

## pCop-Green-peroxi vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1486; 1691
AarI	CACCTGCNNNN!	1	1043
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1774; 2730; 4519
AatI	AGG!CCT	1	2524
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1318
AccII	CG!CG	19	60; 938; 1094; 1199; 1329; 1591; 1627; 2003; 2023; 2047; 2078; 2769; 3070; 3508; 3592; 3655; 3724; 3997; 4578
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2805
Acc36I	ACCTGCNNNN!	4	770; 1043; 2971; 3421
Acc36I	!NNNNNNNNGCAGGT	1	2590
Acc65I	G!GTACC	1	1323
AccB1I	G!GYRCC	10	465; 646; 691; 739; 802; 964; 1323; 1856; 2702; 2737
AccB7I	CCANNNN!NTGG	1	777
AccBSI	CCG!CTC	2	2127; 3316
AccBSI	GAG!CGG	2	1963; 3370
AceIII	CAGCTCNNNNNNN!	1	1659
AceIII	!NNNNNNNNNNNGAGCTG	4	552; 658; 1195; 1213
AcI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 617; 636; 708; 870; 921; 936; 1011; 1077; 1194; 1197; 1327; 2018; 2021; 2035; 2125; 2373; 2385; 2394; 2406; 2416; 2427; 2473; 2612; 2675; 3177; 3222; 3288; 3314; 3439; 3442; 3590; 3722; 4029; 4173; 4669
AcI	G!CGG	30	370; 403; 528; 680; 683; 815; 854; 893; 1100; 1329; 1963; 1990; 2078; 2188; 2769; 2833; 2934; 2937; 3217; 3272; 3370; 3508; 3655; 3795; 4038; 4283; 4404; 4423; 4550; 4578
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	9	1346; 1355; 2571; 2882; 3128; 3520; 3879; 3977; 4063
AcIWI	!NNNNNGATCC	6	580; 1333; 2947; 3491; 3878; 3975
AcoI	Y!GGCCR	5	933; 2609; 2783; 3174; 3201
AcsI	R!AATY	4	1307; 1517; 1621; 1632
AcuI	CTGAAGNNNNNNNNNNNNNNN!	2	2849; 3281
AcuI	!NNNNNNNNNNNNNNCTTCAG	4	735; 897; 1068; 4079
AcvI	CAC!GTG	2	774; 906
AcyI	GR!CGYC	8	122; 175; 258; 444; 740; 2703; 3405; 3484
AdeI	CACNNN!GTG	1	1819
AfaI	GT!AC	10	219; 244; 299; 332; 383; 540; 883; 1243; 1325; 3009
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	20	49; 702; 777; 927; 1200; 1715; 2041; 2433; 2684; 3228; 3509; 3541; 3673; 3708; 3758; 3790; 4143; 4422; 4588; 4606
AfII	C!TTAAG	0	
AfIII	A!CRYGT	2	1589; 4621
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	8	954; 1140; 1257; 2114; 2158; 2168; 2581; 4157
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	11	88; 281; 2237; 2292; 2309; 3088; 3667; 3770; 4460; 4473; 4594
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2277; 2349
AlfI	!NNNNNNNNNNNGCANNNNNNTGC	2	2243; 2315
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1785
AloI	!NNNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1753
AluI	AG!CT	23	566; 672; 911; 917; 1070; 1112; 1209; 1227; 1284; 1290; 1296; 1302; 1482; 1649; 1906; 2201; 2489; 2809; 3267; 4064; 4321; 4367; 4457
AluBI	AG!CT	23	566; 672; 911; 917; 1070; 1112; 1209; 1227; 1284; 1290; 1296; 1302; 1482; 1649; 1906; 2201; 2489; 2809; 3267; 4064; 4321; 4367; 4457
AlwI	GGATCNNNN!	9	1346; 1355; 2571; 2882; 3128; 3520; 3879; 3977; 4063
AlwI	!NNNNNGATCC	6	580; 1333; 2947; 3491; 3878; 3975
Alw21I	GWGCW!C	6	733; 1034; 1298; 2816; 3006; 4311
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	4	2127; 2545; 3564; 3692
Alw44I	G!TGCAC	1	4307
AlwNI	CAGNNN!CTG	2	3804; 4212
Ama87I	C!YCGRG	4	697; 976; 1291; 1334
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	2	1180; 1335
ApaBI	GCANNNNN!TGC	3	2271; 2343; 3805
ApaLI	G!TGCAC	1	4307
ApeKI	G!CWGC	17	900; 1013; 1067; 1209; 1479; 1998; 2663; 2764; 2806; 2847; 2940; 3327; 3780; 4006; 4212; 4215; 4280
ApoI	R!AATTY	4	1307; 1517; 1621; 1632
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3218
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3012; 3665; 4503
AquI	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3102
AquI	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	1229; 2531
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	2	954; 3273
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	25	586; 627; 942; 990; 1005; 1266; 1339; 1348; 1361; 2541; 2545; 2564; 2875; 2953; 3034; 3043; 3121; 3497; 3513; 3872; 3884; 3962; 3970; 3981; 4056
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2821
Asp700I	GAANN!NNTTC	1	829
Asp718I	G!GTACC	1	1323
AspA2I	C!CTAGG	2	2525; 3540
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	24	597; 742; 1094; 1147; 1969; 1977; 2003; 2025; 2034; 2047; 2078; 2697; 2705; 2769; 2806; 3072; 3332; 3508; 3594; 3997; 4106; 4280; 4380; 4447
AspS9I	G!GNCC	11	83; 276; 705; 1177; 1332; 1810; 3219; 3664; 3710; 3768; 3801
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	1305; 3385
AsuC2I	CC!SGG	6	1335; 1336; 2707; 2867; 3480; 4244
AsuHPI	GGTGANNNNNNNN!	3	376; 3774; 3890
AsuHPI	!NNNNNNNTCACC	4	633; 987; 1820; 2881
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	697; 976; 1291; 1334
AvaII	G!GWCC	2	3219; 3664
AviII	TGC!GCA	1	2805
AvrII	C!CTAGG	2	2525; 3540

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AxyI	CC!TNAGG	2	2183; 3815
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI!C	7	694; 967; 1180; 1335; 2649; 2742; 4311
BalI	TGG!CCA	1	2785
BamHI	G!GATCC	1	1338
BanI	G!GYRCC	10	465; 646; 691; 739; 802; 964; 1323; 1856; 2702; 2737
BanII	GRGCY!C	6	1180; 1298; 1335; 1894; 3068; 3778
BanIII	AT!CGAT	1	2543
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	777
BauI	C!ACGAG	2	3421; 4448
BauI	C!TCGTG	1	3295
BbeI	GGCGC!C	2	743; 2706
Bbr7I	GAAGACNNNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	2	774; 906
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2273; 2345; 3108
BbvI	GCAGCNNNNNNNN!	8	1025; 1079; 1491; 2776; 2818; 3339; 3792; 4292
BbvI	!NNNNNNNNNNNGCTGC	8	887; 1196; 1985; 2650; 2834; 2927; 3993; 4199
Bbv12I	GWGCW!C	6	733; 1034; 1298; 2816; 3006; 4311
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	850; 1156; 1833; 2397; 2923; 3425
BccI	!NNNNNGATGG	4	771; 1801; 2581; 3009
BceAI	ACGGCNNNNNNNNNNNN!	7	672; 801; 867; 906; 1113; 3129; 3616
BceAI	!NNNNNNNNNNNNNGCCGT	3	1844; 2662; 4121
Bcefl	ACGGCNNNNNNNNNNNN!	7	672; 801; 867; 906; 1113; 3129; 3616
Bcefl	!NNNNNNNNNNNNNGCCGT	3	1845; 2663; 4122
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2132; 2922; 4423
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1360
BcnI	CC!SGG	6	1335; 1336; 2707; 2867; 3480; 4244
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNN!	2	1383; 4556
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	2	1349; 4522
BfaI	C!TAG	8	592; 1351; 1552; 1970; 2526; 3541; 3875; 4128
BfiI	ACTGGGNNNNN!	1	2652
BfiI	!NNNNCCCAGT	2	289; 2404
BfmI	C!TRYAG	7	1107; 1165; 1285; 1312; 2038; 4165; 4356
BfoI	RGCGC!Y	7	598; 743; 1148; 1970; 1978; 2706; 4381
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2132; 2922; 4423
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	770; 1043; 2971; 3421
BfuAI	!NNNNNNNNNGCAGGT	1	2590
BfuCI	!GATC	25	585; 626; 941; 989; 1004; 1265; 1338; 1347; 1360; 2540; 2544; 2563; 2874; 2952; 3033; 3042; 3120; 3496; 3512; 3871; 3883; 3961; 3969; 3980; 4055
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2478
BglII	A!GATCT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BisI	GC!NGC	41	636; 681; 708; 816; 855; 894; 901; 936; 1014; 1068; 1101; 1197; 1210; 1480; 1999; 2021; 2035; 2473; 2612; 2664; 2675; 2765; 2770; 2807; 2848; 2935; 2938; 2941; 3177; 3273; 3314; 3328; 3442; 3781; 3796; 4007; 4213; 4216; 4281; 4424; 4579
BlnI	C!CTAGG	2	2525; 3540
BlpI	GC!TNAGC	1	766
BlsI	GCN!GC	41	637; 682; 709; 817; 856; 895; 902; 937; 1015; 1069; 1102; 1198; 1211; 1481; 2000; 2022; 2036; 2474; 2613; 2665; 2676; 2766; 2771; 2808; 2849; 2936; 2939; 2942; 3178; 3274; 3315; 3329; 3443; 3782; 3797; 4008; 4214; 4217; 4282; 4425; 4580
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	3219; 3664
Bme1390I	CC!NGG	17	90; 283; 1335; 1336; 2239; 2294; 2311; 2707; 2867; 3090; 3480; 3669; 3772; 4244; 4462; 4475; 4596
BmeRI	GACNN!NNGTC	0	
BmeT110I	C!YCGRG	4	697; 976; 1291; 1334
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	84; 277; 706; 1178; 1333; 1811; 3220; 3665; 3711; 3769; 3802
BmiI	GGN!NCC	24	467; 648; 693; 741; 804; 966; 1177; 1178; 1325; 1333; 1340; 1858; 1879; 1891; 2082; 2243; 2315; 2704; 2739; 3587; 3666; 3711; 4554; 4593
BmrI	ACTGGGNNNNN!	1	2652
BmrI	!NNNNCCCCAGT	2	289; 2404
BmrFI	CC!NGG	17	90; 283; 1335; 1336; 2239; 2294; 2311; 2707; 2867; 3090; 3480; 3669; 3772; 4244; 4462; 4475; 4596
BmsI	GCATCNNNNN!	10	647; 881; 1169; 1241; 1519; 2282; 2354; 3002; 3066; 3341
BmsI	!NNNNNNNNNGATGC	5	357; 2661; 2916; 3132; 4524
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2652
BmuI	!NNNNCCCCAGT	2	289; 2404
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2492; 3391
BpI	!NNNNNNNNGAGNNNNNCTC	2	2460; 3359
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3543
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	1	3486
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1305; 3385
Bpu1102I	GC!TNAGC	1	766
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	3997; 4536
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	3	1282; 3079; 4238
BpuMI	CC!SGG	6	1335; 1336; 2707; 2867; 3480; 4244
BpvUI	CGAT!CG	1	1268
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3692
Bsa29I	AT!CGAT	1	2543
BsaAI	YAC!GTR	5	340; 774; 906; 1819; 3007
BsaBI	GATNN!NNATC	2	1365; 2562
BsaHI	GR!CGYC	8	122; 175; 258; 444; 740; 2703; 3405; 3484
BsaJI	C!CNNGG	21	360; 734; 977; 1025; 1043; 1327; 1334; 2237; 2309; 2432; 2467; 2476; 2525; 2866; 3135; 3540; 3667; 3668; 3770; 3771; 4461
BsaMI	GAATGCN!	1	1454
BsaMI	G!CATTC	2	1270; 1547
BsaWI	W!CCGGW	6	600; 1344; 2734; 3578; 4268; 4415
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1783
BsaXI	!NNNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1753
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	2	890; 1244
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	2	1704; 3611

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bsc4I	CCNNNNN!NNGG	20	49; 702; 777; 927; 1200; 1715; 2041; 2433; 2684; 3228; 3509; 3541; 3673; 3708; 3758; 3790; 4143; 4422; 4588; 4606
BscAI	GCATCNNNN!	10	646; 880; 1168; 1240; 1518; 2281; 2353; 3001; 3065; 3340
BscAI	!NNNNNNGATGC	5	360; 2664; 2919; 3135; 4527
BseI	ACTGGN!	3	2647; 2848; 4094
BseI	C!CAGT	5	295; 1732; 2410; 4206; 4219
Bse8I	GATNN!NNATC	2	1365; 2562
Bse21I	CC!TNAGG	2	2183; 3815
Bse118I	R!CCGGY	8	600; 643; 931; 967; 1920; 3022; 3203; 3486
BseAI	T!CCGGA	0	
BseBI	CC!WGG	11	90; 283; 2239; 2294; 2311; 3090; 3669; 3772; 4462; 4475; 4596
BseCI	AT!CGAT	1	2543
BseDI	C!CNNGG	21	360; 734; 977; 1025; 1043; 1327; 1334; 2237; 2309; 2432; 2467; 2476; 2525; 2866; 3135; 3540; 3667; 3668; 3770; 3771; 4461
Bse3DI	GCAATGNN!	1	2936
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2563; 3020; 3045; 3499
BseGI	!CATCC	4	1007; 1148; 1160; 2389
BseJI	GATNN!NNATC	2	1365; 2562
BseLI	CCNNNNN!NNGG	20	49; 702; 777; 927; 1200; 1715; 2041; 2433; 2684; 3228; 3509; 3541; 3673; 3708; 3758; 3790; 4143; 4422; 4588; 4606
BseMI	GCAATGNN!	1	2936
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	3829
BseMII	!NNNNNNNNNCTGAG	6	757; 2174; 2476; 3357; 3929; 4338
BseNI	ACTGGN!	3	2647; 2848; 4094
BseNI	C!CAGT	5	295; 1732; 2410; 4206; 4219
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1219; 2521
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGC!C	7	694; 967; 1180; 1335; 2649; 2742; 4311
BseXI	GCAGCNNNNNNNN!	8	1025; 1079; 1491; 2776; 2818; 3339; 3792; 4292
BseXI	!NNNNNNNNNNNGCTGC	8	887; 1196; 1985; 2650; 2834; 2927; 3993; 4199
BseX3I	C!GGCCG	2	933; 2609
BseYI	C!CCAGC	5	811; 1156; 2246; 2318; 4317
BseYI	G!CTGGG	2	1227; 3207
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNCTGCAC	4	820; 886; 1021; 1195
Bsh1236I	CG!CG	19	60; 938; 1094; 1199; 1329; 1591; 1627; 2003; 2023; 2047; 2078; 2769; 3070; 3508; 3592; 3655; 3724; 3997; 4578
Bsh1285I	CGRY!CG	5	605; 936; 1268; 2612; 4287
BshFI	GG!CC	24	84; 277; 707; 931; 935; 1178; 1333; 1669; 1811; 2466; 2472; 2481; 2524; 2611; 2785; 3176; 3203; 3712; 3769; 3802; 4147; 4581; 4599; 4610
BshNI	G!GYRCC	10	465; 646; 691; 739; 802; 964; 1323; 1856; 2702; 2737
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	2543
BsiEI	CGRY!CG	5	605; 936; 1268; 2612; 4287
BsiHKAI	GWGCW!C	6	733; 1034; 1298; 2816; 3006; 4311
BsiHKCI	C!YCGRG	4	697; 976; 1291; 1334
BsiSI	C!CGG	22	601; 644; 932; 968; 1335; 1345; 1921; 2608; 2685; 2707; 2735; 2866; 2956; 3023; 3204; 3479; 3487; 3579; 4053; 4243; 4269; 4416
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	20	49; 702; 777; 927; 1200; 1715; 2041; 2433; 2684; 3228; 3509; 3541; 3673; 3708; 3758; 3790; 4143; 4422; 4588; 4606
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2854; 3386; 3495
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2219; 2291; 2355; 3650
BsmI	GAATGCN!	1	1454
BsmI	G!CATTC	2	1270; 1547
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	4	2127; 2545; 3564; 3692
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2854; 3386; 3495

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2219; 2291; 2355; 3650
BsnI	GG!CC	24	84; 277; 707; 931; 935; 1178; 1333; 1669; 1811; 2466; 2472; 2481; 2524; 2611; 2785; 3176; 3203; 3712; 3769; 3802; 4147; 4581; 4599; 4610
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3692
BsoBI	C!YCGRG	4	697; 976; 1291; 1334
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 1043; 2432; 3135
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3506
Bsp24I	!NNNNNNCCANNNNNGTC	2	3927; 4105
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3959; 4137
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3474
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1305; 3385
Bsp120I	G!GGCCC	2	1176; 1331
Bsp143I	!GATC	25	585; 626; 941; 989; 1004; 1265; 1338; 1347; 1360; 2540; 2544; 2563; 2874; 2952; 3033; 3042; 3120; 3496; 3512; 3871; 3883; 3961; 3969; 3980; 4055
Bsp1286I	GDGCH!C	15	694; 733; 967; 1034; 1180; 1298; 1335; 1894; 2649; 2742; 2816; 3006; 3068; 3778; 4311
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	1	766
BspACI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 617; 636; 708; 870; 921; 936; 1011; 1077; 1194; 1197; 1327; 2018; 2021; 2035; 2125; 2373; 2385; 2394; 2406; 2416; 2427; 2473; 2612; 2675; 3177; 3222; 3288; 3314; 3439; 3442; 3590; 3722; 4029; 4173; 4669
BspACI	G!CGG	30	370; 403; 528; 680; 683; 815; 854; 893; 1100; 1329; 1963; 1990; 2078; 2188; 2769; 2833; 2934; 2937; 3217; 3272; 3370; 3508; 3655; 3795; 4038; 4283; 4404; 4423; 4550; 4578
BspCNI	CTCAGNNNNNNNN!	1	3828
BspCNI	!NNNNNNNCTGAG	6	758; 2175; 2477; 3358; 3930; 4339
BspDI	AT!CGAT	1	2543
BspD6I	GACTCNNNN!	4	418; 1776; 3382; 4259
BspD6I	!NNNNNGAGTC	2	1739; 2171
BspEI	T!CCGGA	0	
BspFNI	CG!CG	19	60; 938; 1094; 1199; 1329; 1591; 1627; 2003; 2023; 2047; 2078; 2769; 3070; 3508; 3592; 3655; 3724; 3997; 4578
BspHI	T!CATGA	2	2129; 3901
BspLI	GGN!NCC	24	467; 648; 693; 741; 804; 966; 1177; 1178; 1325; 1333; 1340; 1858; 1879; 1891; 2082; 2243; 2315; 2704; 2739; 3587; 3666; 3711; 4554; 4593
BspMI	ACCTGCNNNN!	4	770; 1043; 2971; 3421
BspMI	!NNNNNNNGCAGGT	1	2590
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	1346; 1355; 2571; 2882; 3128; 3520; 3879; 3977; 4063
BspPI	!NNNNNGATCC	6	580; 1333; 2947; 3491; 3878; 3975
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	721; 3047; 3257
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1305; 3385
BspT107I	G!GYRCC	10	465; 646; 691; 739; 802; 964; 1323; 1856; 2702; 2737
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3692
BsrI	ACTGGN!	3	2647; 2848; 4094
BsrI	C!CAGT	5	295; 1732; 2410; 4206; 4219
BsrBI	CCG!CTC	2	2127; 3316
BsrBI	GAG!CGG	2	1963; 3370
BsrDI	GCAATGNN!	1	2936
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	8	600; 643; 931; 967; 1920; 3022; 3203; 3486
BsrGI	T!GTACA	0	
BsrSI	ACTGGN!	3	2647; 2848; 4094
BsrSI	C!CAGT	5	295; 1732; 2410; 4206; 4219
BssAI	R!CCGGY	8	600; 643; 931; 967; 1920; 3022; 3203; 3486

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssECI	C!CNNGG	21	360; 734; 977; 1025; 1043; 1327; 1334; 2237; 2309; 2432; 2467; 2476; 2525; 2866; 3135; 3540; 3667; 3668; 3770; 3771; 4461
BssHII	G!CGCGC	0	
BssKI	!CCNGG	17	88; 281; 1333; 1334; 2237; 2292; 2309; 2705; 2865; 3088; 3478; 3667; 3770; 4242; 4460; 4473; 4594
BssMI	!GATC	25	585; 626; 941; 989; 1004; 1265; 1338; 1347; 1360; 2540; 2544; 2563; 2874; 2952; 3033; 3042; 3120; 3496; 3512; 3871; 3883; 3961; 3969; 3980; 4055
BssNI	GR!CGYC	8	122; 175; 258; 444; 740; 2703; 3405; 3484
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3421; 4448
BssSI	C!TCGTG	1	3295
BssTII	C!CWWGG	7	360; 734; 1043; 2432; 2525; 3135; 3540
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	721; 2170; 3047; 3257
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 740; 2703; 3405; 3484
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	2270; 2342; 3804
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	2	1305; 3385
Bst2BI	C!ACGAG	2	3421; 4448
Bst2BI	C!TCGTG	1	3295
BstBAI	YAC!GTR	5	340; 774; 906; 1819; 3007
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 1026; 1323; 1794; 3083; 3199; 3307; 3630; 4121; 4591; 4662
BstC8I	GCN!NGC	35	86; 279; 593; 617; 839; 898; 933; 1077; 1090; 1250; 1331; 1922; 1965; 1979; 2252; 2271; 2324; 2343; 2597; 2783; 3002; 3068; 3074; 3106; 3147; 3151; 3205; 3488; 3675; 3722; 3778; 3800; 4011; 4571; 4608
BstDEI	C!TNAG	7	766; 2183; 2485; 3366; 3815; 3938; 4347
BstDSI	C!CRYGG	6	360; 1025; 1043; 1327; 2432; 3135
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2563; 3020; 3045; 3499
BstF5I	!CATCC	4	1007; 1148; 1160; 2389
BstFNI	CG!CG	19	60; 938; 1094; 1199; 1329; 1591; 1627; 2003; 2023; 2047; 2078; 2769; 3070; 3508; 3592; 3655; 3724; 3997; 4578
BstH2I	RGCGC!Y	7	598; 743; 1148; 1970; 1978; 2706; 4381
BstHHI	GCG!C	24	597; 742; 1094; 1147; 1969; 1977; 2003; 2025; 2034; 2047; 2078; 2697; 2705; 2769; 2806; 3072; 3332; 3508; 3594; 3997; 4106; 4280; 4380; 4447
BstKTI	GAT!C	25	588; 629; 944; 992; 1007; 1268; 1341; 1350; 1363; 2543; 2547; 2566; 2877; 2955; 3036; 3045; 3123; 3499; 3515; 3874; 3886; 3964; 3972; 3983; 4058
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	4	2127; 2545; 3564; 3692
BstMBI	!GATC	25	585; 626; 941; 989; 1004; 1265; 1338; 1347; 1360; 2540; 2544; 2563; 2874; 2952; 3033; 3042; 3120; 3496; 3512; 3871; 3883; 3961; 3969; 3980; 4055
BstMCI	CGRY!CG	5	605; 936; 1268; 2612; 4287
BstMWI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 644; 689; 737; 944; 1076; 1100; 1930; 1960; 1987; 2029; 2270; 2342; 2393; 2472; 2694; 2778; 2801; 2940; 3063; 3146; 3413; 3600; 3804; 4003; 4575
BstNI	CC!WGG	11	90; 283; 2239; 2294; 2311; 3090; 3669; 3772; 4462; 4475; 4596
BstNSI	RCATG!Y	5	1134; 2273; 2345; 3108; 4625
BstOI	CC!WGG	11	90; 283; 2239; 2294; 2311; 3090; 3669; 3772; 4462; 4475; 4596
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	17	88; 281; 1333; 1334; 2237; 2292; 2309; 2705; 2865; 3088; 3478; 3667; 3770; 4242; 4460; 4473; 4594
BstSFI	C!TRYAG	7	1107; 1165; 1285; 1312; 2038; 4165; 4356
BstSLI	GKGCN!C	7	694; 967; 1180; 1335; 2649; 2742; 4311
BstSNI	TAC!GTA	1	340

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstUI	CG!CG	19	60; 938; 1094; 1199; 1329; 1591; 1627; 2003; 2023; 2047; 2078; 2769; 3070; 3508; 3592; 3655; 3724; 3997; 4578
Bst2UI	CC!WGG	11	90; 283; 2239; 2294; 2311; 3090; 3669; 3772; 4462; 4475; 4596
BstV1I	GCAGCNNNNNNNN!	8	1025; 1079; 1491; 2776; 2818; 3339; 3792; 4292
BstV1I	!NNNNNNNNNNNGCTGC	8	887; 1196; 1985; 2650; 2834; 2927; 3993; 4199
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	10	585; 1338; 1347; 2874; 3120; 3512; 3871; 3883; 3969; 3980
BstYI	R!GATCY	10	585; 1338; 1347; 2874; 3120; 3512; 3871; 3883; 3969; 3980
BstZI	C!GGCCG	2	933; 2609
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2132; 2922; 4423
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2543
Bsu36I	CC!TNAGG	2	2183; 3815
BsuRI	GG!CC	24	84; 277; 707; 931; 935; 1178; 1333; 1669; 1811; 2466; 2472; 2481; 2524; 2611; 2785; 3176; 3203; 3712; 3769; 3802; 4147; 4581; 4599; 4610
BsuTUI	AT!CGAT	1	2543
BtgI	C!CRYGG	6	360; 1025; 1043; 1327; 2432; 3135
BtgZI	GCGATGNNNNNNNNNN!	2	1820; 3155
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 2974; 3318
BthCI	GCNG!C	41	638; 683; 710; 818; 857; 896; 903; 938; 1016; 1070; 1103; 1199; 1212; 1482; 2001; 2023; 2037; 2475; 2614; 2666; 2677; 2767; 2772; 2809; 2850; 2937; 2940; 2943; 3179; 3275; 3316; 3330; 3444; 3783; 3798; 4009; 4215; 4218; 4283; 4426; 4581
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1542
BtsCI	GGATGNN!	4	2563; 3020; 3045; 3499
BtsCI	!CATCC	4	1007; 1148; 1160; 2389
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	770; 1043; 2971; 3421
BveI	!NNNNNNNNNGCAGGT	1	2590
Cac8I	GCN!NGC	35	86; 279; 593; 617; 839; 898; 933; 1077; 1090; 1250; 1331; 1922; 1965; 1979; 2252; 2271; 2324; 2343; 2597; 2783; 3002; 3068; 3074; 3106; 3147; 3151; 3205; 3488; 3675; 3722; 3778; 3800; 4011; 4571; 4608
CaiI	CAGNNN!CTG	2	3804; 4212
CciI	T!CATGA	2	2129; 3901
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 876; 1236; 2992; 2997; 3195; 3336
CdiI	C!GATG	2	1806; 3141
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	2	708; 4575
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2364; 2406
CelII	GC!TNAGC	1	766
CfoI	GCG!C	24	597; 742; 1094; 1147; 1969; 1977; 2003; 2025; 2034; 2047; 2078; 2697; 2705; 2769; 2806; 3072; 3332; 3508; 3594; 3997; 4106; 4280; 4380; 4447
CfrI	Y!GGCCR	5	933; 2609; 2783; 3174; 3201
Cfr9I	C!CCGGG	1	1334
Cfr10I	R!CCGGY	8	600; 643; 931; 967; 1920; 3022; 3203; 3486
Cfr13I	G!GNCC	11	83; 276; 705; 1177; 1332; 1810; 3219; 3664; 3710; 3768; 3801
Cfr42I	CCG!GG	1	1330
ChaI	GATC!	25	589; 630; 945; 993; 1008; 1269; 1342; 1351; 1364; 2544; 2548; 2567; 2878; 2956; 3037; 3046; 3124; 3500; 3516; 3875; 3887; 3965; 3973; 3984; 4059
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	2520; 3960; 4060; 4138
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2187; 2282; 3474; 4024; 4579
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNNNN!	7	98; 291; 2221; 2316; 3508; 4058; 4613
CjeI	!NNNNNNNNCCANNNNNNGT	4	2486; 3926; 4026; 4104
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNNNN!	2	3960; 4138
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 3474; 4073
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNNNN!	3	290; 3507; 4106



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjePI	!NNNNNNNCCANNNNNNTC	2	3927; 4105
Clai	AT!CGAT	1	2543
CpoI	CG!GWCCG	1	3219
CseI	GACGCNNNNN!	3	526; 3413; 3492
CseI	!NNNNNNNNNGCGTC	3	2036; 3931; 4509
CsiI	A!CCWGGT	1	2292
CspI	CG!GWCCG	1	3219
Csp6I	G!TAC	10	218; 243; 298; 331; 382; 539; 882; 1242; 1324; 3008
Csp45I	TT!CGAA	2	1305; 3385
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	1983; 3592
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	21	301; 361; 612; 621; 711; 1044; 1131; 1182; 2130; 2270; 2342; 2433; 2574; 2919; 3105; 3136; 3162; 3518; 3902; 4622; 4673
CviJI	RG!CY	97	42; 84; 93; 277; 566; 672; 707; 755; 770; 782; 788; 818; 857; 911; 917; 931; 935; 971; 1070; 1088; 1103; 1112; 1127; 1178; 1209; 1227; 1284; 1290; 1296; 1302; 1333; 1372; 1482; 1649; 1669; 1811; 1892; 1906; 1920; 2201; 2242; 2314; 2437; 2466; 2472; 2481; 2489; 2512; 2524; 2530; 2611; 2628; 2636; 2663; 2688; 2772; 2781; 2785; 2809; 2847; 2923; 2940; 2959; 3022; 3066; 3076; 3093; 3176; 3203; 3207; 3244; 3267; 3283; 3463; 3490; 3551; 3673; 3712; 3769; 3776; 3783; 3802; 3813; 4064; 4093; 4136; 4147; 4212; 4291; 4316; 4321; 4367; 4457; 4555; 4581; 4599; 4610
CviKI-1	RG!CY	97	42; 84; 93; 277; 566; 672; 707; 755; 770; 782; 788; 818; 857; 911; 917; 931; 935; 971; 1070; 1088; 1103; 1112; 1127; 1178; 1209; 1227; 1284; 1290; 1296; 1302; 1333; 1372; 1482; 1649; 1669; 1811; 1892; 1906; 1920; 2201; 2242; 2314; 2437; 2466; 2472; 2481; 2489; 2512; 2524; 2530; 2611; 2628; 2636; 2663; 2688; 2772; 2781; 2785; 2809; 2847; 2923; 2940; 2959; 3022; 3066; 3076; 3093; 3176; 3203; 3207; 3244; 3267; 3283; 3463; 3490; 3551; 3673; 3712; 3769; 3776; 3783; 3802; 3813; 4064; 4093; 4136; 4147; 4212; 4291; 4316; 4321; 4367; 4457; 4555; 4581; 4599; 4610
CviQI	G!TAC	10	218; 243; 298; 331; 382; 539; 882; 1242; 1324; 3008
DdeI	C!TNAG	7	766; 2183; 2485; 3366; 3815; 3938; 4347
DinI	GGC!GCC	2	741; 2704
DpnI	GA!TC	25	587; 628; 943; 991; 1006; 1267; 1340; 1349; 1362; 2542; 2546; 2565; 2876; 2954; 3035; 3044; 3122; 3498; 3514; 3873; 3885; 3963; 3971; 3982; 4057
DpnII	!GATC	25	585; 626; 941; 989; 1004; 1265; 1338; 1347; 1360; 2540; 2544; 2563; 2874; 2952; 3033; 3042; 3120; 3496; 3512; 3871; 3883; 3961; 3969; 3980; 4055
DraI	TTT!AAA	3	1405; 3847; 3866
DraII	RG!GNCCY	2	1176; 3801
DraIII	CACNNN!GTG	1	1819
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	266; 4183
DraRI	!NNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	3	1774; 2730; 4519
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1774; 2730; 4519
EaeI	Y!GGCCR	5	933; 2609; 2783; 3174; 3201
EagI	C!GGCCG	2	933; 2609
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	721; 2170; 3047; 3257
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	4	721; 2170; 3047; 3257
EciI	GGCGANNNNNNNNNNNN!	5	698; 2203; 3232; 4419; 4565
EciI	!NNNNNNNNNTCCGCC	5	496; 1183; 2374; 2395; 2416
Ecl136II	GAG!CTC	1	1296
EclXI	C!GGCCG	2	933; 2609

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco24I	GRGCY!C	6	1180; 1298; 1335; 1894; 3068; 3778
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	3692
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3219; 3664
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	933; 2609
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	2	2849; 3281
Eco57I	!NNNNNNNNNNNNNNCTTCAG	4	735; 897; 1068; 4079
Eco72I	CAC!GTG	2	774; 906
Eco81I	CC!TNAGG	2	2183; 3815
Eco88I	C!YCGRG	4	697; 976; 1291; 1334
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	7	360; 734; 1043; 2432; 2525; 3135; 3540
Eco147I	AGG!CCT	1	2524
EcoHI	!CCSGG	6	1333; 1334; 2705; 2865; 3478; 4242
EcoICRI	GAG!CTC	1	1296
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	3	2849; 3281; 3543
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	735; 897; 1068; 3486; 4079
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	1176; 3801
EcoRI	G!AATTC	1	1307
EcoRII	!CCWGG	11	88; 281; 2237; 2292; 2309; 3088; 3667; 3770; 4460; 4473; 4594
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	7	360; 734; 1043; 2432; 2525; 3135; 3540
EcoT22I	ATGCA!T	3	2275; 2347; 4678
EcoT38I	GRGCY!C	6	1180; 1298; 1335; 1894; 3068; 3778
Eco53kI	GAG!CTC	1	1296
EgeI	GGC!GCC	2	741; 2704
EheI	GGC!GCC	2	741; 2704
ErhI	C!CWWGG	7	360; 734; 1043; 2432; 2525; 3135; 3540
EsaBC3I	TC!GA	17	630; 669; 876; 1293; 1306; 1319; 1853; 2544; 2817; 2973; 2997; 3033; 3195; 3386; 3431; 3686; 4524
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	21	304; 364; 615; 624; 714; 1047; 1134; 1185; 2133; 2273; 2345; 2436; 2577; 2922; 3108; 3139; 3165; 3521; 3905; 4625; 4676
FaiI	YA!TR	57	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 622; 712; 1045; 1132; 1183; 1365; 1375; 1441; 1486; 1691; 2119; 2131; 2262; 2271; 2334; 2343; 2367; 2434; 2458; 2575; 2639; 2920; 2945; 3106; 3137; 3163; 3235; 3451; 3519; 3597; 3649; 3810; 3827; 3829; 3831; 3903; 4181; 4370; 4486; 4559; 4623; 4674
FalI	AAGNNNNNCTNNNNNNNNNNNN!	1	3043
FalI	!NNNNNNNNAAGNNNNNCTT	1	3011
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2854; 3386; 3495
FaqI	!NNNNNNNNNNNNNGTCCC	4	2219; 2291; 2355; 3650
FatI	!CATG	21	300; 360; 611; 620; 710; 1043; 1130; 1181; 2129; 2269; 2341; 2432; 2573; 2918; 3104; 3135; 3161; 3517; 3901; 4621; 4672
FauI	CCCGCNNNN!	11	93; 119; 286; 624; 877; 1084; 2025; 2380; 2401; 3597; 3729
FauI	!NNNNNNGCGGG	6	1322; 1956; 2826; 3363; 3501; 3648
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	1360
FblI	GT!MKAC	1	1318
FmuI	GGNC!C	11	86; 279; 708; 1180; 1335; 1813; 3222; 3667; 3713; 3771; 3804
Fnu4HI	GC!NGC	41	636; 681; 708; 816; 855; 894; 901; 936; 1014; 1068; 1101; 1197; 1210; 1480; 1999; 2021; 2035; 2473; 2612; 2664; 2675; 2765; 2770; 2807; 2848; 2935; 2938; 2941; 3177; 3273; 3314; 3328; 3442; 3781; 3796; 4007; 4213; 4216; 4281; 4424; 4579
FokI	GGATGNNNNNNNN!	4	2570; 3027; 3052; 3506
FokI	!NNNNNNNNNNNNNCATCC	3	994; 1135; 2376
FriOI	GRGCY!C	6	1180; 1298; 1335; 1894; 3068; 3778
FseI	GGCCGG!CC	1	935
FspI	TGC!GCA	1	2805

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1351; 1552; 1970; 2526; 3541; 3875; 4128
FspEI	CCNNNNNNNNNNNN!	158	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 629; 649; 663; 708; 729; 747; 762; 784; 808; 823; 841; 855; 876; 934; 949; 981; 1011; 1035; 1054; 1089; 1141; 1161; 1177; 1192; 1207; 1236; 1258; 1275; 1290; 1340; 1355; 1386; 1425; 1439; 1580; 1675; 1699; 1722; 1745; 1763; 1785; 1806; 1825; 1844; 1873; 1894; 1908; 1934; 2022; 2048; 2097; 2138; 2156; 2195; 2211; 2249; 2306; 2321; 2378; 2398; 2412; 2429; 2443; 2480; 2495; 2538; 2621; 2688; 2719; 2739; 2754; 2799; 2813; 2879; 2893; 2912; 2928; 2969; 2989; 3036; 3086; 3102; 3122; 3147; 3167; 3190; 3217; 3235; 3261; 3301; 3327; 3351; 3407; 3421; 3449; 3492; 3513; 3548; 3592; 3680; 3704; 3726; 3746; 3762; 3783; 3797; 3816; 3900; 3920; 3948; 3963; 3997; 4039; 4066; 4081; 4126; 4150; 4164; 4186; 4212; 4232; 4256; 4282; 4330; 4349; 4368; 4394; 4429; 4474; 4504; 4518; 4569; 4583; 4608; 4624; 4645; 4674
FspEI	!NNNNNNNNNNNNNNNGG	124	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 629; 658; 688; 721; 763; 785; 836; 871; 913; 940; 964; 1012; 1030; 1048; 1082; 1102; 1157; 1186; 1213; 1306; 1330; 1374; 1474; 1543; 1651; 1700; 1722; 1750; 1786; 1831; 1860; 1896; 1915; 1943; 1963; 2026; 2049; 2157; 2189; 2207; 2236; 2279; 2308; 2419; 2448; 2491; 2512; 2540; 2573; 2593; 2618; 2645; 2670; 2692; 2720; 2746; 2767; 2818; 2839; 2857; 2905; 2941; 2997; 3022; 3046; 3075; 3098; 3122; 3148; 3170; 3189; 3214; 3254; 3290; 3355; 3440; 3464; 3493; 3527; 3548; 3568; 3613; 3640; 3659; 3692; 3744; 3775; 3802; 3854; 3952; 4023; 4068; 4129; 4194; 4228; 4254; 4272; 4308; 4378; 4401; 4423; 4447; 4480; 4528; 4563; 4581; 4638
Fsp4HI	GC!NGC	41	636; 681; 708; 816; 855; 894; 901; 936; 1014; 1068; 1101; 1197; 1210; 1480; 1999; 2021; 2035; 2473; 2612; 2664; 2675; 2765; 2770; 2807; 2848; 2935; 2938; 2941; 3177; 3273; 3314; 3328; 3442; 3781; 3796; 4007; 4213; 4216; 4281; 4424; 4579
GdiII	C!GGCCR	2	933; 2609
GdiII	Y!GGCCG	4	933; 2609; 3174; 3201
GlaI	GC!GC	24	596; 741; 1093; 1146; 1968; 1976; 2002; 2024; 2033; 2046; 2077; 2696; 2704; 2768; 2805; 3071; 3331; 3507; 3593; 3996; 4105; 4279; 4379; 4446
GluI	GC!NGC	41	636; 681; 708; 816; 855; 894; 901; 936; 1014; 1068; 1101; 1197; 1210; 1480; 1999; 2021; 2035; 2473; 2612; 2664; 2675; 2765; 2770; 2807; 2848; 2935; 2938; 2941; 3177; 3273; 3314; 3328; 3442; 3781; 3796; 4007; 4213; 4216; 4281; 4424; 4579
GsaI	CCCAG!C	5	815; 1160; 2250; 2322; 4321
GsaI	GCTGG!G	2	1231; 3211
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3543
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3486
HaeI	WGG!CCW	5	2524; 2785; 4147; 4599; 4610
HaeII	RGCG!Y	7	598; 743; 1148; 1970; 1978; 2706; 4381
HaeIII	GG!CC	24	84; 277; 707; 931; 935; 1178; 1333; 1669; 1811; 2466; 2472; 2481; 2524; 2611; 2785; 3176; 3203; 3712; 3769; 3802; 4147; 4581; 4599; 4610
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1378; 2899
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1344; 2865
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1377; 2898
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1346; 2867
HapII	C!CGG	22	601; 644; 932; 968; 1335; 1345; 1921; 2608; 2685; 2707; 2735; 2866; 2956; 3023; 3204; 3479; 3487; 3579; 4053; 4243; 4269; 4416
HgaI	GACGCNNNNN!	3	526; 3413; 3492
HgaI	!NNNNNNNNNNNGCGTC	3	2036; 3931; 4509
HhaI	GCG!C	24	597; 742; 1094; 1147; 1969; 1977; 2003; 2025; 2034; 2047; 2078; 2697; 2705; 2769; 2806; 3072; 3332; 3508; 3594; 3997; 4106; 4280; 4380; 4447
HinI	GR!CGYC	8	122; 175; 258; 444; 740; 2703; 3405; 3484
Hin1II	CATG!	21	304; 364; 615; 624; 714; 1047; 1134; 1185; 2133; 2273; 2345; 2436; 2577; 2922; 3108; 3139; 3165; 3521; 3905; 4625; 4676
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	2	1377; 2898
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	1345; 2866; 2896
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	3	1377; 2898; 2928

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hin4I	!NNNNNNNGAYNNNNNVTC	2	1345; 2866
Hin6I	G!CGC	24	595; 740; 1092; 1145; 1967; 1975; 2001; 2023; 2032; 2045; 2076; 2695; 2703; 2767; 2804; 3070; 3330; 3506; 3592; 3995; 4104; 4278; 4378; 4445
HinP1I	G!CGC	24	595; 740; 1092; 1145; 1967; 1975; 2001; 2023; 2032; 2045; 2076; 2695; 2703; 2767; 2804; 3070; 3330; 3506; 3592; 3995; 4104; 4278; 4378; 4445
HincII	GTY!RAC	2	1319; 1466
HindII	GTY!RAC	2	1319; 1466
HindIII	A!AGCTT	1	1300
HinfI	G!ANTC	11	410; 1746; 1768; 2178; 3188; 3322; 3374; 3432; 3469; 4251; 4647
HpaI	GTT!AAC	1	1466
HpaII	C!CGG	22	601; 644; 932; 968; 1335; 1345; 1921; 2608; 2685; 2707; 2735; 2866; 2956; 3023; 3204; 3479; 3487; 3579; 4053; 4243; 4269; 4416
HphI	GGTGANNNNNNN!	3	376; 3774; 3890
HphI	!NNNNNNNTCACC	4	633; 987; 1820; 2881
Hpy8I	GTN!NAC	10	201; 539; 577; 1122; 1319; 1466; 1750; 1767; 1822; 4309
Hpy99I	CGWCG!	9	1099; 1323; 2793; 2821; 3115; 3130; 3407; 3792; 4525
Hpy166II	GTN!NAC	10	201; 539; 577; 1122; 1319; 1466; 1750; 1767; 1822; 4309
Hpy188I	TCN!GA	11	585; 1877; 2486; 2670; 3014; 3367; 3468; 3947; 4081; 4434; 4512
Hpy188III	TC!NNGA	23	876; 1140; 1257; 1351; 2130; 2182; 2495; 2548; 2721; 3037; 3046; 3129; 3185; 3229; 3319; 3352; 3421; 3902; 3976; 4059; 4157; 4255; 4389
HpyAV	CCTTCNNNNNN!	8	759; 840; 1092; 1200; 1263; 3348; 3455; 4134
HpyAV	!NNNNNGAAGG	7	1936; 2831; 3560; 3576; 3759; 4076; 4386
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 1026; 1323; 1794; 3083; 3199; 3307; 3630; 4121; 4591; 4662
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 773; 905; 1055; 1763; 1775; 1818; 1928; 2819; 3006; 3787; 3920
HpyCH4V	TG!CA	23	837; 903; 1038; 1134; 1167; 1212; 1314; 1452; 1479; 1547; 2264; 2273; 2336; 2345; 2460; 2536; 2595; 2754; 2929; 2943; 4013; 4309; 4676
HpyF3I	C!TNAG	7	766; 2183; 2485; 3366; 3815; 3938; 4347
HpyF10VI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 644; 689; 737; 944; 1076; 1100; 1930; 1960; 1987; 2029; 2270; 2342; 2393; 2472; 2694; 2778; 2801; 2940; 3063; 3146; 3413; 3600; 3804; 4003; 4575
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 740; 2703; 3405; 3484
Hsp92II	CATG!	21	304; 364; 615; 624; 714; 1047; 1134; 1185; 2133; 2273; 2345; 2436; 2577; 2922; 3108; 3139; 3165; 3521; 3905; 4625; 4676
HspAI	G!CGC	24	595; 740; 1092; 1145; 1967; 1975; 2001; 2023; 2032; 2045; 2076; 2695; 2703; 2767; 2804; 3070; 3330; 3506; 3592; 3995; 4104; 4278; 4378; 4445
KasI	G!GCGCC	2	739; 2702
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	1327
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	1330
Ksp22I	T!GATCA	1	1360
KspAI	GTT!AAC	1	1466
Kzo9I	!GATC	25	585; 626; 941; 989; 1004; 1265; 1338; 1347; 1360; 2540; 2544; 2563; 2874; 2952; 3033; 3042; 3120; 3496; 3512; 3871; 3883; 3961; 3969; 3980; 4055
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	721; 3047; 3257
LpnI	RGCI!GCY	7	596; 741; 1146; 1968; 1976; 2704; 4379
LpnPI	CCDGNNNNNNNNN!	59	102; 295; 614; 657; 757; 775; 825; 847; 945; 981; 1048; 1102; 1170; 1258; 1348; 1440; 1745; 1934; 2157; 2195; 2211; 2251; 2306; 2323; 2423; 2508; 2621; 2698; 2720; 2743; 2879; 2893; 2912; 2969; 3036; 3086; 3102; 3159; 3217; 3426; 3492; 3516; 3592; 3681; 3784; 3817; 4048; 4066; 4212; 4232; 4256; 4282; 4331; 4429; 4474; 4504; 4583; 4608; 4645

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LpnPI	!NNNNNNNNNNNNNNCHGG	53	75; 268; 552; 586; 629; 658; 688; 917; 953; 1045; 1213; 1320; 1786; 1906; 1963; 2026; 2224; 2236; 2296; 2308; 2540; 2585; 2628; 2670; 2692; 2720; 2767; 2829; 2851; 2941; 3008; 3031; 3075; 3170; 3189; 3214; 3363; 3464; 3507; 3564; 3654; 3757; 3784; 3802; 4038; 4075; 4228; 4254; 4394; 4412; 4447; 4528; 4581
Lsp1109I	GCAGCNNNNNNNN!	8	1025; 1079; 1491; 2776; 2818; 3339; 3792; 4292
Lsp1109I	!NNNNNNNNNNNNNGCTGC	8	887; 1196; 1985; 2650; 2834; 2927; 3993; 4199
LweI	GCATCNNNNN!	10	647; 881; 1169; 1241; 1519; 2282; 2354; 3002; 3066; 3341
LweI	!NNNNNNNNNGATGC	5	357; 2661; 2916; 3132; 4524
MabI	A!CCWGGT	1	2292
MaeI	C!TAG	8	592; 1351; 1552; 1970; 2526; 3541; 3875; 4128
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 773; 905; 1055; 1763; 1775; 1818; 1928; 2819; 3006; 3787; 3920
MaeIII	!GTNAC	12	61; 148; 497; 1491; 1992; 2004; 2823; 3129; 3819; 4085; 4201; 4264
MalI	GA!TC	25	587; 628; 943; 991; 1006; 1267; 1340; 1349; 1362; 2542; 2546; 2565; 2876; 2954; 3035; 3044; 3122; 3498; 3514; 3873; 3885; 3963; 3971; 3982; 4057
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2127; 3316
MbiI	GAG!CGG	2	1963; 3370
MboI	!GATC	25	585; 626; 941; 989; 1004; 1265; 1338; 1347; 1360; 2540; 2544; 2563; 2874; 2952; 3033; 3042; 3120; 3496; 3512; 3871; 3883; 3961; 3969; 3980; 4055
MboII	GAAGANNNNNNNN!	7	636; 738; 1959; 2187; 3064; 3274; 3893
MboII	!NNNNNNNTCTTC	5	984; 3354; 3521; 3721; 3964
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1453
MfiI	R!GATCY	10	585; 1338; 1347; 2874; 3120; 3512; 3871; 3883; 3969; 3980
MhiI	GDGCH!C	15	694; 733; 967; 1034; 1180; 1298; 1335; 1894; 2649; 2742; 2816; 3006; 3068; 3778; 4311
MisI	TGG!CCA	1	2785
MluI	A!CGCGT	1	1589
MluNI	TGG!CCA	1	2785
MlyI	GAGTCNNNNN!	2	1755; 2187
MlyI	!NNNNNGACTC	4	404; 1762; 3368; 4245
Mly113I	GG!CGCC	2	740; 2703
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1796
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4228; 4412
MnII	CCTCNNNNNNN!	8	1287; 1422; 2486; 3304; 3510; 3824; 4194; 4518
MnII	!NNNNNNGAGG	18	541; 681; 879; 921; 972; 1197; 1382; 1847; 2178; 2456; 2499; 2514; 2554; 2618; 2754; 3111; 3541; 4444
Mph1103I	ATGCA!T	3	2275; 2347; 4678
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	931; 1920; 3203; 3486
MroXI	GAANN!NNTTC	1	829
MscI	TGG!CCA	1	2785
MseI	T!TAA	15	7; 1404; 1465; 1586; 1607; 1618; 1630; 1641; 1658; 1756; 2027; 3846; 3860; 3865; 3917
MslI	CAYNN!NNRTG	2	365; 3140
MspI	C!CGG	22	601; 644; 932; 968; 1335; 1345; 1921; 2608; 2685; 2707; 2735; 2866; 2956; 3023; 3204; 3479; 3487; 3579; 4053; 4243; 4269; 4416
Msp20I	TGG!CCA	1	2785
MspA1I	CMG!CKG	6	815; 1329; 2201; 2809; 4038; 4283
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	236	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; 628; 642; 656; 672; 685; 709; 723; 746; 770; 784; 818; 834; 850; 875; 888; 909; 939; 966; 980; 999; 1014; 1038; 1054; 1068; 1088; 1101; 1128; 1141; 1168; 1185; 1210; 1225; 1240; 1257; 1275; 1292; 1305; 1318; 1340; 1357; 1371; 1386; 1410; 1427; 1440; 1481; 1495; 1508; 1526; 1564; 1579; 1597; 1638; 1662; 1682; 1700; 1721; 1744; 1776; 1791; 1813; 1831; 1844; 1865; 1882; 1895; 1908; 1924; 1937; 1967; 1982; 2007; 2025; 2038; 2053; 2077; 2091; 2115; 2140; 2156; 2194; 2210; 2249; 2263; 2277; 2305; 2321; 2335; 2349; 2378; 2391; 2412; 2421; 2443; 2473; 2489; 2507; 2537; 2560; 2584; 2608; 2627; 2655; 2681; 2697; 2710; 2733; 2747; 2767; 2780; 2794; 2813; 2827; 2840; 2856; 2871; 2884; 2900; 2915; 2931; 2956; 2975; 2991; 3004; 3017; 3035; 3049; 3063; 3079; 3101; 3117; 3136; 3158; 3174; 3197; 3216; 3230; 3246; 3260; 3280; 3296; 3309; 3331; 3364; 3378; 3398; 3411; 3425; 3479; 3492; 3515; 3528; 3547; 3564; 3591; 3627; 3660; 3679; 3704; 3725; 3752; 3765; 3782; 3796; 3811; 3827; 3887; 3912; 3928; 3950; 3963; 3977; 4008; 4022; 4047; 4065; 4080; 4093; 4112; 4125; 4140; 4169; 4188; 4206; 4231; 4246; 4265; 4281; 4300; 4318; 4334; 4348; 4367; 4394; 4417; 4439; 4458; 4473; 4486; 4503; 4523; 4550; 4563; 4582; 4607; 4630; 4644; 4657; 4674
MspJI	!NNNNNNNNNNNNYNG	199	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 598; 616; 637; 655; 683; 706; 730; 748; 765; 785; 806; 824; 855; 883; 900; 918; 940; 962; 988; 1012; 1030; 1050; 1071; 1100; 1117; 1143; 1168; 1186; 1210; 1231; 1249; 1267; 1285; 1314; 1331; 1355; 1384; 1413; 1455; 1538; 1576; 1600; 1623; 1652; 1696; 1718; 1750; 1786; 1803; 1824; 1861; 1881; 1898; 1915; 1950; 1968; 1986; 2003; 2027; 2049; 2076; 2104; 2130; 2168; 2189; 2206; 2224; 2247; 2268; 2296; 2319; 2340; 2358; 2379; 2396; 2419; 2443; 2463; 2481; 2503; 2534; 2556; 2582; 2601; 2618; 2646; 2665; 2684; 2702; 2720; 2741; 2763; 2787; 2820; 2840; 2858; 2879; 2905; 2932; 2949; 2966; 2983; 3009; 3031; 3053; 3071; 3091; 3110; 3132; 3170; 3190; 3214; 3234; 3254; 3281; 3305; 3338; 3357; 3385; 3407; 3436; 3464; 3489; 3508; 3527; 3548; 3565; 3582; 3613; 3640; 3660; 3683; 3703; 3740; 3757; 3776; 3802; 3822; 3861; 3888; 3907; 3925; 3962; 3980; 4021; 4039; 4065; 4082; 4114; 4143; 4171; 4192; 4215; 4234; 4255; 4273; 4290; 4308; 4334; 4355; 4375; 4395; 4413; 4434; 4460; 4477; 4496; 4515; 4544; 4563; 4581; 4600; 4618; 4636; 4659
MspR9I	CC!NGG	17	90; 283; 1335; 1336; 2239; 2294; 2311; 2707; 2867; 3090; 3480; 3669; 3772; 4244; 4462; 4475; 4596
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1453
MvaI	CC!WGG	11	90; 283; 2239; 2294; 2311; 3090; 3669; 3772; 4462; 4475; 4596
MvaI269I	GAATGCN!	1	1454
MvaI269I	G!CATTC	2	1270; 1547
MvnI	CG!CG	19	60; 938; 1094; 1199; 1329; 1591; 1627; 2003; 2023; 2047; 2078; 2769; 3070; 3508; 3592; 3655; 3724; 3997; 4578
MvrI	CGAT!CG	1	1268
MwoI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 644; 689; 737; 944; 1076; 1100; 1930; 1960; 1987; 2029; 2270; 2342; 2393; 2472; 2694; 2778; 2801; 2940; 3063; 3146; 3413; 3600; 3804; 4003; 4575
NaeI	GCC!GGC	4	933; 1922; 3205; 3488
NarI	GG!CGCC	2	740; 2703
NciI	CC!SGG	6	1335; 1336; 2707; 2867; 3480; 4244
NcoI	C!CATGG	4	360; 1043; 2432; 3135
NdeI	CA!TATG	1	234
NdeII	!GATC	25	585; 626; 941; 989; 1004; 1265; 1338; 1347; 1360; 2540; 2544; 2563; 2874; 2952; 3033; 3042; 3120; 3496; 3512; 3871; 3883; 3961; 3969; 3980; 4055
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	931; 1920; 3203; 3486
NheI	G!CTAGC	1	591

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NlaIII	CATG!	21	304; 364; 615; 624; 714; 1047; 1134; 1185; 2133; 2273; 2345; 2436; 2577; 2922; 3108; 3139; 3165; 3521; 3905; 4625; 4676
NlaIV	GGN!NCC	24	467; 648; 693; 741; 804; 966; 1177; 1178; 1325; 1333; 1340; 1858; 1879; 1891; 2082; 2243; 2315; 2704; 2739; 3587; 3666; 3711; 4554; 4593
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	663; 1535; 1850; 3442
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 757; 4514
Nli3877I	CYCGR!G	4	701; 980; 1295; 1338
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2492; 2928
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2457
NmeDI	RCCGGYNNNNNNNN!	8	612; 655; 943; 979; 1932; 3034; 3215; 3498
NmeDI	!NNNNNNNNNNNNRCCGGY	8	587; 630; 918; 954; 1907; 3009; 3190; 3473
NmuCI	!GTSAC	3	1992; 2823; 3129
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2805
NsiI	ATGCA!T	3	2275; 2347; 4678
NspI	RCATG!Y	5	1134; 2273; 2345; 3108; 4625
NspV	TT!CGAA	2	1305; 3385
OliI	CACNN!NNGTG	0	
PabI	GTA!C	10	220; 245; 300; 333; 384; 541; 884; 1244; 1326; 3010
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2273; 2345; 3108
PaeR7I	C!TCGAG	1	1291
PagI	T!CATGA	2	2129; 3901
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3668; 3771
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2524
PciI	A!CATGT	1	4621
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	3	721; 3047; 3257
PcsI	WCGNNNN!NNNCGW	7	881; 2997; 3074; 3317; 3391; 3784; 4302
PctI	GAATGCN!	1	1454
PctI	G!CATTC	2	1270; 1547
PdiI	GCC!GGC	4	933; 1922; 3205; 3488
PdmI	GAANN!NNTTC	1	829
PfeI	G!AWTC	5	3188; 3322; 3432; 3469; 4647
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2821
PfIMI	CCANNNN!NTGG	1	777
PfoI	T!CCNGGA	1	3478
PhoI	GG!CC	24	84; 277; 707; 931; 935; 1178; 1333; 1669; 1811; 2466; 2472; 2481; 2524; 2611; 2785; 3176; 3203; 3712; 3769; 3802; 4147; 4581; 4599; 4610
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3084
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2649; 2904
PleI	GAGTCNNNN!	2	1754; 2186
PleI	!NNNNNGACTC	4	404; 1762; 3368; 4245
Ple19I	CGAT!CG	1	1268
PmaCI	CAC!GTG	2	774; 906
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	2	774; 906
PpiI	GAACNNNNNNCTCNNNNNNNNNNNN!	1	1785
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3915
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3947
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1753
PpsI	GAGTCNNNN!	2	1754; 2186
PpsI	!NNNNNGACTC	4	404; 1762; 3368; 4245
Ppu10I	A!TGCAT	3	2271; 2343; 4674
Ppu21I	YAC!GTR	5	340; 774; 906; 1819; 3007
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4621
PshAI	GACNN!NNGTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1486; 1691
Psp03I	GGWC!C	2	3222; 3667
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	11	88; 281; 2237; 2292; 2309; 3088; 3667; 3770; 4460; 4473; 4594
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1298
PspCI	CAC!GTG	2	774; 906
PspEI	G!GTNACC	0	
PspGI	!CCWGG	11	88; 281; 2237; 2292; 2309; 3088; 3667; 3770; 4460; 4473; 4594
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	24	467; 648; 693; 741; 804; 966; 1177; 1178; 1325; 1333; 1340; 1858; 1879; 1891; 2082; 2243; 2315; 2704; 2739; 3587; 3666; 3711; 4554; 4593
PspOMI	G!GGCCC	2	1176; 1331
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 2433; 3432
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2835
PspPI	G!GNCC	11	83; 276; 705; 1177; 1332; 1810; 3219; 3664; 3710; 3768; 3801
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	5	830; 1175; 2256; 2328; 3834
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	2169; 3364
PspXI	VC!TCGAGB	1	1291
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	1179; 3804
PstI	CTGCA!G	2	1169; 1316
PstNI	CAGNN!CTG	2	3804; 4212
PsuI	R!GATCY	10	585; 1338; 1347; 2874; 3120; 3512; 3871; 3883; 3969; 3980
PsyI	GACN!NNGTC	1	2821
PteI	G!CGCGC	0	
PvuI	CGAT!CG	1	1268
PvuII	CAG!CTG	2	2201; 2809
RcaI	T!CATGA	2	2129; 3901
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	3218
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	1	935
RleAI	CCCACANNNNNNNNNNNNNN!	1	1432
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	2	911; 1004
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	10	219; 244; 299; 332; 383; 540; 883; 1243; 1325; 3009
RsaNI	G!TAC	10	218; 243; 298; 331; 382; 539; 882; 1242; 1324; 3008
RseI	CAYNN!NNRTG	2	365; 3140
RsrII	CG!GWCCG	1	3219
Rsr2I	CG!GWCCG	1	3219
SacI	GAGCT!C	1	1298
SacII	CCGC!GG	1	1330
SalI	G!TCGAC	1	1317
SapI	GCTTCN!	0	
SapI	!NNNNGAAGAGC	3	721; 3047; 3257
SaqAI	T!TAA	15	7; 1404; 1465; 1586; 1607; 1618; 1630; 1641; 1658; 1756; 2027; 3846; 3860; 3865; 3917
SatI	GC!NGC	41	636; 681; 708; 816; 855; 894; 901; 936; 1014; 1068; 1101; 1197; 1210; 1480; 1999; 2021; 2035; 2473; 2612; 2664; 2675; 2765; 2770; 2807; 2848; 2935; 2938; 2941; 3177; 3273; 3314; 3328; 3442; 3781; 3796; 4007; 4213; 4216; 4281; 4424; 4579
Sau96I	G!GNCC	11	83; 276; 705; 1177; 1332; 1810; 3219; 3664; 3710; 3768; 3801
Sau3AI	!GATC	25	585; 626; 941; 989; 1004; 1265; 1338; 1347; 1360; 2540; 2544; 2563; 2874; 2952; 3033; 3042; 3120; 3496; 3512; 3871; 3883; 3961; 3969; 3980; 4055



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1755; 2187
SchI	!NNNNNGACTC	4	404; 1762; 3368; 4245
SciI	CTC!GAG	1	1293
ScrFI	CC!NGG	17	90; 283; 1335; 1336; 2239; 2294; 2311; 2707; 2867; 3090; 3480; 3669; 3772; 4244; 4462; 4475; 4596
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	4	2281; 2353; 2522; 4464
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2858; 3343
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	15	694; 733; 967; 1034; 1180; 1298; 1335; 1894; 2649; 2742; 2816; 3006; 3068; 3778; 4311
SelI	!CGCG	19	58; 936; 1092; 1197; 1327; 1589; 1625; 2001; 2021; 2045; 2076; 2767; 3068; 3506; 3590; 3653; 3722; 3995; 4576
SetI	ASST!	69	125; 137; 178; 261; 308; 342; 447; 552; 568; 674; 751; 764; 776; 808; 908; 913; 919; 959; 1037; 1058; 1072; 1084; 1114; 1211; 1229; 1286; 1292; 1298; 1304; 1393; 1414; 1423; 1435; 1484; 1651; 1766; 1778; 1821; 1858; 1908; 1931; 2055; 2203; 2298; 2491; 2604; 2732; 2811; 2822; 2894; 2965; 3009; 3269; 3415; 3459; 3790; 3821; 3880; 3923; 4066; 4087; 4186; 4323; 4338; 4357; 4369; 4413; 4459; 4510
SexAI	A!CCWGGT	1	2292
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	647; 881; 1169; 1241; 1519; 2282; 2354; 3002; 3066; 3341
SfaNI	!NNNNNNNNNGATGC	5	357; 2661; 2916; 3132; 4524
Sfcl	C!TRYAG	7	1107; 1165; 1285; 1312; 2038; 4165; 4356
SfiI	GGCCNNNN!NGGCC	1	2478
SfoI	GGC!GCC	2	741; 2704
Sfr274I	C!TCGAG	1	1291
Sfr303I	CCGC!GG	1	1330
SfuI	TT!CGAA	2	1305; 3385
SgeI	CNNGNNNNNNNNN!	188	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 642; 656; 672; 685; 709; 723; 747; 774; 824; 846; 881; 897; 916; 939; 966; 980; 999; 1014; 1038; 1056; 1072; 1088; 1101; 1128; 1143; 1169; 1185; 1210; 1236; 1257; 1275; 1293; 1311; 1340; 1357; 1410; 1439; 1481; 1564; 1602; 1638; 1722; 1744; 1776; 1813; 1831; 1850; 1865; 1907; 1924; 1941; 1976; 1990; 2007; 2029; 2053; 2077; 2142; 2156; 2194; 2210; 2250; 2263; 2282; 2305; 2322; 2335; 2354; 2384; 2405; 2422; 2445; 2480; 2507; 2538; 2560; 2586; 2608; 2627; 2655; 2691; 2710; 2733; 2747; 2767; 2780; 2794; 2813; 2827; 2846; 2878; 2892; 2905; 2931; 2962; 2975; 2992; 3009; 3023; 3040; 3058; 3073; 3101; 3117; 3136; 3158; 3174; 3197; 3216; 3241; 3260; 3280; 3307; 3331; 3364; 3383; 3411; 3425; 3491; 3515; 3530; 3553; 3574; 3591; 3639; 3666; 3680; 3709; 3733; 3766; 3783; 3803; 3816; 3829; 3887; 3914; 3933; 3963; 3988; 4008; 4022; 4047; 4065; 4102; 4140; 4169; 4197; 4211; 4231; 4246; 4267; 4281; 4300; 4318; 4334; 4374; 4394; 4421; 4439; 4460; 4473; 4486; 4503; 4527; 4550; 4582; 4607; 4634; 4656
SgeI	!NNNNNNNNNNNNCNG	166	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 616; 637; 655; 683; 706; 730; 748; 798; 820; 855; 883; 913; 940; 962; 988; 1012; 1030; 1062; 1079; 1102; 1126; 1143; 1168; 1186; 1210; 1231; 1249; 1267; 1285; 1314; 1331; 1384; 1413; 1455; 1538; 1576; 1612; 1696; 1718; 1750; 1787; 1805; 1824; 1881; 1898; 1915; 1950; 1968; 1988; 2008; 2027; 2051; 2116; 2168; 2224; 2256; 2279; 2296; 2328; 2358; 2379; 2396; 2419; 2454; 2481; 2512; 2534; 2560; 2582; 2601; 2629; 2665; 2684; 2707; 2728; 2746; 2763; 2787; 2820; 2852; 2879; 2905; 2936; 2966; 2983; 3009; 3032; 3053; 3075; 3095; 3115; 3132; 3171; 3190; 3215; 3234; 3254; 3281; 3305; 3338; 3357; 3385; 3407; 3465; 3489; 3508; 3527; 3548; 3565; 3613; 3640; 3660; 3683; 3707; 3740; 3757; 3777; 3803; 3861; 3888; 3907; 3937; 3962; 3982; 4021; 4039; 4076; 4114; 4143; 4171; 4192; 4220; 4241; 4274; 4292; 4348; 4368; 4395; 4413; 4434; 4460; 4477; 4501; 4524; 4556; 4581; 4608; 4630; 4659

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	1330
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1850; 3637; 4430
SimI	!GACCC	5	106; 1259; 3131; 3699; 3947
SinI	G!GWCC	2	3219; 3664
SlaI	C!TCGAG	1	1291
SmaI	CCC!GGG	1	1336
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	2	365; 3140
SmlI	C!TYRAG	6	1291; 1297; 3094; 3976; 4253; 4515
SmoI	C!TYRAG	6	1291; 1297; 3094; 3976; 4253; 4515
SmuI	CCCGNNNN!	11	93; 119; 286; 624; 877; 1084; 2025; 2380; 2401; 3597; 3729
SmuI	!NNNNNNGCGGG	6	1322; 1956; 2826; 3363; 3501; 3648
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2273; 2345; 3108
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 1307; 1453; 1517; 1595; 1621; 1632; 2279; 2351; 2443; 3861
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2524
SsiI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 617; 636; 708; 870; 921; 936; 1011; 1077; 1194; 1197; 1327; 2018; 2021; 2035; 2125; 2373; 2385; 2394; 2406; 2416; 2427; 2473; 2612; 2675; 3177; 3222; 3288; 3314; 3439; 3442; 3590; 3722; 4029; 4173; 4669
SsiI	G!CGG	30	370; 403; 528; 680; 683; 815; 854; 893; 1100; 1329; 1963; 1990; 2078; 2188; 2769; 2833; 2934; 2937; 3217; 3272; 3370; 3508; 3655; 3795; 4038; 4283; 4404; 4423; 4550; 4578
SspI	AAT!ATT	2	1611; 2164
SspDI	G!GCGCC	2	739; 2702
SspD5I	GGTGANNNNNNNN!	3	376; 3774; 3890
SspD5I	!NNNNNNNNNTCACC	4	632; 986; 1819; 2880
SstI	GAGCT!C	1	1298
SstII	CCGC!GG	1	1330
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 623; 704; 876; 983; 1083; 1270; 1341; 1902; 2024; 2379; 2400; 2713; 3116; 3255; 3326; 3596; 3728; 3958; 4396
Sth132I	!NNNNNNNNCGGG	20	15; 407; 470; 1164; 1321; 1903; 1955; 2056; 2783; 2825; 2858; 3362; 3471; 3500; 3647; 3751; 3782; 4235; 4279; 4487
Sth302II	CC!GG	22	602; 645; 933; 969; 1336; 1346; 1922; 2609; 2686; 2708; 2736; 2867; 2957; 3024; 3205; 3480; 3488; 3580; 4054; 4244; 4270; 4417
StrI	C!TCGAG	1	1291
StsI	GGATGNNNNNNNNNN!	4	2571; 3028; 3053; 3507
StsI	!NNNNNNNNNNNNNNNNNNCATCC	3	993; 1134; 2375
StuI	AGG!CCT	1	2524
StyI	C!CWGGG	7	360; 734; 1043; 2432; 2525; 3135; 3540
StyD4I	!CCNGG	17	88; 281; 1333; 1334; 2237; 2292; 2309; 2705; 2865; 3088; 3478; 3667; 3770; 4242; 4460; 4473; 4594
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 1026; 1323; 1794; 3083; 3199; 3307; 3630; 4121; 4591; 4662
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 776; 908; 1058; 1766; 1778; 1821; 1931; 2822; 3009; 3790; 3923
TaqI	T!CGA	17	629; 668; 875; 1292; 1305; 1318; 1852; 2543; 2816; 2972; 2996; 3032; 3194; 3385; 3430; 3685; 4523
TaqII	GACCGANNNNNNNNNN!	3	1723; 2740; 3408
TaqII	!NNNNNNNNNTCGGTC	1	3652
TaqII	CACCCANNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	3	172; 2607; 3199

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TasI	!AATT	11	18; 1307; 1453; 1517; 1595; 1621; 1632; 2279; 2351; 2443; 3861
TatI	W!GTACW	4	217; 297; 330; 381
TauI	GCSG!C	24	638; 683; 710; 818; 857; 896; 938; 1103; 1199; 2023; 2037; 2475; 2614; 2677; 2772; 2937; 2940; 3179; 3275; 3316; 3444; 3798; 4426; 4581
TfiI	G!AWTC	5	3188; 3322; 3432; 3469; 4647
TliI	C!TCGAG	1	1291
TruII	T!TAA	15	7; 1404; 1465; 1586; 1607; 1618; 1630; 1641; 1658; 1756; 2027; 3846; 3860; 3865; 3917
Tru9I	T!TAA	15	7; 1404; 1465; 1586; 1607; 1618; 1630; 1641; 1658; 1756; 2027; 3846; 3860; 3865; 3917
TscAI	CASTGNN!	5	1549; 2832; 3942; 4213; 4226
TseI	G!CWGC	17	900; 1013; 1067; 1209; 1479; 1998; 2663; 2764; 2806; 2847; 2940; 3327; 3780; 4006; 4212; 4215; 4280
TsoI	TARCCANNNNNNNNNNN!	2	1675; 2022
TsoI	!NNNNNNNNNTGGYTA	2	1480; 3232
Tsp45I	!GTSAC	3	1992; 2823; 3129
Tsp509I	!AATT	11	18; 1307; 1453; 1517; 1595; 1621; 1632; 2279; 2351; 2443; 3861
TspDTI	ATGAANNNNNNNNNNN!	5	637; 739; 1461; 2762; 3466
TspDTI	!NNNNNNNNNTTCAT	4	26; 3180; 3636; 3843
TspEI	!AATT	11	18; 1307; 1453; 1517; 1595; 1621; 1632; 2279; 2351; 2443; 3861
TspGWI	ACGGANNNNNNNNNNN!	1	3578
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1334
TspRI	CASTGNN!	5	1549; 2832; 3942; 4213; 4226
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2821
Tth111II	CAARCANNNNNNNNNNN!	1	4030
Tth111III	!NNNNNNNNNTGYTTG	3	3138; 3998; 4037
UnbI	!GNCC	11	82; 275; 704; 1176; 1331; 1809; 3218; 3663; 3709; 3767; 3800
Van9II	CCANNNN!NTGG	1	777
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	1	4307
VpaK11AI	!GGWCC	2	3218; 3663
VpaK11BI	G!GWCC	2	3219; 3664
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	1307; 1517; 1621; 1632
XbaI	T!CTAGA	1	1350
XceI	RCATG!Y	5	1134; 2273; 2345; 3108; 4625
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1291
XhoII	R!GATCY	10	585; 1338; 1347; 2874; 3120; 3512; 3871; 3883; 3969; 3980
XmaI	C!CCGGG	1	1334
XmaJI	C!CTAGG	2	2525; 3540
XmiI	GT!MKAC	1	1318
XmnI	GAANN!NNTTC	1	829
XspI	C!TAG	8	592; 1351; 1552; 1970; 2526; 3541; 3875; 4128
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2275; 2347; 4678