

pFusionRed-CDC42 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2075; 2280
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	1	1898
AasI	GACNNNN!NNGTC	3	2363; 3319; 5108
AatI	AGG!CCT	3	1039; 1841; 3113
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1190
AccII	CG!CG	15	60; 2180; 2216; 2592; 2612; 2636; 2667; 3358; 3659; 4097; 4181; 4244; 4313; 4586; 5167
AccIII	T!CCGGA	1	1321
Acc16I	TGC!GCA	1	3394
Acc36I	ACCTGCNNNN!	2	3560; 4010
Acc36I	!NNNNNNNNGCAGGT	2	1898; 3179
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	7	465; 664; 724; 1641; 2445; 3291; 3326
AccB7I	CCANNNN!NTGG	1	1209
AccBSI	CCG!CTC	2	2716; 3905
AccBSI	GAG!CGG	2	2552; 3959
AceIII	CAGCTCNNNNNNN!	1	2248
AceIII	!NNNNNNNNNNGAGCTG	2	552; 610
AciI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1343; 1555; 1905; 2607; 2610; 2624; 2714; 2962; 2974; 2983; 2995; 3005; 3016; 3062; 3201; 3264; 3766; 3811; 3877; 3903; 4028; 4031; 4179; 4311; 4618; 4762; 5258
AciI	G!CGG	26	370; 403; 528; 758; 1070; 1112; 2552; 2579; 2667; 2777; 3358; 3422; 3523; 3526; 3806; 3861; 3959; 4097; 4244; 4384; 4627; 4872; 4993; 5012; 5139; 5167
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	1935; 1944; 3160; 3471; 3717; 4109; 4468; 4566; 4652
AclWI	!NNNNNGATCC	7	580; 1145; 1922; 3536; 4080; 4467; 4564
AcoI	Y!GGCCR	5	1268; 3198; 3372; 3763; 3790
AcsI	R!AATY	4	1429; 2106; 2210; 2221
AcuI	CTGAAGNNNNNNNNNNNNNNN!	4	1120; 1816; 3438; 3870
AcuI	!NNNNNNNNNNNNNCTTCAG	1	4668
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	8	122; 175; 258; 444; 1187; 3292; 3994; 4073
AdeI	CACNNN!GTG	2	1260; 2408
AfaI	GT!AC	11	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1448; 3598
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	20	49; 721; 1000; 1066; 1209; 2304; 2630; 3022; 3273; 3817; 4098; 4130; 4262; 4297; 4347; 4379; 4732; 5011; 5177; 5195
AflII	C!TTAAG	0	
AflIII	A!CRYGT	3	1399; 2178; 5210
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	7	687; 1621; 2703; 2747; 2757; 3170; 4746
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	16	88; 281; 785; 929; 944; 1073; 1877; 2826; 2881; 2898; 3677; 4256; 4359; 5049; 5062; 5183
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	1	613
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	3	1930; 2866; 2938
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	3	1896; 2832; 2904
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	2374
AloI	!NNNNNNNNGGANNNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	2342
AluI	AG!CT	17	566; 624; 651; 797; 1104; 1782; 2071; 2238; 2495; 2790; 3078; 3398; 3856; 4653; 4910; 4956; 5046
AluBI	AG!CT	17	566; 624; 651; 797; 1104; 1782; 2071; 2238; 2495; 2790; 3078; 3398; 3856; 4653; 4910; 4956; 5046
AlwI	GGATCNNNN!	9	1935; 1944; 3160; 3471; 3717; 4109; 4468; 4566; 4652
AlwI	!NNNNNGATCC	7	580; 1145; 1922; 3536; 4080; 4467; 4564
Alw21I	GWGCW!C	4	694; 3405; 3595; 4900
Alw26I	GTCTCN!	3	434; 1408; 1608
Alw26I	!NNNNNGAGAC	8	1042; 1132; 1231; 1762; 2716; 3134; 4153; 4281
Alw44I	G!TGCAC	2	690; 4896
AlwNI	CAGNNN!CTG	3	1771; 4393; 4801
Ama87I	C!YCGRG	0	
Aor13HI	T!CCGGA	1	1321
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	3	2860; 2932; 4394
ApaLI	G!TGCAC	2	690; 4896
ApeKI	G!CWGC	18	809; 953; 1251; 1873; 1917; 2068; 2587; 3252; 3353; 3395; 3436; 3529; 3916; 4369; 4595; 4801; 4804; 4869
ApoI	R!AATTY	4	1429; 2106; 2210; 2221
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3807
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	3601; 4254; 5092
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3691
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	785
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	1338; 3120
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	3862
ArsI	GACNNNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	24	586; 1125; 1151; 1331; 1702; 1928; 1937; 1950; 3130; 3134; 3153; 3464; 3542; 3623; 3632; 3710; 4086; 4102; 4461; 4473; 4551; 4559; 4570; 4645
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3410
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3114; 4129
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	23	597; 1084; 1291; 2558; 2566; 2592; 2614; 2623; 2636; 2667; 3286; 3294; 3358; 3395; 3661; 3921; 4097; 4183; 4586; 4695; 4869; 4969; 5036
AspS9I	G!GNCC	14	83; 276; 760; 1003; 1095; 1116; 1200; 1785; 2399; 3808; 4253; 4299; 4357; 4390
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	3974
AsuC2I	CC!SGG	6	836; 1184; 3296; 3456; 4069; 4833
AsuHPI	GGTGANNNNNNNN!	6	376; 627; 996; 1306; 4363; 4479
AsuHPI	!NNNNNNNTCACC	4	885; 1648; 2409; 3470
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	0	
AvaII	G!GWCC	3	1200; 3808; 4253
AviII	TGC!GCA	1	3394
AvrII	C!CTAGG	2	3114; 4129

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AxyI	CC!TNAGG	3	869; 2772; 4404
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	6	667; 694; 727; 3238; 3331; 4900
BalI	TGG!CCA	2	1270; 3374
BamHI	G!GATCC	1	1927
BanI	G!GYRCC	7	465; 664; 724; 1641; 2445; 3291; 3326
BanII	GRGCY!C	3	2483; 3657; 4367
BanIII	AT!CGAT	1	3132
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	1209
BauI	C!ACGAG	3	1255; 4010; 5037
BauI	C!TCGTG	2	1105; 3884
BbeI	GGCGC!C	1	3295
Bbr7I	GAAGACNNNNNNN!	1	916
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	911
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2862; 2934; 3697
BbvI	GCAGCNNNNNNNN!	8	821; 1263; 2080; 3365; 3407; 3928; 4381; 4881
BbvI	!NNNNNNNNNNNGCTGC	9	940; 1860; 1904; 2574; 3239; 3423; 3516; 4582; 4788
Bbv12I	GWGCW!C	4	694; 3405; 3595; 4900
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	1443; 1617; 2422; 2986; 3512; 4014
BccI	!NNNNNGATGG	5	1291; 1375; 2390; 3170; 3598
BceAI	ACGGCNNNNNNNNNNNN!	6	822; 966; 1017; 1083; 3718; 4205
BceAI	!NNNNNNNNNNNNNGCCGT	3	2433; 3251; 4710
Bcefl	ACGGCNNNNNNNNNNNN!	6	822; 966; 1017; 1083; 3718; 4205
Bcefl	!NNNNNNNNNNNNNGCCGT	3	2434; 3252; 4711
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2721; 3511; 5012
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1949
BcnI	CC!SGG	6	836; 1184; 3296; 3456; 4069; 4833
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNNN!	4	1670; 1819; 1972; 5145
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	4	1636; 1785; 1938; 5111
BfaI	C!TAG	9	592; 1585; 1940; 2141; 2559; 3115; 4130; 4464; 4717
BfiI	ACTGGGNNNNN!	1	3241
BfiI	!NNNNCCCAGT	2	289; 2993
BfmI	C!TRYAG	4	1523; 2627; 4754; 4945
BfoI	RGCGC!Y	6	598; 1292; 2559; 2567; 3295; 4970
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2721; 3511; 5012
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3560; 4010
BfuAI	!NNNNNNNNNGCAGGT	2	1898; 3179
BfuCI	!GATC	24	585; 1124; 1150; 1330; 1701; 1927; 1936; 1949; 3129; 3133; 3152; 3463; 3541; 3622; 3631; 3709; 4085; 4101; 4460; 4472; 4550; 4558; 4569; 4644
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1079; 3067
BglII	A!GATCT	1	1330

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BisI	GC!NGC	36	759; 810; 954; 1071; 1252; 1874; 1905; 1918; 2069; 2588; 2610; 2624; 3062; 3201; 3253; 3264; 3354; 3359; 3396; 3437; 3524; 3527; 3530; 3766; 3862; 3903; 3917; 4031; 4370; 4385; 4596; 4802; 4805; 4870; 5013; 5168
BlnI	C!CTAGG	2	3114; 4129
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	36	760; 811; 955; 1072; 1253; 1875; 1906; 1919; 2070; 2589; 2611; 2625; 3063; 3202; 3254; 3265; 3355; 3360; 3397; 3438; 3525; 3528; 3531; 3767; 3863; 3904; 3918; 4032; 4371; 4386; 4597; 4803; 4806; 4871; 5014; 5169
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	1200; 3808; 4253
Bme1390I	CC!NGG	22	90; 283; 787; 836; 931; 946; 1075; 1184; 1879; 2828; 2883; 2900; 3296; 3456; 3679; 4069; 4258; 4361; 4833; 5051; 5064; 5185
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	0	
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	14	84; 277; 761; 1004; 1096; 1117; 1201; 1786; 2400; 3809; 4254; 4300; 4358; 4391
BmiI	GGN!NCC	22	467; 666; 726; 1117; 1320; 1341; 1643; 1883; 1929; 2447; 2468; 2480; 2671; 2832; 2904; 3293; 3328; 4176; 4255; 4300; 5143; 5182
BmrI	ACTGGGNNNNN!	1	3241
BmrI	!NNNNCCCAGT	2	289; 2993
BmrFI	CC!NGG	22	90; 283; 787; 836; 931; 946; 1075; 1184; 1879; 2828; 2883; 2900; 3296; 3456; 3679; 4069; 4258; 4361; 4833; 5051; 5064; 5185
BmsI	GCATCNNNNN!	7	848; 2108; 2871; 2943; 3591; 3655; 3930
BmsI	!NNNNNNNNNGATGC	7	357; 1001; 1169; 3250; 3505; 3721; 5113
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	3241
BmuI	!NNNNCCCAGT	2	289; 2993
BoxI	GACNN!NNGTC	1	1243
BpiI	GAAGACNN!	1	911
BpiI	!NNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3081; 3980
BpI	!NNNNNNNNNGAGNNNNNCTC	2	3049; 3948
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	1900; 4132
BpmI	!NNNNNNNNNNNNNNNCTCCAG	4	928; 1748; 1871; 4075
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	3974
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	911
BpuAI	!NNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	1156; 4586; 5125
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	1159; 3668; 4827
BpuMI	CC!SGG	6	836; 1184; 3296; 3456; 4069; 4833
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	1	1608
BsaI	!NNNNNGAGACC	3	1132; 1231; 4281
Bsa29I	AT!CGAT	1	3132
BsaAI	YAC!GTR	3	340; 2408; 3596
BsaBI	GATNN!NNATC	2	1954; 3151
BsaHI	GR!CGYC	8	122; 175; 258; 444; 1187; 3292; 3994; 4073
BsaJI	C!CNNGG	19	360; 611; 698; 929; 1877; 2826; 2898; 3021; 3056; 3065; 3114; 3455; 3724; 4129; 4256; 4257; 4359; 4360; 5050
BsaMI	GAATGCN!	2	1355; 2043
BsaMI	G!CATTC	1	2136
BsaWI	W!CCGGW	7	600; 1321; 1933; 3323; 4167; 4857; 5004
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2372
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2342

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsbI	CAACACNNNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	3	1347; 2293; 4200
Bsc4I	CCNNNNN!NNGG	20	49; 721; 1000; 1066; 1209; 2304; 2630; 3022; 3273; 3817; 4098; 4130; 4262; 4297; 4347; 4379; 4732; 5011; 5177; 5195
BscAI	GCATCNNNN!	7	847; 2107; 2870; 2942; 3590; 3654; 3929
BscAI	!NNNNNNGATGC	7	360; 1004; 1172; 3253; 3508; 3724; 5116
Bse1I	ACTGGN!	5	1214; 1287; 3236; 3437; 4683
Bse1I	C!CAGT	5	295; 2321; 2999; 4795; 4808
Bse8I	GATNN!NNATC	2	1954; 3151
Bse21I	CC!TNAGG	3	869; 2772; 4404
Bse118I	R!CCGGY	5	600; 2509; 3611; 3792; 4075
BseAI	T!CCGGA	1	1321
BseBI	CC!WGG	16	90; 283; 787; 931; 946; 1075; 1879; 2828; 2883; 2900; 3679; 4258; 4361; 5051; 5064; 5185
BseCI	AT!CGAT	1	3132
BseDI	C!CNNGG	19	360; 611; 698; 929; 1877; 2826; 2898; 3021; 3056; 3065; 3114; 3455; 3724; 4129; 4256; 4257; 4359; 4360; 5050
Bse3DI	GCAATGNN!	1	3525
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	3152; 3609; 3634; 4088
BseGI	!CATCC	4	694; 782; 839; 2978
BseJI	GATNN!NNATC	2	1954; 3151
BseLI	CCNNNNN!NNGG	20	49; 721; 1000; 1066; 1209; 2304; 2630; 3022; 3273; 3817; 4098; 4130; 4262; 4297; 4347; 4379; 4732; 5011; 5177; 5195
BseMI	GCAATGNN!	1	3525
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	3	1341; 1719; 4418
BseMII	!NNNNNNNNCTGAG	8	860; 1549; 1637; 2763; 3065; 3946; 4518; 4927
BseNI	ACTGGN!	5	1214; 1287; 3236; 3437; 4683
BseNI	C!CAGT	5	295; 2321; 2999; 4795; 4808
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1328; 3110
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	6	667; 694; 727; 3238; 3331; 4900
BseXI	GCAGCNNNNNNNN!	8	821; 1263; 2080; 3365; 3407; 3928; 4381; 4881
BseXI	!NNNNNNNNNNNGCTGC	9	940; 1860; 1904; 2574; 3239; 3423; 3516; 4582; 4788
BseX3I	C!GGCCG	1	3198
BseYI	C!CCAGC	4	993; 2835; 2907; 4906
BseYI	G!CTGGG	2	1031; 3796
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	1808
Bsh1236I	CG!CG	15	60; 2180; 2216; 2592; 2612; 2636; 2667; 3358; 3659; 4097; 4181; 4244; 4313; 4586; 5167
Bsh1285I	CGRY!CG	4	605; 1555; 3201; 4876
BshFI	GG!CC	29	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1786; 1841; 2258; 2400; 3055; 3061; 3070; 3113; 3200; 3374; 3765; 3792; 4301; 4358; 4391; 4736; 5170; 5188; 5199
BshNI	G!GYRCC	7	465; 664; 724; 1641; 2445; 3291; 3326
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	3132
BsiEI	CGRY!CG	4	605; 1555; 3201; 4876
BsiHKAI	GWGCW!C	4	694; 3405; 3595; 4900
BsiHKCI	C!YCGRG	0	
BsiSI	C!CGG	21	601; 835; 1184; 1322; 1934; 2510; 3197; 3274; 3296; 3324; 3455; 3545; 3612; 3793; 4068; 4076; 4168; 4642; 4832; 4858; 5005
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	20	49; 721; 1000; 1066; 1209; 2304; 2630; 3022; 3273; 3817; 4098; 4130; 4262; 4297; 4347; 4379; 4732; 5011; 5177; 5195
BsIFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1704; 3443; 3975; 4084
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2808; 2880; 2944; 4239
BsmI	GAATGCN!	2	1355; 2043
BsmI	G!CATTC	1	2136
BsmAI	GTCTCN!	3	434; 1408; 1608
BsmAI	!NNNNNGAGAC	8	1042; 1132; 1231; 1762; 2716; 3134; 4153; 4281
BsmBI	CGTCTCN!	0	

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BsmBI	!NNNNNGAGACG	1	1042
BsmFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1704; 3443; 3975; 4084
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2808; 2880; 2944; 4239
BsnI	GG!CC	29	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1786; 1841; 2258; 2400; 3055; 3061; 3070; 3113; 3200; 3374; 3765; 3792; 4301; 4358; 4391; 4736; 5170; 5188; 5199
Bso31I	GGTCTCN!	1	1608
Bso31I	!NNNNNGAGACC	3	1132; 1231; 4281
BsoBI	C!YCGRG	0	
Bsp13I	T!CCGGA	1	1321
Bsp19I	C!CATGG	4	360; 611; 3021; 3724
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4095
Bsp24I	!NNNNNNCCANNNNNGTC	2	4516; 4694
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4548; 4726
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4063
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	3974
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	24	585; 1124; 1150; 1330; 1701; 1927; 1936; 1949; 3129; 3133; 3152; 3463; 3541; 3622; 3631; 3709; 4085; 4101; 4460; 4472; 4550; 4558; 4569; 4644
Bsp1286I	GDGCH!C	11	667; 694; 727; 2483; 3238; 3331; 3405; 3595; 3657; 4367; 4900
Bsp1407I	T!GTACA	1	653
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1343; 1555; 1905; 2607; 2610; 2624; 2714; 2962; 2974; 2983; 2995; 3005; 3016; 3062; 3201; 3264; 3766; 3811; 3877; 3903; 4028; 4031; 4179; 4311; 4618; 4762; 5258
BspACI	G!CGG	26	370; 403; 528; 758; 1070; 1112; 2552; 2579; 2667; 2777; 3358; 3422; 3523; 3526; 3806; 3861; 3959; 4097; 4244; 4384; 4627; 4872; 4993; 5012; 5139; 5167
BspCNI	CTCAGNNNNNNNN!	3	1340; 1718; 4417
BspCNI	!NNNNNNNCTGAG	8	861; 1550; 1638; 2764; 3066; 3947; 4519; 4928
BspDI	AT!CGAT	1	3132
BspD6I	GACTCNNNN!	7	418; 1333; 1679; 1700; 2365; 3971; 4848
BspD6I	!NNNNNGAGTC	3	883; 2328; 2760
BspEI	T!CCGGA	1	1321
BspFNI	CG!CG	15	60; 2180; 2216; 2592; 2612; 2636; 2667; 3358; 3659; 4097; 4181; 4244; 4313; 4586; 5167
BspHI	T!CATGA	2	2718; 4490
BspLI	GGN!NCC	22	467; 666; 726; 1117; 1320; 1341; 1643; 1883; 1929; 2447; 2468; 2480; 2671; 2832; 2904; 3293; 3328; 4176; 4255; 4300; 5143; 5182
BspMI	ACCTGCNNNN!	2	3560; 4010
BspMI	!NNNNNNNGCAGGT	2	1898; 3179
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	1935; 1944; 3160; 3471; 3717; 4109; 4468; 4566; 4652
BspPI	!NNNNNGATCC	7	580; 1145; 1922; 3536; 4080; 4467; 4564
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	1894; 3636; 3846
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	3974
BspT107I	G!GYRCC	7	465; 664; 724; 1641; 2445; 3291; 3326
BspTNI	GGTCTCN!	1	1608
BspTNI	!NNNNNGAGACC	3	1132; 1231; 4281
BsrI	ACTGGN!	5	1214; 1287; 3236; 3437; 4683
BsrI	C!CAGT	5	295; 2321; 2999; 4795; 4808
BsrBI	CCG!CTC	2	2716; 3905
BsrBI	GAG!CGG	2	2552; 3959
BsrDI	GCAATGNN!	1	3525
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	5	600; 2509; 3611; 3792; 4075
BsrGI	T!GTACA	1	653
BsrSI	ACTGGN!	5	1214; 1287; 3236; 3437; 4683
BsrSI	C!CAGT	5	295; 2321; 2999; 4795; 4808
BssAI	R!CCGGY	5	600; 2509; 3611; 3792; 4075

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssECI	C!CNNGG	19	360; 611; 698; 929; 1877; 2826; 2898; 3021; 3056; 3065; 3114; 3455; 3724; 4129; 4256; 4257; 4359; 4360; 5050
BssHII	G!CGCGC	0	
BssKI	!CCNGG	22	88; 281; 785; 834; 929; 944; 1073; 1182; 1877; 2826; 2881; 2898; 3294; 3454; 3677; 4067; 4256; 4359; 4831; 5049; 5062; 5183
BssMI	!GATC	24	585; 1124; 1150; 1330; 1701; 1927; 1936; 1949; 3129; 3133; 3152; 3463; 3541; 3622; 3631; 3709; 4085; 4101; 4460; 4472; 4550; 4558; 4569; 4644
BssNI	GR!CGYC	8	122; 175; 258; 444; 1187; 3292; 3994; 4073
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1255; 4010; 5037
BssSI	C!TCGTG	2	1105; 3884
BssTII	C!CWWGG	6	360; 611; 3021; 3114; 3724; 4129
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	1894; 2759; 3636; 3846
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 1187; 3292; 3994; 4073
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	2859; 2931; 4393
BstAUI	T!GTACA	1	653
BstBI	TT!CGAA	1	3974
Bst2BI	C!ACGAG	3	1255; 4010; 5037
Bst2BI	C!TCGTG	2	1105; 3884
BstBAI	YAC!GTR	3	340; 2408; 3596
Bst4CI	ACN!GT	17	76; 198; 269; 543; 581; 669; 1455; 1479; 1663; 2383; 3672; 3788; 3896; 4219; 4710; 5180; 5251
BstC8I	GCN!NGC	32	86; 279; 593; 622; 712; 916; 1784; 2511; 2554; 2568; 2841; 2860; 2913; 2932; 3186; 3372; 3591; 3657; 3663; 3691; 3695; 3736; 3740; 3794; 4077; 4264; 4311; 4367; 4389; 4600; 5160; 5197
BstDEI	C!TNAG	11	869; 1327; 1558; 1646; 1705; 2772; 3074; 3955; 4404; 4527; 4936
BstDSI	C!CRYGG	4	360; 611; 3021; 3724
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	3152; 3609; 3634; 4088
BstF5I	!CATCC	4	694; 782; 839; 2978
BstFNI	CG!CG	15	60; 2180; 2216; 2592; 2612; 2636; 2667; 3358; 3659; 4097; 4181; 4244; 4313; 4586; 5167
BstH2I	RGCGC!Y	6	598; 1292; 2559; 2567; 3295; 4970
BstHHI	GCG!C	23	597; 1084; 1291; 2558; 2566; 2592; 2614; 2623; 2636; 2667; 3286; 3294; 3358; 3395; 3661; 3921; 4097; 4183; 4586; 4695; 4869; 4969; 5036
BstKTI	GAT!C	24	588; 1127; 1153; 1333; 1704; 1930; 1939; 1952; 3132; 3136; 3155; 3466; 3544; 3625; 3634; 3712; 4088; 4104; 4463; 4475; 4553; 4561; 4572; 4647
BstMAI	GTCTCN!	3	434; 1408; 1608
BstMAI	!NNNNGAGAC	8	1042; 1132; 1231; 1762; 2716; 3134; 4153; 4281
BstMBI	!GATC	24	585; 1124; 1150; 1330; 1701; 1927; 1936; 1949; 3129; 3133; 3152; 3463; 3541; 3622; 3631; 3709; 4085; 4101; 4460; 4472; 4550; 4558; 4569; 4644
BstMCI	CGRY!CG	4	605; 1555; 3201; 4876
BstMWI	GCNNNNN!NNGC	28	90; 212; 244; 283; 376; 400; 648; 1079; 1870; 2519; 2549; 2576; 2618; 2859; 2931; 2982; 3061; 3283; 3367; 3390; 3529; 3652; 3735; 4002; 4189; 4393; 4592; 5164
BstNI	CC!WGG	16	90; 283; 787; 931; 946; 1075; 1879; 2828; 2883; 2900; 3679; 4258; 4361; 5051; 5064; 5185
BstNSI	RCATG!Y	7	642; 1088; 1403; 2862; 2934; 3697; 5214
BstOI	CC!WGG	16	90; 283; 787; 931; 946; 1075; 1879; 2828; 2883; 2900; 3679; 4258; 4361; 5051; 5064; 5185
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1243
BstSCI	!CCNGG	22	88; 281; 785; 834; 929; 944; 1073; 1182; 1877; 2826; 2881; 2898; 3294; 3454; 3677; 4067; 4256; 4359; 4831; 5049; 5062; 5183
BstSFI	C!TRYAG	4	1523; 2627; 4754; 4945

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSli	GKGCMIIC	6	667; 694; 727; 3238; 3331; 4900
BstSni	TAC!GTA	1	340
BstU1	CG!CG	15	60; 2180; 2216; 2592; 2612; 2636; 2667; 3358; 3659; 4097; 4181; 4244; 4313; 4586; 5167
Bst2U1	CC!WGG	16	90; 283; 787; 931; 946; 1075; 1879; 2828; 2883; 2900; 3679; 4258; 4361; 5051; 5064; 5185
BstV1I	GCAGCNNNNNNNN!	8	821; 1263; 2080; 3365; 3407; 3928; 4381; 4881
BstV1I	!NNNNNNNNNNNGCTGC	9	940; 1860; 1904; 2574; 3239; 3423; 3516; 4582; 4788
BstV2I	GAAGACNN!	1	911
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	12	585; 1150; 1330; 1927; 1936; 3463; 3709; 4101; 4460; 4472; 4558; 4569
BstYI	R!GATCY	12	585; 1150; 1330; 1927; 1936; 3463; 3709; 4101; 4460; 4472; 4558; 4569
BstZI	C!GGCCG	1	3198
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2721; 3511; 5012
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3132
Bsu36I	CC!TNAGG	3	869; 2772; 4404
BsuRI	GG!CC	29	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1786; 1841; 2258; 2400; 3055; 3061; 3070; 3113; 3200; 3374; 3765; 3792; 4301; 4358; 4391; 4736; 5170; 5188; 5199
BsuTUI	AT!CGAT	1	3132
BtgI	C!CRYGG	4	360; 611; 3021; 3724
BtgZ1	GCGATGNNNNNNNNNN!	3	1394; 2409; 3744
BtgZ1	!NNNNNNNNNNNNNNNCATCGC	3	334; 3563; 3907
BthCI	GCNG!C	36	761; 812; 956; 1073; 1254; 1876; 1907; 1920; 2071; 2590; 2612; 2626; 3064; 3203; 3255; 3266; 3356; 3361; 3398; 3439; 3526; 3529; 3532; 3768; 3864; 3905; 3919; 4033; 4372; 4387; 4598; 4804; 4807; 4872; 5015; 5170
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2131
BtsCI	GGATGNN!	4	3152; 3609; 3634; 4088
BtsCI	!CATCC	4	694; 782; 839; 2978
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3560; 4010
BveI	!NNNNNNNNNGCAGGT	2	1898; 3179
Cac8I	GCN!NGC	32	86; 279; 593; 622; 712; 916; 1784; 2511; 2554; 2568; 2841; 2860; 2913; 2932; 3186; 3372; 3591; 3657; 3663; 3691; 3695; 3736; 3740; 3794; 4077; 4264; 4311; 4367; 4389; 4600; 5160; 5197
CaiI	CAGNNN!CTG	3	1771; 4393; 4801
CciI	T!CATGA	2	2718; 4490
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	6	352; 1439; 3581; 3586; 3784; 3925
CdiI	C!GATG	5	1052; 1233; 1380; 2395; 3730
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5164
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	4	486; 1322; 2953; 2995
CelII	GC!TNAGC	0	
CfoI	GCG!C	23	597; 1084; 1291; 2558; 2566; 2592; 2614; 2623; 2636; 2667; 3286; 3294; 3358; 3395; 3661; 3921; 4097; 4183; 4586; 4695; 4869; 4969; 5036
CfrI	Y!GGCCR	5	1268; 3198; 3372; 3763; 3790
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	5	600; 2509; 3611; 3792; 4075
Cfr13I	G!GNCC	14	83; 276; 760; 1003; 1095; 1116; 1200; 1785; 2399; 3808; 4253; 4299; 4357; 4390
Cfr42I	CCGC!GG	0	
ChaI	GATC!	24	589; 1128; 1154; 1334; 1705; 1931; 1940; 1953; 3133; 3137; 3156; 3467; 3545; 3626; 3635; 3713; 4089; 4105; 4464; 4476; 4554; 4562; 4573; 4648
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	5	706; 3109; 4549; 4649; 4727
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2776; 2871; 4063; 4613; 5168

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2810; 2905; 4097; 4647; 5202
CjeI	!NNNNNNNNCCANNNNNNGT	5	672; 3075; 4515; 4615; 4693
CjePI	CCANNNNNNTCANNNNNNNNNNNN!	2	4549; 4727
CjePI	!NNNNNNNGANNNNNNNTGG	3	257; 4063; 4662
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	3	290; 4096; 4695
CjePI	!NNNNNNCCANNNNNNTC	2	4516; 4694
Clal	AT!CGAT	1	3132
CpoI	CG!GWCCG	1	3808
CseI	GACGCNNNNN!	3	526; 4002; 4081
CseI	!NNNNNNNNNGCGTC	4	1176; 2625; 4520; 5098
CsiI	A!CCWGGT	1	2881
CspI	CG!GWCCG	1	3808
Csp6I	G!TAC	11	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1447; 3597
Csp45I	TT!CGAA	1	3974
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	656; 1247; 2572; 4181
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	1	1654
CviAII	C!ATG	25	301; 361; 612; 639; 645; 657; 735; 801; 881; 1085; 1092; 1400; 2719; 2859; 2931; 3022; 3163; 3508; 3694; 3725; 3751; 4107; 4491; 5211; 5262
CviJI	RG!CY	100	42; 84; 93; 277; 566; 624; 651; 714; 761; 790; 797; 875; 941; 953; 997; 1004; 1031; 1039; 1073; 1096; 1104; 1118; 1228; 1264; 1270; 1340; 1755; 1782; 1786; 1801; 1841; 1873; 1884; 1904; 1961; 2071; 2238; 2258; 2400; 2481; 2495; 2509; 2790; 2831; 2903; 3026; 3055; 3061; 3070; 3078; 3101; 3113; 3119; 3200; 3217; 3225; 3252; 3277; 3361; 3370; 3374; 3398; 3436; 3512; 3529; 3548; 3611; 3655; 3665; 3682; 3765; 3792; 3796; 3833; 3856; 3872; 4052; 4079; 4140; 4262; 4301; 4358; 4365; 4372; 4391; 4402; 4653; 4682; 4725; 4736; 4801; 4880; 4905; 4910; 4956; 5046; 5144; 5170; 5188; 5199
CviKI-1	RG!CY	100	42; 84; 93; 277; 566; 624; 651; 714; 761; 790; 797; 875; 941; 953; 997; 1004; 1031; 1039; 1073; 1096; 1104; 1118; 1228; 1264; 1270; 1340; 1755; 1782; 1786; 1801; 1841; 1873; 1884; 1904; 1961; 2071; 2238; 2258; 2400; 2481; 2495; 2509; 2790; 2831; 2903; 3026; 3055; 3061; 3070; 3078; 3101; 3113; 3119; 3200; 3217; 3225; 3252; 3277; 3361; 3370; 3374; 3398; 3436; 3512; 3529; 3548; 3611; 3655; 3665; 3682; 3765; 3792; 3796; 3833; 3856; 3872; 4052; 4079; 4140; 4262; 4301; 4358; 4365; 4372; 4391; 4402; 4653; 4682; 4725; 4736; 4801; 4880; 4905; 4910; 4956; 5046; 5144; 5170; 5188; 5199
CviQI	G!TAC	11	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1447; 3597
DdeI	C!TNAG	11	869; 1327; 1558; 1646; 1705; 2772; 3074; 3955; 4404; 4527; 4936
DinI	GGC!GCC	1	3293
DpnI	GA!TC	24	587; 1126; 1152; 1332; 1703; 1929; 1938; 1951; 3131; 3135; 3154; 3465; 3543; 3624; 3633; 3711; 4087; 4103; 4462; 4474; 4552; 4560; 4571; 4646
DpnII	!GATC	24	585; 1124; 1150; 1330; 1701; 1927; 1936; 1949; 3129; 3133; 3152; 3463; 3541; 3622; 3631; 3709; 4085; 4101; 4460; 4472; 4550; 4558; 4569; 4644
DraI	TTT!AAA	3	1994; 4436; 4455
DraII	RG!GNCCY	1	4390
DraIII	CACNN!GTG	2	1260; 2408
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	4	266; 851; 1766; 4772
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	2363; 3319; 5108
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	1	1575
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2363; 3319; 5108
EaeI	Y!GGCCR	5	1268; 3198; 3372; 3763; 3790
EagI	C!GGCCG	1	3198
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	4	1894; 2759; 3636; 3846

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	4	1894; 2759; 3636; 3846
EciI	GGCGANNNNNNNNNN!	4	2792; 3821; 5008; 5154
EciI	!NNNNNNNNNTCCGCC	4	496; 2963; 2984; 3005
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	1	3198
Eco24I	GRGCY!C	3	2483; 3657; 4367
Eco31I	GGTCTCN!	1	1608
Eco31I	!NNNNNGAGACC	3	1132; 1231; 4281
Eco32I	GAT!ATC	1	1412
Eco47I	G!GWCC	3	1200; 3808; 4253
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	3198
Eco57I	CTGAAGNNNNNNNNNNNNNN!	4	1120; 1816; 3438; 3870
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4668
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	869; 2772; 4404
Eco88I	C!YCGRG	0	
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 611; 3021; 3114; 3724; 4129
Eco147I	AGG!CCT	3	1039; 1841; 3113
EcoHI	!CCSGG	6	834; 1182; 3294; 3454; 4067; 4831
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	6	1120; 1816; 1900; 3438; 3870; 4132
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	928; 1748; 1871; 4075; 4668
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	4390
EcoRI	G!AATC	0	
EcoRII	!CCWGG	16	88; 281; 785; 929; 944; 1073; 1877; 2826; 2881; 2898; 3677; 4256; 4359; 5049; 5062; 5183
EcoRV	GAT!ATC	1	1412
EcoT14I	C!CWWGG	6	360; 611; 3021; 3114; 3724; 4129
EcoT22I	ATGCA!T	3	2864; 2936; 5267
EcoT38I	GRGCY!C	3	2483; 3657; 4367
Eco53kl	GAG!CTC	0	
EgeI	GGC!GCC	1	3293
EheI	GGC!GCC	1	3293
ErhI	C!CWWGG	6	360; 611; 3021; 3114; 3724; 4129
EsaBC3I	TC!GA	14	753; 780; 1248; 2442; 3133; 3406; 3562; 3586; 3622; 3784; 3975; 4020; 4275; 5113
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	1	1042
FaeI	CATG!	25	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1403; 2722; 2862; 2934; 3025; 3166; 3511; 3697; 3728; 3754; 4110; 4494; 5214; 5265
Fail	YA!TR	71	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 640; 646; 658; 736; 802; 882; 900; 1086; 1093; 1146; 1401; 1445; 1469; 1483; 1500; 1502; 1541; 1811; 1923; 1954; 1964; 2030; 2075; 2280; 2708; 2720; 2851; 2860; 2923; 2932; 2956; 3023; 3047; 3164; 3228; 3509; 3534; 3695; 3726; 3752; 3824; 4040; 4108; 4186; 4238; 4399; 4416; 4418; 4420; 4492; 4770; 4959; 5075; 5148; 5212; 5263
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	879; 3632
FalI	!NNNNNNNNAAGNNNNNCTT	2	847; 3600
FaqI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1704; 3443; 3975; 4084
FaqI	!NNNNNNNNNNNNNGTCCC	4	2808; 2880; 2944; 4239
FatI	!CATG	25	300; 360; 611; 638; 644; 656; 734; 800; 880; 1084; 1091; 1399; 2718; 2858; 2930; 3021; 3162; 3507; 3693; 3724; 3750; 4106; 4490; 5210; 5261
FauI	CCCGCNNNN!	10	93; 119; 286; 1068; 1170; 2614; 2969; 2990; 4186; 4318
FauI	!NNNNNNGCGGG	6	1105; 2545; 3415; 3952; 4090; 4237
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	1949

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FblI	GT!MKAC	1	1190
FmuI	GGNC!C	14	86; 279; 763; 1006; 1098; 1119; 1203; 1788; 2402; 3811; 4256; 4302; 4360; 4393
Fnu4HI	GC!NGC	36	759; 810; 954; 1071; 1252; 1874; 1905; 1918; 2069; 2588; 2610; 2624; 3062; 3201; 3253; 3264; 3354; 3359; 3396; 3437; 3524; 3527; 3530; 3766; 3862; 3903; 3917; 4031; 4370; 4385; 4596; 4802; 4805; 4870; 5013; 5168
FokI	GGATGNNNNNNNNN!	4	3159; 3616; 3641; 4095
FokI	!NNNNNNNNNNNNNNCATCC	4	681; 769; 826; 2965
FriOI	GRGCY!C	3	2483; 3657; 4367
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3394
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1585; 1940; 2141; 2559; 3115; 4130; 4464; 4717
FspEI	CCNNNNNNNNNNNN!	173	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 656; 681; 711; 728; 742; 775; 789; 807; 831; 845; 876; 909; 936; 951; 970; 1006; 1053; 1072; 1087; 1110; 1132; 1147; 1167; 1186; 1216; 1242; 1284; 1335; 1356; 1420; 1448; 1463; 1511; 1568; 1622; 1658; 1672; 1688; 1729; 1752; 1769; 1800; 1855; 1890; 1907; 1944; 1975; 2014; 2028; 2169; 2264; 2288; 2311; 2334; 2352; 2374; 2395; 2414; 2433; 2462; 2483; 2497; 2523; 2611; 2637; 2686; 2727; 2745; 2784; 2800; 2838; 2895; 2910; 2967; 2987; 3001; 3018; 3032; 3069; 3084; 3127; 3210; 3277; 3308; 3328; 3343; 3388; 3402; 3468; 3482; 3501; 3517; 3558; 3578; 3625; 3675; 3691; 3711; 3736; 3756; 3779; 3806; 3824; 3850; 3890; 3916; 3940; 3996; 4010; 4038; 4081; 4102; 4137; 4181; 4269; 4293; 4315; 4335; 4351; 4372; 4386; 4405; 4489; 4509; 4537; 4552; 4586; 4628; 4655; 4670; 4715; 4739; 4753; 4775; 4801; 4821; 4845; 4871; 4919; 4938; 4957; 4983; 5018; 5063; 5093; 5107; 5158; 5172; 5197; 5213; 5234; 5263
FspEI	!NNNNNNNNNNNNNNNGG	142	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 616; 643; 685; 706; 730; 772; 791; 820; 856; 893; 916; 935; 958; 986; 1013; 1052; 1078; 1097; 1169; 1195; 1243; 1268; 1286; 1307; 1331; 1360; 1423; 1472; 1493; 1511; 1585; 1623; 1673; 1768; 1798; 1823; 1855; 1893; 1919; 1963; 2063; 2132; 2240; 2289; 2311; 2339; 2375; 2420; 2449; 2485; 2504; 2532; 2552; 2615; 2638; 2746; 2778; 2796; 2825; 2868; 2897; 3008; 3037; 3080; 3101; 3129; 3162; 3182; 3207; 3234; 3259; 3281; 3309; 3335; 3356; 3407; 3428; 3446; 3494; 3530; 3586; 3611; 3635; 3664; 3687; 3711; 3737; 3759; 3778; 3803; 3843; 3879; 3944; 4029; 4053; 4082; 4116; 4137; 4157; 4202; 4229; 4248; 4281; 4333; 4364; 4391; 4443; 4541; 4612; 4657; 4718; 4783; 4817; 4843; 4861; 4897; 4967; 4990; 5012; 5036; 5069; 5117; 5152; 5170; 5227
Fsp4HI	GC!NGC	36	759; 810; 954; 1071; 1252; 1874; 1905; 1918; 2069; 2588; 2610; 2624; 3062; 3201; 3253; 3264; 3354; 3359; 3396; 3437; 3524; 3527; 3530; 3766; 3862; 3903; 3917; 4031; 4370; 4385; 4596; 4802; 4805; 4870; 5013; 5168
GdiII	C!GGCCR	1	3198
GdiII	Y!GGCCG	3	3198; 3763; 3790
GlaI	GC!GC	23	596; 1083; 1290; 2557; 2565; 2591; 2613; 2622; 2635; 2666; 3285; 3293; 3357; 3394; 3660; 3920; 4096; 4182; 4585; 4694; 4868; 4968; 5035
GluI	GC!NGC	36	759; 810; 954; 1071; 1252; 1874; 1905; 1918; 2069; 2588; 2610; 2624; 3062; 3201; 3253; 3264; 3354; 3359; 3396; 3437; 3524; 3527; 3530; 3766; 3862; 3903; 3917; 4031; 4370; 4385; 4596; 4802; 4805; 4870; 5013; 5168
GsaI	CCCAG!C	4	997; 2839; 2911; 4910
GsaI	GCTGG!G	2	1035; 3800
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	2	1900; 4132
GsuI	!NNNNNNNNNNNNNNNCTCCAG	4	928; 1748; 1871; 4075
HaeI	WGG!CCW	8	1039; 1270; 1841; 3113; 3374; 4736; 5188; 5199
HaeII	RGCGC!Y	6	598; 1292; 2559; 2567; 3295; 4970
HaeIII	GG!CC	29	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1786; 1841; 2258; 2400; 3055; 3061; 3070; 3113; 3200; 3374; 3765; 3792; 4301; 4358; 4391; 4736; 5170; 5188; 5199
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1967; 3488
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1933; 3454
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1966; 3487

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1935; 3456
HapII	C!CGG	21	601; 835; 1184; 1322; 1934; 2510; 3197; 3274; 3296; 3324; 3455; 3545; 3612; 3793; 4068; 4076; 4168; 4642; 4832; 4858; 5005
HgaI	GACGCNNNNN!	3	526; 4002; 4081
HgaI	!NNNNNNNNNGCGTC	4	1176; 2625; 4520; 5098
HhaI	GCG!C	23	597; 1084; 1291; 2558; 2566; 2592; 2614; 2623; 2636; 2667; 3286; 3294; 3358; 3395; 3661; 3921; 4097; 4183; 4586; 4695; 4869; 4969; 5036
Hin1I	GR!CGYC	8	122; 175; 258; 444; 1187; 3292; 3994; 4073
Hin1III	CATG!	25	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1403; 2722; 2862; 2934; 3025; 3166; 3511; 3697; 3728; 3754; 4110; 4494; 5214; 5265
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1734; 1966; 3487
Hin4I	!NNNNNNNGABNNNNNRTC	3	1934; 3455; 3485
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1966; 3487; 3517
Hin4I	!NNNNNNNGAYNNNNNVTC	3	1702; 1934; 3455
Hin6I	G!CGC	23	595; 1082; 1289; 2556; 2564; 2590; 2612; 2621; 2634; 2665; 3284; 3292; 3356; 3393; 3659; 3919; 4095; 4181; 4584; 4693; 4867; 4967; 5034
HinP1I	G!CGC	23	595; 1082; 1289; 2556; 2564; 2590; 2612; 2621; 2634; 2665; 3284; 3292; 3356; 3393; 3659; 3919; 4095; 4181; 4584; 4693; 4867; 4967; 5034
HincII	GTY!RAC	1	2055
HindII	GTY!RAC	1	2055
HindIII	A!AGCTT	0	
Hinfl	G!ANTC	17	410; 740; 890; 1217; 1325; 1671; 1692; 2335; 2357; 2767; 3777; 3911; 3963; 4021; 4058; 4840; 5236
HpaI	GTT!AAC	1	2055
HpaII	C!CGG	21	601; 835; 1184; 1322; 1934; 2510; 3197; 3274; 3296; 3324; 3455; 3545; 3612; 3793; 4068; 4076; 4168; 4642; 4832; 4858; 5005
HphI	GGTGANNNNNNN!	6	376; 627; 996; 1306; 4363; 4479
HphI	!NNNNNNNTCACC	4	885; 1648; 2409; 3470
Hpy8I	GTN!NAC	13	201; 539; 577; 672; 692; 987; 1191; 1200; 2055; 2339; 2356; 2411; 4898
Hpy99I	CGWCG!	10	754; 1234; 1249; 3382; 3410; 3704; 3719; 3996; 4381; 5114
Hpy166II	GTN!NAC	13	201; 539; 577; 672; 692; 987; 1191; 1200; 2055; 2339; 2356; 2411; 4898
Hpy188I	TCN!GA	15	585; 699; 1330; 1440; 1708; 2466; 3075; 3259; 3603; 3956; 4057; 4536; 4670; 5023; 5101
Hpy188III	TC!NNGA	25	1176; 1322; 1407; 1765; 1888; 1940; 2719; 2771; 3084; 3137; 3310; 3626; 3635; 3718; 3774; 3818; 3908; 3941; 4010; 4491; 4565; 4648; 4746; 4844; 4978
HpyAV	CCTTCNNNNN!	6	780; 828; 873; 3937; 4044; 4723
HpyAV	!NNNNNGAAGG	10	700; 1072; 1791; 2525; 3420; 4149; 4165; 4348; 4665; 4975
HpyCH4III	ACN!GT	17	76; 198; 269; 543; 581; 669; 1455; 1479; 1663; 2383; 3672; 3788; 3896; 4219; 4710; 5180; 5251
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 1625; 2352; 2364; 2407; 2517; 3408; 3595; 4376; 4509
HpyCH4V	TG!CA	23	692; 1014; 1130; 1353; 1471; 1525; 1825; 2041; 2068; 2136; 2853; 2862; 2925; 2934; 3049; 3125; 3184; 3343; 3518; 3532; 4602; 4898; 5265
HpyF3I	C!TNAG	11	869; 1327; 1558; 1646; 1705; 2772; 3074; 3955; 4404; 4527; 4936
HpyF10VI	GCNNNNN!NNGC	28	90; 212; 244; 283; 376; 400; 648; 1079; 1870; 2519; 2549; 2576; 2618; 2859; 2931; 2982; 3061; 3283; 3367; 3390; 3529; 3652; 3735; 4002; 4189; 4393; 4592; 5164
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 1187; 3292; 3994; 4073
Hsp92II	CATG!	25	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1403; 2722; 2862; 2934; 3025; 3166; 3511; 3697; 3728; 3754; 4110; 4494; 5214; 5265
HspAI	G!CGC	23	595; 1082; 1289; 2556; 2564; 2590; 2612; 2621; 2634; 2665; 3284; 3292; 3356; 3393; 3659; 3919; 4095; 4181; 4584; 4693; 4867; 4967; 5034
KasI	G!GCGCC	1	3291
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kpn2I	T!CCGGA	1	1321
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	1949
KspAI	GTT!AAC	1	2055
Kzo9I	!GATC	24	585; 1124; 1150; 1330; 1701; 1927; 1936; 1949; 3129; 3133; 3152; 3463; 3541; 3622; 3631; 3709; 4085; 4101; 4460; 4472; 4550; 4558; 4569; 4644
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	1894; 3636; 3846
LpnI	RGC!GCGY	6	596; 1290; 2557; 2565; 3293; 4968
LpnPI	CCDGNNNNNNNNN!	66	102; 295; 614; 742; 799; 848; 881; 943; 958; 1007; 1087; 1111; 1135; 1197; 1284; 1335; 1420; 1658; 1778; 1807; 1891; 1947; 2029; 2334; 2523; 2746; 2784; 2800; 2840; 2895; 2912; 3012; 3097; 3210; 3287; 3309; 3332; 3468; 3482; 3501; 3558; 3625; 3675; 3691; 3748; 3806; 4015; 4081; 4105; 4181; 4270; 4373; 4406; 4637; 4655; 4801; 4821; 4845; 4871; 4920; 5018; 5063; 5093; 5172; 5197; 5234
LpnPI	!NNNNNNNNNNNNNNCHGG	60	75; 268; 552; 586; 772; 820; 916; 1017; 1060; 1169; 1195; 1268; 1307; 1331; 1511; 1768; 1864; 1893; 1919; 2375; 2495; 2552; 2615; 2813; 2825; 2885; 2897; 3129; 3174; 3217; 3259; 3281; 3309; 3356; 3418; 3440; 3530; 3597; 3620; 3664; 3759; 3778; 3803; 3952; 4053; 4096; 4153; 4243; 4346; 4373; 4391; 4627; 4664; 4817; 4843; 4983; 5001; 5036; 5117; 5170
Lsp1109I	GCAGCNNNNNNNN!	8	821; 1263; 2080; 3365; 3407; 3928; 4381; 4881
Lsp1109I	!NNNNNNNNNNNNNGCTGC	9	940; 1860; 1904; 2574; 3239; 3423; 3516; 4582; 4788
LweI	GCATCNNNNN!	7	848; 2108; 2871; 2943; 3591; 3655; 3930
LweI	!NNNNNNNNNGATGC	7	357; 1001; 1169; 3250; 3505; 3721; 5113
MabI	A!CCWGGT	1	2881
MaeI	C!TAG	9	592; 1585; 1940; 2141; 2559; 3115; 4130; 4464; 4717
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 1625; 2352; 2364; 2407; 2517; 3408; 3595; 4376; 4509
MaeIII	!GTNAC	16	61; 148; 497; 891; 1087; 1473; 1789; 2080; 2581; 2593; 3412; 3718; 4408; 4674; 4790; 4853
MalI	GA!TC	24	587; 1126; 1152; 1332; 1703; 1929; 1938; 1951; 3131; 3135; 3154; 3465; 3543; 3624; 3633; 3711; 4087; 4103; 4462; 4474; 4552; 4560; 4571; 4646
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2716; 3905
MbiI	GAG!CGG	2	2552; 3959
MboI	!GATC	24	585; 1124; 1150; 1330; 1701; 1927; 1936; 1949; 3129; 3133; 3152; 3463; 3541; 3622; 3631; 3709; 4085; 4101; 4460; 4472; 4550; 4558; 4569; 4644
MboII	GAAGANNNNNNNN!	8	916; 1029; 1908; 2548; 2776; 3653; 3863; 4482
MboII	!NNNNNNNTCTTC	5	1604; 3943; 4110; 4310; 4553
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2042
MflI	R!GATCY	12	585; 1150; 1330; 1927; 1936; 3463; 3709; 4101; 4460; 4472; 4558; 4569
MhII	GDGCH!C	11	667; 694; 727; 2483; 3238; 3331; 3405; 3595; 3657; 4367; 4900
MisI	TGG!CCA	2	1270; 3374
MluI	A!CGCGT	1	2178
MluNI	TGG!CCA	2	1270; 3374
MlyI	GAGTCNNNNN!	3	899; 2344; 2776
MlyI	!NNNNNGACTC	7	404; 1319; 1665; 1686; 2351; 3957; 4834
Mly113I	GG!CGCC	1	3292
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	1	2385
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	4817; 5001
MnlI	CCTCNNNNNNN!	15	773; 842; 952; 967; 1050; 1183; 1728; 1895; 2011; 3075; 3893; 4099; 4413; 4783; 5107
MnlI	!NNNNNNGAGG	26	541; 654; 693; 714; 747; 864; 973; 1029; 1218; 1251; 1294; 1306; 1527; 1918; 1971; 2436; 2767; 3045; 3088; 3103; 3143; 3207; 3343; 3700; 4130; 5033
Mph1103I	ATGCA!T	3	2864; 2936; 5267
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1321
MroNI	G!CCGGC	3	2509; 3792; 4075

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	2	1270; 3374
MseI	T!TAA	18	7; 629; 854; 1361; 1993; 2054; 2175; 2196; 2207; 2219; 2230; 2247; 2345; 2616; 4435; 4449; 4454; 4506
MslI	CAYNN!NNRTG	5	365; 613; 643; 1480; 3729
MspI	C!CGG	21	601; 835; 1184; 1322; 1934; 2510; 3197; 3274; 3296; 3324; 3455; 3545; 3612; 3793; 4068; 4076; 4168; 4642; 4832; 4858; 5005
Msp20I	TGG!CCA	2	1270; 3374
MspA1I	CMG!CKG	6	1063; 1557; 2790; 3398; 4627; 4872
MspCI	C!TTAAG	0	
MspJI	CNNRRNNNNNNNNN!	265	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; 633; 651; 669; 699; 717; 732; 747; 765; 798; 813; 837; 856; 880; 893; 909; 927; 941; 957; 970; 984; 1005; 1018; 1039; 1058; 1072; 1086; 1104; 1117; 1134; 1147; 1161; 1174; 1188; 1209; 1222; 1241; 1260; 1283; 1304; 1334; 1356; 1412; 1427; 1440; 1462; 1488; 1511; 1538; 1557; 1570; 1586; 1638; 1657; 1678; 1692; 1706; 1719; 1747; 1762; 1777; 1795; 1818; 1840; 1854; 1872; 1890; 1906; 1920; 1946; 1960; 1975; 1999; 2016; 2029; 2070; 2084; 2097; 2115; 2153; 2168; 2186; 2227; 2251; 2271; 2289; 2310; 2333; 2365; 2380; 2402; 2420; 2433; 2454; 2471; 2484; 2497; 2513; 2526; 2556; 2571; 2596; 2614; 2627; 2642; 2666; 2680; 2704; 2729; 2745; 2783; 2799; 2838; 2852; 2866; 2894; 2910; 2924; 2938; 2967; 2980; 3001; 3010; 3032; 3062; 3078; 3096; 3126; 3149; 3173; 3197; 3216; 3244; 3270; 3286; 3299; 3322; 3336; 3356; 3369; 3383; 3402; 3416; 3429; 3445; 3460; 3473; 3489; 3504; 3520; 3545; 3564; 3580; 3593; 3606; 3624; 3638; 3652; 3668; 3690; 3706; 3725; 3747; 3763; 3786; 3805; 3819; 3835; 3849; 3869; 3885; 3898; 3920; 3953; 3967; 3987; 4000; 4014; 4068; 4081; 4104; 4117; 4136; 4153; 4180; 4216; 4249; 4268; 4293; 4314; 4341; 4354; 4371; 4385; 4400; 4416; 4476; 4501; 4517; 4539; 4552; 4566; 4597; 4611; 4636; 4654; 4669; 4682; 4701; 4714; 4729; 4758; 4777; 4795; 4820; 4835; 4854; 4870; 4889; 4907; 4923; 4937; 4956; 4983; 5006; 5028; 5047; 5062; 5075; 5092; 5112; 5139; 5152; 5171; 5196; 5219; 5233; 5246; 5263
MspJI	!NNNNNNNNNNNNNYNG	216	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 598; 616; 643; 673; 697; 715; 739; 758; 780; 811; 830; 854; 887; 916; 958; 980; 1013; 1033; 1060; 1078; 1095; 1113; 1141; 1162; 1183; 1207; 1229; 1252; 1269; 1307; 1328; 1348; 1377; 1424; 1445; 1468; 1493; 1512; 1536; 1571; 1604; 1625; 1666; 1692; 1714; 1751; 1769; 1792; 1841; 1864; 1894; 1920; 1944; 1973; 2002; 2044; 2127; 2165; 2189; 2212; 2241; 2285; 2307; 2339; 2375; 2392; 2413; 2450; 2470; 2487; 2504; 2539; 2557; 2575; 2592; 2616; 2638; 2665; 2693; 2719; 2757; 2778; 2795; 2813; 2836; 2857; 2885; 2908; 2929; 2947; 2968; 2985; 3008; 3032; 3052; 3070; 3092; 3123; 3145; 3171; 3190; 3207; 3235; 3254; 3273; 3291; 3309; 3330; 3352; 3376; 3409; 3429; 3447; 3468; 3494; 3521; 3538; 3555; 3572; 3598; 3620; 3642; 3660; 3680; 3699; 3721; 3759; 3779; 3803; 3823; 3843; 3870; 3894; 3927; 3946; 3974; 3996; 4025; 4053; 4078; 4097; 4116; 4137; 4154; 4171; 4202; 4229; 4249; 4272; 4292; 4329; 4346; 4365; 4391; 4411; 4450; 4477; 4496; 4514; 4551; 4569; 4610; 4628; 4654; 4671; 4703; 4732; 4760; 4781; 4804; 4823; 4844; 4862; 4879; 4897; 4923; 4944; 4964; 4984; 5002; 5023; 5049; 5066; 5085; 5104; 5133; 5152; 5170; 5189; 5207; 5225; 5248
MspR9I	CC!NGG	22	90; 283; 787; 836; 931; 946; 1075; 1184; 1879; 2828; 2883; 2900; 3296; 3456; 3679; 4069; 4258; 4361; 4833; 5051; 5064; 5185
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2042
MvaI	CC!WGG	16	90; 283; 787; 931; 946; 1075; 1879; 2828; 2883; 2900; 3679; 4258; 4361; 5051; 5064; 5185
Mva1269I	GAATGCN!	2	1355; 2043
Mva1269I	G!CATTC	1	2136
MvnI	CG!CG	15	60; 2180; 2216; 2592; 2612; 2636; 2667; 3358; 3659; 4097; 4181; 4244; 4313; 4586; 5167
MvrI	CGAT!CG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MwoI	GCNNNNN!NNGC	28	90; 212; 244; 283; 376; 400; 648; 1079; 1870; 2519; 2549; 2576; 2618; 2859; 2931; 2982; 3061; 3283; 3367; 3390; 3529; 3652; 3735; 4002; 4189; 4393; 4592; 5164
NaeI	GCC!GGC	3	2511; 3794; 4077
NarI	GG!CGCC	1	3292
NciI	CC!SGG	6	836; 1184; 3296; 3456; 4069; 4833
NcoI	C!CATGG	4	360; 611; 3021; 3724
NdeI	CA!TATG	1	234
NdeII	!GATC	24	585; 1124; 1150; 1330; 1701; 1927; 1936; 1949; 3129; 3133; 3152; 3463; 3541; 3622; 3631; 3709; 4085; 4101; 4460; 4472; 4550; 4558; 4569; 4644
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	2	731; 1644
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	2	767; 1680
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	2509; 3792; 4075
NheI	G!CTAGC	1	591
NlaIII	CATG!	25	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1403; 2722; 2862; 2934; 3025; 3166; 3511; 3697; 3728; 3754; 4110; 4494; 5214; 5265
NlaIV	GGN!NCC	22	467; 666; 726; 1117; 1320; 1341; 1643; 1883; 1929; 2447; 2468; 2480; 2671; 2832; 2904; 3293; 3328; 4176; 4255; 4300; 5143; 5182
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2124; 2439; 4031
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 991; 1277; 5103
Nli3877I	CYCGR!G	0	
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3081; 3517
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1007; 3046
NmeDI	RCCGGYNNNNNNN!	5	612; 2521; 3623; 3804; 4087
NmeDI	!NNNNNNNNNNNNRCCGGY	5	587; 2496; 3598; 3779; 4062
NmuCI	!GTSAC	7	891; 1087; 1473; 1789; 2581; 3412; 3718
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3394
NsiI	ATGCA!T	3	2864; 2936; 5267
NspI	RCATG!Y	7	642; 1088; 1403; 2862; 2934; 3697; 5214
NspV	TT!CGAA	1	3974
OliI	CACNN!NNGTG	1	613
PabI	GTA!C	11	220; 245; 300; 333; 384; 541; 656; 806; 1058; 1449; 3599
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2862; 2934; 3697
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	2	2718; 4490
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4257; 4360
PauI	G!CGCGC	0	
PceI	AGG!CCT	3	1039; 1841; 3113
PciI	A!CATGT	2	1399; 5210
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	1894; 3636; 3846
PcsI	WCGNNNN!NNNCGW	7	1253; 3586; 3663; 3906; 3980; 4373; 4891
PctI	GAATGCN!	2	1355; 2043
PctI	G!CATTC	1	2136
PdiI	GCC!GGC	3	2511; 3794; 4077
PdmI	GAANN!NN TTC	0	
PfeI	G!AWTC	7	740; 1217; 3777; 3911; 4021; 4058; 5236
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3410
PfIMI	CCANNNN!NTGG	1	1209
PfoI	T!CCNGGA	2	944; 4067
PhoI	GG!CC	29	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1786; 1841; 2258; 2400; 3055; 3061; 3070; 3113; 3200; 3374; 3765; 3792; 4301; 4358; 4391; 4736; 5170; 5188; 5199
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3673
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	3238; 3493

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PleI	GAGTCNNNN!	3	898; 2343; 2775
PleI	!NNNNNGACTC	7	404; 1319; 1665; 1686; 2351; 3957; 4834
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	2374
PpiI	!NNNNNNNGAGNNNNNGTTC	1	4504
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4536
PpiI	!NNNNNNNGAACNNNNNCTC	1	2342
PpsI	GAGTCNNNN!	3	898; 2343; 2775
PpsI	!NNNNNGACTC	7	404; 1319; 1665; 1686; 2351; 3957; 4834
Ppu10I	A!TGCAT	3	2860; 2932; 5263
Ppu21I	YAC!GTR	3	340; 2408; 3596
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	2	1399; 5210
PshAI	GACNN!NNGTC	1	1243
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2075; 2280
Psp03I	GGWC!C	3	1203; 3811; 4256
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	16	88; 281; 785; 929; 944; 1073; 1877; 2826; 2881; 2898; 3677; 4256; 4359; 5049; 5062; 5183
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	16	88; 281; 785; 929; 944; 1073; 1877; 2826; 2881; 2898; 3677; 4256; 4359; 5049; 5062; 5183
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 666; 726; 1117; 1320; 1341; 1643; 1883; 1929; 2447; 2468; 2480; 2671; 2832; 2904; 3293; 3328; 4176; 4255; 4300; 5143; 5182
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 3022; 4021
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	1	3424
PspPI	G!GNCC	14	83; 276; 760; 1003; 1095; 1116; 1200; 1785; 2399; 3808; 4253; 4299; 4357; 4390
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	2845; 2917; 4423
PspPRI	!NNNNNNNNNNNNNCTGRGG	3	855; 2758; 3953
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNTAC	0	
PssI	RGNC!CY	1	4393
PstI	CTGCA!G	1	1527
PstNI	CAGNN!CTG	3	1771; 4393; 4801
PsuI	R!GATCY	12	585; 1150; 1330; 1927; 1936; 3463; 3709; 4101; 4460; 4472; 4558; 4569
PsyI	GACN!NNGTC	1	3410
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2790; 3398
RcaI	T!CATGA	2	2718; 4490
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3807
RceI	!NNNNNNNNNNNNNNNNNGTTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	2021
RleAI	!NNNNNNNNNTGTGGG	1	1364
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	11	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1448; 3598
RsaNI	G!TAC	11	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1447; 3597
RseI	CAYNN!NNRTG	5	365; 613; 643; 1480; 3729
RsrII	CG!GWCCG	1	3808
Rsr2I	CG!GWCCG	1	3808
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	3	1894; 3636; 3846
SaqAI	T!TAA	18	7; 629; 854; 1361; 1993; 2054; 2175; 2196; 2207; 2219; 2230; 2247; 2345; 2616; 4435; 4449; 4454; 4506
SatI	GC!NGC	36	759; 810; 954; 1071; 1252; 1874; 1905; 1918; 2069; 2588; 2610; 2624; 3062; 3201; 3253; 3264; 3354; 3359; 3396; 3437; 3524; 3527; 3530; 3766; 3862; 3903; 3917; 4031; 4370; 4385; 4596; 4802; 4805; 4870; 5013; 5168
Sau96I	G!GNCC	14	83; 276; 760; 1003; 1095; 1116; 1200; 1785; 2399; 3808; 4253; 4299; 4357; 4390
Sau3AI	!GATC	24	585; 1124; 1150; 1330; 1701; 1927; 1936; 1949; 3129; 3133; 3152; 3463; 3541; 3622; 3631; 3709; 4085; 4101; 4460; 4472; 4550; 4558; 4569; 4644
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	899; 2344; 2776
SchI	!NNNNNGACTC	7	404; 1319; 1665; 1686; 2351; 3957; 4834
SciI	CTC!GAG	0	
ScrFI	CC!NGG	22	90; 283; 787; 836; 931; 946; 1075; 1184; 1879; 2828; 2883; 2900; 3296; 3456; 3679; 4069; 4258; 4361; 4833; 5051; 5064; 5185
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	6	1041; 1776; 2870; 2942; 3111; 5053
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	1385; 3447; 3932
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	1	1645
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	1	1679
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	11	667; 694; 727; 2483; 3238; 3331; 3405; 3595; 3657; 4367; 4900
SelI	!CGCG	15	58; 2178; 2214; 2590; 2610; 2634; 2665; 3356; 3657; 4095; 4179; 4242; 4311; 4584; 5165
SetI	ASST!	71	125; 137; 178; 261; 308; 342; 447; 552; 568; 626; 653; 749; 799; 820; 971; 977; 1106; 1124; 1136; 1175; 1199; 1243; 1247; 1262; 1305; 1311; 1320; 1628; 1784; 1796; 1912; 1982; 2003; 2012; 2024; 2073; 2240; 2355; 2367; 2410; 2447; 2497; 2520; 2644; 2792; 2887; 3080; 3193; 3321; 3400; 3411; 3483; 3554; 3598; 3858; 4004; 4048; 4379; 4410; 4469; 4512; 4655; 4676; 4775; 4912; 4927; 4946; 4958; 5002; 5048; 5099
SexAI	A!CCWGGT	1	2881
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	848; 2108; 2871; 2943; 3591; 3655; 3930
SfaNI	!NNNNNNNNNGATGC	7	357; 1001; 1169; 3250; 3505; 3721; 5113
SfcI	C!TRYAG	4	1523; 2627; 4754; 4945
SfiI	GGCCNNNN!NGGCC	1	3067
SfoI	GGC!GCC	1	3293
Sfr274I	C!TCGAG	0	
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	1	3974

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	201	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 651; 669; 699; 723; 741; 756; 798; 813; 837; 856; 880; 893; 921; 942; 957; 984; 1006; 1039; 1059; 1072; 1086; 1104; 1117; 1134; 1147; 1167; 1188; 1209; 1222; 1260; 1283; 1304; 1334; 1358; 1412; 1519; 1538; 1597; 1638; 1657; 1692; 1747; 1777; 1795; 1818; 1890; 1920; 1946; 1999; 2028; 2070; 2153; 2191; 2227; 2311; 2333; 2365; 2402; 2420; 2439; 2454; 2496; 2513; 2530; 2565; 2579; 2596; 2618; 2642; 2666; 2731; 2745; 2783; 2799; 2839; 2852; 2871; 2894; 2911; 2924; 2943; 2973; 2994; 3011; 3034; 3069; 3096; 3127; 3149; 3175; 3197; 3216; 3244; 3280; 3299; 3322; 3336; 3356; 3369; 3383; 3402; 3416; 3435; 3467; 3481; 3494; 3520; 3551; 3564; 3581; 3598; 3612; 3629; 3647; 3662; 3690; 3706; 3725; 3747; 3763; 3786; 3805; 3830; 3849; 3869; 3896; 3920; 3953; 3972; 4000; 4014; 4080; 4104; 4119; 4142; 4163; 4180; 4228; 4255; 4269; 4298; 4322; 4355; 4372; 4392; 4405; 4418; 4476; 4503; 4522; 4552; 4577; 4597; 4611; 4636; 4654; 4691; 4729; 4758; 4786; 4800; 4820; 4835; 4856; 4870; 4889; 4907; 4923; 4963; 4983; 5010; 5028; 5049; 5062; 5075; 5092; 5116; 5139; 5171; 5196; 5223; 5245
SgeI	!NNNNNNNNNNNNNCNNG	178	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 625; 643; 673; 697; 715; 739; 772; 811; 830; 854; 895; 916; 958; 980; 1013; 1033; 1060; 1078; 1099; 1121; 1141; 1162; 1183; 1207; 1234; 1257; 1278; 1308; 1332; 1386; 1493; 1512; 1571; 1612; 1631; 1666; 1721; 1751; 1769; 1792; 1864; 1894; 1920; 1973; 2002; 2044; 2127; 2165; 2201; 2285; 2307; 2339; 2376; 2394; 2413; 2470; 2487; 2504; 2539; 2557; 2577; 2597; 2616; 2640; 2705; 2757; 2813; 2845; 2868; 2885; 2917; 2947; 2968; 2985; 3008; 3043; 3070; 3101; 3123; 3149; 3171; 3190; 3218; 3254; 3273; 3296; 3317; 3335; 3352; 3376; 3409; 3441; 3468; 3494; 3525; 3555; 3572; 3598; 3621; 3642; 3664; 3684; 3704; 3721; 3760; 3779; 3804; 3823; 3843; 3870; 3894; 3927; 3946; 3974; 3996; 4054; 4078; 4097; 4116; 4137; 4154; 4202; 4229; 4249; 4272; 4296; 4329; 4346; 4366; 4392; 4450; 4477; 4496; 4526; 4551; 4571; 4610; 4628; 4665; 4703; 4732; 4760; 4781; 4809; 4830; 4863; 4881; 4937; 4957; 4984; 5002; 5023; 5049; 5066; 5090; 5113; 5145; 5170; 5197; 5219; 5248
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2439; 4226; 5019
SimI	!GACCC	5	106; 1713; 3720; 4288; 4536
SinI	G!GWCC	3	1200; 3808; 4253
SlaI	C!TCGAG	0	
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 613; 643; 1480; 3729
SmiI	C!TYRAG	6	1135; 1174; 3683; 4565; 4842; 5104
SmoI	C!TYRAG	6	1135; 1174; 3683; 4565; 4842; 5104
SmuI	CCCGCNNNN!	10	93; 119; 286; 1068; 1170; 2614; 2969; 2990; 4186; 4318
SmuI	!NNNNNNGCGGG	6	1105; 2545; 3415; 3952; 4090; 4237
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2862; 2934; 3697
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	13	18; 1358; 1429; 1697; 2042; 2106; 2184; 2210; 2221; 2868; 2940; 3032; 4450
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	3	1039; 1841; 3113
SsiI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1343; 1555; 1905; 2607; 2610; 2624; 2714; 2962; 2974; 2983; 2995; 3005; 3016; 3062; 3201; 3264; 3766; 3811; 3877; 3903; 4028; 4031; 4179; 4311; 4618; 4762; 5258
SsiI	G!CGG	26	370; 403; 528; 758; 1070; 1112; 2552; 2579; 2667; 2777; 3358; 3422; 3523; 3526; 3806; 3861; 3959; 4097; 4244; 4384; 4627; 4872; 4993; 5012; 5139; 5167

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SspI	AAT!ATT	3	1868; 2200; 2753
SspDI	G!GCGCC	1	3291
SspD5I	GGTGANNNNNNNN!	6	376; 627; 996; 1306; 4363; 4479
SspD5I	!NNNNNNNNNTCACC	4	884; 1647; 2408; 3469
SstI	GAGCT!C	0	
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	929
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	20	92; 118; 285; 851; 1067; 1169; 1190; 1794; 2491; 2613; 2968; 2989; 3302; 3705; 3844; 3915; 4185; 4317; 4547; 4985
Sth132I	!NNNNNNNNNCGGG	21	15; 407; 470; 827; 900; 1104; 2492; 2544; 2645; 3372; 3414; 3447; 3951; 4060; 4089; 4236; 4340; 4371; 4824; 4868; 5076
Sth302II	CC!GG	21	602; 836; 1185; 1323; 1935; 2511; 3198; 3275; 3297; 3325; 3456; 3546; 3613; 3794; 4069; 4077; 4169; 4643; 4833; 4859; 5006
StrI	C!TCGAG	0	
StsI	GGATGNNNNNNNNNN!	4	3160; 3617; 3642; 4096
StsI	!NNNNNNNNNNNNNNCATCC	4	680; 768; 825; 2964
StuI	AGG!CCT	3	1039; 1841; 3113
StyI	C!CWWGG	6	360; 611; 3021; 3114; 3724; 4129
StyD4I	!CCNGG	22	88; 281; 785; 834; 929; 944; 1073; 1182; 1877; 2826; 2881; 2898; 3294; 3454; 3677; 4067; 4256; 4359; 4831; 5049; 5062; 5183
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	17	76; 198; 269; 543; 581; 669; 1455; 1479; 1663; 2383; 3672; 3788; 3896; 4219; 4710; 5180; 5251
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 971; 1199; 1247; 1628; 2355; 2367; 2410; 2520; 3411; 3598; 4379; 4512
TaqI	T!CGA	14	752; 779; 1247; 2441; 3132; 3405; 3561; 3585; 3621; 3783; 3974; 4019; 4274; 5112
TaqII	GACCGANNNNNNNNNN!	3	2312; 3329; 3997
TaqII	!NNNNNNNNNTCGGTC	1	4241
TaqII	CACCCANNNNNNNNNN!	1	742
TaqII	!NNNNNNNNNTGGGTG	4	172; 1629; 3196; 3788
TasI	!AATT	13	18; 1358; 1429; 1697; 2042; 2106; 2184; 2210; 2221; 2868; 2940; 3032; 4450
TatI	W!GTACW	5	217; 297; 330; 381; 653
TauI	GCSG!C	18	761; 1073; 1907; 2612; 2626; 3064; 3203; 3266; 3361; 3526; 3529; 3768; 3864; 3905; 4033; 4387; 5015; 5170
TfiI	G!AWTC	7	740; 1217; 3777; 3911; 4021; 4058; 5236
TII	C!TCGAG	0	
TruII	T!TAA	18	7; 629; 854; 1361; 1993; 2054; 2175; 2196; 2207; 2219; 2230; 2247; 2345; 2616; 4435; 4449; 4454; 4506
Tru9I	T!TAA	18	7; 629; 854; 1361; 1993; 2054; 2175; 2196; 2207; 2219; 2230; 2247; 2345; 2616; 4435; 4449; 4454; 4506
TscAI	CASTGNN!	7	1604; 1666; 2138; 3421; 4531; 4802; 4815
TseI	G!CWGC	18	809; 953; 1251; 1873; 1917; 2068; 2587; 3252; 3353; 3395; 3436; 3529; 3916; 4369; 4595; 4801; 4804; 4869
TsoI	TARCCANNNNNNNNNN!	2	2264; 2611
TsoI	!NNNNNNNNNTGGYTA	3	778; 2069; 3821
Tsp45I	!GTSAC	7	891; 1087; 1473; 1789; 2581; 3412; 3718
Tsp509I	!AATT	13	18; 1358; 1429; 1697; 2042; 2106; 2184; 2210; 2221; 2868; 2940; 3032; 4450
TspDTI	ATGAANNNNNNNNNN!	4	661; 2050; 3351; 4055
TspDTI	!NNNNNNNNNTTCAT	7	26; 789; 810; 1604; 3769; 4225; 4432
TspEI	!AATT	13	18; 1358; 1429; 1697; 2042; 2106; 2184; 2210; 2221; 2868; 2940; 3032; 4450
TspGWI	ACGGANNNNNNNNNN!	1	4167
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	7	1604; 1666; 2138; 3421; 4531; 4802; 4815
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3410
Tth111II	CAARCCANNNNNNNNNN!	5	841; 1440; 1586; 1762; 4619

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Tth111II	!NNNNNNNNNTGYTTG	4	1672; 3727; 4587; 4626
UnbI	!GGNCC	14	82; 275; 759; 1002; 1094; 1115; 1199; 1784; 2398; 3807; 4252; 4298; 4356; 4389
Van9II	CCANNNN!NTGG	1	1209
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	690; 4896
VpaK11AI	!GGWCC	3	1199; 3807; 4252
VpaK11BI	G!GWCC	3	1200; 3808; 4253
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	1429; 2106; 2210; 2221
XbaI	T!CTAGA	1	1939
XceI	RCATG!Y	7	642; 1088; 1403; 2862; 2934; 3697; 5214
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	0	
XhoII	R!GATCY	12	585; 1150; 1330; 1927; 1936; 3463; 3709; 4101; 4460; 4472; 4558; 4569
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3114; 4129
XmiI	GT!MKAC	1	1190
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	9	592; 1585; 1940; 2141; 2559; 3115; 4130; 4464; 4717
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2864; 2936; 5267