

pTagYFP-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	2852; 3057
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	3140; 4096; 5885
AatI	AGG!CCT	2	2506; 3890
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	3	1064; 1550; 1958
AccII	CG!CG	18	60; 704; 941; 1259; 2957; 2993; 3369; 3389; 3413; 3444; 4135; 4436; 4874; 4958; 5021; 5090; 5363; 5944
AccIII	T!CCGGA	1	1330
Acc16I	TGC!GCA	1	4171
Acc36I	ACCTGCNNNN!	2	4337; 4787
Acc36I	!NNNNNNNNGCAGGT	1	3956
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	8	465; 1588; 2124; 2384; 2433; 3222; 4068; 4103
AccB7I	CCANNNN!NTGG	3	1035; 1311; 2376
AccBSI	CCG!CTC	3	1328; 3493; 4682
AccBSI	GAG!CGG	2	3329; 4736
AceIII	CAGCTCNNNNNNN!	3	1612; 1630; 3025
AceIII	!NNNNNNNNNNGAGCTG	6	552; 619; 652; 973; 1306; 2453
AciI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 831; 939; 978; 1116; 1245; 1257; 1326; 1596; 2031; 2136; 3384; 3387; 3401; 3491; 3739; 3751; 3760; 3772; 3782; 3793; 3839; 3978; 4041; 4543; 4588; 4654; 4680; 4805; 4808; 4956; 5088; 5395; 5539; 6035
AciI	G!CGG	27	370; 403; 528; 704; 941; 1133; 1136; 3329; 3356; 3444; 3554; 4135; 4199; 4300; 4303; 4583; 4638; 4736; 4874; 5021; 5161; 5404; 5649; 5770; 5789; 5916; 5944
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	2712; 2721; 3937; 4248; 4494; 4886; 5245; 5343; 5429
AclWI	!NNNNNGATCC	7	580; 1191; 2699; 4313; 4857; 5244; 5341
AcoI	Y!GGCCR	10	684; 1148; 1374; 1446; 2153; 2450; 3975; 4149; 4540; 4567
AcsI	R!AATTY	5	1709; 2107; 2883; 2987; 2998
AcuI	CTGAAGNNNNNNNNNNNNNNN!	3	1009; 4215; 4647
AcuI	!NNNNNNNNNNNNNNCTTCAG	3	1488; 1726; 5445
AcvI	CAC!GTG	1	1530
AcyI	GR!CGYC	8	122; 175; 258; 444; 722; 4069; 4771; 4850
AdeI	CACNNN!GTG	2	1269; 3185
AfaI	GT!AC	14	219; 244; 299; 332; 383; 540; 818; 931; 1042; 1324; 2302; 2459; 2569; 4375
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	28	49; 782; 945; 1035; 1080; 1251; 1311; 1701; 1806; 2272; 2376; 2454; 2634; 3081; 3407; 3799; 4050; 4594; 4875; 4907; 5039; 5074; 5124; 5156; 5509; 5788; 5954; 5972
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	2	2955; 5987
AgeI	A!CCGGT	2	600; 1735
AgsI	TTT!AA	12	867; 1005; 1050; 1110; 1494; 2400; 2668; 3480; 3524; 3534; 3947; 5523
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	2	678; 2313
AjnI	!CCWGG	28	88; 281; 781; 791; 893; 968; 1022; 1094; 1175; 1274; 1376; 1421; 1871; 1928; 2120; 2436; 2447; 2506; 2516; 3603; 3658; 3675; 4454; 5033; 5136; 5826; 5839; 5960
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNCCAANNNNNNTTC	1	1834
AjuI	CCAANNNNNNTTCNNNNNNNNNNNN!	1	1866
AjuI	!NNNNNNNGAANNNNNNTTGG	0	
AleI	CACNN!NNGTG	3	793; 970; 2431
AlfI	GCANNNNTTGCNNNNNNNNNNNN!	3	1546; 3643; 3715
AlfI	!NNNNNNNNNGCANNNNNTGTC	3	1512; 3609; 3681
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	2	1450; 3151
AloI	!NNNNNNNGGANNNNNNGTTC	1	733
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	1	765
AloI	!NNNNNNNGAACNNNNNTCC	2	1418; 3119
AluI	AG!CT	31	566; 633; 666; 738; 771; 987; 1035; 1046; 1146; 1220; 1320; 1413; 1602; 1620; 1719; 1766; 1845; 1885; 2202; 2467; 2848; 3015; 3272; 3567; 3855; 4175; 4633; 5430; 5687; 5733; 5823
AluBI	AG!CT	31	566; 633; 666; 738; 771; 987; 1035; 1046; 1146; 1220; 1320; 1413; 1602; 1620; 1719; 1766; 1845; 1885; 2202; 2467; 2848; 3015; 3272; 3567; 3855; 4175; 4633; 5430; 5687; 5733; 5823
AlwI	GGATCNNNN!	9	2712; 2721; 3937; 4248; 4494; 4886; 5245; 5343; 5429
AlwI	!NNNNNGATCC	7	580; 1191; 2699; 4313; 4857; 5244; 5341
Alw21I	GWGCW!C	8	683; 1274; 1415; 1735; 1937; 4182; 4372; 5677
Alw26I	GTCTCN!	2	434; 1819
Alw26I	!NNNNNGAGAC	6	1504; 2438; 3493; 3911; 4930; 5058
Alw44I	G!TGCAC	3	679; 1731; 5673
AlwNI	CAGNNN!CTG	3	1292; 5170; 5578
Ama87I	C!YCGRG	4	880; 1343; 1535; 1658
Aor13HI	T!CCGGA	1	1330
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	4	1404; 3637; 3709; 5171
ApaLI	G!TGCAC	3	679; 1731; 5673
ApeKI	G!CWGC	22	771; 1143; 1295; 1617; 1642; 2291; 2335; 2363; 2623; 2845; 3364; 4029; 4130; 4172; 4213; 4306; 4693; 5146; 5372; 5578; 5581; 5646
ApoI	R!AATY	5	1709; 2107; 2883; 2987; 2998
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4584
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4378; 5031; 5869
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	4468
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	4	653; 1503; 2669; 3897
AquIII	!NNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	2	2612; 2705
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	4639
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	1	2544
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNNGACNNNNNTTYG	1	2512
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	26	586; 660; 744; 1197; 1340; 1686; 2217; 2705; 2714; 2727; 3907; 3911; 3930; 4241; 4319; 4400; 4409; 4487; 4863; 4879; 5238; 5250; 5328; 5336; 5347; 5422
AsiGI	A!CCGGT	2	600; 1735
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4187
Asp700I	GAANN!NNTTC	2	859; 1782
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3891; 4906
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	28	597; 704; 874; 902; 1291; 1519; 2009; 2363; 3335; 3343; 3369; 3391; 3400; 3413; 3444; 4063; 4071; 4135; 4172; 4438; 4698; 4874; 4960; 5363; 5472; 5646; 5746; 5813
AspS9I	G!GNCC	16	83; 276; 785; 1026; 1186; 1242; 1254; 1704; 2520; 2607; 3176; 4585; 5030; 5076; 5134; 5167
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	4751
AsuC2I	CC!SGG	6	1536; 1537; 4073; 4233; 4846; 5610
AsuHPI	GGTGANNNNNNN!	11	376; 807; 960; 984; 1113; 2265; 2320; 2587; 2689; 5140; 5256

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AsuHPI	!NNNNNNNTCACC	7	798; 1062; 1785; 1905; 2211; 3186; 4247
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	880; 1343; 1535; 1658
AvaII	G!GWCC	5	1242; 1704; 2520; 4585; 5030
AviII	TGC!GCA	1	4171
AvrII	C!CTAGG	2	3891; 4906
AxyI	CC!TNAGG	2	3549; 5181
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNGT	1	2559
BaeI	GRTACNNNGTNNNNNNNNNNNN!	1	2592
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	12	653; 683; 782; 1175; 1535; 1667; 1735; 2129; 2389; 4015; 4108; 5677
BalI	TGG!CCA	5	1376; 1448; 2155; 2452; 4151
BamHI	G!GATCC	1	2704
BanI	G!GYRCC	8	465; 1588; 2124; 2384; 2433; 3222; 4068; 4103
BanII	GRGCY!C	7	1415; 1898; 2088; 2514; 3260; 4434; 5144
BanIII	AT!CGAT	1	3909
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	3	1035; 1311; 2376
BauI	C!ACGAG	2	4787; 5814
BauI	C!TCGTG	1	4661
BbeI	GGCGC!C	1	4072
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNGTCTTC	1	1727
BbrPI	CAC!GTG	1	1530
BbsI	GAAGACNN!	0	
BbsI	!NNNNNGTCTTC	1	1732
BbuI	GCATG!C	4	2478; 3639; 3711; 4474
BbvI	GCAGCNNNNNNNN!	10	1155; 1307; 1629; 2375; 2857; 4142; 4184; 4705; 5158; 5658
BbvI	!NNNNNNNNNNNGCTGC	11	758; 1629; 2278; 2322; 2610; 3351; 4016; 4200; 4293; 5359; 5565
Bbv12I	GWGCW!C	8	683; 1274; 1415; 1735; 1937; 4182; 4372; 5677
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	1	2501
BccI	CCATCNNNN!	11	913; 1210; 1372; 1915; 1978; 2065; 2356; 3199; 3763; 4289; 4791
BccI	!NNNNNGATGG	7	1438; 2074; 2244; 2577; 3167; 3947; 4375
BceAI	ACGGCNNNNNNNNNN!	11	687; 747; 828; 939; 1029; 1107; 1200; 1323; 1446; 4495; 4982
BceAI	!NNNNNNNNNNNGCCGT	3	3210; 4028; 5487
Bcefl	ACGGCNNNNNNNNNN!	11	687; 747; 828; 939; 1029; 1107; 1200; 1323; 1446; 4495; 4982
Bcefl	!NNNNNNNNNNNGCCGT	3	3211; 4029; 5488
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3498; 4288; 5789
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2726
BcnI	CC!SGG	6	1536; 1537; 4073; 4233; 4846; 5610
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	4	820; 1219; 2749; 5922
BdaI	!NNNNNNNNNTGANNNNNNTCA	4	786; 1185; 2715; 5888
BfaI	C!TAG	8	592; 2717; 2918; 3336; 3892; 4907; 5241; 5494
BfiI	ACTGGGNNNNN!	1	4018
BfiI	!NNNCCCAGT	2	289; 3770
BfmI	C!TRYAG	6	1293; 1886; 2207; 3404; 5531; 5722
BfoI	RGCG!Y	9	598; 875; 1292; 1520; 2010; 3336; 3344; 4072; 5747
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	3498; 4288; 5789
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4337; 4787

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BfuAI	!NNNNNNNNGCAGGT	1	3956
BfuCI	!GATC	26	585; 659; 743; 1196; 1339; 1685; 2216; 2704; 2713; 2726; 3906; 3910; 3929; 4240; 4318; 4399; 4408; 4486; 4862; 4878; 5237; 5249; 5327; 5335; 5346; 5421
BglI	GCCNNNN!NGGC	5	90; 212; 283; 2393; 3844
BglII	A!GATCT	1	1339
BisI	GC!NGC	41	705; 772; 942; 1134; 1137; 1144; 1296; 1618; 1643; 2292; 2336; 2364; 2624; 2846; 3365; 3387; 3401; 3839; 3978; 4030; 4041; 4131; 4136; 4173; 4214; 4301; 4304; 4307; 4543; 4639; 4680; 4694; 4808; 5147; 5162; 5373; 5579; 5582; 5647; 5790; 5945
BlnI	C!CTAGG	2	3891; 4906
BlpI	GC!TNAGC	1	2479
BlsI	GCN!GC	41	706; 773; 943; 1135; 1138; 1145; 1297; 1619; 1644; 2293; 2337; 2365; 2625; 2847; 3366; 3388; 3402; 3840; 3979; 4031; 4042; 4132; 4137; 4174; 4215; 4302; 4305; 4308; 4544; 4640; 4681; 4695; 4809; 5148; 5163; 5374; 5580; 5583; 5648; 5791; 5946
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	5	1242; 1704; 2520; 4585; 5030
Bme1390I	CC!NGG	34	90; 283; 783; 793; 895; 970; 1024; 1096; 1177; 1276; 1378; 1423; 1536; 1537; 1873; 1930; 2122; 2438; 2449; 2508; 2518; 3605; 3660; 3677; 4073; 4233; 4456; 4846; 5035; 5138; 5610; 5828; 5841; 5962
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	880; 1343; 1535; 1658
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	2	678; 2313
BmgT120I	GG!NCC	16	84; 277; 786; 1027; 1187; 1243; 1255; 1705; 2521; 2608; 3177; 4586; 5031; 5077; 5135; 5168
BmiI	GGN!NCC	23	467; 1188; 1559; 1590; 2085; 2126; 2318; 2386; 2435; 2706; 3224; 3245; 3257; 3448; 3609; 3681; 4070; 4105; 4953; 5032; 5077; 5920; 5959
BmrI	ACTGGGNNNNN!	1	4018
BmrI	!NNNNCCCAGT	2	289; 3770
BmrFI	CC!NGG	34	90; 283; 783; 793; 895; 970; 1024; 1096; 1177; 1276; 1378; 1423; 1536; 1537; 1873; 1930; 2122; 2438; 2449; 2508; 2518; 3605; 3660; 3677; 4073; 4233; 4456; 4846; 5035; 5138; 5610; 5828; 5841; 5962
BmsI	GCATCNNNNN!	13	653; 989; 1367; 1442; 2147; 2375; 2417; 2885; 3648; 3720; 4368; 4432; 4707
BmsI	!NNNNNNNNGATGC	7	357; 1442; 1629; 4027; 4282; 4498; 5890
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	4018
BmuI	!NNNNCCCAGT	2	289; 3770
BoxI	GACNN!NNGTC	1	1982
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	1	1732
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	3	1377; 3858; 4757
BpI	!NNNNNNNNGAGNNNNNCTC	3	1345; 3826; 4725
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	7	760; 1057; 1117; 1297; 1867; 1951; 4909
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	4852
Bpu10I	CC!TNAGC	2	1216; 1613
Bpu10I	GC!TNAGG	1	2501
Bpu14I	TT!CGAA	1	4751
Bpu1102I	GC!TNAGC	1	2479
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	1	1732
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	2650; 5363; 5902
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	2	4445; 5604
BpuMI	CC!SGG	6	1536; 1537; 4073; 4233; 4846; 5610
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	2438; 5058
Bsa29I	AT!CGAT	1	3909
BsaAI	YAC!GTR	5	340; 1530; 2571; 3185; 4373
BsaBI	GATNN!NNATC	3	1201; 2731; 3928

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BsaHI	GR!CGYC	8	122; 175; 258; 444; 722; 4069; 4771; 4850
BsaJI	C!CNNGG	33	360; 611; 781; 791; 881; 939; 968; 1023; 1175; 1176; 1305; 1534; 1659; 1871; 1928; 2271; 2304; 2453; 2507; 3603; 3675; 3798; 3833; 3842; 3891; 4232; 4501; 4906; 5033; 5034; 5136; 5137; 5827
BsaMI	GAATGCN!	1	2820
BsaMI	G!CATTC	1	2913
BsaWI	W!CCGGW	8	600; 1330; 1735; 2710; 4100; 4944; 5634; 5781
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	3149
BsaXI	!NNNNNNNGGAGNNNNNGT	1	733
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	763
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	3119
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	2	1520; 2510
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	3	1679; 3070; 4977
Bsc4I	CCNNNNN!NNGG	28	49; 782; 945; 1035; 1080; 1251; 1311; 1701; 1806; 2272; 2376; 2454; 2634; 3081; 3407; 3799; 4050; 4594; 4875; 4907; 5039; 5074; 5124; 5156; 5509; 5788; 5954; 5972
BscAI	GCATCNNNN!	13	652; 988; 1366; 1441; 2146; 2374; 2416; 2884; 3647; 3719; 4367; 4431; 4706
BscAI	!NNNNNNGATGC	7	360; 1445; 1632; 4030; 4285; 4501; 5893
Bse1I	ACTGGN!	7	1590; 1785; 2397; 2569; 4013; 4214; 5460
Bse1I	C!CAGT	7	295; 1728; 2370; 3098; 3776; 5572; 5585
Bse8I	GATNN!NNATC	3	1201; 2731; 3928
Bse21I	CC!TNAGG	2	3549; 5181
Bse118I	R!CCGGY	8	600; 640; 763; 1735; 3286; 4388; 4569; 4852
BseAI	T!CCGGA	1	1330
BseBI	CC!WGG	28	90; 283; 783; 793; 895; 970; 1024; 1096; 1177; 1276; 1378; 1423; 1873; 1930; 2122; 2438; 2449; 2508; 2518; 3605; 3660; 3677; 4456; 5035; 5138; 5828; 5841; 5962
BseCI	AT!CGAT	1	3909
BseDI	C!CNNGG	33	360; 611; 781; 791; 881; 939; 968; 1023; 1175; 1176; 1305; 1534; 1659; 1871; 1928; 2271; 2304; 2453; 2507; 3603; 3675; 3798; 3833; 3842; 3891; 4232; 4501; 4906; 5033; 5034; 5136; 5137; 5827
Bse3DI	GCAATGNN!	2	1404; 4302
Bse3DI	!CATTGC	2	2339; 2495
BseGI	GGATGNN!	5	2588; 3929; 4386; 4411; 4865
BseGI	!CATCC	9	890; 905; 1019; 1364; 1433; 1907; 2138; 2366; 3755
BseJI	GATNN!NNATC	3	1201; 2731; 3928
BseLI	CCNNNNN!NNGG	28	49; 782; 945; 1035; 1080; 1251; 1311; 1701; 1806; 2272; 2376; 2454; 2634; 3081; 3407; 3799; 4050; 4594; 4875; 4907; 5039; 5074; 5124; 5156; 5509; 5788; 5954; 5972
BseMI	GCAATGNN!	2	1404; 4302
BseMI	!CATTGC	2	2339; 2495
BseMII	CTCAGNNNNNNNNNN!	3	1350; 1832; 5195
BseMII	!NNNNNNNNCTGAG	11	1207; 1604; 2062; 2171; 2470; 2492; 3540; 3842; 4723; 5295; 5704
BseNI	ACTGGN!	7	1590; 1785; 2397; 2569; 4013; 4214; 5460
BseNI	C!CAGT	7	295; 1728; 2370; 3098; 3776; 5572; 5585
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	4	643; 1493; 2659; 3887
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	12	653; 683; 782; 1175; 1535; 1667; 1735; 2129; 2389; 4015; 4108; 5677
BseXI	GCAGCNNNNNNNN!	10	1155; 1307; 1629; 2375; 2857; 4142; 4184; 4705; 5158; 5658
BseXI	!NNNNNNNNNNNGCTGC	11	758; 1629; 2278; 2322; 2610; 3351; 4016; 4200; 4293; 5359; 5565
BseX3I	C!GGCCG	1	3975
BseYI	C!CCAGC	4	1863; 3612; 3684; 5683
BseYI	G!CTGGG	2	1406; 4573
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1162
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	741
Bsh1236I	CG!CG	18	60; 704; 941; 1259; 2957; 2993; 3369; 3389; 3413; 3444; 4135; 4436; 4874; 4958; 5021; 5090; 5363; 5944
Bsh1285I	CGRY!CG	3	605; 3978; 5653

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BshFI	GG!CC	34	84; 277; 686; 786; 1028; 1084; 1094; 1150; 1187; 1255; 1376; 1448; 1969; 2155; 2452; 2506; 2608; 3035; 3177; 3832; 3838; 3847; 3890; 3977; 4151; 4542; 4569; 5078; 5135; 5168; 5513; 5947; 5965; 5976
BshNI	G!GYRCC	8	465; 1588; 2124; 2384; 2433; 3222; 4068; 4103
BshTI	A!CCGGT	2	600; 1735
BshVI	AT!CGAT	1	3909
BsiEI	CGRY!CG	3	605; 3978; 5653
BsiHKAI	GWGCW!C	8	683; 1274; 1415; 1735; 1937; 4182; 4372; 5677
BsiHKCI	C!YCGRG	4	880; 1343; 1535; 1658
BsiSI	C!CGG	23	601; 641; 764; 1331; 1536; 1736; 2711; 3287; 3974; 4051; 4073; 4101; 4232; 4322; 4389; 4570; 4845; 4853; 4945; 5419; 5609; 5635; 5782
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	28	49; 782; 945; 1035; 1080; 1251; 1311; 1701; 1806; 2272; 2376; 2454; 2634; 3081; 3407; 3799; 4050; 4594; 4875; 4907; 5039; 5074; 5124; 5156; 5509; 5788; 5954; 5972
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4220; 4752; 4861
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3585; 3657; 3721; 5016
BsmI	GAATGCN!	1	2820
BsmI	G!CATTC	1	2913
BsmAI	GTCTCN!	2	434; 1819
BsmAI	!NNNNNGAGAC	6	1504; 2438; 3493; 3911; 4930; 5058
BsmBI	CGTCTCN!	1	1819
BsmBI	!NNNNNGAGACG	1	1504
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4220; 4752; 4861
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3585; 3657; 3721; 5016
BsnI	GG!CC	34	84; 277; 686; 786; 1028; 1084; 1094; 1150; 1187; 1255; 1376; 1448; 1969; 2155; 2452; 2506; 2608; 3035; 3177; 3832; 3838; 3847; 3890; 3977; 4151; 4542; 4569; 5078; 5135; 5168; 5513; 5947; 5965; 5976
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	2438; 5058
BsoBI	C!YCGRG	4	880; 1343; 1535; 1658
Bsp13I	T!CCGGA	1	1330
Bsp19I	C!CATGG	5	360; 611; 2271; 3798; 4501
Bsp24I	GACNNNNNNNTGGNNNNNNNNNNNN!	3	289; 1535; 4872
Bsp24I	!NNNNNNNNCCANNNNNNNGTC	3	2035; 5293; 5471
Bsp24I	CCANNNNNNNGTCNNNNNNNNNNNN!	3	2067; 5325; 5503
Bsp24I	!NNNNNNNGACNNNNNNNTGG	3	257; 1503; 4840
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4751
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	26	585; 659; 743; 1196; 1339; 1685; 2216; 2704; 2713; 2726; 3906; 3910; 3929; 4240; 4318; 4399; 4408; 4486; 4862; 4878; 5237; 5249; 5327; 5335; 5346; 5421
Bsp1286I	GDGCH!C	23	653; 683; 782; 1175; 1274; 1415; 1535; 1667; 1735; 1898; 1937; 2088; 2129; 2389; 2514; 3260; 4015; 4108; 4182; 4372; 4434; 5144; 5677
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	1	2479
BspACI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 831; 939; 978; 1116; 1245; 1257; 1326; 1596; 2031; 2136; 3384; 3387; 3401; 3491; 3739; 3751; 3760; 3772; 3782; 3793; 3839; 3978; 4041; 4543; 4588; 4654; 4680; 4805; 4808; 4956; 5088; 5395; 5539; 6035
BspACI	G!CGG	27	370; 403; 528; 704; 941; 1133; 1136; 3329; 3356; 3444; 3554; 4135; 4199; 4300; 4303; 4583; 4638; 4736; 4874; 5021; 5161; 5404; 5649; 5770; 5789; 5916; 5944
BspCNI	CTCAGNNNNNNNN!	3	1349; 1831; 5194
BspCNI	!NNNNNNNCTGAG	11	1208; 1605; 2063; 2172; 2471; 2493; 3541; 3843; 4724; 5296; 5705
BspDI	AT!CGAT	1	3909
BspD6I	GACTCNNNN!	6	418; 1342; 1494; 3142; 4748; 5625
BspD6I	!NNNNNNGAGTC	3	1272; 3105; 3537
BspEI	T!CCGGA	1	1330
BspFNI	CG!CG	18	60; 704; 941; 1259; 2957; 2993; 3369; 3389; 3413; 3444; 4135; 4436; 4874; 4958; 5021; 5090; 5363; 5944

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspHI	T!CATGA	2	3495; 5267
BspLI	GGN!NCC	23	467; 1188; 1559; 1590; 2085; 2126; 2318; 2386; 2435; 2706; 3224; 3245; 3257; 3448; 3609; 3681; 4070; 4105; 4953; 5032; 5077; 5920; 5959
BspMI	ACCTGCNNNN!	2	4337; 4787
BspMI	!NNNNNNNNGCAGGT	1	3956
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	2712; 2721; 3937; 4248; 4494; 4886; 5245; 5343; 5429
BspPI	!NNNNNGATCC	7	580; 1191; 2699; 4313; 4857; 5244; 5341
BspQI	GCTCTCN!	1	1609
BspQI	!NNNNGAAGAGC	2	4413; 4623
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4751
BspT107I	G!GYRCC	8	465; 1588; 2124; 2384; 2433; 3222; 4068; 4103
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	2438; 5058
BsrI	ACTGGN!	7	1590; 1785; 2397; 2569; 4013; 4214; 5460
BsrI	C!CAGT	7	295; 1728; 2370; 3098; 3776; 5572; 5585
BsrBI	CCG!CTC	3	1328; 3493; 4682
BsrBI	GAG!CGG	2	3329; 4736
BsrDI	GCAATGNN!	2	1404; 4302
BsrDI	!CATTGC	2	2339; 2495
BsrFI	R!CCGGY	8	600; 640; 763; 1735; 3286; 4388; 4569; 4852
BsrGI	T!GTACA	0	
BsrSI	ACTGGN!	7	1590; 1785; 2397; 2569; 4013; 4214; 5460
BsrSI	C!CAGT	7	295; 1728; 2370; 3098; 3776; 5572; 5585
BssAI	R!CCGGY	8	600; 640; 763; 1735; 3286; 4388; 4569; 4852
BssECI	C!CNNGG	33	360; 611; 781; 791; 881; 939; 968; 1023; 1175; 1176; 1305; 1534; 1659; 1871; 1928; 2271; 2304; 2453; 2507; 3603; 3675; 3798; 3833; 3842; 3891; 4232; 4501; 4906; 5033; 5034; 5136; 5137; 5827
BssHII	G!CGCGC	0	
BssKI	!CCNGG	34	88; 281; 781; 791; 893; 968; 1022; 1094; 1175; 1274; 1376; 1421; 1534; 1535; 1871; 1928; 2120; 2436; 2447; 2506; 2516; 3603; 3658; 3675; 4071; 4231; 4454; 4844; 5033; 5136; 5608; 5826; 5839; 5960
BssMI	!GATC	26	585; 659; 743; 1196; 1339; 1685; 2216; 2704; 2713; 2726; 3906; 3910; 3929; 4240; 4318; 4399; 4408; 4486; 4862; 4878; 5237; 5249; 5327; 5335; 5346; 5421
BssNI	GR!CGYC	8	122; 175; 258; 444; 722; 4069; 4771; 4850
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4787; 5814
BssSI	C!TCGTG	1	4661
BssT1I	C!CWWGG	8	360; 611; 2271; 2453; 3798; 3891; 4501; 4906
Bst6I	CTCTCN!	2	916; 1609
Bst6I	!NNNNGAAGAG	3	3536; 4413; 4623
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 722; 4069; 4771; 4850
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	4	1403; 3636; 3708; 5170
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	1	4751
Bst2BI	C!ACGAG	2	4787; 5814
Bst2BI	C!TCGTG	1	4661
BstBAI	YAC!GTR	5	340; 1530; 2571; 3185; 4373
Bst4CI	ACN!GT	17	76; 198; 269; 543; 581; 821; 1566; 2305; 2430; 3160; 4449; 4565; 4673; 4996; 5487; 5957; 6028
BstC8I	GCN!NGC	47	86; 279; 593; 642; 700; 736; 769; 831; 1141; 1148; 1257; 1293; 1404; 1525; 1600; 1717; 1721; 2229; 2240; 2289; 2476; 2514; 2552; 3288; 3331; 3345; 3618; 3637; 3690; 3709; 3963; 4149; 4368; 4434; 4440; 4472; 4513; 4517; 4571; 4854; 5041; 5088; 5144; 5166; 5377; 5937; 5974
BstDEI	C!TNAG	15	1216; 1336; 1613; 1818; 2071; 2180; 2479; 2501; 2700; 3549; 3851; 4732; 5181; 5304; 5713
BstDSI	C!CRYGG	8	360; 611; 939; 1305; 2271; 2304; 3798; 4501
BstEII	G!GTNACC	1	795

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstENI	CCTNN!NNNAGG	2	2452; 2632
BstF5I	GGATGNN!	5	2588; 3929; 4386; 4411; 4865
BstF5I	!CATCC	9	890; 905; 1019; 1364; 1433; 1907; 2138; 2366; 3755
BstFNI	CG!CG	18	60; 704; 941; 1259; 2957; 2993; 3369; 3389; 3413; 3444; 4135; 4436; 4874; 4958; 5021; 5090; 5363; 5944
BstH2I	RGCGC!Y	9	598; 875; 1292; 1520; 2010; 3336; 3344; 4072; 5747
BstHHI	GCG!C	28	597; 704; 874; 902; 1291; 1519; 2009; 2363; 3335; 3343; 3369; 3391; 3400; 3413; 3444; 4063; 4071; 4135; 4172; 4438; 4698; 4874; 4960; 5363; 5472; 5646; 5746; 5813
BstKTI	GAT!C	26	588; 662; 746; 1199; 1342; 1688; 2219; 2707; 2716; 2729; 3909; 3913; 3932; 4243; 4321; 4402; 4411; 4489; 4865; 4881; 5240; 5252; 5330; 5338; 5349; 5424
BstMAI	GTCTCN!	2	434; 1819
BstMAI	!NNNNNGAGAC	6	1504; 2438; 3493; 3911; 4930; 5058
BstMBI	!GATC	26	585; 659; 743; 1196; 1339; 1685; 2216; 2704; 2713; 2726; 3906; 3910; 3929; 4240; 4318; 4399; 4408; 4486; 4862; 4878; 5237; 5249; 5327; 5335; 5346; 5421
BstMCI	CGRY!CG	3	605; 3978; 5653
BstMWI	GCNNNNN!NNGC	42	90; 212; 244; 283; 376; 400; 663; 704; 764; 777; 821; 1052; 1244; 1295; 1403; 1595; 2039; 2161; 2185; 2341; 2393; 2480; 2551; 3296; 3326; 3353; 3395; 3636; 3708; 3759; 3838; 4060; 4144; 4167; 4306; 4429; 4512; 4779; 4966; 5170; 5369; 5941
BstNI	CC!WGG	28	90; 283; 783; 793; 895; 970; 1024; 1096; 1177; 1276; 1378; 1423; 1873; 1930; 2122; 2438; 2449; 2508; 2518; 3605; 3660; 3677; 4456; 5035; 5138; 5828; 5841; 5962
BstNSI	RCATG!Y	5	2478; 3639; 3711; 4474; 5991
BstOI	CC!WGG	28	90; 283; 783; 793; 895; 970; 1024; 1096; 1177; 1276; 1378; 1423; 1873; 1930; 2122; 2438; 2449; 2508; 2518; 3605; 3660; 3677; 4456; 5035; 5138; 5828; 5841; 5962
BstPI	G!GTNACC	1	795
BstPAI	GACNN!NNGTC	1	1982
BstSCI	!CCNGG	34	88; 281; 781; 791; 893; 968; 1022; 1094; 1175; 1274; 1376; 1421; 1534; 1535; 1871; 1928; 2120; 2436; 2447; 2506; 2516; 3603; 3658; 3675; 4071; 4231; 4454; 4844; 5033; 5136; 5608; 5826; 5839; 5960
BstSFI	C!TRYAG	6	1293; 1886; 2207; 3404; 5531; 5722
BstSLI	GKGC!C	12	653; 683; 782; 1175; 1535; 1667; 1735; 2129; 2389; 4015; 4108; 5677
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	18	60; 704; 941; 1259; 2957; 2993; 3369; 3389; 3413; 3444; 4135; 4436; 4874; 4958; 5021; 5090; 5363; 5944
Bst2UI	CC!WGG	28	90; 283; 783; 793; 895; 970; 1024; 1096; 1177; 1276; 1378; 1423; 1873; 1930; 2122; 2438; 2449; 2508; 2518; 3605; 3660; 3677; 4456; 5035; 5138; 5828; 5841; 5962
BstV1I	GCAGCNNNNNNN!	10	1155; 1307; 1629; 2375; 2857; 4142; 4184; 4705; 5158; 5658
BstV1I	!NNNNNNNNNNNGCTGC	11	758; 1629; 2278; 2322; 2610; 3351; 4016; 4200; 4293; 5359; 5565
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	1	1732
BstXI	CCANNNNN!NTGG	3	1444; 1768; 2250
BstX2I	R!GATCY	11	585; 1339; 2704; 2713; 4240; 4486; 4878; 5237; 5249; 5335; 5346
BstYI	R!GATCY	11	585; 1339; 2704; 2713; 4240; 4486; 4878; 5237; 5249; 5335; 5346
BstZI	C!GGCCG	1	3975
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3498; 4288; 5789
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3909
Bsu36I	CC!TNAGG	2	3549; 5181
BsuRI	GG!CC	34	84; 277; 686; 786; 1028; 1084; 1094; 1150; 1187; 1255; 1376; 1448; 1969; 2155; 2452; 2506; 2608; 3035; 3177; 3832; 3838; 3847; 3890; 3977; 4151; 4542; 4569; 5078; 5135; 5168; 5513; 5947; 5965; 5976
BsuTUI	AT!CGAT	1	3909
BtgI	C!CRYGG	8	360; 611; 939; 1305; 2271; 2304; 3798; 4501
BtgZI	GCGATGNNNNNNNNN!	2	3186; 4521
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 4340; 4684

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BthCI	GCNG!C	41	707; 774; 944; 1136; 1139; 1146; 1298; 1620; 1645; 2294; 2338; 2366; 2626; 2848; 3367; 3389; 3403; 3841; 3980; 4032; 4043; 4133; 4138; 4175; 4216; 4303; 4306; 4309; 4545; 4641; 4682; 4696; 4810; 5149; 5164; 5375; 5581; 5584; 5649; 5792; 5947
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	2	678; 2313
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	2060; 2908
BtsCI	GGATGNN!	5	2588; 3929; 4386; 4411; 4865
BtsCI	!CATCC	9	890; 905; 1019; 1364; 1433; 1907; 2138; 2366; 3755
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4337; 4787
BveI	!NNNNNNNNNGCAGGT	1	3956
Cac8I	GCN!NGC	47	86; 279; 593; 642; 700; 736; 769; 831; 1141; 1148; 1257; 1293; 1404; 1525; 1600; 1717; 1721; 2229; 2240; 2289; 2476; 2514; 2552; 3288; 3331; 3345; 3618; 3637; 3690; 3709; 3963; 4149; 4368; 4434; 4440; 4472; 4513; 4517; 4571; 4854; 5041; 5088; 5144; 5166; 5377; 5937; 5974
CaiI	CAGNNN!CTG	3	1292; 5170; 5578
CciI	T!CATGA	2	3495; 5267
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	8	352; 648; 984; 1128; 4358; 4363; 4561; 4702
CdiI	C!GATG	3	1443; 3172; 4507
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5941
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3730; 3772
CelII	GC!TNAGC	1	2479
CfoI	GCG!C	28	597; 704; 874; 902; 1291; 1519; 2009; 2363; 3335; 3343; 3369; 3391; 3400; 3413; 3444; 4063; 4071; 4135; 4172; 4438; 4698; 4874; 4960; 5363; 5472; 5646; 5746; 5813
CfrI	Y!GGCCR	10	684; 1148; 1374; 1446; 2153; 2450; 3975; 4149; 4540; 4567
Cfr9I	C!CCGGG	1	1535
Cfr10I	R!CCGGY	8	600; 640; 763; 1735; 3286; 4388; 4569; 4852
Cfr13I	G!GNCC	16	83; 276; 785; 1026; 1186; 1242; 1254; 1704; 2520; 2607; 3176; 4585; 5030; 5076; 5134; 5167
Cfr42I	CCGC!GG	1	942
ChaI	GATC!	26	589; 663; 747; 1200; 1343; 1689; 2220; 2708; 2717; 2730; 3910; 3914; 3933; 4244; 4322; 4403; 4412; 4490; 4866; 4882; 5241; 5253; 5331; 5339; 5350; 5425
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	2068; 3886; 5326; 5426; 5504
CjeI	!NNNNNNNNNACNNNNNNNTGG	9	64; 257; 1503; 1770; 3553; 3648; 4840; 5390; 5945
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	9	98; 291; 1537; 1804; 3587; 3682; 4874; 5424; 5979
CjeI	!NNNNNNNNCCANNNNNNGT	5	2034; 3852; 5292; 5392; 5470
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	3	2068; 5326; 5504
CjePI	!NNNNNNNNGANNNNNNNTGG	5	257; 1503; 2064; 4840; 5439
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	5	290; 1536; 2097; 4873; 5472
CjePI	!NNNNNNNNCCANNNNNNNTC	3	2035; 5293; 5471
ClaI	AT!CGAT	1	3909
CpoI	CG!GWCCG	1	4585
CseI	GACGCNNNNN!	4	526; 730; 4779; 4858
CseI	!NNNNNNNNNNNGCGTC	3	3402; 5297; 5875
CsiI	A!CCWGGT	2	2120; 3658
CspI	CG!GWCCG	1	4585
Csp6I	G!TAC	14	218; 243; 298; 331; 382; 539; 817; 930; 1041; 1323; 2301; 2458; 2568; 4374
Csp45I	TT!CGAA	1	4751
CspAI	A!CCGGT	2	600; 1735
CspCI	CAANNNNNNGTGNNNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	2	1551; 2478
CspCI	CCACNNNNNTTGNNNNNNNNNNNNNN!	2	1586; 2513
CspCI	!NNNNNNNNNNCAANNNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	5	1031; 1706; 2694; 3349; 4958
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	1	1469
CviAII	C!ATG	26	301; 361; 612; 846; 876; 1266; 1311; 1806; 1953; 2194; 2272; 2283; 2475; 3496; 3636; 3708; 3799; 3940; 4285; 4471; 4502; 4528; 4884; 5268; 5988; 6039

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviJI	RG!CY	125	42; 84; 93; 277; 566; 633; 666; 686; 738; 771; 786; 887; 987; 1028; 1035; 1046; 1055; 1084; 1094; 1146; 1150; 1187; 1220; 1255; 1298; 1320; 1376; 1381; 1413; 1440; 1448; 1540; 1602; 1620; 1719; 1723; 1748; 1766; 1845; 1885; 1896; 1969; 2042; 2086; 2155; 2188; 2202; 2238; 2242; 2287; 2396; 2421; 2452; 2467; 2494; 2506; 2512; 2608; 2623; 2738; 2848; 3015; 3035; 3177; 3258; 3272; 3286; 3567; 3608; 3680; 3803; 3832; 3838; 3847; 3855; 3878; 3890; 3896; 3977; 3994; 4002; 4029; 4054; 4138; 4147; 4151; 4175; 4213; 4289; 4306; 4325; 4388; 4432; 4442; 4459; 4542; 4569; 4573; 4610; 4633; 4649; 4829; 4856; 4917; 5039; 5078; 5135; 5142; 5149; 5168; 5179; 5430; 5459; 5502; 5513; 5578; 5657; 5682; 5687; 5733; 5823; 5921; 5947; 5965; 5976
CviKI-1	RG!CY	125	42; 84; 93; 277; 566; 633; 666; 686; 738; 771; 786; 887; 987; 1028; 1035; 1046; 1055; 1084; 1094; 1146; 1150; 1187; 1220; 1255; 1298; 1320; 1376; 1381; 1413; 1440; 1448; 1540; 1602; 1620; 1719; 1723; 1748; 1766; 1845; 1885; 1896; 1969; 2042; 2086; 2155; 2188; 2202; 2238; 2242; 2287; 2396; 2421; 2452; 2467; 2494; 2506; 2512; 2608; 2623; 2738; 2848; 3015; 3035; 3177; 3258; 3272; 3286; 3567; 3608; 3680; 3803; 3832; 3838; 3847; 3855; 3878; 3890; 3896; 3977; 3994; 4002; 4029; 4054; 4138; 4147; 4151; 4175; 4213; 4289; 4306; 4325; 4388; 4432; 4442; 4459; 4542; 4569; 4573; 4610; 4633; 4649; 4829; 4856; 4917; 5039; 5078; 5135; 5142; 5149; 5168; 5179; 5430; 5459; 5502; 5513; 5578; 5657; 5682; 5687; 5733; 5823; 5921; 5947; 5965; 5976
CviQI	G!TAC	14	218; 243; 298; 331; 382; 539; 817; 930; 1041; 1323; 2301; 2458; 2568; 4374
DdeI	C!TNAG	15	1216; 1336; 1613; 1818; 2071; 2180; 2479; 2501; 2700; 3549; 3851; 4732; 5181; 5304; 5713
DinI	GGC!GCC	1	4070
DpnI	GA!TC	26	587; 661; 745; 1198; 1341; 1687; 2218; 2706; 2715; 2728; 3908; 3912; 3931; 4242; 4320; 4401; 4410; 4488; 4864; 4880; 5239; 5251; 5329; 5337; 5348; 5423
DpnII	!GATC	26	585; 659; 743; 1196; 1339; 1685; 2216; 2704; 2713; 2726; 3906; 3910; 3929; 4240; 4318; 4399; 4408; 4486; 4862; 4878; 5237; 5249; 5327; 5335; 5346; 5421
DraI	TTT!AAA	3	2771; 5213; 5232
DraII	RG!GNCCY	1	5167
DraIII	CACNNN!GTG	2	1269; 3185
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	7	266; 866; 953; 1022; 1265; 1550; 5549
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTTG	0	
DrdI	GACNNN!NNGTC	3	3140; 4096; 5885
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	2	476; 1966
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	3140; 4096; 5885
EaeI	Y!GGCCR	10	684; 1148; 1374; 1446; 2153; 2450; 3975; 4149; 4540; 4567
EagI	C!GGCCG	1	3975
Eam1104I	CTCTTCN!	2	916; 1609
Eam1104I	!NNNNGAAGAG	3	3536; 4413; 4623
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	2	916; 1609
EarI	!NNNNGAAGAG	3	3536; 4413; 4623
EciI	GGCGGANNNNNNNNNNNN!	4	3569; 4598; 5785; 5931
EciI	!NNNNNNNNNTCCGCC	4	496; 3740; 3761; 3782
Ecl136II	GAG!CTC	1	1413
EclXI	C!GGCCG	1	3975
Eco24I	GRGCY!C	7	1415; 1898; 2088; 2514; 3260; 4434; 5144
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	2438; 5058
Eco32I	GAT!ATC	1	2001
Eco47I	G!GWCC	5	1242; 1704; 2520; 4585; 5030
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	3975
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	1009; 4215; 4647
Eco57I	!NNNNNNNNNNNNNNNNCTTCAG	3	1488; 1726; 5445
Eco72I	CAC!GTG	1	1530

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco8II	CC!TNAGG	2	3549; 5181
Eco88I	C!YCGRG	4	880; 1343; 1535; 1658
Eco91I	G!GTNACC	1	795
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	8	360; 611; 2271; 2453; 3798; 3891; 4501; 4906
Eco147I	AGG!CCT	2	2506; 3890
EcoHI	!CCSGG	6	1534; 1535; 4071; 4231; 4844; 5608
EcoICRI	GAG!CTC	1	1413
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	10	760; 1009; 1057; 1117; 1297; 1867; 1951; 4215; 4647; 4909
Eco57MI	!NNNNNNNNNNNNNNCTYAG	4	1488; 1726; 4852; 5445
EcoNI	CCTNN!NNNAGG	2	2452; 2632
EcoO65I	G!GTNACC	1	795
EcoO109I	RG!GNCCY	1	5167
EcoRI	G!AATTC	2	1709; 2107
EcoRII	!CCWGG	28	88; 281; 781; 791; 893; 968; 1022; 1094; 1175; 1274; 1376; 1421; 1871; 1928; 2120; 2436; 2447; 2506; 2516; 3603; 3658; 3675; 4454; 5033; 5136; 5826; 5839; 5960
EcoRV	GAT!ATC	1	2001
EcoT14I	C!CWWGG	8	360; 611; 2271; 2453; 3798; 3891; 4501; 4906
EcoT22I	ATGCA!T	3	3641; 3713; 6044
EcoT38I	GRGCY!C	7	1415; 1898; 2088; 2514; 3260; 4434; 5144
Eco53kI	GAG!CTC	1	1413
EgeI	GGC!GCC	1	4070
EheI	GGC!GCC	1	4070
ErhI	C!CWWGG	8	360; 611; 2271; 2453; 3798; 3891; 4501; 4906
EsaBC3I	TC!GA	18	663; 957; 984; 1128; 1345; 1998; 2004; 3219; 3910; 4183; 4339; 4363; 4399; 4561; 4752; 4797; 5052; 5890
Esp3I	CGTCTCN!	1	1819
Esp3I	!NNNNNGAGACG	1	1504
FaeI	CATG!	26	304; 364; 615; 849; 879; 1269; 1314; 1809; 1956; 2197; 2275; 2286; 2478; 3499; 3639; 3711; 3802; 3943; 4288; 4474; 4505; 4531; 4887; 5271; 5991; 6042
Fail	YA!TR	70	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 847; 877; 1267; 1312; 1655; 1807; 1829; 1954; 1976; 2160; 2162; 2195; 2273; 2284; 2476; 2543; 2620; 2642; 2731; 2741; 2807; 2852; 3057; 3485; 3497; 3628; 3637; 3700; 3709; 3733; 3800; 3824; 3941; 4005; 4286; 4311; 4472; 4503; 4529; 4601; 4817; 4885; 4963; 5015; 5176; 5193; 5195; 5197; 5269; 5547; 5736; 5852; 5925; 5989; 6040
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	2571; 4409
FalI	!NNNNNNNNAAGNNNNNCTT	2	2539; 4377
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4220; 4752; 4861
FaqI	!NNNNNNNNNNNNNGTCCC	4	3585; 3657; 3721; 5016
FatI	!CATG	26	300; 360; 611; 845; 875; 1265; 1310; 1805; 1952; 2193; 2271; 2282; 2474; 3495; 3635; 3707; 3798; 3939; 4284; 4470; 4501; 4527; 4883; 5267; 5987; 6038
FauI	CCCGCNNNN!	13	93; 119; 286; 838; 946; 1123; 1264; 2143; 3391; 3746; 3767; 4963; 5095
FauI	!NNNNNNNGCGGG	5	3322; 4192; 4729; 4867; 5014
FauNDI	CA!TATG	2	234; 2160
FbaI	T!GATCA	1	2726
FblI	GT!MKAC	3	1064; 1550; 1958
FmuI	GGNC!C	16	86; 279; 788; 1029; 1189; 1245; 1257; 1707; 2523; 2610; 3179; 4588; 5033; 5079; 5137; 5170
Fnu4HI	GC!NGC	41	705; 772; 942; 1134; 1137; 1144; 1296; 1618; 1643; 2292; 2336; 2364; 2624; 2846; 3365; 3387; 3401; 3839; 3978; 4030; 4041; 4131; 4136; 4173; 4214; 4301; 4304; 4307; 4543; 4639; 4680; 4694; 4808; 5147; 5162; 5373; 5579; 5582; 5647; 5790; 5945
FokI	GGATGNNNNNNNNNN!	5	2595; 3936; 4393; 4418; 4872
FokI	!NNNNNNNNNNNNNCATCC	8	877; 1006; 1351; 1420; 1894; 2125; 2353; 3742
FriOI	GRGCY!C	7	1415; 1898; 2088; 2514; 3260; 4434; 5144
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	4171
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 2717; 2918; 3336; 3892; 4907; 5241; 5494

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; 614; 654; 700; 738; 774; 788; 804; 822; 843; 888; 907; 922; 951; 981; 1036; 1069; 1086; 1108; 1128; 1164; 1179; 1201; 1215; 1237; 1258; 1276; 1296; 1312; 1339; 1377; 1402; 1416; 1435; 1450; 1469; 1503; 1547; 1574; 1605; 1621; 1659; 1686; 1708; 1741; 1774; 1809; 1854; 1869; 1883; 1910; 1924; 1938; 1962; 1983; 2008; 2023; 2038; 2056; 2070; 2100; 2125; 2141; 2155; 2169; 2202; 2235; 2252; 2278; 2308; 2333; 2352; 2370; 2401; 2431; 2450; 2466; 2502; 2520; 2536; 2559; 2622; 2640; 2721; 2752; 2791; 2805; 2946; 3041; 3065; 3088; 3111; 3129; 3151; 3172; 3191; 3210; 3239; 3260; 3274; 3300; 3388; 3414; 3463; 3504; 3522; 3561; 3577; 3615; 3672; 3687; 3744; 3764; 3778; 3795; 3809; 3846; 3861; 3904; 3987; 4054; 4085; 4105; 4120; 4165; 4179; 4245; 4259; 4278; 4294; 4335; 4355; 4402; 4452; 4468; 4488; 4513; 4533; 4556; 4583; 4601; 4627; 4667; 4693; 4717; 4773; 4787; 4815; 4858; 4879; 4914; 4958; 5046; 5070; 5092; 5112; 5128; 5149; 5163; 5182; 5266; 5286; 5314; 5329; 5363; 5405; 5432; 5447; 5492; 5516; 5530; 5552; 5578; 5598; 5622; 5648; 5696; 5715; 5734; 5760; 5795; 5840; 5870; 5884; 5935; 5949; 5974; 5990; 6011; 6040
FspEI	!NNNNNNNNNNNNNGG	168	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 608; 626; 652; 689; 716; 749; 768; 797; 868; 908; 926; 944; 976; 994; 1021; 1066; 1084; 1114; 1132; 1162; 1225; 1252; 1292; 1316; 1358; 1379; 1408; 1430; 1457; 1498; 1521; 1540; 1571; 1613; 1646; 1666; 1687; 1705; 1729; 1754; 1772; 1792; 1814; 1858; 1915; 1939; 2066; 2107; 2137; 2236; 2258; 2291; 2362; 2386; 2416; 2434; 2488; 2550; 2569; 2590; 2620; 2641; 2659; 2677; 2696; 2740; 2840; 2909; 3017; 3066; 3088; 3116; 3152; 3197; 3226; 3262; 3281; 3309; 3329; 3392; 3415; 3523; 3555; 3573; 3602; 3645; 3674; 3785; 3814; 3857; 3878; 3906; 3939; 3959; 3984; 4011; 4036; 4058; 4086; 4112; 4133; 4184; 4205; 4223; 4271; 4307; 4363; 4388; 4412; 4441; 4464; 4488; 4514; 4536; 4555; 4580; 4620; 4656; 4721; 4806; 4830; 4859; 4893; 4914; 4934; 4979; 5006; 5025; 5058; 5110; 5141; 5168; 5220; 5318; 5389; 5434; 5495; 5560; 5594; 5620; 5638; 5674; 5744; 5767; 5789; 5813; 5846; 5894; 5929; 5947; 6004
Fsp4HI	GC!NGC	41	705; 772; 942; 1134; 1137; 1144; 1296; 1618; 1643; 2292; 2336; 2364; 2624; 2846; 3365; 3387; 3401; 3839; 3978; 4030; 4041; 4131; 4136; 4173; 4214; 4301; 4304; 4307; 4543; 4639; 4680; 4694; 4808; 5147; 5162; 5373; 5579; 5582; 5647; 5790; 5945
GdiII	C!GGCCR	2	684; 3975
GdiII	Y!GGCCG	4	1148; 3975; 4540; 4567
GlaI	GC!GC	28	596; 703; 873; 901; 1290; 1518; 2008; 2362; 3334; 3342; 3368; 3390; 3399; 3412; 3443; 4062; 4070; 4134; 4171; 4437; 4697; 4873; 4959; 5362; 5471; 5645; 5745; 5812
GluI	GC!NGC	41	705; 772; 942; 1134; 1137; 1144; 1296; 1618; 1643; 2292; 2336; 2364; 2624; 2846; 3365; 3387; 3401; 3839; 3978; 4030; 4041; 4131; 4136; 4173; 4214; 4301; 4304; 4307; 4543; 4639; 4680; 4694; 4808; 5147; 5162; 5373; 5579; 5582; 5647; 5790; 5945
GsaI	CCCAG!C	4	1867; 3616; 3688; 5687
GsaI	GCTGG!G	2	1410; 4577
GsuI	CTGGAGNNNNNNNNNNNNNN!	7	760; 1057; 1117; 1297; 1867; 1951; 4909
GsuI	!NNNNNNNNNNNNNCTCCAG	1	4852
HaeI	WGG!CCW	12	1084; 1376; 1448; 1969; 2155; 2452; 2506; 3890; 4151; 5513; 5965; 5976
HaeII	RGCG!Y	9	598; 875; 1292; 1520; 2010; 3336; 3344; 4072; 5747
HaeIII	GG!CC	34	84; 277; 686; 786; 1028; 1084; 1094; 1150; 1187; 1255; 1376; 1448; 1969; 2155; 2452; 2506; 2608; 3035; 3177; 3832; 3838; 3847; 3890; 3977; 4151; 4542; 4569; 5078; 5135; 5168; 5513; 5947; 5965; 5976
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2744; 4265
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2710; 4231
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2743; 4264
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2712; 4233
HapII	C!CGG	23	601; 641; 764; 1331; 1536; 1736; 2711; 3287; 3974; 4051; 4073; 4101; 4232; 4322; 4389; 4570; 4845; 4853; 4945; 5419; 5609; 5635; 5782

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HgaI	GACGCNNNNN!	4	526; 730; 4779; 4858
HgaI	!NNNNNNNNNGCGTC	3	3402; 5297; 5875
HhaI	GCG!C	28	597; 704; 874; 902; 1291; 1519; 2009; 2363; 3335; 3343; 3369; 3391; 3400; 3413; 3444; 4063; 4071; 4135; 4172; 4438; 4698; 4874; 4960; 5363; 5472; 5646; 5746; 5813
HinI	GR!CGYC	8	122; 175; 258; 444; 722; 4069; 4771; 4850
Hin1II	CATG!	26	304; 364; 615; 849; 879; 1269; 1314; 1809; 1956; 2197; 2275; 2286; 2478; 3499; 3639; 3711; 3802; 3943; 4288; 4474; 4505; 4531; 4887; 5271; 5991; 6042
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	2743; 4264
Hin4I	!NNNNNNNNGABNNNNNNRTC	3	2711; 4232; 4262
Hin4I	GABNNNNNNRTCNNNNNNNNNNNN!	3	2743; 4264; 4294
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	2711; 4232
Hin6I	G!CGC	28	595; 702; 872; 900; 1289; 1517; 2007; 2361; 3333; 3341; 3367; 3389; 3398; 3411; 3442; 4061; 4069; 4133; 4170; 4436; 4696; 4872; 4958; 5361; 5470; 5644; 5744; 5811
HinP1I	G!CGC	28	595; 702; 872; 900; 1289; 1517; 2007; 2361; 3333; 3341; 3367; 3389; 3398; 3411; 3442; 4061; 4069; 4133; 4170; 4436; 4696; 4872; 4958; 5361; 5470; 5644; 5744; 5811
HincII	GTY!RAC	2	2097; 2832
HindII	GTY!RAC	2	2097; 2832
HindIII	A!AGCTT	0	
HinfI	G!ANTC	15	410; 1279; 1334; 1486; 2659; 3112; 3134; 3544; 4554; 4688; 4740; 4798; 4835; 5617; 6013
HpaI	GTT!AAC	1	2832
HpaII	C!CGG	23	601; 641; 764; 1331; 1536; 1736; 2711; 3287; 3974; 4051; 4073; 4101; 4232; 4322; 4389; 4570; 4845; 4853; 4945; 5419; 5609; 5635; 5782
HphI	GGTGANNNNNNN!	11	376; 807; 960; 984; 1113; 2265; 2320; 2587; 2689; 5140; 5256
HphI	!NNNNNNNTCACC	7	798; 1062; 1785; 1905; 2211; 3186; 4247
Hpy8I	GTN!NAC	18	201; 539; 577; 681; 975; 1065; 1104; 1551; 1733; 1793; 1959; 2097; 2562; 2832; 3116; 3133; 3188; 5675
Hpy99I	CGWCG!	11	679; 724; 925; 1186; 4159; 4187; 4481; 4496; 4773; 5158; 5891
Hpy166II	GTN!NAC	18	201; 539; 577; 681; 975; 1065; 1104; 1551; 1733; 1793; 1959; 2097; 2562; 2832; 3116; 3133; 3188; 5675
Hpy188I	TCN!GA	14	585; 1339; 1941; 2604; 3243; 3852; 4036; 4380; 4733; 4834; 5313; 5447; 5800; 5878
Hpy188III	TC!NNGA	26	867; 1110; 1331; 1343; 1389; 2112; 2717; 3496; 3548; 3861; 3914; 4087; 4403; 4412; 4495; 4551; 4595; 4685; 4718; 4787; 5268; 5342; 5425; 5523; 5621; 5755
HpyAV	CCTTCNNNNNN!	5	1500; 1959; 4714; 4821; 5500
HpyAV	!NNNNNGAAGG	12	984; 2584; 2628; 2662; 2680; 3302; 4197; 4926; 4942; 5125; 5442; 5752
HpyCH4III	ACN!GT	17	76; 198; 269; 543; 581; 821; 1566; 2305; 2430; 3160; 4449; 4565; 4673; 4996; 5487; 5957; 6028
HpyCH4IV	A!CGT	22	122; 134; 175; 258; 339; 444; 677; 1061; 1169; 1370; 1529; 1812; 2312; 2570; 3129; 3141; 3184; 3294; 4185; 4372; 5153; 5286
HpyCH4V	TG!CA	23	681; 758; 1143; 1295; 1358; 1733; 2474; 2818; 2845; 2913; 3630; 3639; 3702; 3711; 3826; 3902; 3961; 4120; 4295; 4309; 5379; 5675; 6042
HpyF3I	C!TNAG	15	1216; 1336; 1613; 1818; 2071; 2180; 2479; 2501; 2700; 3549; 3851; 4732; 5181; 5304; 5713
HpyF10VI	GCNNNNN!NNGC	42	90; 212; 244; 283; 376; 400; 663; 704; 764; 777; 821; 1052; 1244; 1295; 1403; 1595; 2039; 2161; 2185; 2341; 2393; 2480; 2551; 3296; 3326; 3353; 3395; 3636; 3708; 3759; 3838; 4060; 4144; 4167; 4306; 4429; 4512; 4779; 4966; 5170; 5369; 5941
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 722; 4069; 4771; 4850
Hsp92II	CATG!	26	304; 364; 615; 849; 879; 1269; 1314; 1809; 1956; 2197; 2275; 2286; 2478; 3499; 3639; 3711; 3802; 3943; 4288; 4474; 4505; 4531; 4887; 5271; 5991; 6042
HspAI	G!CGC	28	595; 702; 872; 900; 1289; 1517; 2007; 2361; 3333; 3341; 3367; 3389; 3398; 3411; 3442; 4061; 4069; 4133; 4170; 4436; 4696; 4872; 4958; 5361; 5470; 5644; 5744; 5811
KasI	G!GCGCC	1	4068
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1330

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
KspI	CCGC!GG	1	942
Ksp22I	T!GATCA	1	2726
KspAI	GTT!AAC	1	2832
Kzo9I	!GATC	26	585; 659; 743; 1196; 1339; 1685; 2216; 2704; 2713; 2726; 3906; 3910; 3929; 4240; 4318; 4399; 4408; 4486; 4862; 4878; 5237; 5249; 5327; 5335; 5346; 5421
LguI	GCTCTTCN!	1	1609
LguI	!NNNNGAAGAGC	2	4413; 4623
LpnI	RGC!GCGY	9	596; 873; 1290; 1518; 2008; 3334; 3342; 4070; 5745
LpnPI	CCDGNNNNNNNNN!	83	102; 295; 614; 654; 777; 795; 907; 982; 1036; 1108; 1174; 1189; 1228; 1288; 1305; 1344; 1390; 1416; 1435; 1450; 1549; 1612; 1741; 1813; 1877; 1942; 2056; 2083; 2101; 2125; 2180; 2252; 2308; 2383; 2431; 2450; 2520; 2548; 2724; 2806; 3111; 3300; 3523; 3561; 3577; 3617; 3672; 3689; 3789; 3874; 3987; 4064; 4086; 4109; 4245; 4259; 4278; 4335; 4402; 4452; 4468; 4525; 4583; 4792; 4858; 4882; 4958; 5047; 5150; 5183; 5414; 5432; 5578; 5598; 5622; 5648; 5697; 5795; 5840; 5870; 5949; 5974; 6011
LpnPI	!NNNNNNNNNNNNNCHGG	76	75; 268; 552; 586; 626; 652; 724; 749; 768; 880; 955; 1009; 1081; 1132; 1162; 1261; 1316; 1363; 1392; 1505; 1571; 1613; 1705; 1729; 1766; 1831; 1858; 1915; 2107; 2137; 2378; 2423; 2493; 2550; 2696; 3152; 3272; 3329; 3392; 3590; 3602; 3662; 3674; 3906; 3951; 3994; 4036; 4058; 4086; 4133; 4195; 4217; 4307; 4374; 4397; 4441; 4536; 4555; 4580; 4729; 4830; 4873; 4930; 5020; 5123; 5150; 5168; 5404; 5441; 5594; 5620; 5760; 5778; 5813; 5894; 5947
Lsp1109I	GCAGCNNNNNNNN!	10	1155; 1307; 1629; 2375; 2857; 4142; 4184; 4705; 5158; 5658
Lsp1109I	!NNNNNNNNNNNGCTGC	11	758; 1629; 2278; 2322; 2610; 3351; 4016; 4200; 4293; 5359; 5565
LweI	GCATCNNNNN!	13	653; 989; 1367; 1442; 2147; 2375; 2417; 2885; 3648; 3720; 4368; 4432; 4707
LweI	!NNNNNNNNNGATGC	7	357; 1442; 1629; 4027; 4282; 4498; 5890
MabI	A!CCWGGT	2	2120; 3658
MaeI	C!TAG	8	592; 2717; 2918; 3336; 3892; 4907; 5241; 5494
MaeII	A!CGT	22	122; 134; 175; 258; 339; 444; 677; 1061; 1169; 1370; 1529; 1812; 2312; 2570; 3129; 3141; 3184; 3294; 4185; 4372; 5153; 5286
MaeIII	!GTNAC	16	61; 148; 497; 795; 1459; 2260; 2308; 2857; 3358; 3370; 4189; 4495; 5185; 5451; 5567; 5630
MalI	GA!TC	26	587; 661; 745; 1198; 1341; 1687; 2218; 2706; 2715; 2728; 3908; 3912; 3931; 4242; 4320; 4401; 4410; 4488; 4864; 4880; 5239; 5251; 5329; 5337; 5348; 5423
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	5	144; 197; 466; 540; 1716
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	4	157; 240; 426; 2309
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	3	1328; 3493; 4682
MbiI	GAG!CGG	2	3329; 4736
MboI	!GATC	26	585; 659; 743; 1196; 1339; 1685; 2216; 2704; 2713; 2726; 3906; 3910; 3929; 4240; 4318; 4399; 4408; 4486; 4862; 4878; 5237; 5249; 5327; 5335; 5346; 5421
MboII	GAAGANNNNNNNN!	9	861; 1648; 2626; 2695; 3325; 3553; 4430; 4640; 5259
MboII	!NNNNNNNTCTTC	9	855; 903; 1494; 1596; 1732; 4720; 4887; 5087; 5330
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2819
MfII	R!GATCY	11	585; 1339; 2704; 2713; 4240; 4486; 4878; 5237; 5249; 5335; 5346
MhII	GDGCH!C	23	653; 683; 782; 1175; 1274; 1415; 1535; 1667; 1735; 1898; 1937; 2088; 2129; 2389; 2514; 3260; 4015; 4108; 4182; 4372; 4434; 5144; 5677
MIsI	TGG!CCA	5	1376; 1448; 2155; 2452; 4151
MluI	A!CGCGT	1	2955
MluNI	TGG!CCA	5	1376; 1448; 2155; 2452; 4151
MlyI	GAGTCNNNNN!	3	1288; 3121; 3553
MlyI	!NNNNNGACTC	6	404; 1328; 1480; 3128; 4734; 5611
Mly113I	GG!CGCC	1	4069
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	1	3162
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	3	1682; 5594; 5778

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MnII	CCTC>NNNNNNN!	16	814; 919; 1806; 1921; 2005; 2064; 2159; 2276; 2432; 2788; 3852; 4670; 4876; 5190; 5560; 5884
MnII	!NNNNNNGAGG	31	541; 621; 702; 876; 939; 951; 1002; 1092; 1122; 1245; 1471; 1654; 1959; 2496; 2571; 2598; 2637; 2667; 2685; 2748; 3213; 3544; 3822; 3865; 3880; 3920; 3984; 4120; 4477; 4907; 5810
Mph1103I	ATGCA!T	3	3641; 3713; 6044
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1330
MroNI	G!CCGGC	4	640; 3286; 4569; 4852
MroXI	GAANN!NNTTC	2	859; 1782
MscI	TGG!CCA	5	1376; 1448; 2155; 2452; 4151
MseI	T!TAA	16	7; 2027; 2770; 2831; 2952; 2973; 2984; 2996; 3007; 3024; 3122; 3393; 5212; 5226; 5231; 5283
MslI	CAYNN!NNRTG	6	365; 793; 850; 970; 2431; 4506
MspI	C!CGG	23	601; 641; 764; 1331; 1536; 1736; 2711; 3287; 3974; 4051; 4073; 4101; 4232; 4322; 4389; 4570; 4845; 4853; 4945; 5419; 5609; 5635; 5782
Msp20I	TGG!CCA	5	1376; 1448; 2155; 2452; 4151
MspA1I	CMG!CKG	7	941; 1146; 1885; 3567; 4175; 5404; 5649
MspCI	C!TTAAG	0	
MspJI	CNNRRNNNNNNNN!	308	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; 653; 666; 679; 694; 711; 726; 747; 776; 789; 804; 817; 842; 856; 879; 892; 906; 927; 945; 969; 982; 996; 1017; 1035; 1048; 1069; 1087; 1107; 1122; 1140; 1159; 1173; 1188; 1201; 1227; 1241; 1258; 1276; 1304; 1318; 1343; 1357; 1381; 1394; 1415; 1434; 1449; 1462; 1476; 1526; 1540; 1566; 1594; 1611; 1624; 1638; 1658; 1671; 1692; 1708; 1726; 1740; 1756; 1774; 1793; 1812; 1830; 1845; 1858; 1875; 1893; 1910; 1924; 1941; 1965; 1999; 2016; 2033; 2047; 2082; 2100; 2113; 2129; 2147; 2164; 2179; 2192; 2206; 2225; 2240; 2255; 2279; 2295; 2317; 2332; 2364; 2382; 2401; 2430; 2449; 2465; 2487; 2502; 2519; 2536; 2558; 2577; 2607; 2621; 2641; 2712; 2729; 2742; 2757; 2776; 2793; 2806; 2847; 2861; 2874; 2892; 2930; 2945; 2963; 3004; 3028; 3048; 3066; 3087; 3110; 3142; 3157; 3179; 3197; 3210; 3231; 3248; 3261; 3274; 3290; 3303; 3333; 3348; 3373; 3391; 3404; 3419; 3443; 3457; 3481; 3506; 3522; 3560; 3576; 3615; 3629; 3643; 3671; 3687; 3701; 3715; 3744; 3757; 3778; 3787; 3809; 3839; 3855; 3873; 3903; 3926; 3950; 3974; 3993; 4021; 4047; 4063; 4076; 4099; 4113; 4133; 4146; 4160; 4179; 4193; 4206; 4222; 4237; 4250; 4266; 4281; 4297; 4322; 4341; 4357; 4370; 4383; 4401; 4415; 4429; 4445; 4467; 4483; 4502; 4524; 4540; 4563; 4582; 4596; 4612; 4626; 4646; 4662; 4675; 4697; 4730; 4744; 4764; 4777; 4791; 4845; 4858; 4881; 4894; 4913; 4930; 4957; 4993; 5026; 5045; 5070; 5091; 5118; 5131; 5148; 5162; 5177; 5193; 5253; 5278; 5294; 5316; 5329; 5343; 5374; 5388; 5413; 5431; 5446; 5459; 5478; 5491; 5506; 5535; 5554; 5572; 5597; 5612; 5631; 5647; 5666; 5684; 5700; 5714; 5733; 5760; 5783; 5805; 5824; 5839; 5852; 5869; 5889; 5916; 5929; 5948; 5973; 5996; 6010; 6023; 6040

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNYNNG	256	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; 623; 640; 664; 681; 700; 721; 741; 761; 778; 797; 816; 853; 880; 902; 919; 941; 970; 991; 1009; 1061; 1081; 1101; 1126; 1147; 1164; 1201; 1221; 1242; 1261; 1278; 1297; 1316; 1335; 1355; 1375; 1393; 1415; 1435; 1458; 1491; 1510; 1528; 1566; 1585; 1614; 1640; 1662; 1682; 1702; 1722; 1739; 1759; 1786; 1805; 1828; 1850; 1879; 1915; 1939; 1961; 1982; 2025; 2056; 2074; 2098; 2121; 2138; 2162; 2180; 2214; 2233; 2253; 2274; 2291; 2344; 2362; 2379; 2404; 2423; 2440; 2457; 2488; 2512; 2533; 2551; 2581; 2605; 2627; 2648; 2665; 2687; 2721; 2750; 2779; 2821; 2904; 2942; 2966; 2989; 3018; 3062; 3084; 3116; 3152; 3169; 3190; 3227; 3247; 3264; 3281; 3316; 3334; 3352; 3369; 3393; 3415; 3442; 3470; 3496; 3534; 3555; 3572; 3590; 3613; 3634; 3662; 3685; 3706; 3724; 3745; 3762; 3785; 3809; 3829; 3847; 3869; 3900; 3922; 3948; 3967; 3984; 4012; 4031; 4050; 4068; 4086; 4107; 4129; 4153; 4186; 4206; 4224; 4245; 4271; 4298; 4315; 4332; 4349; 4375; 4397; 4419; 4437; 4457; 4476; 4498; 4536; 4556; 4580; 4600; 4620; 4647; 4671; 4704; 4723; 4751; 4773; 4802; 4830; 4855; 4874; 4893; 4914; 4931; 4948; 4979; 5006; 5026; 5049; 5069; 5106; 5123; 5142; 5168; 5188; 5227; 5254; 5273; 5291; 5328; 5346; 5387; 5405; 5431; 5448; 5480; 5509; 5537; 5558; 5581; 5600; 5621; 5639; 5656; 5674; 5700; 5721; 5741; 5761; 5779; 5800; 5826; 5843; 5862; 5881; 5910; 5929; 5947; 5966; 5984; 6002; 6025
MspR9I	CC!NNGG	34	90; 283; 783; 793; 895; 970; 1024; 1096; 1177; 1276; 1378; 1423; 1536; 1537; 1873; 1930; 2122; 2438; 2449; 2508; 2518; 3605; 3660; 3677; 4073; 4233; 4456; 4846; 5035; 5138; 5610; 5828; 5841; 5962
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2819
MvaI	CC!WGGG	28	90; 283; 783; 793; 895; 970; 1024; 1096; 1177; 1276; 1378; 1423; 1873; 1930; 2122; 2438; 2449; 2508; 2518; 3605; 3660; 3677; 4456; 5035; 5138; 5828; 5841; 5962
Mva1269I	GAATGCN!	1	2820
Mva1269I	G!CATTC	1	2913
MvnI	CG!CG	18	60; 704; 941; 1259; 2957; 2993; 3369; 3389; 3413; 3444; 4135; 4436; 4874; 4958; 5021; 5090; 5363; 5944
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	42	90; 212; 244; 283; 376; 400; 663; 704; 764; 777; 821; 1052; 1244; 1295; 1403; 1595; 2039; 2161; 2185; 2341; 2393; 2480; 2551; 3296; 3326; 3353; 3395; 3636; 3708; 3759; 3838; 4060; 4144; 4167; 4306; 4429; 4512; 4779; 4966; 5170; 5369; 5941
NaeI	GCC!GGC	4	642; 3288; 4571; 4854
NarI	GG!CGCC	1	4069
NciI	CC!SGG	6	1536; 1537; 4073; 4233; 4846; 5610
NcoI	C!CATGG	5	360; 611; 2271; 3798; 4501
NdeI	CA!TATG	2	234; 2160
NdeII	!GATC	26	585; 659; 743; 1196; 1339; 1685; 2216; 2704; 2713; 2726; 3906; 3910; 3929; 4240; 4318; 4399; 4408; 4486; 4862; 4878; 5237; 5249; 5327; 5335; 5346; 5421
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	640; 3286; 4569; 4852
NheI	G!CTAGC	1	591
NlaIII	CATG!	26	304; 364; 615; 849; 879; 1269; 1314; 1809; 1956; 2197; 2275; 2286; 2478; 3499; 3639; 3711; 3802; 3943; 4288; 4474; 4505; 4531; 4887; 5271; 5991; 6042
NlaIV	GGN!NCC	23	467; 1188; 1559; 1590; 2085; 2126; 2318; 2386; 2435; 2706; 3224; 3245; 3257; 3448; 3609; 3681; 4070; 4105; 4953; 5032; 5077; 5920; 5959
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	6	1092; 1647; 2082; 2901; 3216; 4808
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 5880
Nii3877I	CYCGR!G	4	884; 1347; 1539; 1662
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3858; 4294
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	3823
NmeDI	RCCGGYNNNNNN!	8	612; 652; 775; 1747; 3298; 4400; 4581; 4864
NmeDI	!NNNNNNNNNNNNRCCGGY	8	587; 627; 750; 1722; 3273; 4375; 4556; 4839

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmuCI	!GTSAC	7	795; 1459; 2260; 2308; 3358; 4189; 4495
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4171
NsiI	ATGCA!T	3	3641; 3713; 6044
NspI	RCATG!Y	5	2478; 3639; 3711; 4474; 5991
NspV	TT!CGAA	1	4751
OliI	CACNN!NNGTG	3	793; 970; 2431
PabI	GTA!C	14	220; 245; 300; 333; 384; 541; 819; 932; 1043; 1325; 2303; 2460; 2570; 4376
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	2478; 3639; 3711; 4474
PaeR7I	C!TCGAG	1	1343
PagI	T!CATGA	2	3495; 5267
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1176; 5034; 5137
PauI	G!CGCGC	0	
PceI	AGG!CCT	2	2506; 3890
PciI	A!CATGT	1	5987
PciSI	GCTCTTCN!	1	1609
PciSI	!NNNNGAAGAGC	2	4413; 4623
PcsI	WCGNNNN!NNNCGW	9	644; 1256; 1313; 4363; 4440; 4683; 4757; 5150; 5668
PctI	GAATGCN!	1	2820
PctI	G!CATTC	1	2913
PdiI	GCC!GGC	4	642; 3288; 4571; 4854
PdmI	GAANN!NNTTC	2	859; 1782
PfeI	G!AWTC	6	2659; 4554; 4688; 4798; 4835; 6013
Pfi23II	C!GTACG	0	
PfifI	GACN!NNGTC	1	4187
PfIMI	CCANNNN!NTGG	3	1035; 1311; 2376
PfoI	T!CCNGGA	3	893; 1274; 4844
PhoI	GG!CC	34	84; 277; 686; 786; 1028; 1084; 1094; 1150; 1187; 1255; 1376; 1448; 1969; 2155; 2452; 2506; 2608; 3035; 3177; 3832; 3838; 3847; 3890; 3977; 4151; 4542; 4569; 5078; 5135; 5168; 5513; 5947; 5965; 5976
PinAI	A!CCGGT	2	600; 1735
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	2	1259; 4450
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	2516; 4015; 4270
PleI	GAGTCNNNN!	3	1287; 3120; 3552
PleI	!NNNNNGACTC	6	404; 1328; 1480; 3128; 4734; 5611
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	1530
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	1	1530
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	3151
PpiI	!NNNNNNNNNGAGNNNNNGTTC	4	619; 733; 937; 5281
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	4	651; 765; 969; 5313
PpiI	!NNNNNNNGAACNNNNNNCTC	1	3119
Ppsi	GAGTCNNNN!	3	1287; 3120; 3552
Ppsi	!NNNNNGACTC	6	404; 1328; 1480; 3128; 4734; 5611
Ppu10I	A!TGCAT	3	3637; 3709; 6040
Ppu21I	YAC!GTR	5	340; 1530; 2571; 3185; 4373
PpuMI	RG!GWCCY	0	
Psci	A!CATGT	1	5987
PshAI	GACNN!NNGTC	1	1982
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2852; 3057
Psp03I	GGWC!C	5	1245; 1707; 2523; 4588; 5033
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	28	88; 281; 781; 791; 893; 968; 1022; 1094; 1175; 1274; 1376; 1421; 1871; 1928; 2120; 2436; 2447; 2506; 2516; 3603; 3658; 3675; 4454; 5033; 5136; 5826; 5839; 5960
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1415
PspCI	CAC!GTG	1	1530

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspEI	G!GTNACC	1	795
PspGI	!CCWGG	28	88; 281; 781; 791; 893; 968; 1022; 1094; 1175; 1274; 1376; 1421; 1871; 1928; 2120; 2436; 2447; 2506; 2516; 3603; 3658; 3675; 4454; 5033; 5136; 5826; 5839; 5960
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	23	467; 1188; 1559; 1590; 2085; 2126; 2318; 2386; 2435; 2706; 3224; 3245; 3257; 3448; 3609; 3681; 4070; 4105; 4953; 5032; 5077; 5920; 5959
PspOMI	G!GGCCC	0	
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	4	125; 2034; 3799; 4798
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	2	1158; 4201
PspPI	G!GNCC	16	83; 276; 785; 1026; 1186; 1242; 1254; 1704; 2520; 2607; 3176; 4585; 5030; 5076; 5134; 5167
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	4	1890; 3622; 3694; 5200
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	3	2487; 3535; 4730
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	5170
PstI	CTGCA!G	1	1297
PstNI	CAGNNN!CTG	3	1292; 5170; 5578
PsuI	R!GATCY	11	585; 1339; 2704; 2713; 4240; 4486; 4878; 5237; 5249; 5335; 5346
PsyI	GACN!NNGTC	1	4187
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	4	1146; 1885; 3567; 4175
RcaI	T!CATGA	2	3495; 5267
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4584
RceI	!NNNNNNNNNNNNNNNNNGTCCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	3	1578; 1936; 2798
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	14	219; 244; 299; 332; 383; 540; 818; 931; 1042; 1324; 2302; 2459; 2569; 4375
RsaNI	G!TAC	14	218; 243; 298; 331; 382; 539; 817; 930; 1041; 1323; 2301; 2458; 2568; 4374
RseI	CAYNN!NNRTG	6	365; 793; 850; 970; 2431; 4506
RsrII	CG!GWCCG	1	4585
Rsr2I	CG!GWCCG	1	4585
SacI	GAGCT!C	1	1415
SacII	CCGC!GG	1	942
SalI	G!TCGAC	0	
SapI	GCTCTCN!	1	1609
SapI	!NNNNGAAGAGC	2	4413; 4623
SaqAI	T!TAA	16	7; 2027; 2770; 2831; 2952; 2973; 2984; 2996; 3007; 3024; 3122; 3393; 5212; 5226; 5231; 5283
SatI	GC!NGC	41	705; 772; 942; 1134; 1137; 1144; 1296; 1618; 1643; 2292; 2336; 2364; 2624; 2846; 3365; 3387; 3401; 3839; 3978; 4030; 4041; 4131; 4136; 4173; 4214; 4301; 4304; 4307; 4543; 4639; 4680; 4694; 4808; 5147; 5162; 5373; 5579; 5582; 5647; 5790; 5945
Sau96I	G!GNCC	16	83; 276; 785; 1026; 1186; 1242; 1254; 1704; 2520; 2607; 3176; 4585; 5030; 5076; 5134; 5167
Sau3AI	!GATC	26	585; 659; 743; 1196; 1339; 1685; 2216; 2704; 2713; 2726; 3906; 3910; 3929; 4240; 4318; 4399; 4408; 4486; 4862; 4878; 5237; 5249; 5327; 5335; 5346; 5421
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	1288; 3121; 3553
SchI	!NNNNNGACTC	6	404; 1328; 1480; 3128; 4734; 5611
SciI	CTC!GAG	1	1345
ScrFI	CC!NGG	34	90; 283; 783; 793; 895; 970; 1024; 1096; 1177; 1276; 1378; 1423; 1536; 1537; 1873; 1930; 2122; 2438; 2449; 2508; 2518; 3605; 3660; 3677; 4073; 4233; 4456; 4846; 5035; 5138; 5610; 5828; 5841; 5962
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	921; 3647; 3719; 3888; 5830
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	1253; 4224; 4709
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	23	653; 683; 782; 1175; 1274; 1415; 1535; 1667; 1735; 1898; 1937; 2088; 2129; 2389; 2514; 3260; 4015; 4108; 4182; 4372; 4434; 5144; 5677
SelI	!CGCG	18	58; 702; 939; 1257; 2955; 2991; 3367; 3387; 3411; 3442; 4133; 4434; 4872; 4956; 5019; 5088; 5361; 5942
SetI	ASST!	95	125; 137; 178; 261; 308; 342; 447; 552; 568; 635; 668; 680; 740; 773; 811; 950; 989; 1037; 1048; 1064; 1103; 1148; 1172; 1217; 1222; 1322; 1373; 1415; 1501; 1532; 1594; 1604; 1622; 1697; 1721; 1768; 1798; 1815; 1847; 1877; 1887; 1997; 2017; 2027; 2102; 2123; 2204; 2315; 2405; 2450; 2459; 2469; 2537; 2573; 2651; 2759; 2780; 2789; 2801; 2850; 3017; 3132; 3144; 3187; 3224; 3274; 3297; 3421; 3569; 3664; 3857; 3970; 4098; 4177; 4188; 4260; 4331; 4375; 4635; 4781; 4825; 5156; 5187; 5246; 5289; 5432; 5453; 5552; 5689; 5704; 5723; 5735; 5779; 5825; 5876
SexAI	A!CCWGGT	2	2120; 3658
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	13	653; 989; 1367; 1442; 2147; 2375; 2417; 2885; 3648; 3720; 4368; 4432; 4707
SfaNI	!NNNNNNNNNGATGC	7	357; 1442; 1629; 4027; 4282; 4498; 5890
SfcI	C!TRYAG	6	1293; 1886; 2207; 3404; 5531; 5722
SfiI	GGCCNNNN!NGGCC	1	3844
SfoI	GGC!GCC	1	4070
Sfr274I	C!TCGAG	1	1343
Sfr303I	CCGC!GG	1	942
SfuI	TT!CGAA	1	4751
SgeI	CNNGNNNNNNNN!	247	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 639; 653; 666; 679; 694; 711; 726; 747; 776; 789; 804; 842; 858; 879; 892; 906; 928; 945; 969; 982; 996; 1017; 1035; 1048; 1087; 1107; 1122; 1140; 1159; 1173; 1188; 1201; 1227; 1251; 1268; 1287; 1304; 1318; 1343; 1357; 1381; 1394; 1415; 1434; 1449; 1469; 1526; 1540; 1566; 1598; 1611; 1624; 1640; 1670; 1692; 1708; 1728; 1748; 1764; 1793; 1812; 1845; 1858; 1876; 1941; 1965; 2008; 2055; 2082; 2100; 2124; 2147; 2164; 2179; 2206; 2240; 2259; 2279; 2295; 2317; 2370; 2405; 2430; 2449; 2466; 2487; 2519; 2538; 2559; 2577; 2607; 2621; 2641; 2723; 2776; 2805; 2847; 2930; 2968; 3004; 3088; 3110; 3142; 3179; 3197; 3216; 3231; 3273; 3290; 3307; 3342; 3356; 3373; 3395; 3419; 3443; 3508; 3522; 3560; 3576; 3616; 3629; 3648; 3671; 3688; 3701; 3720; 3750; 3771; 3788; 3811; 3846; 3873; 3904; 3926; 3952; 3974; 3993; 4021; 4057; 4076; 4099; 4113; 4133; 4146; 4160; 4179; 4193; 4212; 4244; 4258; 4271; 4297; 4328; 4341; 4358; 4375; 4389; 4406; 4424; 4439; 4467; 4483; 4502; 4524; 4540; 4563; 4582; 4607; 4626; 4646; 4673; 4697; 4730; 4749; 4777; 4791; 4857; 4881; 4896; 4919; 4940; 4957; 5005; 5032; 5046; 5075; 5099; 5132; 5149; 5169; 5182; 5195; 5253; 5280; 5299; 5329; 5354; 5374; 5388; 5413; 5431; 5468; 5506; 5535; 5563; 5577; 5597; 5612; 5633; 5647; 5666; 5684; 5700; 5740; 5760; 5787; 5805; 5826; 5839; 5852; 5869; 5893; 5916; 5948; 5973; 6000; 6022

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	212	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 627; 649; 668; 685; 721; 750; 768; 816; 853; 880; 902; 919; 943; 970; 991; 1009; 1061; 1081; 1101; 1126; 1147; 1175; 1201; 1225; 1242; 1261; 1278; 1297; 1317; 1337; 1355; 1375; 1393; 1415; 1435; 1500; 1521; 1540; 1572; 1598; 1618; 1644; 1666; 1702; 1722; 1767; 1786; 1819; 1850; 1915; 1939; 1982; 2029; 2056; 2074; 2098; 2121; 2138; 2180; 2214; 2233; 2253; 2274; 2291; 2344; 2379; 2404; 2423; 2440; 2461; 2493; 2512; 2533; 2551; 2581; 2615; 2697; 2750; 2779; 2821; 2904; 2942; 2978; 3062; 3084; 3116; 3153; 3171; 3190; 3247; 3264; 3281; 3316; 3334; 3354; 3374; 3393; 3417; 3482; 3534; 3590; 3622; 3645; 3662; 3694; 3724; 3745; 3762; 3785; 3820; 3847; 3878; 3900; 3926; 3948; 3967; 3995; 4031; 4050; 4073; 4094; 4112; 4129; 4153; 4186; 4218; 4245; 4271; 4302; 4332; 4349; 4375; 4398; 4419; 4441; 4461; 4481; 4498; 4537; 4556; 4581; 4600; 4620; 4647; 4671; 4704; 4723; 4751; 4773; 4831; 4855; 4874; 4893; 4914; 4931; 4979; 5006; 5026; 5049; 5073; 5106; 5123; 5143; 5169; 5227; 5254; 5273; 5303; 5328; 5348; 5387; 5405; 5442; 5480; 5509; 5537; 5558; 5586; 5607; 5640; 5658; 5714; 5734; 5761; 5779; 5800; 5826; 5843; 5867; 5890; 5922; 5947; 5974; 5996; 6025
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	942
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 3216; 5003; 5796
SimI	!GACCC	7	106; 935; 1112; 2262; 4497; 5065; 5313
SinI	G!GWCC	5	1242; 1704; 2520; 4585; 5030
SlaI	C!TCGAG	1	1343
SmaI	CCC!GGG	1	1537
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	6	365; 793; 850; 970; 2431; 4506
SmlI	C!TYRAG	6	1343; 2629; 4460; 5342; 5619; 5881
SmoI	C!TYRAG	6	1343; 2629; 4460; 5342; 5619; 5881
SmuI	CCCGCNNNN!	13	93; 119; 286; 838; 946; 1123; 1264; 2143; 3391; 3746; 3767; 4963; 5095
SmuI	!NNNNNNGCGGG	5	3322; 4192; 4729; 4867; 5014
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	2478; 3639; 3711; 4474
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	12	18; 1709; 2107; 2819; 2883; 2961; 2987; 2998; 3645; 3717; 3809; 5227
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	2	2506; 3890
SsiI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 831; 939; 978; 1116; 1245; 1257; 1326; 1596; 2031; 2136; 3384; 3387; 3401; 3491; 3739; 3751; 3760; 3772; 3782; 3793; 3839; 3978; 4041; 4543; 4588; 4654; 4680; 4805; 4808; 4956; 5088; 5395; 5539; 6035
SsiI	G!CGG	27	370; 403; 528; 704; 941; 1133; 1136; 3329; 3356; 3444; 3554; 4135; 4199; 4300; 4303; 4583; 4638; 4736; 4874; 5021; 5161; 5404; 5649; 5770; 5789; 5916; 5944
SspI	AAT!ATT	2	2977; 3530
SspDI	G!GCGCC	1	4068
SspD5I	GGTGANNNNNNN!	11	376; 807; 960; 984; 1113; 2265; 2320; 2587; 2689; 5140; 5256
SspD5I	!NNNNNNNNTCACC	7	797; 1061; 1784; 1904; 2210; 3185; 4246
SstI	GAGCT!C	1	1415
SstII	CCGC!GG	1	942
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	29	92; 118; 285; 659; 782; 837; 887; 945; 1082; 1122; 1196; 1263; 1448; 1542; 1665; 2142; 2616; 3268; 3390; 3745; 3766; 4079; 4482; 4621; 4692; 4962; 5094; 5324; 5762
Sth132I	!NNNNNNNNCGGG	20	15; 407; 470; 1505; 1528; 3269; 3321; 3422; 4149; 4191; 4224; 4728; 4837; 4866; 5013; 5117; 5148; 5601; 5645; 5853

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sth302II	CC!GG	23	602; 642; 765; 1332; 1537; 1737; 2712; 3288; 3975; 4052; 4074; 4102; 4233; 4323; 4390; 4571; 4846; 4854; 4946; 5420; 5610; 5636; 5783
StrI	C!TCGAG	1	1343
StsI	GGATGNNNNNNNNNN!	5	2596; 3937; 4394; 4419; 4873
StsI	!NNNNNNNNNNNNNNCATCC	8	876; 1005; 1350; 1419; 1893; 2124; 2352; 3741
StuI	AGG!CCT	2	2506; 3890
StyI	C!CWWGG	8	360; 611; 2271; 2453; 3798; 3891; 4501; 4906
StyD4I	!CCNGG	34	88; 281; 781; 791; 893; 968; 1022; 1094; 1175; 1274; 1376; 1421; 1534; 1535; 1871; 1928; 2120; 2436; 2447; 2506; 2516; 3603; 3658; 3675; 4071; 4231; 4454; 4844; 5033; 5136; 5608; 5826; 5839; 5960
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	17	76; 198; 269; 543; 581; 821; 1566; 2305; 2430; 3160; 4449; 4565; 4673; 4996; 5487; 5957; 6028
TaiI	ACGT!	22	125; 137; 178; 261; 342; 447; 680; 1064; 1172; 1373; 1532; 1815; 2315; 2573; 3132; 3144; 3187; 3297; 4188; 4375; 5156; 5289
TaqI	T!CGA	18	662; 956; 983; 1127; 1344; 1997; 2003; 3218; 3909; 4182; 4338; 4362; 4398; 4560; 4751; 4796; 5051; 5889
TaqII	GACCGANNNNNNNNNN!	5	1243; 1721; 3089; 4106; 4774
TaqII	!NNNNNNNNNTCGGTC	1	5018
TaqII	CACCCANNNNNNNNNN!	2	1318; 1933
TaqII	!NNNNNNNNNTGGGTG	4	172; 2563; 3973; 4565
TasI	!AATT	12	18; 1709; 2107; 2819; 2883; 2961; 2987; 2998; 3645; 3717; 3809; 5227
TatI	W!GTACW	6	217; 297; 330; 381; 929; 1040
TauI	GCSG!C	19	707; 944; 1136; 1139; 3389; 3403; 3841; 3980; 4043; 4138; 4303; 4306; 4545; 4641; 4682; 4810; 5164; 5792; 5947
TfiI	G!AWTC	6	2659; 4554; 4688; 4798; 4835; 6013
TliI	C!TCGAG	1	1343
TruII	T!TAA	16	7; 2027; 2770; 2831; 2952; 2973; 2984; 2996; 3007; 3024; 3122; 3393; 5212; 5226; 5231; 5283
Tru9I	T!TAA	16	7; 2027; 2770; 2831; 2952; 2973; 2984; 2996; 3007; 3024; 3122; 3393; 5212; 5226; 5231; 5283
TscAI	CASTGNN!	13	826; 1512; 1590; 1735; 2067; 2397; 2433; 2569; 2915; 4198; 5308; 5579; 5592
TseI	G!CWGC	22	771; 1143; 1295; 1617; 1642; 2291; 2335; 2363; 2623; 2845; 3364; 4029; 4130; 4172; 4213; 4306; 4693; 5146; 5372; 5578; 5581; 5646
TsoI	TARCCANNNNNNNNNN!	3	2056; 3041; 3388
TsoI	!NNNNNNNNNTGGYTA	3	604; 2846; 4598
Tsp45I	!GTSAC	7	795; 1459; 2260; 2308; 3358; 4189; 4495
Tsp509I	!AATT	12	18; 1709; 2107; 2819; 2883; 2961; 2987; 2998; 3645; 3717; 3809; 5227
TspDTI	ATGAANNNNNNNNNN!	6	862; 1589; 2210; 2827; 4128; 4832
TspDTI	!NNNNNNNNNTTCAT	6	26; 741; 1941; 4546; 5002; 5209
TspEI	!AATT	12	18; 1709; 2107; 2819; 2883; 2961; 2987; 2998; 3645; 3717; 3809; 5227
TspGWI	ACGGANNNNNNNNNN!	1	4944
TspGWI	!NNNNNNNNNTCCGT	1	1272
TspMI	C!CCGGG	1	1535
TspRI	CASTGNN!	13	826; 1512; 1590; 1735; 2067; 2397; 2433; 2569; 2915; 4198; 5308; 5579; 5592
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	4187
Tth111II	CAARCANNNNNNNNNN!	3	856; 1540; 5396
Tth111II	!NNNNNNNNNTGYTTG	5	1534; 2216; 4504; 5364; 5403
UnbI	!GGNCC	16	82; 275; 784; 1025; 1185; 1241; 1253; 1703; 2519; 2606; 3175; 4584; 5029; 5075; 5133; 5166
Van91I	CCANNNN!NTGG	3	1035; 1311; 2376
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	3	679; 1731; 5673
VpaK11AI	!GGWCC	5	1241; 1703; 2519; 4584; 5029

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
VpaK11BI	G!GWCC	5	1242; 1704; 2520; 4585; 5030
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	2	2452; 2632
XapI	R!AATTY	5	1709; 2107; 2883; 2987; 2998
XbaI	T!CTAGA	1	2716
XceI	RCATG!Y	5	2478; 3639; 3711; 4474; 5991
XcmI	CCANNNNN!NNNNTGG	3	1092; 1173; 1768
XhoI	C!TCGAG	1	1343
XhoII	R!GATCY	11	585; 1339; 2704; 2713; 4240; 4486; 4878; 5237; 5249; 5335; 5346
XmaI	C!CCGGG	1	1535
XmaJI	C!CTAGG	2	3891; 4906
XmiI	GT!MKAC	3	1064; 1550; 1958
XmnI	GAANN!NNTTC	2	859; 1782
XspI	C!TAG	8	592; 2717; 2918; 3336; 3892; 4907; 5241; 5494
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3641; 3713; 6044