

pFusionRed-endo vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2157; 2362
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	5	1618; 1762; 2445; 3401; 5190
AatI	AGG!CCT	2	1039; 3195
AatII	GACGT!C	5	125; 178; 261; 447; 1622
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1190
AccII	CG!CG	22	60; 1820; 1889; 1911; 1913; 1918; 1983; 1992; 2262; 2298; 2674; 2694; 2718; 2749; 3440; 3741; 4179; 4263; 4326; 4395; 4668; 5249
AccIII	T!CCGGA	1	1321
Acc16I	TGC!GCA	3	1750; 1834; 3476
Acc36I	ACCTGCNNNN!	3	1754; 3642; 4092
Acc36I	!NNNNNNNNGCAGGT	2	1530; 3261
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	6	465; 664; 724; 2527; 3373; 3408
AccB7I	CCANNNN!NTGG	1	1209
AccBSI	CCG!CTC	3	1599; 2798; 3987
AccBSI	GAG!CGG	2	2634; 4041
AceIII	CAGCTCNNNNNNN!	1	2330
AceIII	!NNNNNNNNNNGAGCTG	3	552; 610; 1762
AciI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1587; 1597; 1767; 1782; 1818; 1916; 1981; 2689; 2692; 2706; 2796; 3044; 3056; 3065; 3077; 3087; 3098; 3144; 3283; 3346; 3848; 3893; 3959; 3985; 4110; 4113; 4261; 4393; 4700; 4844; 5340
AciI	G!CGG	27	370; 403; 528; 758; 1070; 1112; 1593; 2634; 2661; 2749; 2859; 3440; 3504; 3605; 3608; 3888; 3943; 4041; 4179; 4326; 4466; 4709; 4954; 5075; 5094; 5221; 5249
AcI	AA!CGTT	0	
AcIWI	GGATCNNNN!	10	1332; 2017; 2026; 3242; 3553; 3799; 4191; 4550; 4648; 4734
AcIWI	!NNNNNGATCC	7	580; 1145; 2004; 3618; 4162; 4549; 4646
AcoI	Y!GGCCR	11	1268; 1569; 1594; 1730; 1815; 1826; 1904; 3280; 3454; 3845; 3872
AcsI	R!AATTY	4	1354; 2188; 2292; 2303
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	1120; 3520; 3952
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	1443; 4750
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 1187; 1619; 3374; 4076; 4155
AdeI	CACNNN!GTG	2	1260; 2490
AfaI	GT!AC	10	219; 244; 299; 332; 383; 540; 655; 805; 1057; 3680
AfeI	AGC!GCT	2	596; 1930
AfiI	CCNNNNN!NNGG	23	49; 721; 1000; 1066; 1209; 1679; 1824; 2005; 2386; 2712; 3104; 3355; 3899; 4180; 4212; 4344; 4379; 4429; 4461; 4814; 5093; 5259; 5277
AflIII	C!TTAAG	0	
AflIII	A!CRYGT	2	2260; 5292
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	6	687; 2785; 2829; 2839; 3252; 4828
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	17	88; 281; 785; 929; 944; 1073; 1571; 1724; 2908; 2963; 2980; 3759; 4338; 4441; 5131; 5144; 5265
AjuI	GAANNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNTTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	CCAANNNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AlcI	CACNN!NNGTG	1	613
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2948; 3020
AlfI	!NNNNNNNNNNNGCANNNNNNNTGC	2	2914; 2986
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	2456
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	2424
AluI	AG!CT	21	566; 624; 651; 797; 1104; 1338; 1344; 1374; 1567; 1776; 2153; 2320; 2577; 2872; 3160; 3480; 3938; 4735; 4992; 5038; 5128
AluBI	AG!CT	21	566; 624; 651; 797; 1104; 1338; 1344; 1374; 1567; 1776; 2153; 2320; 2577; 2872; 3160; 3480; 3938; 4735; 4992; 5038; 5128
AlwI	GGATCNNNN!	10	1332; 2017; 2026; 3242; 3553; 3799; 4191; 4550; 4648; 4734
AlwI	!NNNNNGATCC	7	580; 1145; 2004; 3618; 4162; 4549; 4646
Alw21I	GWGCW!C	6	694; 1340; 1864; 3487; 3677; 4982
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	8	1042; 1132; 1231; 1894; 2798; 3216; 4235; 4363
Alw44I	G!TGCAC	2	690; 4978
AlwNI	CAGNNN!CTG	3	1374; 4475; 4883
Ama87I	C!YCGRG	4	1333; 1672; 1687; 1855
Aor13HI	T!CCGGA	1	1321
Aor51HI	AGC!GCT	2	596; 1930
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	4	1959; 2942; 3014; 4476
ApaLI	G!TGCAC	2	690; 4978
ApeKI	G!CWGC	20	809; 953; 1251; 1751; 1920; 1949; 1961; 2150; 2669; 3334; 3435; 3477; 3518; 3611; 3998; 4451; 4677; 4883; 4886; 4951
ApoI	R!AATTY	4	1354; 2188; 2292; 2303
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3889
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3683; 4336; 5174
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3773
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	785
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	3	1338; 1409; 3202
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	3944
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	25	586; 1125; 1151; 1325; 1330; 1377; 2010; 2019; 2032; 3212; 3216; 3235; 3546; 3624; 3705; 3714; 3792; 4168; 4184; 4543; 4555; 4633; 4641; 4652; 4727
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3492
Asp700I	GAANN!NNTTC	2	1699; 1799
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3196; 4211
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	33	597; 1084; 1291; 1751; 1822; 1835; 1889; 1913; 1915; 1920; 1931; 1985; 1994; 2640; 2648; 2674; 2696; 2705; 2718; 2749; 3368; 3376; 3440; 3477; 3743; 4003; 4179; 4265; 4668; 4777; 4951; 5051; 5118
AspS9I	G!GNCC	17	83; 276; 760; 1003; 1095; 1116; 1200; 1389; 1683; 1779; 1978; 2481; 3890; 4335; 4381; 4439; 4472
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	4056
AsuC2I	CC!SGG	9	836; 1184; 1609; 1651; 2006; 3378; 3538; 4151; 4915
AsuHPI	GGTGANNNNNNNN!	8	376; 627; 996; 1306; 1432; 1704; 4445; 4561
AsuHPI	!NNNNNNNTCACC	3	885; 2491; 3552
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	1333; 1672; 1687; 1855

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AvaII	G!GWCC	5	1200; 1389; 1683; 3890; 4335
AviII	TGC!GCA	3	1750; 1834; 3476
AvrII	C!CTAGG	2	3196; 4211
AxyI	CC!TNAGG	3	869; 2854; 4486
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	8	667; 694; 727; 1493; 1718; 3320; 3413; 4982
BalI	TGG!CCA	4	1270; 1571; 1732; 3456
BamHI	G!GATCC	1	2009
BanI	G!GYRCC	6	465; 664; 724; 2527; 3373; 3408
BanII	GRGCY!C	4	1340; 2565; 3739; 4449
BanIII	AT!CGAT	1	3214
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	1	1209
BauI	C!ACGAG	3	1255; 4092; 5119
BauI	C!TCGTG	2	1105; 3966
BbeI	GGCG!C	1	3377
Bbr7I	GAAGACNNNNNN!	1	916
Bbr7I	!NNNNNNNNNGTCTTC	2	1444; 1882
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	911
BbsI	!NNNNNGTCTTC	2	1449; 1887
BbuI	GCATG!C	3	2944; 3016; 3779
BbvI	GCAGCNNNNNNNN!	9	821; 1263; 1763; 2162; 3447; 3489; 4010; 4463; 4963
BbvI	!NNNNNNNNNNNGCTGC	9	940; 1907; 1936; 2656; 3321; 3505; 3598; 4664; 4870
Bbv12I	GWGCW!C	6	694; 1340; 1864; 3487; 3677; 4982
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	1726; 2504; 3068; 3594; 4096
BccI	!NNNNNGATGG	6	1291; 1417; 1525; 2472; 3252; 3680
BceAI	ACGGCNNNNNNNNNN!	9	822; 966; 1017; 1083; 1830; 1919; 1950; 3800; 4287
BceAI	!NNNNNNNNNNNGCCGT	4	1813; 2515; 3333; 4792
Bcefl	ACGGCNNNNNNNNNN!	9	822; 966; 1017; 1083; 1830; 1919; 1950; 3800; 4287
Bcefl	!NNNNNNNNNNNGCCGT	4	1814; 2516; 3334; 4793
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	1880
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNNTGC	1	1846
BciVI	GTATCCNNNNNN!	3	2803; 3593; 5094
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2031
BcnI	CC!SGG	9	836; 1184; 1609; 1651; 2006; 3378; 3538; 4151; 4915
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNN!	2	2054; 5227
BdaI	!NNNNNNNNNTGANNNNNTCA	2	2020; 5193
BfaI	C!TAG	8	592; 2022; 2223; 2641; 3197; 4212; 4546; 4799
BfiI	ACTGGGNNNN!	1	3323
BfiI	!NNNNCCCAGT	2	289; 3075
BfmI	C!TRYAG	4	1921; 2709; 4836; 5027
BfoI	RGCGC!Y	7	598; 1292; 1932; 2641; 2649; 3377; 5052
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2803; 3593; 5094
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	3	1754; 3642; 4092
BfuAI	!NNNNNNNGCAGGT	2	1530; 3261
BfuCI	!GATC	25	585; 1124; 1150; 1324; 1329; 1376; 2009; 2018; 2031; 3211; 3215; 3234; 3545; 3623; 3704; 3713; 3791; 4167; 4183; 4542; 4554; 4632; 4640; 4651; 4726
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1079; 3149
BglII	A!GATCT	1	1329

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BisI	GC!NGC	42	759; 810; 954; 1071; 1252; 1594; 1597; 1752; 1818; 1916; 1921; 1950; 1962; 1981; 2151; 2670; 2692; 2706; 3144; 3283; 3335; 3346; 3436; 3441; 3478; 3519; 3606; 3609; 3612; 3848; 3944; 3985; 3999; 4113; 4452; 4467; 4678; 4884; 4887; 4952; 5095; 5250
BlnI	C!CTAGG	2	3196; 4211
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	42	760; 811; 955; 1072; 1253; 1595; 1598; 1753; 1819; 1917; 1922; 1951; 1963; 1982; 2152; 2671; 2693; 2707; 3145; 3284; 3336; 3347; 3437; 3442; 3479; 3520; 3607; 3610; 3613; 3849; 3945; 3986; 4000; 4114; 4453; 4468; 4679; 4885; 4888; 4953; 5096; 5251
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	5	1200; 1389; 1683; 3890; 4335
Bme1390I	CC!NGG	26	90; 283; 787; 836; 931; 946; 1075; 1184; 1573; 1609; 1651; 1726; 2006; 2910; 2965; 2982; 3378; 3538; 3761; 4151; 4340; 4443; 4915; 5133; 5146; 5267
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	1333; 1672; 1687; 1855
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	17	84; 277; 761; 1004; 1096; 1117; 1201; 1390; 1684; 1780; 1979; 2482; 3891; 4336; 4382; 4440; 4473
BmiI	GGN!NCC	24	467; 666; 726; 1117; 1320; 1428; 1684; 1685; 1796; 1938; 2011; 2529; 2550; 2562; 2753; 2914; 2986; 3375; 3410; 4258; 4337; 4382; 5225; 5264
BmrI	ACTGGGNNNNN!	1	3323
BmrI	!NNNNCCCAGT	2	289; 3075
BmrFI	CC!NGG	26	90; 283; 787; 836; 931; 946; 1075; 1184; 1573; 1609; 1651; 1726; 2006; 2910; 2965; 2982; 3378; 3538; 3761; 4151; 4340; 4443; 4915; 5133; 5146; 5267
BmsI	GCATCNNNNN!	9	848; 1844; 1961; 2190; 2953; 3025; 3673; 3737; 4012
BmsI	!NNNNNNNNNGATGC	7	357; 1001; 1169; 3332; 3587; 3803; 5195
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	3323
BmuI	!NNNNCCCAGT	2	289; 3075
BoxI	GACNN!NNGTC	1	1243
BpiI	GAAGACNN!	1	911
BpiI	!NNNNNNGTCTTC	2	1449; 1887
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3163; 4062
BpI	!NNNNNNNNNGAGNNNNNCTC	2	3131; 4030
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	1681; 4214
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	928; 4157
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	4056
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	911
BpuAI	!NNNNNNGTCTTC	2	1449; 1887
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	1156; 4668; 5207
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	4	1159; 1324; 3750; 4909
BpuMI	CC!SGG	9	836; 1184; 1609; 1651; 2006; 3378; 3538; 4151; 4915
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	1132; 1231; 4363
Bsa29I	AT!CGAT	1	3214
BsaAI	YAC!GTR	3	340; 2490; 3678
BsaBI	GATNN!NNATC	2	2036; 3233
BsaHI	GR!CGYC	9	122; 175; 258; 444; 1187; 1619; 3374; 4076; 4155
BsaJI	C!CNNGG	24	360; 611; 698; 929; 1361; 1382; 1688; 1823; 1874; 2005; 2908; 2980; 3103; 3138; 3147; 3196; 3537; 3806; 4211; 4338; 4339; 4441; 4442; 5132
BsaMI	GAATGCN!	1	2125
BsaMI	G!CATTC	1	2218
BsaWI	W!CCGGW	8	600; 1321; 1397; 2015; 3405; 4249; 4939; 5086
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2454
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	

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BsaXI	GGAGNNNNNGTNNNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2424
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTTG	2	2375; 4282
Bsc4I	CCNNNNN!NNGG	23	49; 721; 1000; 1066; 1209; 1679; 1824; 2005; 2386; 2712; 3104; 3355; 3899; 4180; 4212; 4344; 4379; 4429; 4461; 4814; 5093; 5259; 5277
BscAI	GCATCNNNN!	9	847; 1843; 1960; 2189; 2952; 3024; 3672; 3736; 4011
BscAI	!NNNNNNGATGC	7	360; 1004; 1172; 3335; 3590; 3806; 5198
BseI	ACTGGN!	6	1214; 1287; 1412; 3318; 3519; 4765
BseI	C!CAGT	5	295; 2403; 3081; 4877; 4890
Bse8I	GATNN!NNATC	2	2036; 3233
Bse21I	CC!TNAGG	3	869; 2854; 4486
Bse118I	R!CCGGY	5	600; 2591; 3693; 3874; 4157
BseAI	T!CCGGA	1	1321
BseBI	CC!WGG	17	90; 283; 787; 931; 946; 1075; 1573; 1726; 2910; 2965; 2982; 3761; 4340; 4443; 5133; 5146; 5267
BseCI	AT!CGAT	1	3214
BseDI	C!CNNGG	24	360; 611; 698; 929; 1361; 1382; 1688; 1823; 1874; 2005; 2908; 2980; 3103; 3138; 3147; 3196; 3537; 3806; 4211; 4338; 4339; 4441; 4442; 5132
Bse3DI	GCAATGNN!	1	3607
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	6	1536; 1815; 3234; 3691; 3716; 4170
BseGI	!CATCC	7	694; 782; 839; 1667; 1721; 1835; 3060
BseJI	GATNN!NNATC	2	2036; 3233
BseLI	CCNNNNN!NNGG	23	49; 721; 1000; 1066; 1209; 1679; 1824; 2005; 2386; 2712; 3104; 3355; 3899; 4180; 4212; 4344; 4379; 4429; 4461; 4814; 5093; 5259; 5277
BseMI	GCAATGNN!	1	3607
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	4500
BseMII	!NNNNNNNNCTGAG	6	860; 2845; 3147; 4028; 4600; 5009
BseNI	ACTGGN!	6	1214; 1287; 1412; 3318; 3519; 4765
BseNI	C!CAGT	5	295; 2403; 3081; 4877; 4890
BsePI	G!CGCGC	1	1911
BseRI	GAGGAGNNNNNNNNNN!	3	1328; 1399; 3192
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	8	667; 694; 727; 1493; 1718; 3320; 3413; 4982
BseXI	GCAGCNNNNNNNN!	9	821; 1263; 1763; 2162; 3447; 3489; 4010; 4463; 4963
BseXI	!NNNNNNNNNNNGCTGC	9	940; 1907; 1936; 2656; 3321; 3505; 3598; 4664; 4870
BseX3I	C!GGCCG	3	1594; 1815; 3280
BseYI	C!CCAGC	4	993; 2917; 2989; 4988
BseYI	G!CTGGG	2	1031; 3878
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	22	60; 1820; 1889; 1911; 1913; 1918; 1983; 1992; 2262; 2298; 2674; 2694; 2718; 2749; 3440; 3741; 4179; 4263; 4326; 4395; 4668; 5249
Bsh1285I	CGRY!CG	6	605; 1587; 1597; 1818; 3283; 4958
BshFI	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1571; 1596; 1732; 1780; 1817; 1828; 1906; 1980; 2340; 2482; 3137; 3143; 3152; 3195; 3282; 3456; 3847; 3874; 4383; 4440; 4473; 4818; 5252; 5270; 5281
BshNI	G!GYRCC	6	465; 664; 724; 2527; 3373; 3408
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	3214
BsiEI	CGRY!CG	6	605; 1587; 1597; 1818; 3283; 4958
BsiHKAI	GWGCW!C	6	694; 1340; 1864; 3487; 3677; 4982
BsiHKCI	C!YCGRG	4	1333; 1672; 1687; 1855
BsiSI	C!CGG	25	601; 835; 1184; 1322; 1398; 1609; 1651; 2005; 2016; 2592; 3279; 3356; 3378; 3406; 3537; 3627; 3694; 3875; 4150; 4158; 4250; 4724; 4914; 4940; 5087
BsiWI	C!GTACG	0	
BslI	CCNNNNN!NNGG	23	49; 721; 1000; 1066; 1209; 1679; 1824; 2005; 2386; 2712; 3104; 3355; 3899; 4180; 4212; 4344; 4379; 4429; 4461; 4814; 5093; 5259; 5277

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsIF1	GGGACNNNNNNNNNN!	7	175; 326; 494; 1573; 3525; 4057; 4166
BsIF1	!NNNNNNNNNNNNNGTCCC	6	1669; 1691; 2890; 2962; 3026; 4321
BsmI	GAATGCN!	1	2125
BsmI	G!CATTC	1	2218
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	8	1042; 1132; 1231; 1894; 2798; 3216; 4235; 4363
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	2	1042; 1894
BsmFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1573; 3525; 4057; 4166
BsmFI	!NNNNNNNNNNNNNGTCCC	6	1669; 1691; 2890; 2962; 3026; 4321
BsnI	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1571; 1596; 1732; 1780; 1817; 1828; 1906; 1980; 2340; 2482; 3137; 3143; 3152; 3195; 3282; 3456; 3847; 3874; 4383; 4440; 4473; 4818; 5252; 5270; 5281
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	1132; 1231; 4363
BsoBI	C!YCGRG	4	1333; 1672; 1687; 1855
Bsp13I	T!CCGGA	1	1321
Bsp19I	C!CATGG	6	360; 611; 1361; 1823; 3103; 3806
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4177
Bsp24I	!NNNNNNCCANNNNNGTC	2	4598; 4776
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4630; 4808
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4145
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4056
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	25	585; 1124; 1150; 1324; 1329; 1376; 2009; 2018; 2031; 3211; 3215; 3234; 3545; 3623; 3704; 3713; 3791; 4167; 4183; 4542; 4554; 4632; 4640; 4651; 4726
Bsp1286I	GDGCH!C	15	667; 694; 727; 1340; 1493; 1718; 1864; 2565; 3320; 3413; 3487; 3677; 3739; 4449; 4982
Bsp1407I	T!GTACA	1	653
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1587; 1597; 1767; 1782; 1818; 1916; 1981; 2689; 2692; 2706; 2796; 3044; 3056; 3065; 3077; 3087; 3098; 3144; 3283; 3346; 3848; 3893; 3959; 3985; 4110; 4113; 4261; 4393; 4700; 4844; 5340
BspACI	G!CGG	27	370; 403; 528; 758; 1070; 1112; 1593; 2634; 2661; 2749; 2859; 3440; 3504; 3605; 3608; 3888; 3943; 4041; 4179; 4326; 4466; 4709; 4954; 5075; 5094; 5221; 5249
BspCNI	CTCAGNNNNNNNN!	1	4499
BspCNI	!NNNNNNCTGAG	6	861; 2846; 3148; 4029; 4601; 5010
BspDI	AT!CGAT	1	3214
BspD6I	GACTCNNNN!	5	418; 1662; 2447; 4053; 4930
BspD6I	!NNNNNGAGTC	3	883; 2410; 2842
BspEI	T!CCGGA	1	1321
BspFNI	CG!CG	22	60; 1820; 1889; 1911; 1913; 1918; 1983; 1992; 2262; 2298; 2674; 2694; 2718; 2749; 3440; 3741; 4179; 4263; 4326; 4395; 4668; 5249
BspHI	T!CATGA	2	2800; 4572
BspLI	GGN!NCC	24	467; 666; 726; 1117; 1320; 1428; 1684; 1685; 1796; 1938; 2011; 2529; 2550; 2562; 2753; 2914; 2986; 3375; 3410; 4258; 4337; 4382; 5225; 5264
BspMI	ACCTGCNNNN!	3	1754; 3642; 4092
BspMI	!NNNNNNNGCAGGT	2	1530; 3261
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	10	1332; 2017; 2026; 3242; 3553; 3799; 4191; 4550; 4648; 4734
BspPI	!NNNNNGATCC	7	580; 1145; 2004; 3618; 4162; 4549; 4646
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3718; 3928
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4056
BspT107I	G!GYRCC	6	465; 664; 724; 2527; 3373; 3408
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	1132; 1231; 4363
BsrI	ACTGNN!	6	1214; 1287; 1412; 3318; 3519; 4765
BsrI	C!CAGT	5	295; 2403; 3081; 4877; 4890

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrBI	CCG!CTC	3	1599; 2798; 3987
BsrBI	GAG!CGG	2	2634; 4041
BsrDI	GCAATGNN!	1	3607
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	5	600; 2591; 3693; 3874; 4157
BsrGI	T!GTACA	1	653
BsrSI	ACTGGN!	6	1214; 1287; 1412; 3318; 3519; 4765
BsrSI	C!CAGT	5	295; 2403; 3081; 4877; 4890
BssAI	R!CCGGY	5	600; 2591; 3693; 3874; 4157
BssECI	C!CNNGG	24	360; 611; 698; 929; 1361; 1382; 1688; 1823; 1874; 2005; 2908; 2980; 3103; 3138; 3147; 3196; 3537; 3806; 4211; 4338; 4339; 4441; 4442; 5132
BssHII	G!CGCGC	1	1911
BssKI	!CCNGG	26	88; 281; 785; 834; 929; 944; 1073; 1182; 1571; 1607; 1649; 1724; 2004; 2908; 2963; 2980; 3376; 3536; 3759; 4149; 4338; 4441; 4913; 5131; 5144; 5265
BssMI	!GATC	25	585; 1124; 1150; 1324; 1329; 1376; 2009; 2018; 2031; 3211; 3215; 3234; 3545; 3623; 3704; 3713; 3791; 4167; 4183; 4542; 4554; 4632; 4640; 4651; 4726
BssNI	GR!CGYC	9	122; 175; 258; 444; 1187; 1619; 3374; 4076; 4155
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1255; 4092; 5119
BssSI	C!TCGTG	2	1105; 3966
BssTII	C!CWWGG	9	360; 611; 1361; 1823; 1874; 3103; 3196; 3806; 4211
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2841; 3718; 3928
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 1187; 1619; 3374; 4076; 4155
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	4	1958; 2941; 3013; 4475
BstAUI	T!GTACA	1	653
BstBI	TT!CGAA	1	4056
Bst2BI	C!ACGAG	3	1255; 4092; 5119
Bst2BI	C!TCGTG	2	1105; 3966
BstBAI	YAC!GTR	3	340; 2490; 3678
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 669; 1497; 2465; 3754; 3870; 3978; 4301; 4792; 5262; 5333
BstC8I	GCN!NGC	37	86; 279; 593; 622; 712; 916; 1447; 1569; 1591; 1782; 1885; 1913; 1996; 2593; 2636; 2650; 2923; 2942; 2995; 3014; 3268; 3454; 3673; 3739; 3745; 3773; 3777; 3822; 3876; 4159; 4346; 4393; 4449; 4471; 4682; 5242; 5279
BstDEI	C!TNAG	7	869; 2854; 3156; 4037; 4486; 4609; 5018
BstDSI	C!CRYGG	6	360; 611; 1361; 1823; 3103; 3806
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	6	1536; 1815; 3234; 3691; 3716; 4170
BstF5I	!CATCC	7	694; 782; 839; 1667; 1721; 1835; 3060
BstFNI	CG!CG	22	60; 1820; 1889; 1911; 1913; 1918; 1983; 1992; 2262; 2298; 2674; 2694; 2718; 2749; 3440; 3741; 4179; 4263; 4326; 4395; 4668; 5249
BstH2I	RGCGC!Y	7	598; 1292; 1932; 2641; 2649; 3377; 5052
BstHHI	GCG!C	33	597; 1084; 1291; 1751; 1822; 1835; 1889; 1913; 1915; 1920; 1931; 1985; 1994; 2640; 2648; 2674; 2696; 2705; 2718; 2749; 3368; 3376; 3440; 3477; 3743; 4003; 4179; 4265; 4668; 4777; 4951; 5051; 5118
BstKTI	GAT!C	25	588; 1127; 1153; 1327; 1332; 1379; 2012; 2021; 2034; 3214; 3218; 3237; 3548; 3626; 3707; 3716; 3794; 4170; 4186; 4545; 4557; 4635; 4643; 4654; 4729
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	8	1042; 1132; 1231; 1894; 2798; 3216; 4235; 4363
BstMBI	!GATC	25	585; 1124; 1150; 1324; 1329; 1376; 2009; 2018; 2031; 3211; 3215; 3234; 3545; 3623; 3704; 3713; 3791; 4167; 4183; 4542; 4554; 4632; 4640; 4651; 4726
BstMCI	CGRY!CG	6	605; 1587; 1597; 1818; 3283; 4958

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstMWI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 648; 1079; 1912; 1926; 1958; 1977; 1989; 2601; 2631; 2658; 2700; 2941; 3013; 3064; 3143; 3365; 3449; 3472; 3611; 3734; 3817; 4084; 4271; 4475; 4674; 5246
BstNI	CC!WGG	17	90; 283; 787; 931; 946; 1075; 1573; 1726; 2910; 2965; 2982; 3761; 4340; 4443; 5133; 5146; 5267
BstNSI	RCATG!Y	8	642; 1088; 1445; 1765; 2944; 3016; 3779; 5296
BstOI	CC!WGG	17	90; 283; 787; 931; 946; 1075; 1573; 1726; 2910; 2965; 2982; 3761; 4340; 4443; 5133; 5146; 5267
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1243
BstSCI	!CCNGG	26	88; 281; 785; 834; 929; 944; 1073; 1182; 1571; 1607; 1649; 1724; 2004; 2908; 2963; 2980; 3376; 3536; 3759; 4149; 4338; 4441; 4913; 5131; 5144; 5265
BstSFI	C!TRYAG	4	1921; 2709; 4836; 5027
BstSLI	GKGCM!C	8	667; 694; 727; 1493; 1718; 3320; 3413; 4982
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	22	60; 1820; 1889; 1911; 1913; 1918; 1983; 1992; 2262; 2298; 2674; 2694; 2718; 2749; 3440; 3741; 4179; 4263; 4326; 4395; 4668; 5249
Bst2UI	CC!WGG	17	90; 283; 787; 931; 946; 1075; 1573; 1726; 2910; 2965; 2982; 3761; 4340; 4443; 5133; 5146; 5267
BstV1I	GCAGCNNNNNNN!	9	821; 1263; 1763; 2162; 3447; 3489; 4010; 4463; 4963
BstV1I	!NNNNNNNNNNNGCTGC	9	940; 1907; 1936; 2656; 3321; 3505; 3598; 4664; 4870
BstV2I	GAAGACNN!	1	911
BstV2I	!NNNNNNGTCTTC	2	1449; 1887
BstXI	CCANNNNN!NTGG	1	1725
BstX2I	R!GATCY	12	585; 1150; 1329; 2009; 2018; 3545; 3791; 4183; 4542; 4554; 4640; 4651
BstYI	R!GATCY	12	585; 1150; 1329; 2009; 2018; 3545; 3791; 4183; 4542; 4554; 4640; 4651
BstZI	C!GGCCG	3	1594; 1815; 3280
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2803; 3593; 5094
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3214
Bsu36I	CC!TNAGG	3	869; 2854; 4486
BsuRI	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1571; 1596; 1732; 1780; 1817; 1828; 1906; 1980; 2340; 2482; 3137; 3143; 3152; 3195; 3282; 3456; 3847; 3874; 4383; 4440; 4473; 4818; 5252; 5270; 5281
BsuTUI	AT!CGAT	1	3214
BtgI	C!CRYGG	6	360; 611; 1361; 1823; 3103; 3806
BtgZI	GCGATGNNNNNNNNNN!	2	2491; 3826
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3645; 3989
BthCI	GCNG!C	42	761; 812; 956; 1073; 1254; 1596; 1599; 1754; 1820; 1918; 1923; 1952; 1964; 1983; 2153; 2672; 2694; 2708; 3146; 3285; 3337; 3348; 3438; 3443; 3480; 3521; 3608; 3611; 3614; 3850; 3946; 3987; 4001; 4115; 4454; 4469; 4680; 4886; 4889; 4954; 5097; 5252
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2213
BtsCI	GGATGNN!	6	1536; 1815; 3234; 3691; 3716; 4170
BtsCI	!CATCC	7	694; 782; 839; 1667; 1721; 1835; 3060
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	1754; 3642; 4092
BveI	!NNNNNNNNGCAGGT	2	1530; 3261
Cac8I	GCN!NGC	37	86; 279; 593; 622; 712; 916; 1447; 1569; 1591; 1782; 1885; 1913; 1996; 2593; 2636; 2650; 2923; 2942; 2995; 3014; 3268; 3454; 3673; 3739; 3745; 3773; 3777; 3822; 3876; 4159; 4346; 4393; 4449; 4471; 4682; 5242; 5279
CaiI	CAGNNN!CTG	3	1374; 4475; 4883
CciI	T!CATGA	2	2800; 4572
CciNI	GC!GGCCGC	1	1594
CdiI	CATC!G	5	352; 3663; 3668; 3866; 4007

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CdiI	C!GATG	4	1052; 1233; 2477; 3812
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5246
CdpI	!NNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3035; 3077
CelII	GC!TNAGC	0	
CfoI	GCG!C	33	597; 1084; 1291; 1751; 1822; 1835; 1889; 1913; 1915; 1920; 1931; 1985; 1994; 2640; 2648; 2674; 2696; 2705; 2718; 2749; 3368; 3376; 3440; 3477; 3743; 4003; 4179; 4265; 4668; 4777; 4951; 5051; 5118
CfrI	Y!GGCCR	11	1268; 1569; 1594; 1730; 1815; 1826; 1904; 3280; 3454; 3845; 3872
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	5	600; 2591; 3693; 3874; 4157
Cfr13I	G!GNCC	17	83; 276; 760; 1003; 1095; 1116; 1200; 1389; 1683; 1779; 1978; 2481; 3890; 4335; 4381; 4439; 4472
Cfr42I	CCGC!GG	0	
ChaI	GATC!	25	589; 1128; 1154; 1328; 1333; 1380; 2013; 2022; 2035; 3215; 3219; 3238; 3549; 3627; 3708; 3717; 3795; 4171; 4187; 4546; 4558; 4636; 4644; 4655; 4730
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	706; 3191; 4631; 4731; 4809
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2858; 2953; 4145; 4695; 5250
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2892; 2987; 4179; 4729; 5284
CjeI	!NNNNNNNNCCANNNNNNGT	5	672; 3157; 4597; 4697; 4775
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	2	4631; 4809
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 4145; 4744
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 4178; 4777
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	4598; 4776
Clal	AT!CGAT	1	3214
CpoI	CG!GWCCG	1	3890
CseI	GACGCNNNNN!	3	526; 4084; 4163
CseI	!NNNNNNNNNGCGTC	4	1176; 2707; 4602; 5180
CsiI	A!CCWGGT	1	2963
CspI	CG!GWCCG	1	3890
Csp6I	G!TAC	10	218; 243; 298; 331; 382; 539; 654; 804; 1056; 3679
Csp45I	TT!CGAA	1	4056
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	1	1482
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	1	1517
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	656; 1247; 2654; 4263
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	30	301; 361; 612; 639; 645; 657; 735; 801; 881; 1085; 1092; 1362; 1442; 1629; 1762; 1785; 1824; 2801; 2941; 3013; 3104; 3245; 3590; 3776; 3807; 3833; 4189; 4573; 5293; 5344
CviJI	RG!CY	110	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; 1338; 1344; 1374; 1429; 1552; 1567; 1571; 1596; 1649; 1732; 1776; 1780; 1817; 1828; 1843; 1906; 1937; 1949; 1980; 2043; 2153; 2320; 2340; 2482; 2563; 2577; 2591; 2872; 2913; 2985; 3108; 3137; 3143; 3152; 3160; 3183; 3195; 3201; 3282; 3299; 3307; 3334; 3359; 3443; 3452; 3456; 3480; 3518; 3594; 3611; 3630; 3693; 3737; 3747; 3764; 3847; 3874; 3878; 3915; 3938; 3954; 4134; 4161; 4222; 4344; 4383; 4440; 4447; 4454; 4473; 4484; 4735; 4764; 4807; 4818; 4883; 4962; 4987; 4992; 5038; 5128; 5226; 5252; 5270; 5281
CviKI-1	RG!CY	110	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; 1338; 1344; 1374; 1429; 1552; 1567; 1571; 1596; 1649; 1732; 1776; 1780; 1817; 1828; 1843; 1906; 1937; 1949; 1980; 2043; 2153; 2320; 2340; 2482; 2563; 2577; 2591; 2872; 2913; 2985; 3108; 3137; 3143; 3152; 3160; 3183; 3195; 3201; 3282; 3299; 3307; 3334; 3359; 3443; 3452; 3456; 3480; 3518; 3594; 3611; 3630; 3693; 3737; 3747; 3764; 3847; 3874; 3878; 3915; 3938; 3954; 4134; 4161; 4222; 4344; 4383; 4440; 4447; 4454; 4473; 4484; 4735; 4764; 4807; 4818; 4883; 4962; 4987; 4992; 5038; 5128; 5226; 5252; 5270; 5281
CviQI	G!TAC	10	218; 243; 298; 331; 382; 539; 654; 804; 1056; 3679
DdeI	C!TNAG	7	869; 2854; 3156; 4037; 4486; 4609; 5018

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DinI	GGC!GCC	1	3375
DpnI	GA!TC	25	587; 1126; 1152; 1326; 1331; 1378; 2011; 2020; 2033; 3213; 3217; 3236; 3547; 3625; 3706; 3715; 3793; 4169; 4185; 4544; 4556; 4634; 4642; 4653; 4728
DpnII	!GATC	25	585; 1124; 1150; 1324; 1329; 1376; 2009; 2018; 2031; 3211; 3215; 3234; 3545; 3623; 3704; 3713; 3791; 4167; 4183; 4542; 4554; 4632; 4640; 4651; 4726
DraI	TTT!AAA	3	2076; 4518; 4537
DraII	RG!GNCCY	3	1389; 1683; 4472
DraIII	CACNNN!GTG	2	1260; 2490
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	4	266; 851; 1490; 4854
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	5	1618; 1762; 2445; 3401; 5190
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	2	1607; 1871
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	5	1618; 1762; 2445; 3401; 5190
EaeI	Y!GGCCR	11	1268; 1569; 1594; 1730; 1815; 1826; 1904; 3280; 3454; 3845; 3872
EagI	C!GGCCG	3	1594; 1815; 3280
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2841; 3718; 3928
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	2841; 3718; 3928
EciI	GGCGGANNNNNNNNNNNN!	4	2874; 3903; 5090; 5236
EciI	!NNNNNNNNNTCCGCC	4	496; 3045; 3066; 3087
Ecl136II	GAG!CTC	1	1338
EclXI	C!GGCCG	3	1594; 1815; 3280
Eco24I	GRGCY!C	4	1340; 2565; 3739; 4449
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	3	1132; 1231; 4363
Eco32I	GAT!ATC	2	1350; 1521
Eco47I	G!GWCC	5	1200; 1389; 1683; 3890; 4335
Eco47III	AGC!GCT	2	596; 1930
Eco52I	C!GGCCG	3	1594; 1815; 3280
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	1120; 3520; 3952
Eco57I	!NNNNNNNNNNNNNNNNCTTCAG	2	1443; 4750
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	869; 2854; 4486
Eco88I	C!YCGRG	4	1333; 1672; 1687; 1855
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	9	360; 611; 1361; 1823; 1874; 3103; 3196; 3806; 4211
Eco147I	AGG!CCT	2	1039; 3195
EcoHI	!CCSGG	9	834; 1182; 1607; 1649; 2004; 3376; 3536; 4149; 4913
EcoICRI	GAG!CTC	1	1338
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	5	1120; 1681; 3520; 3952; 4214
Eco57MI	!NNNNNNNNNNNNNNNNCTYCAG	4	928; 1443; 4157; 4750
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	3	1389; 1683; 4472
EcoRI	G!AATTC	1	1354
EcoRII	!CCWGG	17	88; 281; 785; 929; 944; 1073; 1571; 1724; 2908; 2963; 2980; 3759; 4338; 4441; 5131; 5144; 5265
EcoRV	GAT!ATC	2	1350; 1521
EcoT14I	C!CWWGG	9	360; 611; 1361; 1823; 1874; 3103; 3196; 3806; 4211
EcoT22I	ATGCA!T	3	2946; 3018; 5349
EcoT38I	GRGCY!C	4	1340; 2565; 3739; 4449
Eco53kI	GAG!CTC	1	1338
EgeI	GGC!GCC	1	3375
EheI	GGC!GCC	1	3375
ErhI	C!CWWGG	9	360; 611; 1361; 1823; 1874; 3103; 3196; 3806; 4211
EsaBC3I	TC!GA	19	753; 780; 1248; 1335; 1353; 1524; 1857; 1899; 2524; 3215; 3488; 3644; 3668; 3704; 3866; 4057; 4102; 4357; 5195
Esp3I	CGTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Esp3I	!NNNNNGAGACG	2	1042; 1894
FaeI	CATG!	30	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1365; 1445; 1632; 1765; 1788; 1827; 2804; 2944; 3016; 3107; 3248; 3593; 3779; 3810; 3836; 4192; 4576; 5296; 5347
Fail	YA!TR	72	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; 1363; 1443; 1453; 1487; 1511; 1630; 1763; 1786; 1825; 1974; 2036; 2046; 2112; 2157; 2362; 2790; 2802; 2933; 2942; 3005; 3014; 3038; 3105; 3129; 3246; 3310; 3591; 3616; 3777; 3808; 3834; 3906; 4122; 4190; 4268; 4320; 4481; 4498; 4500; 4502; 4574; 4852; 5041; 5157; 5230; 5294; 5345
FalI	AAGNNNNCTTNNNNNNNNNNNN!	3	879; 1461; 3714
FalI	!NNNNNNNNAAGNNNNCTT	3	847; 1429; 3682
FaqI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1573; 3525; 4057; 4166
FaqI	!NNNNNNNNNNNNNGTCCC	6	1669; 1691; 2890; 2962; 3026; 4321
FatI	!CATG	30	300; 360; 611; 638; 644; 656; 734; 800; 880; 1084; 1091; 1361; 1441; 1628; 1761; 1784; 1823; 2800; 2940; 3012; 3103; 3244; 3589; 3775; 3806; 3832; 4188; 4572; 5292; 5343
FauI	CCCGCNNNN!	11	93; 119; 286; 1068; 1170; 1789; 2696; 3051; 3072; 4268; 4400
FauI	!NNNNNGCGGG	6	1105; 2627; 3497; 4034; 4172; 4319
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2031
FblI	GT!MKAC	1	1190
FmuI	GGNC!C	17	86; 279; 763; 1006; 1098; 1119; 1203; 1392; 1686; 1782; 1981; 2484; 3893; 4338; 4384; 4442; 4475
Fnu4HI	GC!NGC	42	759; 810; 954; 1071; 1252; 1594; 1597; 1752; 1818; 1916; 1921; 1950; 1962; 1981; 2151; 2670; 2692; 2706; 3144; 3283; 3335; 3346; 3436; 3441; 3478; 3519; 3606; 3609; 3612; 3848; 3944; 3985; 3999; 4113; 4452; 4467; 4678; 4884; 4887; 4952; 5095; 5250
FokI	GGATGNNNNNNNN!	6	1543; 1822; 3241; 3698; 3723; 4177
FokI	!NNNNNNNNNNNNCATCC	7	681; 769; 826; 1654; 1708; 1822; 3047
FriOI	GRGCY!C	4	1340; 2565; 3739; 4449
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	3	1750; 1834; 3476
FspAI	RTGC!GCAY	1	1834
FspBI	C!TAG	8	592; 2022; 2223; 2641; 3197; 4212; 4546; 4799
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; 1372; 1395; 1411; 1443; 1489; 1505; 1585; 1600; 1617; 1663; 1684; 1699; 1721; 1738; 1759; 1780; 1794; 1811; 1831; 1852; 1867; 1881; 1920; 1953; 1994; 2008; 2026; 2057; 2096; 2110; 2251; 2346; 2370; 2393; 2416; 2434; 2456; 2477; 2496; 2515; 2544; 2565; 2579; 2605; 2693; 2719; 2768; 2809; 2827; 2866; 2882; 2920; 2977; 2992; 3049; 3069; 3083; 3100; 3114; 3151; 3166; 3209; 3292; 3359; 3390; 3410; 3425; 3470; 3484; 3550; 3564; 3583; 3599; 3640; 3660; 3707; 3757; 3773; 3793; 3818; 3838; 3861; 3888; 3906; 3932; 3972; 3998; 4022; 4078; 4092; 4120; 4163; 4184; 4219; 4263; 4351; 4375; 4397; 4417; 4433; 4454; 4468; 4487; 4571; 4591; 4619; 4634; 4668; 4710; 4737; 4752; 4797; 4821; 4835; 4857; 4883; 4903; 4927; 4953; 5001; 5020; 5039; 5065; 5100; 5145; 5175; 5189; 5240; 5254; 5279; 5295; 5316; 5345
FspEI	!NNNNNNNNNNNNNNNGG	149	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; 1348; 1369; 1393; 1418; 1450; 1498; 1517; 1542; 1561; 1594; 1624; 1645; 1665; 1711; 1762; 1792; 1810; 1861; 1888; 1919; 1951; 1990; 2045; 2145; 2214; 2322; 2371; 2393; 2421; 2457; 2502; 2531; 2567; 2586; 2614; 2634; 2697; 2720; 2828; 2860; 2878; 2907; 2950; 2979; 3090; 3119; 3162; 3183; 3211; 3244; 3264; 3289; 3316; 3341; 3363; 3391; 3417; 3438; 3489; 3510; 3528; 3576; 3612; 3668; 3693; 3717; 3746; 3769; 3793; 3819; 3841; 3860; 3885; 3925; 3961; 4026; 4111; 4135; 4164; 4198; 4219; 4239; 4284; 4311; 4330; 4363; 4415; 4446; 4473; 4525; 4623; 4694; 4739; 4800; 4865; 4899; 4925; 4943; 4979; 5049; 5072; 5094; 5118; 5151; 5199; 5234; 5252; 5309

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fsp4HI	GC!NGC	42	759; 810; 954; 1071; 1252; 1594; 1597; 1752; 1818; 1916; 1921; 1950; 1962; 1981; 2151; 2670; 2692; 2706; 3144; 3283; 3335; 3346; 3436; 3441; 3478; 3519; 3606; 3609; 3612; 3848; 3944; 3985; 3999; 4113; 4452; 4467; 4678; 4884; 4887; 4952; 5095; 5250
GdiII	C!GGCCR	4	1594; 1815; 1904; 3280
GdiII	Y!GGCCG	6	1594; 1815; 1826; 3280; 3845; 3872
GlaI	GC!GC	33	596; 1083; 1290; 1750; 1821; 1834; 1888; 1912; 1914; 1919; 1930; 1984; 1993; 2639; 2647; 2673; 2695; 2704; 2717; 2748; 3367; 3375; 3439; 3476; 3742; 4002; 4178; 4264; 4667; 4776; 4950; 5050; 5117
GluI	GC!NGC	42	759; 810; 954; 1071; 1252; 1594; 1597; 1752; 1818; 1916; 1921; 1950; 1962; 1981; 2151; 2670; 2692; 2706; 3144; 3283; 3335; 3346; 3436; 3441; 3478; 3519; 3606; 3609; 3612; 3848; 3944; 3985; 3999; 4113; 4452; 4467; 4678; 4884; 4887; 4952; 5095; 5250
GsaI	CCCAG!C	4	997; 2921; 2993; 4992
GsaI	GCTGG!G	2	1035; 3882
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	2	1681; 4214
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	928; 4157
HaeI	WGG!CCW	9	1039; 1270; 1571; 1732; 3195; 3456; 4818; 5270; 5281
HaeII	RGCGC!Y	7	598; 1292; 1932; 2641; 2649; 3377; 5052
HaeIII	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1571; 1596; 1732; 1780; 1817; 1828; 1906; 1980; 2340; 2482; 3137; 3143; 3152; 3195; 3282; 3456; 3847; 3874; 4383; 4440; 4473; 4818; 5252; 5270; 5281
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2049; 3570
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2015; 3536
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2048; 3569
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2017; 3538
HapII	C!CGG	25	601; 835; 1184; 1322; 1398; 1609; 1651; 2005; 2016; 2592; 3279; 3356; 3378; 3406; 3537; 3627; 3694; 3875; 4150; 4158; 4250; 4724; 4914; 4940; 5087
HgaI	GACGCNNNNN!	3	526; 4084; 4163
HgaI	!NNNNNNNNNNNGCGTC	4	1176; 2707; 4602; 5180
HhaI	GCG!C	33	597; 1084; 1291; 1751; 1822; 1835; 1889; 1913; 1915; 1920; 1931; 1985; 1994; 2640; 2648; 2674; 2696; 2705; 2718; 2749; 3368; 3376; 3440; 3477; 3743; 4003; 4179; 4265; 4668; 4777; 4951; 5051; 5118
Hin1I	GR!CGYC	9	122; 175; 258; 444; 1187; 1619; 3374; 4076; 4155
Hin1II	CATG!	30	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1365; 1445; 1632; 1765; 1788; 1827; 2804; 2944; 3016; 3107; 3248; 3593; 3779; 3810; 3836; 4192; 4576; 5296; 5347
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1348; 2048; 3569
Hin4I	!NNNNNNNNGABNNNNNRTC	3	2016; 3537; 3567
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	2048; 3569; 3599
Hin4I	!NNNNNNNNGAYNNNNNVTC	3	1316; 2016; 3537
Hin6I	G!CGC	33	595; 1082; 1289; 1749; 1820; 1833; 1887; 1911; 1913; 1918; 1929; 1983; 1992; 2638; 2646; 2672; 2694; 2703; 2716; 2747; 3366; 3374; 3438; 3475; 3741; 4001; 4177; 4263; 4666; 4775; 4949; 5049; 5116
HinP1I	G!CGC	33	595; 1082; 1289; 1749; 1820; 1833; 1887; 1911; 1913; 1918; 1929; 1983; 1992; 2638; 2646; 2672; 2694; 2703; 2716; 2747; 3366; 3374; 3438; 3475; 3741; 4001; 4177; 4263; 4666; 4775; 4949; 5049; 5116
HincII	GTY!RAC	1	2137
HindII	GTY!RAC	1	2137
HindIII	A!AGCTT	1	1342
HinfI	G!ANTC	15	410; 740; 890; 1217; 1654; 2417; 2439; 2849; 3859; 3993; 4045; 4103; 4140; 4922; 5318
HpaI	GTT!AAC	1	2137
HpaII	C!CGG	25	601; 835; 1184; 1322; 1398; 1609; 1651; 2005; 2016; 2592; 3279; 3356; 3378; 3406; 3537; 3627; 3694; 3875; 4150; 4158; 4250; 4724; 4914; 4940; 5087
HphI	GGTGANNNNNNNN!	8	376; 627; 996; 1306; 1432; 1704; 4445; 4561
HphI	!NNNNNNNTCACC	3	885; 2491; 3552
Hpy8I	GTN!NAC	14	201; 539; 577; 672; 692; 987; 1191; 1200; 1644; 2137; 2421; 2438; 2493; 4980

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hpy99I	CGWCG!	13	754; 1234; 1249; 1621; 1759; 1992; 3464; 3492; 3786; 3801; 4078; 4463; 5196
Hpy166II	GTN!NAC	14	201; 539; 577; 672; 692; 987; 1191; 1200; 1644; 2137; 2421; 2438; 2493; 4980
Hpy188I	TCN!GA	14	585; 699; 1329; 1383; 2548; 3157; 3341; 3685; 4038; 4139; 4618; 4752; 5105; 5183
Hpy188III	TC!NNGA	24	1176; 1322; 1333; 1899; 2022; 2801; 2853; 3166; 3219; 3392; 3708; 3717; 3800; 3856; 3900; 3990; 4023; 4092; 4573; 4647; 4730; 4828; 4926; 5060
HpyAV	CCTTCNNNNNN!	6	780; 828; 873; 4019; 4126; 4805
HpyAV	!NNNNNGAAGG	10	700; 1072; 1873; 2607; 3502; 4231; 4247; 4430; 4747; 5057
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 669; 1497; 2465; 3754; 3870; 3978; 4301; 4792; 5262; 5333
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 1619; 2434; 2446; 2489; 2599; 3490; 3677; 4458; 4591
HpyCH4V	TG!CA	22	692; 1014; 1130; 1923; 1952; 1964; 2123; 2150; 2218; 2935; 2944; 3007; 3016; 3131; 3207; 3266; 3425; 3600; 3614; 4684; 4980; 5347
HpyF3I	C!TNAG	7	869; 2854; 3156; 4037; 4486; 4609; 5018
HpyF10VI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 648; 1079; 1912; 1926; 1958; 1977; 1989; 2601; 2631; 2658; 2700; 2941; 3013; 3064; 3143; 3365; 3449; 3472; 3611; 3734; 3817; 4084; 4271; 4475; 4674; 5246
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 1187; 1619; 3374; 4076; 4155
Hsp92II	CATG!	30	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1365; 1445; 1632; 1765; 1788; 1827; 2804; 2944; 3016; 3107; 3248; 3593; 3779; 3810; 3836; 4192; 4576; 5296; 5347
HspAI	G!CGC	33	595; 1082; 1289; 1749; 1820; 1833; 1887; 1911; 1913; 1918; 1929; 1983; 1992; 2638; 2646; 2672; 2694; 2703; 2716; 2747; 3366; 3374; 3438; 3475; 3741; 4001; 4177; 4263; 4666; 4775; 4949; 5049; 5116
KasI	G!GCGCC	1	3373
KfII	GG!GWCCC	1	1683
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1321
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	2031
KspAI	GTT!AAC	1	2137
Kzo9I	!GATC	25	585; 1124; 1150; 1324; 1329; 1376; 2009; 2018; 2031; 3211; 3215; 3234; 3545; 3623; 3704; 3713; 3791; 4167; 4183; 4542; 4554; 4632; 4640; 4651; 4726
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3718; 3928
LpnI	RGCIICY	7	596; 1290; 1930; 2639; 2647; 3375; 5050
LpnPI	CCDGNNNNNNNNN!	72	102; 295; 614; 742; 799; 848; 881; 943; 958; 1007; 1087; 1111; 1135; 1197; 1284; 1335; 1405; 1443; 1490; 1585; 1603; 1622; 1664; 1738; 1759; 1954; 2008; 2029; 2111; 2416; 2605; 2828; 2866; 2882; 2922; 2977; 2994; 3094; 3179; 3292; 3369; 3391; 3414; 3550; 3564; 3583; 3640; 3707; 3757; 3773; 3830; 3888; 4097; 4163; 4187; 4263; 4352; 4455; 4488; 4719; 4737; 4883; 4903; 4927; 4953; 5002; 5100; 5145; 5175; 5254; 5279; 5316
LpnPI	!NNNNNNNNNNNNNCHGG	62	75; 268; 552; 586; 772; 820; 916; 1017; 1060; 1169; 1195; 1268; 1307; 1383; 1525; 1553; 1594; 1636; 1711; 1762; 1990; 2457; 2577; 2634; 2697; 2895; 2907; 2967; 2979; 3211; 3256; 3299; 3341; 3363; 3391; 3438; 3500; 3522; 3612; 3679; 3702; 3746; 3841; 3860; 3885; 4034; 4135; 4178; 4235; 4325; 4428; 4455; 4473; 4709; 4746; 4899; 4925; 5065; 5083; 5118; 5199; 5252
Lsp1109I	GCAGCNNNNNNNN!	9	821; 1263; 1763; 2162; 3447; 3489; 4010; 4463; 4963
Lsp1109I	!NNNNNNNNNNNNNGCTGC	9	940; 1907; 1936; 2656; 3321; 3505; 3598; 4664; 4870
LweI	GCATCNNNNN!	9	848; 1844; 1961; 2190; 2953; 3025; 3673; 3737; 4012
LweI	!NNNNNNNNNNGATGC	7	357; 1001; 1169; 3332; 3587; 3803; 5195
MabI	A!CCWGGT	1	2963
MaeI	C!TAG	8	592; 2022; 2223; 2641; 3197; 4212; 4546; 4799
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 1619; 2434; 2446; 2489; 2599; 3490; 3677; 4458; 4591
MaeIII	!GTNAC	14	61; 148; 497; 891; 1087; 2162; 2663; 2675; 3494; 3800; 4490; 4756; 4872; 4935

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MaiI	GA!TC	25	587; 1126; 1152; 1326; 1331; 1378; 2011; 2020; 2033; 3213; 3217; 3236; 3547; 3625; 3706; 3715; 3793; 4169; 4185; 4544; 4556; 4634; 4642; 4653; 4728
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	3	1599; 2798; 3987
MbiI	GAG!CGG	2	2634; 4041
MboI	!GATC	25	585; 1124; 1150; 1324; 1329; 1376; 2009; 2018; 2031; 3211; 3215; 3234; 3545; 3623; 3704; 3713; 3791; 4167; 4183; 4542; 4554; 4632; 4640; 4651; 4726
MboII	GAAGANNNNNNNNN!	8	916; 1029; 1413; 2630; 2858; 3735; 3945; 4564
MboII	!NNNNNNNNNTCTTC	6	1449; 1887; 4025; 4192; 4392; 4635
McaTI	GCGC!GC	1	1914
MfeI	C!AATTG	1	2124
MflI	R!GATCY	12	585; 1150; 1329; 2009; 2018; 3545; 3791; 4183; 4542; 4554; 4640; 4651
MhlI	GDGCH!C	15	667; 694; 727; 1340; 1493; 1718; 1864; 2565; 3320; 3413; 3487; 3677; 3739; 4449; 4982
MlsI	TGG!CCA	4	1270; 1571; 1732; 3456
MluI	A!CGCGT	1	2260
MluNI	TGG!CCA	4	1270; 1571; 1732; 3456
MlyI	GAGTCNNNNNN!	3	899; 2426; 2858
MlyI	!NNNNNGACTC	5	404; 1648; 2433; 4039; 4916
Mly113I	GG!CGCC	1	3374
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	2467
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4899; 5083
MnII	CCTCNNNNNNNN!	14	773; 842; 952; 967; 1050; 1183; 1864; 2093; 3157; 3975; 4181; 4495; 4865; 5189
MnII	!NNNNNNNGAGG	31	541; 654; 693; 714; 747; 864; 973; 1029; 1218; 1251; 1294; 1306; 1377; 1473; 1518; 1569; 1683; 1884; 1969; 2053; 2518; 2849; 3127; 3170; 3185; 3225; 3289; 3425; 3782; 4212; 5115
Mph1103I	ATGCA!T	3	2946; 3018; 5349
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1321
MroNI	G!CCGGC	3	2591; 3874; 4157
MroXI	GAANN!NNTTC	2	1699; 1799
MscI	TGG!CCA	4	1270; 1571; 1732; 3456
MseI	T!TAA	17	7; 629; 854; 2075; 2136; 2257; 2278; 2289; 2301; 2312; 2329; 2427; 2698; 4517; 4531; 4536; 4588
MslI	CAYNN!NNRTG	7	365; 613; 643; 1627; 1726; 1828; 3811
MspI	C!CGG	25	601; 835; 1184; 1322; 1398; 1609; 1651; 2005; 2016; 2592; 3279; 3356; 3378; 3406; 3537; 3627; 3694; 3875; 4150; 4158; 4250; 4724; 4914; 4940; 5087
Msp20I	TGG!CCA	4	1270; 1571; 1732; 3456
MspA1I	CMG!CKG	6	1063; 1567; 2872; 3480; 4709; 4954
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	274	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; 1347; 1365; 1381; 1394; 1410; 1442; 1458; 1476; 1489; 1504; 1529; 1552; 1575; 1602; 1616; 1639; 1662; 1684; 1699; 1720; 1737; 1758; 1774; 1789; 1804; 1818; 1831; 1846; 1867; 1880; 1896; 1911; 1924; 1952; 1977; 1994; 2007; 2028; 2042; 2057; 2081; 2098; 2111; 2152; 2166; 2179; 2197; 2235; 2250; 2268; 2309; 2333; 2353; 2371; 2392; 2415; 2447; 2462; 2484; 2502; 2515; 2536; 2553; 2566; 2579; 2595; 2608; 2638; 2653; 2678; 2696; 2709; 2724; 2748; 2762; 2786; 2811; 2827; 2865; 2881; 2920; 2934; 2948; 2976; 2992; 3006; 3020; 3049; 3062; 3083; 3092; 3114; 3144; 3160; 3178; 3208; 3231; 3255; 3279; 3298; 3326; 3352; 3368; 3381; 3404; 3418; 3438; 3451; 3465; 3484; 3498; 3511; 3527; 3542; 3555; 3571; 3586; 3602; 3627; 3646; 3662; 3675; 3688; 3706; 3720; 3734; 3750; 3772; 3788; 3807; 3829; 3845; 3868; 3887; 3901; 3917; 3931; 3951; 3967; 3980; 4002; 4035; 4049; 4069; 4082; 4096; 4150; 4163; 4186; 4199; 4218; 4235; 4262; 4298; 4331; 4350; 4375; 4396; 4423; 4436; 4453; 4467; 4482; 4498; 4558; 4583; 4599; 4621; 4634; 4648; 4679; 4693; 4718; 4736; 4751; 4764; 4783; 4796; 4811; 4840; 4859; 4877; 4902; 4917; 4936; 4952; 4971; 4989; 5005; 5019; 5038; 5065; 5088; 5110; 5129; 5144; 5157; 5174; 5194; 5221; 5234; 5253; 5278; 5301; 5315; 5328; 5345
MspJI	!NNNNNNNNNNNNYNGG	228	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; 1348; 1367; 1384; 1404; 1428; 1446; 1463; 1487; 1510; 1535; 1554; 1576; 1594; 1615; 1636; 1658; 1675; 1699; 1732; 1752; 1771; 1788; 1805; 1826; 1843; 1861; 1883; 1903; 1927; 1951; 1968; 1987; 2008; 2026; 2055; 2084; 2126; 2209; 2247; 2271; 2294; 2323; 2367; 2389; 2421; 2457; 2474; 2495; 2532; 2552; 2569; 2586; 2621; 2639; 2657; 2674; 2698; 2720; 2747; 2775; 2801; 2839; 2860; 2877; 2895; 2918; 2939; 2967; 2990; 3011; 3029; 3050; 3067; 3090; 3114; 3134; 3152; 3174; 3205; 3227; 3253; 3272; 3289; 3317; 3336; 3355; 3373; 3391; 3412; 3434; 3458; 3491; 3511; 3529; 3550; 3576; 3603; 3620; 3637; 3654; 3680; 3702; 3724; 3742; 3762; 3781; 3803; 3841; 3861; 3885; 3905; 3925; 3952; 3976; 4009; 4028; 4056; 4078; 4107; 4135; 4160; 4179; 4198; 4219; 4236; 4253; 4284; 4311; 4331; 4354; 4374; 4411; 4428; 4447; 4473; 4493; 4532; 4559; 4578; 4596; 4633; 4651; 4692; 4710; 4736; 4753; 4785; 4814; 4842; 4863; 4886; 4905; 4926; 4944; 4961; 4979; 5005; 5026; 5046; 5066; 5084; 5105; 5131; 5148; 5167; 5186; 5215; 5234; 5252; 5271; 5289; 5307; 5330
MspR9I	CC!NGG	26	90; 283; 787; 836; 931; 946; 1075; 1184; 1573; 1609; 1651; 1726; 2006; 2910; 2965; 2982; 3378; 3538; 3761; 4151; 4340; 4443; 4915; 5133; 5146; 5267
MssI	GTTT!AAC	0	
MunI	CA!AATTG	1	2124
MvaI	CC!WGG	17	90; 283; 787; 931; 946; 1075; 1573; 1726; 2910; 2965; 2982; 3761; 4340; 4443; 5133; 5146; 5267
Mva1269I	GAATGCN!	1	2125
Mva1269I	G!CATTC	1	2218
MvnI	CG!CG	22	60; 1820; 1889; 1911; 1913; 1918; 1983; 1992; 2262; 2298; 2674; 2694; 2718; 2749; 3440; 3741; 4179; 4263; 4326; 4395; 4668; 5249
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 648; 1079; 1912; 1926; 1958; 1977; 1989; 2601; 2631; 2658; 2700; 2941; 3013; 3064; 3143; 3365; 3449; 3472; 3611; 3734; 3817; 4084; 4271; 4475; 4674; 5246
NaeI	GCC!GGC	3	2593; 3876; 4159
NarI	GG!CGCC	1	3374
NciI	CC!SGG	9	836; 1184; 1609; 1651; 2006; 3378; 3538; 4151; 4915
NcoI	C!CATGG	6	360; 611; 1361; 1823; 3103; 3806
NdeI	CA!TATG	1	234

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeII	!GATC	25	585; 1124; 1150; 1324; 1329; 1376; 2009; 2018; 2031; 3211; 3215; 3234; 3545; 3623; 3704; 3713; 3791; 4167; 4183; 4542; 4554; 4632; 4640; 4651; 4726
NgoAVIII	GACNNNNNTGANNNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	731
NgoAVIII	TCANNNNGTCNNNNNNNNNNNNNN!	1	767
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	2591; 3874; 4157
NheI	G!CTAGC	1	591
NlaIII	CATG!	30	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1365; 1445; 1632; 1765; 1788; 1827; 2804; 2944; 3016; 3107; 3248; 3593; 3779; 3810; 3836; 4192; 4576; 5296; 5347
NlaIV	GGN!NCC	24	467; 666; 726; 1117; 1320; 1428; 1684; 1685; 1796; 1938; 2011; 2529; 2550; 2562; 2753; 2914; 2986; 3375; 3410; 4258; 4337; 4382; 5225; 5264
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2206; 2521; 4113
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	5	347; 991; 1277; 1403; 5185
Nli3877I	CYCGR!G	4	1337; 1676; 1691; 1859
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3163; 3599
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1007; 3128
NmeDI	RCCGGYNNNNNNNN!	5	612; 2603; 3705; 3886; 4169
NmeDI	!NNNNNNNNNNNNRCCGGY	5	587; 2578; 3680; 3861; 4144
NmuCI	!GTSAC	5	891; 1087; 2663; 3494; 3800
NotI	GC!GGCCGC	1	1594
NruI	TCG!CGA	0	
NsbI	TGC!GCA	3	1750; 1834; 3476
NsiI	ATGCA!T	3	2946; 3018; 5349
NspI	RCATG!Y	8	642; 1088; 1445; 1765; 2944; 3016; 3779; 5296
NspV	TT!CGAA	1	4056
OliI	CACNN!NNGTG	1	613
PabI	GTA!C	10	220; 245; 300; 333; 384; 541; 656; 806; 1058; 3681
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2944; 3016; 3779
PaeR7I	C!TCGAG	2	1333; 1855
PagI	T!CATGA	2	2800; 4572
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4339; 4442
PauI	G!CGCGC	1	1911
PceI	AGG!CCT	2	1039; 3195
PciI	A!CATGT	1	5292
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3718; 3928
PcsI	WCGNNNN!NNNCGW	8	1253; 1853; 3668; 3745; 3988; 4062; 4455; 4973
PctI	GAATGCN!	1	2125
PctI	G!CATTC	1	2218
PdiI	GCC!GGC	3	2593; 3876; 4159
PdmI	GAANN!NNTTC	2	1699; 1799
PfeI	G!AWTC	7	740; 1217; 3859; 3993; 4103; 4140; 5318
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3492
PfIMI	CCANNNN!NTGG	1	1209
PfoI	T!CCNGGA	2	944; 4149
PhoI	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1571; 1596; 1732; 1780; 1817; 1828; 1906; 1980; 2340; 2482; 3137; 3143; 3152; 3195; 3282; 3456; 3847; 3874; 4383; 4440; 4473; 4818; 5252; 5270; 5281
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3755
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	3320; 3575
PleI	GAGTCNNNN!	3	898; 2425; 2857
PleI	!NNNNNGACTC	5	404; 1648; 2433; 4039; 4916
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	2456

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpiI	!NNNNNNNGAGNNNNNGTTC	1	4586
PpiI	GAGNNNNGTTCNNNNNNNNNNNN!	1	4618
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2424
PpsI	GAGTCNNNN!	3	898; 2425; 2857
PpsI	!NNNNNGACTC	5	404; 1648; 2433; 4039; 4916
Ppu10I	A!TGCAT	3	2942; 3014; 5345
Ppu21I	YAC!GTR	3	340; 2490; 3678
PpuMI	RG!GWCCY	2	1389; 1683
PscI	A!CATGT	1	5292
PshAI	GACNN!NNGTC	1	1243
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2157; 2362
Psp03I	GGWC!C	5	1203; 1392; 1686; 3893; 4338
Psp5II	RG!GWCCY	2	1389; 1683
Psp6I	!CCWGG	17	88; 281; 785; 929; 944; 1073; 1571; 1724; 2908; 2963; 2980; 3759; 4338; 4441; 5131; 5144; 5265
Psp1406I	AA!CGTT	0	
Psp124BI	GAGTC!C	1	1340
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	17	88; 281; 785; 929; 944; 1073; 1571; 1724; 2908; 2963; 2980; 3759; 4338; 4441; 5131; 5144; 5265
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	24	467; 666; 726; 1117; 1320; 1428; 1684; 1685; 1796; 1938; 2011; 2529; 2550; 2562; 2753; 2914; 2986; 3375; 3410; 4258; 4337; 4382; 5225; 5264
PspOMI	G!GGCCC	0	
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	3	125; 3104; 4103
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3506
PspPI	G!GNCC	17	83; 276; 760; 1003; 1095; 1116; 1200; 1389; 1683; 1779; 1978; 2481; 3890; 4335; 4381; 4439; 4472
PspPPI	RG!GWCCY	2	1389; 1683
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	2927; 2999; 4505
PspPRI	!NNNNNNNNNNNNNCTGRGG	3	855; 2840; 4035
PspXI	VC!TCGAGB	1	1855
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	3	1392; 1686; 4475
PstI	CTGCA!G	1	1925
PstNI	CAGNN!CTG	3	1374; 4475; 4883
PsuI	R!GATCY	12	585; 1150; 1329; 2009; 2018; 3545; 3791; 4183; 4542; 4554; 4640; 4651
PsyI	GACN!NNGTC	1	3492
PteI	G!CGCGC	1	1911
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1567; 2872; 3480
RcaI	T!CATGA	2	2800; 4572
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3889
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	2	1509; 2103
RleAI	!NNNNNNNNNTGTGGG	1	1546
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	1	1665
RruI	TCG!CGA	0	
RsaI	GT!AC	10	219; 244; 299; 332; 383; 540; 655; 805; 1057; 3680
RsaNI	G!TAC	10	218; 243; 298; 331; 382; 539; 654; 804; 1056; 3679
RseI	CAYNN!NNRTG	7	365; 613; 643; 1627; 1726; 1828; 3811
RsrII	CG!GWCCG	1	3890
Rsr2I	CG!GWCCG	1	3890

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SacI	GAGCT!C	1	1340
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	3718; 3928
SaqAI	T!TAA	17	7; 629; 854; 2075; 2136; 2257; 2278; 2289; 2301; 2312; 2329; 2427; 2698; 4517; 4531; 4536; 4588
SatI	GC!NGC	42	759; 810; 954; 1071; 1252; 1594; 1597; 1752; 1818; 1916; 1921; 1950; 1962; 1981; 2151; 2670; 2692; 2706; 3144; 3283; 3335; 3346; 3436; 3441; 3478; 3519; 3606; 3609; 3612; 3848; 3944; 3985; 3999; 4113; 4452; 4467; 4678; 4884; 4887; 4952; 5095; 5250
Sau96I	G!GNCC	17	83; 276; 760; 1003; 1095; 1116; 1200; 1389; 1683; 1779; 1978; 2481; 3890; 4335; 4381; 4439; 4472
Sau3AI	!GATC	25	585; 1124; 1150; 1324; 1329; 1376; 2009; 2018; 2031; 3211; 3215; 3234; 3545; 3623; 3704; 3713; 3791; 4167; 4183; 4542; 4554; 4632; 4640; 4651; 4726
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	899; 2426; 2858
SchI	!NNNNNGACTC	5	404; 1648; 2433; 4039; 4916
SciI	CTC!GAG	2	1335; 1857
ScrFI	CC!NGG	26	90; 283; 787; 836; 931; 946; 1075; 1184; 1573; 1609; 1651; 1726; 2006; 2910; 2965; 2982; 3378; 3538; 3761; 4151; 4340; 4443; 4915; 5133; 5146; 5267
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	8	1041; 1395; 1599; 1950; 2952; 3024; 3193; 5135
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	1681; 3529; 4014
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	15	667; 694; 727; 1340; 1493; 1718; 1864; 2565; 3320; 3413; 3487; 3677; 3739; 4449; 4982
SelI	!CGCG	22	58; 1818; 1887; 1909; 1911; 1916; 1981; 1990; 2260; 2296; 2672; 2692; 2716; 2747; 3438; 3739; 4177; 4261; 4324; 4393; 4666; 5247
SetI	ASST!	82	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; 1340; 1346; 1376; 1394; 1484; 1529; 1544; 1569; 1622; 1694; 1748; 1778; 1856; 1895; 1970; 2064; 2085; 2094; 2106; 2155; 2322; 2437; 2449; 2492; 2529; 2579; 2602; 2726; 2874; 2969; 3162; 3275; 3403; 3482; 3493; 3565; 3636; 3680; 3940; 4086; 4130; 4461; 4492; 4551; 4594; 4737; 4758; 4857; 4994; 5009; 5028; 5040; 5084; 5130; 5181
SexAI	A!CCWGGT	1	2963
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	9	848; 1844; 1961; 2190; 2953; 3025; 3673; 3737; 4012
SfaNI	!NNNNNNNNNGATGC	7	357; 1001; 1169; 3332; 3587; 3803; 5195
SfcI	C!TRYAG	4	1921; 2709; 4836; 5027
SfiI	GGCCNNNN!NGGCC	1	3149
SfoI	GGC!GCC	1	3375
Sfr274I	C!TCGAG	2	1333; 1855
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	1	4056

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	221	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; 1347; 1374; 1395; 1410; 1442; 1458; 1476; 1489; 1536; 1552; 1580; 1602; 1620; 1641; 1662; 1684; 1699; 1737; 1758; 1774; 1789; 1804; 1818; 1831; 1852; 1867; 1881; 1896; 1911; 1924; 1953; 1977; 1994; 2007; 2028; 2081; 2110; 2152; 2235; 2273; 2309; 2393; 2415; 2447; 2484; 2502; 2521; 2536; 2578; 2595; 2612; 2647; 2661; 2678; 2700; 2724; 2748; 2813; 2827; 2865; 2881; 2921; 2934; 2953; 2976; 2993; 3006; 3025; 3055; 3076; 3093; 3116; 3151; 3178; 3209; 3231; 3257; 3279; 3298; 3326; 3362; 3381; 3404; 3418; 3438; 3451; 3465; 3484; 3498; 3517; 3549; 3563; 3576; 3602; 3633; 3646; 3663; 3680; 3694; 3711; 3729; 3744; 3772; 3788; 3807; 3829; 3845; 3868; 3887; 3912; 3931; 3951; 3978; 4002; 4035; 4054; 4082; 4096; 4162; 4186; 4201; 4224; 4245; 4262; 4310; 4337; 4351; 4380; 4404; 4437; 4454; 4474; 4487; 4500; 4558; 4585; 4604; 4634; 4659; 4679; 4693; 4718; 4736; 4773; 4811; 4840; 4868; 4882; 4902; 4917; 4938; 4952; 4971; 4989; 5005; 5045; 5065; 5092; 5110; 5131; 5144; 5157; 5174; 5198; 5221; 5253; 5278; 5305; 5327
SgeI	!NNNNNNNNNNNNCNG	192	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; 1327; 1348; 1369; 1394; 1416; 1450; 1510; 1554; 1576; 1594; 1615; 1636; 1658; 1675; 1711; 1732; 1763; 1784; 1805; 1826; 1843; 1861; 1885; 1903; 1927; 1951; 1968; 1987; 2008; 2055; 2084; 2126; 2209; 2247; 2283; 2367; 2389; 2421; 2458; 2476; 2495; 2552; 2569; 2586; 2621; 2639; 2659; 2679; 2698; 2722; 2787; 2839; 2895; 2927; 2950; 2967; 2999; 3029; 3050; 3067; 3090; 3125; 3152; 3183; 3205; 3231; 3253; 3272; 3300; 3336; 3355; 3378; 3399; 3417; 3434; 3458; 3491; 3523; 3550; 3576; 3607; 3637; 3654; 3680; 3703; 3724; 3746; 3766; 3786; 3803; 3842; 3861; 3886; 3905; 3925; 3952; 3976; 4009; 4028; 4056; 4078; 4136; 4160; 4179; 4198; 4219; 4236; 4284; 4311; 4331; 4354; 4378; 4411; 4428; 4448; 4474; 4532; 4559; 4578; 4608; 4633; 4653; 4692; 4710; 4747; 4785; 4814; 4842; 4863; 4891; 4912; 4945; 4963; 5019; 5039; 5066; 5084; 5105; 5131; 5148; 5172; 5195; 5227; 5252; 5279; 5301; 5330
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	5	27; 1683; 2521; 4308; 5101
SimI	!GACCC	4	106; 3802; 4370; 4618
SinI	G!GWCC	5	1200; 1389; 1683; 3890; 4335
SlaI	C!TCGAG	2	1333; 1855
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	7	365; 613; 643; 1627; 1726; 1828; 3811
SmiI	C!TYRAG	9	1135; 1174; 1333; 1339; 1855; 3765; 4647; 4924; 5186
SmoI	C!TYRAG	9	1135; 1174; 1333; 1339; 1855; 3765; 4647; 4924; 5186
SmuI	CCCGCNNNN!	11	93; 119; 286; 1068; 1170; 1789; 2696; 3051; 3072; 4268; 4400
SmuI	!NNNNNNGCGGG	6	1105; 2627; 3497; 4034; 4172; 4319
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2944; 3016; 3779
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 1354; 2124; 2188; 2266; 2292; 2303; 2950; 3022; 3114; 4532
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	1	1389
SseBI	AGG!CCT	2	1039; 3195
SsiI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1587; 1597; 1767; 1782; 1818; 1916; 1981; 2689; 2692; 2706; 2796; 3044; 3056; 3065; 3077; 3087; 3098; 3144; 3283; 3346; 3848; 3893; 3959; 3985; 4110; 4113; 4261; 4393; 4700; 4844; 5340

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	G!CGG	27	370; 403; 528; 758; 1070; 1112; 1593; 2634; 2661; 2749; 2859; 3440; 3504; 3605; 3608; 3888; 3943; 4041; 4179; 4326; 4466; 4709; 4954; 5075; 5094; 5221; 5249
SspI	AAT!ATT	2	2282; 2835
SspDI	G!GCGCC	1	3373
SspD5I	GGTGANNNNNNNN!	8	376; 627; 996; 1306; 1432; 1704; 4445; 4561
SspD5I	!NNNNNNNNNTCACC	3	884; 2490; 3551
SstI	GAGCT!C	1	1340
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	929
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	1	1875
Sth132I	CCCGNNNN!	26	92; 118; 285; 851; 1067; 1169; 1190; 1615; 1657; 1679; 1694; 1788; 1805; 1993; 2573; 2695; 3050; 3071; 3384; 3787; 3926; 3997; 4267; 4399; 4629; 5067
Sth132I	!NNNNNNNNCCGGG	22	15; 407; 470; 827; 900; 1104; 1997; 2574; 2626; 2727; 3454; 3496; 3529; 4033; 4142; 4171; 4318; 4422; 4453; 4906; 4950; 5158
Sth302II	CC!GG	25	602; 836; 1185; 1323; 1399; 1610; 1652; 2006; 2017; 2593; 3280; 3357; 3379; 3407; 3538; 3628; 3695; 3876; 4151; 4159; 4251; 4725; 4915; 4941; 5088
StrI	C!TCGAG	2	1333; 1855
StsI	GGATGNNNNNNNNNN!	6	1544; 1823; 3242; 3699; 3724; 4178
StsI	!NNNNNNNNNNNNNNNNNNCATCC	7	680; 768; 825; 1653; 1707; 1821; 3046
StuI	AGG!CCT	2	1039; 3195
StyI	C!CWWGG	9	360; 611; 1361; 1823; 1874; 3103; 3196; 3806; 4211
StyD4I	!CCNGG	26	88; 281; 785; 834; 929; 944; 1073; 1182; 1571; 1607; 1649; 1724; 2004; 2908; 2963; 2980; 3376; 3536; 3759; 4149; 4338; 4441; 4913; 5131; 5144; 5265
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 669; 1497; 2465; 3754; 3870; 3978; 4301; 4792; 5262; 5333
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 971; 1199; 1247; 1622; 2437; 2449; 2492; 2602; 3493; 3680; 4461; 4594
TaqI	T!CGA	19	752; 779; 1247; 1334; 1352; 1523; 1856; 1898; 2523; 3214; 3487; 3643; 3667; 3703; 3865; 4056; 4101; 4356; 5194
TaqII	GACCGANNNNNNNNNNN!	3	2394; 3411; 4079
TaqII	!NNNNNNNNNTCGGTC	1	4323
TaqII	CACCCANNNNNNNNNNN!	1	742
TaqII	!NNNNNNNNNTGGGTG	3	172; 3278; 3870
TasI	!AATT	11	18; 1354; 2124; 2188; 2266; 2292; 2303; 2950; 3022; 3114; 4532
TatI	W!GTACW	5	217; 297; 330; 381; 653
TauI	GCSG!C	22	761; 1073; 1596; 1599; 1820; 1918; 1983; 2694; 2708; 3146; 3285; 3348; 3443; 3608; 3611; 3850; 3946; 3987; 4115; 4469; 5097; 5252
TfiI	G!AWTC	7	740; 1217; 3859; 3993; 4103; 4140; 5318
TliI	C!TCGAG	2	1333; 1855
TruII	T!TAA	17	7; 629; 854; 2075; 2136; 2257; 2278; 2289; 2301; 2312; 2329; 2427; 2698; 4517; 4531; 4536; 4588
Tru9I	T!TAA	17	7; 629; 854; 2075; 2136; 2257; 2278; 2289; 2301; 2312; 2329; 2427; 2698; 4517; 4531; 4536; 4588
TscAI	CASTGNN!	6	1502; 2220; 3503; 4613; 4884; 4897
TseI	G!CWGC	20	809; 953; 1251; 1751; 1920; 1949; 1961; 2150; 2669; 3334; 3435; 3477; 3518; 3611; 3998; 4451; 4677; 4883; 4886; 4951
TsoI	TARCCANNNNNNNNNNN!	2	2346; 2693
TsoI	!NNNNNNNNNTGGYTA	3	778; 2151; 3903
Tsp45I	!GTSAC	5	891; 1087; 2663; 3494; 3800
Tsp509I	!AATT	11	18; 1354; 2124; 2188; 2266; 2292; 2303; 2950; 3022; 3114; 4532
TspDTI	ATGAANNNNNNNNNNN!	5	661; 1801; 2132; 3433; 4137
TspDTI	!NNNNNNNNNTTCAT	6	26; 789; 810; 3851; 4307; 4514
TspEI	!AATT	11	18; 1354; 2124; 2188; 2266; 2292; 2303; 2950; 3022; 3114; 4532
TspGWI	ACGGANNNNNNNNNNN!	2	1822; 4249
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	6	1502; 2220; 3503; 4613; 4884; 4897

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TstI	CACNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3492
Tth111II	CAARCANNNNNNNNNN!	2	841; 4701
Tth111II	!NNNNNNNNNTGYTTG	5	1434; 1489; 3809; 4669; 4708
UnbI	!GGNCC	17	82; 275; 759; 1002; 1094; 1115; 1199; 1388; 1682; 1778; 1977; 2480; 3889; 4334; 4380; 4438; 4471
Van91I	CCANNNN!NTGG	1	1209
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	690; 4978
VpaK11AI	!GGWCC	5	1199; 1388; 1682; 3889; 4334
VpaK11BI	G!GWCC	5	1200; 1389; 1683; 3890; 4335
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	1354; 2188; 2292; 2303
XbaI	T!CTAGA	1	2021
XceI	RCATG!Y	8	642; 1088; 1445; 1765; 2944; 3016; 3779; 5296
XcmI	CCANNNN!NNNNTGG	1	1725
XhoI	C!TCGAG	2	1333; 1855
XhoII	R!GATCY	12	585; 1150; 1329; 2009; 2018; 3545; 3791; 4183; 4542; 4554; 4640; 4651
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3196; 4211
XmiI	GT!MKAC	1	1190
XmnI	GAANN!NNTTC	2	1699; 1799
XspI	C!TAG	8	592; 2022; 2223; 2641; 3197; 4212; 4546; 4799
ZraI	GAC!GTC	5	123; 176; 259; 445; 1620
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2946; 3018; 5349