

pTurboGFP-C vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1508; 1713
AarI	CACCTGCNNNN!	1	1064
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1796; 2752; 4541
AatI	AGG!CCT	1	2546
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1340
AccII	CG!CG	19	60; 959; 1115; 1220; 1351; 1613; 1649; 2025; 2045; 2069; 2100; 2791; 3092; 3530; 3614; 3677; 3746; 4019; 4600
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2827
Acc36I	ACCTGCNNNN!	4	791; 1064; 2993; 3443
Acc36I	!NNNNNNNNGCAGGT	1	2612
Acc65I	G!GTACC	1	1345
AccB1I	G!GYRCC	10	465; 667; 712; 760; 823; 985; 1345; 1878; 2724; 2759
AccB7I	CCANNNN!NTGG	1	798
AccBSI	CCG!CTC	2	2149; 3338
AccBSI	GAG!CGG	3	629; 1985; 3392
AceIII	CAGCTCNNNNNNN!	2	1143; 1681
AceIII	!NNNNNNNNNNGAGCTG	3	552; 679; 1234
AciI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 638; 657; 729; 891; 942; 957; 1032; 1098; 1215; 1218; 1349; 2040; 2043; 2057; 2147; 2395; 2407; 2416; 2428; 2438; 2449; 2495; 2634; 2697; 3199; 3244; 3310; 3336; 3461; 3464; 3612; 3744; 4051; 4195; 4691
AciI	G!CGG	31	370; 403; 528; 629; 701; 704; 836; 875; 914; 1121; 1351; 1985; 2012; 2100; 2210; 2791; 2855; 2956; 2959; 3239; 3294; 3392; 3530; 3677; 3817; 4060; 4305; 4426; 4445; 4572; 4600
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	10	1238; 1368; 1377; 2593; 2904; 3150; 3542; 3901; 3999; 4085
AclWI	!NNNNNGATCC	6	580; 1355; 2969; 3513; 3900; 3997
AcoI	Y!GGCCR	5	954; 2631; 2805; 3196; 3223
AcsI	R!AATTY	4	1329; 1539; 1643; 1654
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	2	2871; 3303
AcuI	!NNNNNNNNNNNNNNCTTCAG	4	756; 918; 1089; 4101
AcvI	CAC!GTG	2	795; 927
AcyI	GR!CGYC	8	122; 175; 258; 444; 761; 2725; 3427; 3506
AdeI	CACNNN!GTG	1	1841
AfaI	GT!AC	10	219; 244; 299; 332; 383; 540; 904; 1264; 1347; 3031
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	20	49; 723; 798; 948; 1221; 1737; 2063; 2455; 2706; 3250; 3531; 3563; 3695; 3730; 3780; 3812; 4165; 4444; 4610; 4628
AfiII	C!TTAAG	0	
AfiIII	A!CRYGT	2	1611; 4643
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	8	975; 1161; 1278; 2136; 2180; 2190; 2603; 4179
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	11	88; 281; 2259; 2314; 2331; 3110; 3689; 3792; 4482; 4495; 4616
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2299; 2371
AlfI	!NNNNNNNNNNNGCANNNNNNTGC	2	2265; 2337
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1807
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1775
AluI	AG!CT	20	566; 693; 932; 938; 1091; 1133; 1248; 1318; 1324; 1504; 1671; 1928; 2223; 2511; 2831; 3289; 4086; 4343; 4389; 4479
AluBI	AG!CT	20	566; 693; 932; 938; 1091; 1133; 1248; 1318; 1324; 1504; 1671; 1928; 2223; 2511; 2831; 3289; 4086; 4343; 4389; 4479
AlwI	GGATCNNNN!	10	1238; 1368; 1377; 2593; 2904; 3150; 3542; 3901; 3999; 4085
AlwI	!NNNNNGATCC	6	580; 1355; 2969; 3513; 3900; 3997
Alw21I	GWGCW!C	6	754; 1055; 1320; 2838; 3028; 4333
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	4	2149; 2567; 3586; 3714
Alw44I	G!TGCAC	1	4329
AlwNI	CAGNNN!CTG	2	3826; 4234
Ama87I	C!YCGRG	4	718; 997; 1313; 1356
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	2	1201; 1357
ApaBI	GCANNNNN!TGC	3	2293; 2365; 3827
ApaLI	G!TGCAC	1	4329
ApeKI	G!CWGC	16	921; 1034; 1088; 1501; 2020; 2685; 2786; 2828; 2869; 2962; 3349; 3802; 4028; 4234; 4237; 4302
ApoI	R!AATTY	4	1329; 1539; 1643; 1654
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3240
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCCGAT	3	3034; 3687; 4525
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3124
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	1250; 2553
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	2	975; 3295
ArsI	GACNNNNNTTYGNNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 648; 963; 1011; 1026; 1078; 1231; 1310; 1361; 1370; 1383; 2563; 2567; 2586; 2897; 2975; 3056; 3065; 3143; 3519; 3535; 3894; 3906; 3984; 3992; 4003; 4078
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2843
Asp700I	GAANN!NNTTC	1	850
Asp718I	G!GTACC	1	1345
AspA2I	C!CTAGG	2	2547; 3562
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	24	597; 763; 1115; 1168; 1991; 1999; 2025; 2047; 2056; 2069; 2100; 2719; 2727; 2791; 2828; 3094; 3354; 3530; 3616; 4019; 4128; 4302; 4402; 4469
AspS9I	G!GNCC	11	83; 276; 726; 1198; 1354; 1832; 3241; 3686; 3732; 3790; 3823
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	1327; 3407
AsuC2I	CC!SGG	7	1285; 1357; 1358; 2729; 2889; 3502; 4266
AsuHPI	GGTGANNNNNNNNN!	5	376; 990; 1312; 3796; 3912
AsuHPI	!NNNNNNNTCACC	5	654; 1008; 1086; 1842; 2903
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	718; 997; 1313; 1356
AvaII	G!GWCC	2	3241; 3686
AviII	TGC!GCA	1	2827
AvrII	C!CTAGG	2	2547; 3562
AxyI	CC!TNAGG	2	2205; 3837
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	7	715; 988; 1201; 1357; 2671; 2764; 4333
BalI	TGG!CCA	1	2807
BamHI	G!GATCC	1	1360
BanI	G!GYRCC	10	465; 667; 712; 760; 823; 985; 1345; 1878; 2724; 2759
BanII	GRGCY!C	6	1201; 1320; 1357; 1916; 3090; 3800
BanIII	AT!CGAT	1	2565
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	798
BauI	C!ACGAG	2	3443; 4470
BauI	C!TCGTG	1	3317
BbeI	GGCGC!C	2	764; 2728
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	2	795; 927
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2295; 2367; 3130
BbvI	GCAGCNNNNNNNN!	8	1046; 1100; 1513; 2798; 2840; 3361; 3814; 4314
BbvI	!NNNNNNNNNNNGCTGC	7	908; 2007; 2672; 2856; 2949; 4015; 4221
Bbv12I	GWGCW!C	6	754; 1055; 1320; 2838; 3028; 4333
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	871; 1177; 1855; 2419; 2945; 3447
BccI	!NNNNNGATGG	6	792; 975; 1078; 1823; 2603; 3031
BceAI	ACGGCNNNNNNNNNN!	7	693; 822; 888; 927; 1134; 3151; 3638
BceAI	!NNNNNNNNNNNGCCGT	3	1866; 2684; 4143
Bcefl	ACGGCNNNNNNNNNN!	7	693; 822; 888; 927; 1134; 3151; 3638
Bcefl	!NNNNNNNNNNNGCCGT	3	1867; 2685; 4144
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2154; 2944; 4445
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1382
BcnI	CC!SGG	7	1285; 1357; 1358; 2729; 2889; 3502; 4266
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	1405; 4578
BdaI	!NNNNNNNNNNTGANNNNNNTCA	2	1371; 4544
BfaI	C!TAG	8	592; 1373; 1574; 1992; 2548; 3563; 3897; 4150
BfiI	ACTGGGNNNNN!	1	2674
BfiI	!NNNCCCAGT	2	289; 2426
BfmI	C!TRYAG	6	1128; 1186; 1334; 2060; 4187; 4378
BfoI	RGCGC!Y	7	598; 764; 1169; 1992; 2000; 2728; 4403
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2154; 2944; 4445
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	791; 1064; 2993; 3443
BfuAI	!NNNNNNNGCAGGT	1	2612
BfuCI	!GATC	27	585; 647; 962; 1010; 1025; 1077; 1230; 1309; 1360; 1369; 1382; 2562; 2566; 2585; 2896; 2974; 3055; 3064; 3142; 3518; 3534; 3893; 3905; 3983; 3991; 4002; 4077
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2500
BglII	A!GATCT	1	1309
BisI	GC!NGC	41	630; 657; 702; 729; 837; 876; 915; 922; 957; 1035; 1089; 1122; 1218; 1502; 2021; 2043; 2057; 2495; 2634; 2686; 2697; 2787; 2792; 2829; 2870; 2957; 2960; 2963; 3199; 3295; 3336; 3350; 3464; 3803; 3818; 4029; 4235; 4238; 4303; 4446; 4601
BlnI	C!CTAGG	2	2547; 3562

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BlpI	GC!TNAGC	1	787
BlsI	GCN!GC	41	631; 658; 703; 730; 838; 877; 916; 923; 958; 1036; 1090; 1123; 1219; 1503; 2022; 2044; 2058; 2496; 2635; 2687; 2698; 2788; 2793; 2830; 2871; 2958; 2961; 2964; 3200; 3296; 3337; 3351; 3465; 3804; 3819; 4030; 4236; 4239; 4304; 4447; 4602
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	3241; 3686
Bme1390I	CC!NGG	18	90; 283; 1285; 1357; 1358; 2261; 2316; 2333; 2729; 2889; 3112; 3502; 3691; 3794; 4266; 4484; 4497; 4618
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	718; 997; 1313; 1356
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	84; 277; 727; 1199; 1355; 1833; 3242; 3687; 3733; 3791; 3824
BmiI	GGN!NCC	24	467; 669; 714; 762; 825; 987; 1198; 1199; 1347; 1355; 1362; 1880; 1901; 1913; 2104; 2265; 2337; 2726; 2761; 3609; 3688; 3733; 4576; 4615
BmrI	ACTGGGNNNNN!	1	2674
BmrI	!NNNNCCCAGT	2	289; 2426
BmrFI	CC!NGG	18	90; 283; 1285; 1357; 1358; 2261; 2316; 2333; 2729; 2889; 3112; 3502; 3691; 3794; 4266; 4484; 4497; 4618
BmsI	GCATCNNNNN!	10	668; 902; 1190; 1262; 1541; 2304; 2376; 3024; 3088; 3363
BmsI	!NNNNNNNNNGATGC	6	357; 1278; 2683; 2938; 3154; 4546
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2674
BmuI	!NNNNCCCAGT	2	289; 2426
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2514; 3413
BpI	!NNNNNNNGAGNNNNNCTC	2	2482; 3381
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3565
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3508
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1327; 3407
Bpu1102I	GC!TNAGC	1	787
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4019; 4558
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	1304; 3101; 4260
BpuMI	CC!SGG	7	1285; 1357; 1358; 2729; 2889; 3502; 4266
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3714
Bsa29I	AT!CGAT	1	2565
BsaAI	YAC!GTR	5	340; 795; 927; 1841; 3029
BsaBI	GATNN!NNATC	3	1076; 1387; 2584
BsaHI	GR!CGYC	8	122; 175; 258; 444; 761; 2725; 3427; 3506
BsaJI	C!CNNGG	24	360; 611; 641; 998; 1046; 1064; 1136; 1283; 1349; 1356; 2259; 2331; 2454; 2489; 2498; 2547; 2888; 3157; 3562; 3689; 3690; 3792; 3793; 4483
BsaMI	GAATGCN!	1	1476
BsaMI	G!CATTC	1	1569
BsaWI	W!CCGGW	6	600; 1366; 2756; 3600; 4290; 4437
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	1147; 1805
BsaXI	!NNNNNNNGGAGNNNNNNGT	1	637
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	667
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	1117; 1775
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	2	911; 1265
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	2	1726; 3633
Bsc4I	CCNNNNN!NNGG	20	49; 723; 798; 948; 1221; 1737; 2063; 2455; 2706; 3250; 3531; 3563; 3695; 3730; 3780; 3812; 4165; 4444; 4610; 4628
BscAI	GCATCNNNN!	10	667; 901; 1189; 1261; 1540; 2303; 2375; 3023; 3087; 3362
BscAI	!NNNNNGATGC	6	360; 1281; 2686; 2941; 3157; 4549
BseI	ACTGGN!	3	2669; 2870; 4116

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BseI	C!CAGT	5	295; 1754; 2432; 4228; 4241
Bse8I	GATNN!NNATC	3	1076; 1387; 2584
Bse21I	CC!TNAGG	2	2205; 3837
Bse118I	R!CCGGY	9	600; 664; 952; 988; 1297; 1942; 3044; 3225; 3508
BseAI	T!CCGGA	0	
BseBI	CC!WGG	11	90; 283; 2261; 2316; 2333; 3112; 3691; 3794; 4484; 4497; 4618
BseCI	AT!CGAT	1	2565
BseDI	C!CNNGG	24	360; 611; 641; 998; 1046; 1064; 1136; 1283; 1349; 1356; 2259; 2331; 2454; 2489; 2498; 2547; 2888; 3157; 3562; 3689; 3690; 3792; 3793; 4483
Bse3DI	GCAATGNN!	1	2958
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	6	1089; 1293; 2585; 3042; 3067; 3521
BseGI	!CATCC	4	1028; 1169; 1181; 2411
BseJI	GATNN!NNATC	3	1076; 1387; 2584
BseLI	CCNNNNN!NNGG	20	49; 723; 798; 948; 1221; 1737; 2063; 2455; 2706; 3250; 3531; 3563; 3695; 3730; 3780; 3812; 4165; 4444; 4610; 4628
BseMI	GCAATGNN!	1	2958
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	3851
BseMII	!NNNNNNNNCTGAG	6	778; 2196; 2498; 3379; 3951; 4360
BseNI	ACTGGN!	3	2669; 2870; 4116
BseNI	C!CAGT	5	295; 1754; 2432; 4228; 4241
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1240; 2543
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI:C	7	715; 988; 1201; 1357; 2671; 2764; 4333
BseXI	GCAGCNNNNNNNN!	8	1046; 1100; 1513; 2798; 2840; 3361; 3814; 4314
BseXI	!NNNNNNNNNNNGCTGC	7	908; 2007; 2672; 2856; 2949; 4015; 4221
BseX3I	C!GGCCG	2	954; 2631
BseYI	C!CCAGC	5	832; 1177; 2268; 2340; 4339
BseYI	G!CTGGG	2	1248; 3229
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	3	841; 907; 1042
Bsh1236I	CG!CG	19	60; 959; 1115; 1220; 1351; 1613; 1649; 2025; 2045; 2069; 2100; 2791; 3092; 3530; 3614; 3677; 3746; 4019; 4600
Bsh1285I	CGRY!CG	4	605; 957; 2634; 4309
BshFI	GG!CC	25	84; 277; 632; 728; 952; 956; 1199; 1355; 1691; 1833; 2488; 2494; 2503; 2546; 2633; 2807; 3198; 3225; 3734; 3791; 3824; 4169; 4603; 4621; 4632
BshNI	G!GYRCC	10	465; 667; 712; 760; 823; 985; 1345; 1878; 2724; 2759
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	2565
BsiEI	CGRY!CG	4	605; 957; 2634; 4309
BsiHKAI	GWGCW!C	6	754; 1055; 1320; 2838; 3028; 4333
BsiHKCI	C!YCGRG	4	718; 997; 1313; 1356
BsiSI	C!CGG	24	601; 665; 953; 989; 1285; 1298; 1357; 1367; 1943; 2630; 2707; 2729; 2757; 2888; 2978; 3045; 3226; 3501; 3509; 3601; 4075; 4265; 4291; 4438
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	20	49; 723; 798; 948; 1221; 1737; 2063; 2455; 2706; 3250; 3531; 3563; 3695; 3730; 3780; 3812; 4165; 4444; 4610; 4628
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2876; 3408; 3517
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2241; 2313; 2377; 3672
BsmI	GAATGCN!	1	1476
BsmI	G!CATTC	1	1569
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	4	2149; 2567; 3586; 3714
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2876; 3408; 3517
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2241; 2313; 2377; 3672
BsnI	GG!CC	25	84; 277; 632; 728; 952; 956; 1199; 1355; 1691; 1833; 2488; 2494; 2503; 2546; 2633; 2807; 3198; 3225; 3734; 3791; 3824; 4169; 4603; 4621; 4632
Bso31I	GGTCTCN!	0	

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Bso31I	!NNNNNGAGACC	1	3714
BsoBI	C!YCGRG	4	718; 997; 1313; 1356
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	6	360; 611; 641; 1064; 2454; 3157
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3528
Bsp24I	!NNNNNNCCANNNNNNGTC	2	3949; 4127
Bsp24I	CCANNNNNNGTCNNNNNNNNNN!	2	3981; 4159
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3496
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1327; 3407
Bsp120I	G!GGCCC	2	1197; 1353
Bsp143I	!GATC	27	585; 647; 962; 1010; 1025; 1077; 1230; 1309; 1360; 1369; 1382; 2562; 2566; 2585; 2896; 2974; 3055; 3064; 3142; 3518; 3534; 3893; 3905; 3983; 3991; 4002; 4077
Bsp1286I	GDGCH!C	15	715; 754; 988; 1055; 1201; 1320; 1357; 1916; 2671; 2764; 2838; 3028; 3090; 3800; 4333
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	1	787
BspACI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 638; 657; 729; 891; 942; 957; 1032; 1098; 1215; 1218; 1349; 2040; 2043; 2057; 2147; 2395; 2407; 2416; 2428; 2438; 2449; 2495; 2634; 2697; 3199; 3244; 3310; 3336; 3461; 3464; 3612; 3744; 4051; 4195; 4691
BspACI	G!CGG	31	370; 403; 528; 629; 701; 704; 836; 875; 914; 1121; 1351; 1985; 2012; 2100; 2210; 2791; 2855; 2956; 2959; 3239; 3294; 3392; 3530; 3677; 3817; 4060; 4305; 4426; 4445; 4572; 4600
BspCNI	CTCAGNNNNNNNN!	1	3850
BspCNI	!NNNNNNCTGAG	6	779; 2197; 2499; 3380; 3952; 4361
BspDI	AT!CGAT	1	2565
BspD6I	GACTCNNNN!	4	418; 1798; 3404; 4281
BspD6I	!NNNNNGAGTC	2	1761; 2193
BspEI	T!CCGGA	0	
BspFNI	CG!CG	19	60; 959; 1115; 1220; 1351; 1613; 1649; 2025; 2045; 2069; 2100; 2791; 3092; 3530; 3614; 3677; 3746; 4019; 4600
BspHI	T!CATGA	2	2151; 3923
BspLI	GGN!NCC	24	467; 669; 714; 762; 825; 987; 1198; 1199; 1347; 1355; 1362; 1880; 1901; 1913; 2104; 2265; 2337; 2726; 2761; 3609; 3688; 3733; 4576; 4615
BspMI	ACCTGCNNNN!	4	791; 1064; 2993; 3443
BspMI	!NNNNNNNGCAGGT	1	2612
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	10	1238; 1368; 1377; 2593; 2904; 3150; 3542; 3901; 3999; 4085
BspPI	!NNNNNGATCC	6	580; 1355; 2969; 3513; 3900; 3997
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	742; 3069; 3279
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1327; 3407
BspT107I	G!GYRCC	10	465; 667; 712; 760; 823; 985; 1345; 1878; 2724; 2759
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3714
BsrI	ACTGGN!	3	2669; 2870; 4116
BsrI	C!CAGT	5	295; 1754; 2432; 4228; 4241
BsrBI	CCG!CTC	2	2149; 3338
BsrBI	GAG!CGG	3	629; 1985; 3392
BsrDI	GCAATGNN!	1	2958
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	9	600; 664; 952; 988; 1297; 1942; 3044; 3225; 3508
BsrGI	T!GTACA	0	
BsrSI	ACTGGN!	3	2669; 2870; 4116
BsrSI	C!CAGT	5	295; 1754; 2432; 4228; 4241
BssAI	R!CCGGY	9	600; 664; 952; 988; 1297; 1942; 3044; 3225; 3508
BssECI	C!CNNGG	24	360; 611; 641; 998; 1046; 1064; 1136; 1283; 1349; 1356; 2259; 2331; 2454; 2489; 2498; 2547; 2888; 3157; 3562; 3689; 3690; 3792; 3793; 4483
BssHII	G!CGCGC	0	
BssKI	!CCNGG	18	88; 281; 1283; 1355; 1356; 2259; 2314; 2331; 2727; 2887; 3110; 3500; 3689; 3792; 4264; 4482; 4495; 4616

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssMI	!GATC	27	585; 647; 962; 1010; 1025; 1077; 1230; 1309; 1360; 1369; 1382; 2562; 2566; 2585; 2896; 2974; 3055; 3064; 3142; 3518; 3534; 3893; 3905; 3983; 3991; 4002; 4077
BssNI	GR!CGYC	8	122; 175; 258; 444; 761; 2725; 3427; 3506
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3443; 4470
BssSI	C!TCGTG	1	3317
BssT1I	C!CWWGG	8	360; 611; 641; 1064; 2454; 2547; 3157; 3562
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	742; 2192; 3069; 3279
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 761; 2725; 3427; 3506
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	2292; 2364; 3826
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	2	1327; 3407
Bst2BI	C!ACGAG	2	3443; 4470
Bst2BI	C!TCGTG	1	3317
BstBAI	YAC!GTR	5	340; 795; 927; 1841; 3029
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 1047; 1345; 1816; 3105; 3221; 3329; 3652; 4143; 4613; 4684
BstC8I	GCN!NGC	34	86; 279; 593; 638; 860; 919; 954; 1111; 1271; 1353; 1944; 1987; 2001; 2274; 2293; 2346; 2365; 2619; 2805; 3024; 3090; 3096; 3128; 3169; 3173; 3227; 3510; 3697; 3744; 3800; 3822; 4033; 4593; 4630
BstDEI	C!TNAG	7	787; 2205; 2507; 3388; 3837; 3960; 4369
BstDSI	C!CRYGG	9	360; 611; 641; 1046; 1064; 1136; 1349; 2454; 3157
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	6	1089; 1293; 2585; 3042; 3067; 3521
BstF5I	!CATCC	4	1028; 1169; 1181; 2411
BstFNI	CG!CG	19	60; 959; 1115; 1220; 1351; 1613; 1649; 2025; 2045; 2069; 2100; 2791; 3092; 3530; 3614; 3677; 3746; 4019; 4600
BstH2I	RGCGC!Y	7	598; 764; 1169; 1992; 2000; 2728; 4403
BstHHI	GCG!C	24	597; 763; 1115; 1168; 1991; 1999; 2025; 2047; 2056; 2069; 2100; 2719; 2727; 2791; 2828; 3094; 3354; 3530; 3616; 4019; 4128; 4302; 4402; 4469
BstKTI	GAT!C	27	588; 650; 965; 1013; 1028; 1080; 1233; 1312; 1363; 1372; 1385; 2565; 2569; 2588; 2899; 2977; 3058; 3067; 3145; 3521; 3537; 3896; 3908; 3986; 3994; 4005; 4080
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	4	2149; 2567; 3586; 3714
BstMBI	!GATC	27	585; 647; 962; 1010; 1025; 1077; 1230; 1309; 1360; 1369; 1382; 2562; 2566; 2585; 2896; 2974; 3055; 3064; 3142; 3518; 3534; 3893; 3905; 3983; 3991; 4002; 4077
BstMCI	CGRY!CG	4	605; 957; 2634; 4309
BstMWI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 626; 665; 710; 758; 965; 1097; 1121; 1952; 1982; 2009; 2051; 2292; 2364; 2415; 2494; 2716; 2800; 2823; 2962; 3085; 3168; 3435; 3622; 3826; 4025; 4597
BstNI	CC!WGG	11	90; 283; 2261; 2316; 2333; 3112; 3691; 3794; 4484; 4497; 4618
BstNSI	RCATG!Y	5	1155; 2295; 2367; 3130; 4647
BstOI	CC!WGG	11	90; 283; 2261; 2316; 2333; 3112; 3691; 3794; 4484; 4497; 4618
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	18	88; 281; 1283; 1355; 1356; 2259; 2314; 2331; 2727; 2887; 3110; 3500; 3689; 3792; 4264; 4482; 4495; 4616
BstSFI	C!TRYAG	6	1128; 1186; 1334; 2060; 4187; 4378
BstSLI	GKGC!C	7	715; 988; 1201; 1357; 2671; 2764; 4333
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 959; 1115; 1220; 1351; 1613; 1649; 2025; 2045; 2069; 2100; 2791; 3092; 3530; 3614; 3677; 3746; 4019; 4600
Bst2UI	CC!WGG	11	90; 283; 2261; 2316; 2333; 3112; 3691; 3794; 4484; 4497; 4618
BstV1I	GCAGCNNNNNNN!	8	1046; 1100; 1513; 2798; 2840; 3361; 3814; 4314
BstV1I	!NNNNNNNNNNNGCTGC	7	908; 2007; 2672; 2856; 2949; 4015; 4221
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	11	585; 1309; 1360; 1369; 2896; 3142; 3534; 3893; 3905; 3991; 4002
BstYI	R!GATCY	11	585; 1309; 1360; 1369; 2896; 3142; 3534; 3893; 3905; 3991; 4002
BstZI	C!GGCCG	2	954; 2631
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNN!	3	2154; 2944; 4445
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2565
Bsu36I	CC!TNAGG	2	2205; 3837
BsuRI	GG!CC	25	84; 277; 632; 728; 952; 956; 1199; 1355; 1691; 1833; 2488; 2494; 2503; 2546; 2633; 2807; 3198; 3225; 3734; 3791; 3824; 4169; 4603; 4621; 4632
BsuTUI	AT!CGAT	1	2565
BtgI	C!CRYGG	9	360; 611; 641; 1046; 1064; 1136; 1349; 2454; 3157
BtgZI	GCGATGNNNNNNNNN!	2	1842; 3177
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 2996; 3340
BthCI	GCNG!C	41	632; 659; 704; 731; 839; 878; 917; 924; 959; 1037; 1091; 1124; 1220; 1504; 2023; 2045; 2059; 2497; 2636; 2688; 2699; 2789; 2794; 2831; 2872; 2959; 2962; 2965; 3201; 3297; 3338; 3352; 3466; 3805; 3820; 4031; 4237; 4240; 4305; 4448; 4603
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1564
BtsCI	GGATGNN!	6	1089; 1293; 2585; 3042; 3067; 3521
BtsCI	!CATCC	4	1028; 1169; 1181; 2411
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	791; 1064; 2993; 3443
BveI	!NNNNNNNNNGCAGGT	1	2612
Cac8I	GCN!NGC	34	86; 279; 593; 638; 860; 919; 954; 1111; 1271; 1353; 1944; 1987; 2001; 2274; 2293; 2346; 2365; 2619; 2805; 3024; 3090; 3096; 3128; 3169; 3173; 3227; 3510; 3697; 3744; 3800; 3822; 4033; 4593; 4630
CaiI	CAGNNN!CTG	2	3826; 4234
CciI	T!CATGA	2	2151; 3923
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 897; 1257; 3014; 3019; 3217; 3358
CdiI	C!GATG	2	1828; 3163
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNN!	2	729; 4597
CdpI	!NNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2386; 2428
CelII	GC!TNAGC	1	787
CfoI	GCG!C	24	597; 763; 1115; 1168; 1991; 1999; 2025; 2047; 2056; 2069; 2100; 2719; 2727; 2791; 2828; 3094; 3354; 3530; 3616; 4019; 4128; 4302; 4402; 4469
CfrI	Y!GGCCR	5	954; 2631; 2805; 3196; 3223
Cfr9I	C!CCGGG	1	1356
Cfr10I	R!CCGGY	9	600; 664; 952; 988; 1297; 1942; 3044; 3225; 3508
Cfr13I	G!GNCC	11	83; 276; 726; 1198; 1354; 1832; 3241; 3686; 3732; 3790; 3823
Cfr42I	CCGC!GG	1	1352
ChaI	GATC!	27	589; 651; 966; 1014; 1029; 1081; 1234; 1313; 1364; 1373; 1386; 2566; 2570; 2589; 2900; 2978; 3059; 3068; 3146; 3522; 3538; 3897; 3909; 3987; 3995; 4006; 4081
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNN!	4	2542; 3982; 4082; 4160
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2209; 2304; 3496; 4046; 4601
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNN!	7	98; 291; 2243; 2338; 3530; 4080; 4635
CjeI	!NNNNNNNNCCANNNNNNGT	4	2508; 3948; 4048; 4126
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNN!	2	3982; 4160
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 3496; 4095
CjePI	GANNNNNNNTGGNNNNNNNNNNNNN!	3	290; 3529; 4128
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	3949; 4127
Clal	AT!CGAT	1	2565
CpoI	CG!GWCCG	1	3241
CseI	GACGCNNNNN!	3	526; 3435; 3514
CseI	!NNNNNNNNNNNGCGTC	3	2058; 3953; 4531

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CsiI	A!CCWGGT	1	2314
CspI	CG!GWCCG	1	3241
Csp6I	G!TAC	10	218; 243; 298; 331; 382; 539; 903; 1263; 1346; 3030
Csp45I	TT!CGAA	2	1327; 3407
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	2005; 3614
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	21	301; 361; 612; 642; 732; 1065; 1152; 1203; 2152; 2292; 2364; 2455; 2596; 2941; 3127; 3158; 3184; 3540; 3924; 4644; 4695
CviJI	RG!CY	95	42; 84; 93; 277; 566; 632; 693; 728; 776; 791; 803; 809; 839; 878; 932; 938; 952; 956; 992; 1091; 1109; 1124; 1133; 1148; 1199; 1248; 1318; 1324; 1355; 1394; 1504; 1671; 1691; 1833; 1914; 1928; 1942; 2223; 2264; 2336; 2459; 2488; 2494; 2503; 2511; 2534; 2546; 2552; 2633; 2650; 2658; 2685; 2710; 2794; 2803; 2807; 2831; 2869; 2945; 2962; 2981; 3044; 3088; 3098; 3115; 3198; 3225; 3229; 3266; 3289; 3305; 3485; 3512; 3573; 3695; 3734; 3791; 3798; 3805; 3824; 3835; 4086; 4115; 4158; 4169; 4234; 4313; 4338; 4343; 4389; 4479; 4577; 4603; 4621; 4632
CviKI-1	RG!CY	95	42; 84; 93; 277; 566; 632; 693; 728; 776; 791; 803; 809; 839; 878; 932; 938; 952; 956; 992; 1091; 1109; 1124; 1133; 1148; 1199; 1248; 1318; 1324; 1355; 1394; 1504; 1671; 1691; 1833; 1914; 1928; 1942; 2223; 2264; 2336; 2459; 2488; 2494; 2503; 2511; 2534; 2546; 2552; 2633; 2650; 2658; 2685; 2710; 2794; 2803; 2807; 2831; 2869; 2945; 2962; 2981; 3044; 3088; 3098; 3115; 3198; 3225; 3229; 3266; 3289; 3305; 3485; 3512; 3573; 3695; 3734; 3791; 3798; 3805; 3824; 3835; 4086; 4115; 4158; 4169; 4234; 4313; 4338; 4343; 4389; 4479; 4577; 4603; 4621; 4632
CviQI	G!TAC	10	218; 243; 298; 331; 382; 539; 903; 1263; 1346; 3030
DdeI	C!TNAG	7	787; 2205; 2507; 3388; 3837; 3960; 4369
DinI	GGC!GCC	2	762; 2726
DpnI	GA!TC	27	587; 649; 964; 1012; 1027; 1079; 1232; 1311; 1362; 1371; 1384; 2564; 2568; 2587; 2898; 2976; 3057; 3066; 3144; 3520; 3536; 3895; 3907; 3985; 3993; 4004; 4079
DpnII	!GATC	27	585; 647; 962; 1010; 1025; 1077; 1230; 1309; 1360; 1369; 1382; 2562; 2566; 2585; 2896; 2974; 3055; 3064; 3142; 3518; 3534; 3893; 3905; 3983; 3991; 4002; 4077
DraI	TTT!AAA	3	1427; 3869; 3888
DraII	RG!GNCCY	2	1197; 3823
DraIII	CACNNN!GTG	1	1841
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	266; 4205
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	1796; 2752; 4541
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1796; 2752; 4541
EaeI	Y!GGCCR	5	954; 2631; 2805; 3196; 3223
EagI	C!GGCCG	2	954; 2631
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	4	742; 2192; 3069; 3279
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	4	742; 2192; 3069; 3279
EciI	GGCGGANNNNNNNNNNNN!	5	719; 2225; 3254; 4441; 4587
EciI	!NNNNNNNNNTCCGCC	5	496; 1204; 2396; 2417; 2438
Ecl136II	GAG!CTC	1	1318
EclXI	C!GGCCG	2	954; 2631
Eco24I	GRGCY!C	6	1201; 1320; 1357; 1916; 3090; 3800
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	3714
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3241; 3686

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	954; 2631
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	2	2871; 3303
Eco57I	!NNNNNNNNNNNNNNNCTTCAG	4	756; 918; 1089; 4101
Eco72I	CAC!GTG	2	795; 927
Eco81I	CC!TNAGG	2	2205; 3837
Eco88I	C!YCGRG	4	718; 997; 1313; 1356
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	8	360; 611; 641; 1064; 2454; 2547; 3157; 3562
Eco147I	AGG!CCT	1	2546
EcoHI	!CCSGG	7	1283; 1355; 1356; 2727; 2887; 3500; 4264
EcoICRI	GAG!CTC	1	1318
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	3	2871; 3303; 3565
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	756; 918; 1089; 3508; 4101
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	1197; 3823
EcoRI	G!AATTC	1	1329
EcoRII	!CCWGG	11	88; 281; 2259; 2314; 2331; 3110; 3689; 3792; 4482; 4495; 4616
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	8	360; 611; 641; 1064; 2454; 2547; 3157; 3562
EcoT22I	ATGCA!T	3	2297; 2369; 4700
EcoT38I	GRGCY!C	6	1201; 1320; 1357; 1916; 3090; 3800
Eco53kI	GAG!CTC	1	1318
EgeI	GGC!GCC	2	762; 2726
EheI	GGC!GCC	2	762; 2726
ErhI	C!CWWGG	8	360; 611; 641; 1064; 2454; 2547; 3157; 3562
EsaBC3I	TC!GA	17	651; 690; 897; 1315; 1328; 1341; 1875; 2566; 2839; 2995; 3019; 3055; 3217; 3408; 3453; 3708; 4546
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	21	304; 364; 615; 645; 735; 1068; 1155; 1206; 2155; 2295; 2367; 2458; 2599; 2944; 3130; 3161; 3187; 3543; 3927; 4647; 4698
Fail	YA!TR	57	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 643; 733; 1066; 1153; 1204; 1387; 1397; 1463; 1508; 1713; 2141; 2153; 2284; 2293; 2356; 2365; 2389; 2456; 2480; 2597; 2661; 2942; 2967; 3128; 3159; 3185; 3257; 3473; 3541; 3619; 3671; 3832; 3849; 3851; 3853; 3925; 4203; 4392; 4508; 4581; 4645; 4696
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	1	3065
FalI	!NNNNNNNNAAGNNNNNCTT	1	3033
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2876; 3408; 3517
FaqI	!NNNNNNNNNNNNNGTCCC	4	2241; 2313; 2377; 3672
FatI	!CATG	21	300; 360; 611; 641; 731; 1064; 1151; 1202; 2151; 2291; 2363; 2454; 2595; 2940; 3126; 3157; 3183; 3539; 3923; 4643; 4694
FauI	CCCGCNNNN!	11	93; 119; 286; 645; 898; 1105; 2047; 2402; 2423; 3619; 3751
FauI	!NNNNNNGCGGG	6	1344; 1978; 2848; 3385; 3523; 3670
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	1382
FblI	GT!MKAC	1	1340
FmuI	GGNC!C	11	86; 279; 729; 1201; 1357; 1835; 3244; 3689; 3735; 3793; 3826
Fnu4HI	GC!NGC	41	630; 657; 702; 729; 837; 876; 915; 922; 957; 1035; 1089; 1122; 1218; 1502; 2021; 2043; 2057; 2495; 2634; 2686; 2697; 2787; 2792; 2829; 2870; 2957; 2960; 2963; 3199; 3295; 3336; 3350; 3464; 3803; 3818; 4029; 4235; 4238; 4303; 4446; 4601
FokI	GGATGNNNNNNNN!	6	1096; 1300; 2592; 3049; 3074; 3528
FokI	!NNNNNNNNNNNNNCATCC	3	1015; 1156; 2398
FriOI	GRGCY!C	6	1201; 1320; 1357; 1916; 3090; 3800
FseI	GGCCGG!CC	1	956
FspI	TGC!GCA	1	2827
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1373; 1574; 1992; 2548; 3563; 3897; 4150

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	158	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 646; 670; 684; 729; 750; 768; 783; 805; 829; 844; 862; 876; 897; 955; 970; 1002; 1032; 1056; 1075; 1110; 1149; 1182; 1198; 1213; 1228; 1257; 1279; 1296; 1311; 1362; 1377; 1408; 1447; 1461; 1602; 1697; 1721; 1744; 1767; 1785; 1807; 1828; 1847; 1866; 1895; 1916; 1930; 1956; 2044; 2070; 2119; 2160; 2178; 2217; 2233; 2271; 2328; 2343; 2400; 2420; 2434; 2451; 2465; 2502; 2517; 2560; 2643; 2710; 2741; 2761; 2776; 2821; 2835; 2901; 2915; 2934; 2950; 2991; 3011; 3058; 3108; 3124; 3144; 3169; 3189; 3212; 3239; 3257; 3283; 3323; 3349; 3373; 3429; 3443; 3471; 3514; 3535; 3570; 3614; 3702; 3726; 3748; 3768; 3784; 3805; 3819; 3838; 3922; 3942; 3970; 3985; 4019; 4061; 4088; 4103; 4148; 4172; 4186; 4208; 4234; 4254; 4278; 4304; 4352; 4371; 4390; 4416; 4451; 4496; 4526; 4540; 4591; 4605; 4630; 4646; 4667; 4696
FspEI	!NNNNNNNNNNNNNGG	126	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 614; 650; 679; 709; 743; 784; 806; 857; 892; 934; 961; 985; 1033; 1051; 1070; 1103; 1123; 1178; 1207; 1234; 1270; 1328; 1352; 1396; 1496; 1565; 1673; 1722; 1744; 1772; 1808; 1853; 1882; 1918; 1937; 1965; 1985; 2048; 2071; 2179; 2211; 2229; 2258; 2301; 2330; 2441; 2470; 2513; 2534; 2562; 2595; 2615; 2640; 2667; 2692; 2714; 2742; 2768; 2789; 2840; 2861; 2879; 2927; 2963; 3019; 3044; 3068; 3097; 3120; 3144; 3170; 3192; 3211; 3236; 3276; 3312; 3377; 3462; 3486; 3515; 3549; 3570; 3590; 3635; 3662; 3681; 3714; 3766; 3797; 3824; 3876; 3974; 4045; 4090; 4151; 4216; 4250; 4276; 4294; 4330; 4400; 4423; 4445; 4469; 4502; 4550; 4585; 4603; 4660
Fsp4HI	GC!NGC	41	630; 657; 702; 729; 837; 876; 915; 922; 957; 1035; 1089; 1122; 1218; 1502; 2021; 2043; 2057; 2495; 2634; 2686; 2697; 2787; 2792; 2829; 2870; 2957; 2960; 2963; 3199; 3295; 3336; 3350; 3464; 3803; 3818; 4029; 4235; 4238; 4303; 4446; 4601
GdiII	C!GGCCR	2	954; 2631
GdiII	Y!GGCCG	4	954; 2631; 3196; 3223
GlaI	GC!GC	24	596; 762; 1114; 1167; 1990; 1998; 2024; 2046; 2055; 2068; 2099; 2718; 2726; 2790; 2827; 3093; 3353; 3529; 3615; 4018; 4127; 4301; 4401; 4468
GluI	GC!NGC	41	630; 657; 702; 729; 837; 876; 915; 922; 957; 1035; 1089; 1122; 1218; 1502; 2021; 2043; 2057; 2495; 2634; 2686; 2697; 2787; 2792; 2829; 2870; 2957; 2960; 2963; 3199; 3295; 3336; 3350; 3464; 3803; 3818; 4029; 4235; 4238; 4303; 4446; 4601
GsaI	CCCAG!C	5	836; 1181; 2272; 2344; 4343
GsaI	GCTGG!G	2	1252; 3233
GsuI	CTGGAGNNNNNNNNNNNNNN!	1	3565
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3508
HaeI	WGG!CCW	5	2546; 2807; 4169; 4621; 4632
HaeII	RGCG!Y	7	598; 764; 1169; 1992; 2000; 2728; 4403
HaeIII	GG!CC	25	84; 277; 632; 728; 952; 956; 1199; 1355; 1691; 1833; 2488; 2494; 2503; 2546; 2633; 2807; 3198; 3225; 3734; 3791; 3824; 4169; 4603; 4621; 4632
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1400; 2921
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1366; 2887
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1399; 2920
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1368; 2889
HapII	C!CGG	24	601; 665; 953; 989; 1285; 1298; 1357; 1367; 1943; 2630; 2707; 2729; 2757; 2888; 2978; 3045; 3226; 3501; 3509; 3601; 4075; 4265; 4291; 4438
HgaI	GACGCNNNNN!	3	526; 3435; 3514
HgaI	!NNNNNNNNNNGCGTC	3	2058; 3953; 4531
HhaI	GCG!C	24	597; 763; 1115; 1168; 1991; 1999; 2025; 2047; 2056; 2069; 2100; 2719; 2727; 2791; 2828; 3094; 3354; 3530; 3616; 4019; 4128; 4302; 4402; 4469
HinI	GR!CGYC	8	122; 175; 258; 444; 761; 2725; 3427; 3506
Hin1II	CATG!	21	304; 364; 615; 645; 735; 1068; 1155; 1206; 2155; 2295; 2367; 2458; 2599; 2944; 3130; 3161; 3187; 3543; 3927; 4647; 4698
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1399; 2920
Hin4I	!NNNNNNNNGABNNNNNRTC	3	1367; 2888; 2918
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1399; 2920; 2950
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	1367; 2888

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hin6I	G!CGC	24	595; 761; 1113; 1166; 1989; 1997; 2023; 2045; 2054; 2067; 2098; 2717; 2725; 2789; 2826; 3092; 3352; 3528; 3614; 4017; 4126; 4300; 4400; 4467
HinP1I	G!CGC	24	595; 761; 1113; 1166; 1989; 1997; 2023; 2045; 2054; 2067; 2098; 2717; 2725; 2789; 2826; 3092; 3352; 3528; 3614; 4017; 4126; 4300; 4400; 4467
HincII	GTY!RAC	2	1341; 1488
HindII	GTY!RAC	2	1341; 1488
HindIII	A!AGCTT	1	1322
HinfI	G!ANTC	11	410; 1768; 1790; 2200; 3210; 3344; 3396; 3454; 3491; 4273; 4669
HpaI	GTT!AAC	1	1488
HpaII	C!CGG	24	601; 665; 953; 989; 1285; 1298; 1357; 1367; 1943; 2630; 2707; 2729; 2757; 2888; 2978; 3045; 3226; 3501; 3509; 3601; 4075; 4265; 4291; 4438
HphI	GGTGANNNNNNN!	5	376; 990; 1312; 3796; 3912
HphI	!NNNNNNNTCACC	5	654; 1008; 1086; 1842; 2903
Hpy8I	GTN!NAC	10	201; 539; 577; 1143; 1341; 1488; 1772; 1789; 1844; 4331
Hpy99I	CGWCG!	10	625; 1120; 1345; 2815; 2843; 3137; 3152; 3429; 3814; 4547
Hpy166II	GTN!NAC	10	201; 539; 577; 1143; 1341; 1488; 1772; 1789; 1844; 4331
Hpy188I	TCN!GA	11	585; 1899; 2508; 2692; 3036; 3389; 3490; 3969; 4103; 4456; 4534
Hpy188III	TC!NNGA	25	897; 1081; 1161; 1278; 1313; 1373; 2152; 2204; 2517; 2570; 2743; 3059; 3068; 3151; 3207; 3251; 3341; 3374; 3443; 3924; 3998; 4081; 4179; 4277; 4411
HpyAV	CCTTCNNNNNN!	8	780; 861; 1113; 1221; 1284; 3370; 3477; 4156
HpyAV	!NNNNNGAAGG	7	1958; 2853; 3582; 3598; 3781; 4098; 4408
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 1047; 1345; 1816; 3105; 3221; 3329; 3652; 4143; 4613; 4684
HpyCH4IV	A!CGT	16	122; 134; 175; 258; 339; 444; 794; 926; 1785; 1797; 1840; 1950; 2841; 3028; 3809; 3942
HpyCH4V	TG!CA	23	858; 924; 1059; 1155; 1188; 1291; 1336; 1474; 1501; 1569; 2286; 2295; 2358; 2367; 2482; 2558; 2617; 2776; 2951; 2965; 4035; 4331; 4698
HpyF3I	C!TNAG	7	787; 2205; 2507; 3388; 3837; 3960; 4369
HpyF10VI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 626; 665; 710; 758; 965; 1097; 1121; 1952; 1982; 2009; 2051; 2292; 2364; 2415; 2494; 2716; 2800; 2823; 2962; 3085; 3168; 3435; 3622; 3826; 4025; 4597
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 761; 2725; 3427; 3506
Hsp92II	CATG!	21	304; 364; 615; 645; 735; 1068; 1155; 1206; 2155; 2295; 2367; 2458; 2599; 2944; 3130; 3161; 3187; 3543; 3927; 4647; 4698
HspAI	G!CGC	24	595; 761; 1113; 1166; 1989; 1997; 2023; 2045; 2054; 2067; 2098; 2717; 2725; 2789; 2826; 3092; 3352; 3528; 3614; 4017; 4126; 4300; 4400; 4467
KasI	G!GCGCC	2	760; 2724
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	1349
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	1352
Ksp22I	T!GATCA	1	1382
KspAI	GTT!AAC	1	1488
Kzo9I	!GATC	27	585; 647; 962; 1010; 1025; 1077; 1230; 1309; 1360; 1369; 1382; 2562; 2566; 2585; 2896; 2974; 3055; 3064; 3142; 3518; 3534; 3893; 3905; 3983; 3991; 4002; 4077
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	3	742; 3069; 3279
LpnI	RGCI!GCY	7	596; 762; 1167; 1990; 1998; 2726; 4401
LpnPI	CCDGNNNNNNNNN!	61	102; 295; 614; 646; 678; 778; 796; 846; 868; 966; 1002; 1069; 1123; 1191; 1279; 1298; 1370; 1462; 1767; 1956; 2179; 2217; 2233; 2273; 2328; 2345; 2445; 2530; 2643; 2720; 2742; 2765; 2901; 2915; 2934; 2991; 3058; 3108; 3124; 3181; 3239; 3448; 3514; 3538; 3614; 3703; 3806; 3839; 4070; 4088; 4234; 4254; 4278; 4304; 4353; 4451; 4496; 4526; 4605; 4630; 4667
LpnPI	!NNNNNNNNNNNNNCHGG	54	75; 268; 552; 586; 650; 679; 709; 938; 974; 1066; 1234; 1270; 1342; 1808; 1928; 1985; 2048; 2246; 2258; 2318; 2330; 2562; 2607; 2650; 2692; 2714; 2742; 2789; 2851; 2873; 2963; 3030; 3053; 3097; 3192; 3211; 3236; 3385; 3486; 3529; 3586; 3676; 3779; 3806; 3824; 4060; 4097; 4250; 4276; 4416; 4434; 4469; 4550; 4603

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Lsp1109I	GCAGCNNNNNNNN!	8	1046; 1100; 1513; 2798; 2840; 3361; 3814; 4314
Lsp1109I	!NNNNNNNNNNNGCTGC	7	908; 2007; 2672; 2856; 2949; 4015; 4221
LweI	GCATCNNNNN!	10	668; 902; 1190; 1262; 1541; 2304; 2376; 3024; 3088; 3363
LweI	!NNNNNNNNNGATGC	6	357; 1278; 2683; 2938; 3154; 4546
MabI	A!CCWGGT	1	2314
MaeI	C!TAG	8	592; 1373; 1574; 1992; 2548; 3563; 3897; 4150
MaeII	A!CGT	16	122; 134; 175; 258; 339; 444; 794; 926; 1785; 1797; 1840; 1950; 2841; 3028; 3809; 3942
MaeIII	!GTNAC	12	61; 148; 497; 1513; 2014; 2026; 2845; 3151; 3841; 4107; 4223; 4286
MaiI	GA!TC	27	587; 649; 964; 1012; 1027; 1079; 1232; 1311; 1362; 1371; 1384; 2564; 2568; 2587; 2898; 2976; 3057; 3066; 3144; 3520; 3536; 3895; 3907; 3985; 3993; 4004; 4079
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2149; 3338
MbiI	GAG!CGG	3	629; 1985; 3392
MboI	!GATC	27	585; 647; 962; 1010; 1025; 1077; 1230; 1309; 1360; 1369; 1382; 2562; 2566; 2585; 2896; 2974; 3055; 3064; 3142; 3518; 3534; 3893; 3905; 3983; 3991; 4002; 4077
MboII	GAAGANNNNNNNN!	7	759; 1315; 1981; 2209; 3086; 3296; 3915
MboII	!NNNNNNNTCTTC	5	1005; 3376; 3543; 3743; 3986
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1475
MfiI	R!GATCY	11	585; 1309; 1360; 1369; 2896; 3142; 3534; 3893; 3905; 3991; 4002
MhII	GDGCH!C	15	715; 754; 988; 1055; 1201; 1320; 1357; 1916; 2671; 2764; 2838; 3028; 3090; 3800; 4333
MisI	TGG!CCA	1	2807
MluI	A!CGCGT	1	1611
MluNI	TGG!CCA	1	2807
MlyI	GAGTCNNNNN!	2	1777; 2209
MlyI	!NNNNNGACTC	4	404; 1784; 3390; 4267
Mly113I	GG!CGCC	2	761; 2725
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1818
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4250; 4434
MnII	CCTCNNNNNNN!	7	1444; 2508; 3326; 3532; 3846; 4216; 4540
MnII	!NNNNNGAGG	18	541; 702; 900; 942; 993; 1218; 1404; 1869; 2200; 2478; 2521; 2536; 2576; 2640; 2776; 3133; 3563; 4466
Mph1103I	ATGCA!T	3	2297; 2369; 4700
MreI	CG!CCGCGC	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	952; 1942; 3225; 3508
MroXI	GAANN!NN TTC	1	850
MscI	TGG!CCA	1	2807
MseI	T!TAA	15	7; 1426; 1487; 1608; 1629; 1640; 1652; 1663; 1680; 1778; 2049; 3868; 3882; 3887; 3939
MslI	CAYNN!NNRTG	2	365; 3162
MspI	C!CGG	24	601; 665; 953; 989; 1285; 1298; 1357; 1367; 1943; 2630; 2707; 2729; 2757; 2888; 2978; 3045; 3226; 3501; 3509; 3601; 4075; 4265; 4291; 4438
Msp20I	TGG!CCA	1	2807
MspA1I	CMG!CKG	6	836; 1351; 2223; 2831; 4060; 4305
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	237	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; 636; 649; 663; 677; 693; 706; 730; 744; 767; 791; 805; 839; 855; 871; 896; 909; 930; 960; 987; 1001; 1020; 1035; 1059; 1075; 1093; 1109; 1122; 1149; 1162; 1189; 1206; 1231; 1246; 1261; 1278; 1296; 1310; 1325; 1340; 1362; 1379; 1393; 1408; 1432; 1449; 1462; 1503; 1517; 1530; 1548; 1586; 1601; 1619; 1660; 1684; 1704; 1722; 1743; 1766; 1798; 1813; 1835; 1853; 1866; 1887; 1904; 1917; 1930; 1946; 1959; 1989; 2004; 2029; 2047; 2060; 2075; 2099; 2113; 2137; 2162; 2178; 2216; 2232; 2271; 2285; 2299; 2327; 2343; 2357; 2371; 2400; 2413; 2434; 2443; 2465; 2495; 2511; 2529; 2559; 2582; 2606; 2630; 2649; 2677; 2703; 2719; 2732; 2755; 2769; 2789; 2802; 2816; 2835; 2849; 2862; 2878; 2893; 2906; 2922; 2937; 2953; 2978; 2997; 3013; 3026; 3039; 3057; 3071; 3085; 3101; 3123; 3139; 3158; 3180; 3196; 3219; 3238; 3252; 3268; 3282; 3302; 3318; 3331; 3353; 3386; 3400; 3420; 3433; 3447; 3501; 3514; 3537; 3550; 3569; 3586; 3613; 3649; 3682; 3701; 3726; 3747; 3774; 3787; 3804; 3818; 3833; 3849; 3909; 3934; 3950; 3972; 3985; 3999; 4030; 4044; 4069; 4087; 4102; 4115; 4134; 4147; 4162; 4191; 4210; 4228; 4253; 4268; 4287; 4303; 4322; 4340; 4356; 4370; 4389; 4416; 4439; 4461; 4480; 4495; 4508; 4525; 4545; 4572; 4585; 4604; 4629; 4652; 4666; 4679; 4696
MspJI	!NNNNNNNNNNNNYNG	200	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 598; 619; 637; 658; 676; 704; 727; 751; 769; 786; 806; 827; 845; 876; 904; 921; 939; 961; 983; 1009; 1033; 1051; 1083; 1100; 1121; 1138; 1164; 1189; 1207; 1231; 1252; 1270; 1299; 1319; 1336; 1353; 1377; 1406; 1435; 1477; 1560; 1598; 1622; 1645; 1674; 1718; 1740; 1772; 1808; 1825; 1846; 1883; 1903; 1920; 1937; 1972; 1990; 2008; 2025; 2049; 2071; 2098; 2126; 2152; 2190; 2211; 2228; 2246; 2269; 2290; 2318; 2341; 2362; 2380; 2401; 2418; 2441; 2465; 2485; 2503; 2525; 2556; 2578; 2604; 2623; 2640; 2668; 2687; 2706; 2724; 2742; 2763; 2785; 2809; 2842; 2862; 2880; 2901; 2927; 2954; 2971; 2988; 3005; 3031; 3053; 3075; 3093; 3113; 3132; 3154; 3192; 3212; 3236; 3256; 3276; 3303; 3327; 3360; 3379; 3407; 3429; 3458; 3486; 3511; 3530; 3549; 3570; 3587; 3604; 3635; 3662; 3682; 3705; 3725; 3762; 3779; 3798; 3824; 3844; 3883; 3910; 3929; 3947; 3984; 4002; 4043; 4061; 4087; 4104; 4136; 4165; 4193; 4214; 4237; 4256; 4277; 4295; 4312; 4330; 4356; 4377; 4397; 4417; 4435; 4456; 4482; 4499; 4518; 4537; 4566; 4585; 4603; 4622; 4640; 4658; 4681
MspR9I	CC!NGG	18	90; 283; 1285; 1357; 1358; 2261; 2316; 2333; 2729; 2889; 3112; 3502; 3691; 3794; 4266; 4484; 4497; 4618
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1475
MvaI	CC!WGG	11	90; 283; 2261; 2316; 2333; 3112; 3691; 3794; 4484; 4497; 4618
MvaI269I	GAATGCN!	1	1476
MvaI269I	G!CATTC	1	1569
MvnI	CG!CG	19	60; 959; 1115; 1220; 1351; 1613; 1649; 2025; 2045; 2069; 2100; 2791; 3092; 3530; 3614; 3677; 3746; 4019; 4600
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 626; 665; 710; 758; 965; 1097; 1121; 1952; 1982; 2009; 2051; 2292; 2364; 2415; 2494; 2716; 2800; 2823; 2962; 3085; 3168; 3435; 3622; 3826; 4025; 4597
NaeI	GCC!GGC	4	954; 1944; 3227; 3510
NarI	GG!CGCC	2	761; 2725
NciI	CC!SGG	7	1285; 1357; 1358; 2729; 2889; 3502; 4266
NcoI	C!CATGG	6	360; 611; 641; 1064; 2454; 3157
NdeI	CA!TATG	1	234
NdeII	!GATC	27	585; 647; 962; 1010; 1025; 1077; 1230; 1309; 1360; 1369; 1382; 2562; 2566; 2585; 2896; 2974; 3055; 3064; 3142; 3518; 3534; 3893; 3905; 3983; 3991; 4002; 4077
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	952; 1942; 3225; 3508
NheI	G!CTAGC	1	591

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NlaIII	CATG!	21	304; 364; 615; 645; 735; 1068; 1155; 1206; 2155; 2295; 2367; 2458; 2599; 2944; 3130; 3161; 3187; 3543; 3927; 4647; 4698
NlaIV	GGN!NCC	24	467; 669; 714; 762; 825; 987; 1198; 1199; 1347; 1355; 1362; 1880; 1901; 1913; 2104; 2265; 2337; 2726; 2761; 3609; 3688; 3733; 4576; 4615
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	684; 1557; 1872; 3464
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 778; 961; 4536
Nli3877I	CYCGR!G	4	722; 1001; 1317; 1360
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2514; 2950
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2479
NmeDI	RCCGGYNNNNNNNN!	9	612; 676; 964; 1000; 1309; 1954; 3056; 3237; 3520
NmeDI	!NNNNNNNNNNNNRCCGGY	9	587; 651; 939; 975; 1284; 1929; 3031; 3212; 3495
NmuCI	!GTSAC	3	2014; 2845; 3151
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2827
NsiI	ATGCA!T	3	2297; 2369; 4700
NspI	RCATG!Y	5	1155; 2295; 2367; 3130; 4647
NspV	TT!CGAA	2	1327; 3407
OliI	CACNN!NNGTG	0	
PabI	GTA!C	10	220; 245; 300; 333; 384; 541; 905; 1265; 1348; 3032
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2295; 2367; 3130
PaeR7I	C!TCGAG	1	1313
PagI	T!CATGA	2	2151; 3923
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3690; 3793
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2546
PciI	A!CATGT	1	4643
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	3	742; 3069; 3279
PcsI	WCGNNNN!NNNCGW	7	902; 3019; 3096; 3339; 3413; 3806; 4324
PctI	GAATGCN!	1	1476
PctI	G!CATTC	1	1569
PdiI	GCC!GGC	4	954; 1944; 3227; 3510
PdmI	GAANN!NNTTC	1	850
PfeI	G!AWTC	5	3210; 3344; 3454; 3491; 4669
Pfl23II	C!GTACG	0	
PfI FI	GACN!NNGTC	1	2843
PfIMI	CCANNNN!NTGG	1	798
PfoI	T!CCNGGA	1	3500
PhoI	GG!CC	25	84; 277; 632; 728; 952; 956; 1199; 1355; 1691; 1833; 2488; 2494; 2503; 2546; 2633; 2807; 3198; 3225; 3734; 3791; 3824; 4169; 4603; 4621; 4632
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3106
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2671; 2926
PleI	GAGTCNNNN!	2	1776; 2208
PleI	!NNNNNGACTC	4	404; 1784; 3390; 4267
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	2	795; 927
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	2	795; 927
PpiI	GAACNNNNNNCTCNNNNNNNNNNNN!	1	1807
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3937
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3969
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1775
PpsI	GAGTCNNNN!	2	1776; 2208
PpsI	!NNNNNGACTC	4	404; 1784; 3390; 4267
Ppu10I	A!TGCAT	3	2293; 2365; 4696
Ppu21I	YAC!GTR	5	340; 795; 927; 1841; 3029
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4643
PshAI	GACNN!NNGTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1508; 1713
Psp03I	GGWC!C	2	3244; 3689
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	11	88; 281; 2259; 2314; 2331; 3110; 3689; 3792; 4482; 4495; 4616
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1320
PspCI	CAC!GTG	2	795; 927
PspEI	G!GTNACC	0	
PspGI	!CCWGG	11	88; 281; 2259; 2314; 2331; 3110; 3689; 3792; 4482; 4495; 4616
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	24	467; 669; 714; 762; 825; 987; 1198; 1199; 1347; 1355; 1362; 1880; 1901; 1913; 2104; 2265; 2337; 2726; 2761; 3609; 3688; 3733; 4576; 4615
PspOMI	G!GGCCC	2	1197; 1353
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	3	125; 2455; 3454
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2857
PspPI	G!GNCC	11	83; 276; 726; 1198; 1354; 1832; 3241; 3686; 3732; 3790; 3823
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	5	851; 1196; 2278; 2350; 3856
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	2191; 3386
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	1200; 3826
PstI	CTGCA!G	2	1190; 1338
PstNI	CAGNN!CTG	2	3826; 4234
PsuI	R!GATCY	11	585; 1309; 1360; 1369; 2896; 3142; 3534; 3893; 3905; 3991; 4002
PsyI	GACN!NNGTC	1	2843
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2223; 2831
RcaI	T!CATGA	2	2151; 3923
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	3240
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	1	956
RleAI	CCCACANNNNNNNNNNNN!	1	1454
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNNNN!	2	932; 1025
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	10	219; 244; 299; 332; 383; 540; 904; 1264; 1347; 3031
RsaNI	G!TAC	10	218; 243; 298; 331; 382; 539; 903; 1263; 1346; 3030
RseI	CAYNN!NNRTG	2	365; 3162
RsrII	CG!GWCCG	1	3241
Rsr2I	CG!GWCCG	1	3241
SacI	GAGCT!C	1	1320
SacII	CCGC!GG	1	1352
SalI	G!TCGAC	1	1339
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	3	742; 3069; 3279
SaqAI	T!TAA	15	7; 1426; 1487; 1608; 1629; 1640; 1652; 1663; 1680; 1778; 2049; 3868; 3882; 3887; 3939
SatI	GC!NGC	41	630; 657; 702; 729; 837; 876; 915; 922; 957; 1035; 1089; 1122; 1218; 1502; 2021; 2043; 2057; 2495; 2634; 2686; 2697; 2787; 2792; 2829; 2870; 2957; 2960; 2963; 3199; 3295; 3336; 3350; 3464; 3803; 3818; 4029; 4235; 4238; 4303; 4446; 4601
Sau96I	G!GNCC	11	83; 276; 726; 1198; 1354; 1832; 3241; 3686; 3732; 3790; 3823

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sau3AI	!GATC	27	585; 647; 962; 1010; 1025; 1077; 1230; 1309; 1360; 1369; 1382; 2562; 2566; 2585; 2896; 2974; 3055; 3064; 3142; 3518; 3534; 3893; 3905; 3983; 3991; 4002; 4077
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1777; 2209
SchI	!NNNNNGACTC	4	404; 1784; 3390; 4267
SciI	CTC!GAG	1	1315
ScrFI	CC!NGG	18	90; 283; 1285; 1357; 1358; 2261; 2316; 2333; 2729; 2889; 3112; 3502; 3691; 3794; 4266; 4484; 4497; 4618
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	4	2303; 2375; 2544; 4486
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2880; 3365
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	15	715; 754; 988; 1055; 1201; 1320; 1357; 1916; 2671; 2764; 2838; 3028; 3090; 3800; 4333
SelI	!CGCG	19	58; 957; 1113; 1218; 1349; 1611; 1647; 2023; 2043; 2067; 2098; 2789; 3090; 3528; 3612; 3675; 3744; 4017; 4598
SetI	ASST!	65	125; 137; 178; 261; 308; 342; 447; 552; 568; 695; 772; 785; 797; 829; 929; 934; 940; 980; 1058; 1093; 1105; 1135; 1250; 1320; 1326; 1415; 1436; 1445; 1457; 1506; 1673; 1788; 1800; 1843; 1880; 1930; 1953; 2077; 2225; 2320; 2513; 2626; 2754; 2833; 2844; 2916; 2987; 3031; 3291; 3437; 3481; 3812; 3843; 3902; 3945; 4088; 4109; 4208; 4345; 4360; 4379; 4391; 4435; 4481; 4532
SexAI	A!CCWGGT	1	2314
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	668; 902; 1190; 1262; 1541; 2304; 2376; 3024; 3088; 3363
SfaNI	!NNNNNNNNNGATGC	6	357; 1278; 2683; 2938; 3154; 4546
SfcI	C!TRYAG	6	1128; 1186; 1334; 2060; 4187; 4378
SfiI	GGCCNNNN!NGGCC	1	2500
SfoI	GGC!GCC	2	762; 2726
Sfr274I	C!TCGAG	1	1313
Sfr303I	CCGC!GG	1	1352
SfuI	TT!CGAA	2	1327; 3407
SgeI	CNNGNNNNNNNNN!	189	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 645; 663; 677; 693; 706; 730; 744; 777; 795; 845; 867; 902; 918; 937; 960; 987; 1001; 1020; 1035; 1059; 1077; 1093; 1109; 1122; 1149; 1164; 1190; 1206; 1231; 1257; 1278; 1296; 1310; 1325; 1362; 1379; 1432; 1461; 1503; 1586; 1624; 1660; 1744; 1766; 1798; 1835; 1853; 1872; 1887; 1929; 1946; 1963; 1998; 2012; 2029; 2051; 2075; 2099; 2164; 2178; 2216; 2232; 2272; 2285; 2304; 2327; 2344; 2357; 2376; 2406; 2427; 2444; 2467; 2502; 2529; 2560; 2582; 2608; 2630; 2649; 2677; 2713; 2732; 2755; 2769; 2789; 2802; 2816; 2835; 2849; 2868; 2900; 2914; 2927; 2953; 2984; 2997; 3014; 3031; 3045; 3062; 3080; 3095; 3123; 3139; 3158; 3180; 3196; 3219; 3238; 3263; 3282; 3302; 3329; 3353; 3386; 3405; 3433; 3447; 3513; 3537; 3552; 3575; 3596; 3613; 3661; 3688; 3702; 3731; 3755; 3788; 3805; 3825; 3838; 3851; 3909; 3936; 3955; 3985; 4010; 4030; 4044; 4069; 4087; 4124; 4162; 4191; 4219; 4233; 4253; 4268; 4289; 4303; 4322; 4340; 4356; 4396; 4416; 4443; 4461; 4482; 4495; 4508; 4525; 4549; 4572; 4604; 4629; 4656; 4678

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNCNG	166	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 619; 637; 658; 676; 704; 727; 751; 769; 819; 841; 876; 904; 934; 961; 983; 1009; 1033; 1051; 1083; 1100; 1123; 1147; 1164; 1189; 1207; 1231; 1252; 1270; 1299; 1336; 1353; 1406; 1435; 1477; 1560; 1598; 1634; 1718; 1740; 1772; 1809; 1827; 1846; 1903; 1920; 1937; 1972; 1990; 2010; 2030; 2049; 2073; 2138; 2190; 2246; 2278; 2301; 2318; 2350; 2380; 2401; 2418; 2441; 2476; 2503; 2534; 2556; 2582; 2604; 2623; 2651; 2687; 2706; 2729; 2750; 2768; 2785; 2809; 2842; 2874; 2901; 2927; 2958; 2988; 3005; 3031; 3054; 3075; 3097; 3117; 3137; 3154; 3193; 3212; 3237; 3256; 3276; 3303; 3327; 3360; 3379; 3407; 3429; 3487; 3511; 3530; 3549; 3570; 3587; 3635; 3662; 3682; 3705; 3729; 3762; 3779; 3799; 3825; 3883; 3910; 3929; 3959; 3984; 4004; 4043; 4061; 4098; 4136; 4165; 4193; 4214; 4242; 4263; 4296; 4314; 4370; 4390; 4417; 4435; 4456; 4482; 4499; 4523; 4546; 4578; 4603; 4630; 4652; 4681
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	1352
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1872; 3659; 4452
SimI	!GACCC	5	106; 1280; 3153; 3721; 3969
SinI	G!GWCC	2	3241; 3686
SlaI	C!TCGAG	1	1313
SmaI	CCC!GGG	1	1358
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	2	365; 3162
SmlI	C!TYRAG	6	1313; 1319; 3116; 3998; 4275; 4537
SmoI	C!TYRAG	6	1313; 1319; 3116; 3998; 4275; 4537
SmuI	CCCGCNNNN!	11	93; 119; 286; 645; 898; 1105; 2047; 2402; 2423; 3619; 3751
SmuI	!NNNNNNGCGGG	6	1344; 1978; 2848; 3385; 3523; 3670
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2295; 2367; 3130
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 1329; 1475; 1539; 1617; 1643; 1654; 2301; 2373; 2465; 3883
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2546
SsiI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 638; 657; 729; 891; 942; 957; 1032; 1098; 1215; 1218; 1349; 2040; 2043; 2057; 2147; 2395; 2407; 2416; 2428; 2438; 2449; 2495; 2634; 2697; 3199; 3244; 3310; 3336; 3461; 3464; 3612; 3744; 4051; 4195; 4691
SsiI	G!CGG	31	370; 403; 528; 629; 701; 704; 836; 875; 914; 1121; 1351; 1985; 2012; 2100; 2210; 2791; 2855; 2956; 2959; 3239; 3294; 3392; 3530; 3677; 3817; 4060; 4305; 4426; 4445; 4572; 4600
SspI	AAT!ATT	2	1633; 2186
SspDI	G!GCGCC	2	760; 2724
SspD5I	GGTGANNNNNNN!	5	376; 990; 1312; 3796; 3912
SspD5I	!NNNNNNNNTCACC	5	653; 1007; 1085; 1841; 2902
SstI	GAGCT!C	1	1320
SstII	CCGC!GG	1	1352
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 644; 725; 897; 1004; 1104; 1291; 1363; 1924; 2046; 2401; 2422; 2735; 3138; 3277; 3348; 3618; 3750; 3980; 4418
Sth132I	!NNNNNNNNCGGG	20	15; 407; 470; 1185; 1343; 1925; 1977; 2078; 2805; 2847; 2880; 3384; 3493; 3522; 3669; 3773; 3804; 4257; 4301; 4509
Sth302II	CC!GG	24	602; 666; 954; 990; 1286; 1299; 1358; 1368; 1944; 2631; 2708; 2730; 2758; 2889; 2979; 3046; 3227; 3502; 3510; 3602; 4076; 4266; 4292; 4439
StrI	C!TCGAG	1	1313
StsI	GGATGNNNNNNNNN!	6	1097; 1301; 2593; 3050; 3075; 3529
StsI	!NNNNNNNNNNNNNCATCC	3	1014; 1155; 2397
StuI	AGG!CCT	1	2546

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StyI	C!CWWGG	8	360; 611; 641; 1064; 2454; 2547; 3157; 3562
StyD4I	!CCNGG	18	88; 281; 1283; 1355; 1356; 2259; 2314; 2331; 2727; 2887; 3110; 3500; 3689; 3792; 4264; 4482; 4495; 4616
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 1047; 1345; 1816; 3105; 3221; 3329; 3652; 4143; 4613; 4684
TaiI	ACGT!	16	125; 137; 178; 261; 342; 447; 797; 929; 1788; 1800; 1843; 1953; 2844; 3031; 3812; 3945
TaqI	T!CGA	17	650; 689; 896; 1314; 1327; 1340; 1874; 2565; 2838; 2994; 3018; 3054; 3216; 3407; 3452; 3707; 4545
TaqII	GACCGANNNNNNNNNNN!	3	1745; 2762; 3430
TaqII	!NNNNNNNNNTCGGTC	1	3674
TaqII	CACCCANNNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	3	172; 2629; 3221
TasI	!AATT	11	18; 1329; 1475; 1539; 1617; 1643; 1654; 2301; 2373; 2465; 3883
TatI	W!GTACW	4	217; 297; 330; 381
TauI	GCSG!C	25	632; 659; 704; 731; 839; 878; 917; 959; 1124; 1220; 2045; 2059; 2497; 2636; 2699; 2794; 2959; 2962; 3201; 3297; 3338; 3466; 3820; 4448; 4603
TfiI	G!AWTC	5	3210; 3344; 3454; 3491; 4669
TiiI	C!TCGAG	1	1313
TruII	T!TAA	15	7; 1426; 1487; 1608; 1629; 1640; 1652; 1663; 1680; 1778; 2049; 3868; 3882; 3887; 3939
Tru9I	T!TAA	15	7; 1426; 1487; 1608; 1629; 1640; 1652; 1663; 1680; 1778; 2049; 3868; 3882; 3887; 3939
TscAI	CASTGNN!	5	1571; 2854; 3964; 4235; 4248
TseI	G!CWGC	16	921; 1034; 1088; 1501; 2020; 2685; 2786; 2828; 2869; 2962; 3349; 3802; 4028; 4234; 4237; 4302
TsoI	TARCCANNNNNNNNNNN!	2	1697; 2044
TsoI	!NNNNNNNNNTGGYTA	2	1502; 3254
Tsp45I	!GTSAC	3	2014; 2845; 3151
Tsp509I	!AATT	11	18; 1329; 1475; 1539; 1617; 1643; 1654; 2301; 2373; 2465; 3883
TspDTI	ATGAANNNNNNNNNNN!	4	760; 1483; 2784; 3488
TspDTI	!NNNNNNNNNTTCAT	4	26; 3202; 3658; 3865
TspEI	!AATT	11	18; 1329; 1475; 1539; 1617; 1643; 1654; 2301; 2373; 2465; 3883
TspGWI	ACGGANNNNNNNNNNN!	1	3600
TspGWI	!NNNNNNNNNTCCGT	1	1125
TspMI	C!CCGGG	1	1356
TspRI	CASTGNN!	5	1571; 2854; 3964; 4235; 4248
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	1	637
TstI	GGANNNNNGTGNNNNNNNNNNNN!	1	669
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2843
Tth111II	CAARCANNNNNNNNNNN!	1	4052
Tth111II	!NNNNNNNNNTGYTTG	3	3160; 4020; 4059
UnbI	!GGNCC	11	82; 275; 725; 1197; 1353; 1831; 3240; 3685; 3731; 3789; 3822
Van91I	CCANNNN!NTGG	1	798
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	1	4329
VpaK11AI	!GGWCC	2	3240; 3685
VpaK11BI	G!GWCC	2	3241; 3686
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	1329; 1539; 1643; 1654
XbaI	T!CTAGA	1	1372
XceI	RCATG!Y	5	1155; 2295; 2367; 3130; 4647
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1313
XhoII	R!GATCY	11	585; 1309; 1360; 1369; 2896; 3142; 3534; 3893; 3905; 3991; 4002
XmaI	C!CCGGG	1	1356
XmaJI	C!CTAGG	2	2547; 3562

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XmiI	GT!MKAC	1	1340
XmnI	GAANN!NNTTC	1	850
XspI	C!TAG	8	592; 1373; 1574; 1992; 2548; 3563; 3897; 4150
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2297; 2369; 4700