

peTurboYFP-dest1 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2808; 3013
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	3096; 4052; 5841
AatI	AGG!CCT	1	3846
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	640
AccII	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1558; 2949; 3325; 3345; 3369; 3400; 4091; 4392; 4830; 4914; 4977; 5046; 5319; 5900
AccIII	T!CCGGA	1	1393
Acc16I	TGC!GCA	1	4127
Acc36I	ACCTGCNNNN!	2	4293; 4743
Acc36I	!NNNNNNNNNGCAGGT	1	3912
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	7	465; 645; 688; 877; 3178; 4024; 4059
AccB7I	CCANNNN!NTGG	1	1080
AccBSI	CCG!CTC	2	3449; 4638
AccBSI	GAG!CGG	3	1499; 3285; 4692
AceIII	CAGCTCNNNNNNN!	2	2454; 2981
AceIII	!NNNNNNNNNNNGAGCTG	3	552; 895; 915
AciI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 649; 765; 996; 1320; 1365; 1441; 1556; 1813; 3340; 3343; 3357; 3447; 3695; 3707; 3716; 3728; 3738; 3749; 3795; 3934; 3997; 4499; 4544; 4610; 4636; 4761; 4764; 4912; 5044; 5351; 5495; 5991
AciI	G!CGG	32	370; 403; 528; 651; 686; 767; 1244; 1247; 1447; 1453; 1499; 1552; 3285; 3312; 3400; 3510; 4091; 4155; 4256; 4259; 4539; 4594; 4692; 4830; 4977; 5117; 5360; 5605; 5726; 5745; 5872; 5900
AcI	AA!CGTT	0	
AcIWI	GGATCNNNN!	11	668; 1546; 1584; 1740; 3893; 4204; 4450; 4842; 5201; 5299; 5385
AcIWI	!NNNNNGATCC	8	580; 655; 705; 1571; 4269; 4813; 5200; 5297
AcoI	Y!GGCCR	9	747; 1050; 1071; 1211; 1553; 3931; 4105; 4496; 4523
AcsI	R!AATTY	5	629; 2493; 2839; 2943; 2954
AcuI	CTGAAGNNNNNNNNNNNNNNNNNN!	5	931; 1174; 1357; 4171; 4603
AcuI	!NNNNNNNNNNNNNNNCTTCAG	3	741; 1573; 5401
AcvI	CAC!GTG	4	1077; 1260; 1290; 1573
AcyI	GR!CGYC	10	122; 175; 258; 444; 689; 878; 1385; 4025; 4727; 4806
AdeI	CACNNN!GTG	1	3141
AfaI	GT!AC	15	219; 244; 299; 332; 383; 540; 647; 898; 1030; 1123; 1270; 1680; 1922; 2054; 4331
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	24	49; 720; 771; 845; 1002; 1080; 1243; 1446; 2072; 3037; 3363; 3755; 4006; 4550; 4831; 4863; 4995; 5030; 5080; 5112; 5465; 5744; 5910; 5928
AflIII	C!TTAAG	1	2907
AflIII	A!CRYGT	1	5943
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	9	990; 1062; 1101; 1167; 3436; 3480; 3490; 3903; 5479
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Ajnl	!CCWGG	17	88; 281; 844; 854; 1052; 1490; 2446; 2551; 3559; 3614; 3631; 4410; 4989; 5092; 5782; 5795; 5916
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	856
AlfI	GCANNNNNTGCNNNNNNNNNN!	2	3599; 3671
AlfI	!NNNNNNNNNGCANNNNNTGC	2	3565; 3637
AloI	GAACNNNNNTCCNNNNNNNNNN!	1	3107
AloI	!NNNNNNNGGANNNNNGTTC	1	796
AloI	GGANNNNNGTTCNNNNNNNNNN!	1	828
AloI	!NNNNNNNGAACNNNNNTCC	1	3075
AluI	AG!CT	26	566; 618; 624; 909; 929; 1044; 1283; 1296; 1406; 1567; 2327; 2338; 2395; 2444; 2574; 2804; 2971; 3228; 3523; 3811; 4131; 4589; 5386; 5643; 5689; 5779
AluBI	AG!CT	26	566; 618; 624; 909; 929; 1044; 1283; 1296; 1406; 1567; 2327; 2338; 2395; 2444; 2574; 2804; 2971; 3228; 3523; 3811; 4131; 4589; 5386; 5643; 5689; 5779
AlwI	GGATCNNNN!	11	668; 1546; 1584; 1740; 3893; 4204; 4450; 4842; 5201; 5299; 5385
AlwI	!NNNNNGATCC	8	580; 655; 705; 1571; 4269; 4813; 5200; 5297
Alw21I	GWGCW!C	6	620; 853; 1259; 4138; 4328; 5633
Alw26I	GTCTCN!	3	434; 1417; 1731
Alw26I	!NNNNNGAGAC	5	1336; 3449; 3867; 4886; 5014
Alw44I	G!TGCAC	2	1255; 5629
AlwNI	CAGNNN!CTG	3	2447; 5126; 5534
Ama87I	C!YCGRG	4	613; 656; 904; 1264
Aor13HI	T!CCGGA	1	1393
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNNN!TGC	4	1526; 3593; 3665; 5127
ApaLI	G!TGCAC	2	1255; 5629
ApeKI	G!CWGC	22	683; 929; 1022; 1190; 1473; 1519; 1567; 2324; 2514; 2801; 3320; 3985; 4086; 4128; 4169; 4262; 4649; 5102; 5328; 5534; 5537; 5602
ApoI	R!AATTY	5	629; 2493; 2839; 2943; 2954
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4540
ApyPI	!NNNNNNNNNNNNNNNNNGTTCGAT	3	4334; 4987; 5825
AquI	GCCGNACNNNNNNNNNNNNNNNNNN!	1	4424
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	878
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	1	3853
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTTCCYC	2	2414; 4595
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	29	586; 610; 661; 711; 1135; 1182; 1216; 1315; 1418; 1539; 1577; 1733; 2683; 3863; 3867; 3886; 4197; 4275; 4356; 4365; 4443; 4819; 4835; 5194; 5206; 5284; 5292; 5303; 5378
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4143
Asp700I	GAANN!NNTTC	1	916
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	3847; 4862
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	29	597; 691; 880; 959; 1000; 1162; 1352; 1354; 1458; 3291; 3299; 3325; 3347; 3356; 3369; 3400; 4019; 4027; 4091; 4128; 4394; 4654; 4830; 4916; 5319; 5428; 5602; 5702; 5769

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AspS9I	G!GNCC	17	83; 276; 654; 901; 1249; 1506; 1606; 2399; 2474; 2555; 2655; 3132; 4541; 4986; 5032; 5090; 5123
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 4707
AsuC2I	CC!SGG	6	657; 658; 4029; 4189; 4802; 5566
AsuHPI	GGTGANNNNNNNN!	6	376; 870; 1017; 1606; 5096; 5212
AsuHPI	!NNNNNNNTCACC	8	957; 1098; 1176; 1309; 1504; 2489; 3142; 4203
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	613; 656; 904; 1264
AvaII	G!GWCC	4	1506; 1606; 4541; 4986
AviII	TGC!GCA	1	4127
AvrII	C!CTAGG	2	3847; 4862
AxyI	CC!TNAGG	2	3505; 5137
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	9	657; 839; 845; 1259; 1265; 1491; 3971; 4064; 5633
BalI	TGG!CCA	4	749; 1052; 1073; 4107
BamHI	G!GATCC	2	660; 1576
BanI	G!GYRCC	7	465; 645; 688; 877; 3178; 4024; 4059
BanII	GRGCY!C	5	620; 657; 3216; 4390; 5100
BanIII	AT!CGAT	1	3865
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	936
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	904
BasI	CCANNNN!NTGG	1	1080
BauI	C!ACGAG	3	1177; 4743; 5770
BauI	C!TCGTG	1	4617
BbeI	GGCGC!C	3	692; 881; 4028
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	4	1077; 1260; 1290; 1573
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	4	936; 3595; 3667; 4430
BbvI	GCAGCNNNNNN!	11	695; 1034; 1202; 1531; 2336; 2813; 4098; 4140; 4661; 5114; 5614
BbvI	!NNNNNNNNNNNGCTGC	10	916; 1460; 1554; 2501; 3307; 3972; 4156; 4249; 5315; 5521
Bbv12I	GWGCW!C	6	620; 853; 1259; 4138; 4328; 5633
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	7	970; 1246; 2485; 3155; 3719; 4245; 4747
BccI	!NNNNNGATGG	10	723; 739; 934; 973; 1063; 1459; 1497; 3123; 3903; 4331
BceAI	ACGGCNNNNNNNNNN!	7	720; 795; 891; 915; 1164; 4451; 4938
BceAI	!NNNNNNNNNNNGCCGT	4	1339; 3166; 3984; 5443
BcefI	ACGGCNNNNNNNNNN!	7	720; 795; 891; 915; 1164; 4451; 4938
BcefI	!NNNNNNNNNNNGCCGT	4	1340; 3167; 3985; 5444
BcgI	CGANNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3454; 4244; 5745
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	6	657; 658; 4029; 4189; 4802; 5566
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNN!	1	5878
BdaI	!NNNNNNNNNTGANNNNNTCA	1	5844
BfaI	C!TAG	11	592; 1535; 1918; 2396; 2680; 2874; 3292; 3848; 4863; 5197; 5450
BfiI	ACTGGGNNNN!	2	2647; 3974
BfiI	!NNNNCCAGT	4	289; 804; 876; 3726

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BfmI	C!TRYAG	5	634; 1517; 3360; 5487; 5678
BfoI	RGCGC!Y	8	598; 692; 881; 1163; 3292; 3300; 4028; 5703
BfrI	C!TTAAG	1	2907
BfuI	GTATCCNNNNNN!	3	3454; 4244; 5745
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4293; 4743
BfuAI	!NNNNNNNNGCAGGT	1	3912
BfuCI	!GATC	29	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1417; 1538; 1576; 1732; 2682; 3862; 3866; 3885; 4196; 4274; 4355; 4364; 4442; 4818; 4834; 5193; 5205; 5283; 5291; 5302; 5377
BglI	GCCNNNN!NGGC	4	90; 212; 283; 3800
BglII	A!GATCT	2	609; 1417
BisI	GC!NGC	45	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1454; 1474; 1520; 1553; 1556; 1568; 2325; 2515; 2802; 3321; 3343; 3357; 3795; 3934; 3986; 3997; 4087; 4092; 4129; 4170; 4257; 4260; 4263; 4499; 4595; 4636; 4650; 4764; 5103; 5118; 5329; 5535; 5538; 5603; 5746; 5901
BlnI	C!CTAGG	2	3847; 4862
BlpI	GC!TNAGC	1	1297
BlsI	GCN!GC	45	685; 688; 769; 931; 1024; 1192; 1246; 1249; 1366; 1455; 1475; 1521; 1554; 1557; 1569; 2326; 2516; 2803; 3322; 3344; 3358; 3796; 3935; 3987; 3998; 4088; 4093; 4130; 4171; 4258; 4261; 4264; 4500; 4596; 4637; 4651; 4765; 5104; 5119; 5330; 5536; 5539; 5604; 5747; 5902
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	4	1506; 1606; 4541; 4986
Bme1390I	CC!NGG	23	90; 283; 657; 658; 846; 856; 1054; 1492; 2448; 2553; 3561; 3616; 3633; 4029; 4189; 4412; 4802; 4991; 5094; 5566; 5784; 5797; 5918
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	613; 656; 904; 1264
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	17	84; 277; 655; 902; 1250; 1507; 1607; 2400; 2475; 2556; 2656; 3133; 4542; 4987; 5033; 5091; 5124
BmiI	GGN!NCC	25	467; 647; 655; 662; 690; 879; 903; 1251; 1392; 1578; 1607; 2608; 3180; 3201; 3213; 3404; 3565; 3637; 4026; 4061; 4909; 4988; 5033; 5876; 5915
BmrI	ACTGGGNNNNN!	2	2647; 3974
BmrI	!NNNNCCAGT	4	289; 804; 876; 3726
BmrFI	CC!NGG	23	90; 283; 657; 658; 846; 856; 1054; 1492; 2448; 2553; 3561; 3616; 3633; 4029; 4189; 4412; 4802; 4991; 5094; 5566; 5784; 5797; 5918
BmsI	GCATCNNNNN!	8	770; 1721; 2841; 3604; 3676; 4324; 4388; 4663
BmsI	!NNNNNNNNGATGC	7	357; 774; 795; 3983; 4238; 4454; 5846
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	2647; 3974
BmuI	!NNNNCCAGT	4	289; 804; 876; 3726
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpII	GAGNNNNNCTCNNNNNNNNNNNNN!	2	3814; 4713
BpII	!NNNNNNNNGAGNNNNNNCTC	2	3782; 4681
BpmI	CTGGAGNNNNNNNNNNNNNNNNN!	3	867; 1114; 4865
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	4808
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 4707
Bpu1102I	GC!TNAGC	1	1297
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNNN!	3	2680; 5319; 5858
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	604; 4401; 5560
BpuMI	CC!SGG	6	657; 658; 4029; 4189; 4802; 5566
BpvUI	CGAT!CG	0	

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BsaI	GGTCTCN!	1	1417
BsaI	!NNNNNGAGACC	2	1336; 5014
Bsa29I	AT!CGAT	1	3865
BsaAI	YAC!GTR	9	340; 720; 948; 1077; 1260; 1290; 1573; 3141; 4329
BsaBI	GATNN!NNATC	2	2687; 3884
BsaHI	GR!CGYC	10	122; 175; 258; 444; 689; 878; 1385; 4025; 4727; 4806
BsaJI	C!CNNGG	26	360; 649; 656; 702; 765; 844; 854; 1001; 1053; 1355; 1431; 1490; 2447; 2551; 3559; 3631; 3754; 3789; 3798; 3847; 4188; 4457; 4862; 4990; 5093; 5783
BsaMI	GAATGCN!	1	2776
BsaMI	G!CATTC	1	2869
BsaWI	W!CCGGW	8	600; 666; 1393; 1408; 4056; 4900; 5590; 5737
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	3105
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNACNNNNNCTCC	1	3075
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	3026; 4933
Bsc4I	CCNNNNN!NNGG	24	49; 720; 771; 845; 1002; 1080; 1243; 1446; 2072; 3037; 3363; 3755; 4006; 4550; 4831; 4863; 4995; 5030; 5080; 5112; 5465; 5744; 5910; 5928
BscAI	GCATCNNNN!	8	769; 1720; 2840; 3603; 3675; 4323; 4387; 4662
BscAI	!NNNNNNGATGC	7	360; 777; 798; 3986; 4241; 4457; 5849
Bse1I	ACTGNN!	4	2642; 3969; 4170; 5416
Bse1I	C!CAGT	8	295; 810; 882; 2505; 3054; 3732; 5528; 5541
Bse8I	GATNN!NNATC	2	2687; 3884
Bse21I	CC!TNAGG	2	3505; 5137
Bse118I	R!CCGGY	9	666; 826; 1186; 1387; 1443; 3242; 4344; 4525; 4808
BseAI	T!CCGGA	1	1393
BseBI	CC!WGG	17	90; 283; 846; 856; 1054; 1492; 2448; 2553; 3561; 3616; 3633; 4412; 4991; 5094; 5784; 5797; 5918
BseCI	AT!CGAT	1	3865
BseDI	C!CNNGG	26	360; 649; 656; 702; 765; 844; 854; 1001; 1053; 1355; 1431; 1490; 2447; 2551; 3559; 3631; 3754; 3789; 3798; 3847; 4188; 4457; 4862; 4990; 5093; 5783
Bse3DI	GCAATGNN!	2	744; 4258
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	10	750; 810; 1074; 1311; 1467; 1508; 3885; 4342; 4367; 4821
BseGI	!CATCC	2	761; 3711
BseJI	GATNN!NNATC	2	2687; 3884
BseLI	CCNNNNN!NNGG	24	49; 720; 771; 845; 1002; 1080; 1243; 1446; 2072; 3037; 3363; 3755; 4006; 4550; 4831; 4863; 4995; 5030; 5080; 5112; 5465; 5744; 5910; 5928
BseMI	GCAATGNN!	2	744; 4258
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	4	620; 1428; 1742; 5151
BseMII	!NNNNNNNNCTGAG	9	1288; 1572; 1864; 2376; 3496; 3798; 4679; 5251; 5660
BseNI	ACTGNN!	4	2642; 3969; 4170; 5416
BseNI	C!CAGT	8	295; 810; 882; 2505; 3054; 3732; 5528; 5541
BsePI	G!CGCGC	1	1350
BseRI	GAGGAGNNNNNNNNNN!	1	3843
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCN!C	9	657; 839; 845; 1259; 1265; 1491; 3971; 4064; 5633
BseXI	GCAGCNNNNNNNN!	11	695; 1034; 1202; 1531; 2336; 2813; 4098; 4140; 4661; 5114; 5614
BseXI	!NNNNNNNNNNNGCTGC	10	916; 1460; 1554; 2501; 3307; 3972; 4156; 4249; 5315; 5521
BseX3I	C!GGCCG	2	1553; 3931
BseYI	C!CCAGC	3	3568; 3640; 5639
BseYI	G!CTGGG	2	1080; 4529
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	2	970; 2529
BsgI	!NNNNNNNNNNNNNNCTGCAC	2	804; 1553
Bsh1236I	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1558; 2949; 3325; 3345; 3369; 3400; 4091; 4392; 4830; 4914; 4977; 5046; 5319; 5900
Bsh1285I	CGRY!CG	4	671; 1556; 3934; 5609

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BshFI	GG!CC	33	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1555; 2400; 2475; 2556; 2657; 2991; 3133; 3788; 3794; 3803; 3846; 3933; 4107; 4498; 4525; 5034; 5091; 5124; 5469; 5903; 5921; 5932
BshNI	G!GYRCC	7	465; 645; 688; 877; 3178; 4024; 4059
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	3865
BsiEI	CGRY!CG	4	671; 1556; 3934; 5609
BsiHKAI	GWGCW!C	6	620; 853; 1259; 4138; 4328; 5633
BsiHKCI	C!YCGRG	4	613; 656; 904; 1264
BsiSI	C!CGG	25	601; 657; 667; 827; 1187; 1388; 1394; 1409; 1444; 3243; 3930; 4007; 4029; 4057; 4188; 4278; 4345; 4526; 4801; 4809; 4901; 5375; 5565; 5591; 5738
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	24	49; 720; 771; 845; 1002; 1080; 1243; 1446; 2072; 3037; 3363; 3755; 4006; 4550; 4831; 4863; 4995; 5030; 5080; 5112; 5465; 5744; 5910; 5928
BsIFI	GGGACNNNNNNNNN!	7	175; 326; 494; 1619; 4176; 4708; 4817
BsIFI	!NNNNNNNNNNNGTCCC	4	3541; 3613; 3677; 4972
BsmI	GAATGCN!	1	2776
BsmI	G!CATTC	1	2869
BsmAI	GTCTCN!	3	434; 1417; 1731
BsmAI	!NNNNNGAGAC	5	1336; 3449; 3867; 4886; 5014
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNN!	7	175; 326; 494; 1619; 4176; 4708; 4817
BsmFI	!NNNNNNNNNNNGTCCC	4	3541; 3613; 3677; 4972
BsnI	GG!CC	33	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1555; 2400; 2475; 2556; 2657; 2991; 3133; 3788; 3794; 3803; 3846; 3933; 4107; 4498; 4525; 5034; 5091; 5124; 5469; 5903; 5921; 5932
Bso31I	GGTCTCN!	1	1417
Bso31I	!NNNNNGAGACC	2	1336; 5014
BsoBI	C!YCGRG	4	613; 656; 904; 1264
Bsp13I	T!CCGGA	1	1393
Bsp19I	C!CATGG	4	360; 1431; 3754; 4457
Bsp24I	GACNNNNNTGGNNNNNNNNNNN!	2	289; 4828
Bsp24I	!NNNNNNCCANNNNNGTC	2	5249; 5427
Bsp24I	CCANNNNNGTCNNNNNNNNNNN!	2	5281; 5459
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4796
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 4707
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	29	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1417; 1538; 1576; 1732; 2682; 3862; 3866; 3885; 4196; 4274; 4355; 4364; 4442; 4818; 4834; 5193; 5205; 5283; 5291; 5302; 5377
Bsp1286I	GDGCH!C	16	620; 657; 839; 845; 853; 1259; 1265; 1491; 3216; 3971; 4064; 4138; 4328; 4390; 5100; 5633
Bsp1407I	T!GTACA	3	1028; 1121; 2052
Bsp1720I	GC!TNAGC	1	1297
BspACI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 649; 765; 996; 1320; 1365; 1441; 1556; 1813; 3340; 3343; 3357; 3447; 3695; 3707; 3716; 3728; 3738; 3749; 3795; 3934; 3997; 4499; 4544; 4610; 4636; 4761; 4764; 4912; 5044; 5351; 5495; 5991
BspACI	G!CGG	32	370; 403; 528; 651; 686; 767; 1244; 1247; 1447; 1453; 1499; 1552; 3285; 3312; 3400; 3510; 4091; 4155; 4256; 4259; 4539; 4594; 4692; 4830; 4977; 5117; 5360; 5605; 5726; 5745; 5872; 5900
BspCNI	CTCAGNNNNNNNNN!	4	619; 1427; 1741; 5150
BspCNI	!NNNNNNCTGAG	9	1289; 1573; 1865; 2377; 3497; 3799; 4680; 5252; 5661
BspDI	AT!CGAT	1	3865
BspD6I	GACTCNNNN!	5	418; 612; 3098; 4704; 5581
BspD6I	!NNNNNGAGTC	4	1590; 2380; 3061; 3493
BspEI	T!CCGGA	1	1393

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspFNI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1558; 2949; 3325; 3345; 3369; 3400; 4091; 4392; 4830; 4914; 4977; 5046; 5319; 5900
BspHI	T!CATGA	2	3451; 5223
BspLI	GGN!NCC	25	467; 647; 655; 662; 690; 879; 903; 1251; 1392; 1578; 1607; 2608; 3180; 3201; 3213; 3404; 3565; 3637; 4026; 4061; 4909; 4988; 5033; 5876; 5915
BspMI	ACCTGCNNNN!	2	4293; 4743
BspMI	!NNNNNNNNNGCAGGT	1	3912
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	11	668; 1546; 1584; 1740; 3893; 4204; 4450; 4842; 5201; 5299; 5385
BspPI	!NNNNNGATCC	8	580; 655; 705; 1571; 4269; 4813; 5200; 5297
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	3	1150; 4369; 4579
BspTI	C!TTAAG	1	2907
BspT104I	TT!CGAA	2	627; 4707
BspT107I	G!GYRCC	7	465; 645; 688; 877; 3178; 4024; 4059
BspTNI	GGTCTCN!	1	1417
BspTNI	!NNNNNGAGACC	2	1336; 5014
BsrI	ACTGGN!	4	2642; 3969; 4170; 5416
BsrI	C!CAGT	8	295; 810; 882; 2505; 3054; 3732; 5528; 5541
BsrBI	CCG!CTC	2	3449; 4638
BsrBI	GAG!CGG	3	1499; 3285; 4692
BsrDI	GCAATGNN!	2	744; 4258
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	9	666; 826; 1186; 1387; 1443; 3242; 4344; 4525; 4808
BsrGI	T!GTACA	3	1028; 1121; 2052
BsrSI	ACTGGN!	4	2642; 3969; 4170; 5416
BsrSI	C!CAGT	8	295; 810; 882; 2505; 3054; 3732; 5528; 5541
BssAI	R!CCGGY	9	666; 826; 1186; 1387; 1443; 3242; 4344; 4525; 4808
BssECI	C!CNNGG	26	360; 649; 656; 702; 765; 844; 854; 1001; 1053; 1355; 1431; 1490; 2447; 2551; 3559; 3631; 3754; 3789; 3798; 3847; 4188; 4457; 4862; 4990; 5093; 5783
BssHII	G!CGCGC	1	1350
BssKI	!CCNGG	23	88; 281; 655; 656; 844; 854; 1052; 1490; 2446; 2551; 3559; 3614; 3631; 4027; 4187; 4410; 4800; 4989; 5092; 5564; 5782; 5795; 5916
BssMI	!GATC	29	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1417; 1538; 1576; 1732; 2682; 3862; 3866; 3885; 4196; 4274; 4355; 4364; 4442; 4818; 4834; 5193; 5205; 5283; 5291; 5302; 5377
BssNI	GR!CGYC	10	122; 175; 258; 444; 689; 878; 1385; 4025; 4727; 4806
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1177; 4743; 5770
BssSI	C!TCGTG	1	4617
BssT1I	C!CWWGG	6	360; 1431; 3754; 3847; 4457; 4862
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	1150; 3492; 4369; 4579
Bst98I	C!TTAAG	1	2907
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	10	122; 175; 258; 444; 689; 878; 1385; 4025; 4727; 4806
BstAFI	C!TTAAG	1	2907
BstAPI	GCANNNN!NTGC	4	1525; 3592; 3664; 5126
BstAUI	T!GTACA	3	1028; 1121; 2052
BstBI	TT!CGAA	2	627; 4707
Bst2BI	C!ACGAG	3	1177; 4743; 5770
Bst2BI	C!TCGTG	1	4617
BstBAI	YAC!GTR	9	340; 720; 948; 1077; 1260; 1290; 1573; 3141; 4329
Bst4CI	ACN!GT	19	76; 198; 269; 543; 581; 645; 1347; 1510; 1683; 1911; 2226; 3116; 4405; 4521; 4629; 4952; 5443; 5913; 5984
BstC8I	GCN!NGC	36	86; 279; 593; 653; 789; 934; 1352; 1445; 1471; 2473; 2512; 2576; 3244; 3287; 3301; 3574; 3593; 3646; 3665; 3919; 4105; 4324; 4390; 4396; 4428; 4469; 4473; 4527; 4810; 4997; 5044; 5100; 5122; 5333; 5893; 5930

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstDEI	C!TNAG	15	606; 1297; 1414; 1581; 1728; 1873; 2385; 2570; 2620; 3505; 3807; 4688; 5137; 5260; 5669
BstDSI	C!CRYGG	8	360; 649; 702; 765; 1355; 1431; 3754; 4457
BstEII	G!GTNACC	2	858; 1005
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	10	750; 810; 1074; 1311; 1467; 1508; 3885; 4342; 4367; 4821
BstF5I	!CATCC	2	761; 3711
BstFNI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1558; 2949; 3325; 3345; 3369; 3400; 4091; 4392; 4830; 4914; 4977; 5046; 5319; 5900
BstH2I	RGCCG!Y	8	598; 692; 881; 1163; 3292; 3300; 4028; 5703
BstHHI	GCG!C	29	597; 691; 880; 959; 1000; 1162; 1352; 1354; 1458; 3291; 3299; 3325; 3347; 3356; 3369; 3400; 4019; 4027; 4091; 4128; 4394; 4654; 4830; 4916; 5319; 5428; 5602; 5702; 5769
BstKTI	GAT!C	29	588; 612; 663; 713; 1137; 1184; 1218; 1317; 1420; 1541; 1579; 1735; 2685; 3865; 3869; 3888; 4199; 4277; 4358; 4367; 4445; 4821; 4837; 5196; 5208; 5286; 5294; 5305; 5380
BstMAI	GTCTCN!	3	434; 1417; 1731
BstMAI	!NNNNNGAGAC	5	1336; 3449; 3867; 4886; 5014
BstMBI	!GATC	29	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1417; 1538; 1576; 1732; 2682; 3862; 3866; 3885; 4196; 4274; 4355; 4364; 4442; 4818; 4834; 5193; 5205; 5283; 5291; 5302; 5377
BstMCI	CGRY!CG	4	671; 1556; 3934; 5609
BstMWI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 767; 788; 827; 884; 1157; 1196; 1453; 1525; 1564; 2541; 3252; 3282; 3309; 3351; 3592; 3664; 3715; 3794; 4016; 4100; 4123; 4262; 4385; 4468; 4735; 4922; 5126; 5325; 5897
BstNI	CC!WGG	17	90; 283; 846; 856; 1054; 1492; 2448; 2553; 3561; 3616; 3633; 4412; 4991; 5094; 5784; 5797; 5918
BstNSI	RCATG!Y	5	936; 3595; 3667; 4430; 5947
BstOI	CC!WGG	17	90; 283; 846; 856; 1054; 1492; 2448; 2553; 3561; 3616; 3633; 4412; 4991; 5094; 5784; 5797; 5918
BstPI	G!GTNACC	2	858; 1005
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	23	88; 281; 655; 656; 844; 854; 1052; 1490; 2446; 2551; 3559; 3614; 3631; 4027; 4187; 4410; 4800; 4989; 5092; 5564; 5782; 5795; 5916
BstSFI	C!TRYAG	5	634; 1517; 3360; 5487; 5678
BstSLI	GKGCM!C	9	657; 839; 845; 1259; 1265; 1491; 3971; 4064; 5633
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1558; 2949; 3325; 3345; 3369; 3400; 4091; 4392; 4830; 4914; 4977; 5046; 5319; 5900
Bst2UI	CC!WGG	17	90; 283; 846; 856; 1054; 1492; 2448; 2553; 3561; 3616; 3633; 4412; 4991; 5094; 5784; 5797; 5918
BstV1I	GCAGCNNNNNNN!	11	695; 1034; 1202; 1531; 2336; 2813; 4098; 4140; 4661; 5114; 5614
BstV1I	!NNNNNNNNNNNGCTGC	10	916; 1460; 1554; 2501; 3307; 3972; 4156; 4249; 5315; 5521
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNN!NTGG	1	2484
BstX2I	R!GATCY	13	585; 609; 660; 710; 1417; 1576; 4196; 4442; 4834; 5193; 5205; 5291; 5302
BstYI	R!GATCY	13	585; 609; 660; 710; 1417; 1576; 4196; 4442; 4834; 5193; 5205; 5291; 5302
BstZI	C!GGCCG	2	1553; 3931
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3454; 4244; 5745
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3865
Bsu36I	CC!TNAGG	2	3505; 5137

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsuRI	GG!CC	33	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1555; 2400; 2475; 2556; 2657; 2991; 3133; 3788; 3794; 3803; 3846; 3933; 4107; 4498; 4525; 5034; 5091; 5124; 5469; 5903; 5921; 5932
BsuTUI	AT!CGAT	1	3865
BtgI	C!CRYGG	8	360; 649; 702; 765; 1355; 1431; 3754; 4457
BtgZI	GCGATGNNNNNNNNNN!	5	797; 845; 992; 3142; 4477
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 4296; 4640
BthCI	GCNG!C	45	686; 689; 770; 932; 1025; 1193; 1247; 1250; 1367; 1456; 1476; 1522; 1555; 1558; 1570; 2327; 2517; 2804; 3323; 3345; 3359; 3797; 3936; 3988; 3999; 4089; 4094; 4131; 4172; 4259; 4262; 4265; 4501; 4597; 4638; 4652; 4766; 5105; 5120; 5331; 5537; 5540; 5605; 5748; 5903
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	1113; 2864
BtsCI	GGATGNN!	10	750; 810; 1074; 1311; 1467; 1508; 3885; 4342; 4367; 4821
BtsCI	!CATCC	2	761; 3711
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4293; 4743
BveI	!NNNNNNNNNGCAGGT	1	3912
Cac8I	GCN!NGC	36	86; 279; 593; 653; 789; 934; 1352; 1445; 1471; 2473; 2512; 2576; 3244; 3287; 3301; 3574; 3593; 3646; 3665; 3919; 4105; 4324; 4390; 4396; 4428; 4469; 4473; 4527; 4810; 4997; 5044; 5100; 5122; 5333; 5893; 5930
CaiI	CAGNNN!CTG	3	2447; 5126; 5534
CciI	T!CATGA	2	3451; 5223
CciNI	GC!GGCCGC	1	1553
CdiI	CATC!G	7	352; 1209; 1242; 4314; 4319; 4517; 4658
CdiI	C!GATG	6	783; 831; 939; 978; 3128; 4463
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	5897
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	4	486; 1792; 3686; 3728
CelII	GC!TNAGC	1	1297
CfoI	GCG!C	29	597; 691; 880; 959; 1000; 1162; 1352; 1354; 1458; 3291; 3299; 3325; 3347; 3356; 3369; 3400; 4019; 4027; 4091; 4128; 4394; 4654; 4830; 4916; 5319; 5428; 5602; 5702; 5769
CfrI	Y!GGCCR	9	747; 1050; 1071; 1211; 1553; 3931; 4105; 4496; 4523
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	9	666; 826; 1186; 1387; 1443; 3242; 4344; 4525; 4808
Cfr13I	G!GNCC	17	83; 276; 654; 901; 1249; 1506; 1606; 2399; 2474; 2555; 2655; 3132; 4541; 4986; 5032; 5090; 5123
Cfr42I	CCGC!GG	2	652; 768
ChaI	GATC!	29	589; 613; 664; 714; 1138; 1185; 1219; 1318; 1421; 1542; 1580; 1736; 2686; 3866; 3870; 3889; 4200; 4278; 4359; 4368; 4446; 4822; 4838; 5197; 5209; 5287; 5295; 5306; 5381
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	6	1138; 1503; 3842; 5282; 5382; 5460
CjeI	!NNNNNNNNNACNNNNNNNTGG	8	64; 257; 2431; 3509; 3604; 4796; 5346; 5901
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	8	98; 291; 2465; 3543; 3638; 4830; 5380; 5935
CjeI	!NNNNNNNNCCANNNNNNGT	6	1104; 1469; 3808; 5248; 5348; 5426
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	5282; 5460
CjePI	!NNNNNNNNGANNNNNNTGG	5	257; 1032; 2220; 4796; 5395
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	5	290; 1065; 2253; 4829; 5428
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	5249; 5427
Clal	AT!CGAT	1	3865
CpoI	CG!GWCCG	1	4541
CseI	GACGCNNNNN!	4	526; 1393; 4735; 4814
CseI	!NNNNNNNNNNGCGTC	3	3358; 5253; 5831
CsiI	A!CCWGGT	1	3614
CspI	CG!GWCCG	1	4541
Csp6I	G!TAC	15	218; 243; 298; 331; 382; 539; 646; 897; 1029; 1122; 1269; 1679; 1921; 2053; 4330
Csp45I	TT!CGAA	2	627; 4707
CspAI	A!CCGGT	1	666

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspCI	CAANNNGGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNGGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1364; 3305; 4914
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	23	301; 361; 678; 933; 1278; 1432; 1479; 1650; 2195; 2414; 3452; 3592; 3664; 3755; 3896; 4241; 4427; 4458; 4484; 4840; 5224; 5944; 5995
CviJI	RG!CY	110	42; 84; 93; 277; 566; 618; 624; 655; 749; 776; 902; 909; 929; 944; 1044; 1052; 1058; 1073; 1141; 1151; 1213; 1250; 1283; 1296; 1334; 1406; 1430; 1436; 1522; 1555; 1567; 2327; 2338; 2374; 2395; 2400; 2444; 2475; 2514; 2535; 2544; 2556; 2574; 2657; 2694; 2804; 2971; 2991; 3133; 3214; 3228; 3242; 3523; 3564; 3636; 3759; 3788; 3794; 3803; 3811; 3834; 3846; 3852; 3933; 3950; 3958; 3985; 4010; 4094; 4103; 4107; 4131; 4169; 4245; 4262; 4281; 4344; 4388; 4398; 4415; 4498; 4525; 4529; 4566; 4589; 4605; 4785; 4812; 4873; 4995; 5034; 5091; 5098; 5105; 5124; 5135; 5386; 5415; 5458; 5469; 5534; 5613; 5638; 5643; 5689; 5779; 5877; 5903; 5921; 5932
CviKI-1	RG!CY	110	42; 84; 93; 277; 566; 618; 624; 655; 749; 776; 902; 909; 929; 944; 1044; 1052; 1058; 1073; 1141; 1151; 1213; 1250; 1283; 1296; 1334; 1406; 1430; 1436; 1522; 1555; 1567; 2327; 2338; 2374; 2395; 2400; 2444; 2475; 2514; 2535; 2544; 2556; 2574; 2657; 2694; 2804; 2971; 2991; 3133; 3214; 3228; 3242; 3523; 3564; 3636; 3759; 3788; 3794; 3803; 3811; 3834; 3846; 3852; 3933; 3950; 3958; 3985; 4010; 4094; 4103; 4107; 4131; 4169; 4245; 4262; 4281; 4344; 4388; 4398; 4415; 4498; 4525; 4529; 4566; 4589; 4605; 4785; 4812; 4873; 4995; 5034; 5091; 5098; 5105; 5124; 5135; 5386; 5415; 5458; 5469; 5534; 5613; 5638; 5643; 5689; 5779; 5877; 5903; 5921; 5932
CviQI	G!TAC	15	218; 243; 298; 331; 382; 539; 646; 897; 1029; 1122; 1269; 1679; 1921; 2053; 4330
DdeI	C!TNAG	15	606; 1297; 1414; 1581; 1728; 1873; 2385; 2570; 2620; 3505; 3807; 4688; 5137; 5260; 5669
DinI	GGC!GCC	3	690; 879; 4026
DpnI	GA!TC	29	587; 611; 662; 712; 1136; 1183; 1217; 1316; 1419; 1540; 1578; 1734; 2684; 3864; 3868; 3887; 4198; 4276; 4357; 4366; 4444; 4820; 4836; 5195; 5207; 5285; 5293; 5304; 5379
DpnII	!GATC	29	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1417; 1538; 1576; 1732; 2682; 3862; 3866; 3885; 4196; 4274; 4355; 4364; 4442; 4818; 4834; 5193; 5205; 5283; 5291; 5302; 5377
DraI	TTT!AAA	4	2097; 2727; 5169; 5188
DraII	RG!GNCCY	4	1606; 2399; 2655; 5123
DraIII	CACNNN!GTG	1	3141
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 920; 5505
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNNN!NNGTC	3	3096; 4052; 5841
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	1	1400
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNNN!NNGTC	3	3096; 4052; 5841
EaeI	Y!GGCCR	9	747; 1050; 1071; 1211; 1553; 3931; 4105; 4496; 4523
EagI	C!GGCCG	2	1553; 3931
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	4	1150; 3492; 4369; 4579
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	4	1150; 3492; 4369; 4579
EciI	GGCGGANNNNNNNNNNNN!	4	3525; 4554; 5741; 5887
EciI	!NNNNNNNNNTCCGCC	4	496; 3696; 3717; 3738
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	2	1553; 3931
Eco24I	GRGCI	5	620; 657; 3216; 4390; 5100

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco31I	GGTCTCN!	1	1417
Eco31I	!NNNNNGAGACC	2	1336; 5014
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	1506; 1606; 4541; 4986
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1553; 3931
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	5	931; 1174; 1357; 4171; 4603
Eco57I	!NNNNNNNNNNNNNNCTTCAG	3	741; 1573; 5401
Eco72I	CAC!GTG	4	1077; 1260; 1290; 1573
Eco81I	CC!TNAGG	2	3505; 5137
Eco88I	C!YCGRG	4	613; 656; 904; 1264
Eco91I	G!GTNACC	2	858; 1005
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 1431; 3754; 3847; 4457; 4862
Eco147I	AGG!CCT	1	3846
EcoHI	!CCSGG	6	655; 656; 4027; 4187; 4800; 5564
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	8	867; 931; 1114; 1174; 1357; 4171; 4603; 4865
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	4	741; 1573; 4808; 5401
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	2	858; 1005
Eco0109I	RG!GNCCY	4	1606; 2399; 2655; 5123
EcoRI	G!AATTC	2	629; 2493
EcoRII	!CCWGG	17	88; 281; 844; 854; 1052; 1490; 2446; 2551; 3559; 3614; 3631; 4410; 4989; 5092; 5782; 5795; 5916
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 1431; 3754; 3847; 4457; 4862
EcoT22I	ATGCA!T	3	3597; 3669; 6000
EcoT38I	GRGCY!C	5	620; 657; 3216; 4390; 5100
Eco53kI	GAG!CTC	1	618
EgeI	GGC!GCC	3	690; 879; 4026
EheI	GGC!GCC	3	690; 879; 4026
ErhI	C!CWWGG	6	360; 1431; 3754; 3847; 4457; 4862
EsaBC3I	TC!GA	18	615; 628; 641; 972; 1014; 1383; 1423; 3175; 3866; 4139; 4295; 4319; 4355; 4517; 4708; 4753; 5008; 5846
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	23	304; 364; 681; 936; 1281; 1435; 1482; 1653; 2198; 2417; 3455; 3595; 3667; 3758; 3899; 4244; 4430; 4461; 4487; 4843; 5227; 5947; 5998
Fail	YA!TR	84	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 934; 1279; 1330; 1433; 1480; 1603; 1639; 1651; 1656; 1763; 1830; 1854; 1942; 1958; 1964; 2005; 2014; 2018; 2024; 2049; 2059; 2121; 2196; 2266; 2268; 2282; 2284; 2312; 2360; 2415; 2421; 2650; 2687; 2697; 2763; 2808; 3013; 3441; 3453; 3584; 3593; 3656; 3665; 3689; 3756; 3780; 3897; 3961; 4242; 4267; 4428; 4459; 4485; 4557; 4773; 4841; 4919; 4971; 5132; 5149; 5151; 5153; 5225; 5503; 5692; 5808; 5881; 5945; 5996
FalI	AAGNNNNNCTNNNNNNNNNNNNNN!	2	1179; 4365
FalI	!NNNNNNNNAAGNNNNNNCTT	2	1147; 4333
FaqI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1619; 4176; 4708; 4817
FaqI	!NNNNNNNNNNNNNGTCCC	4	3541; 3613; 3677; 4972
FatI	!CATG	23	300; 360; 677; 932; 1277; 1431; 1478; 1649; 2194; 2413; 3451; 3591; 3663; 3754; 3895; 4240; 4426; 4457; 4483; 4839; 5223; 5943; 5994
FauI	CCCGCNNNN!	10	93; 119; 286; 1003; 1448; 3347; 3702; 3723; 4919; 5051
FauI	!NNNNNNGCGGG	7	644; 1492; 3278; 4148; 4685; 4823; 4970
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FbII	GT!MKAC	1	640
FmuI	GGNC!C	17	86; 279; 657; 904; 1252; 1509; 1609; 2402; 2477; 2558; 2658; 3135; 4544; 4989; 5035; 5093; 5126

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	45	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1454; 1474; 1520; 1553; 1556; 1568; 2325; 2515; 2802; 3321; 3343; 3357; 3795; 3934; 3986; 3997; 4087; 4092; 4129; 4170; 4257; 4260; 4263; 4499; 4595; 4636; 4650; 4764; 5103; 5118; 5329; 5535; 5538; 5603; 5746; 5901
FokI	GGATGNNNNNNNNNN!	10	757; 817; 1081; 1318; 1474; 1515; 3892; 4349; 4374; 4828
FokI	!NNNNNNNNNNNNNNCATCC	2	748; 3698
FriOI	GRGCY!C	5	620; 657; 3216; 4390; 5100
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	4127
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	11	592; 1535; 1918; 2396; 2680; 2874; 3292; 3848; 4863; 5197; 5450
FspEI	CCNNNNNNNNNNNN!	189	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 705; 727; 763; 778; 801; 822; 837; 851; 867; 885; 906; 950; 975; 1008; 1023; 1066; 1087; 1122; 1155; 1176; 1200; 1227; 1248; 1264; 1278; 1300; 1326; 1348; 1368; 1386; 1401; 1422; 1444; 1490; 1504; 1522; 1536; 1569; 1593; 1622; 1639; 1826; 1853; 1930; 1984; 2079; 2167; 2212; 2348; 2404; 2448; 2489; 2513; 2531; 2564; 2604; 2623; 2639; 2671; 2690; 2708; 2747; 2761; 2902; 2997; 3021; 3044; 3067; 3085; 3107; 3128; 3147; 3166; 3195; 3216; 3230; 3256; 3344; 3370; 3419; 3460; 3478; 3517; 3533; 3571; 3628; 3643; 3700; 3720; 3734; 3751; 3765; 3802; 3817; 3860; 3943; 4010; 4041; 4061; 4076; 4121; 4135; 4201; 4215; 4234; 4250; 4291; 4311; 4358; 4408; 4424; 4444; 4469; 4489; 4512; 4539; 4557; 4583; 4623; 4649; 4673; 4729; 4743; 4771; 4814; 4835; 4870; 4914; 5002; 5026; 5048; 5068; 5084; 5105; 5119; 5138; 5222; 5242; 5270; 5285; 5319; 5361; 5388; 5403; 5448; 5472; 5486; 5508; 5534; 5554; 5578; 5604; 5652; 5671; 5690; 5716; 5751; 5796; 5826; 5840; 5891; 5905; 5930; 5946; 5967; 5996
FspEI	!NNNNNNNNNNNNNNNGG	159	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 671; 689; 709; 727; 752; 778; 812; 831; 860; 884; 926; 958; 988; 1034; 1055; 1078; 1113; 1133; 1172; 1195; 1226; 1288; 1324; 1342; 1373; 1394; 1418; 1438; 1477; 1521; 1559; 1577; 1624; 1642; 1660; 1705; 1846; 1918; 2009; 2057; 2156; 2222; 2289; 2345; 2382; 2433; 2457; 2496; 2514; 2538; 2589; 2623; 2652; 2696; 2796; 2865; 2895; 2973; 3022; 3044; 3072; 3108; 3153; 3182; 3218; 3237; 3265; 3285; 3348; 3371; 3479; 3511; 3529; 3558; 3601; 3630; 3741; 3770; 3813; 3834; 3862; 3895; 3915; 3940; 3967; 3992; 4014; 4042; 4068; 4089; 4140; 4161; 4179; 4227; 4263; 4319; 4344; 4368; 4397; 4420; 4444; 4470; 4492; 4511; 4536; 4576; 4612; 4677; 4762; 4786; 4815; 4849; 4870; 4890; 4935; 4962; 4981; 5014; 5066; 5097; 5124; 5176; 5274; 5345; 5390; 5451; 5516; 5550; 5576; 5594; 5630; 5700; 5723; 5745; 5769; 5802; 5850; 5885; 5903; 5960
Fsp4HI	GC!NGC	45	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1454; 1474; 1520; 1553; 1556; 1568; 2325; 2515; 2802; 3321; 3343; 3357; 3795; 3934; 3986; 3997; 4087; 4092; 4129; 4170; 4257; 4260; 4263; 4499; 4595; 4636; 4650; 4764; 5103; 5118; 5329; 5535; 5538; 5603; 5746; 5901
GdiII	C!GGCCR	2	1553; 3931
GdiII	Y!GGCCG	5	1211; 1553; 3931; 4496; 4523
GlaI	GC!GC	29	596; 690; 879; 958; 999; 1161; 1351; 1353; 1457; 3290; 3298; 3324; 3346; 3355; 3368; 3399; 4018; 4026; 4090; 4127; 4393; 4653; 4829; 4915; 5318; 5427; 5601; 5701; 5768
GluI	GC!NGC	45	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1454; 1474; 1520; 1553; 1556; 1568; 2325; 2515; 2802; 3321; 3343; 3357; 3795; 3934; 3986; 3997; 4087; 4092; 4129; 4170; 4257; 4260; 4263; 4499; 4595; 4636; 4650; 4764; 5103; 5118; 5329; 5535; 5538; 5603; 5746; 5901
GsaI	CCCAG!C	3	3572; 3644; 5643
GsaI	GCTGG!G	2	1084; 4533
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	867; 1114; 4865

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	4808
HaeI	WGG!CCW	9	749; 1052; 1073; 1141; 3846; 4107; 5469; 5921; 5932
HaeII	RGCGC!Y	8	598; 692; 881; 1163; 3292; 3300; 4028; 5703
HaeIII	GG!CC	33	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1555; 2400; 2475; 2556; 2657; 2991; 3133; 3788; 3794; 3803; 3846; 3933; 4107; 4498; 4525; 5034; 5091; 5124; 5469; 5903; 5921; 5932
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	4	1442; 1527; 2024; 4221
HaeIV	!NNNNNNNNNGAYNNNNNRTC	4	1408; 1493; 1990; 4187
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	4	1441; 1526; 2023; 4220
HaeIV	!NNNNNNNGAYNNNNNRTC	4	1410; 1495; 1992; 4189
HapII	C!CGG	25	601; 657; 667; 827; 1187; 1388; 1394; 1409; 1444; 3243; 3930; 4007; 4029; 4057; 4188; 4278; 4345; 4526; 4801; 4809; 4901; 5375; 5565; 5591; 5738
HgaI	GACGCNNNNN!	4	526; 1393; 4735; 4814
HgaI	!NNNNNNNNNGCGTC	3	3358; 5253; 5831
HhaI	GCG!C	29	597; 691; 880; 959; 1000; 1162; 1352; 1354; 1458; 3291; 3299; 3325; 3347; 3356; 3369; 3400; 4019; 4027; 4091; 4128; 4394; 4654; 4830; 4916; 5319; 5428; 5602; 5702; 5769
HinI	GR!CGYC	10	122; 175; 258; 444; 689; 878; 1385; 4025; 4727; 4806
Hin1II	CATG!	23	304; 364; 681; 936; 1281; 1435; 1482; 1653; 2198; 2417; 3455; 3595; 3667; 3758; 3899; 4244; 4430; 4461; 4487; 4843; 5227; 5947; 5998
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	5	1422; 1526; 2023; 2693; 4220
Hin4I	!NNNNNNNNGABNNNNNRTC	5	1409; 1494; 1991; 4188; 4218
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	5	1441; 1526; 2023; 4220; 4250
Hin4I	!NNNNNNNNGAYNNNNNVTC	6	1390; 1409; 1494; 1991; 2661; 4188
Hin6I	G!CGC	29	595; 689; 878; 957; 998; 1160; 1350; 1352; 1456; 3289; 3297; 3323; 3345; 3354; 3367; 3398; 4017; 4025; 4089; 4126; 4392; 4652; 4828; 4914; 5317; 5426; 5600; 5700; 5767
HinP1I	G!CGC	29	595; 689; 878; 957; 998; 1160; 1350; 1352; 1456; 3289; 3297; 3323; 3345; 3354; 3367; 3398; 4017; 4025; 4089; 4126; 4392; 4652; 4828; 4914; 5317; 5426; 5600; 5700; 5767
HincII	GTY!RAC	2	641; 2788
HindII	GTY!RAC	2	641; 2788
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	17	410; 604; 1089; 1424; 1597; 2387; 2670; 3068; 3090; 3500; 4510; 4644; 4696; 4754; 4791; 5573; 5969
HpaI	GTT!AAC	1	2788
HpaII	C!CGG	25	601; 657; 667; 827; 1187; 1388; 1394; 1409; 1444; 3243; 3930; 4007; 4029; 4057; 4188; 4278; 4345; 4526; 4801; 4809; 4901; 5375; 5565; 5591; 5738
HphI	GGTGANNNNNNNN!	6	376; 870; 1017; 1606; 5096; 5212
HphI	!NNNNNNNTCACC	8	957; 1098; 1176; 1309; 1504; 2489; 3142; 4203
Hpy8I	GTN!NAC	12	201; 539; 577; 641; 1029; 1257; 2053; 2788; 3072; 3089; 3144; 5631
Hpy99I	CGWCG!	9	645; 1387; 4115; 4143; 4437; 4452; 4729; 5114; 5847
Hpy166II	GTN!NAC	12	201; 539; 577; 641; 1029; 1257; 2053; 2788; 3072; 3089; 3144; 5631
Hpy188I	TCN!GA	16	585; 609; 1417; 1874; 2386; 2524; 3199; 3808; 3992; 4336; 4689; 4790; 5269; 5403; 5756; 5834
Hpy188III	TC!NNGA	29	613; 990; 1014; 1062; 1093; 1394; 1421; 1580; 1730; 2680; 3452; 3504; 3817; 3870; 4043; 4359; 4368; 4451; 4507; 4551; 4641; 4674; 4743; 5224; 5298; 5381; 5479; 5577; 5711
HpyAV	CCTTCNNNNNN!	8	765; 978; 1020; 1173; 1638; 4670; 4777; 5456
HpyAV	!NNNNNGAAGG	12	906; 1059; 1332; 1654; 2646; 3258; 4153; 4882; 4898; 5081; 5398; 5708
HpyCH4III	ACN!GT	19	76; 198; 269; 543; 581; 645; 1347; 1510; 1683; 1911; 2226; 3116; 4405; 4521; 4629; 4952; 5443; 5913; 5984
HpyCH4IV	A!CGT	21	122; 134; 175; 258; 339; 444; 719; 947; 1076; 1259; 1289; 1572; 2455; 3085; 3097; 3140; 3250; 4141; 4328; 5109; 5242

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HpyCH4V	TG!CA	30	636; 821; 932; 951; 1257; 1519; 1570; 1712; 1956; 2084; 2206; 2264; 2280; 2510; 2774; 2801; 2869; 3586; 3595; 3658; 3667; 3782; 3858; 3917; 4076; 4251; 4265; 5335; 5631; 5998
HpyF3I	C!TNAG	15	606; 1297; 1414; 1581; 1728; 1873; 2385; 2570; 2620; 3505; 3807; 4688; 5137; 5260; 5669
HpyF10VI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 767; 788; 827; 884; 1157; 1196; 1453; 1525; 1564; 2541; 3252; 3282; 3309; 3351; 3592; 3664; 3715; 3794; 4016; 4100; 4123; 4262; 4385; 4468; 4735; 4922; 5126; 5325; 5897
Hsp92I	GR!CGYC	10	122; 175; 258; 444; 689; 878; 1385; 4025; 4727; 4806
Hsp92II	CATG!	23	304; 364; 681; 936; 1281; 1435; 1482; 1653; 2198; 2417; 3455; 3595; 3667; 3758; 3899; 4244; 4430; 4461; 4487; 4843; 5227; 5947; 5998
HspAI	G!CGC	29	595; 689; 878; 957; 998; 1160; 1350; 1352; 1456; 3289; 3297; 3323; 3345; 3354; 3367; 3398; 4017; 4025; 4089; 4126; 4392; 4652; 4828; 4914; 5317; 5426; 5600; 5700; 5767
KasI	G!GCGCC	3	688; 877; 4024
KfII	GG!GWCCC	1	1606
KpnI	GGTAC!C	1	649
Kpn2I	T!CCGGA	1	1393
KspI	CCGC!GG	2	652; 768
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	2788
Kzo9I	!GATC	29	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1417; 1538; 1576; 1732; 2682; 3862; 3866; 3885; 4196; 4274; 4355; 4364; 4442; 4818; 4834; 5193; 5205; 5283; 5291; 5302; 5377
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	1150; 4369; 4579
LpnI	RGC!GCGY	8	596; 690; 879; 1161; 3290; 3298; 4026; 5701
LpnPI	CCDGNNNNNNNNNN!	71	102; 295; 614; 670; 706; 801; 823; 840; 858; 880; 895; 1066; 1132; 1165; 1200; 1237; 1348; 1401; 1422; 1457; 1504; 1529; 1593; 2348; 2460; 2518; 2565; 2762; 3067; 3256; 3479; 3517; 3533; 3573; 3628; 3645; 3745; 3830; 3943; 4020; 4042; 4065; 4201; 4215; 4234; 4291; 4358; 4408; 4424; 4481; 4539; 4748; 4814; 4838; 4914; 5003; 5106; 5139; 5370; 5388; 5534; 5554; 5578; 5604; 5653; 5751; 5796; 5826; 5905; 5930; 5967
LpnPI	!NNNNNNNNNNNNNCHGG	69	75; 268; 552; 586; 642; 812; 831; 937; 1039; 1066; 1113; 1172; 1373; 1394; 1429; 1477; 1576; 1660; 1715; 2057; 2156; 2222; 2360; 2433; 2457; 2496; 2521; 2623; 3108; 3228; 3285; 3348; 3546; 3558; 3618; 3630; 3862; 3907; 3950; 3992; 4014; 4042; 4089; 4151; 4173; 4263; 4330; 4353; 4397; 4492; 4511; 4536; 4685; 4786; 4829; 4886; 4976; 5079; 5106; 5124; 5360; 5397; 5550; 5576; 5716; 5734; 5769; 5850; 5903
Lsp1109I	GCAGCNNNNNNNN!	11	695; 1034; 1202; 1531; 2336; 2813; 4098; 4140; 4661; 5114; 5614
Lsp1109I	!NNNNNNNNNNNGCTGC	10	916; 1460; 1554; 2501; 3307; 3972; 4156; 4249; 5315; 5521
LweI	GCATCNNNNNN!	8	770; 1721; 2841; 3604; 3676; 4324; 4388; 4663
LweI	!NNNNNNNNNGATGC	7	357; 774; 795; 3983; 4238; 4454; 5846
MabI	A!CCWGGT	1	3614
MaeI	C!TAG	11	592; 1535; 1918; 2396; 2680; 2874; 3292; 3848; 4863; 5197; 5450
MaeII	A!CGT	21	122; 134; 175; 258; 339; 444; 719; 947; 1076; 1259; 1289; 1572; 2455; 3085; 3097; 3140; 3250; 4141; 4328; 5109; 5242
MaeIII	!GTNAC	20	61; 148; 497; 858; 1005; 1308; 1510; 1559; 1670; 1886; 2290; 2813; 3314; 3326; 4145; 4451; 5141; 5407; 5523; 5586
MalI	GA!TC	29	587; 611; 662; 712; 1136; 1183; 1217; 1316; 1419; 1540; 1578; 1734; 2684; 3864; 3868; 3887; 4198; 4276; 4357; 4366; 4444; 4820; 4836; 5195; 5207; 5285; 5293; 5304; 5379
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	14	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MbiI	CCG!CTC	2	3449; 4638
MbiI	GAG!CGG	3	1499; 3285; 4692
MboI	!GATC	29	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1417; 1538; 1576; 1732; 2682; 3862; 3866; 3885; 4196; 4274; 4355; 4364; 4442; 4818; 4834; 5193; 5205; 5283; 5291; 5302; 5377
MboII	GAAGANNNNNNNN!	6	1167; 3281; 3509; 4386; 4596; 5215
MboII	!NNNNNNNTCTTC	7	1799; 2101; 2423; 4676; 4843; 5043; 5286
McaTI	GCGC!GC	1	1353
MfeI	C!AATTG	2	1767; 2775
MflI	R!GATCY	13	585; 609; 660; 710; 1417; 1576; 4196; 4442; 4834; 5193; 5205; 5291; 5302
MhII	GDGCH!C	16	620; 657; 839; 845; 853; 1259; 1265; 1491; 3216; 3971; 4064; 4138; 4328; 4390; 5100; 5633
MIsI	TGG!CCA	4	749; 1052; 1073; 4107
MluI	A!CGCGT	0	
MluNI	TGG!CCA	4	749; 1052; 1073; 4107
MlyI	GAGTCNNNN!	4	1606; 2396; 3077; 3509
MlyI	!NNNNNGACTC	5	404; 598; 3084; 4690; 5567
Mly113I	GG!CGCC	3	689; 878; 4025
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	2650; 3118
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	5550; 5734
MnII	CCTCNNNNNN!	10	2209; 2445; 2687; 2744; 3808; 4626; 4832; 5146; 5516; 5840
MnII	!NNNNNGAGG	17	541; 726; 966; 996; 2297; 2704; 3169; 3500; 3778; 3821; 3836; 3876; 3940; 4076; 4433; 4863; 5766
Mph1103I	ATGCA!T	3	3597; 3669; 6000
MreI	CG!CCGGCG	1	1443
MroI	T!CCGGA	1	1393
MroNI	G!CCGGC	4	1443; 3242; 4525; 4808
MroXI	GAANN!NNTTC	1	916
MscI	TGG!CCA	4	749; 1052; 1073; 4107
MseI	T!TAA	28	7; 1643; 1784; 1834; 1842; 1883; 1892; 1994; 2029; 2044; 2096; 2116; 2242; 2601; 2726; 2787; 2908; 2929; 2940; 2952; 2963; 2980; 3078; 3349; 5168; 5182; 5187; 5239
MslI	CAYNN!NNRTG	6	365; 856; 1225; 1717; 2021; 4462
MspI	C!CGG	25	601; 657; 667; 827; 1187; 1388; 1394; 1409; 1444; 3243; 3930; 4007; 4029; 4057; 4188; 4278; 4345; 4526; 4801; 4809; 4901; 5375; 5565; 5591; 5738
Msp20I	TGG!CCA	4	749; 1052; 1073; 4107
MspA1I	CMG!CKG	7	651; 686; 767; 3523; 4131; 5360; 5605
MspCI	C!TTAAG	1	2907

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	299	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; 627; 640; 662; 679; 705; 720; 763; 778; 800; 821; 839; 852; 867; 880; 893; 906; 922; 936; 949; 964; 984; 1002; 1026; 1048; 1065; 1087; 1105; 1124; 1140; 1154; 1179; 1199; 1221; 1235; 1249; 1264; 1277; 1290; 1309; 1325; 1347; 1363; 1378; 1400; 1415; 1428; 1444; 1469; 1482; 1496; 1512; 1528; 1547; 1569; 1583; 1603; 1623; 1662; 1687; 1711; 1740; 1774; 1802; 1826; 1845; 1870; 1885; 1903; 1920; 1961; 1975; 2016; 2029; 2068; 2084; 2149; 2167; 2183; 2207; 2226; 2249; 2277; 2293; 2307; 2323; 2347; 2387; 2403; 2421; 2439; 2452; 2468; 2484; 2501; 2517; 2530; 2548; 2564; 2582; 2595; 2631; 2645; 2671; 2692; 2708; 2732; 2749; 2762; 2803; 2817; 2830; 2848; 2886; 2901; 2919; 2960; 2984; 3004; 3022; 3043; 3066; 3098; 3113; 3135; 3153; 3166; 3187; 3204; 3217; 3230; 3246; 3259; 3289; 3304; 3329; 3347; 3360; 3375; 3399; 3413; 3437; 3462; 3478; 3516; 3532; 3571; 3585; 3599; 3627; 3643; 3657; 3671; 3700; 3713; 3734; 3743; 3765; 3795; 3811; 3829; 3859; 3882; 3906; 3930; 3949; 3977; 4003; 4019; 4032; 4055; 4069; 4089; 4102; 4116; 4135; 4149; 4162; 4178; 4193; 4206; 4222; 4237; 4253; 4278; 4297; 4313; 4326; 4339; 4357; 4371; 4385; 4401; 4423; 4439; 4458; 4480; 4496; 4519; 4538; 4552; 4568; 4582; 4602; 4618; 4631; 4653; 4686; 4700; 4720; 4733; 4747; 4801; 4814; 4837; 4850; 4869; 4886; 4913; 4949; 4982; 5001; 5026; 5047; 5074; 5087; 5104; 5118; 5133; 5149; 5209; 5234; 5250; 5272; 5285; 5299; 5330; 5344; 5369; 5387; 5402; 5415; 5434; 5447; 5462; 5491; 5510; 5528; 5553; 5568; 5587; 5603; 5622; 5640; 5656; 5670; 5689; 5716; 5739; 5761; 5780; 5795; 5808; 5825; 5845; 5872; 5885; 5904; 5929; 5952; 5966; 5979; 5996
MspJI	!NNNNNNNNNNNNNYNG	248	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 593; 612; 636; 653; 679; 704; 727; 744; 764; 784; 804; 824; 841; 860; 880; 910; 932; 956; 976; 998; 1022; 1039; 1061; 1078; 1105; 1123; 1158; 1180; 1210; 1227; 1244; 1264; 1284; 1307; 1333; 1354; 1374; 1394; 1413; 1430; 1456; 1477; 1502; 1521; 1543; 1566; 1588; 1624; 1643; 1661; 1678; 1701; 1726; 1765; 1798; 1835; 1858; 1899; 1918; 1939; 2009; 2034; 2057; 2114; 2156; 2181; 2222; 2247; 2287; 2321; 2345; 2370; 2391; 2433; 2450; 2470; 2491; 2508; 2526; 2547; 2569; 2598; 2624; 2645; 2666; 2691; 2735; 2777; 2860; 2895; 2922; 2945; 2974; 3018; 3040; 3072; 3108; 3125; 3146; 3183; 3203; 3220; 3237; 3272; 3290; 3308; 3325; 3349; 3371; 3398; 3426; 3452; 3490; 3511; 3528; 3546; 3569; 3590; 3618; 3641; 3662; 3680; 3701; 3718; 3741; 3765; 3785; 3803; 3825; 3856; 3878; 3904; 3923; 3940; 3968; 3987; 4006; 4024; 4042; 4063; 4085; 4109; 4142; 4162; 4180; 4201; 4227; 4254; 4271; 4288; 4305; 4331; 4353; 4375; 4393; 4413; 4432; 4454; 4492; 4512; 4536; 4556; 4576; 4603; 4627; 4660; 4679; 4707; 4729; 4758; 4786; 4811; 4830; 4849; 4870; 4887; 4904; 4935; 4962; 4982; 5005; 5025; 5062; 5079; 5098; 5124; 5144; 5183; 5210; 5229; 5247; 5284; 5302; 5343; 5361; 5387; 5404; 5436; 5465; 5493; 5514; 5537; 5556; 5577; 5595; 5612; 5630; 5656; 5677; 5697; 5717; 5735; 5756; 5782; 5799; 5818; 5837; 5866; 5885; 5903; 5922; 5940; 5958; 5981
MspR9I	CC!NGG	23	90; 283; 657; 658; 846; 856; 1054; 1492; 2448; 2553; 3561; 3616; 3633; 4029; 4189; 4412; 4802; 4991; 5094; 5566; 5784; 5797; 5918
MssI	GTTT!AAAC	0	
MunI	C!AATTG	2	1767; 2775
MvaI	CC!WGG	17	90; 283; 846; 856; 1054; 1492; 2448; 2553; 3561; 3616; 3633; 4412; 4991; 5094; 5784; 5797; 5918
MvaI269I	GAATGCN!	1	2776
MvaI269I	G!CATTC	1	2869
MvnI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1558; 2949; 3325; 3345; 3369; 3400; 4091; 4392; 4830; 4914; 4977; 5046; 5319; 5900

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 767; 788; 827; 884; 1157; 1196; 1453; 1525; 1564; 2541; 3252; 3282; 3309; 3351; 3592; 3664; 3715; 3794; 4016; 4100; 4123; 4262; 4385; 4468; 4735; 4922; 5126; 5325; 5897
NaeI	GCC!GGC	4	1445; 3244; 4527; 4810
NarI	GG!CGCC	3	689; 878; 4025
NciI	CC!SGG	6	657; 658; 4029; 4189; 4802; 5566
NcoI	C!CATGG	4	360; 1431; 3754; 4457
NdeI	CA!TATG	1	234
NdeII	!GATC	29	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1417; 1538; 1576; 1732; 2682; 3862; 3866; 3885; 4196; 4274; 4355; 4364; 4442; 4818; 4834; 5193; 5205; 5283; 5291; 5302; 5377
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	2	280; 884
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	2	244; 848
NgoMIV	G!CCGGC	4	1443; 3242; 4525; 4808
NheI	G!CTAGC	1	591
NlaIII	CATG!	23	304; 364; 681; 936; 1281; 1435; 1482; 1653; 2198; 2417; 3455; 3595; 3667; 3758; 3899; 4244; 4430; 4461; 4487; 4843; 5227; 5947; 5998
NlaIV	GGN!NCC	25	467; 647; 655; 662; 690; 879; 903; 1251; 1392; 1578; 1607; 2608; 3180; 3201; 3213; 3404; 3565; 3637; 4026; 4061; 4909; 4988; 5033; 5876; 5915
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	5	987; 2502; 2857; 3172; 4764
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 5836
Nli3877I	CYCGR!G	4	617; 660; 908; 1268
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1026; 3814; 4250
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	3779
NmeDI	RCCGGYNNNNNNNN!	9	678; 838; 1198; 1399; 1455; 3254; 4356; 4537; 4820
NmeDI	!NNNNNNNNNNNNRCCGGY	9	653; 813; 1173; 1374; 1430; 3229; 4331; 4512; 4795
NmuCI	!GTSAC	8	858; 1005; 1308; 1510; 1559; 3314; 4145; 4451
NotI	GC!GGCCGC	1	1553
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4127
NsiI	ATGCA!T	3	3597; 3669; 6000
NspI	RCATG!Y	5	936; 3595; 3667; 4430; 5947
NspV	TT!CGAA	2	627; 4707
OliI	CACNN!NNGTG	1	856
PabI	GTA!C	15	220; 245; 300; 333; 384; 541; 648; 899; 1031; 1124; 1271; 1681; 1923; 2055; 4332
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	936; 3595; 3667; 4430
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	3451; 5223
PaIAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4990; 5093
PauI	G!CGCGC	1	1350
PceI	AGG!CCT	1	3846
PciI	A!CATGT	1	5943
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	1150; 4369; 4579
PcsI	WCGNNNN!NNNCGW	6	4319; 4396; 4639; 4713; 5106; 5624
PctI	GAATGCN!	1	2776
PctI	G!CATTC	1	2869
PdiI	GCC!GGC	4	1445; 3244; 4527; 4810
PdmI	GAANN!NNTTC	1	916
PfeI	G!AWTC	8	1089; 1424; 2670; 4510; 4644; 4754; 4791; 5969
Pfl23II	C!GTACG	0	
PfIF1	GACN!NNGTC	1	4143
PfIMI	CCANNNN!NTGG	1	1080
PfoI	T!CCNGGA	1	4800

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PhoI	GG!CC	33	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1555; 2400; 2475; 2556; 2657; 2991; 3133; 3788; 3794; 3803; 3846; 3933; 4107; 4498; 4525; 5034; 5091; 5124; 5469; 5903; 5921; 5932
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNNNN!	2	1739; 4406
PlaDI	!NNNNNNNNNNNNNNNNNNNCTGATG	3	2275; 3971; 4226
PleI	GAGTCNNNN!	4	1605; 2395; 3076; 3508
PleI	!NNNNNGACTC	5	404; 598; 3084; 4690; 5567
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	4	1077; 1260; 1290; 1573
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	4	1077; 1260; 1290; 1573
PpiI	GAACNNNNNNCTCNNNNNNNNNNNNNN!	1	3107
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	5237
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	1	5269
PpiI	!NNNNNNNGAACNNNNNNCTC	1	3075
PpsI	GAGTCNNNN!	4	1605; 2395; 3076; 3508
PpsI	!NNNNNGACTC	5	404; 598; 3084; 4690; 5567
Ppu10I	A!TGCAT	3	3593; 3665; 5996
Ppu21I	YAC!GTR	9	340; 720; 948; 1077; 1260; 1290; 1573; 3141; 4329
PpuMI	RG!GWCCY	1	1606
PscI	A!CATGT	1	5943
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2808; 3013
Psp03I	GGWC!C	4	1509; 1609; 4544; 4989
Psp5II	RG!GWCCY	1	1606
Psp6I	!CCWGG	17	88; 281; 844; 854; 1052; 1490; 2446; 2551; 3559; 3614; 3631; 4410; 4989; 5092; 5782; 5795; 5916
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	4	1077; 1260; 1290; 1573
PspEI	G!GTNACC	2	858; 1005
PspGI	!CCWGG	17	88; 281; 844; 854; 1052; 1490; 2446; 2551; 3559; 3614; 3631; 4410; 4989; 5092; 5782; 5795; 5916
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	25	467; 647; 655; 662; 690; 879; 903; 1251; 1392; 1578; 1607; 2608; 3180; 3201; 3213; 3404; 3565; 3637; 4026; 4061; 4909; 4988; 5033; 5876; 5915
PspOMI	G!GGCCC	1	653
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNNNN!	4	125; 905; 3755; 4754
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	4157
PspPI	G!GNCC	17	83; 276; 654; 901; 1249; 1506; 1606; 2399; 2474; 2555; 2655; 3132; 4541; 4986; 5032; 5090; 5123
PspPPI	RG!GWCCY	1	1606
PspPRI	CCYAGNNNNNNNNNNNNNNNNNNNN!	3	3578; 3650; 5156
PspPRI	!NNNNNNNNNNNNNNNNNCTGRGG	4	1114; 2624; 3491; 4686
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	4	1609; 2402; 2658; 5126
PstI	CTGCA!G	2	638; 1521
PstNI	CAGNNN!CTG	3	2447; 5126; 5534
PsuI	R!GATCY	13	585; 609; 660; 710; 1417; 1576; 4196; 4442; 4834; 5193; 5205; 5291; 5302
PsyI	GACN!NNGTC	1	4143
PteI	G!CGCGC	1	1350
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	3523; 4131
RcaI	T!CATGA	2	3451; 5223
RceI	CATCGACNNNNNNNNNNNNNNNNNNNNNN!	1	4540
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNN!	3	2455; 2574; 2754
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	15	219; 244; 299; 332; 383; 540; 647; 898; 1030; 1123; 1270; 1680; 1922; 2054; 4331
RsaNI	G!TAC	15	218; 243; 298; 331; 382; 539; 646; 897; 1029; 1122; 1269; 1679; 1921; 2053; 4330
RseI	CAYNN!NNRTG	6	365; 856; 1225; 1717; 2021; 4462
RsrII	CG!GWCCG	1	4541
Rsr2I	CG!GWCCG	1	4541
SacI	GAGCT!C	1	620
SacII	CCGC!GG	2	652; 768
SalI	G!TCGAC	1	639
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	1150; 4369; 4579
SaqAI	T!TAA	28	7; 1643; 1784; 1834; 1842; 1883; 1892; 1994; 2029; 2044; 2096; 2116; 2242; 2601; 2726; 2787; 2908; 2929; 2940; 2952; 2963; 2980; 3078; 3349; 5168; 5182; 5187; 5239
SatI	GC!NGC	45	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1454; 1474; 1520; 1553; 1556; 1568; 2325; 2515; 2802; 3321; 3343; 3357; 3795; 3934; 3986; 3997; 4087; 4092; 4129; 4170; 4257; 4260; 4263; 4499; 4595; 4636; 4650; 4764; 5103; 5118; 5329; 5535; 5538; 5603; 5746; 5901
Sau96I	G!GNCC	17	83; 276; 654; 901; 1249; 1506; 1606; 2399; 2474; 2555; 2655; 3132; 4541; 4986; 5032; 5090; 5123
Sau3AI	!GATC	29	585; 609; 660; 710; 1134; 1181; 1215; 1314; 1417; 1538; 1576; 1732; 2682; 3862; 3866; 3885; 4196; 4274; 4355; 4364; 4442; 4818; 4834; 5193; 5205; 5283; 5291; 5302; 5377
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNN!	4	1606; 2396; 3077; 3509
SchI	!NNNNNGACTC	5	404; 598; 3084; 4690; 5567
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	23	90; 283; 657; 658; 846; 856; 1054; 1492; 2448; 2553; 3561; 3616; 3633; 4029; 4189; 4412; 4802; 4991; 5094; 5566; 5784; 5797; 5918
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	6	978; 1518; 3603; 3675; 3844; 5786
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	4	1509; 2425; 4180; 4665
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNTCAYNNNNGTC	0	
SdeOSI	TCAYNNNNGTCTNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	16	620; 657; 839; 845; 853; 1259; 1265; 1491; 3216; 3971; 4064; 4138; 4328; 4390; 5100; 5633
SelI	!CGCG	21	58; 649; 765; 996; 1035; 1320; 1350; 1556; 2947; 3323; 3343; 3367; 3398; 4089; 4390; 4828; 4912; 4975; 5044; 5317; 5898
SetI	ASST!	79	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 722; 757; 803; 874; 911; 931; 950; 970; 1007; 1012; 1046; 1079; 1262; 1285; 1292; 1298; 1375; 1408; 1569; 1575; 2308; 2329; 2340; 2397; 2446; 2458; 2576; 2608; 2715; 2736; 2745; 2757; 2806; 2973; 3088; 3100; 3143; 3180; 3230; 3253; 3377; 3525; 3620; 3813; 3926; 4054; 4133; 4144; 4216; 4287; 4331; 4591; 4737; 4781; 5112; 5143; 5202; 5245; 5388; 5409; 5508; 5645; 5660; 5679; 5691; 5735; 5781; 5832
SexAI	A!CCWGGT	1	3614
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNN!	8	770; 1721; 2841; 3604; 3676; 4324; 4388; 4663

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SfaNI	!NNNNNNNNNGATGC	7	357; 774; 795; 3983; 4238; 4454; 5846
SfcI	C!TRYAG	5	634; 1517; 3360; 5487; 5678
SfiI	GGCCNNNN!NGGCC	1	3800
SfoI	GGC!GCC	3	690; 879; 4026
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	2	652; 768
SfuI	TT!CGAA	2	627; 4707
SgeI	CNNGNNNNNNNNN!	224	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 705; 720; 778; 800; 822; 839; 852; 867; 894; 916; 936; 949; 964; 984; 1002; 1026; 1048; 1065; 1087; 1105; 1131; 1150; 1164; 1189; 1206; 1221; 1236; 1264; 1278; 1300; 1314; 1333; 1347; 1363; 1380; 1400; 1415; 1433; 1452; 1471; 1491; 1504; 1528; 1547; 1569; 1583; 1603; 1623; 1662; 1687; 1742; 1802; 1930; 2084; 2183; 2207; 2249; 2347; 2387; 2404; 2426; 2459; 2472; 2517; 2548; 2564; 2587; 2650; 2671; 2692; 2732; 2761; 2803; 2886; 2960; 3044; 3066; 3098; 3135; 3153; 3172; 3187; 3229; 3246; 3263; 3298; 3312; 3329; 3351; 3375; 3399; 3464; 3478; 3516; 3532; 3572; 3585; 3604; 3627; 3644; 3657; 3676; 3706; 3727; 3744; 3767; 3802; 3829; 3860; 3882; 3908; 3930; 3949; 3977; 4013; 4032; 4055; 4069; 4089; 4102; 4116; 4135; 4149; 4168; 4200; 4214; 4227; 4253; 4284; 4297; 4314; 4331; 4345; 4362; 4380; 4395; 4423; 4439; 4458; 4480; 4496; 4519; 4538; 4563; 4582; 4602; 4629; 4653; 4686; 4705; 4733; 4747; 4813; 4837; 4852; 4875; 4896; 4913; 4961; 4988; 5002; 5031; 5055; 5088; 5105; 5125; 5138; 5151; 5209; 5236; 5255; 5285; 5310; 5330; 5344; 5369; 5387; 5424; 5462; 5491; 5519; 5533; 5553; 5568; 5589; 5603; 5622; 5640; 5656; 5696; 5716; 5743; 5761; 5782; 5795; 5808; 5825; 5849; 5872; 5904; 5929; 5956; 5978
SgeI	!NNNNNNNNNNNNNCNNG	197	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 679; 706; 752; 774; 796; 813; 831; 853; 880; 910; 934; 958; 976; 1000; 1022; 1039; 1061; 1079; 1105; 1124; 1163; 1180; 1210; 1238; 1264; 1288; 1307; 1333; 1354; 1374; 1395; 1418; 1445; 1465; 1486; 1509; 1543; 1566; 1597; 1636; 1661; 1716; 1776; 1904; 2058; 2157; 2181; 2223; 2321; 2361; 2378; 2400; 2433; 2458; 2491; 2522; 2539; 2561; 2624; 2645; 2666; 2706; 2735; 2777; 2860; 2934; 3018; 3040; 3072; 3109; 3127; 3146; 3203; 3220; 3237; 3272; 3290; 3310; 3330; 3349; 3373; 3438; 3490; 3546; 3578; 3601; 3618; 3650; 3680; 3701; 3718; 3741; 3776; 3803; 3834; 3856; 3882; 3904; 3923; 3951; 3987; 4006; 4029; 4050; 4068; 4085; 4109; 4142; 4174; 4201; 4227; 4258; 4288; 4305; 4331; 4354; 4375; 4397; 4417; 4437; 4454; 4493; 4512; 4537; 4556; 4576; 4603; 4627; 4660; 4679; 4707; 4729; 4787; 4811; 4830; 4849; 4870; 4887; 4935; 4962; 4982; 5005; 5029; 5062; 5079; 5099; 5125; 5183; 5210; 5229; 5259; 5284; 5304; 5343; 5361; 5398; 5436; 5465; 5493; 5514; 5542; 5563; 5596; 5614; 5670; 5690; 5717; 5735; 5756; 5782; 5799; 5823; 5846; 5878; 5903; 5930; 5952; 5981
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	2	826; 1443
SgrBI	CCGC!GG	2	652; 768
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 3172; 4959; 5752
SimI	!GACCC	6	106; 992; 1606; 4453; 5021; 5269
SinI	G!GWCC	4	1506; 1606; 4541; 4986
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	6	365; 856; 1225; 1717; 2021; 4462
SmlI	C!TYRAG	8	613; 619; 2659; 2907; 4416; 5298; 5575; 5837
SmoI	C!TYRAG	8	613; 619; 2659; 2907; 4416; 5298; 5575; 5837
SmuI	CCCGCNNNN!	10	93; 119; 286; 1003; 1448; 3347; 3702; 3723; 4919; 5051
SmuI	!NNNNNNGCGGG	7	644; 1492; 3278; 4148; 4685; 4823; 4970

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TruI	T!TAA	28	7; 1643; 1784; 1834; 1842; 1883; 1892; 1994; 2029; 2044; 2096; 2116; 2242; 2601; 2726; 2787; 2908; 2929; 2940; 2952; 2963; 2980; 3078; 3349; 5168; 5182; 5187; 5239
Tru9I	T!TAA	28	7; 1643; 1784; 1834; 1842; 1883; 1892; 1994; 2029; 2044; 2096; 2116; 2242; 2601; 2726; 2787; 2908; 2929; 2940; 2952; 2963; 2980; 3078; 3349; 5168; 5182; 5187; 5239
TscAI	CASTGNN!	10	889; 1120; 1722; 2231; 2512; 2871; 4154; 5264; 5535; 5548
TseI	G!CWGC	22	683; 929; 1022; 1190; 1473; 1519; 1567; 2324; 2514; 2801; 3320; 3985; 4086; 4128; 4169; 4262; 4649; 5102; 5328; 5534; 5537; 5602
TsoI	TARCCANNNNNNNNNNN!	2	2997; 3344
TsoI	!NNNNNNNNNTGGYTA	5	932; 1630; 2532; 2802; 4554
Tsp45I	!GTSAC	8	858; 1005; 1308; 1510; 1559; 3314; 4145; 4451
Tsp509I	!AATT	23	18; 629; 984; 1101; 1767; 1785; 1816; 1995; 2077; 2091; 2231; 2286; 2493; 2592; 2775; 2839; 2917; 2943; 2954; 3601; 3673; 3765; 5183
TspDTI	ATGAANNNNNNNNNNN!	5	1243; 2665; 2783; 4084; 4788
TspDTI	!NNNNNNNNNTTCAT	11	26; 804; 1194; 1638; 1750; 1951; 2299; 2408; 4502; 4958; 5165
TspEI	!AATT	23	18; 629; 984; 1101; 1767; 1785; 1816; 1995; 2077; 2091; 2231; 2286; 2493; 2592; 2775; 2839; 2917; 2943; 2954; 3601; 3673; 3765; 5183
TspGWI	ACGGANNNNNNNNNNN!	1	4900
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	10	889; 1120; 1722; 2231; 2512; 2871; 4154; 5264; 5535; 5548
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	1	1927
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	1	1959
TstI	!NNNNNNNCACNNNNNTCC	0	
Tth111I	GAC!NNGTC	1	4143
Tth111II	CAARCANNNNNNNNNNN!	1	5352
Tth111III	!NNNNNNNNNTGYTTG	3	4460; 5320; 5359
UnbI	!GGNCC	17	82; 275; 653; 900; 1248; 1505; 1605; 2398; 2473; 2554; 2654; 3131; 4540; 4985; 5031; 5089; 5122
Van91I	CCANNNN!NTGG	1	1080
Vha464I	C!TTAAG	1	2907
VneI	G!TGCAC	2	1255; 5629
VpaK11AI	!GGWCC	4	1505; 1605; 4540; 4985
VpaK11BI	G!GWCC	4	1506; 1606; 4541; 4986
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	5	629; 2493; 2839; 2943; 2954
XbaI	T!CTAGA	1	2679
XceI	RCATG!Y	5	936; 3595; 3667; 4430; 5947
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	13	585; 609; 660; 710; 1417; 1576; 4196; 4442; 4834; 5193; 5205; 5291; 5302
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	3847; 4862
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	1	916
XspI	C!TAG	11	592; 1535; 1918; 2396; 2680; 2874; 3292; 3848; 4863; 5197; 5450
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3597; 3669; 6000