

pFusionRed-CD151 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2283; 2488
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2571; 3527; 5316
AatI	AGG!CCT	2	1039; 3321
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	1190; 2115
AccII	CG!CG	16	60; 2126; 2388; 2424; 2800; 2820; 2844; 2875; 3566; 3867; 4305; 4389; 4452; 4521; 4794; 5375
AccIII	T!CCGGA	1	1321
Acc16I	TGC!GCA	1	3602
Acc36I	ACCTGCNNNN!	4	1403; 1613; 3768; 4218
Acc36I	!NNNNNNNNGCAGGT	2	2031; 3387
Acc65I	G!GTACC	1	2120
AccB1I	G!GYRCC	9	465; 664; 724; 1375; 1504; 2120; 2653; 3499; 3534
AccB7I	CCANNNN!NTGG	1	1209
AccBSI	CCG!CTC	3	1853; 2924; 4113
AccBSI	GAG!CGG	2	2760; 4167
AceIII	CAGCTCNNNNNNN!	1	2456
AceIII	!NNNNNNNNNNGAGCTG	2	552; 610
AciI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1851; 2124; 2815; 2818; 2832; 2922; 3170; 3182; 3191; 3203; 3213; 3224; 3270; 3409; 3472; 3974; 4019; 4085; 4111; 4236; 4239; 4387; 4519; 4826; 4970; 5466
AciI	G!CGG	30	370; 403; 528; 758; 1070; 1112; 1337; 1540; 1958; 2126; 2760; 2787; 2875; 2985; 3566; 3630; 3731; 3734; 4014; 4069; 4167; 4305; 4452; 4592; 4835; 5080; 5201; 5220; 5347; 5375
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	11	1855; 2029; 2143; 2152; 3368; 3679; 3925; 4317; 4676; 4774; 4860
AclWI	!NNNNNGATCC	8	580; 1145; 1842; 2130; 3744; 4288; 4675; 4772
AcoI	Y!GGCCR	7	1268; 1514; 1869; 3406; 3580; 3971; 3998
AcsI	R!AATY	4	2104; 2314; 2418; 2429
AcuI	CTGAAGNNNNNNNNNNNNNNN!	4	1120; 1738; 3646; 4078
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4876
AcvI	CAC!GTG	1	2063
AcyI	GR!CGYC	8	122; 175; 258; 444; 1187; 3500; 4202; 4281
AdeI	CACNNN!GTG	2	1260; 2616
AfaI	GT!AC	14	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1393; 1618; 2074; 2122; 3806
AfeI	AGC!GCT	3	596; 1738; 1773
AfiI	CCNNNNN!NNGG	23	49; 721; 1000; 1066; 1209; 1536; 1749; 1857; 2512; 2838; 3230; 3481; 4025; 4306; 4338; 4470; 4505; 4555; 4587; 4940; 5219; 5385; 5403
AflIII	C!TTAAG	0	
AflIII	A!CRYGT	3	1369; 2386; 5418
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	8	687; 1353; 1590; 2911; 2955; 2965; 3378; 4954
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	19	88; 281; 785; 929; 944; 1073; 1433; 1511; 1529; 1988; 3034; 3089; 3106; 3885; 4464; 4567; 5257; 5270; 5391
AjuI	GAANNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNTTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	CCAANNNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNNTTGG	0	
AleI	CACNN!NNGTG	2	613; 1805
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	3074; 3146
AlfI	!NNNNNNNNNGGCANNNNNNTGC	2	3040; 3112
AloI	GAACNNNNNNNTCNNNNNNNNNNNN!	1	2582
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	2550
AluI	AG!CT	21	566; 624; 651; 797; 1104; 1692; 1704; 1785; 1889; 2088; 2279; 2446; 2703; 2998; 3286; 3606; 4064; 4861; 5118; 5164; 5254
AluBI	AG!CT	21	566; 624; 651; 797; 1104; 1692; 1704; 1785; 1889; 2088; 2279; 2446; 2703; 2998; 3286; 3606; 4064; 4861; 5118; 5164; 5254
AlwI	GGATCNNNN!	11	1855; 2029; 2143; 2152; 3368; 3679; 3925; 4317; 4676; 4774; 4860
AlwI	!NNNNNGATCC	8	580; 1145; 1842; 2130; 3744; 4288; 4675; 4772
Alw21I	GWGCW!C	7	694; 1706; 1997; 2096; 3613; 3803; 5108
Alw26I	GTCTCN!	2	434; 2086
Alw26I	!NNNNNGAGAC	10	1042; 1132; 1231; 1829; 1919; 1972; 2924; 3342; 4361; 4489
Alw44I	G!TGCAC	2	690; 5104
AlwNI	CAGNNN!CTG	4	1692; 1892; 4601; 5009
Ama87I	C!YCGRG	1	2131
Aor13HI	T!CCGGA	1	1321
Aor51HI	AGC!GCT	3	596; 1738; 1773
ApaI	GGGCC!C	1	2132
ApaBI	GCANNNNN!TGC	4	1383; 3068; 3140; 4602
ApaLI	G!TGCAC	2	690; 5104
ApeKI	G!CWGC	27	809; 953; 1251; 1415; 1574; 1577; 1608; 1689; 1788; 1811; 1889; 1892; 1961; 2066; 2276; 2795; 3460; 3561; 3603; 3644; 3737; 4124; 4577; 4803; 5009; 5012; 5077
ApoI	R!AATY	4	2104; 2314; 2418; 2429
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	4015
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3809; 4462; 5300
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3899
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	785
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	1338; 3328
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	1	1611
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	4070
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 1125; 1151; 1331; 1653; 1848; 2022; 2055; 2136; 2145; 2158; 3338; 3342; 3361; 3672; 3750; 3831; 3840; 3918; 4294; 4310; 4669; 4681; 4759; 4767; 4778; 4853
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3618
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	2120
AspA2I	C!CTAGG	2	3322; 4337
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	27	597; 1084; 1291; 1582; 1613; 1739; 1774; 2766; 2774; 2800; 2822; 2831; 2844; 2875; 3494; 3502; 3566; 3603; 3869; 4129; 4305; 4391; 4794; 4903; 5077; 5177; 5244
AspS9I	G!GNCC	18	83; 276; 760; 1003; 1095; 1116; 1200; 1467; 1752; 1779; 1878; 2129; 2607; 4016; 4461; 4507; 4565; 4598
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	4182
AsuC2I	CC!SGG	8	836; 1184; 1751; 2133; 3504; 3664; 4277; 5041
AsuHPI	GGTGANNNNNNN!	8	376; 627; 996; 1306; 1357; 1569; 4571; 4687
AsuHPI	!NNNNNNNTCACC	4	885; 1959; 2617; 3678
AsuNHI	G!CTAGC	1	591

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AvaI	C!YCGRG	1	2131
AvaII	G!GWCC	5	1200; 1779; 1878; 4016; 4461
AviII	TGC!GCA	1	3602
AvrII	C!CTAGG	2	3322; 4337
AxyI	CC!TNAGG	5	869; 1500; 1999; 2980; 4612
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	667; 694; 727; 1546; 2132; 3446; 3539; 5108
BalI	TGG!CCA	3	1270; 1516; 3582
BamHI	G!GATCC	2	1847; 2135
BanI	G!GYRCC	9	465; 664; 724; 1375; 1504; 2120; 2653; 3499; 3534
BanII	GRGCY!C	5	1706; 2132; 2691; 3865; 4575
BanIII	AT!CGAT	1	3340
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	1209
BauI	C!ACGAG	3	1255; 4218; 5245
BauI	C!TCGTG	2	1105; 4092
BbeI	GGCGC!C	1	3503
Bbr7I	GAAGACNNNNNN!	2	916; 1374
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	1	2063
BbsI	GAAGACNN!	2	911; 1369
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	3070; 3142; 3905
BbvI	GCAGCNNNNNNNN!	11	821; 1263; 1701; 1800; 1823; 2288; 3573; 3615; 4136; 4589; 5089
BbvI	!NNNNNNNNNNNGCTGC	14	940; 1402; 1561; 1595; 1772; 1876; 1948; 2053; 2782; 3447; 3631; 3724; 4790; 4996
Bbv12I	GWGCW!C	7	694; 1706; 1997; 2096; 3613; 3803; 5108
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	4	2630; 3194; 3720; 4222
BccI	!NNNNNGATGG	4	1291; 2598; 3378; 3806
BceAI	ACGGCNNNNNNNNNN!	6	822; 966; 1017; 1083; 3926; 4413
BceAI	!NNNNNNNNNNNGCCGT	4	1856; 2641; 3459; 4918
BceFI	ACGGCNNNNNNNNNN!	6	822; 966; 1017; 1083; 3926; 4413
BceFI	!NNNNNNNNNNNGCCGT	4	1857; 2642; 3460; 4919
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	4	1675; 2929; 3719; 5220
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2157
BcnI	CC!SGG	8	836; 1184; 1751; 2133; 3504; 3664; 4277; 5041
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNN!	2	2180; 5353
BdaI	!NNNNNNNNNTGANNNNNNTCA	2	2146; 5319
BfaI	C!TAG	8	592; 2148; 2349; 2767; 3323; 4338; 4672; 4925
BfiI	ACTGGGNNNN!	2	1571; 3449
BfiI	!NNNNCCCAGT	2	289; 3201
BfmI	C!TRYAG	5	1786; 2109; 2835; 4962; 5153
BfoI	RGCGC!Y	8	598; 1292; 1740; 1775; 2767; 2775; 3503; 5178
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	4	1675; 2929; 3719; 5220
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	1403; 1613; 3768; 4218
BfuAI	!NNNNNNNNGCAGGT	2	2031; 3387

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BfuCI	!GATC	27	585; 1124; 1150; 1330; 1652; 1847; 2021; 2054; 2135; 2144; 2157; 3337; 3341; 3360; 3671; 3749; 3830; 3839; 3917; 4293; 4309; 4668; 4680; 4758; 4766; 4777; 4852
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1079; 3275
BglII	A!GATCT	1	1330
BisI	GC!NGC	45	759; 810; 954; 1071; 1252; 1416; 1575; 1578; 1609; 1690; 1789; 1812; 1890; 1893; 1959; 1962; 2067; 2277; 2796; 2818; 2832; 3270; 3409; 3461; 3472; 3562; 3567; 3604; 3645; 3732; 3735; 3738; 3974; 4070; 4111; 4125; 4239; 4578; 4593; 4804; 5010; 5013; 5078; 5221; 5376
BlnI	C!CTAGG	2	3322; 4337
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	45	760; 811; 955; 1072; 1253; 1417; 1576; 1579; 1610; 1691; 1790; 1813; 1891; 1894; 1960; 1963; 2068; 2278; 2797; 2819; 2833; 3271; 3410; 3462; 3473; 3563; 3568; 3605; 3646; 3733; 3736; 3739; 3975; 4071; 4112; 4126; 4240; 4579; 4594; 4805; 5011; 5014; 5079; 5222; 5377
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	5	1200; 1779; 1878; 4016; 4461
Bme1390I	CC!NGG	27	90; 283; 787; 836; 931; 946; 1075; 1184; 1435; 1513; 1531; 1751; 1990; 2133; 3036; 3091; 3108; 3504; 3664; 3887; 4277; 4466; 4569; 5041; 5259; 5272; 5393
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	1	2131
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	18	84; 277; 761; 1004; 1096; 1117; 1201; 1468; 1753; 1780; 1879; 2130; 2608; 4017; 4462; 4508; 4566; 4599
BmiI	GGN!NCC	26	467; 666; 726; 1117; 1320; 1377; 1506; 1603; 1849; 1880; 2122; 2130; 2137; 2655; 2676; 2688; 2879; 3040; 3112; 3501; 3536; 4384; 4463; 4508; 5351; 5390
BmrI	ACTGGGNNNNN!	2	1571; 3449
BmrI	!NNNNCCCAGT	2	289; 3201
BmrFI	CC!NGG	27	90; 283; 787; 836; 931; 946; 1075; 1184; 1435; 1513; 1531; 1751; 1990; 2133; 3036; 3091; 3108; 3504; 3664; 3887; 4277; 4466; 4569; 5041; 5259; 5272; 5393
BmsI	GCATCNNNNN!	9	848; 1463; 1973; 2316; 3079; 3151; 3799; 3863; 4138
BmsI	!NNNNNNNNNGATGC	7	357; 1001; 1169; 3458; 3713; 3929; 5321
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1571; 3449
BmuI	!NNNNCCCAGT	2	289; 3201
BoxI	GACNN!NNGTC	2	1243; 1564
BpiI	GAAGACNN!	2	911; 1369
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3289; 4188
BpI	!NNNNNNNNGAGNNNNNCTC	2	3257; 4156
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	1669; 2110; 4340
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	928; 4283
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	4182
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	2	911; 1369
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	1156; 4794; 5333
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	7	1159; 1372; 1456; 1690; 2068; 3876; 5035
BpuMI	CC!SGG	8	836; 1184; 1751; 2133; 3504; 3664; 4277; 5041
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	5	1132; 1231; 1919; 1972; 4489
Bsa29I	AT!CGAT	1	3340
BsaAI	YAC!GTR	4	340; 2063; 2616; 3804
BsaBI	GATNN!NNATC	2	2162; 3359
BsaHI	GR!CGYC	8	122; 175; 258; 444; 1187; 3500; 4202; 4281
BsaJI	C!CNNGG	20	360; 611; 698; 929; 2124; 2131; 3034; 3106; 3229; 3264; 3273; 3322; 3663; 3932; 4337; 4464; 4465; 4567; 4568; 5258
BsaMI	GAATGCN!	1	2251

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsaMI	G!CATTC	1	2344
BsaWI	W!CCGGW	7	600; 1321; 2141; 3531; 4375; 5065; 5212
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	1948; 2580
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	1918; 2550
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	2501; 4408
Bsc4I	CCNNNNN!NNGG	23	49; 721; 1000; 1066; 1209; 1536; 1749; 1857; 2512; 2838; 3230; 3481; 4025; 4306; 4338; 4470; 4505; 4555; 4587; 4940; 5219; 5385; 5403
BscAI	GCATCNNNN!	9	847; 1462; 1972; 2315; 3078; 3150; 3798; 3862; 4137
BscAI	!NNNNNNGATGC	7	360; 1004; 1172; 3461; 3716; 3932; 5324
Bse1I	ACTGGN!	7	1214; 1287; 1566; 1834; 3444; 3645; 4891
Bse1I	C!CAGT	5	295; 2529; 3207; 5003; 5016
Bse8I	GATNN!NNATC	2	2162; 3359
Bse21I	CC!TNAGG	5	869; 1500; 1999; 2980; 4612
Bse118I	R!CCGGY	6	600; 1864; 2717; 3819; 4000; 4283
BseAI	T!CCGGA	1	1321
BseBI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1435; 1513; 1531; 1990; 3036; 3091; 3108; 3887; 4466; 4569; 5259; 5272; 5393
BseCI	AT!CGAT	1	3340
BseDI	C!CNNGG	20	360; 611; 698; 929; 2124; 2131; 3034; 3106; 3229; 3264; 3273; 3322; 3663; 3932; 4337; 4464; 4465; 4567; 4568; 5258
Bse3DI	GCAATGNN!	1	3733
Bse3DI	!CATTGC	1	2027
BseGI	GGATGNN!	4	3360; 3817; 3842; 4296
BseGI	!CATCC	7	694; 782; 839; 1526; 1622; 1985; 3186
BseJI	GATNN!NNATC	2	2162; 3359
BseLI	CCNNNNN!NNGG	23	49; 721; 1000; 1066; 1209; 1536; 1749; 1857; 2512; 2838; 3230; 3481; 4025; 4306; 4338; 4470; 4505; 4555; 4587; 4940; 5219; 5385; 5403
BseMI	GCAATGNN!	1	3733
BseMI	!CATTGC	1	2027
BseMII	CTCAGNNNNNNNNNN!	3	1341; 1514; 4626
BseMII	!NNNNNNNCTGAG	8	860; 1990; 2091; 2971; 3273; 4154; 4726; 5135
BseNI	ACTGGN!	7	1214; 1287; 1566; 1834; 3444; 3645; 4891
BseNI	C!CAGT	5	295; 2529; 3207; 5003; 5016
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1328; 3318
BseRI	!NNNNNNNCTCCTC	1	1621
BseSI	GKGC!C	8	667; 694; 727; 1546; 2132; 3446; 3539; 5108
BseXI	GCAGCNNNNNNNN!	11	821; 1263; 1701; 1800; 1823; 2288; 3573; 3615; 4136; 4589; 5089
BseXI	!NNNNNNNNNNNGCTGC	14	940; 1402; 1561; 1595; 1772; 1876; 1948; 2053; 2782; 3447; 3631; 3724; 4790; 4996
BseX3I	C!GGCCG	1	3406
BseYI	C!CCAGC	4	993; 3043; 3115; 5114
BseYI	G!CTGGG	2	1031; 4004
BsgI	GTGCAGNNNNNNNNNNNNNN!	1	2059
BsgI	!NNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	16	60; 2126; 2388; 2424; 2800; 2820; 2844; 2875; 3566; 3867; 4305; 4389; 4452; 4521; 4794; 5375
Bsh1285I	CGRY!CG	3	605; 3409; 5084
BshFI	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1433; 1468; 1498; 1516; 1754; 1864; 1871; 2130; 2466; 2608; 3263; 3269; 3278; 3321; 3408; 3582; 3973; 4000; 4509; 4566; 4599; 4944; 5378; 5396; 5407
BshNI	G!GYRCC	9	465; 664; 724; 1375; 1504; 2120; 2653; 3499; 3534
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	3340
BsiEI	CGRY!CG	3	605; 3409; 5084
BsiHKAI	GWGCW!C	7	694; 1706; 1997; 2096; 3613; 3803; 5108
BsiHKCI	C!YCGRG	1	2131

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsiSI	C!CGG	24	601; 835; 1184; 1322; 1750; 1865; 2132; 2142; 2718; 3405; 3482; 3504; 3532; 3663; 3753; 3820; 4001; 4276; 4284; 4376; 4850; 5040; 5066; 5213
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	23	49; 721; 1000; 1066; 1209; 1536; 1749; 1857; 2512; 2838; 3230; 3481; 4025; 4306; 4338; 4470; 4505; 4555; 4587; 4940; 5219; 5385; 5403
BsIF1	GGGACNNNNNNNNNN!	6	175; 326; 494; 3651; 4183; 4292
BsIF1	!NNNNNNNNNNNNNGTCCC	5	1864; 3016; 3088; 3152; 4447
BsmI	GAATGCN!	1	2251
BsmI	G!CATTC	1	2344
BsmAI	GTCTCN!	2	434; 2086
BsmAI	!NNNNNGAGAC	10	1042; 1132; 1231; 1829; 1919; 1972; 2924; 3342; 4361; 4489
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	1042
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3651; 4183; 4292
BsmFI	!NNNNNNNNNNNNNGTCCC	5	1864; 3016; 3088; 3152; 4447
BsnI	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1433; 1468; 1498; 1516; 1754; 1864; 1871; 2130; 2466; 2608; 3263; 3269; 3278; 3321; 3408; 3582; 3973; 4000; 4509; 4566; 4599; 4944; 5378; 5396; 5407
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	5	1132; 1231; 1919; 1972; 4489
BsoBI	C!YCGRG	1	2131
Bsp13I	T!CCGGA	1	1321
Bsp19I	C!CATGG	4	360; 611; 3229; 3932
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	4	289; 1388; 1860; 4303
Bsp24I	!NNNNNNCCANNNNNGTC	2	4724; 4902
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4756; 4934
Bsp24I	!NNNNNNNGACNNNNNTGG	4	257; 1356; 1828; 4271
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4182
Bsp120I	G!GGCCC	1	2128
Bsp143I	!GATC	27	585; 1124; 1150; 1330; 1652; 1847; 2021; 2054; 2135; 2144; 2157; 3337; 3341; 3360; 3671; 3749; 3830; 3839; 3917; 4293; 4309; 4668; 4680; 4758; 4766; 4777; 4852
Bsp1286I	GDGCH!C	16	667; 694; 727; 1546; 1706; 1997; 2096; 2132; 2691; 3446; 3539; 3613; 3803; 3865; 4575; 5108
Bsp1407I	T!GTACA	2	653; 2072
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1851; 2124; 2815; 2818; 2832; 2922; 3170; 3182; 3191; 3203; 3213; 3224; 3270; 3409; 3472; 3974; 4019; 4085; 4111; 4236; 4239; 4387; 4519; 4826; 4970; 5466
BspACI	G!CGG	30	370; 403; 528; 758; 1070; 1112; 1337; 1540; 1958; 2126; 2760; 2787; 2875; 2985; 3566; 3630; 3731; 3734; 4014; 4069; 4167; 4305; 4452; 4592; 4835; 5080; 5201; 5220; 5347; 5375
BspCNI	CTCAGNNNNNNNN!	3	1340; 1513; 4625
BspCNI	!NNNNNNCTGAG	8	861; 1991; 2092; 2972; 3274; 4155; 4727; 5136
BspDI	AT!CGAT	1	3340
BspD6I	GACTCNNNN!	5	418; 1333; 2573; 4179; 5056
BspD6I	!NNNNNGAGTC	4	883; 2072; 2536; 2968
BspEI	T!CCGGA	1	1321
BspFNI	CG!CG	16	60; 2126; 2388; 2424; 2800; 2820; 2844; 2875; 3566; 3867; 4305; 4389; 4452; 4521; 4794; 5375
BspHI	T!CATGA	2	2926; 4698
BspLI	GGN!NCC	26	467; 666; 726; 1117; 1320; 1377; 1506; 1603; 1849; 1880; 2122; 2130; 2137; 2655; 2676; 2688; 2879; 3040; 3112; 3501; 3536; 4384; 4463; 4508; 5351; 5390
BspMI	ACCTGCNNNN!	4	1403; 1613; 3768; 4218
BspMI	!NNNNNNNGCAGGT	2	2031; 3387
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	11	1855; 2029; 2143; 2152; 3368; 3679; 3925; 4317; 4676; 4774; 4860
BspPI	!NNNNNGATCC	8	580; 1145; 1842; 2130; 3744; 4288; 4675; 4772
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3844; 4054

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4182
BspT107I	G!GYRCC	9	465; 664; 724; 1375; 1504; 2120; 2653; 3499; 3534
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	5	1132; 1231; 1919; 1972; 4489
BsrI	ACTGGN!	7	1214; 1287; 1566; 1834; 3444; 3645; 4891
BsrI	C!CAGT	5	295; 2529; 3207; 5003; 5016
BsrBI	CCG!CTC	3	1853; 2924; 4113
BsrBI	GAG!CGG	2	2760; 4167
BsrDI	GCAATGNN!	1	3733
BsrDI	!CATTGC	1	2027
BsrFI	R!CCGGY	6	600; 1864; 2717; 3819; 4000; 4283
BsrGI	T!GTACA	2	653; 2072
BsrSI	ACTGGN!	7	1214; 1287; 1566; 1834; 3444; 3645; 4891
BsrSI	C!CAGT	5	295; 2529; 3207; 5003; 5016
BssAI	R!CCGGY	6	600; 1864; 2717; 3819; 4000; 4283
BssECI	C!CNNGG	20	360; 611; 698; 929; 2124; 2131; 3034; 3106; 3229; 3264; 3273; 3322; 3663; 3932; 4337; 4464; 4465; 4567; 4568; 5258
BssHII	G!CGCGC	0	
BssKI	!CCNGG	27	88; 281; 785; 834; 929; 944; 1073; 1182; 1433; 1511; 1529; 1749; 1988; 2131; 3034; 3089; 3106; 3502; 3662; 3885; 4275; 4464; 4567; 5039; 5257; 5270; 5391
BssMI	!GATC	27	585; 1124; 1150; 1330; 1652; 1847; 2021; 2054; 2135; 2144; 2157; 3337; 3341; 3360; 3671; 3749; 3830; 3839; 3917; 4293; 4309; 4668; 4680; 4758; 4766; 4777; 4852
BssNI	GR!CGYC	8	122; 175; 258; 444; 1187; 3500; 4202; 4281
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1255; 4218; 5245
BssSI	C!TCGTG	2	1105; 4092
BssTII	C!CWWGG	6	360; 611; 3229; 3322; 3932; 4337
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2967; 3844; 4054
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 1187; 3500; 4202; 4281
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	4	1382; 3067; 3139; 4601
BstAUI	T!GTACA	2	653; 2072
BstBI	TT!CGAA	1	4182
Bst2BI	C!ACGAG	3	1255; 4218; 5245
Bst2BI	C!TCGTG	2	1105; 4092
BstBAI	YAC!GTR	4	340; 2063; 2616; 3804
Bst4CI	ACN!GT	19	76; 198; 269; 543; 581; 669; 1380; 1548; 1840; 1902; 2120; 2591; 3880; 3996; 4104; 4427; 4918; 5388; 5459
BstC8I	GCN!NGC	37	86; 279; 593; 622; 712; 916; 1427; 1431; 1466; 1496; 1542; 2128; 2719; 2762; 2776; 3049; 3068; 3121; 3140; 3394; 3580; 3799; 3865; 3871; 3899; 3903; 3944; 3948; 4002; 4285; 4472; 4519; 4575; 4597; 4808; 5368; 5405
BstDEI	C!TNAG	11	869; 1327; 1500; 1999; 2100; 2980; 3282; 4163; 4612; 4735; 5144
BstDSI	C!CRYGG	5	360; 611; 2124; 3229; 3932
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	3360; 3817; 3842; 4296
BstF5I	!CATCC	7	694; 782; 839; 1526; 1622; 1985; 3186
BstFNI	CG!CG	16	60; 2126; 2388; 2424; 2800; 2820; 2844; 2875; 3566; 3867; 4305; 4389; 4452; 4521; 4794; 5375
BstH2I	RGCGC!Y	8	598; 1292; 1740; 1775; 2767; 2775; 3503; 5178
BstHHI	GCG!C	27	597; 1084; 1291; 1582; 1613; 1739; 1774; 2766; 2774; 2800; 2822; 2831; 2844; 2875; 3494; 3502; 3566; 3603; 3869; 4129; 4305; 4391; 4794; 4903; 5077; 5177; 5244
BstKTI	GAT!C	27	588; 1127; 1153; 1333; 1655; 1850; 2024; 2057; 2138; 2147; 2160; 3340; 3344; 3363; 3674; 3752; 3833; 3842; 3920; 4296; 4312; 4671; 4683; 4761; 4769; 4780; 4855
BstMAI	GTCTCN!	2	434; 2086
BstMAI	!NNNNNGAGAC	10	1042; 1132; 1231; 1829; 1919; 1972; 2924; 3342; 4361; 4489

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstMBI	!GATC	27	585; 1124; 1150; 1330; 1652; 1847; 2021; 2054; 2135; 2144; 2157; 3337; 3341; 3360; 3671; 3749; 3830; 3839; 3917; 4293; 4309; 4668; 4680; 4758; 4766; 4777; 4852
BstMCI	CGRY!CG	3	605; 3409; 5084
BstMWI	GCNNNNN!NNGC	30	90; 212; 244; 283; 376; 400; 648; 1079; 1382; 1435; 1811; 2727; 2757; 2784; 2826; 3067; 3139; 3190; 3269; 3491; 3575; 3598; 3737; 3860; 3943; 4210; 4397; 4601; 4800; 5372
BstNI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1435; 1513; 1531; 1990; 3036; 3091; 3108; 3887; 4466; 4569; 5259; 5272; 5393
BstNSI	RCATG!Y	7	642; 1088; 1373; 3070; 3142; 3905; 5422
BstOI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1435; 1513; 1531; 1990; 3036; 3091; 3108; 3887; 4466; 4569; 5259; 5272; 5393
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	2	1243; 1564
BstSCI	!CCNGG	27	88; 281; 785; 834; 929; 944; 1073; 1182; 1433; 1511; 1529; 1749; 1988; 2131; 3034; 3089; 3106; 3502; 3662; 3885; 4275; 4464; 4567; 5039; 5257; 5270; 5391
BstSFI	C!TRYAG	5	1786; 2109; 2835; 4962; 5153
BstSLI	GKGCMI!C	8	667; 694; 727; 1546; 2132; 3446; 3539; 5108
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	16	60; 2126; 2388; 2424; 2800; 2820; 2844; 2875; 3566; 3867; 4305; 4389; 4452; 4521; 4794; 5375
Bst2UI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1435; 1513; 1531; 1990; 3036; 3091; 3108; 3887; 4466; 4569; 5259; 5272; 5393
BstVII	GCAGCNNNNNNNN!	11	821; 1263; 1701; 1800; 1823; 2288; 3573; 3615; 4136; 4589; 5089
BstVII	!NNNNNNNNNNNGCTGC	14	940; 1402; 1561; 1595; 1772; 1876; 1948; 2053; 2782; 3447; 3631; 3724; 4790; 4996
BstV2I	GAAGACNN!	2	911; 1369
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	2	1776; 1807
BstX2I	R!GATCY	13	585; 1150; 1330; 1847; 2135; 2144; 3671; 3917; 4309; 4668; 4680; 4766; 4777
BstYI	R!GATCY	13	585; 1150; 1330; 1847; 2135; 2144; 3671; 3917; 4309; 4668; 4680; 4766; 4777
BstZI	C!GGCCG	1	3406
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	4	1675; 2929; 3719; 5220
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3340
Bsu36I	CC!TNAGG	5	869; 1500; 1999; 2980; 4612
BsuRI	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1433; 1468; 1498; 1516; 1754; 1864; 1871; 2130; 2466; 2608; 3263; 3269; 3278; 3321; 3408; 3582; 3973; 4000; 4509; 4566; 4599; 4944; 5378; 5396; 5407
BsuTUI	AT!CGAT	1	3340
BtgI	C!CRYGG	5	360; 611; 2124; 3229; 3932
BtgZI	GCGATGNNNNNNNNNN!	2	2617; 3952
BtgZI	!NNNNNNNNNNNNNNCATCGC	4	334; 1641; 3771; 4115
BthCI	GCNG!C	45	761; 812; 956; 1073; 1254; 1418; 1577; 1580; 1611; 1692; 1791; 1814; 1892; 1895; 1961; 1964; 2069; 2279; 2798; 2820; 2834; 3272; 3411; 3463; 3474; 3564; 3569; 3606; 3647; 3734; 3737; 3740; 3976; 4072; 4113; 4127; 4241; 4580; 4595; 4806; 5012; 5015; 5080; 5223; 5378
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	1	1454
BtsI	!CACTGC	2	1800; 2339
BtsCI	GGATGNN!	4	3360; 3817; 3842; 4296
BtsCI	!CATCC	7	694; 782; 839; 1526; 1622; 1985; 3186
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	1403; 1613; 3768; 4218
BveI	!NNNNNNNNGCAGGT	2	2031; 3387
Cac8I	GCN!NGC	37	86; 279; 593; 622; 712; 916; 1427; 1431; 1466; 1496; 1542; 2128; 2719; 2762; 2776; 3049; 3068; 3121; 3140; 3394; 3580; 3799; 3865; 3871; 3899; 3903; 3944; 3948; 4002; 4285; 4472; 4519; 4575; 4597; 4808; 5368; 5405
CaiI	CAGNNN!CTG	4	1692; 1892; 4601; 5009

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CciI	T!CATGA	2	2926; 4698
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	6	352; 1659; 3789; 3794; 3992; 4133
CdiI	C!GATG	4	1052; 1233; 2603; 3938
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5372
CdpI	!NNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3161; 3203
CelII	GC!TNAGC	0	
CfoI	GCG!C	27	597; 1084; 1291; 1582; 1613; 1739; 1774; 2766; 2774; 2800; 2822; 2831; 2844; 2875; 3494; 3502; 3566; 3603; 3869; 4129; 4305; 4391; 4794; 4903; 5077; 5177; 5244
CfrI	Y!GGCCR	7	1268; 1514; 1869; 3406; 3580; 3971; 3998
Cfr9I	C!CCGGG	1	2131
Cfr10I	R!CCGGY	6	600; 1864; 2717; 3819; 4000; 4283
Cfr13I	G!GNCC	18	83; 276; 760; 1003; 1095; 1116; 1200; 1467; 1752; 1779; 1878; 2129; 2607; 4016; 4461; 4507; 4565; 4598
Cfr42I	CCG!GG	1	2127
ChaI	GATC!	27	589; 1128; 1154; 1334; 1656; 1851; 2025; 2058; 2139; 2148; 2161; 3341; 3345; 3364; 3675; 3753; 3834; 3843; 3921; 4297; 4313; 4672; 4684; 4762; 4770; 4781; 4856
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	706; 3317; 4757; 4857; 4935
CjeI	!NNNNNNNNNACNNNNNNNTGG	9	64; 257; 1356; 1828; 2984; 3079; 4271; 4821; 5376
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	9	98; 291; 1390; 1862; 3018; 3113; 4305; 4855; 5410
CjeI	!NNNNNNNNCCANNNNNNGT	5	672; 3283; 4723; 4823; 4901
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	2	4757; 4935
CjePI	!NNNNNNNNNGANNNNNNNNTGG	7	257; 1356; 1644; 1828; 1992; 4271; 4870
CjePI	GANNNNNNNNTGGNNNNNNNNNNNNNN!	7	290; 1389; 1677; 1861; 2025; 4304; 4903
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	4724; 4902
Clal	AT!CGAT	1	3340
CpoI	CG!GWCCG	1	4016
CseI	GACGCNNNNN!	4	526; 1470; 4210; 4289
CseI	!NNNNNNNNNNNGCGTC	5	1176; 1585; 2833; 4728; 5306
CsiI	A!CCWGGT	1	3089
CspI	CG!GWCCG	1	4016
Csp6I	G!TAC	14	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1392; 1617; 2073; 2121; 3805
Csp45I	TT!CGAA	1	4182
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	6	656; 1247; 1616; 1733; 2780; 4389
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	31	301; 361; 612; 639; 645; 657; 735; 801; 881; 1085; 1092; 1370; 1443; 1554; 1728; 1756; 1930; 2052; 2927; 3067; 3139; 3230; 3371; 3716; 3902; 3933; 3959; 4315; 4699; 5419; 5470
CviJI	RG!CY	115	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; 1425; 1429; 1433; 1438; 1468; 1490; 1498; 1516; 1522; 1574; 1692; 1704; 1749; 1754; 1762; 1785; 1864; 1871; 1889; 1909; 1961; 2014; 2088; 2130; 2169; 2279; 2446; 2466; 2608; 2689; 2703; 2717; 2998; 3039; 3111; 3234; 3263; 3269; 3278; 3286; 3309; 3321; 3327; 3408; 3425; 3433; 3460; 3485; 3569; 3578; 3582; 3606; 3644; 3720; 3737; 3756; 3819; 3863; 3873; 3890; 3973; 4000; 4004; 4041; 4064; 4080; 4260; 4287; 4348; 4470; 4509; 4566; 4573; 4580; 4599; 4610; 4861; 4890; 4933; 4944; 5009; 5088; 5113; 5118; 5164; 5254; 5352; 5378; 5396; 5407

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	115	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; 1425; 1429; 1433; 1438; 1468; 1490; 1498; 1516; 1522; 1574; 1692; 1704; 1749; 1754; 1762; 1785; 1864; 1871; 1889; 1909; 1961; 2014; 2088; 2130; 2169; 2279; 2446; 2466; 2608; 2689; 2703; 2717; 2998; 3039; 3111; 3234; 3263; 3269; 3278; 3286; 3309; 3321; 3327; 3408; 3425; 3433; 3460; 3485; 3569; 3578; 3582; 3606; 3644; 3720; 3737; 3756; 3819; 3863; 3873; 3890; 3973; 4000; 4004; 4041; 4064; 4080; 4260; 4287; 4348; 4470; 4509; 4566; 4573; 4580; 4599; 4610; 4861; 4890; 4933; 4944; 5009; 5088; 5113; 5118; 5164; 5254; 5352; 5378; 5396; 5407
CviQI	G!TAC	14	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1392; 1617; 2073; 2121; 3805
DdeI	C!TNAG	11	869; 1327; 1500; 1999; 2100; 2980; 3282; 4163; 4612; 4735; 5144
DinI	GGC!GCC	1	3501
DpnI	GA!TC	27	587; 1126; 1152; 1332; 1654; 1849; 2023; 2056; 2137; 2146; 2159; 3339; 3343; 3362; 3673; 3751; 3832; 3841; 3919; 4295; 4311; 4670; 4682; 4760; 4768; 4779; 4854
DpnII	!GATC	27	585; 1124; 1150; 1330; 1652; 1847; 2021; 2054; 2135; 2144; 2157; 3337; 3341; 3360; 3671; 3749; 3830; 3839; 3917; 4293; 4309; 4668; 4680; 4758; 4766; 4777; 4852
DraI	TTT!AAA	3	2202; 4644; 4663
DraII	RG!GNCCY	1	4598
DraIII	CACNNN!GTG	2	1260; 2616
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	4	266; 851; 1415; 4980
DraRI	!NNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	3	2571; 3527; 5316
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2571; 3527; 5316
EaeI	Y!GGCCR	7	1268; 1514; 1869; 3406; 3580; 3971; 3998
EagI	C!GGCCG	1	3406
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2967; 3844; 4054
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	2967; 3844; 4054
EciI	GGCGANNNNNNNNNNNN!	4	3000; 4029; 5216; 5362
EciI	!NNNNNNNNNTCCGCC	4	496; 3171; 3192; 3213
Ecl136II	GAG!CTC	1	1704
EclXI	C!GGCCG	1	3406
Eco24I	GRGCY!C	5	1706; 2132; 2691; 3865; 4575
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	5	1132; 1231; 1919; 1972; 4489
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	5	1200; 1779; 1878; 4016; 4461
Eco47III	AGC!GCT	3	596; 1738; 1773
Eco52I	C!GGCCG	1	3406
Eco57I	CTGAAGNNNNNNNNNNNNNN!	4	1120; 1738; 3646; 4078
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4876
Eco72I	CAC!GTG	1	2063
Eco81I	CC!TNAGG	5	869; 1500; 1999; 2980; 4612
Eco88I	C!YCGRG	1	2131
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 611; 3229; 3322; 3932; 4337
Eco147I	AGG!CCT	2	1039; 3321
EcoHI	!CCSGG	8	834; 1182; 1749; 2131; 3502; 3662; 4275; 5039
EcoICRI	GAG!CTC	1	1704
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	7	1120; 1669; 1738; 2110; 3646; 4078; 4340
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	928; 4283; 4876
EcoNI	CCTNN!NNNAGG	0	
EcoO65I	G!GTNACC	0	
EcoO109I	RG!GNCCY	1	4598

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EcoRI	G!AATTC	1	2104
EcoRII	!CCWGG	19	88; 281; 785; 929; 944; 1073; 1433; 1511; 1529; 1988; 3034; 3089; 3106; 3885; 4464; 4567; 5257; 5270; 5391
EcoRV	GAT!ATC	0	
EcoT14I	C!CWGGG	6	360; 611; 3229; 3322; 3932; 4337
EcoT22I	ATGCA!T	3	3072; 3144; 5475
EcoT38I	GRGCY!C	5	1706; 2132; 2691; 3865; 4575
Eco53kI	GAG!CTC	1	1704
EgeI	GGC!GCC	1	3501
EheI	GGC!GCC	1	3501
ErhI	C!CWGGG	6	360; 611; 3229; 3322; 3932; 4337
EsaBC3I	TC!GA	15	753; 780; 1248; 2116; 2650; 3341; 3614; 3770; 3794; 3830; 3992; 4183; 4228; 4483; 5321
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	1	1042
FaeI	CATG!	31	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1373; 1446; 1557; 1731; 1759; 1933; 2055; 2930; 3070; 3142; 3233; 3374; 3719; 3905; 3936; 3962; 4318; 4702; 5422; 5473
Fail	YA!TR	70	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; 1342; 1371; 1444; 1555; 1729; 1757; 1931; 2053; 2162; 2172; 2238; 2283; 2488; 2916; 2928; 3059; 3068; 3131; 3140; 3164; 3231; 3255; 3372; 3436; 3717; 3742; 3903; 3934; 3960; 4032; 4248; 4316; 4394; 4446; 4607; 4624; 4626; 4628; 4700; 4978; 5167; 5283; 5356; 5420; 5471
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	879; 3840
FalI	!NNNNNNNNNAAGNNNNNCTT	2	847; 3808
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3651; 4183; 4292
FaqI	!NNNNNNNNNNNNNGTCCC	5	1864; 3016; 3088; 3152; 4447
FatI	!CATG	31	300; 360; 611; 638; 644; 656; 734; 800; 880; 1084; 1091; 1369; 1442; 1553; 1727; 1755; 1929; 2051; 2926; 3066; 3138; 3229; 3370; 3715; 3901; 3932; 3958; 4314; 4698; 5418; 5469
FauI	CCCGCNNNN!	10	93; 119; 286; 1068; 1170; 2822; 3177; 3198; 4394; 4526
FauI	!NNNNNNNGCGGG	8	1105; 1533; 2119; 2753; 3623; 4160; 4298; 4445
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2157
FblI	GT!MKAC	2	1190; 2115
FmuI	GGNC!C	18	86; 279; 763; 1006; 1098; 1119; 1203; 1470; 1755; 1782; 1881; 2132; 2610; 4019; 4464; 4510; 4568; 4601
Fnu4HI	GC!NGC	45	759; 810; 954; 1071; 1252; 1416; 1575; 1578; 1609; 1690; 1789; 1812; 1890; 1893; 1959; 1962; 2067; 2277; 2796; 2818; 2832; 3270; 3409; 3461; 3472; 3562; 3567; 3604; 3645; 3732; 3735; 3738; 3974; 4070; 4111; 4125; 4239; 4578; 4593; 4804; 5010; 5013; 5078; 5221; 5376
FokI	GGATGNNNNNNNNN!	4	3367; 3824; 3849; 4303
FokI	!NNNNNNNNNNNNNCATCC	7	681; 769; 826; 1513; 1609; 1972; 3173
FriOI	GRGCY!C	5	1706; 2132; 2691; 3865; 4575
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3602
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 2148; 2349; 2767; 3323; 4338; 4672; 4925
FspEI	CCNNNNNNNNNNNN!	182	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; 1392; 1408; 1447; 1482; 1504; 1521; 1536; 1596; 1618; 1639; 1681; 1699; 1729; 1746; 1763; 1782; 1813; 1864; 1878; 1894; 1942; 1983; 2002; 2046; 2083; 2137; 2152; 2183; 2222; 2236; 2377; 2472; 2496; 2519; 2542; 2560; 2582; 2603; 2622; 2641; 2670; 2691; 2705; 2731; 2819; 2845; 2894; 2935; 2953; 2992; 3008; 3046; 3103; 3118; 3175; 3195; 3209; 3226; 3240; 3277; 3292; 3335; 3418; 3485; 3516; 3536; 3551; 3596; 3610; 3676; 3690; 3709; 3725; 3766; 3786; 3833; 3883; 3899; 3919; 3944; 3964; 3987; 4014; 4032; 4058; 4098; 4124; 4148; 4204; 4218; 4246; 4289; 4310; 4345; 4389; 4477; 4501; 4523; 4543; 4559; 4580; 4594; 4613; 4697; 4717; 4745; 4760; 4794; 4836; 4863; 4878; 4923; 4947; 4961; 4983; 5009; 5029; 5053; 5079; 5127; 5146; 5165; 5191; 5226; 5271; 5301; 5315; 5366; 5380; 5405; 5421; 5442; 5471

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	!NNNNNNNNNNNNNNNNNGG	155	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; 1327; 1358; 1407; 1429; 1450; 1480; 1498; 1516; 1540; 1576; 1633; 1684; 1705; 1735; 1762; 1793; 1815; 1843; 1861; 1885; 1933; 1960; 1986; 2004; 2026; 2061; 2103; 2127; 2171; 2271; 2340; 2448; 2497; 2519; 2547; 2583; 2628; 2657; 2693; 2712; 2740; 2760; 2823; 2846; 2954; 2986; 3004; 3033; 3076; 3105; 3216; 3245; 3288; 3309; 3337; 3370; 3390; 3415; 3442; 3467; 3489; 3517; 3543; 3564; 3615; 3636; 3654; 3702; 3738; 3794; 3819; 3843; 3872; 3895; 3919; 3945; 3967; 3986; 4011; 4051; 4087; 4152; 4237; 4261; 4290; 4324; 4345; 4365; 4410; 4437; 4456; 4489; 4541; 4572; 4599; 4651; 4749; 4820; 4865; 4926; 4991; 5025; 5051; 5069; 5105; 5175; 5198; 5220; 5244; 5277; 5325; 5360; 5378; 5435
Fsp4HI	GC!NGC	45	759; 810; 954; 1071; 1252; 1416; 1575; 1578; 1609; 1690; 1789; 1812; 1890; 1893; 1959; 1962; 2067; 2277; 2796; 2818; 2832; 3270; 3409; 3461; 3472; 3562; 3567; 3604; 3645; 3732; 3735; 3738; 3974; 4070; 4111; 4125; 4239; 4578; 4593; 4804; 5010; 5013; 5078; 5221; 5376
GdiII	C!GGCCR	1	3406
GdiII	Y!GGCCG	4	1869; 3406; 3971; 3998
GlaI	GC!GC	27	596; 1083; 1290; 1581; 1612; 1738; 1773; 2765; 2773; 2799; 2821; 2830; 2843; 2874; 3493; 3501; 3565; 3602; 3868; 4128; 4304; 4390; 4793; 4902; 5076; 5176; 5243
Glul	GC!NGC	45	759; 810; 954; 1071; 1252; 1416; 1575; 1578; 1609; 1690; 1789; 1812; 1890; 1893; 1959; 1962; 2067; 2277; 2796; 2818; 2832; 3270; 3409; 3461; 3472; 3562; 3567; 3604; 3645; 3732; 3735; 3738; 3974; 4070; 4111; 4125; 4239; 4578; 4593; 4804; 5010; 5013; 5078; 5221; 5376
GsaI	CCCAG!C	4	997; 3047; 3119; 5118
GsaI	GCTGG!G	2	1035; 4008
GsuI	CTGGAGNNNNNNNNNNNNNN!	3	1669; 2110; 4340
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	928; 4283
HaeI	WGG!CCW	10	1039; 1270; 1433; 1498; 1516; 3321; 3582; 4944; 5396; 5407
HaeII	RGCG!Y	8	598; 1292; 1740; 1775; 2767; 2775; 3503; 5178
HaeIII	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1433; 1468; 1498; 1516; 1754; 1864; 1871; 2130; 2466; 2608; 3263; 3269; 3278; 3321; 3408; 3582; 3973; 4000; 4509; 4566; 4599; 4944; 5378; 5396; 5407
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2175; 3696
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2141; 3662
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2174; 3695
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2143; 3664
HapII	C!CGG	24	601; 835; 1184; 1322; 1750; 1865; 2132; 2142; 2718; 3405; 3482; 3504; 3532; 3663; 3753; 3820; 4001; 4276; 4284; 4376; 4850; 5040; 5066; 5213
HgaI	GACGCNNNNN!	4	526; 1470; 4210; 4289
HgaI	!NNNNNNNNNNNGCGTC	5	1176; 1585; 2833; 4728; 5306
HhaI	GCG!C	27	597; 1084; 1291; 1582; 1613; 1739; 1774; 2766; 2774; 2800; 2822; 2831; 2844; 2875; 3494; 3502; 3566; 3603; 3869; 4129; 4305; 4391; 4794; 4903; 5077; 5177; 5244
HinI	GR!CGYC	8	122; 175; 258; 444; 1187; 3500; 4202; 4281
HinIII	CATG!	31	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1373; 1446; 1557; 1731; 1759; 1933; 2055; 2930; 3070; 3142; 3233; 3374; 3719; 3905; 3936; 3962; 4318; 4702; 5422; 5473
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1950; 2174; 3695
Hin4I	!NNNNNNNNGABNNNNNRTC	3	2142; 3663; 3693
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	2174; 3695; 3725
Hin4I	!NNNNNNNNGAYNNNNNVTC	3	1918; 2142; 3663
Hin6I	G!CGC	27	595; 1082; 1289; 1580; 1611; 1737; 1772; 2764; 2772; 2798; 2820; 2829; 2842; 2873; 3492; 3500; 3564; 3601; 3867; 4127; 4303; 4389; 4792; 4901; 5075; 5175; 5242
HinP1I	G!CGC	27	595; 1082; 1289; 1580; 1611; 1737; 1772; 2764; 2772; 2798; 2820; 2829; 2842; 2873; 3492; 3500; 3564; 3601; 3867; 4127; 4303; 4389; 4792; 4901; 5075; 5175; 5242
HincII	GTY!RAC	2	2116; 2263
HindII	GTY!RAC	2	2116; 2263
HindIII	A!AGCTT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HinfI	G!ANTC	16	410; 740; 890; 1217; 1325; 2079; 2543; 2565; 2975; 3985; 4119; 4171; 4229; 4266; 5048; 5444
HpaI	GTT!AAC	1	2263
HpaII	C!CGG	24	601; 835; 1184; 1322; 1750; 1865; 2132; 2142; 2718; 3405; 3482; 3504; 3532; 3663; 3753; 3820; 4001; 4276; 4284; 4376; 4850; 5040; 5066; 5213
HphI	GGTGANNNNNNN!	8	376; 627; 996; 1306; 1357; 1569; 4571; 4687
HphI	!NNNNNNNTCACC	4	885; 1959; 2617; 3678
Hpy8I	GTN!NAC	17	201; 539; 577; 672; 692; 987; 1191; 1200; 1403; 1779; 1918; 2116; 2263; 2547; 2564; 2619; 5106
Hpy99I	CGWCG!	12	754; 1234; 1249; 1601; 2120; 3590; 3618; 3912; 3927; 4204; 4589; 5322
Hpy166II	GTN!NAC	17	201; 539; 577; 672; 692; 987; 1191; 1200; 1403; 1779; 1918; 2116; 2263; 2547; 2564; 2619; 5106
Hpy188I	TCN!GA	14	585; 699; 1330; 1601; 2674; 3283; 3467; 3811; 4164; 4265; 4744; 4878; 5231; 5309
Hpy188III	TC!NNGA	24	1176; 1322; 1458; 1473; 2148; 2927; 2979; 3292; 3345; 3518; 3834; 3843; 3926; 3982; 4026; 4116; 4149; 4218; 4699; 4773; 4856; 4954; 5052; 5186
HpyAV	CCTTCNNNNNN!	8	780; 828; 873; 1596; 1992; 4145; 4252; 4931
HpyAV	!NNNNNGAAGG	10	700; 1072; 1713; 2733; 3628; 4357; 4373; 4556; 4873; 5183
HpyCH4III	ACN!GT	19	76; 198; 269; 543; 581; 669; 1380; 1548; 1840; 1902; 2120; 2591; 3880; 3996; 4104; 4427; 4918; 5388; 5459
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 2062; 2560; 2572; 2615; 2725; 3616; 3803; 4584; 4717
HpyCH4V	TG!CA	24	692; 1014; 1130; 1788; 1895; 1964; 2040; 2111; 2249; 2276; 2344; 3061; 3070; 3133; 3142; 3257; 3333; 3392; 3551; 3726; 3740; 4810; 5106; 5473
HpyF3I	C!TNAG	11	869; 1327; 1500; 1999; 2100; 2980; 3282; 4163; 4612; 4735; 5144
HpyF10VI	GCNNNNN!NNGC	30	90; 212; 244; 283; 376; 400; 648; 1079; 1382; 1435; 1811; 2727; 2757; 2784; 2826; 3067; 3139; 3190; 3269; 3491; 3575; 3598; 3737; 3860; 3943; 4210; 4397; 4601; 4800; 5372
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 1187; 3500; 4202; 4281
Hsp92II	CATG!	31	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1373; 1446; 1557; 1731; 1759; 1933; 2055; 2930; 3070; 3142; 3233; 3374; 3719; 3905; 3936; 3962; 4318; 4702; 5422; 5473
HspAI	G!CGC	27	595; 1082; 1289; 1580; 1611; 1737; 1772; 2764; 2772; 2798; 2820; 2829; 2842; 2873; 3492; 3500; 3564; 3601; 3867; 4127; 4303; 4389; 4792; 4901; 5075; 5175; 5242
KasI	G!GCGCC	1	3499
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	2124
Kpn2I	T!CCGGA	1	1321
KspI	CCGC!GG	1	2127
Ksp22I	T!GATCA	1	2157
KspAI	GTT!AAC	1	2263
Kzo9I	!GATC	27	585; 1124; 1150; 1330; 1652; 1847; 2021; 2054; 2135; 2144; 2157; 3337; 3341; 3360; 3671; 3749; 3830; 3839; 3917; 4293; 4309; 4668; 4680; 4758; 4766; 4777; 4852
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3844; 4054
LpnI	RG!GCGY	8	596; 1290; 1738; 1773; 2765; 2773; 3501; 5176
LpnPI	CCDGNNNNNNNNN!	77	102; 295; 614; 742; 799; 848; 881; 943; 958; 1007; 1087; 1111; 1135; 1197; 1284; 1335; 1408; 1447; 1504; 1525; 1543; 1618; 1639; 1699; 1729; 1759; 1782; 1878; 1895; 2002; 2046; 2083; 2145; 2237; 2542; 2731; 2954; 2992; 3008; 3048; 3103; 3120; 3220; 3305; 3418; 3495; 3517; 3540; 3676; 3690; 3709; 3766; 3833; 3883; 3899; 3956; 4014; 4223; 4289; 4313; 4389; 4478; 4581; 4614; 4845; 4863; 5009; 5029; 5053; 5079; 5128; 5226; 5271; 5301; 5380; 5405; 5442
LpnPI	!NNNNNNNNNNNNNCHGG	69	75; 268; 552; 586; 772; 820; 916; 1017; 1060; 1169; 1195; 1268; 1307; 1407; 1443; 1480; 1498; 1516; 1547; 1633; 1735; 1777; 1810; 1843; 1975; 2026; 2061; 2117; 2583; 2703; 2760; 2823; 3021; 3033; 3093; 3105; 3337; 3382; 3425; 3467; 3489; 3517; 3564; 3626; 3648; 3738; 3805; 3828; 3872; 3967; 3986; 4011; 4160; 4261; 4304; 4361; 4451; 4554; 4581; 4599; 4835; 4872; 5025; 5051; 5191; 5209; 5244; 5325; 5378

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Lsp1109I	GCAGCNNNNNNNN!	11	821; 1263; 1701; 1800; 1823; 2288; 3573; 3615; 4136; 4589; 5089
Lsp1109I	!NNNNNNNNNNNGCTGC	14	940; 1402; 1561; 1595; 1772; 1876; 1948; 2053; 2782; 3447; 3631; 3724; 4790; 4996
LweI	GCATCNNNNN!	9	848; 1463; 1973; 2316; 3079; 3151; 3799; 3863; 4138
LweI	!NNNNNNNNNGATGC	7	357; 1001; 1169; 3458; 3713; 3929; 5321
MabI	A!CCWGGT	1	3089
MaeI	C!TAG	8	592; 2148; 2349; 2767; 3323; 4338; 4672; 4925
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 2062; 2560; 2572; 2615; 2725; 3616; 3803; 4584; 4717
MaeIII	!GTNAC	17	61; 148; 497; 891; 1087; 1477; 1557; 1764; 2288; 2789; 2801; 3620; 3926; 4616; 4882; 4998; 5061
MalI	GA!TC	27	587; 1126; 1152; 1332; 1654; 1849; 2023; 2056; 2137; 2146; 2159; 3339; 3343; 3362; 3673; 3751; 3832; 3841; 3919; 4295; 4311; 4670; 4682; 4760; 4768; 4779; 4854
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	3	1853; 2924; 4113
MbiI	GAG!CGG	2	2760; 4167
MboI	!GATC	27	585; 1124; 1150; 1330; 1652; 1847; 2021; 2054; 2135; 2144; 2157; 3337; 3341; 3360; 3671; 3749; 3830; 3839; 3917; 4293; 4309; 4668; 4680; 4758; 4766; 4777; 4852
MboII	GAAGANNNNNNNN!	8	916; 1029; 1371; 2756; 2984; 3861; 4071; 4690
MboII	!NNNNNNNTCTTC	5	2049; 4151; 4318; 4518; 4761
McaTI	GCGC!GC	0	
MfeI	C!AATTG	2	1410; 2250
MflI	R!GATCY	13	585; 1150; 1330; 1847; 2135; 2144; 3671; 3917; 4309; 4668; 4680; 4766; 4777
MhII	GDGCH!C	16	667; 694; 727; 1546; 1706; 1997; 2096; 2132; 2691; 3446; 3539; 3613; 3803; 3865; 4575; 5108
MIsI	TGG!CCA	3	1270; 1516; 3582
MluI	A!CGCGT	1	2386
MluNI	TGG!CCA	3	1270; 1516; 3582
MlyI	GAGTCNNNNN!	4	899; 2088; 2552; 2984
MlyI	!NNNNNGACTC	5	404; 1319; 2559; 4165; 5042
Mly113I	GG!CGCC	1	3500
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	2	1961; 2593
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	4	1579; 1955; 5025; 5209
MnII	CCTCNNNNNNN!	19	773; 842; 952; 967; 1050; 1183; 1396; 1480; 1509; 1642; 1678; 1944; 2219; 3283; 4101; 4307; 4621; 4991; 5315
MnII	!NNNNNGAGG	28	541; 654; 693; 714; 747; 864; 973; 1029; 1218; 1251; 1294; 1306; 1752; 1854; 1947; 1994; 2179; 2644; 2975; 3253; 3296; 3311; 3351; 3415; 3551; 3908; 4338; 5241
Mph1103I	ATGCA!T	3	3072; 3144; 5475
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1321
MroNI	G!CCGGC	3	2717; 4000; 4283
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	3	1270; 1516; 3582
MseI	T!TAA	17	7; 629; 854; 2201; 2262; 2383; 2404; 2415; 2427; 2438; 2455; 2553; 2824; 4643; 4657; 4662; 4714
MslI	CAYNN!NNRTG	7	365; 613; 643; 1447; 1531; 1805; 3937
MspI	C!CGG	24	601; 835; 1184; 1322; 1750; 1865; 2132; 2142; 2718; 3405; 3482; 3504; 3532; 3663; 3753; 3820; 4001; 4276; 4284; 4376; 4850; 5040; 5066; 5213
Msp20I	TGG!CCA	3	1270; 1516; 3582
MspA1I	CMG!CKG	9	1063; 1692; 1785; 1889; 2126; 2998; 3606; 4835; 5080
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	278	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; 1368; 1382; 1399; 1418; 1434; 1447; 1470; 1483; 1503; 1520; 1535; 1553; 1566; 1581; 1602; 1617; 1638; 1660; 1673; 1691; 1705; 1719; 1740; 1758; 1781; 1794; 1833; 1846; 1866; 1885; 1908; 1936; 1949; 1982; 2001; 2045; 2064; 2082; 2095; 2112; 2137; 2154; 2168; 2183; 2207; 2224; 2237; 2278; 2292; 2305; 2323; 2361; 2376; 2394; 2435; 2459; 2479; 2497; 2518; 2541; 2573; 2588; 2610; 2628; 2641; 2662; 2679; 2692; 2705; 2721; 2734; 2764; 2779; 2804; 2822; 2835; 2850; 2874; 2888; 2912; 2937; 2953; 2991; 3007; 3046; 3060; 3074; 3102; 3118; 3132; 3146; 3175; 3188; 3209; 3218; 3240; 3270; 3286; 3304; 3334; 3357; 3381; 3405; 3424; 3452; 3478; 3494; 3507; 3530; 3544; 3564; 3577; 3591; 3610; 3624; 3637; 3653; 3668; 3681; 3697; 3712; 3728; 3753; 3772; 3788; 3801; 3814; 3832; 3846; 3860; 3876; 3898; 3914; 3933; 3955; 3971; 3994; 4013; 4027; 4043; 4057; 4077; 4093; 4106; 4128; 4161; 4175; 4195; 4208; 4222; 4276; 4289; 4312; 4325; 4344; 4361; 4388; 4424; 4457; 4476; 4501; 4522; 4549; 4562; 4579; 4593; 4608; 4624; 4684; 4709; 4725; 4747; 4760; 4774; 4805; 4819; 4844; 4862; 4877; 4890; 4909; 4922; 4937; 4966; 4985; 5003; 5028; 5043; 5062; 5078; 5097; 5115; 5131; 5145; 5164; 5191; 5214; 5236; 5255; 5270; 5283; 5300; 5320; 5347; 5360; 5379; 5404; 5427; 5441; 5454; 5471
MspJI	!NNNNNNNNNNNNYNGG	233	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; 1327; 1356; 1375; 1407; 1429; 1451; 1473; 1498; 1516; 1540; 1557; 1576; 1596; 1630; 1647; 1672; 1693; 1714; 1732; 1750; 1768; 1793; 1811; 1828; 1851; 1868; 1899; 1916; 1933; 1957; 1975; 1995; 2019; 2038; 2056; 2075; 2094; 2111; 2128; 2152; 2181; 2210; 2252; 2335; 2373; 2397; 2420; 2449; 2493; 2515; 2547; 2583; 2600; 2621; 2658; 2678; 2695; 2712; 2747; 2765; 2783; 2800; 2824; 2846; 2873; 2901; 2927; 2965; 2986; 3003; 3021; 3044; 3065; 3093; 3116; 3137; 3155; 3176; 3193; 3216; 3240; 3260; 3278; 3300; 3331; 3353; 3379; 3398; 3415; 3443; 3462; 3481; 3499; 3517; 3538; 3560; 3584; 3617; 3637; 3655; 3676; 3702; 3729; 3746; 3763; 3780; 3806; 3828; 3850; 3868; 3888; 3907; 3929; 3967; 3987; 4011; 4031; 4051; 4078; 4102; 4135; 4154; 4182; 4204; 4233; 4261; 4286; 4305; 4324; 4345; 4362; 4379; 4410; 4437; 4457; 4480; 4500; 4537; 4554; 4573; 4599; 4619; 4658; 4685; 4704; 4722; 4759; 4777; 4818; 4836; 4862; 4879; 4911; 4940; 4968; 4989; 5012; 5031; 5052; 5070; 5087; 5105; 5131; 5152; 5172; 5192; 5210; 5231; 5257; 5274; 5293; 5312; 5341; 5360; 5378; 5397; 5415; 5433; 5456
MspR9I	CC!NGG	27	90; 283; 787; 836; 931; 946; 1075; 1184; 1435; 1513; 1531; 1751; 1990; 2133; 3036; 3091; 3108; 3504; 3664; 3887; 4277; 4466; 4569; 5041; 5259; 5272; 5393
MssI	GTTT!AAAC	0	
MunI	C!AATTG	2	1410; 2250
MvaI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1435; 1513; 1531; 1990; 3036; 3091; 3108; 3887; 4466; 4569; 5259; 5272; 5393
Mva1269I	GAATGCN!	1	2251
Mva1269I	G!CATTC	1	2344
MvnI	CG!CG	16	60; 2126; 2388; 2424; 2800; 2820; 2844; 2875; 3566; 3867; 4305; 4389; 4452; 4521; 4794; 5375
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	30	90; 212; 244; 283; 376; 400; 648; 1079; 1382; 1435; 1811; 2727; 2757; 2784; 2826; 3067; 3139; 3190; 3269; 3491; 3575; 3598; 3737; 3860; 3943; 4210; 4397; 4601; 4800; 5372
NaeI	GCC!GGC	3	2719; 4002; 4285
NarI	GG!CGCC	1	3500
NciI	CC!SGG	8	836; 1184; 1751; 2133; 3504; 3664; 4277; 5041
NcoI	C!CATGG	4	360; 611; 3229; 3932
NdeI	CA!TATG	1	234

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeII	!GATC	27	585; 1124; 1150; 1330; 1652; 1847; 2021; 2054; 2135; 2144; 2157; 3337; 3341; 3360; 3671; 3749; 3830; 3839; 3917; 4293; 4309; 4668; 4680; 4758; 4766; 4777; 4852
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	731
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	767
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	2717; 4000; 4283
NheI	G!CTAGC	1	591
NlaIII	CATG!	31	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1373; 1446; 1557; 1731; 1759; 1933; 2055; 2930; 3070; 3142; 3233; 3374; 3719; 3905; 3936; 3962; 4318; 4702; 5422; 5473
NlaIV	GGN!NCC	26	467; 666; 726; 1117; 1320; 1377; 1506; 1603; 1849; 1880; 2122; 2130; 2137; 2655; 2676; 2688; 2879; 3040; 3112; 3501; 3536; 4384; 4463; 4508; 5351; 5390
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	1989; 2332; 2647; 4239
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 991; 1277; 5311
Nii3877I	CYCGR!G	1	2135
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3289; 3725
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1007; 3254
NmeDI	RCCGGYNNNNNNNN!	6	612; 1876; 2729; 3831; 4012; 4295
NmeDI	!NNNNNNNNNNNNRCCGGY	6	587; 1851; 2704; 3806; 3987; 4270
NmuCI	!GTSAC	8	891; 1087; 1477; 1557; 1764; 2789; 3620; 3926
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3602
NsiI	ATGCA!T	3	3072; 3144; 5475
NspI	RCATG!Y	7	642; 1088; 1373; 3070; 3142; 3905; 5422
NspV	TT!CGAA	1	4182
OliI	CACNN!NNGTG	2	613; 1805
PabI	GTA!C	14	220; 245; 300; 333; 384; 541; 656; 806; 1058; 1394; 1619; 2075; 2123; 3807
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3070; 3142; 3905
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	2	2926; 4698
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4465; 4568
PauI	G!CGCGC	0	
PceI	AGG!CCT	2	1039; 3321
PciI	A!CATGT	2	1369; 5418
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3844; 4054
PcsI	WCGNNNN!NNNCGW	7	1253; 3794; 3871; 4114; 4188; 4581; 5099
PctI	GAATGCN!	1	2251
PctI	G!CATTC	1	2344
PdiI	GCC!GGC	3	2719; 4002; 4285
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	740; 1217; 3985; 4119; 4229; 4266; 5444
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3618
PfIMI	CCANNNN!NTGG	1	1209
PfoI	T!CCNGGA	3	944; 1988; 4275
PhoI	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1433; 1468; 1498; 1516; 1754; 1864; 1871; 2130; 2466; 2608; 3263; 3269; 3278; 3321; 3408; 3582; 3973; 4000; 4509; 4566; 4599; 4944; 5378; 5396; 5407
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	2	1511; 3881
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	3446; 3701
PleI	GAGTCNNNN!	4	898; 2087; 2551; 2983
PleI	!NNNNNGACTC	5	404; 1319; 2559; 4165; 5042
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	2063
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	1	2063

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2582
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	4712
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4744
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2550
PpsI	GAGTCNNNN!	4	898; 2087; 2551; 2983
PpsI	!NNNNNGACTC	5	404; 1319; 2559; 4165; 5042
Ppu10I	A!TGCAT	3	3068; 3140; 5471
Ppu21I	YAC!GTR	4	340; 2063; 2616; 3804
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	2	1369; 5418
PshAI	GACNN!NNGTC	2	1243; 1564
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2283; 2488
Psp03I	GGWC!C	5	1203; 1782; 1881; 4019; 4464
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	19	88; 281; 785; 929; 944; 1073; 1433; 1511; 1529; 1988; 3034; 3089; 3106; 3885; 4464; 4567; 5257; 5270; 5391
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1706
PspCI	CAC!GTG	1	2063
PspEI	G!GTNACC	0	
PspGI	!CCWGG	19	88; 281; 785; 929; 944; 1073; 1433; 1511; 1529; 1988; 3034; 3089; 3106; 3885; 4464; 4567; 5257; 5270; 5391
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	26	467; 666; 726; 1117; 1320; 1377; 1506; 1603; 1849; 1880; 2122; 2130; 2137; 2655; 2676; 2688; 2879; 3040; 3112; 3501; 3536; 4384; 4463; 4508; 5351; 5390
PspOMI	G!GGCCC	1	2128
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNN!	3	125; 3230; 4229
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	1	3632
PspPI	G!GNCC	18	83; 276; 760; 1003; 1095; 1116; 1200; 1467; 1752; 1779; 1878; 2129; 2607; 4016; 4461; 4507; 4565; 4598
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	4	1519; 3053; 3125; 4631
PspPRI	!NNNNNNNNNNNNNCTGRGG	5	855; 1548; 1985; 2966; 4161
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	4601
PstI	CTGCA!G	2	1790; 2113
PstNI	CAGNNN!CTG	4	1692; 1892; 4601; 5009
PsuI	R!GATCY	13	585; 1150; 1330; 1847; 2135; 2144; 3671; 3917; 4309; 4668; 4680; 4766; 4777
PsyI	GACN!NNGTC	1	3618
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	5	1692; 1785; 1889; 2998; 3606
RcaI	T!CATGA	2	2926; 4698
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4015
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	2229
RleAI	!NNNNNNNNNTGTGGG	1	2006
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	14	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1393; 1618; 2074; 2122; 3806
RsaNI	G!TAC	14	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1392; 1617; 2073; 2121; 3805
RseI	CAYNN!NNRTG	7	365; 613; 643; 1447; 1531; 1805; 3937

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RsrII	CG!GWCCG	1	4016
Rsr2I	CG!GWCCG	1	4016
SacI	GAGCT!C	1	1706
SacII	CCGC!GG	1	2127
SalI	G!TCGAC	1	2114
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	3844; 4054
SaqAI	T!TAA	17	7; 629; 854; 2201; 2262; 2383; 2404; 2415; 2427; 2438; 2455; 2553; 2824; 4643; 4657; 4662; 4714
SatI	GC!NGC	45	759; 810; 954; 1071; 1252; 1416; 1575; 1578; 1609; 1690; 1789; 1812; 1890; 1893; 1959; 1962; 2067; 2277; 2796; 2818; 2832; 3270; 3409; 3461; 3472; 3562; 3567; 3604; 3645; 3732; 3735; 3738; 3974; 4070; 4111; 4125; 4239; 4578; 4593; 4804; 5010; 5013; 5078; 5221; 5376
Sau96I	G!GNCC	18	83; 276; 760; 1003; 1095; 1116; 1200; 1467; 1752; 1779; 1878; 2129; 2607; 4016; 4461; 4507; 4565; 4598
Sau3AI	!GATC	27	585; 1124; 1150; 1330; 1652; 1847; 2021; 2054; 2135; 2144; 2157; 3337; 3341; 3360; 3671; 3749; 3830; 3839; 3917; 4293; 4309; 4668; 4680; 4758; 4766; 4777; 4852
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	899; 2088; 2552; 2984
SchI	!NNNNNGACTC	5	404; 1319; 2559; 4165; 5042
SciI	CTC!GAG	0	
ScrFI	CC!NGG	27	90; 283; 787; 836; 931; 946; 1075; 1184; 1435; 1513; 1531; 1751; 1990; 2133; 3036; 3091; 3108; 3504; 3664; 3887; 4277; 4466; 4569; 5041; 5259; 5272; 5393
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	9	1041; 1818; 1884; 2016; 2102; 3078; 3150; 3319; 5261
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	1399; 3655; 4140
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	16	667; 694; 727; 1546; 1706; 1997; 2096; 2132; 2691; 3446; 3539; 3613; 3803; 3865; 4575; 5108
SelI	!CGCG	16	58; 2124; 2386; 2422; 2798; 2818; 2842; 2873; 3564; 3865; 4303; 4387; 4450; 4519; 4792; 5373
SetI	ASST!	84	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; 1397; 1408; 1510; 1514; 1588; 1607; 1694; 1706; 1718; 1787; 1891; 1952; 1984; 2000; 2045; 2065; 2090; 2190; 2211; 2220; 2232; 2281; 2448; 2563; 2575; 2618; 2655; 2705; 2728; 2852; 3000; 3095; 3288; 3401; 3529; 3608; 3619; 3691; 3762; 3806; 4066; 4212; 4256; 4587; 4618; 4677; 4720; 4863; 4884; 4983; 5120; 5135; 5154; 5166; 5210; 5256; 5307
SexAI	A!CCWGGT	1	3089
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	9	848; 1463; 1973; 2316; 3079; 3151; 3799; 3863; 4138
SfaNI	!NNNNNNNNNGATGC	7	357; 1001; 1169; 3458; 3713; 3929; 5321
SfcI	C!TRYAG	5	1786; 2109; 2835; 4962; 5153
SfiI	GGCCNNNN!NGGCC	1	3275
SfoI	GGC!GCC	1	3501
Sfr274I	C!TCGAG	0	
Sfr303I	CCGC!GG	1	2127
SfuI	TT!CGAA	1	4182

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	223	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; 1368; 1382; 1401; 1434; 1447; 1470; 1485; 1503; 1524; 1542; 1566; 1581; 1602; 1617; 1638; 1660; 1673; 1698; 1719; 1740; 1758; 1781; 1794; 1837; 1870; 1885; 1908; 1936; 1959; 1983; 2001; 2045; 2064; 2082; 2097; 2137; 2154; 2207; 2236; 2278; 2361; 2399; 2435; 2519; 2541; 2573; 2610; 2628; 2647; 2662; 2704; 2721; 2738; 2773; 2787; 2804; 2826; 2850; 2874; 2939; 2953; 2991; 3007; 3047; 3060; 3079; 3102; 3119; 3132; 3151; 3181; 3202; 3219; 3242; 3277; 3304; 3335; 3357; 3383; 3405; 3424; 3452; 3488; 3507; 3530; 3544; 3564; 3577; 3591; 3610; 3624; 3643; 3675; 3689; 3702; 3728; 3759; 3772; 3789; 3806; 3820; 3837; 3855; 3870; 3898; 3914; 3933; 3955; 3971; 3994; 4013; 4038; 4057; 4077; 4104; 4128; 4161; 4180; 4208; 4222; 4288; 4312; 4327; 4350; 4371; 4388; 4436; 4463; 4477; 4506; 4530; 4563; 4580; 4600; 4613; 4626; 4684; 4711; 4730; 4760; 4785; 4805; 4819; 4844; 4862; 4899; 4937; 4966; 4994; 5008; 5028; 5043; 5064; 5078; 5097; 5115; 5131; 5171; 5191; 5218; 5236; 5257; 5270; 5283; 5300; 5324; 5347; 5379; 5404; 5431; 5453
SgeI	!NNNNNNNNNNNNCNG	195	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; 1342; 1375; 1408; 1429; 1451; 1477; 1498; 1516; 1540; 1576; 1600; 1634; 1655; 1672; 1693; 1714; 1732; 1755; 1778; 1811; 1844; 1868; 1910; 1933; 1957; 1975; 2019; 2038; 2056; 2075; 2111; 2128; 2181; 2210; 2252; 2335; 2373; 2409; 2493; 2515; 2547; 2584; 2602; 2621; 2678; 2695; 2712; 2747; 2765; 2785; 2805; 2824; 2848; 2913; 2965; 3021; 3053; 3076; 3093; 3125; 3155; 3176; 3193; 3216; 3251; 3278; 3309; 3331; 3357; 3379; 3398; 3426; 3462; 3481; 3504; 3525; 3543; 3560; 3584; 3617; 3649; 3676; 3702; 3733; 3763; 3780; 3806; 3829; 3850; 3872; 3892; 3912; 3929; 3968; 3987; 4012; 4031; 4051; 4078; 4102; 4135; 4154; 4182; 4204; 4262; 4286; 4305; 4324; 4345; 4362; 4410; 4437; 4457; 4480; 4504; 4537; 4554; 4574; 4600; 4658; 4685; 4704; 4734; 4759; 4779; 4818; 4836; 4873; 4911; 4940; 4968; 4989; 5017; 5038; 5071; 5089; 5145; 5165; 5192; 5210; 5231; 5257; 5274; 5298; 5321; 5353; 5378; 5405; 5427; 5456
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	2127
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	6	27; 1566; 2004; 2647; 4434; 5227
SimI	!GACCC	4	106; 3928; 4496; 4744
SinI	G!GWCC	5	1200; 1779; 1878; 4016; 4461
SlaI	C!TCGAG	0	
SmaI	CCC!GGG	1	2133
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	7	365; 613; 643; 1447; 1531; 1805; 3937
SmiI	C!TYRAG	10	1135; 1174; 1387; 1471; 1705; 2083; 3891; 4773; 5050; 5312
SmoI	C!TYRAG	10	1135; 1174; 1387; 1471; 1705; 2083; 3891; 4773; 5050; 5312
SmuI	CCCGCNNNN!	10	93; 119; 286; 1068; 1170; 2822; 3177; 3198; 4394; 4526
SmuI	!NNNNNNGCGGG	8	1105; 1533; 2119; 2753; 3623; 4160; 4298; 4445
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3070; 3142; 3905
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	12	18; 1410; 2104; 2250; 2314; 2392; 2418; 2429; 3076; 3148; 3240; 4658
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	2	1039; 3321
SsiI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1851; 2124; 2815; 2818; 2832; 2922; 3170; 3182; 3191; 3203; 3213; 3224; 3270; 3409; 3472; 3974; 4019; 4085; 4111; 4236; 4239; 4387; 4519; 4826; 4970; 5466

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	G!CGG	30	370; 403; 528; 758; 1070; 1112; 1337; 1540; 1958; 2126; 2760; 2787; 2875; 2985; 3566; 3630; 3731; 3734; 4014; 4069; 4167; 4305; 4452; 4592; 4835; 5080; 5201; 5220; 5347; 5375
SspI	AAT!ATT	2	2408; 2961
SspDI	G!GCGCC	1	3499
SspD5I	GGTGANNNNNNNN!	8	376; 627; 996; 1306; 1357; 1569; 4571; 4687
SspD5I	!NNNNNNNNNTCACC	4	884; 1958; 2616; 3677
SstI	GAGCT!C	1	1706
SstII	CCGC!GG	1	2127
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	929
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	20	92; 118; 285; 851; 1067; 1169; 1190; 2138; 2699; 2821; 3176; 3197; 3510; 3913; 4052; 4123; 4393; 4525; 4755; 5193
Sth132I	!NNNNNNNNCCGGG	24	15; 407; 470; 827; 900; 1104; 1532; 1742; 2118; 2700; 2752; 2853; 3580; 3622; 3655; 4159; 4268; 4297; 4444; 4548; 4579; 5032; 5076; 5284
Sth302II	CC!GG	24	602; 836; 1185; 1323; 1751; 1866; 2133; 2143; 2719; 3406; 3483; 3505; 3533; 3664; 3754; 3821; 4002; 4277; 4285; 4377; 4851; 5041; 5067; 5214
StrI	C!TCGAG	0	
StsI	GGATGNNNNNNNNNN!	4	3368; 3825; 3850; 4304
StsI	!NNNNNNNNNNNNNNNNNNCATCC	7	680; 768; 825; 1512; 1608; 1971; 3172
StuI	AGG!CCT	2	1039; 3321
StyI	C!CWGGG	6	360; 611; 3229; 3322; 3932; 4337
StyD4I	!CCNGG	27	88; 281; 785; 834; 929; 944; 1073; 1182; 1433; 1511; 1529; 1749; 1988; 2131; 3034; 3089; 3106; 3502; 3662; 3885; 4275; 4464; 4567; 5039; 5257; 5270; 5391
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	19	76; 198; 269; 543; 581; 669; 1380; 1548; 1840; 1902; 2120; 2591; 3880; 3996; 4104; 4427; 4918; 5388; 5459
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 971; 1199; 1247; 2065; 2563; 2575; 2618; 2728; 3619; 3806; 4587; 4720
TaqI	T!CGA	15	752; 779; 1247; 2115; 2649; 3340; 3613; 3769; 3793; 3829; 3991; 4182; 4227; 4482; 5320
TaqII	GACCGANNNNNNNNNN!	3	2520; 3537; 4205
TaqII	!NNNNNNNNNTCGGTC	1	4449
TaqII	CACCCANNNNNNNNNN!	1	742
TaqII	!NNNNNNNNNTGGGTG	4	172; 1333; 3404; 3996
TasI	!AATT	12	18; 1410; 2104; 2250; 2314; 2392; 2418; 2429; 3076; 3148; 3240; 4658
TatI	W!GTACW	7	217; 297; 330; 381; 653; 1616; 2072
TauI	GCSG!C	18	761; 1073; 1961; 2820; 2834; 3272; 3411; 3474; 3569; 3734; 3737; 3976; 4072; 4113; 4241; 4595; 5223; 5378
TfiI	G!AWTC	7	740; 1217; 3985; 4119; 4229; 4266; 5444
ThiI	C!TCGAG	0	
TruII	T!TAA	17	7; 629; 854; 2201; 2262; 2383; 2404; 2415; 2427; 2438; 2455; 2553; 2824; 4643; 4657; 4662; 4714
Tru9I	T!TAA	17	7; 629; 854; 2201; 2262; 2383; 2404; 2415; 2427; 2438; 2455; 2553; 2824; 4643; 4657; 4662; 4714
TscAI	CASTGNN!	9	1454; 1551; 1807; 1845; 2346; 3629; 4739; 5010; 5023
TseI	G!CWGC	27	809; 953; 1251; 1415; 1574; 1577; 1608; 1689; 1788; 1811; 1889; 1892; 1961; 2066; 2276; 2795; 3460; 3561; 3603; 3644; 3737; 4124; 4577; 4803; 5009; 5012; 5077
TsoI	TARCCANNNNNNNNNN!	2	2472; 2819
TsoI	!NNNNNNNNNTGGYTA	3	778; 2277; 4029
Tsp45I	!GTSAC	8	891; 1087; 1477; 1557; 1764; 2789; 3620; 3926
Tsp509I	!AATT	12	18; 1410; 2104; 2250; 2314; 2392; 2418; 2429; 3076; 3148; 3240; 4658
TspDTI	ATGAANNNNNNNNNN!	4	661; 2258; 3559; 4263
TspDTI	!NNNNNNNNNTTCAT	8	26; 789; 810; 1611; 1974; 3977; 4433; 4640
TspEI	!AATT	12	18; 1410; 2104; 2250; 2314; 2392; 2418; 2429; 3076; 3148; 3240; 4658
TspGWI	ACGGANNNNNNNNNN!	2	1714; 4375
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	2131
TspRI	CASTGNN!	9	1454; 1551; 1807; 1845; 2346; 3629; 4739; 5010; 5023
TstI	CACNNNNNTCCNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3618
Tth111II	CAARCANNNNNNNNNN!	2	841; 4827
Tth111III	!NNNNNNNNNTGYTTG	3	3935; 4795; 4834
UnbI	!GGNCC	18	82; 275; 759; 1002; 1094; 1115; 1199; 1466; 1751; 1778; 1877; 2128; 2606; 4015; 4460; 4506; 4564; 4597
Van9I	CCANNNN!NTGG	1	1209
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	690; 5104
VpaK11AI	!GGWCC	5	1199; 1778; 1877; 4015; 4460
VpaK11BI	G!GWCC	5	1200; 1779; 1878; 4016; 4461
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	2104; 2314; 2418; 2429
XbaI	T!CTAGA	1	2147
XceI	RCATG!Y	7	642; 1088; 1373; 3070; 3142; 3905; 5422
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	0	
XhoII	R!GATCY	13	585; 1150; 1330; 1847; 2135; 2144; 3671; 3917; 4309; 4668; 4680; 4766; 4777
XmaI	C!CCGGG	1	2131
XmaJI	C!CTAGG	2	3322; 4337
XmiI	GT!MKAC	2	1190; 2115
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	8	592; 2148; 2349; 2767; 3323; 4338; 4672; 4925
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3072; 3144; 5475