

pTurboYFP-N vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1552; 1757
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1840; 2796; 4585
AatI	AGG!CCT	1	2590
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	640
AccII	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1418; 1693; 2069; 2089; 2113; 2144; 2835; 3136; 3574; 3658; 3721; 3790; 4063; 4644
AccIII	T!CCGGA	1	1393
Acc16I	TGC!GCA	1	2871
Acc36I	ACCTGCNNNN!	2	3037; 3487
Acc36I	!NNNNNNNNGCAGGT	1	2656
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	7	465; 645; 688; 877; 1922; 2768; 2803
AccB7I	CCANNNN!NTGG	1	1080
AccBSI	CCG!CTC	2	2193; 3382
AccBSI	GAG!CGG	2	2029; 3436
AceIII	CAGCTCNNNNNNN!	1	1725
AceIII	!NNNNNNNNNNGAGCTG	3	552; 895; 915
AciI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 649; 765; 996; 1320; 1365; 1416; 2084; 2087; 2101; 2191; 2439; 2451; 2460; 2472; 2482; 2493; 2539; 2678; 2741; 3243; 3288; 3354; 3380; 3505; 3508; 3656; 3788; 4095; 4239; 4735
AciI	G!CGG	29	370; 403; 528; 651; 686; 767; 1244; 1247; 1412; 2029; 2056; 2144; 2254; 2835; 2899; 3000; 3003; 3283; 3338; 3436; 3574; 3721; 3861; 4104; 4349; 4470; 4489; 4616; 4644
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	8	668; 2637; 2948; 3194; 3586; 3945; 4043; 4129
AclWI	!NNNNNGATCC	7	580; 655; 705; 3013; 3557; 3944; 4041
AcoI	Y!GGCCR	9	747; 1050; 1071; 1211; 1413; 2675; 2849; 3240; 3267
AcsI	R!AATY	4	629; 1583; 1687; 1698
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	5	931; 1174; 1357; 2915; 3347
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	741; 4145
AcvI	CAC!GTG	3	1077; 1260; 1290
AcyI	GR!CGYC	10	122; 175; 258; 444; 689; 878; 1385; 2769; 3471; 3550
AdeI	CACNNN!GTG	1	1885
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 647; 898; 1030; 1123; 1270; 3075
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	22	49; 720; 771; 845; 1002; 1080; 1243; 1781; 2107; 2499; 2750; 3294; 3575; 3607; 3739; 3774; 3824; 3856; 4209; 4488; 4654; 4672
AfIII	C!TTAAG	1	1651
AfIII	A!CRYGT	1	4687
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	9	990; 1062; 1101; 1167; 2180; 2224; 2234; 2647; 4223
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	14	88; 281; 844; 854; 1052; 2303; 2358; 2375; 3154; 3733; 3836; 4526; 4539; 4660
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	856
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	2	2343; 2415
AlfI	!NNNNNNNNNGCANNNNNTGC	2	2309; 2381
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	1851
AloI	!NNNNNNNGGANNNNNNGTTC	1	796
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	1	828
AloI	!NNNNNNNGAACNNNNNTCC	1	1819
AluI	AG!CT	20	566; 618; 624; 909; 929; 1044; 1283; 1296; 1406; 1548; 1715; 1972; 2267; 2555; 2875; 3333; 4130; 4387; 4433; 4523
AluBI	AG!CT	20	566; 618; 624; 909; 929; 1044; 1283; 1296; 1406; 1548; 1715; 1972; 2267; 2555; 2875; 3333; 4130; 4387; 4433; 4523
AlwI	GGATCNNNN!	8	668; 2637; 2948; 3194; 3586; 3945; 4043; 4129
AlwI	!NNNNNGATCC	7	580; 655; 705; 3013; 3557; 3944; 4041
Alw21I	GWGCW!C	6	620; 853; 1259; 2882; 3072; 4377
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1336; 2193; 2611; 3630; 3758
Alw44I	G!TGCAC	2	1255; 4373
AlwNI	CAGNNN!CTG	2	3870; 4278
Ama87I	C!YCGRG	4	613; 656; 904; 1264
Aor13HI	T!CCGGA	1	1393
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNNN!TGC	3	2337; 2409; 3871
ApaLI	G!TGCAC	2	1255; 4373
ApeKI	G!CWGC	17	683; 929; 1022; 1190; 1545; 2064; 2729; 2830; 2872; 2913; 3006; 3393; 3846; 4072; 4278; 4281; 4346
ApoI	R!AATTY	4	629; 1583; 1687; 1698
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3284
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3078; 3731; 4569
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3168
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	878
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2597
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	3339
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	25	586; 610; 661; 711; 1135; 1182; 1216; 1315; 1427; 2607; 2611; 2630; 2941; 3019; 3100; 3109; 3187; 3563; 3579; 3938; 3950; 4028; 4036; 4047; 4122
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2887
Asp700I	GAANN!NNTTC	1	916
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	2591; 3606
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	28	597; 691; 880; 959; 1000; 1162; 1352; 1354; 2035; 2043; 2069; 2091; 2100; 2113; 2144; 2763; 2771; 2835; 2872; 3138; 3398; 3574; 3660; 4063; 4172; 4346; 4446; 4513
AspS9I	G!GNCC	11	83; 276; 654; 901; 1249; 1876; 3285; 3730; 3776; 3834; 3867
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 3451
AsuC2I	CC!SGG	6	657; 658; 2773; 2933; 3546; 4310
AsuHPI	GGTGANNNNNNNN!	5	376; 870; 1017; 3840; 3956
AsuHPI	!NNNNNNNTCACC	6	957; 1098; 1176; 1309; 1886; 2947
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	613; 656; 904; 1264
AvaII	G!GWCC	2	3285; 3730
AviII	TGC!GCA	1	2871
AvrII	C!CTAGG	2	2591; 3606

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AxyI	CC!TNAGG	2	2249; 3881
BaeI	ACNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	657; 839; 845; 1259; 1265; 2715; 2808; 4377
BalI	TGG!CCA	4	749; 1052; 1073; 2851
BamHI	G!GATCC	1	660
BanI	G!GYRCC	7	465; 645; 688; 877; 1922; 2768; 2803
BanII	GRGCY!C	5	620; 657; 1960; 3134; 3844
BanIII	AT!CGAT	1	2609
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	1	936
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	1	904
BasI	CCANNNN!NTGG	1	1080
BauI	C!ACGAG	3	1177; 3487; 4514
BauI	C!TCGTG	1	3361
BbeI	GGCGC!C	3	692; 881; 2772
Bbr7I	GAAGACNNNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	3	1077; 1260; 1290
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	4	936; 2339; 2411; 3174
BbvI	GCAGCNNNNNNNN!	9	695; 1034; 1202; 1557; 2842; 2884; 3405; 3858; 4358
BbvI	!NNNNNNNNNNNGCTGC	7	916; 2051; 2716; 2900; 2993; 4059; 4265
Bbv12I	GWGCW!C	6	620; 853; 1259; 2882; 3072; 4377
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	970; 1246; 1899; 2463; 2989; 3491
BccI	!NNNNNGATGG	8	723; 739; 934; 973; 1063; 1867; 2647; 3075
BceAI	ACGGCNNNNNNNNNNNN!	7	720; 795; 891; 915; 1164; 3195; 3682
BceAI	!NNNNNNNNNNNNNGCCGT	4	1339; 1910; 2728; 4187
BceFI	ACGGCNNNNNNNNNNNN!	7	720; 795; 891; 915; 1164; 3195; 3682
BceFI	!NNNNNNNNNNNNNGCCGT	4	1340; 1911; 2729; 4188
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2198; 2988; 4489
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	6	657; 658; 2773; 2933; 3546; 4310
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNNN!	1	4622
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	1	4588
BfaI	C!TAG	8	592; 1424; 1618; 2036; 2592; 3607; 3941; 4194
BfiI	ACTGGGNNNNN!	1	2718
BfiI	!NNNNCCCAGT	4	289; 804; 876; 2470
BfmI	C!TRYAG	4	634; 2104; 4231; 4422
BfoI	RGCGC!Y	8	598; 692; 881; 1163; 2036; 2044; 2772; 4447
BfrI	C!TTAAG	1	1651
BfuI	GTATCCNNNNNN!	3	2198; 2988; 4489
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3037; 3487
BfuAI	!NNNNNNNNNGCAGGT	1	2656
BfuCI	!GATC	25	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1426; 2606; 2610; 2629; 2940; 3018; 3099; 3108; 3186; 3562; 3578; 3937; 3949; 4027; 4035; 4046; 4121
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2544
BglII	A!GATCT	1	609

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BisI	GC!NGC	39	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1413; 1416; 1546; 2065; 2087; 2101; 2539; 2678; 2730; 2741; 2831; 2836; 2873; 2914; 3001; 3004; 3007; 3243; 3339; 3380; 3394; 3508; 3847; 3862; 4073; 4279; 4282; 4347; 4490; 4645
BlnI	C!CTAGG	2	2591; 3606
BlpI	GC!TNAGC	1	1297
BlsI	GCN!GC	39	685; 688; 769; 931; 1024; 1192; 1246; 1249; 1366; 1414; 1417; 1547; 2066; 2088; 2102; 2540; 2679; 2731; 2742; 2832; 2837; 2874; 2915; 3002; 3005; 3008; 3244; 3340; 3381; 3395; 3509; 3848; 3863; 4074; 4280; 4283; 4348; 4491; 4646
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	3285; 3730
Bme1390I	CC!NGG	20	90; 283; 657; 658; 846; 856; 1054; 2305; 2360; 2377; 2773; 2933; 3156; 3546; 3735; 3838; 4310; 4528; 4541; 4662
BmeRI	GACNN!NNGTC	0	
BmeT110I	C!YCGRG	4	613; 656; 904; 1264
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	84; 277; 655; 902; 1250; 1877; 3286; 3731; 3777; 3835; 3868
BmiI	GGN!NCC	22	467; 647; 655; 662; 690; 879; 903; 1251; 1392; 1924; 1945; 1957; 2148; 2309; 2381; 2770; 2805; 3653; 3732; 3777; 4620; 4659
BmrI	ACTGGGNNNNN!	1	2718
BmrI	!NNNNCCCAGT	4	289; 804; 876; 2470
BmrFI	CC!NGG	20	90; 283; 657; 658; 846; 856; 1054; 2305; 2360; 2377; 2773; 2933; 3156; 3546; 3735; 3838; 4310; 4528; 4541; 4662
BmsI	GCATCNNNNN!	7	770; 1585; 2348; 2420; 3068; 3132; 3407
BmsI	!NNNNNNNNNGATGC	7	357; 774; 795; 2727; 2982; 3198; 4590
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2718
BmuI	!NNNNCCCAGT	4	289; 804; 876; 2470
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNNN!	2	2558; 3457
BpI	!NNNNNNNNGAGNNNNNCTC	2	2526; 3425
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	867; 1114; 3609
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3552
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 3451
Bpu1102I	GC!TNAGC	1	1297
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4063; 4602
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	604; 3145; 4304
BpuMI	CC!SGG	6	657; 658; 2773; 2933; 3546; 4310
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1336; 3758
Bsa29I	AT!CGAT	1	2609
BsaAI	YAC!GTR	8	340; 720; 948; 1077; 1260; 1290; 1885; 3073
BsaBI	GATNN!NNATC	2	1431; 2628
BsaHI	GR!CGYC	10	122; 175; 258; 444; 689; 878; 1385; 2769; 3471; 3550
BsaJI	C!CNNGG	22	360; 649; 656; 702; 765; 844; 854; 1001; 1053; 1355; 2303; 2375; 2498; 2533; 2542; 2591; 2932; 3201; 3606; 3734; 3837; 4527
BsaMI	GAATGCN!	1	1520
BsaMI	G!CATTC	1	1613
BsaWI	W!CCGGW	7	600; 666; 1393; 2800; 3644; 4334; 4481
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1849
BsaXI	!NNNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1819
BsbI	CAACACNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTTG	2	1770; 3677

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Bsc4I	CCNNNNN!NNGG	22	49; 720; 771; 845; 1002; 1080; 1243; 1781; 2107; 2499; 2750; 3294; 3575; 3607; 3739; 3774; 3824; 3856; 4209; 4488; 4654; 4672
BscAI	GCATCNNNN!	7	769; 1584; 2347; 2419; 3067; 3131; 3406
BscAI	!NNNNNNGATGC	7	360; 777; 798; 2730; 2985; 3201; 4593
BseI	ACTGGN!	3	2713; 2914; 4160
BseI	C!CAGT	7	295; 810; 882; 1798; 2476; 4272; 4285
Bse8I	GATNN!NNATC	2	1431; 2628
Bse21I	CC!TNAGG	2	2249; 3881
Bse118I	R!CCGGY	8	666; 826; 1186; 1387; 1986; 3088; 3269; 3552
BseAI	T!CCGGA	1	1393
BseBI	CC!WGG	14	90; 283; 846; 856; 1054; 2305; 2360; 2377; 3156; 3735; 3838; 4528; 4541; 4662
BseCI	AT!CGAT	1	2609
BseDI	C!CNNGG	22	360; 649; 656; 702; 765; 844; 854; 1001; 1053; 1355; 2303; 2375; 2498; 2533; 2542; 2591; 2932; 3201; 3606; 3734; 3837; 4527
Bse3DI	GCAATGNN!	2	744; 3002
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	8	750; 810; 1074; 1311; 2629; 3086; 3111; 3565
BseGI	!CATCC	2	761; 2455
BseJI	GATNN!NNATC	2	1431; 2628
BseLI	CCNNNNN!NNGG	22	49; 720; 771; 845; 1002; 1080; 1243; 1781; 2107; 2499; 2750; 3294; 3575; 3607; 3739; 3774; 3824; 3856; 4209; 4488; 4654; 4672
BseMI	GCAATGNN!	2	744; 3002
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	620; 3895
BseMII	!NNNNNNNNCTGAG	6	1288; 2240; 2542; 3423; 3995; 4404
BseNI	ACTGGN!	3	2713; 2914; 4160
BseNI	C!CAGT	7	295; 810; 882; 1798; 2476; 4272; 4285
BsePI	G!CGCGC	1	1350
BseRI	GAGGAGNNNNNNNNNN!	1	2587
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	8	657; 839; 845; 1259; 1265; 2715; 2808; 4377
BseXI	GCAGC!NNNNNNNN!	9	695; 1034; 1202; 1557; 2842; 2884; 3405; 3858; 4358
BseXI	!NNNNNNNNNNNGCTGC	7	916; 2051; 2716; 2900; 2993; 4059; 4265
BseX3I	C!GGCCG	2	1413; 2675
BseYI	C!CCAGC	3	2312; 2384; 4383
BseYI	G!CTGGG	2	1080; 3273
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	970
BsgI	!NNNNNNNNNNNNNNNNCTGCAC	1	804
Bsh1236I	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1418; 1693; 2069; 2089; 2113; 2144; 2835; 3136; 3574; 3658; 3721; 3790; 4063; 4644
Bsh1285I	CGRY!CG	4	671; 1416; 2678; 4353
BshFI	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1415; 1735; 1877; 2532; 2538; 2547; 2590; 2677; 2851; 3242; 3269; 3778; 3835; 3868; 4213; 4647; 4665; 4676
BshNI	G!GYRCC	7	465; 645; 688; 877; 1922; 2768; 2803
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	2609
BsiEI	CGRY!CG	4	671; 1416; 2678; 4353
BsiHKAI	GWGCW!C	6	620; 853; 1259; 2882; 3072; 4377
BsiHKCI	C!YCGRG	4	613; 656; 904; 1264
BsiSI	C!CGG	23	601; 657; 667; 827; 1187; 1388; 1394; 1987; 2674; 2751; 2773; 2801; 2932; 3022; 3089; 3270; 3545; 3553; 3645; 4119; 4309; 4335; 4482
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	22	49; 720; 771; 845; 1002; 1080; 1243; 1781; 2107; 2499; 2750; 3294; 3575; 3607; 3739; 3774; 3824; 3856; 4209; 4488; 4654; 4672
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2920; 3452; 3561
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2285; 2357; 2421; 3716
BsmI	GAATGCN!	1	1520
BsmI	G!CATTC	1	1613
BsmAI	GTCTCN!	1	434

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BsmAI	!NNNNNGAGAC	5	1336; 2193; 2611; 3630; 3758
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2920; 3452; 3561
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2285; 2357; 2421; 3716
BsnI	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1415; 1735; 1877; 2532; 2538; 2547; 2590; 2677; 2851; 3242; 3269; 3778; 3835; 3868; 4213; 4647; 4665; 4676
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	1336; 3758
BsoBI	C!YCGRG	4	613; 656; 904; 1264
Bsp13I	T!CCGGA	1	1393
Bsp19I	C!CATGG	3	360; 2498; 3201
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3572
Bsp24I	!NNNNNNCCANNNNNGTC	2	3993; 4171
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4025; 4203
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3540
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 3451
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	25	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1426; 2606; 2610; 2629; 2940; 3018; 3099; 3108; 3186; 3562; 3578; 3937; 3949; 4027; 4035; 4046; 4121
Bsp1286I	GDGCH!C	15	620; 657; 839; 845; 853; 1259; 1265; 1960; 2715; 2808; 2882; 3072; 3134; 3844; 4377
Bsp1407I	T!GTACA	2	1028; 1121
Bsp1720I	GC!TNAGC	1	1297
BspACI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 649; 765; 996; 1320; 1365; 1416; 2084; 2087; 2101; 2191; 2439; 2451; 2460; 2472; 2482; 2493; 2539; 2678; 2741; 3243; 3288; 3354; 3380; 3505; 3508; 3656; 3788; 4095; 4239; 4735
BspACI	G!CGG	29	370; 403; 528; 651; 686; 767; 1244; 1247; 1412; 2029; 2056; 2144; 2254; 2835; 2899; 3000; 3003; 3283; 3338; 3436; 3574; 3721; 3861; 4104; 4349; 4470; 4489; 4616; 4644
BspCNI	CTCAGNNNNNNNN!	2	619; 3894
BspCNI	!NNNNNNNCTGAG	6	1289; 2241; 2543; 3424; 3996; 4405
BspDI	AT!CGAT	1	2609
BspD6I	GACTCNNNN!	6	418; 612; 1428; 1842; 3448; 4325
BspD6I	!NNNNNGAGTC	2	1805; 2237
BspEI	T!CCGGA	1	1393
BspFNI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1418; 1693; 2069; 2089; 2113; 2144; 2835; 3136; 3574; 3658; 3721; 3790; 4063; 4644
BspHI	T!CATGA	2	2195; 3967
BspLI	GGN!NCC	22	467; 647; 655; 662; 690; 879; 903; 1251; 1392; 1924; 1945; 1957; 2148; 2309; 2381; 2770; 2805; 3653; 3732; 3777; 4620; 4659
BspMI	ACCTGCNNNN!	2	3037; 3487
BspMI	!NNNNNNNGCAGGT	1	2656
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	668; 2637; 2948; 3194; 3586; 3945; 4043; 4129
BspPI	!NNNNNGATCC	7	580; 655; 705; 3013; 3557; 3944; 4041
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	1150; 3113; 3323
BspTI	C!TTAAG	1	1651
BspT104I	TT!CGAA	2	627; 3451
BspT107I	G!GYRCC	7	465; 645; 688; 877; 1922; 2768; 2803
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1336; 3758
BsrI	ACTGGN!	3	2713; 2914; 4160
BsrI	C!CAGT	7	295; 810; 882; 1798; 2476; 4272; 4285
BsrBI	CCG!CTC	2	2193; 3382
BsrBI	GAG!CGG	2	2029; 3436
BsrDI	GCAATGNN!	2	744; 3002
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	8	666; 826; 1186; 1387; 1986; 3088; 3269; 3552
BsrGI	T!GTACA	2	1028; 1121

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	ACTGGN!	3	2713; 2914; 4160
BsrSI	C!CAGT	7	295; 810; 882; 1798; 2476; 4272; 4285
BssAI	R!CCGGY	8	666; 826; 1186; 1387; 1986; 3088; 3269; 3552
BssECI	C!CNNGG	22	360; 649; 656; 702; 765; 844; 854; 1001; 1053; 1355; 2303; 2375; 2498; 2533; 2542; 2591; 2932; 3201; 3606; 3734; 3837; 4527
BssHII	G!CGCGC	1	1350
BssKI	!CCNGG	20	88; 281; 655; 656; 844; 854; 1052; 2303; 2358; 2375; 2771; 2931; 3154; 3544; 3733; 3836; 4308; 4526; 4539; 4660
BssMI	!GATC	25	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1426; 2606; 2610; 2629; 2940; 3018; 3099; 3108; 3186; 3562; 3578; 3937; 3949; 4027; 4035; 4046; 4121
BssNI	GR!CGYC	10	122; 175; 258; 444; 689; 878; 1385; 2769; 3471; 3550
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1177; 3487; 4514
BssSI	C!TCGTG	1	3361
BssTII	C!CWWGG	5	360; 2498; 2591; 3201; 3606
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	1150; 2236; 3113; 3323
Bst98I	C!TTAAG	1	1651
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	10	122; 175; 258; 444; 689; 878; 1385; 2769; 3471; 3550
BstAFI	C!TTAAG	1	1651
BstAPI	GCANNNN!NTGC	3	2336; 2408; 3870
BstAUI	T!GTACA	2	1028; 1121
BstBI	TT!CGAA	2	627; 3451
Bst2BI	C!ACGAG	3	1177; 3487; 4514
Bst2BI	C!TCGTG	1	3361
BstBAI	YAC!GTR	8	340; 720; 948; 1077; 1260; 1290; 1885; 3073
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 645; 1347; 1860; 3149; 3265; 3373; 3696; 4187; 4657; 4728
BstC8I	GCN!NGC	31	86; 279; 593; 653; 789; 934; 1352; 1988; 2031; 2045; 2318; 2337; 2390; 2409; 2663; 2849; 3068; 3134; 3140; 3172; 3213; 3217; 3271; 3554; 3741; 3788; 3844; 3866; 4077; 4637; 4674
BstDEI	C!TNAG	8	606; 1297; 2249; 2551; 3432; 3881; 4004; 4413
BstDSI	C!CRYGG	7	360; 649; 702; 765; 1355; 2498; 3201
BstEII	G!GTNACC	2	858; 1005
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	8	750; 810; 1074; 1311; 2629; 3086; 3111; 3565
BstF5I	!CATCC	2	761; 2455
BstFNI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1418; 1693; 2069; 2089; 2113; 2144; 2835; 3136; 3574; 3658; 3721; 3790; 4063; 4644
BstH2I	RGCGC!Y	8	598; 692; 881; 1163; 2036; 2044; 2772; 4447
BstHHI	GCG!C	28	597; 691; 880; 959; 1000; 1162; 1352; 1354; 2035; 2043; 2069; 2091; 2100; 2113; 2144; 2763; 2771; 2835; 2872; 3138; 3398; 3574; 3660; 4063; 4172; 4346; 4446; 4513
BstKTI	GAT!C	25	588; 612; 663; 713; 1137; 1184; 1218; 1317; 1429; 2609; 2613; 2632; 2943; 3021; 3102; 3111; 3189; 3565; 3581; 3940; 3952; 4030; 4038; 4049; 4124
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	5	1336; 2193; 2611; 3630; 3758
BstMBI	!GATC	25	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1426; 2606; 2610; 2629; 2940; 3018; 3099; 3108; 3186; 3562; 3578; 3937; 3949; 4027; 4035; 4046; 4121
BstMCI	CGRY!CG	4	671; 1416; 2678; 4353
BstMWI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 767; 788; 827; 884; 1157; 1196; 1412; 1996; 2026; 2053; 2095; 2336; 2408; 2459; 2538; 2760; 2844; 2867; 3006; 3129; 3212; 3479; 3666; 3870; 4069; 4641
BstNI	CC!WGG	14	90; 283; 846; 856; 1054; 2305; 2360; 2377; 3156; 3735; 3838; 4528; 4541; 4662
BstNSI	RCATG!Y	5	936; 2339; 2411; 3174; 4691
BstOI	CC!WGG	14	90; 283; 846; 856; 1054; 2305; 2360; 2377; 3156; 3735; 3838; 4528; 4541; 4662
BstPI	G!GTNACC	2	858; 1005
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	20	88; 281; 655; 656; 844; 854; 1052; 2303; 2358; 2375; 2771; 2931; 3154; 3544; 3733; 3836; 4308; 4526; 4539; 4660

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSFI	C!TRYAG	4	634; 2104; 4231; 4422
BstSLI	GKGCMI!C	8	657; 839; 845; 1259; 1265; 2715; 2808; 4377
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1418; 1693; 2069; 2089; 2113; 2144; 2835; 3136; 3574; 3658; 3721; 3790; 4063; 4644
Bst2UI	CC!WGG	14	90; 283; 846; 856; 1054; 2305; 2360; 2377; 3156; 3735; 3838; 4528; 4541; 4662
BstV1I	GCAGCNNNNNNNN!	9	695; 1034; 1202; 1557; 2842; 2884; 3405; 3858; 4358
BstV1I	!NNNNNNNNNNNGCTGC	7	916; 2051; 2716; 2900; 2993; 4059; 4265
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	11	585; 609; 660; 710; 2940; 3186; 3578; 3937; 3949; 4035; 4046
BstYI	R!GATCY	11	585; 609; 660; 710; 2940; 3186; 3578; 3937; 3949; 4035; 4046
BstZI	C!GGCCG	2	1413; 2675
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2198; 2988; 4489
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2609
Bsu36I	CC!TNAGG	2	2249; 3881
BsuRI	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1415; 1735; 1877; 2532; 2538; 2547; 2590; 2677; 2851; 3242; 3269; 3778; 3835; 3868; 4213; 4647; 4665; 4676
BsuTUI	AT!CGAT	1	2609
BtgI	C!CRYGG	7	360; 649; 702; 765; 1355; 2498; 3201
BtgZI	GCGATGNNNNNNNNNN!	5	797; 845; 992; 1886; 3221
BtgZI	!NNNNNNNNNNNNNNNNCATCGC	3	334; 3040; 3384
BthCI	GCNG!C	39	686; 689; 770; 932; 1025; 1193; 1247; 1250; 1367; 1415; 1418; 1548; 2067; 2089; 2103; 2541; 2680; 2732; 2743; 2833; 2838; 2875; 2916; 3003; 3006; 3009; 3245; 3341; 3382; 3396; 3510; 3849; 3864; 4075; 4281; 4284; 4349; 4492; 4647
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	1113; 1608
BtsCI	GGATGNN!	8	750; 810; 1074; 1311; 2629; 3086; 3111; 3565
BtsCI	!CATCC	2	761; 2455
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3037; 3487
BveI	!NNNNNNNNGCAGGT	1	2656
Cac8I	GCN!NGC	31	86; 279; 593; 653; 789; 934; 1352; 1988; 2031; 2045; 2318; 2337; 2390; 2409; 2663; 2849; 3068; 3134; 3140; 3172; 3213; 3217; 3271; 3554; 3741; 3788; 3844; 3866; 4077; 4637; 4674
CaiI	CAGNNN!CTG	2	3870; 4278
CciI	T!CATGA	2	2195; 3967
CciNI	GC!GGCCGC	1	1413
CdiI	CATC!G	7	352; 1209; 1242; 3058; 3063; 3261; 3402
CdiI	C!GATG	6	783; 831; 939; 978; 1872; 3207
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	4641
CdpI	!NNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2430; 2472
CelII	GC!TNAGC	1	1297
CfoI	GCG!C	28	597; 691; 880; 959; 1000; 1162; 1352; 1354; 2035; 2043; 2069; 2091; 2100; 2113; 2144; 2763; 2771; 2835; 2872; 3138; 3398; 3574; 3660; 4063; 4172; 4346; 4446; 4513
CfrI	Y!GGCCR	9	747; 1050; 1071; 1211; 1413; 2675; 2849; 3240; 3267
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	8	666; 826; 1186; 1387; 1986; 3088; 3269; 3552
Cfr13I	G!GNCC	11	83; 276; 654; 901; 1249; 1876; 3285; 3730; 3776; 3834; 3867
Cfr42I	CCGC!GG	2	652; 768
ChaI	GATC!	25	589; 613; 664; 714; 1138; 1185; 1219; 1318; 1430; 2610; 2614; 2633; 2944; 3022; 3103; 3112; 3190; 3566; 3582; 3941; 3953; 4031; 4039; 4050; 4125
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	5	1138; 2586; 4026; 4126; 4204
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2253; 2348; 3540; 4090; 4645
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNNNN!	7	98; 291; 2287; 2382; 3574; 4124; 4679
CjeI	!NNNNNNNNCCANNNNNNGT	5	1104; 2552; 3992; 4092; 4170

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	2	4026; 4204
CjePI	!NNNNNNNGANNNNNNNTGG	4	257; 1032; 3540; 4139
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	4	290; 1065; 3573; 4172
CjePI	!NNNNNNCCANNNNNNNTC	2	3993; 4171
Clal	AT!CGAT	1	2609
CpoI	CG!GWCCG	1	3285
CseI	GACGCNNNNN!	4	526; 1393; 3479; 3558
CseI	!NNNNNNNNNGCGTC	3	2102; 3997; 4575
CsiI	A!CCWGGT	1	2358
CspI	CG!GWCCG	1	3285
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 897; 1029; 1122; 1269; 3074
Csp45I	TT!CGAA	2	627; 3451
CspAI	A!CCGGT	1	666
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1364; 2049; 3658
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	18	301; 361; 678; 933; 1278; 2196; 2336; 2408; 2499; 2640; 2985; 3171; 3202; 3228; 3584; 3968; 4688; 4739
CviJI	RG!CY	93	42; 84; 93; 277; 566; 618; 624; 655; 749; 776; 902; 909; 929; 944; 1044; 1052; 1058; 1073; 1141; 1151; 1213; 1250; 1283; 1296; 1334; 1406; 1415; 1438; 1548; 1715; 1735; 1877; 1958; 1972; 1986; 2267; 2308; 2380; 2503; 2532; 2538; 2547; 2555; 2578; 2590; 2596; 2677; 2694; 2702; 2729; 2754; 2838; 2847; 2851; 2875; 2913; 2989; 3006; 3025; 3088; 3132; 3142; 3159; 3242; 3269; 3273; 3310; 3333; 3349; 3529; 3556; 3617; 3739; 3778; 3835; 3842; 3849; 3868; 3879; 4130; 4159; 4202; 4213; 4278; 4357; 4382; 4387; 4433; 4523; 4621; 4647; 4665; 4676
CviKI-1	RG!CY	93	42; 84; 93; 277; 566; 618; 624; 655; 749; 776; 902; 909; 929; 944; 1044; 1052; 1058; 1073; 1141; 1151; 1213; 1250; 1283; 1296; 1334; 1406; 1415; 1438; 1548; 1715; 1735; 1877; 1958; 1972; 1986; 2267; 2308; 2380; 2503; 2532; 2538; 2547; 2555; 2578; 2590; 2596; 2677; 2694; 2702; 2729; 2754; 2838; 2847; 2851; 2875; 2913; 2989; 3006; 3025; 3088; 3132; 3142; 3159; 3242; 3269; 3273; 3310; 3333; 3349; 3529; 3556; 3617; 3739; 3778; 3835; 3842; 3849; 3868; 3879; 4130; 4159; 4202; 4213; 4278; 4357; 4382; 4387; 4433; 4523; 4621; 4647; 4665; 4676
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 897; 1029; 1122; 1269; 3074
DdeI	C!TNAG	8	606; 1297; 2249; 2551; 3432; 3881; 4004; 4413
DinI	GGC!GCC	3	690; 879; 2770
DpnI	GA!TC	25	587; 611; 662; 712; 1136; 1183; 1217; 1316; 1428; 2608; 2612; 2631; 2942; 3020; 3101; 3110; 3188; 3564; 3580; 3939; 3951; 4029; 4037; 4048; 4123
DpnII	!GATC	25	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1426; 2606; 2610; 2629; 2940; 3018; 3099; 3108; 3186; 3562; 3578; 3937; 3949; 4027; 4035; 4046; 4121
DraI	TTT!AAA	3	1471; 3913; 3932
DraII	RG!GNCCY	1	3867
DraIII	CACNN!GTG	1	1885
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 920; 4249
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1840; 2796; 4585
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	1	1400
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1840; 2796; 4585
EaeI	Y!GGCCR	9	747; 1050; 1071; 1211; 1413; 2675; 2849; 3240; 3267
EagI	C!GGCCG	2	1413; 2675
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	1150; 2236; 3113; 3323
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	4	1150; 2236; 3113; 3323
EciI	GGCGANNNNNNNNNNNN!	4	2269; 3298; 4485; 4631

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EciI	!NNNNNNNNNTCCGCC	4	496; 2440; 2461; 2482
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	2	1413; 2675
Eco24I	GRGCY!C	5	620; 657; 1960; 3134; 3844
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1336; 3758
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3285; 3730
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1413; 2675
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	5	931; 1174; 1357; 2915; 3347
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	741; 4145
Eco72I	CAC!GTG	3	1077; 1260; 1290
Eco81I	CC!TNAGG	2	2249; 3881
Eco88I	C!YCGRG	4	613; 656; 904; 1264
Eco91I	G!GTNACC	2	858; 1005
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	5	360; 2498; 2591; 3201; 3606
Eco147I	AGG!CCT	1	2590
EcoHI	!CCSGG	6	655; 656; 2771; 2931; 3544; 4308
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	8	867; 931; 1114; 1174; 1357; 2915; 3347; 3609
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	741; 3552; 4145
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	2	858; 1005
Eco0109I	RG!GNCCY	1	3867
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	14	88; 281; 844; 854; 1052; 2303; 2358; 2375; 3154; 3733; 3836; 4526; 4539; 4660
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	360; 2498; 2591; 3201; 3606
EcoT22I	ATGCA!T	3	2341; 2413; 4744
EcoT38I	GRGCY!C	5	620; 657; 1960; 3134; 3844
Eco53kl	GAG!CTC	1	618
EgeI	GGC!GCC	3	690; 879; 2770
EheI	GGC!GCC	3	690; 879; 2770
ErhI	C!CWWGG	5	360; 2498; 2591; 3201; 3606
EsaBC3I	TC!GA	17	615; 628; 641; 972; 1014; 1383; 1919; 2610; 2883; 3039; 3063; 3099; 3261; 3452; 3497; 3752; 4590
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	18	304; 364; 681; 936; 1281; 2199; 2339; 2411; 2502; 2643; 2988; 3174; 3205; 3231; 3587; 3971; 4691; 4742
Fail	YA!TR	55	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 934; 1279; 1330; 1431; 1441; 1507; 1552; 1757; 2185; 2197; 2328; 2337; 2400; 2409; 2433; 2500; 2524; 2641; 2705; 2986; 3011; 3172; 3203; 3229; 3301; 3517; 3585; 3663; 3715; 3876; 3893; 3895; 3897; 3969; 4247; 4436; 4552; 4625; 4689; 4740
FalI	AAGNNNNNCTNNNNNNNNNNNN!	2	1179; 3109
FalI	!NNNNNNNNAAGNNNNNCTT	2	1147; 3077
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2920; 3452; 3561
FaqI	!NNNNNNNNNNNNNGTCCC	4	2285; 2357; 2421; 3716
FatI	!CATG	18	300; 360; 677; 932; 1277; 2195; 2335; 2407; 2498; 2639; 2984; 3170; 3201; 3227; 3583; 3967; 4687; 4738
FauI	CCC GCNNNN!	9	93; 119; 286; 1003; 2091; 2446; 2467; 3663; 3795
FauI	!NNNNNNNGCGGG	6	644; 2022; 2892; 3429; 3567; 3714
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	640
FmuI	GGNC!C	11	86; 279; 657; 904; 1252; 1879; 3288; 3733; 3779; 3837; 3870
Fnu4HI	GC!NGC	39	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1413; 1416; 1546; 2065; 2087; 2101; 2539; 2678; 2730; 2741; 2831; 2836; 2873; 2914; 3001; 3004; 3007; 3243; 3339; 3380; 3394; 3508; 3847; 3862; 4073; 4279; 4282; 4347; 4490; 4645
FokI	GGATGNNNNNNNNNN!	8	757; 817; 1081; 1318; 2636; 3093; 3118; 3572

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FokI	!NNNNNNNNNNNNNNCATCC	2	748; 2442
FriOI	GRGCY!C	5	620; 657; 1960; 3134; 3844
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2871
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1424; 1618; 2036; 2592; 3607; 3941; 4194
FspEI	CCNNNNNNNNNNNN!	161	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 705; 727; 763; 778; 801; 822; 837; 851; 867; 885; 906; 950; 975; 1008; 1023; 1066; 1087; 1122; 1155; 1176; 1200; 1227; 1248; 1264; 1278; 1300; 1326; 1348; 1368; 1386; 1401; 1429; 1452; 1491; 1505; 1646; 1741; 1765; 1788; 1811; 1829; 1851; 1872; 1891; 1910; 1939; 1960; 1974; 2000; 2088; 2114; 2163; 2204; 2222; 2261; 2277; 2315; 2372; 2387; 2444; 2464; 2478; 2495; 2509; 2546; 2561; 2604; 2687; 2754; 2785; 2805; 2820; 2865; 2879; 2945; 2959; 2978; 2994; 3035; 3055; 3102; 3152; 3168; 3188; 3213; 3233; 3256; 3283; 3301; 3327; 3367; 3393; 3417; 3473; 3487; 3515; 3558; 3579; 3614; 3658; 3746; 3770; 3792; 3812; 3828; 3849; 3863; 3882; 3966; 3986; 4014; 4029; 4063; 4105; 4132; 4147; 4192; 4216; 4230; 4252; 4278; 4298; 4322; 4348; 4396; 4415; 4434; 4460; 4495; 4540; 4570; 4584; 4635; 4649; 4674; 4690; 4711; 4740
FspEI	!NNNNNNNNNNNNNNNGG	132	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 671; 689; 709; 727; 752; 778; 812; 831; 860; 884; 926; 958; 988; 1034; 1055; 1078; 1113; 1133; 1172; 1195; 1226; 1288; 1324; 1342; 1373; 1397; 1440; 1540; 1609; 1639; 1717; 1766; 1788; 1816; 1852; 1897; 1926; 1962; 1981; 2009; 2029; 2092; 2115; 2223; 2255; 2273; 2302; 2345; 2374; 2485; 2514; 2557; 2578; 2606; 2639; 2659; 2684; 2711; 2736; 2758; 2786; 2812; 2833; 2884; 2905; 2923; 2971; 3007; 3063; 3088; 3112; 3141; 3164; 3188; 3214; 3236; 3255; 3280; 3320; 3356; 3421; 3506; 3530; 3559; 3593; 3614; 3634; 3679; 3706; 3725; 3758; 3810; 3841; 3868; 3920; 4018; 4089; 4134; 4195; 4260; 4294; 4320; 4338; 4374; 4444; 4467; 4489; 4513; 4546; 4594; 4629; 4647; 4704
Fsp4HI	GC!NGC	39	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1413; 1416; 1546; 2065; 2087; 2101; 2539; 2678; 2730; 2741; 2831; 2836; 2873; 2914; 3001; 3004; 3007; 3243; 3339; 3380; 3394; 3508; 3847; 3862; 4073; 4279; 4282; 4347; 4490; 4645
GdiII	C!GGCCR	2	1413; 2675
GdiII	Y!GGCCG	5	1211; 1413; 2675; 3240; 3267
GlaI	GC!GC	28	596; 690; 879; 958; 999; 1161; 1351; 1353; 2034; 2042; 2068; 2090; 2099; 2112; 2143; 2762; 2770; 2834; 2871; 3137; 3397; 3573; 3659; 4062; 4171; 4345; 4445; 4512
GluI	GC!NGC	39	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1413; 1416; 1546; 2065; 2087; 2101; 2539; 2678; 2730; 2741; 2831; 2836; 2873; 2914; 3001; 3004; 3007; 3243; 3339; 3380; 3394; 3508; 3847; 3862; 4073; 4279; 4282; 4347; 4490; 4645
GsaI	CCCAG!C	3	2316; 2388; 4387
GsaI	GCTGG!G	2	1084; 3277
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	867; 1114; 3609
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3552
HaeI	WGG!CCW	9	749; 1052; 1073; 1141; 2590; 2851; 4213; 4665; 4676
HaeII	RGCGC!Y	8	598; 692; 881; 1163; 2036; 2044; 2772; 4447
HaeIII	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1415; 1735; 1877; 2532; 2538; 2547; 2590; 2677; 2851; 3242; 3269; 3778; 3835; 3868; 4213; 4647; 4665; 4676
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1444; 2965
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1410; 2931
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1443; 2964
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1412; 2933
HapII	C!CGG	23	601; 657; 667; 827; 1187; 1388; 1394; 1987; 2674; 2751; 2773; 2801; 2932; 3022; 3089; 3270; 3545; 3553; 3645; 4119; 4309; 4335; 4482
HgaI	GACGCNNNNN!	4	526; 1393; 3479; 3558
HgaI	!NNNNNNNNNNNGCGTC	3	2102; 3997; 4575
HhaI	GCG!C	28	597; 691; 880; 959; 1000; 1162; 1352; 1354; 2035; 2043; 2069; 2091; 2100; 2113; 2144; 2763; 2771; 2835; 2872; 3138; 3398; 3574; 3660; 4063; 4172; 4346; 4446; 4513
HinII	GR!CGYC	10	122; 175; 258; 444; 689; 878; 1385; 2769; 3471; 3550

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hin1II	CATG!	18	304; 364; 681; 936; 1281; 2199; 2339; 2411; 2502; 2643; 2988; 3174; 3205; 3231; 3587; 3971; 4691; 4742
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1443; 2964
Hin4I	!NNNNNNNGABNNNNNNRTC	3	1411; 2932; 2962
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1443; 2964; 2994
Hin4I	!NNNNNNNGAYNNNNNVTC	2	1411; 2932
Hin6I	G!CGC	28	595; 689; 878; 957; 998; 1160; 1350; 1352; 2033; 2041; 2067; 2089; 2098; 2111; 2142; 2761; 2769; 2833; 2870; 3136; 3396; 3572; 3658; 4061; 4170; 4344; 4444; 4511
HinP1I	G!CGC	28	595; 689; 878; 957; 998; 1160; 1350; 1352; 2033; 2041; 2067; 2089; 2098; 2111; 2142; 2761; 2769; 2833; 2870; 3136; 3396; 3572; 3658; 4061; 4170; 4344; 4444; 4511
HincII	GTY!RAC	2	641; 1532
HindII	GTY!RAC	2	641; 1532
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	14	410; 604; 1089; 1420; 1812; 1834; 2244; 3254; 3388; 3440; 3498; 3535; 4317; 4713
HpaI	GTT!AAC	1	1532
HpaII	C!CGG	23	601; 657; 667; 827; 1187; 1388; 1394; 1987; 2674; 2751; 2773; 2801; 2932; 3022; 3089; 3270; 3545; 3553; 3645; 4119; 4309; 4335; 4482
HphI	GGTGANNNNNNNN!	5	376; 870; 1017; 3840; 3956
HphI	!NNNNNNNTCACC	6	957; 1098; 1176; 1309; 1886; 2947
Hpy8I	GTN!NAC	11	201; 539; 577; 641; 1029; 1257; 1532; 1816; 1833; 1888; 4375
Hpy99I	CGWCG!	9	645; 1387; 2859; 2887; 3181; 3196; 3473; 3858; 4591
Hpy166II	GTN!NAC	11	201; 539; 577; 641; 1029; 1257; 1532; 1816; 1833; 1888; 4375
Hpy188I	TCN!GA	12	585; 609; 1943; 2552; 2736; 3080; 3433; 3534; 4013; 4147; 4500; 4578
Hpy188III	TC!NNGA	26	613; 990; 1014; 1062; 1093; 1394; 1424; 2196; 2248; 2561; 2614; 2787; 3103; 3112; 3195; 3251; 3295; 3385; 3418; 3487; 3968; 4042; 4125; 4223; 4321; 4455
HpyAV	CCTTCNNNNNN!	7	765; 978; 1020; 1173; 3414; 3521; 4200
HpyAV	!NNNNNGAAGG	10	906; 1059; 1332; 2002; 2897; 3626; 3642; 3825; 4142; 4452
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 645; 1347; 1860; 3149; 3265; 3373; 3696; 4187; 4657; 4728
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 719; 947; 1076; 1259; 1289; 1829; 1841; 1884; 1994; 2885; 3072; 3853; 3986
HpyCH4V	TG!CA	21	636; 821; 932; 951; 1257; 1518; 1545; 1613; 2330; 2339; 2402; 2411; 2526; 2602; 2661; 2820; 2995; 3009; 4079; 4375; 4742
HpyF3I	C!TNAG	8	606; 1297; 2249; 2551; 3432; 3881; 4004; 4413
HpyF10VI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 767; 788; 827; 884; 1157; 1196; 1412; 1996; 2026; 2053; 2095; 2336; 2408; 2459; 2538; 2760; 2844; 2867; 3006; 3129; 3212; 3479; 3666; 3870; 4069; 4641
Hsp92I	GR!CGYC	10	122; 175; 258; 444; 689; 878; 1385; 2769; 3471; 3550
Hsp92II	CATG!	18	304; 364; 681; 936; 1281; 2199; 2339; 2411; 2502; 2643; 2988; 3174; 3205; 3231; 3587; 3971; 4691; 4742
HspAI	G!CGC	28	595; 689; 878; 957; 998; 1160; 1350; 1352; 2033; 2041; 2067; 2089; 2098; 2111; 2142; 2761; 2769; 2833; 2870; 3136; 3396; 3572; 3658; 4061; 4170; 4344; 4444; 4511
KasI	G!GCGCC	3	688; 877; 2768
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	649
Kpn2I	T!CCGGA	1	1393
KspI	CCGC!GG	2	652; 768
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1532
Kzo9I	!GATC	25	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1426; 2606; 2610; 2629; 2940; 3018; 3099; 3108; 3186; 3562; 3578; 3937; 3949; 4027; 4035; 4046; 4121
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	1150; 3113; 3323
LpnI	RGCI GCY	8	596; 690; 879; 1161; 2034; 2042; 2770; 4445
LpnPI	CCDGNNNNNNNNNN!	62	102; 295; 614; 670; 706; 801; 823; 840; 858; 880; 895; 1066; 1132; 1165; 1200; 1237; 1348; 1401; 1506; 1811; 2000; 2223; 2261; 2277; 2317; 2372; 2389; 2489; 2574; 2687; 2764; 2786; 2809; 2945; 2959; 2978; 3035; 3102; 3152; 3168; 3225; 3283; 3492; 3558; 3582; 3658; 3747; 3850; 3883; 4114; 4132; 4278; 4298; 4322; 4348; 4397; 4495; 4540; 4570; 4649; 4674; 4711

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LpnPI	!NNNNNNNNNNNNNNCHGG	54	75; 268; 552; 586; 642; 812; 831; 937; 1039; 1066; 1113; 1172; 1373; 1852; 1972; 2029; 2092; 2290; 2302; 2362; 2374; 2606; 2651; 2694; 2736; 2758; 2786; 2833; 2895; 2917; 3007; 3074; 3097; 3141; 3236; 3255; 3280; 3429; 3530; 3573; 3630; 3720; 3823; 3850; 3868; 4104; 4141; 4294; 4320; 4460; 4478; 4513; 4594; 4647
Lsp1109I	GCAGCNNNNNNNN!	9	695; 1034; 1202; 1557; 2842; 2884; 3405; 3858; 4358
Lsp1109I	!NNNNNNNNNNNNNGCTGC	7	916; 2051; 2716; 2900; 2993; 4059; 4265
LweI	GCATCNNNNN!	7	770; 1585; 2348; 2420; 3068; 3132; 3407
LweI	!NNNNNNNNNGATGC	7	357; 774; 795; 2727; 2982; 3198; 4590
MabI	A!CCWGGT	1	2358
MaeI	C!TAG	8	592; 1424; 1618; 2036; 2592; 3607; 3941; 4194
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 719; 947; 1076; 1259; 1289; 1829; 1841; 1884; 1994; 2885; 3072; 3853; 3986
MaeIII	!GTNAC	15	61; 148; 497; 858; 1005; 1308; 1557; 2058; 2070; 2889; 3195; 3885; 4151; 4267; 4330
MalI	GA!TC	25	587; 611; 662; 712; 1136; 1183; 1217; 1316; 1428; 2608; 2612; 2631; 2942; 3020; 3101; 3110; 3188; 3564; 3580; 3939; 3951; 4029; 4037; 4048; 4123
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2193; 3382
MbiI	GAG!CGG	2	2029; 3436
MboI	!GATC	25	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1426; 2606; 2610; 2629; 2940; 3018; 3099; 3108; 3186; 3562; 3578; 3937; 3949; 4027; 4035; 4046; 4121
MboII	GAAGANNNNNNNN!	6	1167; 2025; 2253; 3130; 3340; 3959
MboII	!NNNNNNNTCTTC	4	3420; 3587; 3787; 4030
McaTI	GCGC!GC	1	1353
MfeI	C!AATTG	1	1519
MfiI	R!GATCY	11	585; 609; 660; 710; 2940; 3186; 3578; 3937; 3949; 4035; 4046
MhiI	GDGCH!C	15	620; 657; 839; 845; 853; 1259; 1265; 1960; 2715; 2808; 2882; 3072; 3134; 3844; 4377
MisI	TGG!CCA	4	749; 1052; 1073; 2851
MluI	A!CGCGT	0	
MluNI	TGG!CCA	4	749; 1052; 1073; 2851
MlyI	GAGTCNNNNN!	2	1821; 2253
MlyI	!NNNNNGACTC	6	404; 598; 1414; 1828; 3434; 4311
Mly113I	GG!CGCC	3	689; 878; 2769
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1862
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4294; 4478
MnII	CCTCNNNNNNN!	7	1488; 2552; 3370; 3576; 3890; 4260; 4584
MnII	!NNNNNGAGG	16	541; 726; 966; 996; 1448; 1913; 2244; 2522; 2565; 2580; 2620; 2684; 2820; 3177; 3607; 4510
Mph1103I	ATGCA!T	3	2341; 2413; 4744
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1393
MroNI	G!CCGGC	3	1986; 3269; 3552
MroXI	GAANN!NNTTC	1	916
MscI	TGG!CCA	4	749; 1052; 1073; 2851
MseI	T!TAA	15	7; 1470; 1531; 1652; 1673; 1684; 1696; 1707; 1724; 1822; 2093; 3912; 3926; 3931; 3983
MslI	CAYNN!NNRTG	4	365; 856; 1225; 3206
MspI	C!CGG	23	601; 657; 667; 827; 1187; 1388; 1394; 1987; 2674; 2751; 2773; 2801; 2932; 3022; 3089; 3270; 3545; 3553; 3645; 4119; 4309; 4335; 4482
Msp20I	TGG!CCA	4	749; 1052; 1073; 2851
MspA1I	CMG!CKG	7	651; 686; 767; 2267; 2875; 4104; 4349
MspCI	C!TTAAG	1	1651

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	242	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 613; 627; 640; 662; 679; 705; 720; 763; 778; 800; 821; 839; 852; 867; 880; 893; 906; 922; 936; 949; 964; 984; 1002; 1026; 1048; 1065; 1087; 1105; 1124; 1140; 1154; 1179; 1199; 1221; 1235; 1249; 1264; 1277; 1290; 1309; 1325; 1347; 1363; 1378; 1400; 1415; 1429; 1442; 1457; 1476; 1493; 1506; 1547; 1561; 1574; 1592; 1630; 1645; 1663; 1704; 1728; 1748; 1766; 1787; 1810; 1842; 1857; 1879; 1897; 1910; 1931; 1948; 1961; 1974; 1990; 2003; 2033; 2048; 2073; 2091; 2104; 2119; 2143; 2157; 2181; 2206; 2222; 2260; 2276; 2315; 2329; 2343; 2371; 2387; 2401; 2415; 2444; 2457; 2478; 2487; 2509; 2539; 2555; 2573; 2603; 2626; 2650; 2674; 2693; 2721; 2747; 2763; 2776; 2799; 2813; 2833; 2846; 2860; 2879; 2893; 2906; 2922; 2937; 2950; 2966; 2981; 2997; 3022; 3041; 3057; 3070; 3083; 3101; 3115; 3129; 3145; 3167; 3183; 3202; 3224; 3240; 3263; 3282; 3296; 3312; 3326; 3346; 3362; 3375; 3397; 3430; 3444; 3464; 3477; 3491; 3545; 3558; 3581; 3594; 3613; 3630; 3657; 3693; 3726; 3745; 3770; 3791; 3818; 3831; 3848; 3862; 3877; 3893; 3953; 3978; 3994; 4016; 4029; 4043; 4074; 4088; 4113; 4131; 4146; 4159; 4178; 4191; 4206; 4235; 4254; 4272; 4297; 4312; 4331; 4347; 4366; 4384; 4400; 4414; 4433; 4460; 4483; 4505; 4524; 4539; 4552; 4569; 4589; 4616; 4629; 4648; 4673; 4696; 4710; 4723; 4740
MspJI	!NNNNNNNNNNNNYNG	202	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 593; 612; 636; 653; 679; 704; 727; 744; 764; 784; 804; 824; 841; 860; 880; 910; 932; 956; 976; 998; 1022; 1039; 1061; 1078; 1105; 1123; 1158; 1180; 1210; 1227; 1244; 1264; 1284; 1307; 1333; 1354; 1374; 1403; 1421; 1450; 1479; 1521; 1604; 1639; 1666; 1689; 1718; 1762; 1784; 1816; 1852; 1869; 1890; 1927; 1947; 1964; 1981; 2016; 2034; 2052; 2069; 2093; 2115; 2142; 2170; 2196; 2234; 2255; 2272; 2290; 2313; 2334; 2362; 2385; 2406; 2424; 2445; 2462; 2485; 2509; 2529; 2547; 2569; 2600; 2622; 2648; 2667; 2684; 2712; 2731; 2750; 2768; 2786; 2807; 2829; 2853; 2886; 2906; 2924; 2945; 2971; 2998; 3015; 3032; 3049; 3075; 3097; 3119; 3137; 3157; 3176; 3198; 3236; 3256; 3280; 3300; 3320; 3347; 3371; 3404; 3423; 3451; 3473; 3502; 3530; 3555; 3574; 3593; 3614; 3631; 3648; 3679; 3706; 3726; 3749; 3769; 3806; 3823; 3842; 3868; 3888; 3927; 3954; 3973; 3991; 4028; 4046; 4087; 4105; 4131; 4148; 4180; 4209; 4237; 4258; 4281; 4300; 4321; 4339; 4356; 4374; 4400; 4421; 4441; 4461; 4479; 4500; 4526; 4543; 4562; 4581; 4610; 4629; 4647; 4666; 4684; 4702; 4725
MspR9I	CC!NGG	20	90; 283; 657; 658; 846; 856; 1054; 2305; 2360; 2377; 2773; 2933; 3156; 3546; 3735; 3838; 4310; 4528; 4541; 4662
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1519
MvaI	CC!WGG	14	90; 283; 846; 856; 1054; 2305; 2360; 2377; 3156; 3735; 3838; 4528; 4541; 4662
Mva1269I	GAATGCN!	1	1520
Mva1269I	G!CATTC	1	1613
MvnI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1418; 1693; 2069; 2089; 2113; 2144; 2835; 3136; 3574; 3658; 3721; 3790; 4063; 4644
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 767; 788; 827; 884; 1157; 1196; 1412; 1996; 2026; 2053; 2095; 2336; 2408; 2459; 2538; 2760; 2844; 2867; 3006; 3129; 3212; 3479; 3666; 3870; 4069; 4641
NaeI	GCC!GGC	3	1988; 3271; 3554
NarI	GG!CGCC	3	689; 878; 2769
NciI	CC!SGG	6	657; 658; 2773; 2933; 3546; 4310
NcoI	C!CATGG	3	360; 2498; 3201
NdeI	CA!TATG	1	234
NdeII	!GATC	25	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1426; 2606; 2610; 2629; 2940; 3018; 3099; 3108; 3186; 3562; 3578; 3937; 3949; 4027; 4035; 4046; 4121
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	2	280; 884
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	2	244; 848
NgoMIV	G!CCGGC	3	1986; 3269; 3552

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NheI	G!CTAGC	1	591
NlaIII	CATG!	18	304; 364; 681; 936; 1281; 2199; 2339; 2411; 2502; 2643; 2988; 3174; 3205; 3231; 3587; 3971; 4691; 4742
NlaIV	GGN!NCC	22	467; 647; 655; 662; 690; 879; 903; 1251; 1392; 1924; 1945; 1957; 2148; 2309; 2381; 2770; 2805; 3653; 3732; 3777; 4620; 4659
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	987; 1601; 1916; 3508
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 4580
Nli3877I	CYCGR!G	4	617; 660; 908; 1268
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1026; 2558; 2994
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2523
NmeDI	RCCGGYNNNNNNNN!	8	678; 838; 1198; 1399; 1998; 3100; 3281; 3564
NmeDI	!NNNNNNNNNNNNRCCGGY	8	653; 813; 1173; 1374; 1973; 3075; 3256; 3539
NmuCI	!GTSAC	6	858; 1005; 1308; 2058; 2889; 3195
NotI	GC!GGCCGC	1	1413
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2871
NsiI	ATGCA!T	3	2341; 2413; 4744
NspI	RCATG!Y	5	936; 2339; 2411; 3174; 4691
NspV	TT!CGAA	2	627; 3451
OliI	CACNN!NNGTG	1	856
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 648; 899; 1031; 1124; 1271; 3076
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	936; 2339; 2411; 3174
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	2195; 3967
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3734; 3837
PauI	G!CGCGC	1	1350
PceI	AGG!CCT	1	2590
PciI	A!CATGT	1	4687
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	3	1150; 3113; 3323
PcsI	WCGNNNN!NNNCGW	6	3063; 3140; 3383; 3457; 3850; 4368
PctI	GAATGCN!	1	1520
PctI	G!CATTC	1	1613
PdiI	GCC!GGC	3	1988; 3271; 3554
PdmI	GAANN!NNTTC	1	916
PfeI	G!AWTC	6	1089; 3254; 3388; 3498; 3535; 4713
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2887
PfIMI	CCANNNN!NTGG	1	1080
PfoI	T!CCNGGA	1	3544
PhoI	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1415; 1735; 1877; 2532; 2538; 2547; 2590; 2677; 2851; 3242; 3269; 3778; 3835; 3868; 4213; 4647; 4665; 4676
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3150
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2715; 2970
PleI	GAGTCNNNN!	2	1820; 2252
PleI	!NNNNNGACTC	6	404; 598; 1414; 1828; 3434; 4311
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	3	1077; 1260; 1290
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	3	1077; 1260; 1290
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1851
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	3981
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4013
PpiI	!NNNNNNNGAACNNNNNCTC	1	1819
Ppsi	GAGTCNNNN!	2	1820; 2252
Ppsi	!NNNNNGACTC	6	404; 598; 1414; 1828; 3434; 4311
Ppu10I	A!TGCAT	3	2337; 2409; 4740
Ppu21I	YAC!GTR	8	340; 720; 948; 1077; 1260; 1290; 1885; 3073
PpuMI	RG!GWCCY	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PscI	A!CATGT	1	4687
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1552; 1757
Psp03I	GGWC!C	2	3288; 3733
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	14	88; 281; 844; 854; 1052; 2303; 2358; 2375; 3154; 3733; 3836; 4526; 4539; 4660
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	3	1077; 1260; 1290
PspEI	G!GTNACC	2	858; 1005
PspGI	!CCWGG	14	88; 281; 844; 854; 1052; 2303; 2358; 2375; 3154; 3733; 3836; 4526; 4539; 4660
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 647; 655; 662; 690; 879; 903; 1251; 1392; 1924; 1945; 1957; 2148; 2309; 2381; 2770; 2805; 3653; 3732; 3777; 4620; 4659
PspOMI	G!GGCCC	1	653
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	4	125; 905; 2499; 3498
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2901
PspPI	G!GNCC	11	83; 276; 654; 901; 1249; 1876; 3285; 3730; 3776; 3834; 3867
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	2322; 2394; 3900
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	3	1114; 2235; 3430
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3870
PstI	CTGCA!G	1	638
PstNI	CAGNN!CTG	2	3870; 4278
PsuI	R!GATCY	11	585; 609; 660; 710; 2940; 3186; 3578; 3937; 3949; 4035; 4046
Psyl	GACN!NNGTC	1	2887
PteI	G!CGCGC	1	1350
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2267; 2875
RcaI	T!CATGA	2	2195; 3967
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3284
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	1498
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 647; 898; 1030; 1123; 1270; 3075
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 897; 1029; 1122; 1269; 3074
RseI	CAYNN!NNRTG	4	365; 856; 1225; 3206
RsrII	CG!GWCCG	1	3285
Rsr2I	CG!GWCCG	1	3285
SacI	GAGCT!C	1	620
SacII	CCGC!GG	2	652; 768
SaI	G!TCGAC	1	639
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	1150; 3113; 3323
SaqAI	T!TAA	15	7; 1470; 1531; 1652; 1673; 1684; 1696; 1707; 1724; 1822; 2093; 3912; 3926; 3931; 3983

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SatI	GC!NGC	39	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1413; 1416; 1546; 2065; 2087; 2101; 2539; 2678; 2730; 2741; 2831; 2836; 2873; 2914; 3001; 3004; 3007; 3243; 3339; 3380; 3394; 3508; 3847; 3862; 4073; 4279; 4282; 4347; 4490; 4645
Sau96I	G!GNCC	11	83; 276; 654; 901; 1249; 1876; 3285; 3730; 3776; 3834; 3867
Sau3AI	!GATC	25	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1426; 2606; 2610; 2629; 2940; 3018; 3099; 3108; 3186; 3562; 3578; 3937; 3949; 4027; 4035; 4046; 4121
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1821; 2253
SchI	!NNNNNGACTC	6	404; 598; 1414; 1828; 3434; 4311
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	20	90; 283; 657; 658; 846; 856; 1054; 2305; 2360; 2377; 2773; 2933; 3156; 3546; 3735; 3838; 4310; 4528; 4541; 4662
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	978; 2347; 2419; 2588; 4530
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2924; 3409
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	15	620; 657; 839; 845; 853; 1259; 1265; 1960; 2715; 2808; 2882; 3072; 3134; 3844; 4377
SelI	!CGCG	21	58; 649; 765; 996; 1035; 1320; 1350; 1416; 1691; 2067; 2087; 2111; 2142; 2833; 3134; 3572; 3656; 3719; 3788; 4061; 4642
SetI	ASST!	69	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 722; 757; 803; 874; 911; 931; 950; 970; 1007; 1012; 1046; 1079; 1262; 1285; 1292; 1298; 1375; 1408; 1459; 1480; 1489; 1501; 1550; 1717; 1832; 1844; 1887; 1924; 1974; 1997; 2121; 2269; 2364; 2557; 2670; 2798; 2877; 2888; 2960; 3031; 3075; 3335; 3481; 3525; 3856; 3887; 3946; 3989; 4132; 4153; 4252; 4389; 4404; 4423; 4435; 4479; 4525; 4576
SexAI	A!CCWGGT	1	2358
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	770; 1585; 2348; 2420; 3068; 3132; 3407
SfaNI	!NNNNNNNNNGATGC	7	357; 774; 795; 2727; 2982; 3198; 4590
Sfcl	C!TRYAG	4	634; 2104; 4231; 4422
SfiI	GGCCNNNN!GGCC	1	2544
SfoI	GGC!GCC	3	690; 879; 2770
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	2	652; 768
SfuI	TT!CGAA	2	627; 3451
SgeI	CNNGNNNNNNNN!	192	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 705; 720; 778; 800; 822; 839; 852; 867; 894; 916; 936; 949; 964; 984; 1002; 1026; 1048; 1065; 1087; 1105; 1131; 1150; 1164; 1189; 1206; 1221; 1236; 1264; 1278; 1300; 1314; 1333; 1347; 1363; 1380; 1400; 1415; 1429; 1476; 1505; 1547; 1630; 1704; 1788; 1810; 1842; 1879; 1897; 1916; 1931; 1973; 1990; 2007; 2042; 2056; 2073; 2095; 2119; 2143; 2208; 2222; 2260; 2276; 2316; 2329; 2348; 2371; 2388; 2401; 2420; 2450; 2471; 2488; 2511; 2546; 2573; 2604; 2626; 2652; 2674; 2693; 2721; 2757; 2776; 2799; 2813; 2833; 2846; 2860; 2879; 2893; 2912; 2944; 2958; 2971; 2997; 3028; 3041; 3058; 3075; 3089; 3106; 3124; 3139; 3167; 3183; 3202; 3224; 3240; 3263; 3282; 3307; 3326; 3346; 3373; 3397; 3430; 3449; 3477; 3491; 3557; 3581; 3596; 3619; 3640; 3657; 3705; 3732; 3746; 3775; 3799; 3832; 3849; 3869; 3882; 3895; 3953; 3980; 3999; 4029; 4054; 4074; 4088; 4113; 4131; 4168; 4206; 4235; 4263; 4277; 4297; 4312; 4333; 4347; 4366; 4384; 4400; 4440; 4460; 4487; 4505; 4526; 4539; 4552; 4569; 4593; 4616; 4648; 4673; 4700; 4722

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	167	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 679; 706; 752; 774; 796; 813; 831; 853; 880; 910; 934; 958; 976; 1000; 1022; 1039; 1061; 1079; 1105; 1124; 1163; 1180; 1210; 1238; 1264; 1288; 1307; 1333; 1354; 1374; 1403; 1450; 1479; 1521; 1604; 1678; 1762; 1784; 1816; 1853; 1871; 1890; 1947; 1964; 1981; 2016; 2034; 2054; 2074; 2093; 2117; 2182; 2234; 2290; 2322; 2345; 2362; 2394; 2424; 2445; 2462; 2485; 2520; 2547; 2578; 2600; 2626; 2648; 2667; 2695; 2731; 2750; 2773; 2794; 2812; 2829; 2853; 2886; 2918; 2945; 2971; 3002; 3032; 3049; 3075; 3098; 3119; 3141; 3161; 3181; 3198; 3237; 3256; 3281; 3300; 3320; 3347; 3371; 3404; 3423; 3451; 3473; 3531; 3555; 3574; 3593; 3614; 3631; 3679; 3706; 3726; 3749; 3773; 3806; 3823; 3843; 3869; 3927; 3954; 3973; 4003; 4028; 4048; 4087; 4105; 4142; 4180; 4209; 4237; 4258; 4286; 4307; 4340; 4358; 4414; 4434; 4461; 4479; 4500; 4526; 4543; 4567; 4590; 4622; 4647; 4674; 4696; 4725
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	1	826
SgrBI	CCGC!GG	2	652; 768
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1916; 3703; 4496
SimI	!GACCC	5	106; 992; 3197; 3765; 4013
SinI	G!GWCC	2	3285; 3730
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	365; 856; 1225; 3206
SmlI	C!TYRAG	7	613; 619; 1651; 3160; 4042; 4319; 4581
SmoI	C!TYRAG	7	613; 619; 1651; 3160; 4042; 4319; 4581
SmuI	CCCGCNNNN!	9	93; 119; 286; 1003; 2091; 2446; 2467; 3663; 3795
SmuI	!NNNNNNGCGGG	6	644; 2022; 2892; 3429; 3567; 3714
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	936; 2339; 2411; 3174
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	13	18; 629; 984; 1101; 1519; 1583; 1661; 1687; 1698; 2345; 2417; 2509; 3927
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2590
SsiI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 649; 765; 996; 1320; 1365; 1416; 2084; 2087; 2101; 2191; 2439; 2451; 2460; 2472; 2482; 2493; 2539; 2678; 2741; 3243; 3288; 3354; 3380; 3505; 3508; 3656; 3788; 4095; 4239; 4735
SsiI	G!CGG	29	370; 403; 528; 651; 686; 767; 1244; 1247; 1412; 2029; 2056; 2144; 2254; 2835; 2899; 3000; 3003; 3283; 3338; 3436; 3574; 3721; 3861; 4104; 4349; 4470; 4489; 4616; 4644
SspI	AAT!ATT	2	1677; 2230
SspDI	G!GCGCC	3	688; 877; 2768
SspD5I	GGTGANNNNNNNN!	5	376; 870; 1017; 3840; 3956
SspD5I	!NNNNNNNNNTCACC	6	956; 1097; 1175; 1308; 1885; 2946
SstI	GAGCT!C	1	620
SstII	CCGC!GG	2	652; 768
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 663; 845; 911; 944; 1002; 1259; 1271; 1968; 2090; 2445; 2466; 2779; 3182; 3321; 3392; 3662; 3794; 4024; 4462
Sth132I	!NNNNNNNNNCGGG	19	15; 407; 470; 643; 1969; 2021; 2122; 2849; 2891; 2924; 3428; 3537; 3566; 3713; 3817; 3848; 4301; 4345; 4553
Sth302II	CC!GG	23	602; 658; 668; 828; 1188; 1389; 1395; 1988; 2675; 2752; 2774; 2802; 2933; 3023; 3090; 3271; 3546; 3554; 3646; 4120; 4310; 4336; 4483
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	8	758; 818; 1082; 1319; 2637; 3094; 3119; 3573
StsI	!NNNNNNNNNNNNNNCATCC	2	747; 2441

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StuI	AGG CCT	1	2590
StyI	C CWGGG	5	360; 2498; 2591; 3201; 3606
StyD4I	!CCNGG	20	88; 281; 655; 656; 844; 854; 1052; 2303; 2358; 2375; 2771; 2931; 3154; 3544; 3733; 3836; 4308; 4526; 4539; 4660
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 645; 1347; 1860; 3149; 3265; 3373; 3696; 4187; 4657; 4728
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 722; 950; 1079; 1262; 1292; 1832; 1844; 1887; 1997; 2888; 3075; 3856; 3989
TaqI	T!CGA	17	614; 627; 640; 971; 1013; 1382; 1918; 2609; 2882; 3038; 3062; 3098; 3260; 3451; 3496; 3751; 4589
TaqII	GACCGANNNNNNNNNNN!	4	1327; 1789; 2806; 3474
TaqII	!NNNNNNNNNTCGGTC	1	3718
TaqII	CACCCANNNNNNNNNNN!	1	1237
TaqII	!NNNNNNNNNTGGGTG	3	172; 2673; 3265
TasI	!AATT	13	18; 629; 984; 1101; 1519; 1583; 1661; 1687; 1698; 2345; 2417; 2509; 3927
TatI	W!GTACW	6	217; 297; 330; 381; 1028; 1121
TauI	GCSG!C	22	689; 770; 1247; 1250; 1367; 1415; 1418; 2089; 2103; 2541; 2680; 2743; 2838; 3003; 3006; 3245; 3341; 3382; 3510; 3864; 4492; 4647
TfiI	G!AWTC	6	1089; 3254; 3388; 3498; 3535; 4713
THI	C!TCGAG	1	613
TruII	T!TAA	15	7; 1470; 1531; 1652; 1673; 1684; 1696; 1707; 1724; 1822; 2093; 3912; 3926; 3931; 3983
Tru9I	T!TAA	15	7; 1470; 1531; 1652; 1673; 1684; 1696; 1707; 1724; 1822; 2093; 3912; 3926; 3931; 3983
TscAI	CASTGNN!	7	889; 1120; 1615; 2898; 4008; 4279; 4292
TseI	G!CWGC	17	683; 929; 1022; 1190; 1545; 2064; 2729; 2830; 2872; 2913; 3006; 3393; 3846; 4072; 4278; 4281; 4346
TsoI	TARCCANNNNNNNNNNN!	2	1741; 2088
TsoI	!NNNNNNNNNTGGYTA	3	932; 1546; 3298
Tsp45I	!GTSAC	6	858; 1005; 1308; 2058; 2889; 3195
Tsp509I	!AATT	13	18; 629; 984; 1101; 1519; 1583; 1661; 1687; 1698; 2345; 2417; 2509; 3927
TspDTI	ATGAANNNNNNNNNNN!	4	1243; 1527; 2828; 3532
TspDTI	!NNNNNNNNNTTCAT	6	26; 804; 1194; 3246; 3702; 3909
TspEI	!AATT	13	18; 629; 984; 1101; 1519; 1583; 1661; 1687; 1698; 2345; 2417; 2509; 3927
TspGWI	ACGGANNNNNNNNNNN!	1	3644
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	7	889; 1120; 1615; 2898; 4008; 4279; 4292
TstI	CACNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2887
Tth111II	CAARCANNNNNNNNNNN!	1	4096
Tth111III	!NNNNNNNNNTGYTTG	3	3204; 4064; 4103
UnbI	!GGNCC	11	82; 275; 653; 900; 1248; 1875; 3284; 3729; 3775; 3833; 3866
Van9II	CCANNNN!NTGG	1	1080
Vha464I	C!TTAAG	1	1651
VneI	G!TGCAC	2	1255; 4373
VpaK11AI	!GGWCC	2	3284; 3729
VpaK11BI	G!GWCC	2	3285; 3730
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	629; 1583; 1687; 1698
XbaI	T!CTAGA	1	1423
XceI	RCATG!Y	5	936; 2339; 2411; 3174; 4691
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	11	585; 609; 660; 710; 2940; 3186; 3578; 3937; 3949; 4035; 4046
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	2591; 3606

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	1	916
XspI	C!TAG	8	592; 1424; 1618; 2036; 2592; 3607; 3941; 4194
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2341; 2413; 4744