

pDendra2-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	1512; 1717
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1800; 2756; 4545
AatI	AGG!CCT	1	2550
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	640
AccII	CG!CG	18	60; 651; 719; 1139; 1378; 1653; 2029; 2049; 2073; 2104; 2795; 3096; 3534; 3618; 3681; 3750; 4023; 4604
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2831
Acc36I	ACCTGCNNNN!	2	2997; 3447
Acc36I	!NNNNNNNNGCAGGT	1	2616
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	8	465; 645; 799; 832; 1057; 1882; 2728; 2763
AccB7I	CCANNNN!NTGG	1	1263
AccBSI	CCG!CTC	2	2153; 3342
AccBSI	GAG!CGG	2	1989; 3396
AceIII	CAGCTCNNNNNNN!	1	1685
AceIII	!NNNNNNNNNNGAGCTG	1	552
AciI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 649; 809; 869; 1002; 1272; 1338; 1376; 2044; 2047; 2061; 2151; 2399; 2411; 2420; 2432; 2442; 2453; 2499; 2638; 2701; 3203; 3248; 3314; 3340; 3465; 3468; 3616; 3748; 4055; 4199; 4695
AciI	G!CGG	27	370; 403; 528; 651; 1187; 1190; 1372; 1989; 2016; 2104; 2214; 2795; 2859; 2960; 2963; 3243; 3298; 3396; 3534; 3681; 3821; 4064; 4309; 4430; 4449; 4576; 4604
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	8	668; 2597; 2908; 3154; 3546; 3905; 4003; 4089
AclWI	!NNNNNGATCC	7	580; 655; 1275; 2973; 3517; 3904; 4001
AcoI	Y!GGCCR	7	750; 1191; 1373; 2635; 2809; 3200; 3227
AcsI	R!AATY	4	629; 1543; 1647; 1658
AcuI	CTGAAGNNNNNNNNNNNNNNN!	3	1123; 2875; 3307
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	831; 4105
AcvI	CAC!GTG	1	1134
AcyI	GR!CGYC	9	122; 175; 258; 444; 833; 1253; 2729; 3431; 3510
AdeI	CACNNN!GTG	3	1263; 1332; 1845
AfaI	GT!AC	10	219; 244; 299; 332; 383; 540; 647; 904; 1321; 3035
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	23	49; 705; 796; 1075; 1106; 1152; 1179; 1263; 1741; 2067; 2459; 2710; 3254; 3535; 3567; 3699; 3734; 3784; 3816; 4169; 4448; 4614; 4632
AfIII	C!TTAAG	1	1611
AfIII	A!CRYGT	1	4647
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	8	930; 1053; 1212; 2140; 2184; 2194; 2607; 4183
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
Ajni	!CCWGG	14	88; 281; 1016; 1283; 1358; 2263; 2318; 2335; 3114; 3693; 3796; 4486; 4499; 4620
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	1	871
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2303; 2375
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	2	2269; 2341
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	1811
AloI	!NNNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1779
AluI	AG!CT	20	566; 618; 624; 851; 938; 956; 1128; 1245; 1317; 1508; 1675; 1932; 2227; 2515; 2835; 3293; 4090; 4347; 4393; 4483
AluBI	AG!CT	20	566; 618; 624; 851; 938; 956; 1128; 1245; 1317; 1508; 1675; 1932; 2227; 2515; 2835; 3293; 4090; 4347; 4393; 4483
AlwI	GGATCNNNN!	8	668; 2597; 2908; 3154; 3546; 3905; 4003; 4089
AlwI	!NNNNNGATCC	7	580; 655; 1275; 2973; 3517; 3904; 4001
Alw21I	GWGCW!C	7	620; 731; 878; 1328; 2842; 3032; 4337
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	4	2153; 2571; 3590; 3718
Alw44I	G!TGCAC	3	727; 874; 4333
AlwNI	CAGNN!CTG	2	3830; 4238
Ama87I	C!YCGRG	5	613; 656; 687; 907; 943
Aor13HI	T!CCGGA	0	
Aor51HI	AG!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNNN!TGC	3	2297; 2369; 3831
ApaLI	G!TGCAC	3	727; 874; 4333
ApeKI	G!CWGC	18	1004; 1128; 1176; 1242; 1245; 1505; 2024; 2689; 2790; 2832; 2873; 2966; 3353; 3806; 4032; 4238; 4241; 4306
ApoI	R!AATTY	4	629; 1543; 1647; 1658
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3244
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	3038; 3691; 4529
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3128
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2557
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	3	921; 1047; 3299
ArsI	GACNNNNNTTYGNNNNNNNNNNNNN!	1	1275
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	1	1243
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	23	586; 610; 661; 702; 765; 1281; 1387; 2567; 2571; 2590; 2901; 2979; 3060; 3069; 3147; 3523; 3539; 3898; 3910; 3988; 3996; 4007; 4082
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2847
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	2551; 3566
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	26	597; 719; 835; 965; 1049; 1139; 1995; 2003; 2029; 2051; 2060; 2073; 2104; 2723; 2731; 2795; 2832; 3098; 3358; 3534; 3620; 4023; 4132; 4306; 4406; 4473
AspS9I	G!GNCC	13	83; 276; 654; 1078; 1170; 1266; 1335; 1836; 3245; 3690; 3736; 3794; 3827
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 3411
AsuC2I	CC!SGG	9	657; 658; 688; 689; 889; 2733; 2893; 3506; 4270
AsuHPI	GGTGANNNNNNNNN!	4	376; 1323; 3800; 3916
AsuHPI	!NNNNNNNTCACC	3	888; 1846; 2907
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	5	613; 656; 687; 907; 943
AvaII	G!GWCC	3	1266; 3245; 3690
AviII	TGC!GCA	1	2831
AvrII	C!CTAGG	2	2551; 3566

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AxyI	CC!TNAGG	2	2209; 3841
BaeI	ACNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	657; 731; 802; 878; 1060; 2675; 2768; 4337
BalI	TGG!CCA	1	2811
BamHI	G!GATCC	1	660
BanI	G!GYRCC	8	465; 645; 799; 832; 1057; 1882; 2728; 2763
BanII	GRGCY!C	6	620; 657; 1115; 1920; 3094; 3804
BanIII	AT!CGAT	1	2569
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	1263
BauI	C!ACGAG	2	3447; 4474
BauI	C!TCGTG	1	3321
BbeI	GGCGC!C	2	836; 2732
Bbr7I	GAAGACNNNNNN!	1	1107
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	1	1134
BbsI	GAAGACNN!	1	1102
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2299; 2371; 3134
BbvI	GCAGCNNNNNNN!	8	1016; 1254; 1517; 2802; 2844; 3365; 3818; 4318
BbvI	!NNNNNNNNNNNGCTGC	9	1115; 1163; 1232; 2011; 2676; 2860; 2953; 4019; 4225
Bbv12I	GWGCW!C	7	620; 731; 878; 1328; 2842; 3032; 4337
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	1006; 1859; 2423; 2949; 3451
BccI	!NNNNNGATGG	3	1827; 2607; 3035
BceAI	ACGGCNNNNNNNNNNNN!	6	765; 897; 1092; 1158; 3155; 3642
BceAI	!NNNNNNNNNNNNNGCCGT	5	856; 1315; 1870; 2688; 4147
BceFI	ACGGCNNNNNNNNNNNN!	6	765; 897; 1092; 1158; 3155; 3642
BceFI	!NNNNNNNNNNNNNGCCGT	5	857; 1316; 1871; 2689; 4148
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2158; 2948; 4449
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	701
BcnI	CC!SGG	9	657; 658; 688; 689; 889; 2733; 2893; 3506; 4270
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	4582
BdaI	!NNNNNNNNNNTGANNNNNTCA	1	4548
BfaI	C!TAG	8	592; 1384; 1578; 1996; 2552; 3567; 3901; 4154
BfiI	ACTGGGNNNNN!	1	2678
BfiI	!NNNNCCCAGT	2	289; 2430
BfmI	C!TRYAG	6	634; 951; 1341; 2064; 4191; 4382
BfoI	RGCGC!Y	6	598; 836; 1996; 2004; 2732; 4407
BfrI	C!TTAAG	1	1611
BfuI	GTATCCNNNNNN!	3	2158; 2948; 4449
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	2997; 3447
BfuAI	!NNNNNNNNNGCAGGT	1	2616
BfuCI	!GATC	23	585; 609; 660; 701; 764; 1280; 1386; 2566; 2570; 2589; 2900; 2978; 3059; 3068; 3146; 3522; 3538; 3897; 3909; 3987; 3995; 4006; 4081
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1022; 2504
BglII	A!GATCT	1	609

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BisI	GC!NGC	36	1005; 1129; 1177; 1188; 1191; 1243; 1246; 1373; 1376; 1506; 2025; 2047; 2061; 2499; 2638; 2690; 2701; 2791; 2796; 2833; 2874; 2961; 2967; 3203; 3299; 3340; 3354; 3468; 3807; 3822; 4033; 4239; 4242; 4307; 4450; 4605
BlnI	C!CTAGG	2	2551; 3566
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	36	1006; 1130; 1178; 1189; 1192; 1244; 1247; 1374; 1377; 1507; 2026; 2048; 2062; 2500; 2639; 2691; 2702; 2792; 2797; 2834; 2875; 2962; 2968; 3204; 3300; 3341; 3355; 3469; 3808; 3823; 4034; 4240; 4243; 4308; 4451; 4606
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	1266; 3245; 3690
Bme1390I	CC!NGG	23	90; 283; 657; 658; 688; 689; 889; 1018; 1285; 1360; 2265; 2320; 2337; 2733; 2893; 3116; 3506; 3695; 3798; 4270; 4488; 4501; 4622
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	5	613; 656; 687; 907; 943
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	13	84; 277; 655; 1079; 1171; 1267; 1336; 1837; 3246; 3691; 3737; 3795; 3828
BmiI	GGN!NCC	22	467; 647; 655; 662; 801; 834; 1059; 1080; 1112; 1884; 1905; 1917; 2108; 2269; 2341; 2730; 2765; 3613; 3692; 3737; 4580; 4619
BmrI	ACTGGGNNNNN!	1	2678
BmrI	!NNNNCCCAGT	2	289; 2430
BmrFI	CC!NGG	23	90; 283; 657; 658; 688; 689; 889; 1018; 1285; 1360; 2265; 2320; 2337; 2733; 2893; 3116; 3506; 3695; 3798; 4270; 4488; 4501; 4622
BmsI	GCATCNNNNN!	8	998; 1283; 1545; 2308; 2380; 3028; 3092; 3367
BmsI	!NNNNNNNNNGATGC	6	357; 1076; 2687; 2942; 3158; 4550
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2678
BmuI	!NNNNCCCAGT	2	289; 2430
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	1	1102
BpiI	!NNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2518; 3417
BpI	!NNNNNNNGAGNNNNNCTC	2	2486; 3385
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	1039; 1201; 3569
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3512
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 3411
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	1102
BpuAI	!NNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4023; 4562
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	604; 3105; 4264
BpuMI	CC!SGG	9	657; 658; 688; 689; 889; 2733; 2893; 3506; 4270
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3718
Bsa29I	AT!CGAT	1	2569
BsaAI	YAC!GTR	4	340; 1134; 1845; 3033
BsaBI	GATNN!NNATC	2	1391; 2588
BsaHI	GR!CGYC	9	122; 175; 258; 444; 833; 1253; 2729; 3431; 3510
BsaJI	C!CNNGG	22	360; 649; 656; 687; 908; 944; 1284; 1331; 2263; 2335; 2458; 2493; 2502; 2551; 2892; 3161; 3566; 3693; 3694; 3796; 3797; 4487
BsaMI	GAATGCN!	1	1480
BsaMI	G!CATT	1	1573
BsaWI	W!CCGGW	6	600; 666; 2760; 3604; 4294; 4441
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1809
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1779

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	1730; 3637
Bsc4I	CCNNNNN!NNGG	23	49; 705; 796; 1075; 1106; 1152; 1179; 1263; 1741; 2067; 2459; 2710; 3254; 3535; 3567; 3699; 3734; 3784; 3816; 4169; 4448; 4614; 4632
BscAI	GCATCNNNN!	8	997; 1282; 1544; 2307; 2379; 3027; 3091; 3366
BscAI	!NNNNNNGATGC	6	360; 1079; 2690; 2945; 3161; 4553
BseI	ACTGGN!	3	2673; 2874; 4120
BseI	C!CAGT	5	295; 1758; 2436; 4232; 4245
Bse8I	GATNN!NNATC	2	1391; 2588
Bse21I	CC!TNAGG	2	2209; 3841
Bse118I	R!CCGGY	5	666; 1946; 3048; 3229; 3512
BseAI	T!CCGGA	0	
BseBI	CC!WGG	14	90; 283; 1018; 1285; 1360; 2265; 2320; 2337; 3116; 3695; 3798; 4488; 4501; 4622
BseCI	AT!CGAT	1	2569
BseDI	C!CNNGG	22	360; 649; 656; 687; 908; 944; 1284; 1331; 2263; 2335; 2458; 2493; 2502; 2551; 2892; 3161; 3566; 3693; 3694; 3796; 3797; 4487
Bse3DI	GCAATGNN!	1	2962
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2589; 3046; 3071; 3525
BseGI	!CATCC	4	857; 914; 998; 2415
BseJI	GATNN!NNATC	2	1391; 2588
BseLI	CCNNNNN!NNGG	23	49; 705; 796; 1075; 1106; 1152; 1179; 1263; 1741; 2067; 2459; 2710; 3254; 3535; 3567; 3699; 3734; 3784; 3816; 4169; 4448; 4614; 4632
BseMI	GCAATGNN!	1	2962
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	620; 3855
BseMII	!NNNNNNNNNCTGAG	5	2200; 2502; 3383; 3955; 4364
BseNI	ACTGGN!	3	2673; 2874; 4120
BseNI	C!CAGT	5	295; 1758; 2436; 4232; 4245
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2547
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	8	657; 731; 802; 878; 1060; 2675; 2768; 4337
BseXI	GCAGCNNNNNNNN!	8	1016; 1254; 1517; 2802; 2844; 3365; 3818; 4318
BseXI	!NNNNNNNNNNNGCTGC	9	1115; 1163; 1232; 2011; 2676; 2860; 2953; 4019; 4225
BseX3I	C!GGCCG	2	1373; 2635
BseYI	C!CCAGC	5	1114; 1354; 2272; 2344; 4343
BseYI	G!CTGGG	2	956; 3233
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1261
BsgI	!NNNNNNNNNNNNNCTGCAC	2	978; 1114
Bsh1236I	CG!CG	18	60; 651; 719; 1139; 1378; 1653; 2029; 2049; 2073; 2104; 2795; 3096; 3534; 3618; 3681; 3750; 4023; 4604
Bsh1285I	CGRY!CG	4	671; 1376; 2638; 4313
BshFI	GG!CC	28	84; 277; 655; 752; 1079; 1145; 1171; 1193; 1228; 1336; 1375; 1695; 1837; 2492; 2498; 2507; 2550; 2637; 2811; 3202; 3229; 3738; 3795; 3828; 4173; 4607; 4625; 4636
BshNI	G!GYRCC	8	465; 645; 799; 832; 1057; 1882; 2728; 2763
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	2569
BsiEI	CGRY!CG	4	671; 1376; 2638; 4313
BsiHKAI	GWGCW!C	7	620; 731; 878; 1328; 2842; 3032; 4337
BsiHKCI	C!YCGRG	5	613; 656; 687; 907; 943
BsiSI	C!CGG	21	601; 657; 667; 688; 888; 1947; 2634; 2711; 2733; 2761; 2892; 2982; 3049; 3230; 3505; 3513; 3605; 4079; 4269; 4295; 4442
BsiWI	C!GTACG	0	
BslI	CCNNNNN!NNGG	23	49; 705; 796; 1075; 1106; 1152; 1179; 1263; 1741; 2067; 2459; 2710; 3254; 3535; 3567; 3699; 3734; 3784; 3816; 4169; 4448; 4614; 4632
BslFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2880; 3412; 3521
BslFI	!NNNNNNNNNNNNNGTCCC	4	2245; 2317; 2381; 3676
BsmI	GAATGCN!	1	1480
BsmI	G!CATTC	1	1573

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BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	4	2153; 2571; 3590; 3718
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2880; 3412; 3521
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2245; 2317; 2381; 3676
BsnI	GG!CC	28	84; 277; 655; 752; 1079; 1145; 1171; 1193; 1228; 1336; 1375; 1695; 1837; 2492; 2498; 2507; 2550; 2637; 2811; 3202; 3229; 3738; 3795; 3828; 4173; 4607; 4625; 4636
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3718
BsoBI	C!YCGRG	5	613; 656; 687; 907; 943
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	360; 2458; 3161
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3532
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	3953; 4131
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	3985; 4163
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 3500
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 3411
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	23	585; 609; 660; 701; 764; 1280; 1386; 2566; 2570; 2589; 2900; 2978; 3059; 3068; 3146; 3522; 3538; 3897; 3909; 3987; 3995; 4006; 4081
Bsp1286I	GDGCH!C	16	620; 657; 731; 802; 878; 1060; 1115; 1328; 1920; 2675; 2768; 2842; 3032; 3094; 3804; 4337
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 649; 809; 869; 1002; 1272; 1338; 1376; 2044; 2047; 2061; 2151; 2399; 2411; 2420; 2432; 2442; 2453; 2499; 2638; 2701; 3203; 3248; 3314; 3340; 3465; 3468; 3616; 3748; 4055; 4199; 4695
BspACI	G!CGG	27	370; 403; 528; 651; 1187; 1190; 1372; 1989; 2016; 2104; 2214; 2795; 2859; 2960; 2963; 3243; 3298; 3396; 3534; 3681; 3821; 4064; 4309; 4430; 4449; 4576; 4604
BspCNI	CTCAGNNNNNNNN!	2	619; 3854
BspCNI	!NNNNNNNCTGAG	5	2201; 2503; 3384; 3956; 4365
BspDI	AT!CGAT	1	2569
BspD6I	GACTCNNNN!	6	418; 612; 1388; 1802; 3408; 4285
BspD6I	!NNNNNGAGTC	2	1765; 2197
BspEI	T!CCGGA	0	
BspFNI	CG!CG	18	60; 651; 719; 1139; 1378; 1653; 2029; 2049; 2073; 2104; 2795; 3096; 3534; 3618; 3681; 3750; 4023; 4604
BspHI	T!CATGA	2	2155; 3927
BspLI	GGN!NCC	22	467; 647; 655; 662; 801; 834; 1059; 1080; 1112; 1884; 1905; 1917; 2108; 2269; 2341; 2730; 2765; 3613; 3692; 3737; 4580; 4619
BspMI	ACCTGCNNNN!	2	2997; 3447
BspMI	!NNNNNNNGCAGGT	1	2616
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	668; 2597; 2908; 3154; 3546; 3905; 4003; 4089
BspPI	!NNNNNGATCC	7	580; 655; 1275; 2973; 3517; 3904; 4001
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3073; 3283
BspTI	C!TTAAG	1	1611
BspT104I	TT!CGAA	2	627; 3411
BspT107I	G!GYRCC	8	465; 645; 799; 832; 1057; 1882; 2728; 2763
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3718
BsrI	ACTGGN!	3	2673; 2874; 4120
BsrI	C!CAGT	5	295; 1758; 2436; 4232; 4245
BsrBI	CCG!CTC	2	2153; 3342
BsrBI	GAG!CGG	2	1989; 3396
BsrDI	GCAATGNN!	1	2962
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	5	666; 1946; 3048; 3229; 3512

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrGI	T!GTACA	0	
BsrSI	ACTGGN!	3	2673; 2874; 4120
BsrSI	C!CAGT	5	295; 1758; 2436; 4232; 4245
BssAI	R!CCGGY	5	666; 1946; 3048; 3229; 3512
BssECI	C!CNNGG	22	360; 649; 656; 687; 908; 944; 1284; 1331; 2263; 2335; 2458; 2493; 2502; 2551; 2892; 3161; 3566; 3693; 3694; 3796; 3797; 4487
BssHII	G!CGCGC	0	
BssKI	!CCNGG	23	88; 281; 655; 656; 686; 687; 887; 1016; 1283; 1358; 2263; 2318; 2335; 2731; 2891; 3114; 3504; 3693; 3796; 4268; 4486; 4499; 4620
BssMI	!GATC	23	585; 609; 660; 701; 764; 1280; 1386; 2566; 2570; 2589; 2900; 2978; 3059; 3068; 3146; 3522; 3538; 3897; 3909; 3987; 3995; 4006; 4081
BssNI	GR!CGYC	9	122; 175; 258; 444; 833; 1253; 2729; 3431; 3510
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3447; 4474
BssSI	C!TCGTG	1	3321
BssTII	C!CWWGG	5	360; 2458; 2551; 3161; 3566
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	3	2196; 3073; 3283
Bst98I	C!TTAAG	1	1611
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 833; 1253; 2729; 3431; 3510
BstAFI	C!TTAAG	1	1611
BstAPI	GCANNNN!NTGC	3	2296; 2368; 3830
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	2	627; 3411
Bst2BI	C!ACGAG	2	3447; 4474
Bst2BI	C!TCGTG	1	3321
BstBAI	YAC!GTR	4	340; 1134; 1845; 3033
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 645; 822; 1820; 3109; 3225; 3333; 3656; 4147; 4617; 4688
BstC8I	GCN!NGC	32	86; 279; 593; 653; 787; 1147; 1328; 1338; 1948; 1991; 2005; 2278; 2297; 2350; 2369; 2623; 2809; 3028; 3094; 3100; 3132; 3173; 3177; 3231; 3514; 3701; 3748; 3804; 3826; 4037; 4597; 4634
BstDEI	C!TNAG	7	606; 2209; 2511; 3392; 3841; 3964; 4373
BstDSI	C!CRYGG	5	360; 649; 1331; 2458; 3161
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	1	703
BstF5I	GGATGNN!	4	2589; 3046; 3071; 3525
BstF5I	!CATCC	4	857; 914; 998; 2415
BstFNI	CG!CG	18	60; 651; 719; 1139; 1378; 1653; 2029; 2049; 2073; 2104; 2795; 3096; 3534; 3618; 3681; 3750; 4023; 4604
BstH2I	RGCGC!Y	6	598; 836; 1996; 2004; 2732; 4407
BstHHI	GCG!C	26	597; 719; 835; 965; 1049; 1139; 1995; 2003; 2029; 2051; 2060; 2073; 2104; 2723; 2731; 2795; 2832; 3098; 3358; 3534; 3620; 4023; 4132; 4306; 4406; 4473
BstKTI	GAT!C	23	588; 612; 663; 704; 767; 1283; 1389; 2569; 2573; 2592; 2903; 2981; 3062; 3071; 3149; 3525; 3541; 3900; 3912; 3990; 3998; 4009; 4084
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	4	2153; 2571; 3590; 3718
BstMBI	!GATC	23	585; 609; 660; 701; 764; 1280; 1386; 2566; 2570; 2589; 2900; 2978; 3059; 3068; 3146; 3522; 3538; 3897; 3909; 3987; 3995; 4006; 4081
BstMCI	CGRY!CG	4	671; 1376; 2638; 4313
BstMWI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 962; 1001; 1013; 1055; 1134; 1295; 1323; 1956; 1986; 2013; 2055; 2296; 2368; 2419; 2498; 2720; 2804; 2827; 2966; 3089; 3172; 3439; 3626; 3830; 4029; 4601
BstNI	CC!WGG	14	90; 283; 1018; 1285; 1360; 2265; 2320; 2337; 3116; 3695; 3798; 4488; 4501; 4622
BstNSI	RCATG!Y	5	717; 2299; 2371; 3134; 4651
BstOI	CC!WGG	14	90; 283; 1018; 1285; 1360; 2265; 2320; 2337; 3116; 3695; 3798; 4488; 4501; 4622

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	23	88; 281; 655; 656; 686; 687; 887; 1016; 1283; 1358; 2263; 2318; 2335; 2731; 2891; 3114; 3504; 3693; 3796; 4268; 4486; 4499; 4620
BstSFI	C!TRYAG	6	634; 951; 1341; 2064; 4191; 4382
BstSLI	GKGCM!C	8	657; 731; 802; 878; 1060; 2675; 2768; 4337
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	18	60; 651; 719; 1139; 1378; 1653; 2029; 2049; 2073; 2104; 2795; 3096; 3534; 3618; 3681; 3750; 4023; 4604
Bst2UI	CC!WGG	14	90; 283; 1018; 1285; 1360; 2265; 2320; 2337; 3116; 3695; 3798; 4488; 4501; 4622
BstV1I	GCAGCNNNNNNN!	8	1016; 1254; 1517; 2802; 2844; 3365; 3818; 4318
BstV1I	!NNNNNNNNNNNGCTGC	9	1115; 1163; 1232; 2011; 2676; 2860; 2953; 4019; 4225
BstV2I	GAAGACNN!	1	1102
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	1	1236
BstX2I	R!GATCY	11	585; 609; 660; 1280; 2900; 3146; 3538; 3897; 3909; 3995; 4006
BstYI	R!GATCY	11	585; 609; 660; 1280; 2900; 3146; 3538; 3897; 3909; 3995; 4006
BstZI	C!GGCCG	2	1373; 2635
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNN!	3	2158; 2948; 4449
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2569
Bsu36I	CC!TNAGG	2	2209; 3841
BsuRI	GG!CC	28	84; 277; 655; 752; 1079; 1145; 1171; 1193; 1228; 1336; 1375; 1695; 1837; 2492; 2498; 2507; 2550; 2637; 2811; 3202; 3229; 3738; 3795; 3828; 4173; 4607; 4625; 4636
BsuTUI	AT!CGAT	1	2569
BtgI	C!CRYGG	5	360; 649; 1331; 2458; 3161
BtgZI	GCGATGNNNNNNNNN!	2	1846; 3181
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 3000; 3344
BthCI	GCNG!C	36	1007; 1131; 1179; 1190; 1193; 1245; 1248; 1375; 1378; 1508; 2027; 2049; 2063; 2501; 2640; 2692; 2703; 2793; 2798; 2835; 2876; 2963; 2969; 3205; 3301; 3342; 3356; 3470; 3809; 3824; 4035; 4241; 4244; 4309; 4452; 4607
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1568
BtsCI	GGATGNN!	4	2589; 3046; 3071; 3525
BtsCI	!CATCC	4	857; 914; 998; 2415
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	2997; 3447
BveI	!NNNNNNNNGCAGGT	1	2616
Cac8I	GCN!NGC	32	86; 279; 593; 653; 787; 1147; 1328; 1338; 1948; 1991; 2005; 2278; 2297; 2350; 2369; 2623; 2809; 3028; 3094; 3100; 3132; 3173; 3177; 3231; 3514; 3701; 3748; 3804; 3826; 4037; 4597; 4634
CaiI	CAGNNN!CTG	2	3830; 4238
CciI	T!CATGA	2	2155; 3927
CciNI	GC!GGCCGC	1	1373
CdiI	CATC!G	6	352; 1278; 3018; 3023; 3221; 3362
CdiI	C!GATG	2	1832; 3167
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4601
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2390; 2432
CelII	GC!TNAGC	0	
CfoI	GCG!C	26	597; 719; 835; 965; 1049; 1139; 1995; 2003; 2029; 2051; 2060; 2073; 2104; 2723; 2731; 2795; 2832; 3098; 3358; 3534; 3620; 4023; 4132; 4306; 4406; 4473
CfrI	Y!GGCCR	7	750; 1191; 1373; 2635; 2809; 3200; 3227
Cfr9I	C!CCGGG	2	656; 687
Cfr10I	R!CCGGY	5	666; 1946; 3048; 3229; 3512
Cfr13I	G!GNCC	13	83; 276; 654; 1078; 1170; 1266; 1335; 1836; 3245; 3690; 3736; 3794; 3827
Cfr42I	CCGC!GG	1	652

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
ChaI	GATC!	23	589; 613; 664; 705; 768; 1284; 1390; 2570; 2574; 2593; 2904; 2982; 3063; 3072; 3150; 3526; 3542; 3901; 3913; 3991; 3999; 4010; 4085
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	6	1219; 1384; 2546; 3986; 4086; 4164
CjeI	!NNNNNNNNNACNNNNNTGG	7	64; 257; 2213; 2308; 3500; 4050; 4605
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2247; 2342; 3534; 4084; 4639
CjeI	!NNNNNNNNCCANNNNNNGT	6	1185; 1350; 2512; 3952; 4052; 4130
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	2	3986; 4164
CjePI	!NNNNNNNNGANNNNNNTGG	3	257; 3500; 4099
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	3	290; 3533; 4132
CjePI	!NNNNNNNNCCANNNNNNTC	2	3953; 4131
Clal	AT!CGAT	1	2569
CpoI	CG!GWCCG	1	3245
CseI	GACGCNNNNN!	4	526; 1261; 3439; 3518
CseI	!NNNNNNNNNNGCGTC	3	2062; 3957; 4535
CsiI	A!CCWGGT	1	2318
CspI	CG!GWCCG	1	3245
Csp6I	G!TAC	10	218; 243; 298; 331; 382; 539; 646; 903; 1320; 3034
Csp45I	TT!CGAA	2	627; 3411
CspAI	A!CCGGT	1	666
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	731; 851; 2009; 3618
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	20	301; 361; 678; 714; 732; 969; 1167; 2156; 2296; 2368; 2459; 2600; 2945; 3131; 3162; 3188; 3544; 3928; 4648; 4699
CviJI	RG!CY	94	42; 84; 93; 277; 566; 618; 624; 655; 752; 789; 851; 938; 950; 956; 1016; 1079; 1113; 1128; 1145; 1171; 1193; 1228; 1245; 1317; 1336; 1346; 1358; 1375; 1398; 1508; 1675; 1695; 1837; 1918; 1932; 1946; 2227; 2268; 2340; 2463; 2492; 2498; 2507; 2515; 2538; 2550; 2556; 2637; 2654; 2662; 2689; 2714; 2798; 2807; 2811; 2835; 2873; 2949; 2966; 2985; 3048; 3092; 3102; 3119; 3202; 3229; 3233; 3270; 3293; 3309; 3489; 3516; 3577; 3699; 3738; 3795; 3802; 3809; 3828; 3839; 4090; 4119; 4162; 4173; 4238; 4317; 4342; 4347; 4393; 4483; 4581; 4607; 4625; 4636
CviKI-1	RG!CY	94	42; 84; 93; 277; 566; 618; 624; 655; 752; 789; 851; 938; 950; 956; 1016; 1079; 1113; 1128; 1145; 1171; 1193; 1228; 1245; 1317; 1336; 1346; 1358; 1375; 1398; 1508; 1675; 1695; 1837; 1918; 1932; 1946; 2227; 2268; 2340; 2463; 2492; 2498; 2507; 2515; 2538; 2550; 2556; 2637; 2654; 2662; 2689; 2714; 2798; 2807; 2811; 2835; 2873; 2949; 2966; 2985; 3048; 3092; 3102; 3119; 3202; 3229; 3233; 3270; 3293; 3309; 3489; 3516; 3577; 3699; 3738; 3795; 3802; 3809; 3828; 3839; 4090; 4119; 4162; 4173; 4238; 4317; 4342; 4347; 4393; 4483; 4581; 4607; 4625; 4636
CviQI	G!TAC	10	218; 243; 298; 331; 382; 539; 646; 903; 1320; 3034
DdeI	C!TNAG	7	606; 2209; 2511; 3392; 3841; 3964; 4373
DinI	GGC!GCC	2	834; 2730
DpnI	GA!TC	23	587; 611; 662; 703; 766; 1282; 1388; 2568; 2572; 2591; 2902; 2980; 3061; 3070; 3148; 3524; 3540; 3899; 3911; 3989; 3997; 4008; 4083
DpnII	!GATC	23	585; 609; 660; 701; 764; 1280; 1386; 2566; 2570; 2589; 2900; 2978; 3059; 3068; 3146; 3522; 3538; 3897; 3909; 3987; 3995; 4006; 4081
DraI	TTT!AAA	3	1431; 3873; 3892
DraII	RG!GNCCY	1	3827
DraIII	CACNN!GTG	3	1263; 1332; 1845
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 926; 4209
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1800; 2756; 4545
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	1	878
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1800; 2756; 4545
EaeI	Y!GGCCR	7	750; 1191; 1373; 2635; 2809; 3200; 3227

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EagI	C!GGCCG	2	1373; 2635
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2196; 3073; 3283
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	3	2196; 3073; 3283
EciI	GGCGGANNNNNNNNNN!	4	2229; 3258; 4445; 4591
EciI	!NNNNNNNNNTCCGCC	4	496; 2400; 2421; 2442
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	2	1373; 2635
Eco24I	GRGCY!C	6	620; 657; 1115; 1920; 3094; 3804
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	1	3718
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	1266; 3245; 3690
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1373; 2635
Eco57I	CTGAAGNNNNNNNNNNNNNN!	3	1123; 2875; 3307
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	831; 4105
Eco72I	CAC!GTG	1	1134
Eco81I	CC!TNAGG	2	2209; 3841
Eco88I	C!YCGRG	5	613; 656; 687; 907; 943
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	5	360; 2458; 2551; 3161; 3566
Eco147I	AGG!CCT	1	2550
EcoHI	!CCSGG	9	655; 656; 686; 687; 887; 2731; 2891; 3504; 4268
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	6	1039; 1123; 1201; 2875; 3307; 3569
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	831; 3512; 4105
EcoNI	CCTNN!NNNAGG	1	703
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	3827
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	14	88; 281; 1016; 1283; 1358; 2263; 2318; 2335; 3114; 3693; 3796; 4486; 4499; 4620
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	360; 2458; 2551; 3161; 3566
EcoT22I	ATGCA!T	3	2301; 2373; 4704
EcoT38I	GRGCY!C	6	620; 657; 1115; 1920; 3094; 3804
Eco53kI	GAG!CTC	1	618
EgeI	GGC!GCC	2	834; 2730
EheI	GGC!GCC	2	834; 2730
ErhI	C!CWWGG	5	360; 2458; 2551; 3161; 3566
EsaBC3I	TC!GA	17	615; 628; 641; 768; 978; 1278; 1879; 2570; 2843; 2999; 3023; 3059; 3221; 3412; 3457; 3712; 4550
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNGAGACG	0	
FaeI	CATG!	20	304; 364; 681; 717; 735; 972; 1170; 2159; 2299; 2371; 2462; 2603; 2948; 3134; 3165; 3191; 3547; 3931; 4651; 4702
Fail	YA!TR	56	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 715; 733; 970; 1168; 1391; 1401; 1467; 1512; 1717; 2145; 2157; 2288; 2297; 2360; 2369; 2393; 2460; 2484; 2601; 2665; 2946; 2971; 3132; 3163; 3189; 3261; 3477; 3545; 3623; 3675; 3836; 3853; 3855; 3857; 3929; 4207; 4396; 4512; 4585; 4649; 4700
FalI	AAGNNNNCTTNNNNNNNNNNNN!	2	954; 3069
FalI	!NNNNNNNNAAGNNNNCTT	2	922; 3037
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2880; 3412; 3521
FaqI	!NNNNNNNNNNNNNGTCCC	4	2245; 2317; 2381; 3676
FatI	!CATG	20	300; 360; 677; 713; 731; 968; 1166; 2155; 2295; 2367; 2458; 2599; 2944; 3130; 3161; 3187; 3543; 3927; 4647; 4698
FauI	CCCGCNNNN!	9	93; 119; 286; 1345; 2051; 2406; 2427; 3623; 3755
FauI	!NNNNNGCGGG	6	644; 1982; 2852; 3389; 3527; 3674
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	701

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FblI	GT!MKAC	1	640
FmuI	GGNC!C	13	86; 279; 657; 1081; 1173; 1269; 1338; 1839; 3248; 3693; 3739; 3797; 3830
Fnu4HI	GC!NGC	36	1005; 1129; 1177; 1188; 1191; 1243; 1246; 1373; 1376; 1506; 2025; 2047; 2061; 2499; 2638; 2690; 2701; 2791; 2796; 2833; 2874; 2961; 2967; 3203; 3299; 3340; 3354; 3468; 3807; 3822; 4033; 4239; 4242; 4307; 4450; 4605
FokI	GGATGNNNNNNNNN!	4	2596; 3053; 3078; 3532
FokI	!NNNNNNNNNNNNNNCATCC	4	844; 901; 985; 2402
FriOI	GRGCY!C	6	620; 657; 1115; 1920; 3094; 3804
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2831
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1384; 1578; 1996; 2552; 3567; 3901; 4154
FspEI	CCNNNNNNNNNNNN!	158	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 699; 766; 803; 817; 834; 849; 874; 901; 919; 933; 955; 981; 1011; 1030; 1051; 1074; 1093; 1113; 1127; 1159; 1185; 1207; 1230; 1262; 1282; 1297; 1344; 1360; 1389; 1412; 1451; 1465; 1606; 1701; 1725; 1748; 1771; 1789; 1811; 1832; 1851; 1870; 1899; 1920; 1934; 1960; 2048; 2074; 2123; 2164; 2182; 2221; 2237; 2275; 2332; 2347; 2404; 2424; 2438; 2455; 2469; 2506; 2521; 2564; 2647; 2714; 2745; 2765; 2780; 2825; 2839; 2905; 2919; 2938; 2954; 2995; 3015; 3062; 3112; 3128; 3148; 3173; 3193; 3216; 3243; 3261; 3287; 3327; 3353; 3377; 3433; 3447; 3475; 3518; 3539; 3574; 3618; 3706; 3730; 3752; 3772; 3788; 3809; 3823; 3842; 3926; 3946; 3974; 3989; 4023; 4065; 4092; 4107; 4152; 4176; 4190; 4212; 4238; 4258; 4282; 4308; 4356; 4375; 4394; 4420; 4455; 4500; 4530; 4544; 4595; 4609; 4634; 4650; 4671; 4700
FspEI	!NNNNNNNNNNNNNNNGG	130	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 673; 691; 709; 734; 754; 781; 811; 866; 895; 931; 964; 1003; 1039; 1061; 1092; 1127; 1153; 1172; 1210; 1249; 1270; 1294; 1318; 1345; 1400; 1500; 1569; 1599; 1677; 1726; 1748; 1776; 1812; 1857; 1886; 1922; 1941; 1969; 1989; 2052; 2075; 2183; 2215; 2233; 2262; 2305; 2334; 2445; 2474; 2517; 2538; 2566; 2599; 2619; 2644; 2671; 2696; 2718; 2746; 2772; 2793; 2844; 2865; 2883; 2931; 2967; 3023; 3048; 3072; 3101; 3124; 3148; 3174; 3196; 3215; 3240; 3280; 3316; 3381; 3466; 3490; 3519; 3553; 3574; 3594; 3639; 3666; 3685; 3718; 3770; 3801; 3828; 3880; 3978; 4049; 4094; 4155; 4220; 4254; 4280; 4298; 4334; 4404; 4427; 4449; 4473; 4506; 4554; 4589; 4607; 4664
Fsp4HI	GC!NGC	36	1005; 1129; 1177; 1188; 1191; 1243; 1246; 1373; 1376; 1506; 2025; 2047; 2061; 2499; 2638; 2690; 2701; 2791; 2796; 2833; 2874; 2961; 2967; 3203; 3299; 3340; 3354; 3468; 3807; 3822; 4033; 4239; 4242; 4307; 4450; 4605
GdiII	C!GGCCR	4	750; 1191; 1373; 2635
GdiII	Y!GGCCG	4	1373; 2635; 3200; 3227
GlaI	GC!GC	26	596; 718; 834; 964; 1048; 1138; 1994; 2002; 2028; 2050; 2059; 2072; 2103; 2722; 2730; 2794; 2831; 3097; 3357; 3533; 3619; 4022; 4131; 4305; 4405; 4472
GluI	GC!NGC	36	1005; 1129; 1177; 1188; 1191; 1243; 1246; 1373; 1376; 1506; 2025; 2047; 2061; 2499; 2638; 2690; 2701; 2791; 2796; 2833; 2874; 2961; 2967; 3203; 3299; 3340; 3354; 3468; 3807; 3822; 4033; 4239; 4242; 4307; 4450; 4605
GsaI	CCCAG!C	5	1118; 1358; 2276; 2348; 4347
GsaI	GCTGG!G	2	960; 3237
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	1039; 1201; 3569
GsuI	!NNNNNNNNNNNNNNNCTCCAG	1	3512
HaeI	WGG!CCW	6	1228; 2550; 2811; 4173; 4625; 4636
HaeII	RGCGC!Y	6	598; 836; 1996; 2004; 2732; 4407
HaeIII	GG!CC	28	84; 277; 655; 752; 1079; 1145; 1171; 1193; 1228; 1336; 1375; 1695; 1837; 2492; 2498; 2507; 2550; 2637; 2811; 3202; 3229; 3738; 3795; 3828; 4173; 4607; 4625; 4636
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1404; 2925
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1370; 2891
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1403; 2924
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1372; 2893

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HapII	C!CGG	21	601; 657; 667; 688; 888; 1947; 2634; 2711; 2733; 2761; 2892; 2982; 3049; 3230; 3505; 3513; 3605; 4079; 4269; 4295; 4442
HgaI	GACGCNNNNN!	4	526; 1261; 3439; 3518
HgaI	!NNNNNNNNNGCGTC	3	2062; 3957; 4535
HhaI	GCG!C	26	597; 719; 835; 965; 1049; 1139; 1995; 2003; 2029; 2051; 2060; 2073; 2104; 2723; 2731; 2795; 2832; 3098; 3358; 3534; 3620; 4023; 4132; 4306; 4406; 4473
Hin1I	GR!CGYC	9	122; 175; 258; 444; 833; 1253; 2729; 3431; 3510
Hin1II	CATG!	20	304; 364; 681; 717; 735; 972; 1170; 2159; 2299; 2371; 2462; 2603; 2948; 3134; 3165; 3191; 3547; 3931; 4651; 4702
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1403; 2924
Hin4I	!NNNNNNNGABNNNNNRTC	3	1371; 2892; 2922
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1403; 2924; 2954
Hin4I	!NNNNNNNGAYNNNNNVTC	2	1371; 2892
Hin6I	G!CGC	26	595; 717; 833; 963; 1047; 1137; 1993; 2001; 2027; 2049; 2058; 2071; 2102; 2721; 2729; 2793; 2830; 3096; 3356; 3532; 3618; 4021; 4130; 4304; 4404; 4471
HinPII	G!CGC	26	595; 717; 833; 963; 1047; 1137; 1993; 2001; 2027; 2049; 2058; 2071; 2102; 2721; 2729; 2793; 2830; 3096; 3356; 3532; 3618; 4021; 4130; 4304; 4404; 4471
HincII	GTY!RAC	2	641; 1492
HindII	GTY!RAC	2	641; 1492
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	13	410; 604; 1380; 1772; 1794; 2204; 3214; 3348; 3400; 3458; 3495; 4277; 4673
HpaI	GTT!AAC	1	1492
HpaII	C!CGG	21	601; 657; 667; 688; 888; 1947; 2634; 2711; 2733; 2761; 2892; 2982; 3049; 3230; 3505; 3513; 3605; 4079; 4269; 4295; 4442
HphI	GGTGANNNNNNN!	4	376; 1323; 3800; 3916
HphI	!NNNNNNNTCACC	3	888; 1846; 2907
Hpy8I	GTN!NAC	14	201; 539; 577; 641; 729; 747; 876; 896; 1266; 1492; 1776; 1793; 1848; 4335
Hpy99I	CGWCG!	10	645; 1144; 1255; 2819; 2847; 3141; 3156; 3433; 3818; 4551
Hpy166II	GTN!NAC	14	201; 539; 577; 641; 729; 747; 876; 896; 1266; 1492; 1776; 1793; 1848; 4335
Hpy188I	TCN!GA	12	585; 609; 1903; 2512; 2696; 3040; 3393; 3494; 3973; 4107; 4460; 4538
Hpy188III	TC!NNGA	26	613; 762; 861; 1038; 1212; 1278; 1384; 2156; 2208; 2521; 2574; 2747; 3063; 3072; 3155; 3211; 3255; 3345; 3378; 3447; 3928; 4002; 4085; 4183; 4281; 4415
HpyAV	CCTTCNNNNNN!	6	768; 855; 984; 3374; 3481; 4160
HpyAV	!NNNNNGAAGG	10	717; 819; 1227; 1962; 2857; 3586; 3602; 3785; 4102; 4412
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 645; 822; 1820; 3109; 3225; 3333; 3656; 4147; 4617; 4688
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 743; 1043; 1133; 1789; 1801; 1844; 1954; 2845; 3032; 3813; 3946
HpyCH4V	TG!CA	23	636; 729; 876; 995; 1089; 1131; 1242; 1478; 1505; 1573; 2290; 2299; 2362; 2371; 2486; 2562; 2621; 2780; 2955; 2969; 4039; 4335; 4702
HpyF3I	C!TNAG	7	606; 2209; 2511; 3392; 3841; 3964; 4373
HpyF10VI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 962; 1001; 1013; 1055; 1134; 1295; 1323; 1956; 1986; 2013; 2055; 2296; 2368; 2419; 2498; 2720; 2804; 2827; 2966; 3089; 3172; 3439; 3626; 3830; 4029; 4601
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 833; 1253; 2729; 3431; 3510
Hsp92II	CATG!	20	304; 364; 681; 717; 735; 972; 1170; 2159; 2299; 2371; 2462; 2603; 2948; 3134; 3165; 3191; 3547; 3931; 4651; 4702
HspAI	G!CGC	26	595; 717; 833; 963; 1047; 1137; 1993; 2001; 2027; 2049; 2058; 2071; 2102; 2721; 2729; 2793; 2830; 3096; 3356; 3532; 3618; 4021; 4130; 4304; 4404; 4471
KasI	G!GCGCC	2	832; 2728
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	649
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	652
Ksp22I	T!GATCA	1	701
KspAI	GTT!AAC	1	1492

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kzo9I	!GATC	23	585; 609; 660; 701; 764; 1280; 1386; 2566; 2570; 2589; 2900; 2978; 3059; 3068; 3146; 3522; 3538; 3897; 3909; 3987; 3995; 4006; 4081
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3073; 3283
LpnI	RGCI!GCY	6	596; 834; 1994; 2002; 2730; 4405
LpnPI	CCDGNNNNNNNNNN!	62	102; 295; 614; 670; 701; 817; 853; 874; 901; 1030; 1051; 1114; 1128; 1159; 1186; 1213; 1297; 1363; 1466; 1771; 1960; 2183; 2221; 2237; 2277; 2332; 2349; 2449; 2534; 2647; 2724; 2746; 2769; 2905; 2919; 2938; 2995; 3062; 3112; 3128; 3185; 3243; 3452; 3518; 3542; 3618; 3707; 3810; 3843; 4074; 4092; 4238; 4258; 4282; 4308; 4357; 4455; 4500; 4530; 4609; 4634; 4671
LpnPI	!NNNNNNNNNNNNNNCHGG	54	75; 268; 552; 586; 642; 673; 873; 942; 1003; 1135; 1165; 1270; 1345; 1812; 1932; 1989; 2052; 2250; 2262; 2322; 2334; 2566; 2611; 2654; 2696; 2718; 2746; 2793; 2855; 2877; 2967; 3034; 3057; 3101; 3196; 3215; 3240; 3389; 3490; 3533; 3590; 3680; 3783; 3810; 3828; 4064; 4101; 4254; 4280; 4420; 4438; 4473; 4554; 4607
Lsp1109I	GCAGCNNNNNNNN!	8	1016; 1254; 1517; 2802; 2844; 3365; 3818; 4318
Lsp1109I	!NNNNNNNNNNNNNGCTGC	9	1115; 1163; 1232; 2011; 2676; 2860; 2953; 4019; 4225
LweI	GCATCNNNNN!	8	998; 1283; 1545; 2308; 2380; 3028; 3092; 3367
LweI	!NNNNNNNNNNGATGC	6	357; 1076; 2687; 2942; 3158; 4550
MabI	A!CCWGGT	1	2318
MaeI	C!TAG	8	592; 1384; 1578; 1996; 2552; 3567; 3901; 4154
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 743; 1043; 1133; 1789; 1801; 1844; 1954; 2845; 3032; 3813; 3946
MaeIII	!GTNAC	12	61; 148; 497; 1517; 2018; 2030; 2849; 3155; 3845; 4111; 4227; 4290
MalI	GA!TC	23	587; 611; 662; 703; 766; 1282; 1388; 2568; 2572; 2591; 2902; 2980; 3061; 3070; 3148; 3524; 3540; 3899; 3911; 3989; 3997; 4008; 4083
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2153; 3342
MbiI	GAG!CGG	2	1989; 3396
MboI	!GATC	23	585; 609; 660; 701; 764; 1280; 1386; 2566; 2570; 2589; 2900; 2978; 3059; 3068; 3146; 3522; 3538; 3897; 3909; 3987; 3995; 4006; 4081
MboII	GAAGANNNNNNNN!	6	1104; 1985; 2213; 3090; 3300; 3919
MboII	!NNNNNNNTCTTC	5	1026; 3380; 3547; 3747; 3990
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1479
MflI	R!GATCY	11	585; 609; 660; 1280; 2900; 3146; 3538; 3897; 3909; 3995; 4006
MhII	GDGCH!C	16	620; 657; 731; 802; 878; 1060; 1115; 1328; 1920; 2675; 2768; 2842; 3032; 3094; 3804; 4337
MisI	TGG!CCA	1	2811
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2811
MlyI	GAGTCNNNNN!	2	1781; 2213
MlyI	!NNNNNGACTC	6	404; 598; 1374; 1788; 3394; 4271
Mly113I	GG!CGCC	2	833; 2729
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1822
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4254; 4438
MnlI	CCTCNNNNNNN!	7	1448; 2512; 3330; 3536; 3850; 4220; 4544
MnlI	!NNNNNNGAGG	23	541; 702; 729; 762; 789; 822; 903; 939; 972; 1014; 1176; 1408; 1873; 2204; 2482; 2525; 2540; 2580; 2644; 2780; 3137; 3567; 4470
Mph1103I	ATGCA!T	3	2301; 2373; 4704
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	1946; 3229; 3512
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	1	2811
MseI	T!TAA	16	7; 695; 1430; 1491; 1612; 1633; 1644; 1656; 1667; 1684; 1782; 2053; 3872; 3886; 3891; 3943
MslI	CAYNN!NNRTG	5	365; 718; 871; 1165; 3166

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspI	C!CGG	21	601; 657; 667; 688; 888; 1947; 2634; 2711; 2733; 2761; 2892; 2982; 3049; 3230; 3505; 3513; 3605; 4079; 4269; 4295; 4442
Msp20I	TGG!CCA	1	2811
MspA1I	CMG!CKG	7	651; 956; 1245; 2227; 2835; 4064; 4309
MspCI	C!TTAAG	1	1611
MspJI	CNNRNNNNNNNN!	238	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; 699; 712; 726; 742; 756; 774; 792; 807; 824; 852; 873; 900; 919; 932; 946; 969; 990; 1015; 1029; 1050; 1065; 1084; 1102; 1126; 1144; 1158; 1179; 1192; 1212; 1232; 1261; 1275; 1290; 1320; 1335; 1349; 1362; 1389; 1402; 1417; 1436; 1453; 1466; 1507; 1521; 1534; 1552; 1590; 1605; 1623; 1664; 1688; 1708; 1726; 1747; 1770; 1802; 1817; 1839; 1857; 1870; 1891; 1908; 1921; 1934; 1950; 1963; 1993; 2008; 2033; 2051; 2064; 2079; 2103; 2117; 2141; 2166; 2182; 2220; 2236; 2275; 2289; 2303; 2331; 2347; 2361; 2375; 2404; 2417; 2438; 2447; 2469; 2499; 2515; 2533; 2563; 2586; 2610; 2634; 2653; 2681; 2707; 2723; 2736; 2759; 2773; 2793; 2806; 2820; 2839; 2853; 2866; 2882; 2897; 2910; 2926; 2941; 2957; 2982; 3001; 3017; 3030; 3043; 3061; 3075; 3089; 3105; 3127; 3143; 3162; 3184; 3200; 3223; 3242; 3256; 3272; 3286; 3306; 3322; 3335; 3357; 3390; 3404; 3424; 3437; 3451; 3505; 3518; 3541; 3554; 3573; 3590; 3617; 3653; 3686; 3705; 3730; 3751; 3778; 3791; 3808; 3822; 3837; 3853; 3913; 3938; 3954; 3976; 3989; 4003; 4034; 4048; 4073; 4091; 4106; 4119; 4138; 4151; 4166; 4195; 4214; 4232; 4257; 4272; 4291; 4307; 4326; 4344; 4360; 4374; 4393; 4420; 4443; 4465; 4484; 4499; 4512; 4529; 4549; 4576; 4589; 4608; 4633; 4656; 4670; 4683; 4700
MspJI	!NNNNNNNNNNNNYNG	198	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; 673; 691; 718; 740; 760; 779; 802; 826; 847; 866; 886; 905; 929; 955; 978; 999; 1024; 1067; 1087; 1108; 1132; 1153; 1186; 1210; 1235; 1264; 1294; 1313; 1336; 1355; 1381; 1410; 1439; 1481; 1564; 1599; 1626; 1649; 1678; 1722; 1744; 1776; 1812; 1829; 1850; 1887; 1907; 1924; 1941; 1976; 1994; 2012; 2029; 2053; 2075; 2102; 2130; 2156; 2194; 2215; 2232; 2250; 2273; 2294; 2322; 2345; 2366; 2384; 2405; 2422; 2445; 2469; 2489; 2507; 2529; 2560; 2582; 2608; 2627; 2644; 2672; 2691; 2710; 2728; 2746; 2767; 2789; 2813; 2846; 2866; 2884; 2905; 2931; 2958; 2975; 2992; 3009; 3035; 3057; 3079; 3097; 3117; 3136; 3158; 3196; 3216; 3240; 3260; 3280; 3307; 3331; 3364; 3383; 3411; 3433; 3462; 3490; 3515; 3534; 3553; 3574; 3591; 3608; 3639; 3666; 3686; 3709; 3729; 3766; 3783; 3802; 3828; 3848; 3887; 3914; 3933; 3951; 3988; 4006; 4047; 4065; 4091; 4108; 4140; 4169; 4197; 4218; 4241; 4260; 4281; 4299; 4316; 4334; 4360; 4381; 4401; 4421; 4439; 4460; 4486; 4503; 4522; 4541; 4570; 4589; 4607; 4626; 4644; 4662; 4685
MspR9I	CC!NGG	23	90; 283; 657; 658; 688; 689; 889; 1018; 1285; 1360; 2265; 2320; 2337; 2733; 2893; 3116; 3506; 3695; 3798; 4270; 4488; 4501; 4622
MssI	GTTT!AAAC	0	
MunI	CA!AATTG	1	1479
MvaI	CC!WGG	14	90; 283; 1018; 1285; 1360; 2265; 2320; 2337; 3116; 3695; 3798; 4488; 4501; 4622
Mva1269I	GAATGCN!	1	1480
Mva1269I	G!CATTC	1	1573
MvnI	CG!CG	18	60; 651; 719; 1139; 1378; 1653; 2029; 2049; 2073; 2104; 2795; 3096; 3534; 3618; 3681; 3750; 4023; 4604
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 962; 1001; 1013; 1055; 1134; 1295; 1323; 1956; 1986; 2013; 2055; 2296; 2368; 2419; 2498; 2720; 2804; 2827; 2966; 3089; 3172; 3439; 3626; 3830; 4029; 4601
NaeI	GCC!GGC	3	1948; 3231; 3514
NarI	GG!CGCC	2	833; 2729
NciI	CC!SGG	9	657; 658; 688; 689; 889; 2733; 2893; 3506; 4270
NcoI	C!CATGG	3	360; 2458; 3161
NdeI	CA!TATG	1	234
NdeII	!GATC	23	585; 609; 660; 701; 764; 1280; 1386; 2566; 2570; 2589; 2900; 2978; 3059; 3068; 3146; 3522; 3538; 3897; 3909; 3987; 3995; 4006; 4081

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NgoAVIII	GACNNNNNTGANNNNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	1946; 3229; 3512
NheI	G!CTAGC	1	591
NlaIII	CATG!	20	304; 364; 681; 717; 735; 972; 1170; 2159; 2299; 2371; 2462; 2603; 2948; 3134; 3165; 3191; 3547; 3931; 4651; 4702
NlaIV	GGN!NCC	22	467; 647; 655; 662; 801; 834; 1059; 1080; 1112; 1884; 1905; 1917; 2108; 2269; 2341; 2730; 2765; 3613; 3692; 3737; 4580; 4619
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1561; 1876; 3468
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 1066; 4540
Nii3877I	CYCGR!G	5	617; 660; 691; 911; 947
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2518; 2954
NmeAIII	!NNNNNNNNNNNNNNNNNNNCTCGGC	1	2483
NmeDI	RCCGGYNNNNNN!	5	678; 1958; 3060; 3241; 3524
NmeDI	!NNNNNNNNNNNNNRCCGGY	5	653; 1933; 3035; 3216; 3499
NmuCI	!GTSAC	3	2018; 2849; 3155
NotI	GC!GGCCGC	1	1373
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2831
NsiI	ATGCA!T	3	2301; 2373; 4704
NspI	RCATG!Y	5	717; 2299; 2371; 3134; 4651
NspV	TT!CGAA	2	627; 3411
OliI	CACNN!NNGTG	1	871
PabI	GTA!C	10	220; 245; 300; 333; 384; 541; 648; 905; 1322; 3036
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2299; 2371; 3134
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	2155; 3927
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3694; 3797
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2550
PciI	A!CATGT	1	4647
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3073; 3283
PcsI	WCGNNNN!NNNCGW	8	1259; 1328; 3023; 3100; 3343; 3417; 3810; 4328
PctI	GAATGCN!	1	1480
PctI	G!CATTC	1	1573
PdiI	GCC!GGC	3	1948; 3231; 3514
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	5	3214; 3348; 3458; 3495; 4673
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2847
PfIMI	CCANNNN!NTGG	1	1263
PfoI	T!CCNGGA	1	3504
PhoI	GG!CC	28	84; 277; 655; 752; 1079; 1145; 1171; 1193; 1228; 1336; 1375; 1695; 1837; 2492; 2498; 2507; 2550; 2637; 2811; 3202; 3229; 3738; 3795; 3828; 4173; 4607; 4625; 4636
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	2	1037; 3110
PlaDI	!NNNNNNNNNNNNNNNNNNNCTGATG	2	2675; 2930
PleI	GAGTCNNNN!	2	1780; 2212
PleI	!NNNNNGACTC	6	404; 598; 1374; 1788; 3394; 4271
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	1134
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	1	1134
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1811
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3941
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3973
PpiI	!NNNNNNNGAACNNNNNCTC	1	1779
PpsI	GAGTCNNNN!	2	1780; 2212

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpsI	!NNNNNGACTC	6	404; 598; 1374; 1788; 3394; 4271
Ppu10I	A!TGCAT	3	2297; 2369; 4700
Ppu21I	YAC!GTR	4	340; 1134; 1845; 3033
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4647
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1512; 1717
Psp03I	GGWC!C	3	1269; 3248; 3693
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	14	88; 281; 1016; 1283; 1358; 2263; 2318; 2335; 3114; 3693; 3796; 4486; 4499; 4620
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	1	1134
PspEI	G!GTNACC	0	
PspGI	!CCWGG	14	88; 281; 1016; 1283; 1358; 2263; 2318; 2335; 3114; 3693; 3796; 4486; 4499; 4620
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 647; 655; 662; 801; 834; 1059; 1080; 1112; 1884; 1905; 1917; 2108; 2269; 2341; 2730; 2765; 3613; 3692; 3737; 4580; 4619
PspOMI	G!GGCCC	1	653
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 2459; 3458
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2861
PspPI	G!GNCC	13	83; 276; 654; 1078; 1170; 1266; 1335; 1836; 3245; 3690; 3736; 3794; 3827
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNNNN!	3	2282; 2354; 3860
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	2195; 3390
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3830
PstI	CTGCA!G	1	638
PstNI	CAGNNN!CTG	2	3830; 4238
PsuI	R!GATCY	11	585; 609; 660; 1280; 2900; 3146; 3538; 3897; 3909; 3995; 4006
PsyI	GACN!NNGTC	1	2847
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	4	956; 1245; 2227; 2835
RcaI	T!CATGA	2	2155; 3927
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3244
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	1458
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	2	935; 1004
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	10	219; 244; 299; 332; 383; 540; 647; 904; 1321; 3035
RsaNI	G!TAC	10	218; 243; 298; 331; 382; 539; 646; 903; 1320; 3034
RseI	CAYNN!NNRTG	5	365; 718; 871; 1165; 3166
RsrII	CG!GWCCG	1	3245
Rsr2I	CG!GWCCG	1	3245
SacI	GAGCT!C	1	620
SacII	CCGC!GG	1	652
SaI	G!TCGAC	1	639
SapI	GCTTTCN!	0	
SapI	!NNNNGAAGAGC	2	3073; 3283

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SaqAI	T!TAA	16	7; 695; 1430; 1491; 1612; 1633; 1644; 1656; 1667; 1684; 1782; 2053; 3872; 3886; 3891; 3943
SatI	GC!NGC	36	1005; 1129; 1177; 1188; 1191; 1243; 1246; 1373; 1376; 1506; 2025; 2047; 2061; 2499; 2638; 2690; 2701; 2791; 2796; 2833; 2874; 2961; 2967; 3203; 3299; 3340; 3354; 3468; 3807; 3822; 4033; 4239; 4242; 4307; 4450; 4605
Sau96I	G!GNCC	13	83; 276; 654; 1078; 1170; 1266; 1335; 1836; 3245; 3690; 3736; 3794; 3827
Sau3AI	!GATC	23	585; 609; 660; 701; 764; 1280; 1386; 2566; 2570; 2589; 2900; 2978; 3059; 3068; 3146; 3522; 3538; 3897; 3909; 3987; 3995; 4006; 4081
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1781; 2213
SchI	!NNNNNGACTC	6	404; 598; 1374; 1788; 3394; 4271
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	23	90; 283; 657; 658; 688; 689; 889; 1018; 1285; 1360; 2265; 2320; 2337; 2733; 2893; 3116; 3506; 3695; 3798; 4270; 4488; 4501; 4622
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	5	1116; 2307; 2379; 2548; 4490
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2884; 3369
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	16	620; 657; 731; 802; 878; 1060; 1115; 1328; 1920; 2675; 2768; 2842; 3032; 3094; 3804; 4337
SelI	!CGCG	18	58; 649; 717; 1137; 1376; 1651; 2027; 2047; 2071; 2102; 2793; 3094; 3532; 3616; 3679; 3748; 4021; 4602
SetI	ASST!	69	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 701; 728; 746; 818; 853; 940; 958; 976; 1046; 1130; 1136; 1202; 1222; 1238; 1247; 1313; 1319; 1364; 1419; 1440; 1449; 1461; 1510; 1677; 1792; 1804; 1847; 1884; 1934; 1957; 2081; 2229; 2324; 2517; 2630; 2758; 2837; 2848; 2920; 2991; 3035; 3295; 3441; 3485; 3816; 3847; 3906; 3949; 4092; 4113; 4212; 4349; 4364; 4383; 4395; 4439; 4485; 4536
SexAI	A!CCWGGT	1	2318
SfaI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	998; 1283; 1545; 2308; 2380; 3028; 3092; 3367
SfaNI	!NNNNNNNNNNNGATGC	6	357; 1076; 2687; 2942; 3158; 4550
Sfcl	C!TRYAG	6	634; 951; 1341; 2064; 4191; 4382
SfiI	GGCCNNNN!NGGCC	1	2504
SfoI	GGC!GCC	2	834; 2730
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	1	652
SfuI	TT!CGAA	2	627; 3411
SgeI	CNNGNNNNNNNNN!	191	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 699; 717; 730; 744; 766; 780; 798; 816; 834; 852; 873; 900; 919; 942; 955; 969; 990; 1029; 1050; 1065; 1093; 1113; 1127; 1144; 1158; 1179; 1192; 1212; 1236; 1261; 1275; 1290; 1320; 1335; 1349; 1362; 1389; 1436; 1465; 1507; 1590; 1664; 1748; 1770; 1802; 1839; 1857; 1876; 1891; 1933; 1950; 1967; 2002; 2016; 2033; 2055; 2079; 2103; 2168; 2182; 2220; 2236; 2276; 2289; 2308; 2331; 2348; 2361; 2380; 2410; 2431; 2448; 2471; 2506; 2533; 2564; 2586; 2612; 2634; 2653; 2681; 2717; 2736; 2759; 2773; 2793; 2806; 2820; 2839; 2853; 2872; 2904; 2918; 2931; 2957; 2988; 3001; 3018; 3035; 3049; 3066; 3084; 3099; 3127; 3143; 3162; 3184; 3200; 3223; 3242; 3267; 3286; 3306; 3333; 3357; 3390; 3409; 3437; 3451; 3517; 3541; 3556; 3579; 3600; 3617; 3665; 3692; 3706; 3735; 3759; 3792; 3809; 3829; 3842; 3855; 3913; 3940; 3959; 3989; 4014; 4034; 4048; 4073; 4091; 4128; 4166; 4195; 4223; 4237; 4257; 4272; 4293; 4307; 4326; 4344; 4360; 4400; 4420; 4447; 4465; 4486; 4499; 4512; 4529; 4553; 4576; 4608; 4633; 4660; 4682

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNCNG	165	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 673; 691; 718; 740; 760; 781; 802; 826; 847; 874; 893; 916; 943; 964; 1003; 1024; 1067; 1087; 1108; 1132; 1153; 1186; 1210; 1235; 1264; 1294; 1313; 1336; 1363; 1410; 1439; 1481; 1564; 1638; 1722; 1744; 1776; 1813; 1831; 1850; 1907; 1924; 1941; 1976; 1994; 2014; 2034; 2053; 2077; 2142; 2194; 2250; 2282; 2305; 2322; 2354; 2384; 2405; 2422; 2445; 2480; 2507; 2538; 2560; 2586; 2608; 2627; 2655; 2691; 2710; 2733; 2754; 2772; 2789; 2813; 2846; 2878; 2905; 2931; 2962; 2992; 3009; 3035; 3058; 3079; 3101; 3121; 3141; 3158; 3197; 3216; 3241; 3260; 3280; 3307; 3331; 3364; 3383; 3411; 3433; 3491; 3515; 3534; 3553; 3574; 3591; 3639; 3666; 3686; 3709; 3733; 3766; 3783; 3803; 3829; 3887; 3914; 3933; 3963; 3988; 4008; 4047; 4065; 4102; 4140; 4169; 4197; 4218; 4246; 4267; 4300; 4318; 4374; 4394; 4421; 4439; 4460; 4486; 4503; 4527; 4550; 4582; 4607; 4634; 4656; 4685
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	652
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1876; 3663; 4456
SimI	!GACCC	5	106; 1097; 3157; 3725; 3973
SinI	G!GWCC	3	1266; 3245; 3690
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	2	658; 689
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 718; 871; 1165; 3166
SmlI	C!TYRAG	7	613; 619; 1611; 3120; 4002; 4279; 4541
SmoI	C!TYRAG	7	613; 619; 1611; 3120; 4002; 4279; 4541
SmuI	CCCGCNNNN!	9	93; 119; 286; 1345; 2051; 2406; 2427; 3623; 3755
SmuI	!NNNNNNGCGGG	6	644; 1982; 2852; 3389; 3527; 3674
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2299; 2371; 3134
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	12	18; 629; 692; 1479; 1543; 1621; 1647; 1658; 2305; 2377; 2469; 3887
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2550
SsiI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 649; 809; 869; 1002; 1272; 1338; 1376; 2044; 2047; 2061; 2151; 2399; 2411; 2420; 2432; 2442; 2453; 2499; 2638; 2701; 3203; 3248; 3314; 3340; 3465; 3468; 3616; 3748; 4055; 4199; 4695
SsiI	G!CGG	27	370; 403; 528; 651; 1187; 1190; 1372; 1989; 2016; 2104; 2214; 2795; 2859; 2960; 2963; 3243; 3298; 3396; 3534; 3681; 3821; 4064; 4309; 4430; 4449; 4576; 4604
SspI	AAT!ATT	2	1637; 2190
SspDI	G!GCGCC	2	832; 2728
SspD5I	GGTGANNNNNNN!	4	376; 1323; 3800; 3916
SspD5I	!NNNNNNNNTCACC	3	887; 1845; 2906
SstI	GAGCT!C	1	620
SstII	CCGC!GG	1	652
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	23	92; 118; 285; 663; 694; 914; 926; 950; 1088; 1256; 1344; 1928; 2050; 2405; 2426; 2739; 3142; 3281; 3352; 3622; 3754; 3984; 4422
Sth132I	!NNNNNNNNCGGG	21	15; 407; 470; 643; 680; 880; 1929; 1981; 2082; 2809; 2851; 2884; 3388; 3497; 3526; 3673; 3777; 3808; 4261; 4305; 4513
Sth302II	CC!GG	21	602; 658; 668; 689; 889; 1948; 2635; 2712; 2734; 2762; 2893; 2983; 3050; 3231; 3506; 3514; 3606; 4080; 4270; 4296; 4443
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNN!	4	2597; 3054; 3079; 3533
StsI	!NNNNNNNNNNNNNNCATCC	4	843; 900; 984; 2401
StuI	AGG!CCT	1	2550
StyI	C!CWWGG	5	360; 2458; 2551; 3161; 3566

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StyD4I	!CCNGG	23	88; 281; 655; 656; 686; 687; 887; 1016; 1283; 1358; 2263; 2318; 2335; 2731; 2891; 3114; 3504; 3693; 3796; 4268; 4486; 4499; 4620
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 645; 822; 1820; 3109; 3225; 3333; 3656; 4147; 4617; 4688
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 746; 1046; 1136; 1792; 1804; 1847; 1957; 2848; 3035; 3816; 3949
TaqI	T!CGA	17	614; 627; 640; 767; 977; 1277; 1878; 2569; 2842; 2998; 3022; 3058; 3220; 3411; 3456; 3711; 4549
TaqII	GACCGANNNNNNNNNNN!	3	1749; 2766; 3434
TaqII	!NNNNNNNNNTCGGTC	1	3678
TaqII	CACCGANNNNNNNNNNN!	1	817
TaqII	!NNNNNNNNNTGGGTG	3	172; 2633; 3225
TasI	!AATT	12	18; 629; 692; 1479; 1543; 1621; 1647; 1658; 2305; 2377; 2469; 3887
TatI	W!GTACW	4	217; 297; 330; 381
TauI	GCSG!C	19	1190; 1193; 1375; 1378; 2049; 2063; 2501; 2640; 2703; 2798; 2963; 2966; 3205; 3301; 3342; 3470; 3824; 4452; 4607
TfiI	G!AWTC	5	3214; 3348; 3458; 3495; 4673
TliI	C!TCGAG	1	613
TruII	T!TAA	16	7; 695; 1430; 1491; 1612; 1633; 1644; 1656; 1667; 1684; 1782; 2053; 3872; 3886; 3891; 3943
Tru9I	T!TAA	16	7; 695; 1430; 1491; 1612; 1633; 1644; 1656; 1667; 1684; 1782; 2053; 3872; 3886; 3891; 3943
TscAI	CASTGNN!	5	1575; 2858; 3968; 4239; 4252
TseI	G!CWGC	18	1004; 1128; 1176; 1242; 1245; 1505; 2024; 2689; 2790; 2832; 2873; 2966; 3353; 3806; 4032; 4238; 4241; 4306
TsoI	TARCCANNNNNNNNNNN!	2	1701; 2048
TsoI	!NNNNNNNNNTGGYTA	2	1506; 3258
Tsp45I	!GTSAC	3	2018; 2849; 3155
Tsp509I	!AATT	12	18; 629; 692; 1479; 1543; 1621; 1647; 1658; 2305; 2377; 2469; 3887
TspDTI	ATGAANNNNNNNNNNN!	4	694; 1487; 2788; 3492
TspDTI	!NNNNNNNNNTTCAT	4	26; 3206; 3662; 3869
TspEI	!AATT	12	18; 629; 692; 1479; 1543; 1621; 1647; 1658; 2305; 2377; 2469; 3887
TspGWI	ACGGANNNNNNNNNNN!	1	3604
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	2	656; 687
TspRI	CASTGNN!	5	1575; 2858; 3968; 4239; 4252
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2847
Tth111II	CAARCANNNNNNNNNNN!	2	946; 4056
Tth111III	!NNNNNNNNNTGYTTG	3	3164; 4024; 4063
UnbI	!GGNCC	13	82; 275; 653; 1077; 1169; 1265; 1334; 1835; 3244; 3689; 3735; 3793; 3826
Van91I	CCANNNN!NTGG	1	1263
Vha464I	C!TTAAG	1	1611
VneI	G!TGCAC	3	727; 874; 4333
VpaK11AI	!GGWCC	3	1265; 3244; 3689
VpaK11BI	G!GWCC	3	1266; 3245; 3690
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	1	703
XapI	R!AATTY	4	629; 1543; 1647; 1658
XbaI	T!CTAGA	1	1383
XceI	RCATG!Y	5	717; 2299; 2371; 3134; 4651
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	11	585; 609; 660; 1280; 2900; 3146; 3538; 3897; 3909; 3995; 4006
XmaI	C!CCGGG	2	656; 687
XmaJI	C!CTAGG	2	2551; 3566
XmiI	GT!MKAC	1	640

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	8	592; 1384; 1578; 1996; 2552; 3567; 3901; 4154
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2301; 2373; 4704