

## pCase12-mem vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2122; 2327
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	4	1936; 2410; 3366; 5155
AatI	AGG!CCT	1	3160
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	640
AccII	CG!CG	19	60; 651; 1004; 1424; 1533; 1988; 2263; 2639; 2659; 2683; 2714; 3405; 3706; 4144; 4228; 4291; 4360; 4633; 5214
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	3441
Acc36I	ACCTGCNNNN!	2	3607; 4057
Acc36I	!NNNNNNNNGCAGGT	1	3226
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	9	465; 645; 1093; 1131; 1606; 1714; 2492; 3338; 3373
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	2763; 3952
AccBSI	GAG!CGG	2	2599; 4006
AceIII	CAGCTCNNNNNNN!	2	901; 2295
AceIII	!NNNNNNNNNNGAGCTG	5	552; 1051; 1102; 1135; 1456
AciI	C!CGC	40	58; 86; 98; 112; 279; 507; 589; 649; 861; 1034; 1037; 1314; 1355; 1422; 1461; 1986; 2654; 2657; 2671; 2761; 3009; 3021; 3030; 3042; 3052; 3063; 3109; 3248; 3311; 3813; 3858; 3924; 3950; 4075; 4078; 4226; 4358; 4665; 4809; 5305
AciI	G!CGG	27	370; 403; 528; 651; 1082; 1088; 1982; 2599; 2626; 2714; 2824; 3405; 3469; 3570; 3573; 3853; 3908; 4006; 4144; 4291; 4431; 4674; 4919; 5040; 5059; 5186; 5214
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	668; 1051; 3207; 3518; 3764; 4156; 4515; 4613; 4699
AclWI	!NNNNNGATCC	7	580; 655; 852; 3583; 4127; 4514; 4611
AcoI	Y!GGCCR	7	818; 1167; 1983; 3245; 3419; 3810; 3837
AcsI	R!AATTY	7	629; 1564; 1732; 1951; 2153; 2257; 2268
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	5	1249; 1321; 1492; 3485; 3917
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4715
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	7	122; 175; 258; 444; 3339; 4041; 4120
AdeI	CACNNN!GTG	1	2455
AfaI	GT!AC	11	219; 244; 299; 332; 383; 540; 647; 1069; 1525; 1958; 3645
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	19	49; 1040; 1265; 1428; 2351; 2677; 3069; 3320; 3864; 4145; 4177; 4309; 4344; 4394; 4426; 4779; 5058; 5224; 5242
AflII	C!TTAAG	1	2221
AflIII	A!CRYGT	2	1531; 5257
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	11	712; 855; 1350; 1398; 1488; 1569; 2750; 2794; 2804; 3217; 4793
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	2	742; 1854
AjiI	GAC!GTG	0	
Ajni	!CCWGG	16	88; 281; 1139; 1264; 1376; 1451; 1505; 2873; 2928; 2945; 3724; 4303; 4406; 5096; 5109; 5230
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	3	1126; 1276; 1453
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	2	2913; 2985
AlfI	!NNNNNNNNNNGCANNNNNTGC	2	2879; 2951
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	2421
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	1	2389
AluI	AG!CT	28	566; 618; 624; 778; 794; 891; 965; 1065; 1116; 1149; 1221; 1233; 1254; 1470; 1518; 1542; 1669; 2118; 2285; 2542; 2837; 3125; 3445; 3903; 4700; 4957; 5003; 5093
AluBI	AG!CT	28	566; 618; 624; 778; 794; 891; 965; 1065; 1116; 1149; 1221; 1233; 1254; 1470; 1518; 1542; 1669; 2118; 2285; 2542; 2837; 3125; 3445; 3903; 4700; 4957; 5003; 5093
AlwI	GGATCNNNN!	9	668; 1051; 3207; 3518; 3764; 4156; 4515; 4613; 4699
AlwI	!NNNNNGATCC	7	580; 655; 852; 3583; 4127; 4514; 4611
Alw21I	GWGCW!C	5	620; 796; 3452; 3642; 4947
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1922; 2763; 3181; 4200; 4328
Alw44I	G!TGCAC	1	4943
AlwNI	CAGNNN!CTG	3	1669; 4440; 4848
Ama87I	C!YCGRG	3	613; 656; 799
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNNN!TGC	3	2907; 2979; 4441
ApaLI	G!TGCAC	1	4943
ApeKI	G!CWGC	21	881; 888; 939; 942; 1100; 1254; 1335; 1837; 2115; 2634; 3299; 3400; 3442; 3483; 3576; 3963; 4416; 4642; 4848; 4851; 4916
ApoI	R!AATTY	7	629; 1564; 1732; 1951; 2153; 2257; 2268
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	3854
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	3648; 4301; 5139
AquI	GCCGNACNNNNNNNNNNNNNNNNNN!	1	3738
AquI	!NNNNNNNNNNNNNNNNNGTNCGGC	1	1166
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	2	1136; 3167
AquIII	!NNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	2	1707; 3909
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	1	1358
ArsI	CRAANNNNNGTCNNNNNNNNNNNN!	1	1390
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	28	586; 610; 661; 735; 858; 1006; 1044; 1236; 1537; 1686; 1905; 1997; 3177; 3181; 3200; 3511; 3589; 3670; 3679; 3757; 4133; 4149; 4508; 4520; 4598; 4606; 4617; 4692
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3457
Asp700I	GAANN!NNTTC	1	1306
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	3161; 4176
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	24	597; 1004; 1385; 1426; 2605; 2613; 2639; 2661; 2670; 2683; 2714; 3333; 3341; 3405; 3442; 3708; 3968; 4144; 4230; 4633; 4742; 4916; 5016; 5083
AspS9I	G!GNCC	13	83; 276; 654; 726; 931; 1014; 1268; 2446; 3855; 4300; 4346; 4404; 4437
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 4021
AsuC2I	CC!SGG	8	657; 658; 1041; 1125; 3343; 3503; 4116; 4880
AsuHPI	GGTGANNNNNNNN!	5	376; 1443; 1467; 4410; 4526
AsuHPI	!NNNNNNNTCACC	3	1113; 2456; 3517
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	3	613; 656; 799
AvaII	G!GWCC	4	726; 1014; 3855; 4300

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AviII	TGC!GCA	1	3441
AvrII	C!CTAGG	2	3161; 4176
AxyI	CC!TNAGG	2	2819; 4451
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	7	657; 1136; 1265; 1514; 3285; 3378; 4947
BalI	TGG!CCA	1	3421
BamHI	G!GATCC	1	660
BanI	G!GYRCC	9	465; 645; 1093; 1131; 1606; 1714; 2492; 3338; 3373
BanII	GRGCY!C	6	620; 657; 796; 2530; 3704; 4414
BanIII	AT!CGAT	1	3179
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	1	1972
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	1	1940
BasI	CCANNNN!NTGG	0	
BauI	C!ACGAG	2	4057; 5084
BauI	C!TCGTG	2	1276; 3931
BbeI	GGCG!C	1	3342
Bbr7I	GAAGACNNNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	2909; 2981; 3744
BbvI	GCAGCNNNNNNNN!	10	893; 1112; 1347; 1849; 2127; 3412; 3454; 3975; 4428; 4928
BbvI	!NNNNNNNNNNNGCTGC	8	926; 1241; 2621; 3286; 3470; 3563; 4629; 4835
Bbv12I	GWGCW!C	5	620; 796; 3452; 3642; 4947
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	8	928; 1144; 1396; 1618; 2469; 3033; 3559; 4061
BccI	!NNNNNGATGG	9	1072; 1591; 1699; 1740; 1810; 1918; 2437; 3217; 3645
BceAI	ACGGCNNNNNNNNNNNN!	10	852; 894; 945; 1170; 1230; 1311; 1422; 1512; 3765; 4252
BceAI	!NNNNNNNNNNNNNGCCGT	3	2480; 3298; 4757
BceFI	ACGGCNNNNNNNNNNNN!	10	852; 894; 945; 1170; 1230; 1311; 1422; 1512; 3765; 4252
BceFI	!NNNNNNNNNNNNNGCCGT	3	2481; 3299; 4758
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	1	1220
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	1	1186
BciVI	GTATCCNNNNNN!	3	2768; 3558; 5059
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	3	1536; 1685; 1904
BcnI	CC!SGG	8	657; 658; 1041; 1125; 3343; 3503; 4116; 4880
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNNN!	1	5192
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	1	5158
BfaI	C!TAG	9	592; 1751; 1994; 2188; 2606; 3162; 4177; 4511; 4764
BfiI	ACTGGGNNNNN!	2	1657; 3288
BfiI	!NNNNCCCAGT	2	289; 3040
BfmI	C!TRYAG	5	634; 779; 2674; 4801; 4992
BfoI	RGCGC!Y	5	598; 2606; 2614; 3342; 5017
BfrI	C!TTAAG	1	2221
BfuI	GTATCCNNNNNN!	3	2768; 3558; 5059
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3607; 4057
BfuAI	!NNNNNNNNNGCAGGT	1	3226
BfuCI	!GATC	28	585; 609; 660; 734; 857; 1005; 1043; 1235; 1536; 1685; 1904; 1996; 3176; 3180; 3199; 3510; 3588; 3669; 3678; 3756; 4132; 4148; 4507; 4519; 4597; 4605; 4616; 4691
BglI	GCCNNNN!NGGC	4	90; 212; 283; 3114
BglII	A!GATCT	2	609; 734

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BisI	GC!NGC	37	882; 889; 940; 943; 1037; 1101; 1255; 1336; 1838; 1986; 2116; 2635; 2657; 2671; 3109; 3248; 3300; 3311; 3401; 3406; 3443; 3484; 3571; 3577; 3813; 3909; 3950; 3964; 4078; 4417; 4432; 4643; 4849; 4852; 4917; 5060; 5215
BlnI	C!CTAGG	2	3161; 4176
BlpI	GC!TNAGC	1	790
BlsI	GCN!GC	37	883; 890; 941; 944; 1038; 1102; 1256; 1337; 1839; 1987; 2117; 2636; 2658; 2672; 3110; 3249; 3301; 3312; 3402; 3407; 3444; 3485; 3572; 3578; 3814; 3910; 3951; 3965; 4079; 4418; 4433; 4644; 4850; 4853; 4918; 5061; 5216
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	4	726; 1014; 3855; 4300
Bme1390I	CC!NGG	24	90; 283; 657; 658; 1041; 1125; 1141; 1266; 1378; 1453; 1507; 2875; 2930; 2947; 3343; 3503; 3726; 4116; 4305; 4408; 4880; 5098; 5111; 5232
BmeRI	GACNN!NNGTC	0	
BmeT110I	C!YCGRG	3	613; 656; 799
BmgBI	CAC!GTC	2	742; 1854
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	13	84; 277; 655; 727; 932; 1015; 1269; 2447; 3856; 4301; 4347; 4405; 4438
BmiI	GGN!NCC	22	467; 647; 655; 662; 933; 1095; 1133; 1608; 1716; 2494; 2515; 2527; 2718; 2879; 2951; 3340; 3375; 4223; 4302; 4347; 5190; 5229
BmrI	ACTGGGNNNNN!	2	1657; 3288
BmrI	!NNNNCCCAGT	2	289; 3040
BmrFI	CC!NGG	24	90; 283; 657; 658; 1041; 1125; 1141; 1266; 1378; 1453; 1507; 2875; 2930; 2947; 3343; 3503; 3726; 4116; 4305; 4408; 4880; 5098; 5111; 5232
BmsI	GCATCNNNNN!	9	848; 1472; 1487; 2155; 2918; 2990; 3638; 3702; 3977
BmsI	!NNNNNNNNNGATGC	7	357; 1194; 1689; 3297; 3552; 3768; 5160
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1657; 3288
BmuI	!NNNNCCCAGT	2	289; 3040
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3128; 4027
BpI	!NNNNNNNNNGAGNNNNNNCTC	2	3096; 3995
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	1042; 1540; 4179
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	1	4122
Bpu10I	CC!TNAGC	2	961; 979
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 4021
Bpu1102I	GC!TNAGC	1	790
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4633; 5172
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	3	604; 3715; 4874
BpuMI	CC!SGG	8	657; 658; 1041; 1125; 3343; 3503; 4116; 4880
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	4328
Bsa29I	AT!CGAT	1	3179
BsaAI	YAC!GTR	3	340; 2455; 3643
BsaBI	GATNN!NNATC	2	2001; 3198
BsaHI	GR!CGYC	7	122; 175; 258; 444; 3339; 4041; 4120
BsaJI	C!CNNGG	23	360; 649; 656; 1124; 1264; 1287; 1427; 1451; 1506; 2873; 2945; 3068; 3103; 3112; 3161; 3502; 3771; 4176; 4303; 4304; 4406; 4407; 5097
BsaMI	GAATGCN!	1	2090
BsaMI	G!CATTC	2	1795; 2183
BsaWI	W!CCGGW	6	600; 666; 3370; 4214; 4904; 5051
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2419
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	2389

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	1	1553
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	2340; 4247
Bsc4I	CCNNNNN!NNGG	19	49; 1040; 1265; 1428; 2351; 2677; 3069; 3320; 3864; 4145; 4177; 4309; 4344; 4394; 4426; 4779; 5058; 5224; 5242
BscAI	GCATCNNNN!	9	847; 1471; 1486; 2154; 2917; 2989; 3637; 3701; 3976
BscAI	!NNNNNNGATGC	7	360; 1197; 1692; 3300; 3555; 3771; 5163
Bse1I	ACTGGN!	4	1652; 3283; 3484; 4730
Bse1I	C!CAGT	6	295; 969; 2368; 3046; 4842; 4855
Bse8I	GATNN!NNATC	2	2001; 3198
Bse21I	CC!TNAGG	2	2819; 4451
Bse118I	R!CCGGY	7	666; 1096; 1246; 2556; 3658; 3839; 4122
BseAI	T!CCGGA	0	
BseBI	CC!WGG	16	90; 283; 1141; 1266; 1378; 1453; 1507; 2875; 2930; 2947; 3726; 4305; 4408; 5098; 5111; 5232
BseCI	AT!CGAT	1	3179
BseDI	C!CNNGG	23	360; 649; 656; 1124; 1264; 1287; 1427; 1451; 1506; 2873; 2945; 3068; 3103; 3112; 3161; 3502; 3771; 4176; 4303; 4304; 4406; 4407; 5097
Bse3DI	GCAATGNN!	2	1827; 3572
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	7	1083; 1704; 1821; 3199; 3656; 3681; 4135
BseGI	!CATCC	3	1136; 1502; 3025
BseJI	GATNN!NNATC	2	2001; 3198
BseLI	CCNNNNN!NNGG	19	49; 1040; 1265; 1428; 2351; 2677; 3069; 3320; 3864; 4145; 4177; 4309; 4344; 4394; 4426; 4779; 5058; 5224; 5242
BseMI	GCAATGNN!	2	1827; 3572
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	620; 4465
BseMII	!NNNNNNNNCTGAG	8	781; 952; 970; 2810; 3112; 3993; 4565; 4974
BseNI	ACTGGN!	4	1652; 3283; 3484; 4730
BseNI	C!CAGT	6	295; 969; 2368; 3046; 4842; 4855
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1126; 3157
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!	7	657; 1136; 1265; 1514; 3285; 3378; 4947
BseXI	GCAGCNNNNNNNN!	10	893; 1112; 1347; 1849; 2127; 3412; 3454; 3975; 4428; 4928
BseXI	!NNNNNNNNNNNGTCTG	8	926; 1241; 2621; 3286; 3470; 3563; 4629; 4835
BseX3I	C!GGCCG	2	1983; 3245
BseYI	C!CCAGC	3	2882; 2954; 4953
BseYI	G!CTGGG	1	3843
BsgI	GTGCAGNNNNNNNNNNNNNN!	2	907; 1856
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	1224
Bsh1236I	CG!CG	19	60; 651; 1004; 1424; 1533; 1988; 2263; 2639; 2659; 2683; 2714; 3405; 3706; 4144; 4228; 4291; 4360; 4633; 5214
Bsh1285I	CGRY!CG	4	671; 1986; 3248; 4923
BshFI	GG!CC	27	84; 277; 655; 820; 847; 932; 1169; 1269; 1298; 1985; 2305; 2447; 3102; 3108; 3117; 3160; 3247; 3421; 3812; 3839; 4348; 4405; 4438; 4783; 5217; 5235; 5246
BshNI	G!GYRCC	9	465; 645; 1093; 1131; 1606; 1714; 2492; 3338; 3373
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	3179
BsiEI	CGRY!CG	4	671; 1986; 3248; 4923
BsiHKAI	GWGCW!C	5	620; 796; 3452; 3642; 4947
BsiHKCI	C!YCGRG	3	613; 656; 799
BsiSI	C!CGG	24	601; 657; 667; 1040; 1097; 1124; 1187; 1247; 2557; 3244; 3321; 3343; 3371; 3502; 3592; 3659; 3840; 4115; 4123; 4215; 4689; 4879; 4905; 5052
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	19	49; 1040; 1265; 1428; 2351; 2677; 3069; 3320; 3864; 4145; 4177; 4309; 4344; 4394; 4426; 4779; 5058; 5224; 5242
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3490; 4022; 4131
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2855; 2927; 2991; 4286
BsmI	GAATGCN!	1	2090
BsmI	G!CATTC	2	1795; 2183
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	1922; 2763; 3181; 4200; 4328

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BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	1922
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3490; 4022; 4131
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2855; 2927; 2991; 4286
BsnI	GG!CC	27	84; 277; 655; 820; 847; 932; 1169; 1269; 1298; 1985; 2305; 2447; 3102; 3108; 3117; 3160; 3247; 3421; 3812; 3839; 4348; 4405; 4438; 4783; 5217; 5235; 5246
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACG	1	4328
BsoBI	C!YCGRG	3	613; 656; 799
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	360; 3068; 3771
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4142
Bsp24I	!NNNNNNCCANNNNNGTC	2	4563; 4741
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4595; 4773
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4110
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 4021
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	28	585; 609; 660; 734; 857; 1005; 1043; 1235; 1536; 1685; 1904; 1996; 3176; 3180; 3199; 3510; 3588; 3669; 3678; 3756; 4132; 4148; 4507; 4519; 4597; 4605; 4616; 4691
Bsp1286I	GDGCH!C	14	620; 657; 796; 1136; 1265; 1514; 2530; 3285; 3378; 3452; 3642; 3704; 4414; 4947
Bsp1407I	T!GTACA	1	1067
Bsp1720I	GC!TNAGC	1	790
BspACI	C!CGC	40	58; 86; 98; 112; 279; 507; 589; 649; 861; 1034; 1037; 1314; 1355; 1422; 1461; 1986; 2654; 2657; 2671; 2761; 3009; 3021; 3030; 3042; 3052; 3063; 3109; 3248; 3311; 3813; 3858; 3924; 3950; 4075; 4078; 4226; 4358; 4665; 4809; 5305
BspACI	G!CGG	27	370; 403; 528; 651; 1082; 1088; 1982; 2599; 2626; 2714; 2824; 3405; 3469; 3570; 3573; 3853; 3908; 4006; 4144; 4291; 4431; 4674; 4919; 5040; 5059; 5186; 5214
BspCNI	CTCAGNNNNNNNN!	2	619; 4464
BspCNI	!NNNNNNCTGAG	8	782; 953; 971; 2811; 3113; 3994; 4566; 4975
BspDI	AT!CGAT	1	3179
BspD6I	GACTCNNNN!	6	418; 612; 1998; 2412; 4018; 4895
BspD6I	!NNNNNGAGTC	3	1795; 2375; 2807
BspEI	T!CCGGA	0	
BspFNI	CG!CG	19	60; 651; 1004; 1424; 1533; 1988; 2263; 2639; 2659; 2683; 2714; 3405; 3706; 4144; 4228; 4291; 4360; 4633; 5214
BspHI	T!CATGA	4	1637; 1856; 2765; 4537
BspLI	GGN!NCC	22	467; 647; 655; 662; 933; 1095; 1133; 1608; 1716; 2494; 2515; 2527; 2718; 2879; 2951; 3340; 3375; 4223; 4302; 4347; 5190; 5229
BspMI	ACCTGCNNNN!	2	3607; 4057
BspMI	!NNNNNNNGCAGGT	1	3226
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	668; 1051; 3207; 3518; 3764; 4156; 4515; 4613; 4699
BspPI	!NNNNNGATCC	7	580; 655; 852; 3583; 4127; 4514; 4611
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3683; 3893
BspTI	C!TTAAG	1	2221
BspT104I	TT!CGAA	2	627; 4021
BspT107I	G!GYRCC	9	465; 645; 1093; 1131; 1606; 1714; 2492; 3338; 3373
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	4328
BsrI	ACTGGN!	4	1652; 3283; 3484; 4730
BsrI	C!CAGT	6	295; 969; 2368; 3046; 4842; 4855
BsrBI	CCG!CTC	2	2763; 3952
BsrBI	GAG!CGG	2	2599; 4006
BsrDI	GCAATGNN!	2	1827; 3572
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	666; 1096; 1246; 2556; 3658; 3839; 4122
BsrGI	T!GTACA	1	1067
BsrSI	ACTGGN!	4	1652; 3283; 3484; 4730

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	C!CAGT	6	295; 969; 2368; 3046; 4842; 4855
BssAI	R!CCGGY	7	666; 1096; 1246; 2556; 3658; 3839; 4122
BssECI	C!CNNGG	23	360; 649; 656; 1124; 1264; 1287; 1427; 1451; 1506; 2873; 2945; 3068; 3103; 3112; 3161; 3502; 3771; 4176; 4303; 4304; 4406; 4407; 5097
BssHII	G!CGCGC	0	
BssKI	!CCNGG	24	88; 281; 655; 656; 1039; 1123; 1139; 1264; 1376; 1451; 1505; 2873; 2928; 2945; 3341; 3501; 3724; 4114; 4303; 4406; 4878; 5096; 5109; 5230
BssMI	!GATC	28	585; 609; 660; 734; 857; 1005; 1043; 1235; 1536; 1685; 1904; 1996; 3176; 3180; 3199; 3510; 3588; 3669; 3678; 3756; 4132; 4148; 4507; 4519; 4597; 4605; 4616; 4691
BssNI	GR!CGYC	7	122; 175; 258; 444; 3339; 4041; 4120
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4057; 5084
BssSI	C!TCGTG	2	1276; 3931
BssTII	C!CWWGG	5	360; 3068; 3161; 3771; 4176
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	3	2806; 3683; 3893
Bst98I	C!TTAAG	1	2221
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	7	122; 175; 258; 444; 3339; 4041; 4120
BstAFI	C!TTAAG	1	2221
BstAPI	GCANNNN!NTGC	3	2906; 2978; 4440
BstAUI	T!GTACA	1	1067
BstBI	TT!CGAA	2	627; 4021
Bst2BI	C!ACGAG	2	4057; 5084
Bst2BI	C!TCGTG	2	1276; 3931
BstBAI	YAC!GTR	3	340; 2455; 3643
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 645; 1635; 2430; 3719; 3835; 3943; 4266; 4757; 5227; 5298
BstC8I	GCN!NGC	33	86; 279; 593; 653; 886; 893; 1219; 1252; 1314; 2558; 2601; 2615; 2888; 2907; 2960; 2979; 3233; 3419; 3638; 3704; 3710; 3742; 3783; 3787; 3841; 4124; 4311; 4358; 4414; 4436; 4647; 5207; 5244
BstDEI	C!TNAG	11	606; 790; 961; 979; 1866; 2819; 3121; 4002; 4451; 4574; 4983
BstDSI	C!CRYGG	4	360; 649; 3068; 3771
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	7	1083; 1704; 1821; 3199; 3656; 3681; 4135
BstF5I	!CATCC	3	1136; 1502; 3025
BstFNI	CG!CG	19	60; 651; 1004; 1424; 1533; 1988; 2263; 2639; 2659; 2683; 2714; 3405; 3706; 4144; 4228; 4291; 4360; 4633; 5214
BstH2I	RGCGC!Y	5	598; 2606; 2614; 3342; 5017
BstHHI	GCG!C	24	597; 1004; 1385; 1426; 2605; 2613; 2639; 2661; 2670; 2683; 2714; 3333; 3341; 3405; 3442; 3708; 3968; 4144; 4230; 4633; 4742; 4916; 5016; 5083
BstKTI	GAT!C	28	588; 612; 663; 737; 860; 1008; 1046; 1238; 1539; 1688; 1907; 1999; 3179; 3183; 3202; 3513; 3591; 3672; 3681; 3759; 4135; 4151; 4510; 4522; 4600; 4608; 4619; 4694
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	5	1922; 2763; 3181; 4200; 4328
BstMBI	!GATC	28	585; 609; 660; 734; 857; 1005; 1043; 1235; 1536; 1685; 1904; 1996; 3176; 3180; 3199; 3510; 3588; 3669; 3678; 3756; 4132; 4148; 4507; 4519; 4597; 4605; 4616; 4691
BstMCI	CGRY!CG	4	671; 1986; 3248; 4923
BstMWI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 775; 1100; 1187; 1247; 1260; 1304; 1539; 2566; 2596; 2623; 2665; 2906; 2978; 3029; 3108; 3330; 3414; 3437; 3576; 3699; 3782; 4049; 4236; 4440; 4639; 5211
BstNI	CC!WGG	16	90; 283; 1141; 1266; 1378; 1453; 1507; 2875; 2930; 2947; 3726; 4305; 4408; 5098; 5111; 5232
BstNSI	RCATG!Y	4	2909; 2981; 3744; 5261
BstOI	CC!WGG	16	90; 283; 1141; 1266; 1378; 1453; 1507; 2875; 2930; 2947; 3726; 4305; 4408; 5098; 5111; 5232
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSCI	!CCNGG	24	88; 281; 655; 656; 1039; 1123; 1139; 1264; 1376; 1451; 1505; 2873; 2928; 2945; 3341; 3501; 3724; 4114; 4303; 4406; 4878; 5096; 5109; 5230
BstSFI	C!TRYAG	5	634; 779; 2674; 4801; 4992
BstSLI	GKGCMI!C	7	657; 1136; 1265; 1514; 3285; 3378; 4947
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 651; 1004; 1424; 1533; 1988; 2263; 2639; 2659; 2683; 2714; 3405; 3706; 4144; 4228; 4291; 4360; 4633; 5214
Bst2UI	CC!WGG	16	90; 283; 1141; 1266; 1378; 1453; 1507; 2875; 2930; 2947; 3726; 4305; 4408; 5098; 5111; 5232
BstV1I	GCAGCNNNNNNNN!	10	893; 1112; 1347; 1849; 2127; 3412; 3454; 3975; 4428; 4928
BstV1I	!NNNNNNNNNNNGCTGC	8	926; 1241; 2621; 3286; 3470; 3563; 4629; 4835
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	12	585; 609; 660; 734; 857; 3510; 3756; 4148; 4507; 4519; 4605; 4616
BstYI	R!GATCY	12	585; 609; 660; 734; 857; 3510; 3756; 4148; 4507; 4519; 4605; 4616
BstZI	C!GGCCG	2	1983; 3245
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2768; 3558; 5059
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3179
Bsu36I	CC!TNAGG	2	2819; 4451
BsuRI	GG!CC	27	84; 277; 655; 820; 847; 932; 1169; 1269; 1298; 1985; 2305; 2447; 3102; 3108; 3117; 3160; 3247; 3421; 3812; 3839; 4348; 4405; 4438; 4783; 5217; 5235; 5246
BsuTUI	AT!CGAT	1	3179
BtgI	C!CRYGG	4	360; 649; 3068; 3771
BtgZI	GCGATGNNNNNNNNNN!	4	1217; 1616; 2456; 3791
BtgZI	!NNNNNNNNNNNNNNNCATCGC	3	334; 3610; 3954
BthCI	GCNG!C	37	884; 891; 942; 945; 1039; 1103; 1257; 1338; 1840; 1988; 2118; 2637; 2659; 2673; 3111; 3250; 3302; 3313; 3403; 3408; 3445; 3486; 3573; 3579; 3815; 3911; 3952; 3966; 4080; 4419; 4434; 4645; 4851; 4854; 4919; 5062; 5217
BtrI	CAC!GTC	2	742; 1854
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2178
BtsCI	GGATGNN!	7	1083; 1704; 1821; 3199; 3656; 3681; 4135
BtsCI	!CATCC	3	1136; 1502; 3025
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3607; 4057
BveI	!NNNNNNNNNGCAGGT	1	3226
Cac8I	GCN!NGC	33	86; 279; 593; 653; 886; 893; 1219; 1252; 1314; 2558; 2601; 2615; 2888; 2907; 2960; 2979; 3233; 3419; 3638; 3704; 3710; 3742; 3783; 3787; 3841; 4124; 4311; 4358; 4414; 4436; 4647; 5207; 5244
CaiI	CAGNNN!CTG	3	1669; 4440; 4848
CciI	T!CATGA	4	1637; 1856; 2765; 4537
CciNI	GC!GGCCGC	1	1983
CdiI	CATC!G	8	352; 924; 1467; 1482; 3628; 3633; 3831; 3972
CdiI	C!GATG	4	1203; 1602; 2442; 3777
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5211
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3000; 3042
CelII	GC!TNAGC	1	790
CfoI	GCG!C	24	597; 1004; 1385; 1426; 2605; 2613; 2639; 2661; 2670; 2683; 2714; 3333; 3341; 3405; 3442; 3708; 3968; 4144; 4230; 4633; 4742; 4916; 5016; 5083
CfrI	Y!GGCCR	7	818; 1167; 1983; 3245; 3419; 3810; 3837
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	7	666; 1096; 1246; 2556; 3658; 3839; 4122
Cfr13I	G!GNCC	13	83; 276; 654; 726; 931; 1014; 1268; 2446; 3855; 4300; 4346; 4404; 4437
Cfr42I	CCGC!GG	1	652



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
ChaI	GATC!	28	589; 613; 664; 738; 861; 1009; 1047; 1239; 1540; 1689; 1908; 2000; 3180; 3184; 3203; 3514; 3592; 3673; 3682; 3760; 4136; 4152; 4511; 4523; 4601; 4609; 4620; 4695
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	4	3156; 4596; 4696; 4774
CjeI	!NNNNNNNNNACNNNNNTGG	7	64; 257; 2823; 2918; 4110; 4660; 5215
CjeI	ACNNNNNTTGGNNNNNNNNNNNNNN!	7	98; 291; 2857; 2952; 4144; 4694; 5249
CjeI	!NNNNNNNNCCANNNNNNGT	4	3122; 4562; 4662; 4740
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	3	754; 4596; 4774
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 4110; 4709
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 4143; 4742
CjePI	!NNNNNNNNCCANNNNNNTC	3	721; 4563; 4741
Clal	AT!CGAT	1	3179
CpoI	CG!GWCCG	1	3855
CseI	GACGCNNNNN!	3	526; 4049; 4128
CseI	!NNNNNNNNNNGCGTC	3	2672; 4567; 5145
CsiI	A!CCWGGT	1	2928
CspI	CG!GWCCG	1	3855
Csp6I	G!TAC	11	218; 243; 298; 331; 382; 539; 646; 1068; 1524; 1957; 3644
Csp45I	TT!CGAA	2	627; 4021
CspAI	A!CCGGT	1	666
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1514; 2619; 4228
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	23	301; 361; 678; 816; 1011; 1056; 1329; 1359; 1638; 1857; 2766; 2906; 2978; 3069; 3210; 3555; 3741; 3772; 3798; 4154; 4538; 5258; 5309
CviJI	RG!CY	101	42; 84; 93; 277; 566; 618; 624; 655; 778; 789; 794; 820; 847; 891; 932; 965; 1065; 1116; 1149; 1169; 1221; 1233; 1254; 1269; 1292; 1298; 1370; 1470; 1484; 1518; 1542; 1576; 1669; 1750; 1985; 2008; 2118; 2285; 2305; 2447; 2528; 2542; 2556; 2837; 2878; 2950; 3073; 3102; 3108; 3117; 3125; 3148; 3160; 3166; 3247; 3264; 3272; 3299; 3324; 3408; 3417; 3421; 3445; 3483; 3559; 3576; 3595; 3658; 3702; 3712; 3729; 3812; 3839; 3843; 3880; 3903; 3919; 4099; 4126; 4187; 4309; 4348; 4405; 4412; 4419; 4438; 4449; 4700; 4729; 4772; 4783; 4848; 4927; 4952; 4957; 5003; 5093; 5191; 5217; 5235; 5246
CviKI-1	RG!CY	101	42; 84; 93; 277; 566; 618; 624; 655; 778; 789; 794; 820; 847; 891; 932; 965; 1065; 1116; 1149; 1169; 1221; 1233; 1254; 1269; 1292; 1298; 1370; 1470; 1484; 1518; 1542; 1576; 1669; 1750; 1985; 2008; 2118; 2285; 2305; 2447; 2528; 2542; 2556; 2837; 2878; 2950; 3073; 3102; 3108; 3117; 3125; 3148; 3160; 3166; 3247; 3264; 3272; 3299; 3324; 3408; 3417; 3421; 3445; 3483; 3559; 3576; 3595; 3658; 3702; 3712; 3729; 3812; 3839; 3843; 3880; 3903; 3919; 4099; 4126; 4187; 4309; 4348; 4405; 4412; 4419; 4438; 4449; 4700; 4729; 4772; 4783; 4848; 4927; 4952; 4957; 5003; 5093; 5191; 5217; 5235; 5246
CviQI	G!TAC	11	218; 243; 298; 331; 382; 539; 646; 1068; 1524; 1957; 3644
DdeI	C!TNAG	11	606; 790; 961; 979; 1866; 2819; 3121; 4002; 4451; 4574; 4983
DinI	GGC!GCC	1	3340
DpnI	GA!TC	28	587; 611; 662; 736; 859; 1007; 1045; 1237; 1538; 1687; 1906; 1998; 3178; 3182; 3201; 3512; 3590; 3671; 3680; 3758; 4134; 4150; 4509; 4521; 4599; 4607; 4618; 4693
DpnII	!GATC	28	585; 609; 660; 734; 857; 1005; 1043; 1235; 1536; 1685; 1904; 1996; 3176; 3180; 3199; 3510; 3588; 3669; 3678; 3756; 4132; 4148; 4507; 4519; 4597; 4605; 4616; 4691
DraI	TTT!AAA	3	2041; 4483; 4502
DraII	RG!GNCCY	1	4437
DraIII	CACNNN!GTG	1	2455
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 1424; 4819
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	4	1936; 2410; 3366; 5155
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	2	476; 724
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	1936; 2410; 3366; 5155

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EaeI	Y!GGCCR	7	818; 1167; 1983; 3245; 3419; 3810; 3837
EagI	C!GGCCG	2	1983; 3245
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2806; 3683; 3893
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	2806; 3683; 3893
EciI	GGCGGANNNNNNNNNN!	4	2839; 3868; 5055; 5201
EciI	!NNNNNNNNNTCCGCC	6	496; 850; 1344; 3010; 3031; 3052
Ecl136II	GAG!CTC	2	618; 794
EclXI	C!GGCCG	2	1983; 3245
Eco24I	GRGCY!C	6	620; 657; 796; 2530; 3704; 4414
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	4328
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	726; 1014; 3855; 4300
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1983; 3245
Eco57I	CTGAAGNNNNNNNNNNNNNN!	5	1249; 1321; 1492; 3485; 3917
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4715
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	2	2819; 4451
Eco88I	C!YCGRG	3	613; 656; 799
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	5	360; 3068; 3161; 3771; 4176
Eco147I	AGG!CCT	1	3160
EcoHI	!CCSGG	8	655; 656; 1039; 1123; 3341; 3501; 4114; 4878
EcoICRI	GAG!CTC	2	618; 794
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	8	1042; 1249; 1321; 1492; 1540; 3485; 3917; 4179
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	2	4122; 4715
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	4437
EcoRI	G!AATTC	3	629; 1564; 1951
EcoRII	!CCWGG	16	88; 281; 1139; 1264; 1376; 1451; 1505; 2873; 2928; 2945; 3724; 4303; 4406; 5096; 5109; 5230
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	360; 3068; 3161; 3771; 4176
EcoT22I	ATGCA!T	3	2911; 2983; 5314
EcoT38I	GRGCY!C	6	620; 657; 796; 2530; 3704; 4414
Eco53kI	GAG!CTC	2	618; 794
EgeI	GGC!GCC	1	3340
EheI	GGC!GCC	1	3340
ErhI	C!CWWGG	5	360; 3068; 3161; 3771; 4176
EsaBC3I	TC!GA	19	615; 628; 641; 801; 873; 1146; 1440; 1467; 2489; 3180; 3453; 3609; 3633; 3669; 3831; 4022; 4067; 4322; 5160
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	1	1922
FaeI	CATG!	23	304; 364; 681; 819; 1014; 1059; 1332; 1362; 1641; 1860; 2769; 2909; 2981; 3072; 3213; 3558; 3744; 3775; 3801; 4157; 4541; 5261; 5312
Fail	YA!TR	66	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 691; 781; 812; 817; 1012; 1057; 1330; 1360; 1639; 1684; 1744; 1829; 1858; 1946; 2001; 2011; 2077; 2122; 2327; 2755; 2767; 2898; 2907; 2970; 2979; 3003; 3070; 3094; 3211; 3275; 3556; 3581; 3742; 3773; 3799; 3871; 4087; 4155; 4233; 4285; 4446; 4463; 4465; 4467; 4539; 4817; 5006; 5122; 5195; 5259; 5310
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	3	867; 1593; 3679
FalI	!NNNNNNNNAAGNNNNNCTT	3	835; 1561; 3647
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3490; 4022; 4131
FaqI	!NNNNNNNNNNNNNGTCCC	4	2855; 2927; 2991; 4286
FatI	!CATG	23	300; 360; 677; 815; 1010; 1055; 1328; 1358; 1637; 1856; 2765; 2905; 2977; 3068; 3209; 3554; 3740; 3771; 3797; 4153; 4537; 5257; 5308

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FauI	CCCGCNNNN!	10	93; 119; 286; 1321; 1429; 2661; 3016; 3037; 4233; 4365
FauI	!NNNNNNGCGGG	6	644; 2592; 3462; 3999; 4137; 4284
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	3	1536; 1685; 1904
FblI	GT!MKAC	1	640
FmuI	GGNC!C	13	86; 279; 657; 729; 934; 1017; 1271; 2449; 3858; 4303; 4349; 4407; 4440
Fnu4HI	GC!NGC	37	882; 889; 940; 943; 1037; 1101; 1255; 1336; 1838; 1986; 2116; 2635; 2657; 2671; 3109; 3248; 3300; 3311; 3401; 3406; 3443; 3484; 3571; 3577; 3813; 3909; 3950; 3964; 4078; 4417; 4432; 4643; 4849; 4852; 4917; 5060; 5215
FokI	GGATGNNNNNNNN!	7	1090; 1711; 1828; 3206; 3663; 3688; 4142
FokI	!NNNNNNNNNNNNNNCATCC	3	1123; 1489; 3012
FriOI	GRGCY!C	6	620; 657; 796; 2530; 3704; 4414
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3441
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1751; 1994; 2188; 2606; 3162; 4177; 4511; 4764
FspEI	CCNNNNNNNNNNNN!	166	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 714; 742; 834; 861; 877; 909; 930; 946; 960; 982; 1003; 1030; 1047; 1110; 1137; 1153; 1183; 1200; 1221; 1239; 1257; 1271; 1287; 1312; 1326; 1368; 1390; 1434; 1464; 1519; 1560; 1590; 1623; 1672; 1731; 1801; 1999; 2022; 2061; 2075; 2216; 2311; 2335; 2358; 2381; 2399; 2421; 2442; 2461; 2480; 2509; 2530; 2544; 2570; 2658; 2684; 2733; 2774; 2792; 2831; 2847; 2885; 2942; 2957; 3014; 3034; 3048; 3065; 3079; 3116; 3131; 3174; 3257; 3324; 3355; 3375; 3390; 3435; 3449; 3515; 3529; 3548; 3564; 3605; 3625; 3672; 3722; 3738; 3758; 3783; 3803; 3826; 3853; 3871; 3897; 3937; 3963; 3987; 4043; 4057; 4085; 4128; 4149; 4184; 4228; 4316; 4340; 4362; 4382; 4398; 4419; 4433; 4452; 4536; 4556; 4584; 4599; 4633; 4675; 4702; 4717; 4762; 4786; 4800; 4822; 4848; 4868; 4892; 4918; 4966; 4985; 5004; 5030; 5065; 5110; 5140; 5154; 5205; 5219; 5244; 5260; 5281; 5310
FspEI	!NNNNNNNNNNNNNNNGG	144	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 691; 709; 735; 767; 802; 821; 859; 908; 997; 1025; 1060; 1082; 1109; 1135; 1172; 1199; 1232; 1251; 1274; 1352; 1384; 1414; 1438; 1459; 1477; 1504; 1555; 1583; 1606; 1626; 1663; 1681; 1732; 1777; 1798; 1853; 1910; 1967; 2010; 2110; 2179; 2209; 2287; 2336; 2358; 2386; 2422; 2467; 2496; 2532; 2551; 2579; 2599; 2662; 2685; 2793; 2825; 2843; 2872; 2915; 2944; 3055; 3084; 3127; 3148; 3176; 3209; 3229; 3254; 3281; 3306; 3328; 3356; 3382; 3403; 3454; 3475; 3493; 3541; 3577; 3633; 3658; 3682; 3711; 3734; 3758; 3784; 3806; 3825; 3850; 3890; 3926; 3991; 4076; 4100; 4129; 4163; 4184; 4204; 4249; 4276; 4295; 4328; 4380; 4411; 4438; 4490; 4588; 4659; 4704; 4765; 4830; 4864; 4890; 4908; 4944; 5014; 5037; 5059; 5083; 5116; 5164; 5199; 5217; 5274
Fsp4HI	GC!NGC	37	882; 889; 940; 943; 1037; 1101; 1255; 1336; 1838; 1986; 2116; 2635; 2657; 2671; 3109; 3248; 3300; 3311; 3401; 3406; 3443; 3484; 3571; 3577; 3813; 3909; 3950; 3964; 4078; 4417; 4432; 4643; 4849; 4852; 4917; 5060; 5215
GdiII	C!GGCCR	3	1167; 1983; 3245
GdiII	Y!GGCCG	5	818; 1983; 3245; 3810; 3837
GlaI	GC!GC	24	596; 1003; 1384; 1425; 2604; 2612; 2638; 2660; 2669; 2682; 2713; 3332; 3340; 3404; 3441; 3707; 3967; 4143; 4229; 4632; 4741; 4915; 5015; 5082
Glul	GC!NGC	37	882; 889; 940; 943; 1037; 1101; 1255; 1336; 1838; 1986; 2116; 2635; 2657; 2671; 3109; 3248; 3300; 3311; 3401; 3406; 3443; 3484; 3571; 3577; 3813; 3909; 3950; 3964; 4078; 4417; 4432; 4643; 4849; 4852; 4917; 5060; 5215
GsaI	CCCAG!C	3	2886; 2958; 4957
GsaI	GCTGG!G	1	3847
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	1042; 1540; 4179
GsuI	!NNNNNNNNNNNNNNNNCTCCAG	1	4122
HaeI	WGG!CCW	6	847; 3160; 3421; 4783; 5235; 5246
HaeII	RGCGC!Y	5	598; 2606; 2614; 3342; 5017
HaeIII	GG!CC	27	84; 277; 655; 820; 847; 932; 1169; 1269; 1298; 1985; 2305; 2447; 3102; 3108; 3117; 3160; 3247; 3421; 3812; 3839; 4348; 4405; 4438; 4783; 5217; 5235; 5246

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	3	759; 2014; 3535
HaeIV	!NNNNNNNNNGAYNNNNNRTC	3	725; 1980; 3501
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	3	758; 2013; 3534
HaeIV	!NNNNNNNGAYNNNNNRTC	3	727; 1982; 3503
HapII	C!CGG	24	601; 657; 667; 1040; 1097; 1124; 1187; 1247; 2557; 3244; 3321; 3343; 3371; 3502; 3592; 3659; 3840; 4115; 4123; 4215; 4689; 4879; 4905; 5052
HgaI	GACGCNNNNN!	3	526; 4049; 4128
HgaI	!NNNNNNNNNNGCGTC	3	2672; 4567; 5145
HhaI	GCG!C	24	597; 1004; 1385; 1426; 2605; 2613; 2639; 2661; 2670; 2683; 2714; 3333; 3341; 3405; 3442; 3708; 3968; 4144; 4230; 4633; 4742; 4916; 5016; 5083
Hin1I	GR!CGYC	7	122; 175; 258; 444; 3339; 4041; 4120
Hin1II	CATG!	23	304; 364; 681; 819; 1014; 1059; 1332; 1362; 1641; 1860; 2769; 2909; 2981; 3072; 3213; 3558; 3744; 3775; 3801; 4157; 4541; 5261; 5312
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	758; 2013; 3534
Hin4I	!NNNNNNNNNGABNNNNNRTC	4	726; 1981; 3502; 3532
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	4	758; 2013; 3534; 3564
Hin4I	!NNNNNNNNNGAYNNNNNVTC	3	726; 1981; 3502
Hin6I	G!CGC	24	595; 1002; 1383; 1424; 2603; 2611; 2637; 2659; 2668; 2681; 2712; 3331; 3339; 3403; 3440; 3706; 3966; 4142; 4228; 4631; 4740; 4914; 5014; 5081
HinP1I	G!CGC	24	595; 1002; 1383; 1424; 2603; 2611; 2637; 2659; 2668; 2681; 2712; 3331; 3339; 3403; 3440; 3706; 3966; 4142; 4228; 4631; 4740; 4914; 5014; 5081
HincII	GTY!RAC	3	641; 1941; 2102
HindII	GTY!RAC	3	641; 1941; 2102
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	14	410; 604; 1802; 1990; 2382; 2404; 2814; 3824; 3958; 4010; 4068; 4105; 4887; 5283
HpaI	GTT!AAC	1	2102
HpaII	C!CGG	24	601; 657; 667; 1040; 1097; 1124; 1187; 1247; 2557; 3244; 3321; 3343; 3371; 3502; 3592; 3659; 3840; 4115; 4123; 4215; 4689; 4879; 4905; 5052
HphI	GGTGANNNNNNNN!	5	376; 1443; 1467; 4410; 4526
HphI	!NNNNNNNTCACC	3	1113; 2456; 3517
Hpy8I	GTN!NAC	13	201; 539; 577; 641; 1121; 1164; 1458; 1941; 2102; 2386; 2403; 2458; 4945
Hpy99I	CGWCG!	13	645; 746; 874; 931; 1162; 1408; 3429; 3457; 3751; 3766; 4043; 4428; 5161
Hpy166II	GTN!NAC	13	201; 539; 577; 641; 1121; 1164; 1458; 1941; 2102; 2386; 2403; 2458; 4945
Hpy188I	TCN!GA	16	585; 609; 775; 1655; 1801; 1909; 2513; 3122; 3306; 3650; 4003; 4104; 4583; 4717; 5070; 5148
Hpy188III	TC!NNGA	28	613; 801; 855; 978; 1029; 1278; 1638; 1857; 1994; 2766; 2818; 3131; 3184; 3357; 3673; 3682; 3765; 3821; 3865; 3955; 3988; 4057; 4538; 4612; 4695; 4793; 4891; 5025
HpyAV	CCTTCNNNNNN!	4	1587; 3984; 4091; 4770
HpyAV	!NNNNNGAAGG	9	1360; 1467; 2572; 3467; 4196; 4212; 4395; 4712; 5022
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 645; 1635; 2430; 3719; 3835; 3943; 4266; 4757; 5227; 5298
HpyCH4IV	A!CGT	22	122; 134; 175; 258; 339; 444; 741; 806; 869; 1073; 1160; 1373; 1848; 1853; 2399; 2411; 2454; 2564; 3455; 3642; 4423; 4556
HpyCH4V	TG!CA	22	636; 888; 1241; 1677; 1837; 1972; 2088; 2115; 2183; 2900; 2909; 2972; 2981; 3096; 3172; 3231; 3390; 3565; 3579; 4649; 4945; 5312
HpyF3I	C!TNAG	11	606; 790; 961; 979; 1866; 2819; 3121; 4002; 4451; 4574; 4983
HpyF10VI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 775; 1100; 1187; 1247; 1260; 1304; 1539; 2566; 2596; 2623; 2665; 2906; 2978; 3029; 3108; 3330; 3414; 3437; 3576; 3699; 3782; 4049; 4236; 4440; 4639; 5211
Hsp92I	GR!CGYC	7	122; 175; 258; 444; 3339; 4041; 4120
Hsp92II	CATG!	23	304; 364; 681; 819; 1014; 1059; 1332; 1362; 1641; 1860; 2769; 2909; 2981; 3072; 3213; 3558; 3744; 3775; 3801; 4157; 4541; 5261; 5312

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HspAI	G!CGC	24	595; 1002; 1383; 1424; 2603; 2611; 2637; 2659; 2668; 2681; 2712; 3331; 3339; 3403; 3440; 3706; 3966; 4142; 4228; 4631; 4740; 4914; 5014; 5081
KasI	G!GCGCC	1	3338
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	649
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	652
Ksp22I	T!GATCA	3	1536; 1685; 1904
KspAI	GTT!AAC	1	2102
Kzo9I	!GATC	28	585; 609; 660; 734; 857; 1005; 1043; 1235; 1536; 1685; 1904; 1996; 3176; 3180; 3199; 3510; 3588; 3669; 3678; 3756; 4132; 4148; 4507; 4519; 4597; 4605; 4616; 4691
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	3683; 3893
LpnI	RGC!GCGY	5	596; 2604; 2612; 3340; 5015
LpnPI	CCDGNNNNNNNNNN!	64	102; 295; 614; 670; 919; 973; 991; 1030; 1053; 1110; 1137; 1153; 1200; 1240; 1260; 1278; 1312; 1390; 1465; 1519; 2076; 2381; 2570; 2793; 2831; 2847; 2887; 2942; 2959; 3059; 3144; 3257; 3334; 3356; 3379; 3515; 3529; 3548; 3605; 3672; 3722; 3738; 3795; 3853; 4062; 4128; 4152; 4228; 4317; 4420; 4453; 4684; 4702; 4848; 4868; 4892; 4918; 4967; 5065; 5110; 5140; 5219; 5244; 5281
LpnPI	!NNNNNNNNNNNNNCHGG	61	75; 268; 552; 586; 642; 691; 746; 1006; 1025; 1082; 1109; 1135; 1172; 1232; 1251; 1363; 1438; 1492; 1633; 1663; 2422; 2542; 2599; 2662; 2860; 2872; 2932; 2944; 3176; 3221; 3264; 3306; 3328; 3356; 3403; 3465; 3487; 3577; 3644; 3667; 3711; 3806; 3825; 3850; 3999; 4100; 4143; 4200; 4290; 4393; 4420; 4438; 4674; 4711; 4864; 4890; 5030; 5048; 5083; 5164; 5217
Lsp1109I	GCAGCNNNNNNNN!	10	893; 1112; 1347; 1849; 2127; 3412; 3454; 3975; 4428; 4928
Lsp1109I	!NNNNNNNNNNNGCTGC	8	926; 1241; 2621; 3286; 3470; 3563; 4629; 4835
LweI	GCATCNNNNN!	9	848; 1472; 1487; 2155; 2918; 2990; 3638; 3702; 3977
LweI	!NNNNNNNNNGATGC	7	357; 1194; 1689; 3297; 3552; 3768; 5160
MabI	A!CCWGGT	1	2928
MaeI	C!TAG	9	592; 1751; 1994; 2188; 2606; 3162; 4177; 4511; 4764
MaeII	A!CGT	22	122; 134; 175; 258; 339; 444; 741; 806; 869; 1073; 1160; 1373; 1848; 1853; 2399; 2411; 2454; 2564; 3455; 3642; 4423; 4556
MaeIII	!GTNAC	17	61; 148; 497; 763; 1029; 1278; 1643; 1849; 2127; 2628; 2640; 3459; 3765; 4455; 4721; 4837; 4900
MalI	GA!TC	28	587; 611; 662; 736; 859; 1007; 1045; 1237; 1538; 1687; 1906; 1998; 3178; 3182; 3201; 3512; 3590; 3671; 3680; 3758; 4134; 4150; 4509; 4521; 4599; 4607; 4618; 4693
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	5	144; 197; 466; 540; 1746
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2763; 3952
MbiI	GAG!CGG	2	2599; 4006
MboI	!GATC	28	585; 609; 660; 734; 857; 1005; 1043; 1235; 1536; 1685; 1904; 1996; 3176; 3180; 3199; 3510; 3588; 3669; 3678; 3756; 4132; 4148; 4507; 4519; 4597; 4605; 4616; 4691
MboII	GAAGANNNNNNNN!	11	707; 843; 1561; 1789; 1900; 1960; 2595; 2823; 3700; 3910; 4529
MboII	!NNNNNNNTCTTC	6	1338; 1383; 3990; 4157; 4357; 4600
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2089
MfII	R!GATCY	12	585; 609; 660; 734; 857; 3510; 3756; 4148; 4507; 4519; 4605; 4616
MhII	GDGCH!C	14	620; 657; 796; 1136; 1265; 1514; 2530; 3285; 3378; 3452; 3642; 3704; 4414; 4947
MIsI	TGG!CCA	1	3421
MluI	A!CGCGT	1	1531
MluNI	TGG!CCA	1	3421
MlyI	GAGTCNNNNN!	3	1811; 2391; 2823
MlyI	!NNNNNGACTC	6	404; 598; 1984; 2398; 4004; 4881
Mly113I	GG!CGCC	1	3339
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	2432
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4864; 5048

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MnII	CCTC>NNNNNNN!	9	1285; 1297; 2058; 3122; 3940; 4146; 4460; 4830; 5154
MnII	!NNNNNNGAGG	22	541; 717; 867; 1104; 1185; 1422; 1434; 1485; 1634; 1785; 2018; 2483; 2814; 3092; 3135; 3150; 3190; 3254; 3390; 3747; 4177; 5080
Mph1103I	ATGCA!T	3	2911; 2983; 5314
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	2556; 3839; 4122
MroXI	GAANN!NNTTC	1	1306
MscI	TGG!CCA	1	3421
MseI	T!TAA	15	7; 2040; 2101; 2222; 2243; 2254; 2266; 2277; 2294; 2392; 2663; 4482; 4496; 4501; 4553
MslI	CAYNN!NNRTG	5	365; 1126; 1276; 1453; 3776
MspI	C!CGG	24	601; 657; 667; 1040; 1097; 1124; 1187; 1247; 2557; 3244; 3321; 3343; 3371; 3502; 3592; 3659; 3840; 4115; 4123; 4215; 4689; 4879; 4905; 5052
Msp20I	TGG!CCA	1	3421
MspA1I	CMG!CKG	6	651; 1542; 2837; 3445; 4674; 4919
MspCI	C!TTAAG	1	2221
MspJI	CNNRNNNNNNNNN!	271	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; 713; 741; 757; 773; 786; 802; 828; 841; 855; 877; 897; 918; 931; 946; 959; 972; 990; 1003; 1021; 1041; 1063; 1086; 1109; 1122; 1136; 1152; 1173; 1194; 1209; 1223; 1239; 1259; 1272; 1288; 1311; 1325; 1339; 1362; 1375; 1389; 1410; 1428; 1452; 1465; 1479; 1500; 1518; 1531; 1544; 1559; 1574; 1596; 1626; 1639; 1660; 1676; 1690; 1715; 1741; 1763; 1781; 1801; 1824; 1853; 1869; 1891; 1920; 1944; 1968; 1985; 1999; 2012; 2027; 2046; 2063; 2076; 2117; 2131; 2144; 2162; 2200; 2215; 2233; 2274; 2298; 2318; 2336; 2357; 2380; 2412; 2427; 2449; 2467; 2480; 2501; 2518; 2531; 2544; 2560; 2573; 2603; 2618; 2643; 2661; 2674; 2689; 2713; 2727; 2751; 2776; 2792; 2830; 2846; 2885; 2899; 2913; 2941; 2957; 2971; 2985; 3014; 3027; 3048; 3057; 3079; 3109; 3125; 3143; 3173; 3196; 3220; 3244; 3263; 3291; 3317; 3333; 3346; 3369; 3383; 3403; 3416; 3430; 3449; 3463; 3476; 3492; 3507; 3520; 3536; 3551; 3567; 3592; 3611; 3627; 3640; 3653; 3671; 3685; 3699; 3715; 3737; 3753; 3772; 3794; 3810; 3833; 3852; 3866; 3882; 3896; 3916; 3932; 3945; 3967; 4000; 4014; 4034; 4047; 4061; 4115; 4128; 4151; 4164; 4183; 4200; 4227; 4263; 4296; 4315; 4340; 4361; 4388; 4401; 4418; 4432; 4447; 4463; 4523; 4548; 4564; 4586; 4599; 4613; 4644; 4658; 4683; 4701; 4716; 4729; 4748; 4761; 4776; 4805; 4824; 4842; 4867; 4882; 4901; 4917; 4936; 4954; 4970; 4984; 5003; 5030; 5053; 5075; 5094; 5109; 5122; 5139; 5159; 5186; 5199; 5218; 5243; 5266; 5280; 5293; 5310
MspJI	!NNNNNNNNNNNNNYNG	222	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; 676; 709; 726; 747; 768; 785; 802; 829; 846; 871; 892; 909; 932; 955; 982; 1003; 1026; 1048; 1083; 1110; 1127; 1159; 1177; 1199; 1224; 1244; 1262; 1280; 1299; 1325; 1345; 1363; 1384; 1402; 1424; 1453; 1474; 1492; 1516; 1555; 1574; 1613; 1634; 1664; 1715; 1737; 1773; 1793; 1818; 1838; 1893; 1922; 1940; 1973; 1991; 2020; 2049; 2091; 2174; 2209; 2236; 2259; 2288; 2332; 2354; 2386; 2422; 2439; 2460; 2497; 2517; 2534; 2551; 2586; 2604; 2622; 2639; 2663; 2685; 2712; 2740; 2766; 2804; 2825; 2842; 2860; 2883; 2904; 2932; 2955; 2976; 2994; 3015; 3032; 3055; 3079; 3099; 3117; 3139; 3170; 3192; 3218; 3237; 3254; 3282; 3301; 3320; 3338; 3356; 3377; 3399; 3423; 3456; 3476; 3494; 3515; 3541; 3568; 3585; 3602; 3619; 3645; 3667; 3689; 3707; 3727; 3746; 3768; 3806; 3826; 3850; 3870; 3890; 3917; 3941; 3974; 3993; 4021; 4043; 4072; 4100; 4125; 4144; 4163; 4184; 4201; 4218; 4249; 4276; 4296; 4319; 4339; 4376; 4393; 4412; 4438; 4458; 4497; 4524; 4543; 4561; 4598; 4616; 4657; 4675; 4701; 4718; 4750; 4779; 4807; 4828; 4851; 4870; 4891; 4909; 4926; 4944; 4970; 4991; 5011; 5031; 5049; 5070; 5096; 5113; 5132; 5151; 5180; 5199; 5217; 5236; 5254; 5272; 5295
MspR9I	CC!NGG	24	90; 283; 657; 658; 1041; 1125; 1141; 1266; 1378; 1453; 1507; 2875; 2930; 2947; 3343; 3503; 3726; 4116; 4305; 4408; 4880; 5098; 5111; 5232

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2089
MvaI	CC!WGG	16	90; 283; 1141; 1266; 1378; 1453; 1507; 2875; 2930; 2947; 3726; 4305; 4408; 5098; 5111; 5232
Mva1269I	GAATGCN!	1	2090
Mva1269I	G!CATTC	2	1795; 2183
MvnI	CG!CG	19	60; 651; 1004; 1424; 1533; 1988; 2263; 2639; 2659; 2683; 2714; 3405; 3706; 4144; 4228; 4291; 4360; 4633; 5214
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 775; 1100; 1187; 1247; 1260; 1304; 1539; 2566; 2596; 2623; 2665; 2906; 2978; 3029; 3108; 3330; 3414; 3437; 3576; 3699; 3782; 4049; 4236; 4440; 4639; 5211
NaeI	GCC!GGC	3	2558; 3841; 4124
NarI	GG!CGCC	1	3339
NciI	CC!SGG	8	657; 658; 1041; 1125; 3343; 3503; 4116; 4880
NcoI	C!CATGG	3	360; 3068; 3771
NdeI	CA!TATG	1	234
NdeII	!GATC	28	585; 609; 660; 734; 857; 1005; 1043; 1235; 1536; 1685; 1904; 1996; 3176; 3180; 3199; 3510; 3588; 3669; 3678; 3756; 4132; 4148; 4507; 4519; 4597; 4605; 4616; 4691
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	2556; 3839; 4122
NheI	G!CTAGC	1	591
NlaIII	CATG!	23	304; 364; 681; 819; 1014; 1059; 1332; 1362; 1641; 1860; 2769; 2909; 2981; 3072; 3213; 3558; 3744; 3775; 3801; 4157; 4541; 5261; 5312
NlaIV	GGN!NCC	22	467; 647; 655; 662; 933; 1095; 1133; 1608; 1716; 2494; 2515; 2527; 2718; 2879; 2951; 3340; 3375; 4223; 4302; 4347; 5190; 5229
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	1635; 2171; 2486; 4078
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 5150
Nli3877I	CYCGR!G	3	617; 660; 803
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1452; 3128; 3564
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	3	1031; 1268; 3093
NmeDI	RCCGGYNNNNNNN!	7	678; 1108; 1258; 2568; 3670; 3851; 4134
NmeDI	!NNNNNNNNNNNNRCCGGY	7	653; 1083; 1233; 2543; 3645; 3826; 4109
NmuCI	!GTSAC	8	763; 1029; 1278; 1643; 1849; 2628; 3459; 3765
NotI	GC!GGCCGC	1	1983
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3441
NsiI	ATGCA!T	3	2911; 2983; 5314
NspI	RCATG!Y	4	2909; 2981; 3744; 5261
NspV	TT!CGAA	2	627; 4021
OliI	CACNN!NNGTG	3	1126; 1276; 1453
PabI	GTA!C	11	220; 245; 300; 333; 384; 541; 648; 1070; 1526; 1959; 3646
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2909; 2981; 3744
PaeR7I	C!TCGAG	2	613; 799
PagI	T!CATGA	4	1637; 1856; 2765; 4537
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4304; 4407
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	3160
PciI	A!CATGT	1	5257
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3683; 3893
PcsI	WCGNNNN!NNNCGW	8	1001; 1058; 3633; 3710; 3953; 4027; 4420; 4938
PctI	GAATGCN!	1	2090
PctI	G!CATTC	2	1795; 2183
PdiI	GCC!GGC	3	2558; 3841; 4124
PdmI	GAANN!NNTTC	1	1306
PfeI	G!AWTC	5	3824; 3958; 4068; 4105; 5283

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3457
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	2	1376; 4114
PhoI	GG!CC	27	84; 277; 655; 820; 847; 932; 1169; 1269; 1298; 1985; 2305; 2447; 3102; 3108; 3117; 3160; 3247; 3421; 3812; 3839; 4348; 4405; 4438; 4783; 5217; 5235; 5246
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	3720
PlaDI	!NNNNNNNNNNNNNNNNNNNCTGATG	3	1683; 3285; 3540
PleI	GAGTCNNNN!	3	1810; 2390; 2822
PleI	!NNNNNGACTC	6	404; 598; 1984; 2398; 4004; 4881
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2421
PpiI	!NNNNNNNNNGAGNNNNNGTTC	3	1102; 1420; 4551
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	3	1134; 1452; 4583
PpiI	!NNNNNNNGAACNNNNNNNCTC	1	2389
PpsI	GAGTCNNNN!	3	1810; 2390; 2822
PpsI	!NNNNNGACTC	6	404; 598; 1984; 2398; 4004; 4881
Ppu10I	A!TGCAT	3	2907; 2979; 5310
Ppu21I	YAC!GTR	3	340; 2455; 3643
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	5257
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2122; 2327
Psp03I	GGWC!C	4	729; 1017; 3858; 4303
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	16	88; 281; 1139; 1264; 1376; 1451; 1505; 2873; 2928; 2945; 3724; 4303; 4406; 5096; 5109; 5230
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	2	620; 796
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	16	88; 281; 1139; 1264; 1376; 1451; 1505; 2873; 2928; 2945; 3724; 4303; 4406; 5096; 5109; 5230
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 647; 655; 662; 933; 1095; 1133; 1608; 1716; 2494; 2515; 2527; 2718; 2879; 2951; 3340; 3375; 4223; 4302; 4347; 5190; 5229
PspOMI	G!GGCCC	1	653
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 3069; 4068
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3471
PspPI	G!GNCC	13	83; 276; 654; 726; 931; 1014; 1268; 2446; 3855; 4300; 4346; 4404; 4437
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	2892; 2964; 4470
PspPRI	!NNNNNNNNNNNNNNNNNCTGRGG	3	1493; 2805; 4000
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	4440
PstI	CTGCA!G	1	638
PstNI	CAGNNN!CTG	3	1669; 4440; 4848
PsuI	R!GATCY	12	585; 609; 660; 734; 857; 3510; 3756; 4148; 4507; 4519; 4605; 4616
Psyl	GACN!NNGTC	1	3457
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1542; 2837; 3445
RcaI	T!CATGA	4	1637; 1856; 2765; 4537



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	3854
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	2068
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCCGAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	1	899
RpaB5I	!NNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	11	219; 244; 299; 332; 383; 540; 647; 1069; 1525; 1958; 3645
RsaNI	G!TAC	11	218; 243; 298; 331; 382; 539; 646; 1068; 1524; 1957; 3644
RseI	CAYNN!NNRTG	5	365; 1126; 1276; 1453; 3776
RsrII	CG!GWCCG	1	3855
Rsr2I	CG!GWCCG	1	3855
SacI	GAGCT!C	2	620; 796
SacII	CCGC!GG	1	652
SaI	G!TCGAC	1	639
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	3683; 3893
SaqAI	T!TAA	15	7; 2040; 2101; 2222; 2243; 2254; 2266; 2277; 2294; 2392; 2663; 4482; 4496; 4501; 4553
SatI	GC!NGC	37	882; 889; 940; 943; 1037; 1101; 1255; 1336; 1838; 1986; 2116; 2635; 2657; 2671; 3109; 3248; 3300; 3311; 3401; 3406; 3443; 3484; 3571; 3577; 3813; 3909; 3950; 3964; 4078; 4417; 4432; 4643; 4849; 4852; 4917; 5060; 5215
Sau96I	G!GNCC	13	83; 276; 654; 726; 931; 1014; 1268; 2446; 3855; 4300; 4346; 4404; 4437
Sau3AI	!GATC	28	585; 609; 660; 734; 857; 1005; 1043; 1235; 1536; 1685; 1904; 1996; 3176; 3180; 3199; 3510; 3588; 3669; 3678; 3756; 4132; 4148; 4507; 4519; 4597; 4605; 4616; 4691
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	1811; 2391; 2823
SchI	!NNNNNGACTC	6	404; 598; 1984; 2398; 4004; 4881
SciI	CTC!GAG	2	615; 801
ScrFI	CC!NGG	24	90; 283; 657; 658; 1041; 1125; 1141; 1266; 1378; 1453; 1507; 2875; 2930; 2947; 3343; 3503; 3726; 4116; 4305; 4408; 4880; 5098; 5111; 5232
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNN!	7	855; 1404; 1690; 2917; 2989; 3158; 5100
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	2	3494; 3979
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	14	620; 657; 796; 1136; 1265; 1514; 2530; 3285; 3378; 3452; 3642; 3704; 4414; 4947
SelI	!CGCG	19	58; 649; 1002; 1422; 1531; 1986; 2261; 2637; 2657; 2681; 2712; 3403; 3704; 4142; 4226; 4289; 4358; 4631; 5212
SetI	ASST!	80	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 710; 744; 765; 780; 786; 796; 809; 872; 893; 962; 967; 1067; 1076; 1118; 1151; 1163; 1213; 1223; 1235; 1256; 1376; 1433; 1472; 1520; 1544; 1645; 1671; 1851; 1856; 2029; 2050; 2059; 2071; 2120; 2287; 2402; 2414; 2457; 2494; 2544; 2567; 2691; 2839; 2934; 3127; 3240; 3368; 3447; 3458; 3530; 3601; 3645; 3905; 4051; 4095; 4426; 4457; 4516; 4559; 4702; 4723; 4822; 4959; 4974; 4993; 5005; 5049; 5095; 5146
SexAI	A!CCWGGT	1	2928
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	9	848; 1472; 1487; 2155; 2918; 2990; 3638; 3702; 3977
SfaNI	!NNNNNNNNNGATGC	7	357; 1194; 1689; 3297; 3552; 3768; 5160
SfcI	C!TRYAG	5	634; 779; 2674; 4801; 4992
SfiI	GGCCNNNN!NGGCC	1	3114
SfoI	GGC!GCC	1	3340
Sfr274I	C!TCGAG	2	613; 799

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sfr303I	CCGC!GG	1	652
SfuI	TT!CGAA	2	627; 4021
SgeI	CNNGNNNNNNNNN!	207	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 718; 752; 773; 811; 828; 855; 885; 904; 918; 946; 972; 990; 1008; 1023; 1041; 1063; 1086; 1109; 1122; 1136; 1152; 1185; 1199; 1230; 1259; 1272; 1288; 1311; 1325; 1341; 1362; 1375; 1389; 1410; 1428; 1452; 1465; 1479; 1500; 1518; 1531; 1544; 1581; 1639; 1660; 1690; 1741; 1763; 1801; 1824; 1864; 1948; 1999; 2046; 2075; 2117; 2200; 2274; 2358; 2380; 2412; 2449; 2467; 2486; 2501; 2543; 2560; 2577; 2612; 2626; 2643; 2665; 2689; 2713; 2778; 2792; 2830; 2846; 2886; 2899; 2918; 2941; 2958; 2971; 2990; 3020; 3041; 3058; 3081; 3116; 3143; 3174; 3196; 3222; 3244; 3263; 3291; 3327; 3346; 3369; 3383; 3403; 3416; 3430; 3449; 3463; 3482; 3514; 3528; 3541; 3567; 3598; 3611; 3628; 3645; 3659; 3676; 3694; 3709; 3737; 3753; 3772; 3794; 3810; 3833; 3852; 3877; 3896; 3916; 3943; 3967; 4000; 4019; 4047; 4061; 4127; 4151; 4166; 4189; 4210; 4227; 4275; 4302; 4316; 4345; 4369; 4402; 4419; 4439; 4452; 4465; 4523; 4550; 4569; 4599; 4624; 4644; 4658; 4683; 4701; 4738; 4776; 4805; 4833; 4847; 4867; 4882; 4903; 4917; 4936; 4954; 4970; 5010; 5030; 5057; 5075; 5096; 5109; 5122; 5139; 5163; 5186; 5218; 5243; 5270; 5292
SgeI	!NNNNNNNNNNNNCNG	182	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 692; 726; 747; 785; 802; 829; 859; 878; 920; 946; 964; 982; 1003; 1026; 1048; 1083; 1110; 1127; 1159; 1177; 1204; 1233; 1251; 1274; 1299; 1325; 1345; 1363; 1384; 1402; 1426; 1453; 1474; 1492; 1516; 1555; 1613; 1634; 1664; 1715; 1737; 1775; 1798; 1838; 1922; 1973; 2020; 2049; 2091; 2174; 2248; 2332; 2354; 2386; 2423; 2441; 2460; 2517; 2534; 2551; 2586; 2604; 2624; 2644; 2663; 2687; 2752; 2804; 2860; 2892; 2915; 2932; 2964; 2994; 3015; 3032; 3055; 3090; 3117; 3148; 3170; 3196; 3218; 3237; 3265; 3301; 3320; 3343; 3364; 3382; 3399; 3423; 3456; 3488; 3515; 3541; 3572; 3602; 3619; 3645; 3668; 3689; 3711; 3731; 3751; 3768; 3807; 3826; 3851; 3870; 3890; 3917; 3941; 3974; 3993; 4021; 4043; 4101; 4125; 4144; 4163; 4184; 4201; 4249; 4276; 4296; 4319; 4343; 4376; 4393; 4413; 4439; 4497; 4524; 4543; 4573; 4598; 4618; 4657; 4675; 4712; 4750; 4779; 4807; 4828; 4856; 4877; 4910; 4928; 4984; 5004; 5031; 5049; 5070; 5096; 5113; 5137; 5160; 5192; 5217; 5244; 5266; 5295
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	652
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	5	27; 1651; 2486; 4273; 5066
SimI	!GACCC	7	106; 987; 1223; 1418; 3767; 4335; 4583
SinI	G!GWCC	4	726; 1014; 3855; 4300
Slai	C!TCGAG	2	613; 799
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 1126; 1276; 1453; 3776
SmlI	C!TYRAG	8	613; 619; 799; 2221; 3730; 4612; 4889; 5151
SmoI	C!TYRAG	8	613; 619; 799; 2221; 3730; 4612; 4889; 5151
SmuI	CCCGNNNN!	10	93; 119; 286; 1321; 1429; 2661; 3016; 3037; 4233; 4365
SmuI	!NNNNNCGCGG	6	644; 2592; 3462; 3999; 4137; 4284
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2909; 2981; 3744
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	15	18; 629; 1564; 1672; 1732; 1951; 2089; 2153; 2231; 2257; 2268; 2915; 2987; 3079; 4497
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	3160
SsiI	C!CGC	40	58; 86; 98; 112; 279; 507; 589; 649; 861; 1034; 1037; 1314; 1355; 1422; 1461; 1986; 2654; 2657; 2671; 2761; 3009; 3021; 3030; 3042; 3052; 3063; 3109; 3248; 3311; 3813; 3858; 3924; 3950; 4075; 4078; 4226; 4358; 4665; 4809; 5305

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	G!CGG	27	370; 403; 528; 651; 1082; 1088; 1982; 2599; 2626; 2714; 2824; 3405; 3469; 3570; 3573; 3853; 3908; 4006; 4144; 4291; 4431; 4674; 4919; 5040; 5059; 5186; 5214
SspI	AAT!ATT	2	2247; 2800
SspDI	G!GCGCC	1	3338
SspD5I	GGTGANNNNNNNN!	5	376; 1443; 1467; 4410; 4526
SspD5I	!NNNNNNNNTCACC	3	1112; 2455; 3516
SstI	GAGCT!C	2	620; 796
SstII	CCGC!GG	1	652
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	24	92; 118; 285; 663; 941; 953; 1265; 1320; 1328; 1370; 1428; 1736; 2538; 2660; 3015; 3036; 3349; 3752; 3891; 3962; 4232; 4364; 4594; 5032
Sth132I	!NNNNNNNNCCGGG	21	15; 407; 470; 643; 1032; 1116; 2539; 2591; 2692; 3419; 3461; 3494; 3998; 4107; 4136; 4283; 4387; 4418; 4871; 4915; 5123
Sth302II	CC!GG	24	602; 658; 668; 1041; 1098; 1125; 1188; 1248; 2558; 3245; 3322; 3344; 3372; 3503; 3593; 3660; 3841; 4116; 4124; 4216; 4690; 4880; 4906; 5053
StrI	C!TCGAG	2	613; 799
StsI	GGATGNNNNNNNNNN!	7	1091; 1712; 1829; 3207; 3664; 3689; 4143
StsI	!NNNNNNNNNNNNNNNNNNCATCC	3	1122; 1488; 3011
StuI	AGG!CCT	1	3160
StyI	C!CWGGG	5	360; 3068; 3161; 3771; 4176
StyD4I	!CCNGG	24	88; 281; 655; 656; 1039; 1123; 1139; 1264; 1376; 1451; 1505; 2873; 2928; 2945; 3341; 3501; 3724; 4114; 4303; 4406; 4878; 5096; 5109; 5230
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 645; 1635; 2430; 3719; 3835; 3943; 4266; 4757; 5227; 5298
TaiI	ACGT!	22	125; 137; 178; 261; 342; 447; 744; 809; 872; 1076; 1163; 1376; 1851; 1856; 2402; 2414; 2457; 2567; 3458; 3645; 4426; 4559
TaqI	T!CGA	19	614; 627; 640; 800; 872; 1145; 1439; 1466; 2488; 3179; 3452; 3608; 3632; 3668; 3830; 4021; 4066; 4321; 5159
TaqII	GACCGANNNNNNNNNNN!	4	1561; 2359; 3376; 4044
TaqII	!NNNNNNNNNTCGGTC	1	4288
TaqII	CACCCANNNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	3	172; 3243; 3835
TasI	!AATT	15	18; 629; 1564; 1672; 1732; 1951; 2089; 2153; 2231; 2257; 2268; 2915; 2987; 3079; 4497
TatI	W!GTACW	6	217; 297; 330; 381; 1067; 1523
TauI	GCSG!C	17	1039; 1988; 2659; 2673; 3111; 3250; 3313; 3408; 3573; 3576; 3815; 3911; 3952; 4080; 4434; 5062; 5217
TfiI	G!AWTC	5	3824; 3958; 4068; 4105; 5283
ThiI	C!TCGAG	2	613; 799
TruII	T!TAA	15	7; 2040; 2101; 2222; 2243; 2254; 2266; 2277; 2294; 2392; 2663; 4482; 4496; 4501; 4553
Tru9I	T!TAA	15	7; 2040; 2101; 2222; 2243; 2254; 2266; 2277; 2294; 2392; 2663; 4482; 4496; 4501; 4553
TscAI	CASTGNN!	7	1652; 1839; 2185; 3468; 4578; 4849; 4862
TseI	G!CWGC	21	881; 888; 939; 942; 1100; 1254; 1335; 1837; 2115; 2634; 3299; 3400; 3442; 3483; 3576; 3963; 4416; 4642; 4848; 4851; 4916
TsoI	TARCCANNNNNNNNNNN!	2	2311; 2658
TsoI	!NNNNNNNNNTGGYTA	4	1738; 1814; 2116; 3868
Tsp45I	!GTSAC	8	763; 1029; 1278; 1643; 1849; 2628; 3459; 3765
Tsp509I	!AATT	15	18; 629; 1564; 1672; 1732; 1951; 2089; 2153; 2231; 2257; 2268; 2915; 2987; 3079; 4497
TspDTI	ATGAANNNNNNNNNNN!	8	1345; 1706; 1774; 1901; 1961; 2097; 3398; 4102
TspDTI	!NNNNNNNNNTTCAT	4	26; 3816; 4272; 4479
TspEI	!AATT	15	18; 629; 1564; 1672; 1732; 1951; 2089; 2153; 2231; 2257; 2268; 2915; 2987; 3079; 4497
TspGWI	ACGGANNNNNNNNNNN!	2	1946; 4214
TspGWI	!NNNNNNNNNTCCGT	2	963; 1777
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	7	1652; 1839; 2185; 3468; 4578; 4849; 4862
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TstI	!NNNNNNNGGANNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3457
Tth111II	CAARCANNNNNNNNNN!	3	718; 841; 4666
Tth111III	!NNNNNNNNNTGYTTG	3	3774; 4634; 4673
UnbI	!GGNCC	13	82; 275; 653; 725; 930; 1013; 1267; 2445; 3854; 4299; 4345; 4403; 4436
Van91I	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	1	2221
VneI	G!TGCAC	1	4943
VpaK11AI	!GGWCC	4	725; 1013; 3854; 4299
VpaK11BI	G!GWCC	4	726; 1014; 3855; 4300
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	7	629; 1564; 1732; 1951; 2153; 2257; 2268
XbaI	T!CTAGA	1	1993
XceI	RCATG!Y	4	2909; 2981; 3744; 5261
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	2	613; 799
XhoII	R!GATCY	12	585; 609; 660; 734; 857; 3510; 3756; 4148; 4507; 4519; 4605; 4616
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	3161; 4176
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	1	1306
XspI	C!TAG	9	592; 1751; 1994; 2188; 2606; 3162; 4177; 4511; 4764
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2911; 2983; 5314