

pTagGFP2-tubulin vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2843; 3048
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	3131; 4087; 5876
AatI	AGG!CCT	2	2497; 3881
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	1541; 1949
AccII	CG!CG	18	60; 695; 932; 1250; 2948; 2984; 3360; 3380; 3404; 3435; 4126; 4427; 4865; 4949; 5012; 5081; 5354; 5935
AccIII	T!CCGGA	1	1321
Acc16I	TGC!GCA	1	4162
Acc36I	ACCTGCNNNN!	2	4328; 4778
Acc36I	!NNNNNNNNGCAGGT	1	3947
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	8	465; 1579; 2115; 2375; 2424; 3213; 4059; 4094
AccB7I	CCANNNN!NTGG	3	1026; 1302; 2367
AccBSI	CCG!CTC	2	3484; 4673
AccBSI	GAG!CGG	3	611; 3320; 4727
AceIII	CAGCTCNNNNNNN!	3	1603; 1621; 3016
AceIII	!NNNNNNNNNNGAGCTG	6	552; 610; 643; 964; 1297; 2444
AciI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 822; 930; 969; 1062; 1107; 1236; 1248; 1587; 2022; 2127; 3375; 3378; 3392; 3482; 3730; 3742; 3751; 3763; 3773; 3784; 3830; 3969; 4032; 4534; 4579; 4645; 4671; 4796; 4799; 4947; 5079; 5386; 5530; 6026
AciI	G!CGG	29	370; 403; 528; 595; 611; 695; 932; 1124; 1127; 3320; 3347; 3435; 3545; 4126; 4190; 4291; 4294; 4574; 4629; 4727; 4865; 5012; 5152; 5395; 5640; 5761; 5780; 5907; 5935
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	9	2703; 2712; 3928; 4239; 4485; 4877; 5236; 5334; 5420
AcIWI	!NNNNNGATCC	7	580; 1182; 2690; 4304; 4848; 5235; 5332
AcOI	Y!GGCCR	10	675; 1139; 1365; 1437; 2144; 2441; 3966; 4140; 4531; 4558
AcsI	R!AATTY	5	1700; 2098; 2874; 2978; 2989
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	1000; 4206; 4638
AcuI	!NNNNNNNNNNNNNNCTTCAG	4	1260; 1479; 1717; 5436
AcvI	CAC!GTG	1	1521
AcyI	GR!CGYC	8	122; 175; 258; 444; 713; 4060; 4762; 4841
AdeI	CACNNN!GTG	3	1053; 1260; 3176
AfaI	GT!AC	14	219; 244; 299; 332; 383; 540; 922; 1033; 1057; 1315; 2293; 2450; 2560; 4366
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	30	49; 611; 773; 906; 936; 1026; 1071; 1242; 1302; 1692; 1797; 2263; 2367; 2445; 2625; 3072; 3398; 3790; 4041; 4585; 4866; 4898; 5030; 5065; 5115; 5147; 5500; 5779; 5945; 5963
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	3	1052; 2946; 5978
AgeI	A!CCGGT	1	1726
AgsI	TTS!AA	12	858; 996; 1041; 1101; 1485; 2391; 2659; 3471; 3515; 3525; 3938; 5514
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	2	669; 2304
AjnI	!CCWGG	29	88; 281; 772; 782; 884; 905; 959; 1013; 1085; 1166; 1265; 1367; 1412; 1862; 1919; 2111; 2427; 2438; 2497; 2507; 3594; 3649; 3666; 4445; 5024; 5127; 5817; 5830; 5951
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNCCAANNNNNNTTC	1	1825
AjuI	CCAANNNNNNTTCNNNNNNNNNNNN!	1	1857
AjuI	!NNNNNNNGAANNNNNNTTGG	0	
AleI	CACNN!NNGTG	3	784; 961; 2422
AlfI	GCANNNNTTGCNNNNNNNNNNNN!	3	1537; 3634; 3706
AlfI	!NNNNNNNNNGCANNNNNTGTC	3	1503; 3600; 3672
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	2	1441; 3142
AloI	!NNNNNNNGGANNNNNNGTTC	1	724
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	1	756
AloI	!NNNNNNNGAACNNNNNTCC	2	1409; 3110
AluI	AG!CT	30	566; 624; 657; 729; 762; 978; 1026; 1037; 1137; 1311; 1404; 1593; 1611; 1710; 1757; 1836; 1876; 2193; 2458; 2839; 3006; 3263; 3558; 3846; 4166; 4624; 5421; 5678; 5724; 5814
AluBI	AG!CT	30	566; 624; 657; 729; 762; 978; 1026; 1037; 1137; 1311; 1404; 1593; 1611; 1710; 1757; 1836; 1876; 2193; 2458; 2839; 3006; 3263; 3558; 3846; 4166; 4624; 5421; 5678; 5724; 5814
AlwI	GGATCNNNN!	9	2703; 2712; 3928; 4239; 4485; 4877; 5236; 5334; 5420
AlwI	!NNNNNGATCC	7	580; 1182; 2690; 4304; 4848; 5235; 5332
Alw21I	GWGCW!C	10	674; 836; 1213; 1265; 1406; 1726; 1928; 4173; 4363; 5668
Alw26I	GTCTCN!	2	434; 1810
Alw26I	!NNNNNGAGAC	6	1495; 2429; 3484; 3902; 4921; 5049
Alw44I	G!TGCAC	3	670; 1722; 5664
AlwNI	CAGNNN!CTG	3	1283; 5161; 5569
Ama87I	C!YCGRG	5	829; 871; 1334; 1526; 1649
Aor13HI	T!CCGGA	1	1321
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	5	813; 1395; 3628; 3700; 5162
ApaLI	G!TGCAC	3	670; 1722; 5664
ApeKI	G!CWGC	22	762; 1134; 1286; 1608; 1633; 2282; 2326; 2354; 2614; 2836; 3355; 4020; 4121; 4163; 4204; 4297; 4684; 5137; 5363; 5569; 5572; 5637
ApoI	R!AATTY	5	1700; 2098; 2874; 2978; 2989
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4575
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4369; 5022; 5860
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	4459
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	4	644; 1494; 2660; 3888
AquIII	!NNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	2	2603; 2696
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	4630
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	1	2535
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNNGACNNNNNTTYG	1	2503
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 651; 735; 1188; 1224; 1331; 1677; 2208; 2696; 2705; 2718; 3898; 3902; 3921; 4232; 4310; 4391; 4400; 4478; 4854; 4870; 5229; 5241; 5319; 5327; 5338; 5413
AsiGI	A!CCGGT	1	1726
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4178
Asp700I	GAANN!NNTTC	2	850; 1773
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3882; 4897
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	27	695; 865; 893; 1282; 1510; 2000; 2354; 3326; 3334; 3360; 3382; 3391; 3404; 3435; 4054; 4062; 4126; 4163; 4429; 4689; 4865; 4951; 5354; 5463; 5637; 5737; 5804
AspS9I	G!GNCC	17	83; 276; 776; 1017; 1177; 1233; 1245; 1319; 1695; 2511; 2598; 3167; 4576; 5021; 5067; 5125; 5158
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	4742
AsuC2I	CC!SGG	6	1527; 1528; 4064; 4224; 4837; 5601
AsuHPI	GGTGANNNNNNN!	10	376; 798; 951; 975; 2256; 2311; 2578; 2680; 5131; 5247

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AsuHPI	!NNNNNNNTCACC	5	1776; 1896; 2202; 3177; 4238
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	5	829; 871; 1334; 1526; 1649
AvaII	G!GWCC	6	1233; 1319; 1695; 2511; 4576; 5021
AviII	TGC!GCA	1	4162
AvrII	C!CTAGG	2	3882; 4897
AxyI	CC!TNAGG	2	3540; 5172
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	1	2550
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	1	2583
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	12	644; 674; 773; 1166; 1526; 1658; 1726; 2120; 2380; 4006; 4099; 5668
BalI	TGG!CCA	5	1367; 1439; 2146; 2443; 4142
BamHI	G!GATCC	1	2695
BanI	G!GYRCC	8	465; 1579; 2115; 2375; 2424; 3213; 4059; 4094
BanII	GRGCY!C	7	1406; 1889; 2079; 2505; 3251; 4425; 5135
BanIII	AT!CGAT	1	3900
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	3	1026; 1302; 2367
BauI	C!ACGAG	2	4778; 5805
BauI	C!TCGTG	1	4652
BbeI	GGCGC!C	1	4063
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	1	1718
BbrPI	CAC!GTG	1	1521
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	1	1723
BbuI	GCATG!C	4	2469; 3630; 3702; 4465
BbvI	GCAGCNNNNNNNN!	9	1146; 1620; 2366; 2848; 4133; 4175; 4696; 5149; 5649
BbvI	!NNNNNNNNNNNGCTGC	12	749; 1273; 1620; 2269; 2313; 2601; 3342; 4007; 4191; 4284; 5350; 5556
Bbv12I	GWGCW!C	10	674; 836; 1213; 1265; 1406; 1726; 1928; 4173; 4363; 5668
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	1	2492
BccI	CCATCNNNN!	11	904; 1201; 1363; 1906; 1969; 2056; 2347; 3190; 3754; 4280; 4782
BccI	!NNNNNGATGG	7	1429; 2065; 2235; 2568; 3158; 3938; 4366
BceAI	ACGGCNNNNNNNNNN!	11	678; 738; 819; 930; 1020; 1098; 1191; 1314; 1437; 4486; 4973
BceAI	!NNNNNNNNNNNNNGCCGT	3	3201; 4019; 5478
Bcefl	ACGGCNNNNNNNNNN!	11	678; 738; 819; 930; 1020; 1098; 1191; 1314; 1437; 4486; 4973
Bcefl	!NNNNNNNNNNNNNGCCGT	3	3202; 4020; 5479
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3489; 4279; 5780
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2717
BcnI	CC!SGG	6	1527; 1528; 4064; 4224; 4837; 5601
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	3	1210; 2740; 5913
BdaI	!NNNNNNNNNNTGANNNNNNNTCA	3	1176; 2706; 5879
BfaI	C!TAG	8	592; 2708; 2909; 3327; 3883; 4898; 5232; 5485
BfiI	ACTGGGNNNNN!	1	4009
BfiI	!NNNNCCAGT	2	289; 3761
BfmI	C!TRYAG	5	1877; 2198; 3395; 5522; 5713
BfoI	RGCGC!Y	8	866; 1283; 1511; 2001; 3327; 3335; 4063; 5738
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	3489; 4279; 5780
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4328; 4778

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BfuAI	!NNNNNNNNGCAGGT	1	3947
BfuCI	!GATC	27	585; 650; 734; 1187; 1223; 1330; 1676; 2207; 2695; 2704; 2717; 3897; 3901; 3920; 4231; 4309; 4390; 4399; 4477; 4853; 4869; 5228; 5240; 5318; 5326; 5337; 5412
BglI	GCCNNNN!NGGC	5	90; 212; 283; 2384; 3835
BglII	A!GATCT	1	1330
BisI	GC!NGC	41	696; 763; 933; 1125; 1128; 1135; 1287; 1609; 1634; 2283; 2327; 2355; 2615; 2837; 3356; 3378; 3392; 3830; 3969; 4021; 4032; 4122; 4127; 4164; 4205; 4292; 4295; 4298; 4534; 4630; 4671; 4685; 4799; 5138; 5153; 5364; 5570; 5573; 5638; 5781; 5936
BlnI	C!CTAGG	2	3882; 4897
BlpI	GC!TNAGC	1	2470
BlsI	GCN!GC	41	697; 764; 934; 1126; 1129; 1136; 1288; 1610; 1635; 2284; 2328; 2356; 2616; 2838; 3357; 3379; 3393; 3831; 3970; 4022; 4033; 4123; 4128; 4165; 4206; 4293; 4296; 4299; 4535; 4631; 4672; 4686; 4800; 5139; 5154; 5365; 5571; 5574; 5639; 5782; 5937
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	6	1233; 1319; 1695; 2511; 4576; 5021
Bme1390I	CC!NGG	35	90; 283; 774; 784; 886; 907; 961; 1015; 1087; 1168; 1267; 1369; 1414; 1527; 1528; 1864; 1921; 2113; 2429; 2440; 2499; 2509; 3596; 3651; 3668; 4064; 4224; 4447; 4837; 5026; 5129; 5601; 5819; 5832; 5953
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	5	829; 871; 1334; 1526; 1649
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	2	669; 2304
BmgT120I	GG!NCC	17	84; 277; 777; 1018; 1178; 1234; 1246; 1320; 1696; 2512; 2599; 3168; 4577; 5022; 5068; 5126; 5159
BmiI	GGN!NCC	23	467; 1179; 1550; 1581; 2076; 2117; 2309; 2377; 2426; 2697; 3215; 3236; 3248; 3439; 3600; 3672; 4061; 4096; 4944; 5023; 5068; 5911; 5950
BmrI	ACTGGGNNNNN!	1	4009
BmrI	!NNNNCCCAGT	2	289; 3761
BmrFI	CC!NGG	35	90; 283; 774; 784; 886; 907; 961; 1015; 1087; 1168; 1267; 1369; 1414; 1527; 1528; 1864; 1921; 2113; 2429; 2440; 2499; 2509; 3596; 3651; 3668; 4064; 4224; 4447; 4837; 5026; 5129; 5601; 5819; 5832; 5953
BmsI	GCATCNNNNN!	14	644; 815; 980; 1358; 1433; 2138; 2366; 2408; 2876; 3639; 3711; 4359; 4423; 4698
BmsI	!NNNNNNNNNGATGC	7	357; 1433; 1620; 4018; 4273; 4489; 5881
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	4009
BmuI	!NNNNCCCAGT	2	289; 3761
BoxI	GACNN!NNGTC	1	1973
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	1	1723
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	3	1368; 3849; 4748
BpI	!NNNNNNNNGAGNNNNNCTC	3	1336; 3817; 4716
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	7	751; 1048; 1108; 1288; 1858; 1942; 4900
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	4843
Bpu10I	CC!TNAGC	2	1207; 1604
Bpu10I	GC!TNAGG	1	2492
Bpu14I	TT!CGAA	1	4742
Bpu1102I	GC!TNAGC	1	2470
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	1	1723
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	2641; 5354; 5893
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	2	4436; 5595
BpuMI	CC!SGG	6	1527; 1528; 4064; 4224; 4837; 5601
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	2429; 5049
Bsa29I	AT!CGAT	1	3900
BsaAI	YAC!GTR	5	340; 1521; 2562; 3176; 4364
BsaBI	GATNN!NNATC	3	1192; 2722; 3919

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsaHI	GR!CGYC	8	122; 175; 258; 444; 713; 4060; 4762; 4841
BsaJI	C!CNNGG	32	360; 772; 782; 872; 930; 959; 1014; 1166; 1167; 1296; 1525; 1650; 1862; 1919; 2262; 2295; 2444; 2498; 3594; 3666; 3789; 3824; 3833; 3882; 4223; 4492; 4897; 5024; 5025; 5127; 5128; 5818
BsaMI	GAATGCN!	1	2811
BsaMI	G!CATTC	1	2904
BsaWI	W!CCGGW	7	1321; 1726; 2701; 4091; 4935; 5625; 5772
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	3140
BsaXI	!NNNNNNNGGAGNNNNNGT	1	724
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	754
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	3110
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	2	1511; 2501
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	3	1670; 3061; 4968
Bsc4I	CCNNNNN!NNGG	30	49; 611; 773; 906; 936; 1026; 1071; 1242; 1302; 1692; 1797; 2263; 2367; 2445; 2625; 3072; 3398; 3790; 4041; 4585; 4866; 4898; 5030; 5065; 5115; 5147; 5500; 5779; 5945; 5963
BscAI	GCATCNNNN!	14	643; 814; 979; 1357; 1432; 2137; 2365; 2407; 2875; 3638; 3710; 4358; 4422; 4697
BscAI	!NNNNNNGATGC	7	360; 1436; 1623; 4021; 4276; 4492; 5884
BseI	ACTGGN!	7	1581; 1776; 2388; 2560; 4004; 4205; 5451
BseI	C!CAGT	9	295; 810; 900; 1719; 2361; 3089; 3767; 5563; 5576
BseI	GATNN!NNATC	3	1192; 2722; 3919
Bse2II	CC!TNAGG	2	3540; 5172
Bse118I	R!CCGGY	7	631; 754; 1726; 3277; 4379; 4560; 4843
BseAI	T!CCGGA	1	1321
BseBI	CC!WGG	29	90; 283; 774; 784; 886; 907; 961; 1015; 1087; 1168; 1267; 1369; 1414; 1864; 1921; 2113; 2429; 2440; 2499; 2509; 3596; 3651; 3668; 4447; 5026; 5129; 5819; 5832; 5953
BseCI	AT!CGAT	1	3900
BseDI	C!CNNGG	32	360; 772; 782; 872; 930; 959; 1014; 1166; 1167; 1296; 1525; 1650; 1862; 1919; 2262; 2295; 2444; 2498; 3594; 3666; 3789; 3824; 3833; 3882; 4223; 4492; 4897; 5024; 5025; 5127; 5128; 5818
Bse3DI	GCAATGNN!	2	1395; 4293
Bse3DI	!CATTGC	2	2330; 2486
BseGI	GGATGNN!	5	2579; 3920; 4377; 4402; 4856
BseGI	!CATCC	11	806; 881; 896; 1010; 1058; 1355; 1424; 1898; 2129; 2357; 3746
BseJI	GATNN!NNATC	3	1192; 2722; 3919
BseLI	CCNNNNN!NNGG	30	49; 611; 773; 906; 936; 1026; 1071; 1242; 1302; 1692; 1797; 2263; 2367; 2445; 2625; 3072; 3398; 3790; 4041; 4585; 4866; 4898; 5030; 5065; 5115; 5147; 5500; 5779; 5945; 5963
BseMI	GCAATGNN!	2	1395; 4293
BseMI	!CATTGC	2	2330; 2486
BseMII	CTCAGNNNNNNNNNN!	4	1228; 1341; 1823; 5186
BseMII	!NNNNNNNNCTGAG	11	1198; 1595; 2053; 2162; 2461; 2483; 3531; 3833; 4714; 5286; 5695
BseNI	ACTGGN!	7	1581; 1776; 2388; 2560; 4004; 4205; 5451
BseNI	C!CAGT	9	295; 810; 900; 1719; 2361; 3089; 3767; 5563; 5576
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	4	634; 1484; 2650; 3878
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	12	644; 674; 773; 1166; 1526; 1658; 1726; 2120; 2380; 4006; 4099; 5668
BseXI	GCAGCNNNNNNNN!	9	1146; 1620; 2366; 2848; 4133; 4175; 4696; 5149; 5649
BseXI	!NNNNNNNNNNNGCTGC	12	749; 1273; 1620; 2269; 2313; 2601; 3342; 4007; 4191; 4284; 5350; 5556
BseX3I	C!GGCCG	1	3966
BseYI	C!CCAGC	4	1854; 3603; 3675; 5674
BseYI	G!CTGGG	2	1397; 4564
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1153
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	732
Bsh1236I	CG!CG	18	60; 695; 932; 1250; 2948; 2984; 3360; 3380; 3404; 3435; 4126; 4427; 4865; 4949; 5012; 5081; 5354; 5935
Bsh1285I	CGRY!CG	3	599; 3969; 5644

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BshFI	GG!CC	34	84; 277; 677; 777; 1019; 1075; 1085; 1141; 1178; 1246; 1367; 1439; 1960; 2146; 2443; 2497; 2599; 3026; 3168; 3823; 3829; 3838; 3881; 3968; 4142; 4533; 4560; 5069; 5126; 5159; 5504; 5938; 5956; 5967
BshNI	G!GYRCC	8	465; 1579; 2115; 2375; 2424; 3213; 4059; 4094
BshTI	A!CCGGT	1	1726
BshVI	AT!CGAT	1	3900
BsiEI	CGRY!CG	3	599; 3969; 5644
BsiHKAI	GWGCW!C	10	674; 836; 1213; 1265; 1406; 1726; 1928; 4173; 4363; 5668
BsiHKCI	C!YCGRG	5	829; 871; 1334; 1526; 1649
BsiSI	C!CGG	22	632; 755; 1322; 1527; 1727; 2702; 3278; 3965; 4042; 4064; 4092; 4223; 4313; 4380; 4561; 4836; 4844; 4936; 5410; 5600; 5626; 5773
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	30	49; 611; 773; 906; 936; 1026; 1071; 1242; 1302; 1692; 1797; 2263; 2367; 2445; 2625; 3072; 3398; 3790; 4041; 4585; 4866; 4898; 5030; 5065; 5115; 5147; 5500; 5779; 5945; 5963
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4211; 4743; 4852
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3576; 3648; 3712; 5007
BsmI	GAATGCN!	1	2811
BsmI	G!CATTC	1	2904
BsmAI	GTCTCN!	2	434; 1810
BsmAI	!NNNNNGAGAC	6	1495; 2429; 3484; 3902; 4921; 5049
BsmBI	CGTCTCN!	1	1810
BsmBI	!NNNNNGAGACG	1	1495
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4211; 4743; 4852
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3576; 3648; 3712; 5007
BsnI	GG!CC	34	84; 277; 677; 777; 1019; 1075; 1085; 1141; 1178; 1246; 1367; 1439; 1960; 2146; 2443; 2497; 2599; 3026; 3168; 3823; 3829; 3838; 3881; 3968; 4142; 4533; 4560; 5069; 5126; 5159; 5504; 5938; 5956; 5967
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	2429; 5049
BsoBI	C!YCGRG	5	829; 871; 1334; 1526; 1649
Bsp13I	T!CCGGA	1	1321
Bsp19I	C!CATGG	4	360; 2262; 3789; 4492
Bsp24I	GACNNNNNNNTGGNNNNNNNNNNNN!	3	289; 1526; 4863
Bsp24I	!NNNNNNNNCCANNNNNNNGTC	3	2026; 5284; 5462
Bsp24I	CCANNNNNNNGTCNNNNNNNNNNNN!	3	2058; 5316; 5494
Bsp24I	!NNNNNNNNGACNNNNNNNTGG	3	257; 1494; 4831
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4742
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	27	585; 650; 734; 1187; 1223; 1330; 1676; 2207; 2695; 2704; 2717; 3897; 3901; 3920; 4231; 4309; 4390; 4399; 4477; 4853; 4869; 5228; 5240; 5318; 5326; 5337; 5412
Bsp1286I	GDGCH!C	25	644; 674; 773; 836; 1166; 1213; 1265; 1406; 1526; 1658; 1726; 1889; 1928; 2079; 2120; 2380; 2505; 3251; 4006; 4099; 4173; 4363; 4425; 5135; 5668
Bsp1407I	T!GTACA	2	1055; 1313
Bsp1720I	GC!TNAGC	1	2470
BspACI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 822; 930; 969; 1062; 1107; 1236; 1248; 1587; 2022; 2127; 3375; 3378; 3392; 3482; 3730; 3742; 3751; 3763; 3773; 3784; 3830; 3969; 4032; 4534; 4579; 4645; 4671; 4796; 4799; 4947; 5079; 5386; 5530; 6026
BspACI	G!CGG	29	370; 403; 528; 595; 611; 695; 932; 1124; 1127; 3320; 3347; 3435; 3545; 4126; 4190; 4291; 4294; 4574; 4629; 4727; 4865; 5012; 5152; 5395; 5640; 5761; 5780; 5907; 5935
BspCNI	CTCAGNNNNNNNNNN!	4	1227; 1340; 1822; 5185
BspCNI	!NNNNNNNCTGAG	11	1199; 1596; 2054; 2163; 2462; 2484; 3532; 3834; 4715; 5287; 5696
BspDI	AT!CGAT	1	3900
BspD6I	GACTCNNNN!	6	418; 1333; 1485; 3133; 4739; 5616
BspD6I	!NNNNNNGAGTC	3	1263; 3096; 3528
BspEI	T!CCGGA	1	1321
BspFNI	CG!CG	18	60; 695; 932; 1250; 2948; 2984; 3360; 3380; 3404; 3435; 4126; 4427; 4865; 4949; 5012; 5081; 5354; 5935

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspHI	T!CATGA	2	3486; 5258
BspLI	GGN!NCC	23	467; 1179; 1550; 1581; 2076; 2117; 2309; 2377; 2426; 2697; 3215; 3236; 3248; 3439; 3600; 3672; 4061; 4096; 4944; 5023; 5068; 5911; 5950
BspMI	ACCTGCNNNN!	2	4328; 4778
BspMI	!NNNNNNNNGCAGGT	1	3947
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	2703; 2712; 3928; 4239; 4485; 4877; 5236; 5334; 5420
BspPI	!NNNNNGATCC	7	580; 1182; 2690; 4304; 4848; 5235; 5332
BspQI	GCTCTCN!	1	1600
BspQI	!NNNNGAAGAGC	2	4404; 4614
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4742
BspT107I	G!GYRCC	8	465; 1579; 2115; 2375; 2424; 3213; 4059; 4094
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	2429; 5049
BsrI	ACTGGN!	7	1581; 1776; 2388; 2560; 4004; 4205; 5451
BsrI	C!CAGT	9	295; 810; 900; 1719; 2361; 3089; 3767; 5563; 5576
BsrBI	CCG!CTC	2	3484; 4673
BsrBI	GAG!CGG	3	611; 3320; 4727
BsrDI	GCAATGNN!	2	1395; 4293
BsrDI	!CATTGC	2	2330; 2486
BsrFI	R!CCGGY	7	631; 754; 1726; 3277; 4379; 4560; 4843
BsrGI	T!GTACA	2	1055; 1313
BsrSI	ACTGGN!	7	1581; 1776; 2388; 2560; 4004; 4205; 5451
BsrSI	C!CAGT	9	295; 810; 900; 1719; 2361; 3089; 3767; 5563; 5576
BssAI	R!CCGGY	7	631; 754; 1726; 3277; 4379; 4560; 4843
BssECI	C!CNNGG	32	360; 772; 782; 872; 930; 959; 1014; 1166; 1167; 1296; 1525; 1650; 1862; 1919; 2262; 2295; 2444; 2498; 3594; 3666; 3789; 3824; 3833; 3882; 4223; 4492; 4897; 5024; 5025; 5127; 5128; 5818
BssHII	G!CGCGC	0	
BssKI	!CCNGG	35	88; 281; 772; 782; 884; 905; 959; 1013; 1085; 1166; 1265; 1367; 1412; 1525; 1526; 1862; 1919; 2111; 2427; 2438; 2497; 2507; 3594; 3649; 3666; 4062; 4222; 4445; 4835; 5024; 5127; 5599; 5817; 5830; 5951
BssMI	!GATC	27	585; 650; 734; 1187; 1223; 1330; 1676; 2207; 2695; 2704; 2717; 3897; 3901; 3920; 4231; 4309; 4390; 4399; 4477; 4853; 4869; 5228; 5240; 5318; 5326; 5337; 5412
BssNI	GR!CGYC	8	122; 175; 258; 444; 713; 4060; 4762; 4841
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4778; 5805
BssSI	C!TCGTG	1	4652
BssT1I	C!CWWGG	7	360; 2262; 2444; 3789; 3882; 4492; 4897
Bst6I	CTCTCN!	1	1600
Bst6I	!NNNNGAAGAG	3	3527; 4404; 4614
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 713; 4060; 4762; 4841
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	5	812; 1394; 3627; 3699; 5161
BstAUI	T!GTACA	2	1055; 1313
BstBI	TT!CGAA	1	4742
Bst2BI	C!ACGAG	2	4778; 5805
Bst2BI	C!TCGTG	1	4652
BstBAI	YAC!GTR	5	340; 1521; 2562; 3176; 4364
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 1557; 2296; 2421; 3151; 4440; 4556; 4664; 4987; 5478; 5948; 6019
BstC8I	GCN!NGC	47	86; 279; 593; 633; 691; 727; 760; 822; 1132; 1139; 1248; 1284; 1395; 1516; 1591; 1708; 1712; 2220; 2231; 2280; 2467; 2505; 2543; 3279; 3322; 3336; 3609; 3628; 3681; 3700; 3954; 4140; 4359; 4425; 4431; 4463; 4504; 4508; 4562; 4845; 5032; 5079; 5135; 5157; 5368; 5928; 5965
BstDEI	C!TNAG	16	1207; 1214; 1327; 1604; 1809; 2062; 2171; 2470; 2492; 2691; 3540; 3842; 4723; 5172; 5295; 5704
BstDSI	C!CRYGG	7	360; 930; 1296; 2262; 2295; 3789; 4492
BstEII	G!GTNACC	1	786

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstENI	CCTNN!NNNAGG	2	2443; 2623
BstF5I	GGATGNN!	5	2579; 3920; 4377; 4402; 4856
BstF5I	!CATCC	11	806; 881; 896; 1010; 1058; 1355; 1424; 1898; 2129; 2357; 3746
BstFNI	CG!CG	18	60; 695; 932; 1250; 2948; 2984; 3360; 3380; 3404; 3435; 4126; 4427; 4865; 4949; 5012; 5081; 5354; 5935
BstH2I	RGCGC!Y	8	866; 1283; 1511; 2001; 3327; 3335; 4063; 5738
BstHHI	GCG!C	27	695; 865; 893; 1282; 1510; 2000; 2354; 3326; 3334; 3360; 3382; 3391; 3404; 3435; 4054; 4062; 4126; 4163; 4429; 4689; 4865; 4951; 5354; 5463; 5637; 5737; 5804
BstKTI	GAT!C	27	588; 653; 737; 1190; 1226; 1333; 1679; 2210; 2698; 2707; 2720; 3900; 3904; 3923; 4234; 4312; 4393; 4402; 4480; 4856; 4872; 5231; 5243; 5321; 5329; 5340; 5415
BstMAI	GTCTCN!	2	434; 1810
BstMAI	!NNNNNGAGAC	6	1495; 2429; 3484; 3902; 4921; 5049
BstMBI	!GATC	27	585; 650; 734; 1187; 1223; 1330; 1676; 2207; 2695; 2704; 2717; 3897; 3901; 3920; 4231; 4309; 4390; 4399; 4477; 4853; 4869; 5228; 5240; 5318; 5326; 5337; 5412
BstMCI	CGRY!CG	3	599; 3969; 5644
BstMWI	GCNNNNN!NNGC	42	90; 212; 244; 283; 376; 400; 654; 695; 755; 768; 812; 1043; 1235; 1286; 1394; 1586; 2030; 2152; 2176; 2332; 2384; 2471; 2542; 3287; 3317; 3344; 3386; 3627; 3699; 3750; 3829; 4051; 4135; 4158; 4297; 4420; 4503; 4770; 4957; 5161; 5360; 5932
BstNI	CC!WGG	29	90; 283; 774; 784; 886; 907; 961; 1015; 1087; 1168; 1267; 1369; 1414; 1864; 1921; 2113; 2429; 2440; 2499; 2509; 3596; 3651; 3668; 4447; 5026; 5129; 5819; 5832; 5953
BstNSI	RCATG!Y	5	2469; 3630; 3702; 4465; 5982
BstOI	CC!WGG	29	90; 283; 774; 784; 886; 907; 961; 1015; 1087; 1168; 1267; 1369; 1414; 1864; 1921; 2113; 2429; 2440; 2499; 2509; 3596; 3651; 3668; 4447; 5026; 5129; 5819; 5832; 5953
BstPI	G!GTNACC	1	786
BstPAI	GACNN!NNGTC	1	1973
BstSCI	!CCNGG	35	88; 281; 772; 782; 884; 905; 959; 1013; 1085; 1166; 1265; 1367; 1412; 1525; 1526; 1862; 1919; 2111; 2427; 2438; 2497; 2507; 3594; 3649; 3666; 4062; 4222; 4445; 4835; 5024; 5127; 5599; 5817; 5830; 5951
BstSFI	C!TRYAG	5	1877; 2198; 3395; 5522; 5713
BstSLI	GKGC!C	12	644; 674; 773; 1166; 1526; 1658; 1726; 2120; 2380; 4006; 4099; 5668
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	18	60; 695; 932; 1250; 2948; 2984; 3360; 3380; 3404; 3435; 4126; 4427; 4865; 4949; 5012; 5081; 5354; 5935
Bst2UI	CC!WGG	29	90; 283; 774; 784; 886; 907; 961; 1015; 1087; 1168; 1267; 1369; 1414; 1864; 1921; 2113; 2429; 2440; 2499; 2509; 3596; 3651; 3668; 4447; 5026; 5129; 5819; 5832; 5953
BstV1I	GCAGCNNNNNNN!	9	1146; 1620; 2366; 2848; 4133; 4175; 4696; 5149; 5649
BstV1I	!NNNNNNNNNNNGCTGC	12	749; 1273; 1620; 2269; 2313; 2601; 3342; 4007; 4191; 4284; 5350; 5556
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	1	1723
BstXI	CCANNNNN!NTGG	3	1435; 1759; 2241
BstX2I	R!GATCY	11	585; 1330; 2695; 2704; 4231; 4477; 4869; 5228; 5240; 5326; 5337
BstYI	R!GATCY	11	585; 1330; 2695; 2704; 4231; 4477; 4869; 5228; 5240; 5326; 5337
BstZI	C!GGCCG	1	3966
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3489; 4279; 5780
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3900
Bsu36I	CC!TNAGG	2	3540; 5172
BsuRI	GG!CC	34	84; 277; 677; 777; 1019; 1075; 1085; 1141; 1178; 1246; 1367; 1439; 1960; 2146; 2443; 2497; 2599; 3026; 3168; 3823; 3829; 3838; 3881; 3968; 4142; 4533; 4560; 5069; 5126; 5159; 5504; 5938; 5956; 5967
BsuTUI	AT!CGAT	1	3900
BtgI	C!CRYGG	7	360; 930; 1296; 2262; 2295; 3789; 4492
BtgZI	GCGATGNNNNNNNNN!	2	3177; 4512
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 4331; 4675

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BthCI	GCNG!C	41	698; 765; 935; 1127; 1130; 1137; 1289; 1611; 1636; 2285; 2329; 2357; 2617; 2839; 3358; 3380; 3394; 3832; 3971; 4023; 4034; 4124; 4129; 4166; 4207; 4294; 4297; 4300; 4536; 4632; 4673; 4687; 4801; 5140; 5155; 5366; 5572; 5575; 5640; 5783; 5938
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	2	669; 2304
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	2051; 2899
BtsCI	GGATGNN!	5	2579; 3920; 4377; 4402; 4856
BtsCI	!CATCC	11	806; 881; 896; 1010; 1058; 1355; 1424; 1898; 2129; 2357; 3746
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4328; 4778
BveI	!NNNNNNNNNGCAGGT	1	3947
Cac8I	GCN!NGC	47	86; 279; 593; 633; 691; 727; 760; 822; 1132; 1139; 1248; 1284; 1395; 1516; 1591; 1708; 1712; 2220; 2231; 2280; 2467; 2505; 2543; 3279; 3322; 3336; 3609; 3628; 3681; 3700; 3954; 4140; 4359; 4425; 4431; 4463; 4504; 4508; 4562; 4845; 5032; 5079; 5135; 5157; 5368; 5928; 5965
CaiI	CAGNNN!CTG	3	1283; 5161; 5569
CciI	T!CATGA	2	3486; 5258
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	8	352; 639; 975; 1119; 4349; 4354; 4552; 4693
CdiI	C!GATG	3	1434; 3163; 4498
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5932
CdpI	!NNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3721; 3763
CelII	GC!TNAGC	1	2470
CfoI	GCG!C	27	695; 865; 893; 1282; 1510; 2000; 2354; 3326; 3334; 3360; 3382; 3391; 3404; 3435; 4054; 4062; 4126; 4163; 4429; 4689; 4865; 4951; 5354; 5463; 5637; 5737; 5804
CfrI	Y!GGCCR	10	675; 1139; 1365; 1437; 2144; 2441; 3966; 4140; 4531; 4558
Cfr9I	C!CCGGG	1	1526
Cfr10I	R!CCGGY	7	631; 754; 1726; 3277; 4379; 4560; 4843
Cfr13I	G!GNCC	17	83; 276; 776; 1017; 1177; 1233; 1245; 1319; 1695; 2511; 2598; 3167; 4576; 5021; 5067; 5125; 5158
Cfr42I	CCGC!GG	1	933
ChaI	GATC!	27	589; 654; 738; 1191; 1227; 1334; 1680; 2211; 2699; 2708; 2721; 3901; 3905; 3924; 4235; 4313; 4394; 4403; 4481; 4857; 4873; 5232; 5244; 5322; 5330; 5341; 5416
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	6	1072; 2059; 3877; 5317; 5417; 5495
CjeI	!NNNNNNNNNACNNNNNNNTGG	9	64; 257; 1494; 1761; 3544; 3639; 4831; 5381; 5936
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	9	98; 291; 1528; 1795; 3578; 3673; 4865; 5415; 5970
CjeI	!NNNNNNNNCCANNNNNNGT	6	1038; 2025; 3843; 5283; 5383; 5461
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	3	2059; 5317; 5495
CjePI	!NNNNNNNNGANNNNNNNTGG	5	257; 1494; 2055; 4831; 5430
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	5	290; 1527; 2088; 4864; 5463
CjePI	!NNNNNNNNCCANNNNNNNNTC	3	2026; 5284; 5462
Clal	AT!CGAT	1	3900
CpoI	CG!GWCCG	1	4576
CseI	GACGCNNNNN!	4	526; 721; 4770; 4849
CseI	!NNNNNNNNNNNGCGTC	3	3393; 5288; 5866
CsiI	A!CCWGGT	2	2111; 3649
CspI	CG!GWCCG	1	4576
Csp6I	G!TAC	14	218; 243; 298; 331; 382; 539; 921; 1032; 1056; 1314; 2292; 2449; 2559; 4365
Csp45I	TT!CGAA	1	4742
CspAI	A!CCGGT	1	1726
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	2	1542; 2469
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	2	1577; 2504
CspCI	!NNNNNNNNNNCAANNNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	5	1022; 1697; 2685; 3340; 4949
CstMI	!NNNNNNNNNNNNNNNNNNCTCCT	1	1460
CviAII	C!ATG	26	301; 361; 606; 837; 867; 1257; 1302; 1797; 1944; 2185; 2263; 2274; 2466; 3487; 3627; 3699; 3790; 3931; 4276; 4462; 4493; 4519; 4875; 5259; 5979; 6030

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviJI	RG!CY	124	42; 84; 93; 277; 566; 624; 657; 677; 729; 762; 777; 878; 978; 1019; 1026; 1037; 1046; 1075; 1085; 1093; 1137; 1141; 1178; 1246; 1311; 1367; 1372; 1404; 1431; 1439; 1531; 1593; 1611; 1710; 1714; 1739; 1757; 1836; 1876; 1887; 1960; 2033; 2077; 2146; 2179; 2193; 2229; 2233; 2278; 2387; 2412; 2443; 2458; 2485; 2497; 2503; 2599; 2614; 2729; 2839; 3006; 3026; 3168; 3249; 3263; 3277; 3558; 3599; 3671; 3794; 3823; 3829; 3838; 3846; 3869; 3881; 3887; 3968; 3985; 3993; 4020; 4045; 4129; 4138; 4142; 4166; 4204; 4280; 4297; 4316; 4379; 4423; 4433; 4450; 4533; 4560; 4564; 4601; 4624; 4640; 4820; 4847; 4908; 5030; 5069; 5126; 5133; 5140; 5159; 5170; 5421; 5450; 5493; 5504; 5569; 5648; 5673; 5678; 5724; 5814; 5912; 5938; 5956; 5967
CviKI-1	RG!CY	124	42; 84; 93; 277; 566; 624; 657; 677; 729; 762; 777; 878; 978; 1019; 1026; 1037; 1046; 1075; 1085; 1093; 1137; 1141; 1178; 1246; 1311; 1367; 1372; 1404; 1431; 1439; 1531; 1593; 1611; 1710; 1714; 1739; 1757; 1836; 1876; 1887; 1960; 2033; 2077; 2146; 2179; 2193; 2229; 2233; 2278; 2387; 2412; 2443; 2458; 2485; 2497; 2503; 2599; 2614; 2729; 2839; 3006; 3026; 3168; 3249; 3263; 3277; 3558; 3599; 3671; 3794; 3823; 3829; 3838; 3846; 3869; 3881; 3887; 3968; 3985; 3993; 4020; 4045; 4129; 4138; 4142; 4166; 4204; 4280; 4297; 4316; 4379; 4423; 4433; 4450; 4533; 4560; 4564; 4601; 4624; 4640; 4820; 4847; 4908; 5030; 5069; 5126; 5133; 5140; 5159; 5170; 5421; 5450; 5493; 5504; 5569; 5648; 5673; 5678; 5724; 5814; 5912; 5938; 5956; 5967
CviQI	G!TAC	14	218; 243; 298; 331; 382; 539; 921; 1032; 1056; 1314; 2292; 2449; 2559; 4365
DdeI	C!TNAG	16	1207; 1214; 1327; 1604; 1809; 2062; 2171; 2470; 2492; 2691; 3540; 3842; 4723; 5172; 5295; 5704
DinI	GGC!GCC	1	4061
DpnI	GA!TC	27	587; 652; 736; 1189; 1225; 1332; 1678; 2209; 2697; 2706; 2719; 3899; 3903; 3922; 4233; 4311; 4392; 4401; 4479; 4855; 4871; 5230; 5242; 5320; 5328; 5339; 5414
DpnII	!GATC	27	585; 650; 734; 1187; 1223; 1330; 1676; 2207; 2695; 2704; 2717; 3897; 3901; 3920; 4231; 4309; 4390; 4399; 4477; 4853; 4869; 5228; 5240; 5318; 5326; 5337; 5412
DraI	TTT!AAA	3	2762; 5204; 5223
DraII	RG!GNCCY	1	5158
DraIII	CACNNN!GTG	3	1053; 1260; 3176
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	6	266; 944; 1013; 1256; 1541; 5540
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTTG	0	
DrdI	GACNNN!NNGTC	3	3131; 4087; 5876
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	2	476; 1957
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	3131; 4087; 5876
EaeI	Y!GGCCR	10	675; 1139; 1365; 1437; 2144; 2441; 3966; 4140; 4531; 4558
EagI	C!GGCCG	1	3966
Eam1104I	CTCTTCN!	1	1600
Eam1104I	!NNNNGAAGAG	3	3527; 4404; 4614
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	1	1600
EarI	!NNNNGAAGAG	3	3527; 4404; 4614
EciI	GGCGGANNNNNNNNNNNN!	4	3560; 4589; 5776; 5922
EciI	!NNNNNNNNNTCCGCC	5	496; 1051; 3731; 3752; 3773
Ecl136II	GAG!CTC	1	1404
EclXI	C!GGCCG	1	3966
Eco24I	GRGCY!C	7	1406; 1889; 2079; 2505; 3251; 4425; 5135
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	2429; 5049
Eco32I	GAT!ATC	1	1992
Eco47I	G!GWCC	6	1233; 1319; 1695; 2511; 4576; 5021
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	1	3966
Eco57I	CTGAAGNNNNNNNNNNNNNNNNNN!	3	1000; 4206; 4638
Eco57I	!NNNNNNNNNNNNNNNNCTTCAG	4	1260; 1479; 1717; 5436
Eco72I	CAC!GTG	1	1521

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco8II	CC!TNAGG	2	3540; 5172
Eco88I	C!YCGRG	5	829; 871; 1334; 1526; 1649
Eco91I	G!GTNACC	1	786
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	7	360; 2262; 2444; 3789; 3882; 4492; 4897
Eco147I	AGG!CCT	2	2497; 3881
EcoHI	!CCSGG	6	1525; 1526; 4062; 4222; 4835; 5599
EcoICRI	GAG!CTC	1	1404
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	10	751; 1000; 1048; 1108; 1288; 1858; 1942; 4206; 4638; 4900
Eco57MI	!NNNNNNNNNNNNNNCTYAG	5	1260; 1479; 1717; 4843; 5436
EcoNI	CCTNN!NNNAGG	2	2443; 2623
EcoO65I	G!GTNACC	1	786
EcoO109I	RG!GNCCY	1	5158
EcoRI	G!AATTC	2	1700; 2098
EcoRII	!CCWGG	29	88; 281; 772; 782; 884; 905; 959; 1013; 1085; 1166; 1265; 1367; 1412; 1862; 1919; 2111; 2427; 2438; 2497; 2507; 3594; 3649; 3666; 4445; 5024; 5127; 5817; 5830; 5951
EcoRV	GAT!ATC	1	1992
EcoT14I	C!CWWGG	7	360; 2262; 2444; 3789; 3882; 4492; 4897
EcoT22I	ATGCA!T	3	3632; 3704; 6035
EcoT38I	GRGCY!C	7	1406; 1889; 2079; 2505; 3251; 4425; 5135
Eco53kI	GAG!CTC	1	1404
EgeI	GGC!GCC	1	4061
EheI	GGC!GCC	1	4061
ErhI	C!CWWGG	7	360; 2262; 2444; 3789; 3882; 4492; 4897
EsaBC3I	TC!GA	18	654; 948; 975; 1119; 1336; 1989; 1995; 3210; 3901; 4174; 4330; 4354; 4390; 4552; 4743; 4788; 5043; 5881
Esp3I	CGTCTCN!	1	1810
Esp3I	!NNNNNGAGACG	1	1495
FaeI	CATG!	26	304; 364; 609; 840; 870; 1260; 1305; 1800; 1947; 2188; 2266; 2277; 2469; 3490; 3630; 3702; 3793; 3934; 4279; 4465; 4496; 4522; 4878; 5262; 5982; 6033
Fail	YA!TR	70	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 607; 838; 868; 1258; 1303; 1646; 1798; 1820; 1945; 1967; 2151; 2153; 2186; 2264; 2275; 2467; 2534; 2611; 2633; 2722; 2732; 2798; 2843; 3048; 3476; 3488; 3619; 3628; 3691; 3700; 3724; 3791; 3815; 3932; 3996; 4277; 4302; 4463; 4494; 4520; 4592; 4808; 4876; 4954; 5006; 5167; 5184; 5186; 5188; 5260; 5538; 5727; 5843; 5916; 5980; 6031
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	2562; 4400
FalI	!NNNNNNNNAAGNNNNNCTT	2	2530; 4368
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4211; 4743; 4852
FaqI	!NNNNNNNNNNNNNGTCCC	4	3576; 3648; 3712; 5007
FatI	!CATG	26	300; 360; 605; 836; 866; 1256; 1301; 1796; 1943; 2184; 2262; 2273; 2465; 3486; 3626; 3698; 3789; 3930; 4275; 4461; 4492; 4518; 4874; 5258; 5978; 6029
FauI	CCCGCNNNN!	13	93; 119; 286; 829; 937; 1114; 1255; 2134; 3382; 3737; 3758; 4954; 5086
FauI	!NNNNNNNGCGGG	6	604; 3313; 4183; 4720; 4858; 5005
FauNDI	CA!TATG	2	234; 2151
FbaI	T!GATCA	1	2717
FblI	GT!MKAC	2	1541; 1949
FmuI	GGNC!C	17	86; 279; 779; 1020; 1180; 1236; 1248; 1322; 1698; 2514; 2601; 3170; 4579; 5024; 5070; 5128; 5161
Fnu4HI	GC!NGC	41	696; 763; 933; 1125; 1128; 1135; 1287; 1609; 1634; 2283; 2327; 2355; 2615; 2837; 3356; 3378; 3392; 3830; 3969; 4021; 4032; 4122; 4127; 4164; 4205; 4292; 4295; 4298; 4534; 4630; 4671; 4685; 4799; 5138; 5153; 5364; 5570; 5573; 5638; 5781; 5936
FokI	GGATGNNNNNNNNNN!	5	2586; 3927; 4384; 4409; 4863
FokI	!NNNNNNNNNNNNNCATCC	10	793; 868; 997; 1045; 1342; 1411; 1885; 2116; 2344; 3733
FriOI	GRGCY!C	7	1406; 1889; 2079; 2505; 3251; 4425; 5135
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	4162
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 2708; 2909; 3327; 3883; 4898; 5232; 5485

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	209	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 615; 645; 691; 729; 765; 779; 795; 823; 841; 879; 898; 913; 942; 972; 1027; 1060; 1075; 1089; 1119; 1155; 1170; 1192; 1206; 1233; 1249; 1267; 1287; 1303; 1335; 1368; 1393; 1407; 1426; 1441; 1460; 1494; 1538; 1565; 1596; 1612; 1650; 1677; 1699; 1732; 1765; 1800; 1845; 1860; 1874; 1901; 1915; 1929; 1953; 1974; 1999; 2014; 2029; 2047; 2061; 2091; 2116; 2132; 2146; 2160; 2193; 2226; 2243; 2269; 2299; 2324; 2343; 2361; 2392; 2422; 2441; 2457; 2493; 2511; 2527; 2550; 2613; 2631; 2712; 2743; 2782; 2796; 2937; 3032; 3056; 3079; 3102; 3120; 3142; 3163; 3182; 3201; 3230; 3251; 3265; 3291; 3379; 3405; 3454; 3495; 3513; 3552; 3568; 3606; 3663; 3678; 3735; 3755; 3769; 3786; 3800; 3837; 3852; 3895; 3978; 4045; 4076; 4096; 4111; 4156; 4170; 4236; 4250; 4269; 4285; 4326; 4346; 4393; 4443; 4459; 4479; 4504; 4524; 4547; 4574; 4592; 4618; 4658; 4684; 4708; 4764; 4778; 4806; 4849; 4870; 4905; 4949; 5037; 5061; 5083; 5103; 5119; 5140; 5154; 5173; 5257; 5277; 5305; 5320; 5354; 5396; 5423; 5438; 5483; 5507; 5521; 5543; 5569; 5589; 5613; 5639; 5687; 5706; 5725; 5751; 5786; 5831; 5861; 5875; 5926; 5940; 5965; 5981; 6002; 6031
FspEI	!NNNNNNNNNNNNNGG	168	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 580; 598; 617; 643; 680; 707; 740; 759; 788; 859; 892; 917; 935; 967; 985; 1012; 1057; 1075; 1105; 1123; 1153; 1216; 1243; 1283; 1302; 1349; 1370; 1399; 1421; 1448; 1489; 1512; 1531; 1562; 1604; 1637; 1657; 1678; 1696; 1720; 1745; 1763; 1783; 1805; 1849; 1906; 1930; 2057; 2098; 2128; 2227; 2249; 2282; 2353; 2377; 2407; 2425; 2479; 2541; 2560; 2581; 2611; 2632; 2650; 2668; 2687; 2731; 2831; 2900; 3008; 3057; 3079; 3107; 3143; 3188; 3217; 3253; 3272; 3300; 3320; 3383; 3406; 3514; 3546; 3564; 3593; 3636; 3665; 3776; 3805; 3848; 3869; 3897; 3930; 3950; 3975; 4002; 4027; 4049; 4077; 4103; 4124; 4175; 4196; 4214; 4262; 4298; 4354; 4379; 4403; 4432; 4455; 4479; 4505; 4527; 4546; 4571; 4611; 4647; 4712; 4797; 4821; 4850; 4884; 4905; 4925; 4970; 4997; 5016; 5049; 5101; 5132; 5159; 5211; 5309; 5380; 5425; 5486; 5551; 5585; 5611; 5629; 5665; 5735; 5758; 5780; 5804; 5837; 5885; 5920; 5938; 5995
Fsp4HI	GC!NGC	41	696; 763; 933; 1125; 1128; 1135; 1287; 1609; 1634; 2283; 2327; 2355; 2615; 2837; 3356; 3378; 3392; 3830; 3969; 4021; 4032; 4122; 4127; 4164; 4205; 4292; 4295; 4298; 4534; 4630; 4671; 4685; 4799; 5138; 5153; 5364; 5570; 5573; 5638; 5781; 5936
GdiII	C!GGCCR	2	675; 3966
GdiII	Y!GGCCG	4	1139; 3966; 4531; 4558
GlaI	GC!GC	27	694; 864; 892; 1281; 1509; 1999; 2353; 3325; 3333; 3359; 3381; 3390; 3403; 3434; 4053; 4061; 4125; 4162; 4428; 4688; 4864; 4950; 5353; 5462; 5636; 5736; 5803
Glul	GC!NGC	41	696; 763; 933; 1125; 1128; 1135; 1287; 1609; 1634; 2283; 2327; 2355; 2615; 2837; 3356; 3378; 3392; 3830; 3969; 4021; 4032; 4122; 4127; 4164; 4205; 4292; 4295; 4298; 4534; 4630; 4671; 4685; 4799; 5138; 5153; 5364; 5570; 5573; 5638; 5781; 5936
GsaI	CCCAG!C	4	1858; 3607; 3679; 5678
GsaI	GCTGG!G	2	1401; 4568
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	7	751; 1048; 1108; 1288; 1858; 1942; 4900
GsuI	!NNNNNNNNNNNNNCTCCAG	1	4843
HaeI	WGG!CCW	12	1075; 1367; 1439; 1960; 2146; 2443; 2497; 3881; 4142; 5504; 5956; 5967
HaeII	RGCG!Y	8	866; 1283; 1511; 2001; 3327; 3335; 4063; 5738
HaeIII	GG!CC	34	84; 277; 677; 777; 1019; 1075; 1085; 1141; 1178; 1246; 1367; 1439; 1960; 2146; 2443; 2497; 2599; 3026; 3168; 3823; 3829; 3838; 3881; 3968; 4142; 4533; 4560; 5069; 5126; 5159; 5504; 5938; 5956; 5967
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	2735; 4256
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	2701; 4222
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	2734; 4255
HaeIV	!NNNNNNNGAYNNNNNNRTC	2	2703; 4224
HapII	C!CGG	22	632; 755; 1322; 1527; 1727; 2702; 3278; 3965; 4042; 4064; 4092; 4223; 4313; 4380; 4561; 4836; 4844; 4936; 5410; 5600; 5626; 5773

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HgaI	GACGCNNNNN!	4	526; 721; 4770; 4849
HgaI	!NNNNNNNNNGCGTC	3	3393; 5288; 5866
HhaI	GCG!C	27	695; 865; 893; 1282; 1510; 2000; 2354; 3326; 3334; 3360; 3382; 3391; 3404; 3435; 4054; 4062; 4126; 4163; 4429; 4689; 4865; 4951; 5354; 5463; 5637; 5737; 5804
HinI	GR!CGYC	8	122; 175; 258; 444; 713; 4060; 4762; 4841
Hin1II	CATG!	26	304; 364; 609; 840; 870; 1260; 1305; 1800; 1947; 2188; 2266; 2277; 2469; 3490; 3630; 3702; 3793; 3934; 4279; 4465; 4496; 4522; 4878; 5262; 5982; 6033
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	2734; 4255
Hin4I	!NNNNNNNNGABNNNNNNRTC	3	2702; 4223; 4253
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	2734; 4255; 4285
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	2702; 4223
Hin6I	G!CGC	27	693; 863; 891; 1280; 1508; 1998; 2352; 3324; 3332; 3358; 3380; 3389; 3402; 3433; 4052; 4060; 4124; 4161; 4427; 4687; 4863; 4949; 5352; 5461; 5635; 5735; 5802
HinP1I	G!CGC	27	693; 863; 891; 1280; 1508; 1998; 2352; 3324; 3332; 3358; 3380; 3389; 3402; 3433; 4052; 4060; 4124; 4161; 4427; 4687; 4863; 4949; 5352; 5461; 5635; 5735; 5802
HincII	GTY!RAC	2	2088; 2823
HindII	GTY!RAC	2	2088; 2823
HindIII	A!AGCTT	0	
HinfI	G!ANTC	15	410; 1270; 1325; 1477; 2650; 3103; 3125; 3535; 4545; 4679; 4731; 4789; 4826; 5608; 6004
HpaI	GTT!AAC	1	2823
HpaII	C!CGG	22	632; 755; 1322; 1527; 1727; 2702; 3278; 3965; 4042; 4064; 4092; 4223; 4313; 4380; 4561; 4836; 4844; 4936; 5410; 5600; 5626; 5773
HphI	GGTGANNNNNNNN!	10	376; 798; 951; 975; 2256; 2311; 2578; 2680; 5131; 5247
HphI	!NNNNNNNTCACC	5	1776; 1896; 2202; 3177; 4238
Hpy8I	GTN!NAC	17	201; 539; 577; 672; 966; 1056; 1542; 1724; 1784; 1950; 2088; 2553; 2823; 3107; 3124; 3179; 5666
Hpy99I	CGWCG!	11	670; 715; 916; 1177; 4150; 4178; 4472; 4487; 4764; 5149; 5882
Hpy166II	GTN!NAC	17	201; 539; 577; 672; 966; 1056; 1542; 1724; 1784; 1950; 2088; 2553; 2823; 3107; 3124; 3179; 5666
Hpy188I	TCN!GA	15	585; 1217; 1330; 1932; 2595; 3234; 3843; 4027; 4371; 4724; 4825; 5304; 5438; 5791; 5869
Hpy188III	TC!NNGA	26	858; 1101; 1322; 1334; 1380; 2103; 2708; 3487; 3539; 3852; 3905; 4078; 4394; 4403; 4486; 4542; 4586; 4676; 4709; 4778; 5259; 5333; 5416; 5514; 5612; 5746
HpyAV	CCTTCNNNNNN!	6	1284; 1491; 1950; 4705; 4812; 5491
HpyAV	!NNNNNGAAGG	12	975; 2575; 2619; 2653; 2671; 3293; 4188; 4917; 4933; 5116; 5433; 5743
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 1557; 2296; 2421; 3151; 4440; 4556; 4664; 4987; 5478; 5948; 6019
HpyCH4IV	A!CGT	22	122; 134; 175; 258; 339; 444; 668; 1052; 1160; 1361; 1520; 1803; 2303; 2561; 3120; 3132; 3175; 3285; 4176; 4363; 5144; 5277
HpyCH4V	TG!CA	22	672; 749; 1134; 1349; 1724; 2465; 2809; 2836; 2904; 3621; 3630; 3693; 3702; 3817; 3893; 3952; 4111; 4286; 4300; 5370; 5666; 6033
HpyF3I	C!TNAG	16	1207; 1214; 1327; 1604; 1809; 2062; 2171; 2470; 2492; 2691; 3540; 3842; 4723; 5172; 5295; 5704
HpyF10VI	GCNNNNN!NNGC	42	90; 212; 244; 283; 376; 400; 654; 695; 755; 768; 812; 1043; 1235; 1286; 1394; 1586; 2030; 2152; 2176; 2332; 2384; 2471; 2542; 3287; 3317; 3344; 3386; 3627; 3699; 3750; 3829; 4051; 4135; 4158; 4297; 4420; 4503; 4770; 4957; 5161; 5360; 5932
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 713; 4060; 4762; 4841
Hsp92II	CATG!	26	304; 364; 609; 840; 870; 1260; 1305; 1800; 1947; 2188; 2266; 2277; 2469; 3490; 3630; 3702; 3793; 3934; 4279; 4465; 4496; 4522; 4878; 5262; 5982; 6033
HspAI	G!CGC	27	693; 863; 891; 1280; 1508; 1998; 2352; 3324; 3332; 3358; 3380; 3389; 3402; 3433; 4052; 4060; 4124; 4161; 4427; 4687; 4863; 4949; 5352; 5461; 5635; 5735; 5802
KasI	G!GCGCC	1	4059
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1321

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
KspI	CCGC!GG	1	933
Ksp22I	T!GATCA	1	2717
KspAI	GTT!AAC	1	2823
Kzo9I	!GATC	27	585; 650; 734; 1187; 1223; 1330; 1676; 2207; 2695; 2704; 2717; 3897; 3901; 3920; 4231; 4309; 4390; 4399; 4477; 4853; 4869; 5228; 5240; 5318; 5326; 5337; 5412
LguI	GCTCTTCN!	1	1600
LguI	!NNNNGAAGAGC	2	4404; 4614
LpnI	RGC!GCGY	8	864; 1281; 1509; 1999; 3325; 3333; 4061; 5736
LpnPI	CCDGNNNNNNNNN!	84	102; 295; 645; 768; 786; 823; 898; 913; 973; 1027; 1099; 1165; 1180; 1219; 1279; 1296; 1335; 1381; 1407; 1426; 1441; 1540; 1603; 1732; 1804; 1868; 1933; 2047; 2074; 2092; 2116; 2171; 2243; 2299; 2374; 2422; 2441; 2511; 2539; 2715; 2797; 3102; 3291; 3514; 3552; 3568; 3608; 3663; 3680; 3780; 3865; 3978; 4055; 4077; 4100; 4236; 4250; 4269; 4326; 4393; 4443; 4459; 4516; 4574; 4783; 4849; 4873; 4949; 5038; 5141; 5174; 5405; 5423; 5569; 5589; 5613; 5639; 5688; 5786; 5831; 5861; 5940; 5965; 6002
LpnPI	!NNNNNNNNNNNNNCHGG	76	75; 268; 552; 617; 643; 715; 740; 759; 871; 892; 946; 1000; 1072; 1123; 1153; 1252; 1302; 1354; 1383; 1496; 1562; 1604; 1696; 1720; 1757; 1822; 1849; 1906; 2098; 2128; 2369; 2414; 2484; 2541; 2687; 3143; 3263; 3320; 3383; 3581; 3593; 3653; 3665; 3897; 3942; 3985; 4027; 4049; 4077; 4124; 4186; 4208; 4298; 4365; 4388; 4432; 4527; 4546; 4571; 4720; 4821; 4864; 4921; 5011; 5114; 5141; 5159; 5395; 5432; 5585; 5611; 5751; 5769; 5804; 5885; 5938
Lsp1109I	GCAGCNNNNNNNN!	9	1146; 1620; 2366; 2848; 4133; 4175; 4696; 5149; 5649
Lsp1109I	!NNNNNNNNNNNGCTGC	12	749; 1273; 1620; 2269; 2313; 2601; 3342; 4007; 4191; 4284; 5350; 5556
LweI	GCATCNNNNN!	14	644; 815; 980; 1358; 1433; 2138; 2366; 2408; 2876; 3639; 3711; 4359; 4423; 4698
LweI	!NNNNNNNNNGATGC	7	357; 1433; 1620; 4018; 4273; 4489; 5881
MabI	A!CCWGGT	2	2111; 3649
MaeI	C!TAG	8	592; 2708; 2909; 3327; 3883; 4898; 5232; 5485
MaeII	A!CGT	22	122; 134; 175; 258; 339; 444; 668; 1052; 1160; 1361; 1520; 1803; 2303; 2561; 3120; 3132; 3175; 3285; 4176; 4363; 5144; 5277
MaeIII	!GTNAC	16	61; 148; 497; 786; 1450; 2251; 2299; 2848; 3349; 3361; 4180; 4486; 5176; 5442; 5558; 5621
MalI	GA!TC	27	587; 652; 736; 1189; 1225; 1332; 1678; 2209; 2697; 2706; 2719; 3899; 3903; 3922; 4233; 4311; 4392; 4401; 4479; 4855; 4871; 5230; 5242; 5320; 5328; 5339; 5414
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	5	144; 197; 466; 540; 1707
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	4	157; 240; 426; 2300
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3484; 4673
MbiI	GAG!CGG	3	611; 3320; 4727
MboI	!GATC	27	585; 650; 734; 1187; 1223; 1330; 1676; 2207; 2695; 2704; 2717; 3897; 3901; 3920; 4231; 4309; 4390; 4399; 4477; 4853; 4869; 5228; 5240; 5318; 5326; 5337; 5412
MboII	GAAGANNNNNNNN!	9	852; 1639; 2617; 2686; 3316; 3544; 4421; 4631; 5250
MboII	!NNNNNNNTCTTC	8	846; 1485; 1587; 1723; 4711; 4878; 5078; 5321
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2810
MfII	R!GATCY	11	585; 1330; 2695; 2704; 4231; 4477; 4869; 5228; 5240; 5326; 5337
MhII	GDGCH!C	25	644; 674; 773; 836; 1166; 1213; 1265; 1406; 1526; 1658; 1726; 1889; 1928; 2079; 2120; 2380; 2505; 3251; 4006; 4099; 4173; 4363; 4425; 5135; 5668
MisI	TGG!CCA	5	1367; 1439; 2146; 2443; 4142
MluI	A!CGCGT	1	2946
MluNI	TGG!CCA	5	1367; 1439; 2146; 2443; 4142
MlyI	GAGTCNNNNN!	3	1279; 3112; 3544
MlyI	!NNNNNGACTC	6	404; 1319; 1471; 3119; 4725; 5602
Mly113I	GG!CGCC	1	4060
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	1	3153
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	3	1673; 5585; 5769

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MnII	CCTC>NNNNNNN!	15	805; 1797; 1912; 1996; 2055; 2150; 2267; 2423; 2779; 3843; 4661; 4867; 5181; 5551; 5875
MnII	!NNNNNNGAGG	31	541; 612; 693; 867; 930; 942; 993; 1083; 1113; 1236; 1462; 1645; 1950; 2487; 2562; 2589; 2628; 2658; 2676; 2739; 3204; 3535; 3813; 3856; 3871; 3911; 3975; 4111; 4468; 4898; 5801
Mph1103I	ATGCA!T	3	3632; 3704; 6035
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1321
MroNI	G!CCGGC	4	631; 3277; 4560; 4843
MroXI	GAANN!NNTTC	2	850; 1773
MscI	TGG!CCA	5	1367; 1439; 2146; 2443; 4142
MseI	T!TAA	16	7; 2018; 2761; 2822; 2943; 2964; 2975; 2987; 2998; 3015; 3113; 3384; 5203; 5217; 5222; 5274
MslI	CAYNN!NNRTG	6	365; 784; 841; 961; 2422; 4497
MspI	C!CGG	22	632; 755; 1322; 1527; 1727; 1727; 2702; 3278; 3965; 4042; 4064; 4092; 4223; 4313; 4380; 4561; 4836; 4844; 4936; 5410; 5600; 5626; 5773
Msp20I	TGG!CCA	5	1367; 1439; 2146; 2443; 4142
MspA1I	CMG!CKG	7	932; 1137; 1876; 3558; 4166; 5395; 5640
MspCI	C!TTAAG	0	
MspJI	CNNRRNNNNNNNN!	307	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; 618; 644; 657; 670; 685; 702; 717; 738; 767; 780; 795; 822; 841; 870; 883; 897; 912; 930; 943; 960; 973; 987; 1008; 1026; 1039; 1060; 1078; 1098; 1113; 1131; 1150; 1164; 1179; 1192; 1218; 1232; 1249; 1267; 1295; 1309; 1329; 1346; 1372; 1385; 1406; 1425; 1440; 1453; 1467; 1517; 1531; 1557; 1585; 1602; 1615; 1629; 1649; 1662; 1683; 1699; 1717; 1731; 1747; 1765; 1784; 1803; 1821; 1836; 1849; 1866; 1884; 1901; 1915; 1932; 1956; 1990; 2007; 2024; 2038; 2073; 2091; 2104; 2120; 2138; 2155; 2170; 2183; 2197; 2216; 2231; 2246; 2270; 2286; 2308; 2323; 2355; 2373; 2392; 2421; 2440; 2456; 2478; 2493; 2510; 2527; 2549; 2568; 2598; 2612; 2632; 2703; 2720; 2733; 2748; 2767; 2784; 2797; 2838; 2852; 2865; 2883; 2921; 2936; 2954; 2995; 3019; 3039; 3057; 3078; 3101; 3133; 3148; 3170; 3188; 3201; 3222; 3239; 3252; 3265; 3281; 3294; 3324; 3339; 3364; 3382; 3395; 3410; 3434; 3448; 3472; 3497; 3513; 3551; 3567; 3606; 3620; 3634; 3662; 3678; 3692; 3706; 3735; 3748; 3769; 3778; 3800; 3830; 3846; 3864; 3894; 3917; 3941; 3965; 3984; 4012; 4038; 4054; 4067; 4090; 4104; 4124; 4137; 4151; 4170; 4184; 4197; 4213; 4228; 4241; 4257; 4272; 4288; 4313; 4332; 4348; 4361; 4374; 4392; 4406; 4420; 4436; 4458; 4474; 4493; 4515; 4531; 4554; 4573; 4587; 4603; 4617; 4637; 4653; 4666; 4688; 4721; 4735; 4755; 4768; 4782; 4836; 4849; 4872; 4885; 4904; 4921; 4948; 4984; 5017; 5036; 5061; 5082; 5109; 5122; 5139; 5153; 5168; 5184; 5244; 5269; 5285; 5307; 5320; 5334; 5365; 5379; 5404; 5422; 5437; 5450; 5469; 5482; 5497; 5526; 5545; 5563; 5588; 5603; 5622; 5638; 5657; 5675; 5691; 5705; 5724; 5751; 5774; 5796; 5815; 5830; 5843; 5860; 5880; 5907; 5920; 5939; 5964; 5987; 6001; 6014; 6031

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNGG	257	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 592; 614; 631; 655; 672; 691; 712; 732; 752; 769; 788; 807; 844; 871; 892; 910; 932; 961; 982; 1000; 1039; 1057; 1087; 1105; 1124; 1147; 1166; 1192; 1212; 1233; 1252; 1269; 1288; 1307; 1326; 1346; 1366; 1384; 1406; 1426; 1449; 1482; 1501; 1519; 1557; 1576; 1605; 1631; 1653; 1673; 1693; 1713; 1730; 1750; 1777; 1796; 1819; 1841; 1870; 1906; 1930; 1952; 1973; 2016; 2047; 2065; 2089; 2112; 2129; 2153; 2171; 2205; 2224; 2244; 2265; 2282; 2335; 2353; 2370; 2395; 2414; 2431; 2448; 2479; 2503; 2524; 2542; 2572; 2596; 2618; 2639; 2656; 2678; 2712; 2741; 2770; 2812; 2895; 2933; 2957; 2980; 3009; 3053; 3075; 3107; 3143; 3160; 3181; 3218; 3238; 3255; 3272; 3307; 3325; 3343; 3360; 3384; 3406; 3433; 3461; 3487; 3525; 3546; 3563; 3581; 3604; 3625; 3653; 3676; 3697; 3715; 3736; 3753; 3776; 3800; 3820; 3838; 3860; 3891; 3913; 3939; 3958; 3975; 4003; 4022; 4041; 4059; 4077; 4098; 4120; 4144; 4177; 4197; 4215; 4236; 4262; 4289; 4306; 4323; 4340; 4366; 4388; 4410; 4428; 4448; 4467; 4489; 4527; 4547; 4571; 4591; 4611; 4638; 4662; 4695; 4714; 4742; 4764; 4793; 4821; 4846; 4865; 4884; 4905; 4922; 4939; 4970; 4997; 5017; 5040; 5060; 5097; 5114; 5133; 5159; 5179; 5218; 5245; 5264; 5282; 5319; 5337; 5378; 5396; 5422; 5439; 5471; 5500; 5528; 5549; 5572; 5591; 5612; 5630; 5647; 5665; 5691; 5712; 5732; 5752; 5770; 5791; 5817; 5834; 5853; 5872; 5901; 5920; 5938; 5957; 5975; 5993; 6016
MspR9I	CC!NGG	35	90; 283; 774; 784; 886; 907; 961; 1015; 1087; 1168; 1267; 1369; 1414; 1527; 1528; 1864; 1921; 2113; 2429; 2440; 2499; 2509; 3596; 3651; 3668; 4064; 4224; 4447; 4837; 5026; 5129; 5601; 5819; 5832; 5953
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	2810
MvaI	CC!WGG	29	90; 283; 774; 784; 886; 907; 961; 1015; 1087; 1168; 1267; 1369; 1414; 1864; 1921; 2113; 2429; 2440; 2499; 2509; 3596; 3651; 3668; 4447; 5026; 5129; 5819; 5832; 5953
Mva1269I	GAATGCN!	1	2811
Mva1269I	G!CATTC	1	2904
MvnI	CG!CG	18	60; 695; 932; 1250; 2948; 2984; 3360; 3380; 3404; 3435; 4126; 4427; 4865; 4949; 5012; 5081; 5354; 5935
MvrI	CGAT!CG	0	
MwoI	GCNNNN!NNGC	42	90; 212; 244; 283; 376; 400; 654; 695; 755; 768; 812; 1043; 1235; 1286; 1394; 1586; 2030; 2152; 2176; 2332; 2384; 2471; 2542; 3287; 3317; 3344; 3386; 3627; 3699; 3750; 3829; 4051; 4135; 4158; 4297; 4420; 4503; 4770; 4957; 5161; 5360; 5932
NaeI	GCC!GGC	4	633; 3279; 4562; 4845
NarI	GG!CGCC	1	4060
NciI	CC!SGG	6	1527; 1528; 4064; 4224; 4837; 5601
NcoI	C!CATGG	4	360; 2262; 3789; 4492
NdeI	CA!TATG	2	234; 2151
NdeII	!GATC	27	585; 650; 734; 1187; 1223; 1330; 1676; 2207; 2695; 2704; 2717; 3897; 3901; 3920; 4231; 4309; 4390; 4399; 4477; 4853; 4869; 5228; 5240; 5318; 5326; 5337; 5412
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	631; 3277; 4560; 4843
NheI	G!CTAGC	1	591
NlaIII	CATG!	26	304; 364; 609; 840; 870; 1260; 1305; 1800; 1947; 2188; 2266; 2277; 2469; 3490; 3630; 3702; 3793; 3934; 4279; 4465; 4496; 4522; 4878; 5262; 5982; 6033
NlaIV	GGN!NCC	23	467; 1179; 1550; 1581; 2076; 2117; 2309; 2377; 2426; 2697; 3215; 3236; 3248; 3439; 3600; 3672; 4061; 4096; 4944; 5023; 5068; 5911; 5950
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	5	1638; 2073; 2892; 3207; 4799
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 5871
Nii3877I	CYCGR!G	5	833; 875; 1338; 1530; 1653
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3849; 4285
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	3814
NmeDI	RCCGGYNNNNNN!	7	643; 766; 1738; 3289; 4391; 4572; 4855
NmeDI	!NNNNNNNNNNNNRCCGGY	7	618; 741; 1713; 3264; 4366; 4547; 4830

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmuCI	!GTSAC	7	786; 1450; 2251; 2299; 3349; 4180; 4486
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4162
NsiI	ATGCA!T	3	3632; 3704; 6035
NspI	RCATG!Y	5	2469; 3630; 3702; 4465; 5982
NspV	TT!CGAA	1	4742
OliI	CACNN!NNGTG	3	784; 961; 2422
PabI	GTA!C	14	220; 245; 300; 333; 384; 541; 923; 1034; 1058; 1316; 2294; 2451; 2561; 4367
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	2469; 3630; 3702; 4465
PaeR7I	C!TCGAG	1	1334
PagI	T!CATGA	2	3486; 5258
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1167; 5025; 5128
PauI	G!CGCGC	0	
PceI	AGG!CCT	2	2497; 3881
PciI	A!CATGT	1	5978
PciSI	GCTCTTCN!	1	1600
PciSI	!NNNNGAAGAGC	2	4404; 4614
PcsI	WCGNNNN!NNNCGW	9	635; 1247; 1304; 4354; 4431; 4674; 4748; 5141; 5659
PctI	GAATGCN!	1	2811
PctI	G!CATTC	1	2904
PdiI	GCC!GGC	4	633; 3279; 4562; 4845
PdmI	GAANN!NNTTC	2	850; 1773
PfeI	G!AWTC	6	2650; 4545; 4679; 4789; 4826; 6004
Pfi23II	C!GTACG	0	
PfifI	GACN!NNGTC	1	4178
PfIMI	CCANNNN!NTGG	3	1026; 1302; 2367
PfoI	T!CCNGGA	4	884; 905; 1265; 4835
PhoI	GG!CC	34	84; 277; 677; 777; 1019; 1075; 1085; 1141; 1178; 1246; 1367; 1439; 1960; 2146; 2443; 2497; 2599; 3026; 3168; 3823; 3829; 3838; 3881; 3968; 4142; 4533; 4560; 5069; 5126; 5159; 5504; 5938; 5956; 5967
PinAI	A!CCGGT	1	1726
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	4441
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	2507; 4006; 4261
PleI	GAGTCNNNN!	3	1278; 3111; 3543
PleI	!NNNNNGACTC	6	404; 1319; 1471; 3119; 4725; 5602
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	1521
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	1	1521
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	3142
PpiI	!NNNNNNNNNGAGNNNNNGTTC	4	610; 724; 928; 5272
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	4	642; 756; 960; 5304
PpiI	!NNNNNNNGAACNNNNNNCTC	1	3110
Ppsi	GAGTCNNNN!	3	1278; 3111; 3543
Ppsi	!NNNNNGACTC	6	404; 1319; 1471; 3119; 4725; 5602
Ppu10I	A!TGCAT	3	3628; 3700; 6031
Ppu21I	YAC!GTR	5	340; 1521; 2562; 3176; 4364
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	5978
PshAI	GACNN!NNGTC	1	1973
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2843; 3048
Psp03I	GGWC!C	6	1236; 1322; 1698; 2514; 4579; 5024
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	29	88; 281; 772; 782; 884; 905; 959; 1013; 1085; 1166; 1265; 1367; 1412; 1862; 1919; 2111; 2427; 2438; 2497; 2507; 3594; 3649; 3666; 4445; 5024; 5127; 5817; 5830; 5951
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1406
PspCI	CAC!GTG	1	1521

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspEI	G!GTNACC	1	786
PspGI	!CCWGG	29	88; 281; 772; 782; 884; 905; 959; 1013; 1085; 1166; 1265; 1367; 1412; 1862; 1919; 2111; 2427; 2438; 2497; 2507; 3594; 3649; 3666; 4445; 5024; 5127; 5817; 5830; 5951
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	23	467; 1179; 1550; 1581; 2076; 2117; 2309; 2377; 2426; 2697; 3215; 3236; 3248; 3439; 3600; 3672; 4061; 4096; 4944; 5023; 5068; 5911; 5950
PspOMI	G!GGCCC	0	
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	4	125; 2025; 3790; 4789
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	2	1149; 4192
PspPI	G!GNCC	17	83; 276; 776; 1017; 1177; 1233; 1245; 1319; 1695; 2511; 2598; 3167; 4576; 5021; 5067; 5125; 5158
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	4	1881; 3613; 3685; 5191
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	3	2478; 3526; 4721
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	5161
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	3	1283; 5161; 5569
PsuI	R!GATCY	11	585; 1330; 2695; 2704; 4231; 4477; 4869; 5228; 5240; 5326; 5337
PsyI	GACN!NNGTC	1	4178
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	4	1137; 1876; 3558; 4166
RcaI	T!CATGA	2	3486; 5258
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4575
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	3	1569; 1927; 2789
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	14	219; 244; 299; 332; 383; 540; 922; 1033; 1057; 1315; 2293; 2450; 2560; 4366
RsaNI	G!TAC	14	218; 243; 298; 331; 382; 539; 921; 1032; 1056; 1314; 2292; 2449; 2559; 4365
RseI	CAYNN!NNRTG	6	365; 784; 841; 961; 2422; 4497
RsrII	CG!GWCCG	1	4576
Rsr2I	CG!GWCCG	1	4576
SacI	GAGCT!C	1	1406
SacII	CCGC!GG	1	933
SalI	G!TCGAC	0	
SapI	GCTCTCN!	1	1600
SapI	!NNNNGAAGAGC	2	4404; 4614
SaqAI	T!TAA	16	7; 2018; 2761; 2822; 2943; 2964; 2975; 2987; 2998; 3015; 3113; 3384; 5203; 5217; 5222; 5274
SatI	GC!NGC	41	696; 763; 933; 1125; 1128; 1135; 1287; 1609; 1634; 2283; 2327; 2355; 2615; 2837; 3356; 3378; 3392; 3830; 3969; 4021; 4032; 4122; 4127; 4164; 4205; 4292; 4295; 4298; 4534; 4630; 4671; 4685; 4799; 5138; 5153; 5364; 5570; 5573; 5638; 5781; 5936
Sau96I	G!GNCC	17	83; 276; 776; 1017; 1177; 1233; 1245; 1319; 1695; 2511; 2598; 3167; 4576; 5021; 5067; 5125; 5158
Sau3AI	!GATC	27	585; 650; 734; 1187; 1223; 1330; 1676; 2207; 2695; 2704; 2717; 3897; 3901; 3920; 4231; 4309; 4390; 4399; 4477; 4853; 4869; 5228; 5240; 5318; 5326; 5337; 5412
SbfI	CCTGCA!GG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	1279; 3112; 3544
SchI	!NNNNNGACTC	6	404; 1319; 1471; 3119; 4725; 5602
SciI	CTC!GAG	1	1336
ScrFI	CC!NGG	35	90; 283; 774; 784; 886; 907; 961; 1015; 1087; 1168; 1267; 1369; 1414; 1527; 1528; 1864; 1921; 2113; 2429; 2440; 2499; 2509; 3596; 3651; 3668; 4064; 4224; 4447; 4837; 5026; 5129; 5601; 5819; 5832; 5953
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	912; 3638; 3710; 3879; 5821
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	1244; 4215; 4700
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	25	644; 674; 773; 836; 1166; 1213; 1265; 1406; 1526; 1658; 1726; 1889; 1928; 2079; 2120; 2380; 2505; 3251; 4006; 4099; 4173; 4363; 4425; 5135; 5668
SelI	!CGCG	18	58; 693; 930; 1248; 2946; 2982; 3358; 3378; 3402; 3433; 4124; 4425; 4863; 4947; 5010; 5079; 5352; 5933
SetI	ASST!	93	125; 137; 178; 261; 308; 342; 447; 552; 568; 626; 659; 671; 731; 764; 941; 980; 1028; 1039; 1055; 1139; 1163; 1208; 1313; 1321; 1364; 1406; 1492; 1523; 1585; 1595; 1613; 1688; 1712; 1759; 1789; 1806; 1838; 1868; 1878; 1988; 2008; 2018; 2093; 2114; 2195; 2306; 2396; 2441; 2450; 2460; 2528; 2564; 2642; 2750; 2771; 2780; 2792; 2841; 3008; 3123; 3135; 3178; 3215; 3265; 3288; 3412; 3560; 3655; 3848; 3961; 4089; 4168; 4179; 4251; 4322; 4366; 4626; 4772; 4816; 5147; 5178; 5237; 5280; 5423; 5444; 5543; 5680; 5695; 5714; 5726; 5770; 5816; 5867
SexAI	A!CCWGGT	2	2111; 3649
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	14	644; 815; 980; 1358; 1433; 2138; 2366; 2408; 2876; 3639; 3711; 4359; 4423; 4698
SfaNI	!NNNNNNNNNGATGC	7	357; 1433; 1620; 4018; 4273; 4489; 5881
SfcI	C!TRYAG	5	1877; 2198; 3395; 5522; 5713
SfiI	GGCCNNNN!NGGCC	1	3835
SfoI	GGC!GCC	1	4061
Sfr274I	C!TCGAG	1	1334
Sfr303I	CCGC!GG	1	933
SfuI	TT!CGAA	1	4742
SgeI	CNNGNNNNNNNN!	248	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 618; 644; 657; 670; 685; 702; 717; 738; 767; 780; 795; 822; 841; 870; 883; 897; 912; 930; 943; 960; 973; 987; 1008; 1026; 1039; 1065; 1078; 1098; 1113; 1131; 1150; 1164; 1179; 1192; 1218; 1233; 1254; 1269; 1295; 1309; 1329; 1346; 1372; 1385; 1406; 1425; 1440; 1460; 1517; 1531; 1557; 1589; 1602; 1615; 1631; 1661; 1683; 1699; 1719; 1739; 1755; 1784; 1803; 1836; 1849; 1867; 1932; 1956; 1999; 2046; 2073; 2091; 2115; 2138; 2155; 2170; 2197; 2231; 2250; 2270; 2286; 2308; 2361; 2396; 2421; 2440; 2457; 2478; 2510; 2529; 2550; 2568; 2598; 2612; 2632; 2714; 2767; 2796; 2838; 2921; 2959; 2995; 3079; 3101; 3133; 3170; 3188; 3207; 3222; 3264; 3281; 3298; 3333; 3347; 3364; 3386; 3410; 3434; 3499; 3513; 3551; 3567; 3607; 3620; 3639; 3662; 3679; 3692; 3711; 3741; 3762; 3779; 3802; 3837; 3864; 3895; 3917; 3943; 3965; 3984; 4012; 4048; 4067; 4090; 4104; 4124; 4137; 4151; 4170; 4184; 4203; 4235; 4249; 4262; 4288; 4319; 4332; 4349; 4366; 4380; 4397; 4415; 4430; 4458; 4474; 4493; 4515; 4531; 4554; 4573; 4598; 4617; 4637; 4664; 4688; 4721; 4740; 4768; 4782; 4848; 4872; 4887; 4910; 4931; 4948; 4996; 5023; 5037; 5066; 5090; 5123; 5140; 5160; 5173; 5186; 5244; 5271; 5290; 5320; 5345; 5365; 5379; 5404; 5422; 5459; 5497; 5526; 5554; 5568; 5588; 5603; 5624; 5638; 5657; 5675; 5691; 5731; 5751; 5778; 5796; 5817; 5830; 5843; 5860; 5884; 5907; 5939; 5964; 5991; 6013

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	214	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 618; 640; 659; 676; 712; 741; 759; 796; 815; 844; 871; 892; 910; 934; 961; 982; 1000; 1039; 1057; 1087; 1105; 1124; 1147; 1166; 1192; 1216; 1233; 1252; 1269; 1288; 1308; 1328; 1346; 1366; 1384; 1406; 1426; 1491; 1512; 1531; 1563; 1589; 1609; 1635; 1657; 1693; 1713; 1758; 1777; 1810; 1841; 1906; 1930; 1973; 2020; 2047; 2065; 2089; 2112; 2129; 2171; 2205; 2224; 2244; 2265; 2282; 2335; 2370; 2395; 2414; 2431; 2452; 2484; 2503; 2524; 2542; 2572; 2606; 2688; 2741; 2770; 2812; 2895; 2933; 2969; 3053; 3075; 3107; 3144; 3162; 3181; 3238; 3255; 3272; 3307; 3325; 3345; 3365; 3384; 3408; 3473; 3525; 3581; 3613; 3636; 3653; 3685; 3715; 3736; 3753; 3776; 3811; 3838; 3869; 3891; 3917; 3939; 3958; 3986; 4022; 4041; 4064; 4085; 4103; 4120; 4144; 4177; 4209; 4236; 4262; 4293; 4323; 4340; 4366; 4389; 4410; 4432; 4452; 4472; 4489; 4528; 4547; 4572; 4591; 4611; 4638; 4662; 4695; 4714; 4742; 4764; 4822; 4846; 4865; 4884; 4905; 4922; 4970; 4997; 5017; 5040; 5064; 5097; 5114; 5134; 5160; 5218; 5245; 5264; 5294; 5319; 5339; 5378; 5396; 5433; 5471; 5500; 5528; 5549; 5577; 5598; 5631; 5649; 5705; 5725; 5752; 5770; 5791; 5817; 5834; 5858; 5881; 5913; 5938; 5965; 5987; 6016
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	933
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 3207; 4994; 5787
SimI	!GACCC	7	106; 926; 1103; 2253; 4488; 5056; 5304
SinI	G!GWCC	6	1233; 1319; 1695; 2511; 4576; 5021
SlaI	C!TCGAG	1	1334
SmaI	CCC!GGG	1	1528
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	6	365; 784; 841; 961; 2422; 4497
SmlI	C!TYRAG	6	1334; 2620; 4451; 5333; 5610; 5872
SmoI	C!TYRAG	6	1334; 2620; 4451; 5333; 5610; 5872
SmuI	CCCGCNNNN!	13	93; 119; 286; 829; 937; 1114; 1255; 2134; 3382; 3737; 3758; 4954; 5086
SmuI	!NNNNNNGCGGG	6	604; 3313; 4183; 4720; 4858; 5005
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	2469; 3630; 3702; 4465
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	12	18; 1700; 2098; 2810; 2874; 2952; 2978; 2989; 3636; 3708; 3800; 5218
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	2	2497; 3881
SsiI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 822; 930; 969; 1062; 1107; 1236; 1248; 1587; 2022; 2127; 3375; 3378; 3392; 3482; 3730; 3742; 3751; 3763; 3773; 3784; 3830; 3969; 4032; 4534; 4579; 4645; 4671; 4796; 4799; 4947; 5079; 5386; 5530; 6026
SsiI	G!CGG	29	370; 403; 528; 595; 611; 695; 932; 1124; 1127; 3320; 3347; 3435; 3545; 4126; 4190; 4291; 4294; 4574; 4629; 4727; 4865; 5012; 5152; 5395; 5640; 5761; 5780; 5907; 5935
SspI	AAT!ATT	2	2968; 3521
SspDI	G!GCGCC	1	4059
SspD5I	GGTGANNNNNNN!	10	376; 798; 951; 975; 2256; 2311; 2578; 2680; 5131; 5247
SspD5I	!NNNNNNNNTCACC	5	1775; 1895; 2201; 3176; 4237
SstI	GAGCT!C	1	1406
SstII	CCGC!GG	1	933
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	30	92; 118; 285; 650; 773; 828; 836; 878; 936; 1073; 1113; 1187; 1254; 1439; 1533; 1656; 2133; 2607; 3259; 3381; 3736; 3757; 4070; 4473; 4612; 4683; 4953; 5085; 5315; 5753
Sth132I	!NNNNNNNNCGGG	21	15; 407; 470; 603; 1496; 1519; 3260; 3312; 3413; 4140; 4182; 4215; 4719; 4828; 4857; 5004; 5108; 5139; 5592; 5636; 5844

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sth302II	CC!GG	22	633; 756; 1323; 1528; 1728; 2703; 3279; 3966; 4043; 4065; 4093; 4224; 4314; 4381; 4562; 4837; 4845; 4937; 5411; 5601; 5627; 5774
StrI	C!TCGAG	1	1334
StsI	GGATGNNNNNNNNNN!	5	2587; 3928; 4385; 4410; 4864
StsI	!NNNNNNNNNNNNNNCATCC	10	792; 867; 996; 1044; 1341; 1410; 1884; 2115; 2343; 3732
StuI	AGG!CCT	2	2497; 3881
StyI	C!CWWGG	7	360; 2262; 2444; 3789; 3882; 4492; 4897
StyD4I	!CCNGG	35	88; 281; 772; 782; 884; 905; 959; 1013; 1085; 1166; 1265; 1367; 1412; 1525; 1526; 1862; 1919; 2111; 2427; 2438; 2497; 2507; 3594; 3649; 3666; 4062; 4222; 4445; 4835; 5024; 5127; 5599; 5817; 5830; 5951
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 1557; 2296; 2421; 3151; 4440; 4556; 4664; 4987; 5478; 5948; 6019
TaiI	ACGT!	22	125; 137; 178; 261; 342; 447; 671; 1055; 1163; 1364; 1523; 1806; 2306; 2564; 3123; 3135; 3178; 3288; 4179; 4366; 5147; 5280
TaqI	T!CGA	18	653; 947; 974; 1118; 1335; 1988; 1994; 3209; 3900; 4173; 4329; 4353; 4389; 4551; 4742; 4787; 5042; 5880
TaqII	GACCGANNNNNNNNNN!	4	1712; 3080; 4097; 4765
TaqII	!NNNNNNNNNTCGGTC	1	5009
TaqII	CACCCANNNNNNNNNN!	2	1309; 1924
TaqII	!NNNNNNNNNTGGGTG	4	172; 2554; 3964; 4556
TasI	!AATT	12	18; 1700; 2098; 2810; 2874; 2952; 2978; 2989; 3636; 3708; 3800; 5218
TatI	W!GTACW	8	217; 297; 330; 381; 920; 1031; 1055; 1313
TauI	GCSG!C	19	698; 935; 1127; 1130; 3380; 3394; 3832; 3971; 4034; 4129; 4294; 4297; 4536; 4632; 4673; 4801; 5155; 5783; 5938
TfiI	G!AWTC	6	2650; 4545; 4679; 4789; 4826; 6004
TliI	C!TCGAG	1	1334
TruII	T!TAA	16	7; 2018; 2761; 2822; 2943; 2964; 2975; 2987; 2998; 3015; 3113; 3384; 5203; 5217; 5222; 5274
Tru9I	T!TAA	16	7; 2018; 2761; 2822; 2943; 2964; 2975; 2987; 2998; 3015; 3113; 3384; 5203; 5217; 5222; 5274
TscAI	CASTGNN!	13	817; 1503; 1581; 1726; 2058; 2388; 2424; 2560; 2906; 4189; 5299; 5570; 5583
TseI	G!CWGC	22	762; 1134; 1286; 1608; 1633; 2282; 2326; 2354; 2614; 2836; 3355; 4020; 4121; 4163; 4204; 4297; 4684; 5137; 5363; 5569; 5572; 5637
TsoI	TARCCANNNNNNNNNN!	3	2047; 3032; 3379
TsoI	!NNNNNNNNNTGGYTA	2	2837; 4589
Tsp45I	!GTSAC	7	786; 1450; 2251; 2299; 3349; 4180; 4486
Tsp509I	!AATT	12	18; 1700; 2098; 2810; 2874; 2952; 2978; 2989; 3636; 3708; 3800; 5218
TspDTI	ATGAANNNNNNNNNN!	6	853; 1580; 2201; 2818; 4119; 4823
TspDTI	!NNNNNNNNNTTCAT	6	26; 732; 1932; 4537; 4993; 5200
TspEI	!AATT	12	18; 1700; 2098; 2810; 2874; 2952; 2978; 2989; 3636; 3708; 3800; 5218
TspGWI	ACGGANNNNNNNNNN!	1	4935
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1526
TspRI	CASTGNN!	13	817; 1503; 1581; 1726; 2058; 2388; 2424; 2560; 2906; 4189; 5299; 5570; 5583
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	4178
Tth111II	CAARCANNNNNNNNNN!	2	1531; 5387
Tth111II	!NNNNNNNNNTGYTTG	5	1525; 2207; 4495; 5355; 5394
UnbI	!GGNCC	17	82; 275; 775; 1016; 1176; 1232; 1244; 1318; 1694; 2510; 2597; 3166; 4575; 5020; 5066; 5124; 5157
Van91I	CCANNNN!NTGG	3	1026; 1302; 2367
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	3	670; 1722; 5664
VpaK11AI	!GGWCC	6	1232; 1318; 1694; 2510; 4575; 5020

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
VpaK11BI	G!GWCC	6	1233; 1319; 1695; 2511; 4576; 5021
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	2	2443; 2623
XapI	R!AATTY	5	1700; 2098; 2874; 2978; 2989
XbaI	T!CTAGA	1	2707
XceI	RCATG!Y	5	2469; 3630; 3702; 4465; 5982
XcmI	CCANNNNN!NNNNTGG	3	1083; 1164; 1759
XhoI	C!TCGAG	1	1334
XhoII	R!GATCY	11	585; 1330; 2695; 2704; 4231; 4477; 4869; 5228; 5240; 5326; 5337
XmaI	C!CCGGG	1	1526
XmaJI	C!CTAGG	2	3882; 4897
XmiI	GT!MKAC	2	1541; 1949
XmnI	GAANN!NNTTC	2	850; 1773
XspI	C!TAG	8	592; 2708; 2909; 3327; 3883; 4898; 5232; 5485
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3632; 3704; 6035