 258; 444; 785; 2754; 3456; 3535
Hin1II	CATG!	21	304; 364; 681; 912; 942; 1137; 1332; 1377; 2184; 2324; 2396; 2487; 2628; 2973; 3159; 3190; 3216; 3572; 3956; 4676; 4727
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1428; 2949
Hin4I	!NNNNNNNNGABNNNNNRTC	3	1396; 2917; 2947
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1428; 2949; 2979
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	1396; 2917
Hin6I	G!CGC	26	595; 765; 935; 963; 1109; 1352; 2018; 2026; 2052; 2074; 2083; 2096; 2127; 2746; 2754; 2818; 2855; 3121; 3381; 3557; 3643; 4046; 4155; 4329; 4429; 4496
HinPII	G!CGC	26	595; 765; 935; 963; 1109; 1352; 2018; 2026; 2052; 2074; 2083; 2096; 2127; 2746; 2754; 2818; 2855; 3121; 3381; 3557; 3643; 4046; 4155; 4329; 4429; 4496
HincII	GTY!RAC	2	641; 1517
HindII	GTY!RAC	2	641; 1517
HindIII	A!AGCTT	1	622
Hinfl	G!ANTC	14	410; 604; 1342; 1405; 1797; 1819; 2229; 3239; 3373; 3425; 3483; 3520; 4302; 4698
HpaI	GTT!AAC	1	1517
HpaII	C!CGG	20	601; 657; 667; 827; 1972; 2659; 2736; 2758; 2786; 2917; 3007; 3074; 3255; 3530; 3538; 3630; 4104; 4294; 4320; 4467
HphI	GGTGANNNNNNNN!	7	376; 781; 870; 1023; 1047; 3825; 3941
HphI	!NNNNNNNTCACC	2	1871; 2932
Hpy8I	GTN!NAC	12	201; 539; 577; 641; 744; 1038; 1128; 1517; 1801; 1818; 1873; 4360
Hpy99I	CGWCG!	12	645; 742; 787; 988; 1048; 2844; 2872; 3166; 3181; 3458; 3843; 4576
Hpy166II	GTN!NAC	12	201; 539; 577; 641; 744; 1038; 1128; 1517; 1801; 1818; 1873; 4360
Hpy188I	TCN!GA	12	585; 609; 1928; 2537; 2721; 3065; 3418; 3519; 3998; 4132; 4485; 4563
Hpy188III	TC!NNGA	23	613; 930; 1173; 1409; 2181; 2233; 2546; 2599; 2772; 3088; 3097; 3180; 3236; 3280; 3370; 3403; 3472; 3953; 4027; 4110; 4208; 4306; 4440
HpyAV	CCTTCNNNNNN!	4	1356; 3399; 3506; 4185
HpyAV	!NNNNNGAAGG	8	1047; 1987; 2882; 3611; 3627; 3810; 4127; 4437
HpyCH4III	ACN!GT	14	76; 198; 269; 543; 581; 645; 1845; 3134; 3250; 3358; 3681; 4172; 4642; 4713
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 740; 1124; 1232; 1814; 1826; 1869; 1979; 2870; 3057; 3838; 3971
HpyCH4V	TG!CA	20	636; 744; 821; 1206; 1503; 1530; 1598; 2315; 2324; 2387; 2396; 2511; 2587; 2646; 2805; 2980; 2994; 4064; 4360; 4727
HpyF3I	C!TNAG	8	606; 1279; 2234; 2536; 3417; 3866; 3989; 4398
HpyF10VI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 726; 827; 840; 884; 1115; 1307; 1358; 1397; 1981; 2011; 2038; 2080; 2321; 2393; 2444; 2523; 2745; 2829; 2852; 2991; 3114; 3197; 3464; 3651; 3855; 4054; 4626
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 785; 2754; 3456; 3535
Hsp92II	CATG!	21	304; 364; 681; 912; 942; 1137; 1332; 1377; 2184; 2324; 2396; 2487; 2628; 2973; 3159; 3190; 3216; 3572; 3956; 4676; 4727
HspAI	G!CGC	26	595; 765; 935; 963; 1109; 1352; 2018; 2026; 2052; 2074; 2083; 2096; 2127; 2746; 2754; 2818; 2855; 3121; 3381; 3557; 3643; 4046; 4155; 4329; 4429; 4496
KasI	G!GCGCC	1	2753
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	649
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	2	652; 1005
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1517

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kzo9I	!GATC	24	585; 609; 660; 722; 806; 1175; 1259; 1411; 2591; 2595; 2614; 2925; 3003; 3084; 3093; 3171; 3547; 3563; 3922; 3934; 4012; 4020; 4031; 4106
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3098; 3308
LpnI	RGCI!GCT	8	596; 936; 1110; 1353; 2019; 2027; 2755; 4430
LpnPI	CCDGNNNNNNNNN!	60	102; 295; 614; 670; 840; 858; 885; 970; 991; 1045; 1099; 1171; 1237; 1252; 1291; 1351; 1491; 1796; 1985; 2208; 2246; 2262; 2302; 2357; 2374; 2474; 2559; 2672; 2749; 2771; 2794; 2930; 2944; 2963; 3020; 3087; 3137; 3153; 3210; 3268; 3477; 3543; 3567; 3643; 3732; 3835; 3868; 4099; 4117; 4263; 4283; 4307; 4333; 4382; 4480; 4525; 4555; 4634; 4659; 4696
LpnPI	!NNNNNNNNNNNNNCHGG	60	75; 268; 552; 586; 642; 689; 715; 787; 812; 831; 858; 943; 964; 1018; 1072; 1144; 1195; 1225; 1324; 1837; 1957; 2014; 2077; 2275; 2287; 2347; 2359; 2591; 2636; 2679; 2721; 2743; 2771; 2818; 2880; 2902; 2992; 3059; 3082; 3126; 3221; 3240; 3265; 3414; 3515; 3558; 3615; 3705; 3808; 3835; 3853; 4089; 4126; 4279; 4305; 4445; 4463; 4498; 4579; 4632
Lsp1109I	GCAGCNNNNNNNN!	7	1218; 1542; 2827; 2869; 3390; 3843; 4343
Lsp1109I	!NNNNNNNNNNNGCTGC	8	821; 1270; 2036; 2701; 2885; 2978; 4044; 4250
LweI	GCATCNNNNNN!	8	716; 887; 1570; 2333; 2405; 3053; 3117; 3392
LweI	!NNNNNNNNNGATGC	5	357; 2712; 2967; 3183; 4575
MabI	A!CCWGGT	1	2343
MaeI	C!TAG	8	592; 1409; 1603; 2021; 2577; 3592; 3926; 4179
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 740; 1124; 1232; 1814; 1826; 1869; 1979; 2870; 3057; 3838; 3971
MaeIII	!GTNAC	13	61; 148; 497; 858; 1542; 2043; 2055; 2874; 3180; 3870; 4136; 4252; 4315
MaiI	GA!TC	24	587; 611; 662; 724; 808; 1177; 1261; 1413; 2593; 2597; 2616; 2927; 3005; 3086; 3095; 3173; 3549; 3565; 3924; 3936; 4014; 4022; 4033; 4108
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2178; 3367
MbiI	GAG!CGG	3	683; 2014; 3421
MboI	!GATC	24	585; 609; 660; 722; 806; 1175; 1259; 1411; 2591; 2595; 2614; 2925; 3003; 3084; 3093; 3171; 3547; 3563; 3922; 3934; 4012; 4020; 4031; 4106
MboII	GAAGANNNNNNNNN!	6	924; 2010; 2238; 3115; 3325; 3944
MboII	!NNNNNNNTCTTC	5	918; 3405; 3572; 3772; 4015
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1504
MfiI	R!GATCY	11	585; 609; 660; 1175; 2925; 3171; 3563; 3922; 3934; 4020; 4031
MhiI	GDGCH!C	16	620; 657; 716; 746; 845; 908; 1238; 1337; 1945; 2700; 2793; 2867; 3057; 3119; 3829; 4362
MisI	TGG!CCA	1	2836
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2836
MlyI	GAGTCNNNNNN!	3	1351; 1806; 2238
MlyI	!NNNNNGACTC	6	404; 598; 1399; 1813; 3419; 4296
Mly113I	GG!CGCC	1	2754
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1847
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	3	1079; 4279; 4463
MnII	CCTCNNNNNNNN!	8	877; 1473; 2537; 3355; 3561; 3875; 4245; 4569
MnII	!NNNNNNGAGG	22	541; 684; 765; 939; 1002; 1014; 1053; 1065; 1155; 1185; 1433; 1898; 2229; 2507; 2550; 2565; 2605; 2669; 2805; 3162; 3592; 4495
Mph1103I	ATGCA!T	3	2326; 2398; 4729
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	1971; 3254; 3537
MroXI	GAANN!NNTTC	1	922
MscI	TGG!CCA	1	2836
MseI	T!TAA	15	7; 1455; 1516; 1637; 1658; 1669; 1681; 1692; 1709; 1807; 2078; 3897; 3911; 3916; 3968
MslI	CAYNN!NRTG	5	365; 856; 913; 1033; 3191

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspI	C!CGG	20	601; 657; 667; 827; 1972; 2659; 2736; 2758; 2786; 2917; 3007; 3074; 3255; 3530; 3538; 3630; 4104; 4294; 4320; 4467
Msp20I	TGG!CCA	1	2836
MspA1I	CMG!CKG	7	651; 1004; 1209; 2252; 2860; 4089; 4334
MspCI	C!TTAAG	1	1636
MspJI	CNNRNNNNNNNN!	240	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; 613; 627; 640; 662; 679; 696; 716; 729; 742; 757; 774; 800; 814; 839; 852; 867; 880; 894; 913; 942; 955; 969; 990; 1008; 1032; 1045; 1059; 1080; 1098; 1137; 1150; 1170; 1185; 1203; 1222; 1236; 1251; 1264; 1290; 1314; 1331; 1350; 1367; 1381; 1404; 1421; 1437; 1461; 1478; 1491; 1532; 1546; 1559; 1577; 1615; 1630; 1648; 1689; 1713; 1733; 1751; 1772; 1795; 1827; 1842; 1864; 1882; 1895; 1916; 1933; 1946; 1959; 1975; 1988; 2018; 2033; 2058; 2076; 2089; 2104; 2128; 2142; 2166; 2191; 2207; 2245; 2261; 2300; 2314; 2328; 2356; 2372; 2386; 2400; 2429; 2442; 2463; 2472; 2494; 2524; 2540; 2558; 2588; 2611; 2635; 2659; 2678; 2706; 2732; 2748; 2761; 2784; 2798; 2818; 2831; 2845; 2864; 2878; 2891; 2907; 2922; 2935; 2951; 2966; 2982; 3007; 3026; 3042; 3055; 3068; 3086; 3100; 3114; 3130; 3152; 3168; 3187; 3209; 3225; 3248; 3267; 3281; 3297; 3311; 3331; 3347; 3360; 3382; 3415; 3429; 3449; 3462; 3476; 3530; 3543; 3566; 3579; 3598; 3615; 3642; 3678; 3711; 3730; 3755; 3776; 3803; 3816; 3833; 3847; 3862; 3878; 3938; 3963; 3979; 4001; 4014; 4028; 4059; 4073; 4098; 4116; 4131; 4144; 4163; 4176; 4191; 4220; 4239; 4257; 4282; 4297; 4316; 4332; 4351; 4369; 4385; 4399; 4418; 4445; 4468; 4490; 4509; 4524; 4537; 4554; 4574; 4601; 4614; 4633; 4658; 4681; 4695; 4708; 4725
MspJI	!NNNNNNNNNNNNYNG	201	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 593; 612; 636; 653; 670; 690; 712; 731; 748; 779; 796; 813; 831; 854; 875; 895; 916; 943; 964; 982; 1004; 1028; 1045; 1072; 1101; 1120; 1144; 1164; 1189; 1210; 1227; 1264; 1284; 1305; 1324; 1355; 1388; 1406; 1435; 1464; 1506; 1589; 1624; 1651; 1674; 1703; 1747; 1769; 1801; 1837; 1854; 1875; 1912; 1932; 1949; 1966; 2001; 2019; 2037; 2054; 2078; 2100; 2127; 2155; 2181; 2219; 2240; 2257; 2275; 2298; 2319; 2347; 2370; 2391; 2409; 2430; 2447; 2470; 2494; 2514; 2532; 2554; 2585; 2607; 2633; 2652; 2669; 2697; 2716; 2735; 2753; 2771; 2792; 2814; 2838; 2871; 2891; 2909; 2930; 2956; 2983; 3000; 3017; 3034; 3060; 3082; 3104; 3122; 3142; 3161; 3183; 3221; 3241; 3265; 3285; 3305; 3332; 3356; 3389; 3408; 3436; 3458; 3487; 3515; 3540; 3559; 3578; 3599; 3616; 3633; 3664; 3691; 3711; 3734; 3754; 3791; 3808; 3827; 3853; 3873; 3912; 3939; 3958; 3976; 4013; 4031; 4072; 4090; 4116; 4133; 4165; 4194; 4222; 4243; 4266; 4285; 4306; 4324; 4341; 4359; 4385; 4406; 4426; 4446; 4464; 4485; 4511; 4528; 4547; 4566; 4595; 4614; 4632; 4651; 4669; 4687; 4710
MspR9I	CC!NGG	27	90; 283; 657; 658; 846; 856; 873; 958; 979; 1033; 1087; 1159; 1240; 1339; 2290; 2345; 2362; 2758; 2918; 3141; 3531; 3720; 3823; 4295; 4513; 4526; 4647
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	1504
MvaI	CC!WGG	21	90; 283; 846; 856; 873; 958; 979; 1033; 1087; 1159; 1240; 1339; 2290; 2345; 2362; 3141; 3720; 3823; 4513; 4526; 4647
Mva1269I	GAATGCN!	1	1505
Mva1269I	G!CATTC	1	1598
MvnI	CG!CG	20	60; 651; 767; 1004; 1043; 1322; 1403; 1678; 2054; 2074; 2098; 2129; 2820; 3121; 3559; 3643; 3706; 3775; 4048; 4629
MvrI	CGAT!CG	0	
MwoI	GCNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 726; 827; 840; 884; 1115; 1307; 1358; 1397; 1981; 2011; 2038; 2080; 2321; 2393; 2444; 2523; 2745; 2829; 2852; 2991; 3114; 3197; 3464; 3651; 3855; 4054; 4626
NaeI	GCC!GGC	3	1973; 3256; 3539
NarI	GG!CGCC	1	2754
NciI	CC!SGG	6	657; 658; 2758; 2918; 3531; 4295
NcoI	C!CATGG	3	360; 2483; 3186
NdeI	CA!TATG	1	234

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeII	!GATC	24	585; 609; 660; 722; 806; 1175; 1259; 1411; 2591; 2595; 2614; 2925; 3003; 3084; 3093; 3171; 3547; 3563; 3922; 3934; 4012; 4020; 4031; 4106
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	1971; 3254; 3537
NheI	G!CTAGC	1	591
NlaIII	CATG!	21	304; 364; 681; 912; 942; 1137; 1332; 1377; 2184; 2324; 2396; 2487; 2628; 2973; 3159; 3190; 3216; 3572; 3956; 4676; 4727
NlaIV	GGN!NCC	18	467; 647; 655; 662; 1251; 1909; 1930; 1942; 2133; 2294; 2366; 2755; 2790; 3638; 3717; 3762; 4605; 4644
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1586; 1901; 3493
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 4565
Nli3877I	CYCGR!G	4	617; 660; 905; 947
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2543; 2979
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2508
NmeDI	RCCGGYNNNNNNNN!	6	678; 838; 1983; 3085; 3266; 3549
NmeDI	!NNNNNNNNNNNNRCCGGY	6	653; 813; 1958; 3060; 3241; 3524
NmuCI	!GTSAC	4	858; 2043; 2874; 3180
NotI	GC!GGCCGC	1	1398
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2856
NsiI	ATGCA!T	3	2326; 2398; 4729
NspI	RCATG!Y	4	2324; 2396; 3159; 4676
NspV	TT!CGAA	2	627; 3436
OliI	CACNN!NNGTG	2	856; 1033
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 648; 995; 1106; 1130; 1388; 3061
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2324; 2396; 3159
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	2180; 3952
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1239; 3719; 3822
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2575
PciI	A!CATGT	1	4672
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3098; 3308
PcsI	WCGNNNN!NNNCGW	9	707; 1319; 1376; 3048; 3125; 3368; 3442; 3835; 4353
PctI	GAATGCN!	1	1505
PctI	G!CATTC	1	1598
PdiI	GCC!GGC	3	1973; 3256; 3539
PdmI	GAANN!NNTTC	1	922
PfeI	G!AWTC	5	3239; 3373; 3483; 3520; 4698
Pfi23II	C!GTACG	0	
PfifiI	GACN!NNGTC	1	2872
PfimiI	CCANNNN!NTGG	2	1098; 1374
PfoI	T!CCNGGA	4	956; 977; 1337; 3529
PhoI	GG!CC	28	84; 277; 655; 749; 849; 1091; 1147; 1157; 1213; 1250; 1400; 1720; 1862; 2517; 2523; 2532; 2575; 2662; 2836; 3227; 3254; 3763; 3820; 3853; 4198; 4632; 4650; 4661
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	3	1139; 1322; 3135
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2700; 2955
PleI	GAGTCNNNN!	3	1350; 1805; 2237
PleI	!NNNNNGACTC	6	404; 598; 1399; 1813; 3419; 4296
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1836
PpiI	!NNNNNNNNNGAGNNNNNGTTC	4	682; 796; 1000; 3966
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	4	714; 828; 1032; 3998

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpiI	!NNNNNNGAACNNNNNCTC	1	1804
Ppsi	GAGTCNNNN!	3	1350; 1805; 2237
Ppsi	!NNNNNGACTC	6	404; 598; 1399; 1813; 3419; 4296
Ppu10I	A!TGCAT	3	2322; 2394; 4725
Ppu21I	YAC!GTR	3	340; 1870; 3058
PpuMI	RG!GWCCY	0	
Psci	A!CATGT	1	4672
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1537; 1742
Psp03I	GGWC!C	3	1308; 3273; 3718
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	21	88; 281; 844; 854; 871; 956; 977; 1031; 1085; 1157; 1238; 1337; 2288; 2343; 2360; 3139; 3718; 3821; 4511; 4524; 4645
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	1	858
PspGI	!CCWGG	21	88; 281; 844; 854; 871; 956; 977; 1031; 1085; 1157; 1238; 1337; 2288; 2343; 2360; 3139; 3718; 3821; 4511; 4524; 4645
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	18	467; 647; 655; 662; 1251; 1909; 1930; 1942; 2133; 2294; 2366; 2755; 2790; 3638; 3717; 3762; 4605; 4644
PspOMI	G!GGCCC	1	653
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 2484; 3483
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	2	1221; 2886
PspPI	G!GNCC	13	83; 276; 654; 848; 1089; 1249; 1305; 1861; 3270; 3715; 3761; 3819; 3852
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	2307; 2379; 3885
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	3	859; 2220; 3415
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
Pssi	RGGNC!CY	1	3855
PstI	CTGCA!G	1	638
PstNI	CAGNNN!CTG	2	3855; 4263
PsuI	R!GATCY	11	585; 609; 660; 1175; 2925; 3171; 3563; 3922; 3934; 4020; 4031
PsyI	GACN!NNGTC	1	2872
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1209; 2252; 2860
RcaI	T!CATGA	2	2180; 3952
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3269
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	1483
RleAI	!NNNNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 647; 994; 1105; 1129; 1387; 3060
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 993; 1104; 1128; 1386; 3059
RseI	CAYNN!NNRTG	5	365; 856; 913; 1033; 3191
RsrII	CG!GWCCG	1	3270
Rsr2I	CG!GWCCG	1	3270
SacI	GAGCT!C	1	620
SacII	CCG!GG	2	652; 1005

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SaI	G!TCGAC	1	639
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	3098; 3308
SaqAI	T!TAA	15	7; 1455; 1516; 1637; 1658; 1669; 1681; 1692; 1709; 1807; 2078; 3897; 3911; 3916; 3968
SatI	GC!NGC	35	835; 1005; 1197; 1200; 1207; 1284; 1398; 1401; 1531; 2050; 2072; 2086; 2524; 2663; 2715; 2726; 2816; 2821; 2858; 2899; 2986; 2992; 3228; 3324; 3365; 3379; 3493; 3832; 3847; 4058; 4264; 4267; 4332; 4475; 4630
Sau96I	G!GNCC	13	83; 276; 654; 848; 1089; 1249; 1305; 1861; 3270; 3715; 3761; 3819; 3852
Sau3AI	!GATC	24	585; 609; 660; 722; 806; 1175; 1259; 1411; 2591; 2595; 2614; 2925; 3003; 3084; 3093; 3171; 3547; 3563; 3922; 3934; 4012; 4020; 4031; 4106
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	1351; 1806; 2238
SchI	!NNNNNGACTC	6	404; 598; 1399; 1813; 3419; 4296
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	27	90; 283; 657; 658; 846; 856; 873; 958; 979; 1033; 1087; 1159; 1240; 1339; 2290; 2345; 2362; 2758; 2918; 3141; 3531; 3720; 3823; 4295; 4513; 4526; 4647
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNN!	5	984; 2332; 2404; 2573; 4515
SdeAI	!NNNNNNNNNNNNNNNNNNNNNNNNCTYCTG	3	1316; 2909; 3394
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	16	620; 657; 716; 746; 845; 908; 1238; 1337; 1945; 2700; 2793; 2867; 3057; 3119; 3829; 4362
SelI	!CGCG	20	58; 649; 765; 1002; 1041; 1320; 1401; 1676; 2052; 2072; 2096; 2127; 2818; 3119; 3557; 3641; 3704; 3773; 4046; 4627
SetI	ASST!	64	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 698; 731; 743; 803; 836; 1013; 1052; 1127; 1211; 1235; 1280; 1285; 1385; 1444; 1465; 1474; 1486; 1535; 1702; 1817; 1829; 1872; 1909; 1959; 1982; 2106; 2254; 2349; 2542; 2655; 2783; 2862; 2873; 2945; 3016; 3060; 3320; 3466; 3510; 3841; 3872; 3931; 3974; 4117; 4138; 4237; 4374; 4389; 4408; 4420; 4464; 4510; 4561
SexAI	A!CCWGGT	1	2343
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	716; 887; 1570; 2333; 2405; 3053; 3117; 3392
SfaNI	!NNNNNNNNNGATGC	5	357; 2712; 2967; 3183; 4575
Sfcl	C!TRYAG	4	634; 2089; 4216; 4407
SfiI	GGCCNNNN!NGGCC	1	2529
SfoI	GGC!GCC	1	2755
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	2	652; 1005
Sful	TT!CGAA	2	627; 3436
SgeI	CNNGNNNNNNNNN!	192	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 696; 716; 729; 742; 757; 774; 810; 839; 852; 867; 880; 894; 913; 942; 955; 969; 990; 1008; 1032; 1045; 1059; 1080; 1098; 1137; 1150; 1170; 1185; 1203; 1222; 1236; 1251; 1264; 1290; 1314; 1331; 1350; 1381; 1414; 1461; 1490; 1532; 1615; 1689; 1773; 1795; 1827; 1864; 1882; 1901; 1916; 1958; 1975; 1992; 2027; 2041; 2058; 2080; 2104; 2128; 2193; 2207; 2245; 2261; 2301; 2314; 2333; 2356; 2373; 2386; 2405; 2435; 2456; 2473; 2496; 2531; 2558; 2589; 2611; 2637; 2659; 2678; 2706; 2742; 2761; 2784; 2798; 2818; 2831; 2845; 2864; 2878; 2897; 2929; 2943; 2956; 2982; 3013; 3026; 3043; 3060; 3074; 3091; 3109; 3124; 3152; 3168; 3187; 3209; 3225; 3248; 3267; 3292; 3311; 3331; 3358; 3382; 3415; 3434; 3462; 3476; 3542; 3566; 3581; 3604; 3625; 3642; 3690; 3717; 3731; 3760; 3784; 3817; 3834; 3854; 3867; 3880; 3938; 3965; 3984; 4014; 4039; 4059; 4073; 4098; 4116; 4153; 4191; 4220; 4248; 4262; 4282; 4297; 4318; 4332; 4351; 4369; 4385; 4425; 4445; 4472; 4490; 4511; 4524; 4537; 4554; 4578; 4601; 4633; 4658; 4685; 4707

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	167	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 670; 690; 712; 731; 748; 784; 813; 831; 854; 879; 916; 943; 964; 982; 1006; 1028; 1045; 1072; 1111; 1129; 1159; 1177; 1196; 1219; 1238; 1264; 1288; 1305; 1324; 1355; 1388; 1435; 1464; 1506; 1589; 1663; 1747; 1769; 1801; 1838; 1856; 1875; 1932; 1949; 1966; 2001; 2019; 2039; 2059; 2078; 2102; 2167; 2219; 2275; 2307; 2330; 2347; 2379; 2409; 2430; 2447; 2470; 2505; 2532; 2563; 2585; 2611; 2633; 2652; 2680; 2716; 2735; 2758; 2779; 2797; 2814; 2838; 2871; 2903; 2930; 2956; 2987; 3017; 3034; 3060; 3083; 3104; 3126; 3146; 3166; 3183; 3222; 3241; 3266; 3285; 3305; 3332; 3356; 3389; 3408; 3436; 3458; 3516; 3540; 3559; 3578; 3599; 3616; 3664; 3691; 3711; 3734; 3758; 3791; 3808; 3828; 3854; 3912; 3939; 3958; 3988; 4013; 4033; 4072; 4090; 4127; 4165; 4194; 4222; 4243; 4271; 4292; 4325; 4343; 4399; 4419; 4446; 4464; 4485; 4511; 4528; 4552; 4575; 4607; 4632; 4659; 4681; 4710
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	2	652; 1005
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1901; 3688; 4481
SimI	!GACCC	5	106; 998; 3182; 3750; 3998
SinI	G!GWCC	3	1305; 3270; 3715
Slal	C!TCGAG	1	613
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 856; 913; 1033; 3191
SmlI	C!TYRAG	7	613; 619; 1636; 3145; 4027; 4304; 4566
SmoI	C!TYRAG	7	613; 619; 1636; 3145; 4027; 4304; 4566
SmuI	CCCGC!NNNN!	11	93; 119; 286; 901; 1009; 1327; 2076; 2431; 2452; 3648; 3780
SmuI	!NNNNNNCGGGG	7	644; 676; 2007; 2877; 3414; 3552; 3699
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2324; 2396; 3159
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 629; 1504; 1568; 1646; 1672; 1683; 2330; 2402; 2494; 3912
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2575
SsiI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 649; 894; 1002; 1041; 1179; 1292; 1308; 1320; 1389; 1401; 2069; 2072; 2086; 2176; 2424; 2436; 2445; 2457; 2467; 2478; 2524; 2663; 2726; 3228; 3273; 3339; 3365; 3490; 3493; 3641; 3773; 4080; 4224; 4720
SsiI	G!CGG	30	370; 403; 528; 651; 683; 767; 1004; 1196; 1199; 1397; 2014; 2041; 2129; 2239; 2820; 2884; 2985; 2988; 3268; 3323; 3421; 3559; 3706; 3846; 4089; 4334; 4455; 4474; 4601; 4629
SspI	AAT!ATT	2	1662; 2215
SspDI	G!CGGCC	1	2753
SspD5I	GGTG!NNNNNNNN!	7	376; 781; 870; 1023; 1047; 3825; 3941
SspD5I	!NNNNNNNNNTCACC	2	1870; 2931
SstI	GAGCT!C	1	620
SstII	CCGC!GG	2	652; 1005
SstE37I	CGAAGAC!NNNNNNNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCG!NNNN!	25	92; 118; 285; 663; 722; 845; 900; 908; 950; 1008; 1145; 1259; 1326; 1953; 2075; 2430; 2451; 2764; 3167; 3306; 3377; 3647; 3779; 4009; 4447
Sth132I	!NNNNNNNNCGGG	20	15; 407; 470; 643; 675; 1954; 2006; 2107; 2834; 2876; 2909; 3413; 3522; 3551; 3698; 3802; 3833; 4286; 4330; 4538
Sth302II	CC!GG	20	602; 658; 668; 828; 1973; 2660; 2737; 2759; 2787; 2918; 3008; 3075; 3256; 3531; 3539; 3631; 4105; 4295; 4321; 4468
StrI	C!TCGAG	1	613
StsI	GGATG!NNNNNNNNNN!	4	2622; 3079; 3104; 3558
StsI	!NNNNNNNNNNNNNNNNCATCC	4	864; 939; 1068; 2426
StuI	AGG!CCT	1	2575
StyI	C!CWWGG	5	360; 2483; 2576; 3186; 3591

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StyD4I	!CCNGG	27	88; 281; 655; 656; 844; 854; 871; 956; 977; 1031; 1085; 1157; 1238; 1337; 2288; 2343; 2360; 2756; 2916; 3139; 3529; 3718; 3821; 4293; 4511; 4524; 4645
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	14	76; 198; 269; 543; 581; 645; 1845; 3134; 3250; 3358; 3681; 4172; 4642; 4713
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 743; 1127; 1235; 1817; 1829; 1872; 1982; 2873; 3060; 3841; 3974
TaqI	T!CGA	18	614; 627; 640; 725; 1019; 1046; 1190; 1903; 2594; 2867; 3023; 3047; 3083; 3245; 3436; 3481; 3736; 4574
TaqII	GACCGANNNNNNNNNN!	3	1774; 2791; 3459
TaqII	!NNNNNNNNNTCGGTC	1	3703
TaqII	CACCCANNNNNNNNNN!	1	1381
TaqII	!NNNNNNNNNTGGGTG	3	172; 2658; 3250
TasI	!AATT	11	18; 629; 1504; 1568; 1646; 1672; 1683; 2330; 2402; 2494; 3912
TatI	W!GTACW	7	217; 297; 330; 381; 992; 1103; 1127
TauI	GCSG!C	20	1007; 1199; 1202; 1400; 1403; 2074; 2088; 2526; 2665; 2728; 2823; 2988; 2991; 3230; 3326; 3367; 3495; 3849; 4477; 4632
TfiI	G!AWTC	5	3239; 3373; 3483; 3520; 4698
ThiI	C!TCGAG	1	613
TruII	T!TAA	15	7; 1455; 1516; 1637; 1658; 1669; 1681; 1692; 1709; 1807; 2078; 3897; 3911; 3916; 3968
Tru9I	T!TAA	15	7; 1455; 1516; 1637; 1658; 1669; 1681; 1692; 1709; 1807; 2078; 3897; 3911; 3916; 3968
TscAI	CASTGNN!	6	889; 1600; 2883; 3993; 4264; 4277
TseI	G!CWGC	16	834; 1206; 1283; 1530; 2049; 2714; 2815; 2857; 2898; 2991; 3378; 3831; 4057; 4263; 4266; 4331
TsoI	TARCCANNNNNNNNNN!	2	1726; 2073
TsoI	!NNNNNNNNNTGGYTA	2	1531; 3283
Tsp45I	!GTSAC	4	858; 2043; 2874; 3180
Tsp509I	!AATT	11	18; 629; 1504; 1568; 1646; 1672; 1683; 2330; 2402; 2494; 3912
TspDTI	ATGAANNNNNNNNNN!	4	925; 1512; 2813; 3517
TspDTI	!NNNNNNNNNTTCAT	5	26; 804; 3231; 3687; 3894
TspEI	!AATT	11	18; 629; 1504; 1568; 1646; 1672; 1683; 2330; 2402; 2494; 3912
TspGWI	ACGGANNNNNNNNNN!	1	3629
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	6	889; 1600; 2883; 3993; 4264; 4277
TstI	CACNNNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2872
Tth111II	CAARCAANNNNNNNNNN!	1	4081
Tth111II	!NNNNNNNNNTGYTTG	3	3189; 4049; 4088
UnbI	!GGNCC	13	82; 275; 653; 847; 1088; 1248; 1304; 1860; 3269; 3714; 3760; 3818; 3851
Van9II	CCANNNN!NTGG	2	1098; 1374
Vha464I	C!TTAAG	1	1636
VneI	G!TGCAC	2	742; 4358
VpaK11AI	!GGWCC	3	1304; 3269; 3714
VpaK11BI	G!GWCC	3	1305; 3270; 3715
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATY	4	629; 1568; 1672; 1683
XbaI	T!CTAGA	1	1408
XceI	RCATG!Y	4	2324; 2396; 3159; 4676
XcmI	CCANNNN!NNNTGG	2	1155; 1236
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	11	585; 609; 660; 1175; 2925; 3171; 3563; 3922; 3934; 4020; 4031
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	2576; 3591
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	1	922
XspI	C!TAG	8	592; 1409; 1603; 2021; 2577; 3592; 3926; 4179
ZraI	GAC!GTC	4	123; 176; 259; 445

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2326; 2398; 4729