

pDendra2-fib vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2450; 2655
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2738; 3694; 5483
AatI	AGG!CCT	1	3488
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	0	
AccII	CG!CG	17	60; 653; 1073; 2555; 2591; 2967; 2987; 3011; 3042; 3733; 4034; 4472; 4556; 4619; 4688; 4961; 5542
AccIII	T!CCGGA	1	1881
Acc16I	TGC!GCA	1	3769
Acc36I	ACCTGCNNNN!	2	3935; 4385
Acc36I	!NNNNNNNNGCAGGT	1	3554
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	8	465; 733; 766; 991; 1846; 2820; 3666; 3701
AccB7I	CCANNNN!NTGG	2	1197; 2256
AccBSI	CCG!CTC	4	1757; 1919; 3091; 4280
AccBSI	GAG!CGG	2	2927; 4334
AceIII	CAGCTCNNNNNNN!	1	2623
AceIII	!NNNNNNNNNNGAGCTG	1	552
AciI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 743; 803; 936; 1206; 1272; 1603; 1755; 1917; 2004; 2212; 2982; 2985; 2999; 3089; 3337; 3349; 3358; 3370; 3380; 3391; 3437; 3576; 3639; 4141; 4186; 4252; 4278; 4403; 4406; 4554; 4686; 4993; 5137; 5633
AciI	G!CGG	33	370; 403; 528; 1121; 1124; 1313; 1373; 1427; 1445; 1484; 1487; 1490; 1493; 2927; 2954; 3042; 3152; 3733; 3797; 3898; 3901; 4181; 4236; 4334; 4472; 4619; 4759; 5002; 5247; 5368; 5387; 5514; 5542
AcI	AA!CGTT	0	
AcIWI	GGATCNNNN!	9	2310; 2319; 3535; 3846; 4092; 4484; 4843; 4941; 5027
AcIWI	!NNNNNGATCC	8	580; 1209; 1791; 2297; 3911; 4455; 4842; 4939
AcoI	Y!GGCCR	9	684; 1125; 1374; 1923; 1943; 3573; 3747; 4138; 4165
AcsI	R!AATY	3	2481; 2585; 2596
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	1057; 3813; 4245
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	765; 5043
AcvI	CAC!GTG	1	1068
AcyI	GR!CGYC	9	122; 175; 258; 444; 767; 1187; 3667; 4369; 4448
AdeI	CACNNN!GTG	4	1197; 1266; 2115; 2783
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 838; 1255; 1321; 1735; 2272; 3973
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	27	49; 639; 730; 1009; 1040; 1086; 1113; 1197; 1360; 1952; 2070; 2256; 2679; 3005; 3397; 3648; 4192; 4473; 4505; 4637; 4672; 4722; 4754; 5107; 5386; 5552; 5570
AflIII	C!TTAAG	0	
AflIII	A!CRYGT	2	2553; 5585
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	8	864; 987; 1146; 3078; 3122; 3132; 3545; 5121
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	19	88; 281; 950; 1217; 1292; 1341; 1664; 1671; 1741; 1778; 3201; 3256; 3273; 4052; 4631; 4734; 5424; 5437; 5558
AjuI	GAANNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNTTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	CCAANNNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	805
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	3241; 3313
AlfI	!NNNNNNNNNGGCANNNNNNTGC	2	3207; 3279
AloI	GAACNNNNNTTCNNNNNNNNNNNN!	2	2319; 2749
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	2	2287; 2717
AluI	AG!CT	19	566; 785; 872; 890; 1062; 1179; 1251; 1764; 2446; 2613; 2870; 3165; 3453; 3773; 4231; 5028; 5285; 5331; 5421
AluBI	AG!CT	19	566; 785; 872; 890; 1062; 1179; 1251; 1764; 2446; 2613; 2870; 3165; 3453; 3773; 4231; 5028; 5285; 5331; 5421
AlwI	GGATCNNNN!	9	2310; 2319; 3535; 3846; 4092; 4484; 4843; 4941; 5027
AlwI	!NNNNNGATCC	8	580; 1209; 1791; 2297; 3911; 4455; 4842; 4939
Alw21I	GWGCW!C	6	665; 812; 1262; 3780; 3970; 5275
Alw26I	GTCTCN!	4	434; 1707; 1860; 1869
Alw26I	!NNNNNGAGAC	5	2240; 3091; 3509; 4528; 4656
Alw44I	G!TGCAC	3	661; 808; 5271
AlwNI	CAGNNN!CTG	2	4768; 5176
Ama87I	C!YCGRG	6	621; 841; 877; 1328; 1831; 1842
Aor13HI	T!CCGGA	1	1881
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	3	3235; 3307; 4769
ApaLI	G!TGCAC	3	661; 808; 5271
ApeKI	G!CWGC	21	938; 1062; 1110; 1176; 1179; 1768; 1771; 1837; 2443; 2962; 3627; 3728; 3770; 3811; 3904; 4291; 4744; 4970; 5176; 5179; 5244
ApoI	R!AATTY	3	2481; 2585; 2596
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4182
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	3976; 4629; 5467
AquI	GCCGNACNNNNNNNNNNNNNNNNNN!	1	4066
AquI	!NNNNNNNNNNNNNNNNNGTNCGGC	1	1283
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	3	1494; 1524; 3495
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	2	1530; 1606
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	3	855; 981; 4237
ArsI	GACNNNNNTTYGNNNNNNNNNN!	1	1209
ArsI	!NNNNNCRANNNNNNGTC	0	
ArsI	CRAANNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	1	1177
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	26	586; 636; 699; 1215; 1797; 1974; 2031; 2303; 2312; 2325; 3505; 3509; 3528; 3839; 3917; 3998; 4007; 4085; 4461; 4477; 4836; 4848; 4926; 4934; 4945; 5020
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3785
Asp700I	GAANN!NNTTC	1	1750
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3489; 4504
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	26	597; 653; 769; 899; 983; 1073; 2933; 2941; 2967; 2989; 2998; 3011; 3042; 3661; 3669; 3733; 3770; 4036; 4296; 4472; 4558; 4961; 5070; 5244; 5344; 5411
AspS9I	G!GNCC	20	83; 276; 1012; 1104; 1200; 1269; 1301; 1431; 1668; 1791; 1879; 1955; 2046; 2073; 2774; 4183; 4628; 4674; 4732; 4765
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	4349
AsuC2I	CC!SGG	10	622; 623; 823; 1543; 1811; 2064; 3671; 3831; 4444; 5208
AsuHPI	GGTGANNNNNNN!	6	376; 1257; 1402; 2301; 4738; 4854
AsuHPI	!NNNNNNNTCACC	4	822; 1647; 2784; 3845
AsuNHI	G!CTAGC	2	591; 1764
AvaI	C!YCGRG	6	621; 841; 877; 1328; 1831; 1842

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AvaII	G!GWCC	8	1200; 1301; 1668; 1791; 1879; 1955; 4183; 4628
AviII	TGC!GCA	1	3769
AvrII	C!CTAGG	2	3489; 4504
AxyI	CC!TNAGG	2	3147; 4779
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	665; 736; 812; 994; 1849; 3613; 3706; 5275
BalI	TGG!CCA	2	1945; 3749
BamHI	G!GATCC	1	2302
BanI	G!GYRCC	8	465; 733; 766; 991; 1846; 2820; 3666; 3701
BanII	GRGCY!C	4	1049; 2858; 4032; 4742
BanIII	AT!CGAT	1	3507
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	2	1197; 2256
BauI	C!ACGAG	2	4385; 5412
BauI	C!TCGTG	1	4259
BbeI	GGCGC!C	2	770; 3670
Bbr7I	GAAGACNNNNNNN!	1	1041
Bbr7I	!NNNNNNNNNNNGTCTTC	1	1609
BbrPI	CAC!GTG	1	1068
BbsI	GAAGACNN!	1	1036
BbsI	!NNNNNNGTCTTC	1	1614
BbuI	GCATG!C	4	2010; 3237; 3309; 4072
BbvI	GCAGCNNNNNNNN!	9	950; 1188; 1780; 2455; 3740; 3782; 4303; 4756; 5256
BbvI	!NNNNNNNNNNNNNGCTGC	10	1049; 1097; 1166; 1824; 2949; 3614; 3798; 3891; 4957; 5163
Bbv12I	GWGCW!C	6	665; 812; 1262; 3780; 3970; 5275
BbvCI	CC!TCAGC	1	2154
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	940; 2797; 3361; 3887; 4389
BccI	!NNNNNGATGG	5	1587; 1879; 2765; 3545; 3973
BceAI	ACGGCNNNNNNNNNNNN!	6	699; 831; 1026; 1092; 4093; 4580
BceAI	!NNNNNNNNNNNNNGCCGT	8	790; 1249; 1910; 2149; 2239; 2808; 3626; 5085
BceFI	ACGGCNNNNNNNNNNNN!	6	699; 831; 1026; 1092; 4093; 4580
BceFI	!NNNNNNNNNNNNNGCCGT	8	791; 1250; 1911; 2150; 2240; 2809; 3627; 5086
BcgI	CGANNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	1	1995
BcgI	GCANNNNNTCGNNNNNNNNNNNN!	1	2029
BcgI	!NNNNNNNNNNCGANNNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3096; 3886; 5387
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	2	635; 2324
BcnI	CC!SGG	10	622; 623; 823; 1543; 1811; 2064; 3671; 3831; 4444; 5208
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNNTCANNNNNNNNNNNN!	2	2347; 5520
BdaI	!NNNNNNNNNNNTGANNNNNNNTCA	2	2313; 5486
BfaI	C!TAG	10	592; 1765; 1891; 2315; 2516; 2934; 3490; 4505; 4839; 5092
BfiI	ACTGGGNNNNN!	1	3616
BfiI	!NNNNCCCAGT	2	289; 3368
BfmI	C!TRYAG	5	885; 1275; 3002; 5129; 5320
BfoI	RGCGC!Y	6	598; 770; 2934; 2942; 3670; 5345
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	3096; 3886; 5387
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3935; 4385
BfuAI	!NNNNNNNNNGCAGGT	1	3554
BfuCI	!GATC	26	585; 635; 698; 1214; 1796; 1973; 2030; 2302; 2311; 2324; 3504; 3508; 3527; 3838; 3916; 3997; 4006; 4084; 4460; 4476; 4835; 4847; 4925; 4933; 4944; 5019
BglI	GCCNNNN!NGGC	8	90; 212; 283; 956; 1382; 1418; 1608; 3442
BglII	A!GATCT	0	

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BisI	GC!NGC	44	939; 1063; 1111; 1122; 1125; 1177; 1180; 1314; 1374; 1485; 1488; 1491; 1603; 1769; 1772; 1838; 2212; 2444; 2963; 2985; 2999; 3437; 3576; 3628; 3639; 3729; 3734; 3771; 3812; 3899; 3905; 4141; 4237; 4278; 4292; 4406; 4745; 4760; 4971; 5177; 5180; 5245; 5388; 5543
BlnI	C!CTAGG	2	3489; 4504
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	44	940; 1064; 1112; 1123; 1126; 1178; 1181; 1315; 1375; 1486; 1489; 1492; 1604; 1770; 1773; 1839; 2213; 2445; 2964; 2986; 3000; 3438; 3577; 3629; 3640; 3730; 3735; 3772; 3813; 3900; 3906; 4142; 4238; 4279; 4293; 4407; 4746; 4761; 4972; 5178; 5181; 5246; 5389; 5544
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	8	1200; 1301; 1668; 1791; 1879; 1955; 4183; 4628
Bme1390I	CC!NGG	29	90; 283; 622; 623; 823; 952; 1219; 1294; 1343; 1543; 1666; 1673; 1743; 1780; 1811; 2064; 3203; 3258; 3275; 3671; 3831; 4054; 4444; 4633; 4736; 5208; 5426; 5439; 5560
BmeRI	GACNN!NNGTC	0	
BmeT110I	C!YCGRG	6	621; 841; 877; 1328; 1831; 1842
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	20	84; 277; 1013; 1105; 1201; 1270; 1302; 1432; 1669; 1792; 1880; 1956; 2047; 2074; 2775; 4184; 4629; 4675; 4733; 4766
BmiI	GGN!NCC	25	467; 735; 768; 993; 1014; 1046; 1432; 1601; 1670; 1747; 1848; 2304; 2822; 2843; 2855; 3046; 3207; 3279; 3668; 3703; 4551; 4630; 4675; 5518; 5557
BmrI	ACTGGGNNNNN!	1	3616
BmrI	!NNNNCCCAGT	2	289; 3368
BmrFI	CC!NGG	29	90; 283; 622; 623; 823; 952; 1219; 1294; 1343; 1543; 1666; 1673; 1743; 1780; 1811; 2064; 3203; 3258; 3275; 3671; 3831; 4054; 4444; 4633; 4736; 5208; 5426; 5439; 5560
BmsI	GCATCNNNNN!	9	932; 1217; 1614; 2483; 3246; 3318; 3966; 4030; 4305
BmsI	!NNNNNNNNNGATGC	9	357; 1010; 1635; 1971; 2180; 3625; 3880; 4096; 5488
BmtI	GCTAG!C	2	595; 1768
BmuI	ACTGGGNNNNN!	1	3616
BmuI	!NNNNCCCAGT	2	289; 3368
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	1	1036
BpiI	!NNNNNNGTCTTC	1	1614
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3456; 4355
BpI	!NNNNNNNNGAGNNNNNCTC	2	3424; 4323
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	973; 1135; 4507
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	4450
Bpu10I	CC!TNAGC	1	2154
Bpu10I	GC!TNAGG	1	1817
Bpu14I	TT!CGAA	1	4349
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	1036
BpuAI	!NNNNNNGTCTTC	1	1614
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	2251; 4961; 5500
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	2	4043; 5202
BpuMI	CC!SGG	10	622; 623; 823; 1543; 1811; 2064; 3671; 3831; 4444; 5208
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	1	1860
BsaI	!NNNNNGAGACC	2	2240; 4656
Bsa29I	AT!CGAT	1	3507
BsaAI	YAC!GTR	4	340; 1068; 2783; 3971
BsaBI	GATNN!NNATC	3	1801; 2329; 3526
BsaHI	GR!CGYC	9	122; 175; 258; 444; 767; 1187; 3667; 4369; 4448
BsaJI	C!CNNGG	35	360; 620; 842; 878; 1218; 1265; 1356; 1377; 1395; 1413; 1434; 1542; 1672; 1779; 1810; 1830; 1841; 1850; 2159; 2255; 2285; 3201; 3273; 3396; 3431; 3440; 3489; 3830; 4099; 4504; 4631; 4632; 4734; 4735; 5425
BsaMI	GAATGCN!	2	2085; 2418
BsaMI	G!CATTC	1	2511
BsaWI	W!CCGGW	7	600; 1881; 2308; 3698; 4542; 5232; 5379
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2747

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BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNCTCC	1	2717
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	2668; 4575
Bsc4I	CCNNNN!NNGG	27	49; 639; 730; 1009; 1040; 1086; 1113; 1197; 1360; 1952; 2070; 2256; 2679; 3005; 3397; 3648; 4192; 4473; 4505; 4637; 4672; 4722; 4754; 5107; 5386; 5552; 5570
BscAI	GCATCNNNN!	9	931; 1216; 1613; 2482; 3245; 3317; 3965; 4029; 4304
BscAI	!NNNNNGATGC	9	360; 1013; 1638; 1974; 2183; 3628; 3883; 4099; 5491
BseI	ACTGGN!	4	1655; 3611; 3812; 5058
BseI	C!CAGT	6	295; 1575; 2696; 3374; 5170; 5183
Bse8I	GATNN!NNATC	3	1801; 2329; 3526
Bse21I	CC!TNAGG	2	3147; 4779
Bse118I	R!CCGGY	5	600; 2884; 3986; 4167; 4450
BseAI	T!CCGGA	1	1881
BseBI	CC!WGG	19	90; 283; 952; 1219; 1294; 1343; 1666; 1673; 1743; 1780; 3203; 3258; 3275; 4054; 4633; 4736; 5426; 5439; 5560
BseCI	AT!CGAT	1	3507
BseDI	C!CNNGG	35	360; 620; 842; 878; 1218; 1265; 1356; 1377; 1395; 1413; 1434; 1542; 1672; 1779; 1810; 1830; 1841; 1850; 2159; 2255; 2285; 3201; 3273; 3396; 3431; 3440; 3489; 3830; 4099; 4504; 4631; 4632; 4734; 4735; 5425
Bse3DI	GCAATGNN!	2	2024; 3900
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	7	1890; 1986; 2031; 3527; 3984; 4009; 4463
BseGI	!CATCC	4	791; 848; 932; 3353
BseJI	GATNN!NNATC	3	1801; 2329; 3526
BseLI	CCNNNN!NNGG	27	49; 639; 730; 1009; 1040; 1086; 1113; 1197; 1360; 1952; 2070; 2256; 2679; 3005; 3397; 3648; 4192; 4473; 4505; 4637; 4672; 4722; 4754; 5107; 5386; 5552; 5570
BseMI	GCAATGNN!	2	2024; 3900
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	2168; 4793
BseMII	!NNNNNNNNCTGAG	6	2289; 3138; 3440; 4321; 4893; 5302
BseNI	ACTGGN!	4	1655; 3611; 3812; 5058
BseNI	C!CAGT	6	295; 1575; 2696; 3374; 5170; 5183
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	3	1484; 1514; 3485
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	8	665; 736; 812; 994; 1849; 3613; 3706; 5275
BseXI	GCAGCNNNNNNNN!	9	950; 1188; 1780; 2455; 3740; 3782; 4303; 4756; 5256
BseXI	!NNNNNNNNNNNGCTGC	10	1049; 1097; 1166; 1824; 2949; 3614; 3798; 3891; 4957; 5163
BseX3I	C!GGCCG	2	1374; 3573
BseYI	C!CCAGC	6	1048; 1288; 2048; 3210; 3282; 5281
BseYI	G!CTGGG	2	890; 4171
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1195
BsgI	!NNNNNNNNNNNNNNCTGCAC	2	912; 1048
Bsh1236I	CG!CG	17	60; 653; 1073; 2555; 2591; 2967; 2987; 3011; 3042; 3733; 4034; 4472; 4556; 4619; 4688; 4961; 5542
Bsh1285I	CGRY!CG	4	605; 1377; 3576; 5251
BshFI	GG!CC	36	84; 277; 686; 1013; 1079; 1105; 1127; 1162; 1270; 1376; 1412; 1433; 1925; 1945; 2047; 2074; 2131; 2164; 2277; 2633; 2775; 3430; 3436; 3445; 3488; 3575; 3749; 4140; 4167; 4676; 4733; 4766; 5111; 5545; 5563; 5574
BshNI	G!GYRCC	8	465; 733; 766; 991; 1846; 2820; 3666; 3701
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	3507
BsiEI	CGRY!CG	4	605; 1377; 3576; 5251
BsiHKAI	GWGCW!C	6	665; 812; 1262; 3780; 3970; 5275
BsiHKCI	C!YCGRG	6	621; 841; 877; 1328; 1831; 1842
BsiSI	C!CGG	25	601; 622; 822; 1304; 1542; 1810; 1882; 2064; 2309; 2885; 3572; 3649; 3671; 3699; 3830; 3920; 3987; 4168; 4443; 4451; 4543; 5017; 5207; 5233; 5380
BsiWI	C!GTACG	0	

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BsI	CCNNTNNNNNNN	27	49; 639; 730; 1009; 1040; 1086; 1113; 1197; 1360; 1952; 2070; 2256; 2679; 3005; 3397; 3648; 4192; 4473; 4505; 4637; 4672; 4722; 4754; 5107; 5386; 5552; 5570
BsFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3818; 4350; 4459
BsFI	!NNNNNNNNNNNNNGTCCC	6	1337; 1654; 3183; 3255; 3319; 4614
BsmI	GAATGCN!	2	2085; 2418
BsmI	G!CATTC	1	2511
BsmAI	GTCTCN!	4	434; 1707; 1860; 1869
BsmAI	!NNNNNGAGAC	5	2240; 3091; 3509; 4528; 4656
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3818; 4350; 4459
BsmFI	!NNNNNNNNNNNNNGTCCC	6	1337; 1654; 3183; 3255; 3319; 4614
BsnI	GG!CC	36	84; 277; 686; 1013; 1079; 1105; 1127; 1162; 1270; 1376; 1412; 1433; 1925; 1945; 2047; 2074; 2131; 2164; 2277; 2633; 2775; 3430; 3436; 3445; 3488; 3575; 3749; 4140; 4167; 4676; 4733; 4766; 5111; 5545; 5563; 5574
Bso31I	GGTCTCN!	1	1860
Bso31I	!NNNNNGAGACC	2	2240; 4656
BsoBI	C!YCGRG	6	621; 841; 877; 1328; 1831; 1842
Bsp13I	T!CCGGA	1	1881
Bsp19I	C!CATGG	3	360; 3396; 4099
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4470
Bsp24I	!NNNNNNCCANNNNNNNGTC	3	1285; 4891; 5069
Bsp24I	CCANNNNNNGTCCNNNNNNNNNN!	3	1317; 4923; 5101
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4438
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4349
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	26	585; 635; 698; 1214; 1796; 1973; 2030; 2302; 2311; 2324; 3504; 3508; 3527; 3838; 3916; 3997; 4006; 4084; 4460; 4476; 4835; 4847; 4925; 4933; 4944; 5019
Bsp1286I	GDGCH!C	15	665; 736; 812; 994; 1049; 1262; 1849; 2858; 3613; 3706; 3780; 3970; 4032; 4742; 5275
Bsp1407I	T!GTACA	2	1319; 2270
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 743; 803; 936; 1206; 1272; 1603; 1755; 1917; 2004; 2212; 2982; 2985; 2999; 3089; 3337; 3349; 3358; 3370; 3380; 3391; 3437; 3576; 3639; 4141; 4186; 4252; 4278; 4403; 4406; 4554; 4686; 4993; 5137; 5633
BspACI	G!CGG	33	370; 403; 528; 1121; 1124; 1313; 1373; 1427; 1445; 1484; 1487; 1490; 1493; 2927; 2954; 3042; 3152; 3733; 3797; 3898; 3901; 4181; 4236; 4334; 4472; 4619; 4759; 5002; 5247; 5368; 5387; 5514; 5542
BspCNI	CTCAGNNNNNNNN!	2	2167; 4792
BspCNI	!NNNNNNNCTGAG	6	2290; 3139; 3441; 4322; 4894; 5303
BspDI	AT!CGAT	1	3507
BspD6I	GACTCNNNN!	6	418; 1334; 2151; 2740; 4346; 5223
BspD6I	!NNNNNNAGATC	3	1693; 2703; 3135
BspEI	T!CCGGA	1	1881
BspFNI	CG!CG	17	60; 653; 1073; 2555; 2591; 2967; 2987; 3011; 3042; 3733; 4034; 4472; 4556; 4619; 4688; 4961; 5542
BspHI	T!CATGA	2	3093; 4865
BspLI	GGN!NCC	25	467; 735; 768; 993; 1014; 1046; 1432; 1601; 1670; 1747; 1848; 2304; 2822; 2843; 2855; 3046; 3207; 3279; 3668; 3703; 4551; 4630; 4675; 5518; 5557
BspMI	ACCTGCNNNN!	2	3935; 4385
BspMI	!NNNNNNNCGAGGT	1	3554
BspOI	GCTAG!C	2	595; 1768
BspPI	GGATCNNNN!	9	2310; 2319; 3535; 3846; 4092; 4484; 4843; 4941; 5027
BspPI	!NNNNNGATCC	8	580; 1209; 1791; 2297; 3911; 4455; 4842; 4939
BspQI	GCTTTCN!	0	
BspQI	!NNNNGAAGAGC	2	4011; 4221
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4349
BspT107I	G!GYRCC	8	465; 733; 766; 991; 1846; 2820; 3666; 3701
BspTNI	GGTCTCN!	1	1860

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspTNI	!NNNNNGAGACC	2	2240; 4656
BsrI	ACTGGN!	4	1655; 3611; 3812; 5058
BsrI	C!CAGT	6	295; 1575; 2696; 3374; 5170; 5183
BsrBI	CCG!CTC	4	1757; 1919; 3091; 4280
BsrBI	GAG!CGG	2	2927; 4334
BsrDI	GCAATGNN!	2	2024; 3900
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	5	600; 2884; 3986; 4167; 4450
BsrGI	T!GTACA	2	1319; 2270
BsrSI	ACTGGN!	4	1655; 3611; 3812; 5058
BsrSI	C!CAGT	6	295; 1575; 2696; 3374; 5170; 5183
BssAI	R!CCGGY	5	600; 2884; 3986; 4167; 4450
BssECI	C!CNNGG	35	360; 620; 842; 878; 1218; 1265; 1356; 1377; 1395; 1413; 1434; 1542; 1672; 1779; 1810; 1830; 1841; 1850; 2159; 2255; 2285; 3201; 3273; 3396; 3431; 3440; 3489; 3830; 4099; 4504; 4631; 4632; 4734; 4735; 5425
BssHII	G!CGCGC	0	
BssKI	!CCNGG	29	88; 281; 620; 621; 821; 950; 1217; 1292; 1341; 1541; 1664; 1671; 1741; 1778; 1809; 2062; 3201; 3256; 3273; 3669; 3829; 4052; 4442; 4631; 4734; 5206; 5424; 5437; 5558
BssMI	!GATC	26	585; 635; 698; 1214; 1796; 1973; 2030; 2302; 2311; 2324; 3504; 3508; 3527; 3838; 3916; 3997; 4006; 4084; 4460; 4476; 4835; 4847; 4925; 4933; 4944; 5019
BssNI	GR!CGYC	9	122; 175; 258; 444; 767; 1187; 3667; 4369; 4448
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4385; 5412
BssSI	C!TCGTG	1	4259
BssTII	C!CWWGG	6	360; 2285; 3396; 3489; 4099; 4504
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	6	1503; 1690; 1945; 3134; 4011; 4221
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 767; 1187; 3667; 4369; 4448
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	3234; 3306; 4768
BstAUI	T!GTACA	2	1319; 2270
BstBI	TT!CGAA	1	4349
Bst2BI	C!ACGAG	2	4385; 5412
Bst2BI	C!TCGTG	1	4259
BstBAI	YAC!GTR	4	340; 1068; 2783; 3971
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 756; 1396; 1854; 2758; 4047; 4163; 4271; 4594; 5085; 5555; 5626
BstC8I	GCN!NGC	33	86; 279; 593; 721; 1081; 1262; 1272; 1766; 2008; 2886; 2929; 2943; 3216; 3235; 3288; 3307; 3561; 3747; 3966; 4032; 4038; 4070; 4111; 4115; 4169; 4452; 4639; 4686; 4742; 4764; 4975; 5535; 5572
BstDEI	C!TNAG	9	1817; 2154; 2298; 3147; 3449; 4330; 4779; 4902; 5311
BstDSI	C!CRYGG	8	360; 1265; 1356; 1395; 1850; 2255; 3396; 4099
BstEII	G!GTNACC	2	1390; 1653
BstENI	CCTNN!NNNAGG	1	637
BstF5I	GGATGNN!	7	1890; 1986; 2031; 3527; 3984; 4009; 4463
BstF5I	!CATCC	4	791; 848; 932; 3353
BstFNI	CG!CG	17	60; 653; 1073; 2555; 2591; 2967; 2987; 3011; 3042; 3733; 4034; 4472; 4556; 4619; 4688; 4961; 5542
BstH2I	RGCGC!Y	6	598; 770; 2934; 2942; 3670; 5345
BstHHI	GCG!C	26	597; 653; 769; 899; 983; 1073; 2933; 2941; 2967; 2989; 2998; 3011; 3042; 3661; 3669; 3733; 3770; 4036; 4296; 4472; 4558; 4961; 5070; 5244; 5344; 5411
BstKTI	GAT!C	26	588; 638; 701; 1217; 1799; 1976; 2033; 2305; 2314; 2327; 3507; 3511; 3530; 3841; 3919; 4000; 4009; 4087; 4463; 4479; 4838; 4850; 4928; 4936; 4947; 5022
BstMAI	GTCTCN!	4	434; 1707; 1860; 1869
BstMAI	!NNNNNGAGAC	5	2240; 3091; 3509; 4528; 4656
BstMBI	!GATC	26	585; 635; 698; 1214; 1796; 1973; 2030; 2302; 2311; 2324; 3504; 3508; 3527; 3838; 3916; 3997; 4006; 4084; 4460; 4476; 4835; 4847; 4925; 4933; 4944; 5019
BstMCI	CGRY!CG	4	605; 1377; 3576; 5251

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstMWI	GCNNNNN!NNGC	42	90; 212; 244; 283; 376; 400; 896; 935; 947; 989; 1068; 1229; 1257; 1313; 1373; 1382; 1418; 1490; 1608; 2044; 2080; 2170; 2217; 2894; 2924; 2951; 2993; 3234; 3306; 3357; 3436; 3658; 3742; 3765; 3904; 4027; 4110; 4377; 4564; 4768; 4967; 5539
BstNI	CC!WGG	19	90; 283; 952; 1219; 1294; 1343; 1666; 1673; 1743; 1780; 3203; 3258; 3275; 4054; 4633; 4736; 5426; 5439; 5560
BstNSI	RCATG!Y	6	651; 2010; 3237; 3309; 4072; 5589
BstOI	CC!WGG	19	90; 283; 952; 1219; 1294; 1343; 1666; 1673; 1743; 1780; 3203; 3258; 3275; 4054; 4633; 4736; 5426; 5439; 5560
BstPI	G!GTNACC	2	1390; 1653
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	29	88; 281; 620; 621; 821; 950; 1217; 1292; 1341; 1541; 1664; 1671; 1741; 1778; 1809; 2062; 3201; 3256; 3273; 3669; 3829; 4052; 4442; 4631; 4734; 5206; 5424; 5437; 5558
BstSFI	C!TRYAG	5	885; 1275; 3002; 5129; 5320
BstSLI	GKGC!C	8	665; 736; 812; 994; 1849; 3613; 3706; 5275
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	17	60; 653; 1073; 2555; 2591; 2967; 2987; 3011; 3042; 3733; 4034; 4472; 4556; 4619; 4688; 4961; 5542
Bst2UI	CC!WGG	19	90; 283; 952; 1219; 1294; 1343; 1666; 1673; 1743; 1780; 3203; 3258; 3275; 4054; 4633; 4736; 5426; 5439; 5560
BstVII	GCAGC!NNNNNNN!	9	950; 1188; 1780; 2455; 3740; 3782; 4303; 4756; 5256
BstVII	!NNNNNNNNNNNGCTGC	10	1049; 1097; 1166; 1824; 2949; 3614; 3798; 3891; 4957; 5163
BstV2I	GAAGACNN!	1	1036
BstV2I	!NNNNNGTCTTC	1	1614
BstXI	CCANNNNN!NTGG	4	1170; 1534; 1665; 1921
BstX2I	R!GATCY	12	585; 1214; 1796; 2302; 2311; 3838; 4084; 4476; 4835; 4847; 4933; 4944
BstYI	R!GATCY	12	585; 1214; 1796; 2302; 2311; 3838; 4084; 4476; 4835; 4847; 4933; 4944
BstZI	C!GGCCG	2	1374; 3573
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3096; 3886; 5387
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3507
Bsu36I	CC!TNAGG	2	3147; 4779
BsuRI	GG!CC	36	84; 277; 686; 1013; 1079; 1105; 1127; 1162; 1270; 1376; 1412; 1433; 1925; 1945; 2047; 2074; 2131; 2164; 2277; 2633; 2775; 3430; 3436; 3445; 3488; 3575; 3749; 4140; 4167; 4676; 4733; 4766; 5111; 5545; 5563; 5574
BsuTUI	AT!CGAT	1	3507
BtgI	C!CRYGG	8	360; 1265; 1356; 1395; 1850; 2255; 3396; 4099
BtgZI	GCGATGNNNNNNNNN!	2	2784; 4119
BtgZI	!NNNNNNNNNNNNNCATCGC	4	334; 1998; 3938; 4282
BthCI	GCNG!C	44	941; 1065; 1113; 1124; 1127; 1179; 1182; 1316; 1376; 1487; 1490; 1493; 1605; 1771; 1774; 1840; 2214; 2446; 2965; 2987; 3001; 3439; 3578; 3630; 3641; 3731; 3736; 3773; 3814; 3901; 3907; 4143; 4239; 4280; 4294; 4408; 4747; 4762; 4973; 5179; 5182; 5247; 5390; 5545
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2506
BtsCI	GGATGNN!	7	1890; 1986; 2031; 3527; 3984; 4009; 4463
BtsCI	!CATCC	4	791; 848; 932; 3353
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3935; 4385
BveI	!NNNNNNNNNGCAGGT	1	3554
Cac8I	GCN!NGC	33	86; 279; 593; 721; 1081; 1262; 1272; 1766; 2008; 2886; 2929; 2943; 3216; 3235; 3288; 3307; 3561; 3747; 3966; 4032; 4038; 4070; 4111; 4115; 4169; 4452; 4639; 4686; 4742; 4764; 4975; 5535; 5572
CaiI	CAGNNN!CTG	2	4768; 5176
CciI	T!CATGA	2	3093; 4865
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	9	352; 1212; 1609; 1875; 2016; 3956; 3961; 4159; 4300
CdiI	C!GATG	2	2770; 4105

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	2	1470; 5539
CdpI	!NNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3328; 3370
CelII	GC!TNAGC	0	
CfoI	GCG!C	26	597; 653; 769; 899; 983; 1073; 2933; 2941; 2967; 2989; 2998; 3011; 3042; 3661; 3669; 3733; 3770; 4036; 4296; 4472; 4558; 4961; 5070; 5244; 5344; 5411
CfrI	Y!GGCCR	9	684; 1125; 1374; 1923; 1943; 3573; 3747; 4138; 4165
Cfr9I	C!CCGGG	1	621
Cfr10I	R!CCGGY	5	600; 2884; 3986; 4167; 4450
Cfr13I	G!GNCC	20	83; 276; 1012; 1104; 1200; 1269; 1301; 1431; 1668; 1791; 1879; 1955; 2046; 2073; 2774; 4183; 4628; 4674; 4732; 4765
Cfr42I	CCGC!GG	0	
ChaI	GATC!	26	589; 639; 702; 1218; 1800; 1977; 2034; 2306; 2315; 2328; 3508; 3512; 3531; 3842; 3920; 4001; 4010; 4088; 4464; 4480; 4839; 4851; 4929; 4937; 4948; 5023
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	6	1153; 1318; 3484; 4924; 5024; 5102
CjeI	!NNNNNNNNNACNNNNNTGG	8	64; 257; 1726; 3151; 3246; 4438; 4988; 5543
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	8	98; 291; 1760; 3185; 3280; 4472; 5022; 5577
CjeI	!NNNNNNNNCCANNNNNNGT	6	1119; 1284; 3450; 4890; 4990; 5068
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	4	1318; 1983; 4924; 5102
CjePI	!NNNNNNNGANNNNNNNTGG	3	257; 4438; 5037
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	3	290; 4471; 5070
CjePI	!NNNNNNCCANNNNNNTC	4	1285; 1950; 4891; 5069
Clal	AT!CGAT	1	3507
CpoI	CG!GWCCG	1	4183
CseI	GACGCNNNNN!	4	526; 1195; 4377; 4456
CseI	!NNNNNNNNNGCGTC	3	3000; 4895; 5473
CsiI	A!CCWGGT	2	1664; 3256
CspI	CG!GWCCG	1	4183
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 837; 1254; 1320; 1734; 2271; 3972
Csp45I	TT!CGAA	1	4349
CspAI	A!CCGGT	1	600
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	5	665; 785; 1740; 2947; 4556
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	26	301; 361; 612; 648; 666; 903; 1101; 1335; 1612; 1861; 2007; 2205; 2251; 3094; 3234; 3306; 3397; 3538; 3883; 4069; 4100; 4126; 4482; 4866; 5586; 5637
CviJI	RG!CY	117	42; 84; 93; 277; 566; 686; 723; 785; 872; 884; 890; 950; 1013; 1047; 1062; 1079; 1105; 1127; 1162; 1179; 1251; 1270; 1280; 1292; 1333; 1341; 1367; 1376; 1385; 1412; 1421; 1433; 1451; 1523; 1602; 1741; 1764; 1816; 1837; 1925; 1945; 2047; 2052; 2074; 2131; 2152; 2158; 2164; 2211; 2235; 2277; 2336; 2446; 2613; 2633; 2775; 2856; 2870; 2884; 3165; 3206; 3278; 3401; 3430; 3436; 3445; 3453; 3476; 3488; 3494; 3575; 3592; 3600; 3627; 3652; 3736; 3745; 3749; 3773; 3811; 3887; 3904; 3923; 3986; 4030; 4040; 4057; 4140; 4167; 4171; 4208; 4231; 4247; 4427; 4454; 4515; 4637; 4676; 4733; 4740; 4747; 4766; 4777; 5028; 5057; 5100; 5111; 5176; 5255; 5280; 5285; 5331; 5421; 5519; 5545; 5563; 5574
CviKI-1	RG!CY	117	42; 84; 93; 277; 566; 686; 723; 785; 872; 884; 890; 950; 1013; 1047; 1062; 1079; 1105; 1127; 1162; 1179; 1251; 1270; 1280; 1292; 1333; 1341; 1367; 1376; 1385; 1412; 1421; 1433; 1451; 1523; 1602; 1741; 1764; 1816; 1837; 1925; 1945; 2047; 2052; 2074; 2131; 2152; 2158; 2164; 2211; 2235; 2277; 2336; 2446; 2613; 2633; 2775; 2856; 2870; 2884; 3165; 3206; 3278; 3401; 3430; 3436; 3445; 3453; 3476; 3488; 3494; 3575; 3592; 3600; 3627; 3652; 3736; 3745; 3749; 3773; 3811; 3887; 3904; 3923; 3986; 4030; 4040; 4057; 4140; 4167; 4171; 4208; 4231; 4247; 4427; 4454; 4515; 4637; 4676; 4733; 4740; 4747; 4766; 4777; 5028; 5057; 5100; 5111; 5176; 5255; 5280; 5285; 5331; 5421; 5519; 5545; 5563; 5574
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 837; 1254; 1320; 1734; 2271; 3972
DdeI	C!TNAG	9	1817; 2154; 2298; 3147; 3449; 4330; 4779; 4902; 5311

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DinI	GGC!GCC	2	768; 3668
DpnI	GA!TC	26	587; 637; 700; 1216; 1798; 1975; 2032; 2304; 2313; 2326; 3506; 3510; 3529; 3840; 3918; 3999; 4008; 4086; 4462; 4478; 4837; 4849; 4927; 4935; 4946; 5021
DpnII	!GATC	26	585; 635; 698; 1214; 1796; 1973; 2030; 2302; 2311; 2324; 3504; 3508; 3527; 3838; 3916; 3997; 4006; 4084; 4460; 4476; 4835; 4847; 4925; 4933; 4944; 5019
DraI	TTT!AAA	3	2369; 4811; 4830
DraII	RG!GNCCY	1	4765
DraIII	CACNNN!GTG	4	1197; 1266; 2115; 2783
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	4	266; 860; 1685; 5147
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	2738; 3694; 5483
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	1	812
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2738; 3694; 5483
EaeI	Y!GGCCR	9	684; 1125; 1374; 1923; 1943; 3573; 3747; 4138; 4165
EagI	C!GGCCG	2	1374; 3573
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	6	1503; 1690; 1945; 3134; 4011; 4221
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	6	1503; 1690; 1945; 3134; 4011; 4221
EciI	GGCGGANNNNNNNNNNNN!	5	1460; 3167; 4196; 5383; 5529
EciI	!NNNNNNNNNTCCGCC	4	496; 3338; 3359; 3380
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	2	1374; 3573
Eco24I	GRGCY!C	4	1049; 2858; 4032; 4742
Eco31I	GGTCTCN!	1	1860
Eco31I	!NNNNNGAGACC	2	2240; 4656
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	8	1200; 1301; 1668; 1791; 1879; 1955; 4183; 4628
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1374; 3573
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	1057; 3813; 4245
Eco57I	!NNNNNNNNNNNNNCTTCAG	2	765; 5043
Eco72I	CAC!GTG	1	1068
Eco81I	CC!TNAGG	2	3147; 4779
Eco88I	C!YCGRG	6	621; 841; 877; 1328; 1831; 1842
Eco91I	G!GTNACC	2	1390; 1653
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 2285; 3396; 3489; 4099; 4504
Eco147I	AGG!CCT	1	3488
EcoHI	!CCSGG	10	620; 621; 821; 1541; 1809; 2062; 3669; 3829; 4442; 5206
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	6	973; 1057; 1135; 3813; 4245; 4507
Eco57MI	!NNNNNNNNNNNNNCTYCAG	3	765; 4450; 5043
EcoNI	CCTNN!NNNAGG	1	637
Eco065I	G!GTNACC	2	1390; 1653
Eco0109I	RG!GNCCY	1	4765
EcoRI	G!AATC	0	
EcoRII	!CCWGG	19	88; 281; 950; 1217; 1292; 1341; 1664; 1671; 1741; 1778; 3201; 3256; 3273; 4052; 4631; 4734; 5424; 5437; 5558
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 2285; 3396; 3489; 4099; 4504
EcoT22I	ATGCA!T	3	3239; 3311; 5642
EcoT38I	GRGCY!C	4	1049; 2858; 4032; 4742
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	2	768; 3668
EheI	GGC!GCC	2	768; 3668
ErhI	C!CWWGG	6	360; 2285; 3396; 3489; 4099; 4504
EsaBC3I	TC!GA	21	702; 912; 1212; 1330; 1441; 1633; 1706; 1905; 1977; 1987; 2817; 3508; 3781; 3937; 3961; 3997; 4159; 4350; 4395; 4650; 5488
Esp3I	CGTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	26	304; 364; 615; 651; 669; 906; 1104; 1338; 1615; 1864; 2010; 2208; 2254; 3097; 3237; 3309; 3400; 3541; 3886; 4072; 4103; 4129; 4485; 4869; 5589; 5640
Fail	YA!TR	66	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 649; 667; 904; 1102; 1336; 1613; 1688; 1862; 1898; 2008; 2206; 2238; 2240; 2252; 2329; 2339; 2405; 2450; 2655; 3083; 3095; 3226; 3235; 3298; 3307; 3331; 3398; 3422; 3539; 3603; 3884; 3909; 4070; 4101; 4127; 4199; 4415; 4483; 4561; 4613; 4774; 4791; 4793; 4795; 4867; 5145; 5334; 5450; 5523; 5587; 5638
FalI	AAGNNNNCTTNNNNNNNNNN!	2	888; 4007
FalI	!NNNNNNNAAGNNNNCTT	2	856; 3975
FaqI	GGGACNNNNNNNN!	6	175; 326; 494; 3818; 4350; 4459
FaqI	!NNNNNNNNNNNGTCCC	6	1337; 1654; 3183; 3255; 3319; 4614
FatI	!CATG	26	300; 360; 611; 647; 665; 902; 1100; 1334; 1611; 1860; 2006; 2204; 2250; 3093; 3233; 3305; 3396; 3537; 3882; 4068; 4099; 4125; 4481; 4865; 5585; 5636
FauI	CCCGCNNNN!	9	93; 119; 286; 1279; 2989; 3344; 3365; 4561; 4693
FauI	!NNNNNGCGGG	6	1420; 2920; 3790; 4327; 4465; 4612
FauNDI	CA!TATG	2	234; 2238
FbaI	T!GATCA	2	635; 2324
FblI	GT!MKAC	0	
FmuI	GGNC!C	20	86; 279; 1015; 1107; 1203; 1272; 1304; 1434; 1671; 1794; 1882; 1958; 2049; 2076; 2777; 4186; 4631; 4677; 4735; 4768
Fnu4HI	GC!NGC	44	939; 1063; 1111; 1122; 1125; 1177; 1180; 1314; 1374; 1485; 1488; 1491; 1603; 1769; 1772; 1838; 2212; 2444; 2963; 2985; 2999; 3437; 3576; 3628; 3639; 3729; 3734; 3771; 3812; 3899; 3905; 4141; 4237; 4278; 4292; 4406; 4745; 4760; 4971; 5177; 5180; 5245; 5388; 5543
FokI	GGATGNNNNNNNN!	7	1897; 1993; 2038; 3534; 3991; 4016; 4470
FokI	!NNNNNNNNNNNNCATCC	4	778; 835; 919; 3340
FriOI	GRGCY!C	4	1049; 2858; 4032; 4742
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3769
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	10	592; 1765; 1891; 2315; 2516; 2934; 3490; 4505; 4839; 5092
FspEI	CCNNNNNNNNNN!	192	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 633; 700; 737; 751; 768; 783; 808; 835; 853; 867; 889; 915; 945; 964; 985; 1008; 1027; 1047; 1061; 1093; 1119; 1141; 1164; 1196; 1216; 1231; 1278; 1294; 1317; 1347; 1367; 1390; 1408; 1426; 1447; 1540; 1555; 1588; 1616; 1671; 1685; 1750; 1764; 1792; 1807; 1823; 1843; 1863; 1895; 1926; 1945; 1959; 1982; 2005; 2061; 2076; 2097; 2136; 2160; 2178; 2225; 2241; 2263; 2291; 2319; 2350; 2389; 2403; 2544; 2639; 2663; 2686; 2709; 2727; 2749; 2770; 2789; 2808; 2837; 2858; 2872; 2898; 2986; 3012; 3061; 3102; 3120; 3159; 3175; 3213; 3270; 3285; 3342; 3362; 3376; 3393; 3407; 3444; 3459; 3502; 3585; 3652; 3683; 3703; 3718; 3763; 3777; 3843; 3857; 3876; 3892; 3933; 3953; 4000; 4050; 4066; 4086; 4111; 4131; 4154; 4181; 4199; 4225; 4265; 4291; 4315; 4371; 4385; 4413; 4456; 4477; 4512; 4556; 4644; 4668; 4690; 4710; 4726; 4747; 4761; 4780; 4864; 4884; 4912; 4927; 4961; 5003; 5030; 5045; 5090; 5114; 5128; 5150; 5176; 5196; 5220; 5246; 5294; 5313; 5332; 5358; 5393; 5438; 5468; 5482; 5533; 5547; 5572; 5588; 5609; 5638

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	!NNNNNNNNNNNNNNNNNGG	167	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 607; 625; 643; 668; 688; 715; 745; 800; 829; 865; 898; 937; 973; 995; 1026; 1061; 1087; 1106; 1144; 1183; 1204; 1228; 1252; 1279; 1298; 1328; 1346; 1364; 1382; 1400; 1421; 1442; 1460; 1478; 1496; 1517; 1535; 1553; 1579; 1600; 1619; 1651; 1673; 1696; 1728; 1765; 1795; 1817; 1837; 1862; 1907; 1927; 1963; 2005; 2029; 2049; 2087; 2113; 2146; 2182; 2200; 2242; 2272; 2294; 2338; 2438; 2507; 2615; 2664; 2686; 2714; 2750; 2795; 2824; 2860; 2879; 2907; 2927; 2990; 3013; 3121; 3153; 3171; 3200; 3243; 3272; 3383; 3412; 3455; 3476; 3504; 3537; 3557; 3582; 3609; 3634; 3656; 3684; 3710; 3731; 3782; 3803; 3821; 3869; 3905; 3961; 3986; 4010; 4039; 4062; 4086; 4112; 4134; 4153; 4178; 4218; 4254; 4319; 4404; 4428; 4457; 4491; 4512; 4532; 4577; 4604; 4623; 4656; 4708; 4739; 4766; 4818; 4916; 4987; 5032; 5093; 5158; 5192; 5218; 5236; 5272; 5342; 5365; 5387; 5411; 5444; 5492; 5527; 5545; 5602
Fsp4HI	GC!NGC	44	939; 1063; 1111; 1122; 1125; 1177; 1180; 1314; 1374; 1485; 1488; 1491; 1603; 1769; 1772; 1838; 2212; 2444; 2963; 2985; 2999; 3437; 3576; 3628; 3639; 3729; 3734; 3771; 3812; 3899; 3905; 4141; 4237; 4278; 4292; 4406; 4745; 4760; 4971; 5177; 5180; 5245; 5388; 5543
GdiII	C!GGCCR	4	684; 1125; 1374; 3573
GdiII	Y!GGCCG	5	1374; 1923; 3573; 4138; 4165
GlaI	GC!GC	26	596; 652; 768; 898; 982; 1072; 2932; 2940; 2966; 2988; 2997; 3010; 3041; 3660; 3668; 3732; 3769; 4035; 4295; 4471; 4557; 4960; 5069; 5243; 5343; 5410
GluI	GC!NGC	44	939; 1063; 1111; 1122; 1125; 1177; 1180; 1314; 1374; 1485; 1488; 1491; 1603; 1769; 1772; 1838; 2212; 2444; 2963; 2985; 2999; 3437; 3576; 3628; 3639; 3729; 3734; 3771; 3812; 3899; 3905; 4141; 4237; 4278; 4292; 4406; 4745; 4760; 4971; 5177; 5180; 5245; 5388; 5543
GsaI	CCCAG!C	6	1052; 1292; 2052; 3214; 3286; 5285
GsaI	GCTGG!G	2	894; 4175
GsuI	CTGGAGNNNNNNNNNNNNNN!	3	973; 1135; 4507
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	4450
HaeI	WGG!CCW	9	1162; 1945; 2131; 2277; 3488; 3749; 5111; 5563; 5574
HaeII	RGCGC!Y	6	598; 770; 2934; 2942; 3670; 5345
HaeIII	GG!CC	36	84; 277; 686; 1013; 1079; 1105; 1127; 1162; 1270; 1376; 1412; 1433; 1925; 1945; 2047; 2074; 2131; 2164; 2277; 2633; 2775; 3430; 3436; 3445; 3488; 3575; 3749; 4140; 4167; 4676; 4733; 4766; 5111; 5545; 5563; 5574
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2342; 3863
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2308; 3829
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2341; 3862
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2310; 3831
HapII	C!CGG	25	601; 622; 822; 1304; 1542; 1810; 1882; 2064; 2309; 2885; 3572; 3649; 3671; 3699; 3830; 3920; 3987; 4168; 4443; 4451; 4543; 5017; 5207; 5233; 5380
HgaI	GACGCNNNNN!	4	526; 1195; 4377; 4456
HgaI	!NNNNNNNNNGCGTC	3	3000; 4895; 5473
HhaI	GCG!C	26	597; 653; 769; 899; 983; 1073; 2933; 2941; 2967; 2989; 2998; 3011; 3042; 3661; 3669; 3733; 3770; 4036; 4296; 4472; 4558; 4961; 5070; 5244; 5344; 5411
HinI	GR!CGYC	9	122; 175; 258; 444; 767; 1187; 3667; 4369; 4448
Hin1II	CATG!	26	304; 364; 615; 651; 669; 906; 1104; 1338; 1615; 1864; 2010; 2208; 2254; 3097; 3237; 3309; 3400; 3541; 3886; 4072; 4103; 4129; 4485; 4869; 5589; 5640
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	2341; 3862
Hin4I	!NNNNNNNNGABNNNNNRTC	3	2309; 3830; 3860
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	2341; 3862; 3892
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	2309; 3830
Hin6I	G!CGC	26	595; 651; 767; 897; 981; 1071; 2931; 2939; 2965; 2987; 2996; 3009; 3040; 3659; 3667; 3731; 3768; 4034; 4294; 4470; 4556; 4959; 5068; 5242; 5342; 5409
HinP1I	G!CGC	26	595; 651; 767; 897; 981; 1071; 2931; 2939; 2965; 2987; 2996; 3009; 3040; 3659; 3667; 3731; 3768; 4034; 4294; 4470; 4556; 4959; 5068; 5242; 5342; 5409
HincII	GTY!RAC	2	2225; 2430
HindII	GTY!RAC	2	2225; 2430

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HindIII	A!AGCTT	0	
HinfI	G!ANTC	16	410; 1326; 1346; 1678; 1700; 2143; 2710; 2732; 3142; 4152; 4286; 4338; 4396; 4433; 5215; 5611
HpaI	GTT!AAC	1	2430
HpaII	C!CGG	25	601; 622; 822; 1304; 1542; 1810; 1882; 2064; 2309; 2885; 3572; 3649; 3671; 3699; 3830; 3920; 3987; 4168; 4443; 4451; 4543; 5017; 5207; 5233; 5380
HphI	GGTGANNNNNNNN!	6	376; 1257; 1402; 2301; 4738; 4854
HphI	!NNNNNNNTCACC	4	822; 1647; 2784; 3845
Hpy8I	GTN!NAC	18	201; 539; 577; 663; 681; 810; 830; 1200; 1320; 1465; 1791; 2225; 2271; 2430; 2714; 2731; 2786; 5273
Hpy99I	CGWCG!	9	1078; 1189; 3757; 3785; 4079; 4094; 4371; 4756; 5489
Hpy166II	GTN!NAC	18	201; 539; 577; 663; 681; 810; 830; 1200; 1320; 1465; 1791; 2225; 2271; 2430; 2714; 2731; 2786; 5273
Hpy188I	TCN!GA	14	585; 1713; 1869; 2178; 2841; 3450; 3634; 3978; 4331; 4432; 4911; 5045; 5398; 5476
Hpy188III	TC!NNGA	27	696; 795; 972; 1146; 1212; 1704; 1882; 2315; 3094; 3146; 3459; 3512; 3685; 4001; 4010; 4093; 4149; 4193; 4283; 4316; 4385; 4866; 4940; 5023; 5121; 5219; 5353
HpyAV	CCTTCNNNNNN!	8	702; 789; 918; 1761; 2100; 4312; 4419; 5098
HpyAV	!NNNNNGAAGG	11	651; 753; 1161; 1708; 2900; 3795; 4524; 4540; 4723; 5040; 5350
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 756; 1396; 1854; 2758; 4047; 4163; 4271; 4594; 5085; 5555; 5626
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 677; 977; 1067; 2727; 2739; 2782; 2892; 3783; 3970; 4751; 4884
HpyCH4V	TG!CA	26	663; 810; 929; 1023; 1065; 1176; 1648; 1900; 2138; 2193; 2416; 2443; 2511; 3228; 3237; 3300; 3309; 3424; 3500; 3559; 3718; 3893; 3907; 4977; 5273; 5640
HpyF3I	C!TNAG	9	1817; 2154; 2298; 3147; 3449; 4330; 4779; 4902; 5311
HpyF10VI	GCNNNNN!NNGC	42	90; 212; 244; 283; 376; 400; 896; 935; 947; 989; 1068; 1229; 1257; 1313; 1373; 1382; 1418; 1490; 1608; 2044; 2080; 2170; 2217; 2894; 2924; 2951; 2993; 3234; 3306; 3357; 3436; 3658; 3742; 3765; 3904; 4027; 4110; 4377; 4564; 4768; 4967; 5539
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 767; 1187; 3667; 4369; 4448
Hsp92II	CATG!	26	304; 364; 615; 651; 669; 906; 1104; 1338; 1615; 1864; 2010; 2208; 2254; 3097; 3237; 3309; 3400; 3541; 3886; 4072; 4103; 4129; 4485; 4869; 5589; 5640
HspAI	G!CGC	26	595; 651; 767; 897; 981; 1071; 2931; 2939; 2965; 2987; 2996; 3009; 3040; 3659; 3667; 3731; 3768; 4034; 4294; 4470; 4556; 4959; 5068; 5242; 5342; 5409
KasI	G!GCGCC	2	766; 3666
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1881
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	2	635; 2324
KspAI	GTT!AAC	1	2430
Kzo9I	!GATC	26	585; 635; 698; 1214; 1796; 1973; 2030; 2302; 2311; 2324; 3504; 3508; 3527; 3838; 3916; 3997; 4006; 4084; 4460; 4476; 4835; 4847; 4925; 4933; 4944; 5019
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	4011; 4221
LpnI	RG!GCGY	6	596; 768; 2932; 2940; 3668; 5343
LpnPI	CCDGNNNNNNNNNN!	76	102; 295; 614; 635; 751; 787; 808; 835; 964; 985; 1048; 1062; 1093; 1120; 1147; 1231; 1297; 1317; 1355; 1555; 1588; 1678; 1755; 1792; 1807; 1823; 1895; 1982; 2062; 2077; 2107; 2322; 2404; 2709; 2898; 3121; 3159; 3175; 3215; 3270; 3287; 3387; 3472; 3585; 3662; 3684; 3707; 3843; 3857; 3876; 3933; 4000; 4050; 4066; 4123; 4181; 4390; 4456; 4480; 4556; 4645; 4748; 4781; 5012; 5030; 5176; 5196; 5220; 5246; 5295; 5393; 5438; 5468; 5547; 5572; 5609
LpnPI	!NNNNNNNNNNNNNNCHGG	67	75; 268; 552; 586; 607; 807; 876; 937; 1069; 1099; 1204; 1279; 1328; 1517; 1636; 1658; 1728; 1765; 1795; 1867; 1907; 2049; 2182; 2200; 2259; 2294; 2750; 2870; 2927; 2990; 3188; 3200; 3260; 3272; 3504; 3549; 3592; 3634; 3656; 3684; 3731; 3793; 3815; 3905; 3972; 3995; 4039; 4134; 4153; 4178; 4327; 4428; 4471; 4528; 4618; 4721; 4748; 4766; 5002; 5039; 5192; 5218; 5358; 5376; 5411; 5492; 5545

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Lsp1109I	GCAGCNNNNNNNN!	9	950; 1188; 1780; 2455; 3740; 3782; 4303; 4756; 5256
Lsp1109I	!NNNNNNNNNNNGCTGC	10	1049; 1097; 1166; 1824; 2949; 3614; 3798; 3891; 4957; 5163
LweI	GCATCNNNNN!	9	932; 1217; 1614; 2483; 3246; 3318; 3966; 4030; 4305
LweI	!NNNNNNNNNGATGC	9	357; 1010; 1635; 1971; 2180; 3625; 3880; 4096; 5488
MabI	A!CCWGGT	2	1664; 3256
MaeI	C!TAG	10	592; 1765; 1891; 2315; 2516; 2934; 3490; 4505; 4839; 5092
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 677; 977; 1067; 2727; 2739; 2782; 2892; 3783; 3970; 4751; 4884
MaeIII	!GTNAC	15	61; 148; 497; 1390; 1653; 1927; 2455; 2956; 2968; 3787; 4093; 4783; 5049; 5165; 5228
MaiI	GA!TC	26	587; 637; 700; 1216; 1798; 1975; 2032; 2304; 2313; 2326; 3506; 3510; 3529; 3840; 3918; 3999; 4008; 4086; 4462; 4478; 4837; 4849; 4927; 4935; 4946; 5021
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	5	144; 197; 466; 540; 2166
MaqI	!NNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	4	1757; 1919; 3091; 4280
MbiI	GAG!CGG	2	2927; 4334
MboI	!GATC	26	585; 635; 698; 1214; 1796; 1973; 2030; 2302; 2311; 2324; 3504; 3508; 3527; 3838; 3916; 3997; 4006; 4084; 4460; 4476; 4835; 4847; 4925; 4933; 4944; 5019
MboII	GAAGANNNNNNNN!	12	1038; 1520; 1596; 1654; 1707; 1962; 2304; 2923; 3151; 4028; 4238; 4857
MboII	!NNNNNNNTCTTC	6	960; 1614; 4318; 4485; 4685; 4928
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2417
MfiI	R!GATCY	12	585; 1214; 1796; 2302; 2311; 3838; 4084; 4476; 4835; 4847; 4933; 4944
MhII	GDGCH!C	15	665; 736; 812; 994; 1049; 1262; 1849; 2858; 3613; 3706; 3780; 3970; 4032; 4742; 5275
MisI	TGG!CCA	2	1945; 3749
MluI	A!CGCGT	1	2553
MluNI	TGG!CCA	2	1945; 3749
MlyI	GAGTCNNNNN!	3	1709; 2719; 3151
MlyI	!NNNNNGACTC	6	404; 1320; 2137; 2726; 4332; 5209
Mly113I	GG!CGCC	2	767; 3667
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	1	2760
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	5192; 5376
MnII	CCTCNNNNNNN!	12	1840; 1851; 1942; 2163; 2184; 2386; 3450; 4268; 4474; 4788; 5158; 5482
MnII	!NNNNNGAGG	39	541; 636; 663; 696; 723; 756; 837; 873; 906; 948; 1110; 1372; 1402; 1429; 1441; 1462; 1474; 1492; 1504; 1552; 1608; 1627; 1946; 1971; 2098; 2154; 2293; 2346; 2811; 3142; 3420; 3463; 3478; 3518; 3582; 3718; 4075; 4505; 5408
Mph1103I	ATGCA!T	3	3239; 3311; 5642
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1881
MroNI	G!CCGGC	3	2884; 4167; 4450
MroXI	GAANN!NNTTC	1	1750
MscI	TGG!CCA	2	1945; 3749
MseI	T!TAA	18	7; 629; 1937; 2126; 2368; 2429; 2550; 2571; 2582; 2594; 2605; 2622; 2720; 2991; 4810; 4824; 4829; 4881
MslI	CAYNN!NNRTG	9	365; 652; 805; 1099; 1532; 1610; 1969; 2017; 4104
MspI	C!CGG	25	601; 622; 822; 1304; 1542; 1810; 1882; 2064; 2309; 2885; 3572; 3649; 3671; 3699; 3830; 3920; 3987; 4168; 4443; 4451; 4543; 5017; 5207; 5233; 5380
Msp20I	TGG!CCA	2	1945; 3749
MspA1I	CMG!CKG	7	890; 1179; 1313; 3165; 3773; 5002; 5247
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	283	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; 646; 660; 676; 690; 708; 726; 741; 758; 786; 807; 834; 853; 866; 880; 903; 924; 949; 963; 984; 999; 1018; 1036; 1060; 1078; 1092; 1113; 1126; 1146; 1166; 1195; 1209; 1224; 1254; 1269; 1283; 1296; 1316; 1329; 1342; 1355; 1369; 1389; 1408; 1425; 1440; 1453; 1474; 1544; 1561; 1587; 1616; 1645; 1663; 1677; 1716; 1737; 1750; 1772; 1791; 1806; 1822; 1843; 1856; 1871; 1894; 1917; 1934; 1953; 1970; 1989; 2004; 2017; 2051; 2065; 2088; 2106; 2144; 2160; 2178; 2209; 2225; 2242; 2263; 2286; 2310; 2327; 2340; 2355; 2374; 2391; 2404; 2445; 2459; 2472; 2490; 2528; 2543; 2561; 2602; 2626; 2646; 2664; 2685; 2708; 2740; 2755; 2777; 2795; 2808; 2829; 2846; 2859; 2872; 2888; 2901; 2931; 2946; 2971; 2989; 3002; 3017; 3041; 3055; 3079; 3104; 3120; 3158; 3174; 3213; 3227; 3241; 3269; 3285; 3299; 3313; 3342; 3355; 3376; 3385; 3407; 3437; 3453; 3471; 3501; 3524; 3548; 3572; 3591; 3619; 3645; 3661; 3674; 3697; 3711; 3731; 3744; 3758; 3777; 3791; 3804; 3820; 3835; 3848; 3864; 3879; 3895; 3920; 3939; 3955; 3968; 3981; 3999; 4013; 4027; 4043; 4065; 4081; 4100; 4122; 4138; 4161; 4180; 4194; 4210; 4224; 4244; 4260; 4273; 4295; 4328; 4342; 4362; 4375; 4389; 4443; 4456; 4479; 4492; 4511; 4528; 4555; 4591; 4624; 4643; 4668; 4689; 4716; 4729; 4746; 4760; 4775; 4791; 4851; 4876; 4892; 4914; 4927; 4941; 4972; 4986; 5011; 5029; 5044; 5057; 5076; 5089; 5104; 5133; 5152; 5170; 5195; 5210; 5229; 5245; 5264; 5282; 5298; 5312; 5331; 5358; 5381; 5403; 5422; 5437; 5450; 5467; 5487; 5514; 5527; 5546; 5571; 5594; 5608; 5621; 5638
MspJI	!NNNNNNNNNNNNYNG	236	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; 619; 636; 664; 682; 700; 724; 742; 760; 781; 800; 820; 839; 863; 889; 912; 933; 958; 1001; 1021; 1042; 1066; 1087; 1120; 1144; 1169; 1198; 1228; 1247; 1270; 1289; 1309; 1328; 1345; 1364; 1382; 1400; 1421; 1440; 1517; 1535; 1561; 1594; 1614; 1637; 1658; 1690; 1717; 1740; 1765; 1796; 1817; 1837; 1863; 1883; 1907; 1927; 1955; 1993; 2014; 2035; 2056; 2080; 2099; 2141; 2162; 2183; 2201; 2218; 2237; 2260; 2285; 2319; 2348; 2377; 2419; 2502; 2540; 2564; 2587; 2616; 2660; 2682; 2714; 2750; 2767; 2788; 2825; 2845; 2862; 2879; 2914; 2932; 2950; 2967; 2991; 3013; 3040; 3068; 3094; 3132; 3153; 3170; 3188; 3211; 3232; 3260; 3283; 3304; 3322; 3343; 3360; 3383; 3407; 3427; 3445; 3467; 3498; 3520; 3546; 3565; 3582; 3610; 3629; 3648; 3666; 3684; 3705; 3727; 3751; 3784; 3804; 3822; 3843; 3869; 3896; 3913; 3930; 3947; 3973; 3995; 4017; 4035; 4055; 4074; 4096; 4134; 4154; 4178; 4198; 4218; 4245; 4269; 4302; 4321; 4349; 4371; 4400; 4428; 4453; 4472; 4491; 4512; 4529; 4546; 4577; 4604; 4624; 4647; 4667; 4704; 4721; 4740; 4766; 4786; 4825; 4852; 4871; 4889; 4926; 4944; 4985; 5003; 5029; 5046; 5078; 5107; 5135; 5156; 5179; 5198; 5219; 5237; 5254; 5272; 5298; 5319; 5339; 5359; 5377; 5398; 5424; 5441; 5460; 5479; 5508; 5527; 5545; 5564; 5582; 5600; 5623
MspR9I	CC!NGG	29	90; 283; 622; 623; 823; 952; 1219; 1294; 1343; 1543; 1666; 1673; 1743; 1780; 1811; 2064; 3203; 3258; 3275; 3671; 3831; 4054; 4444; 4633; 4736; 5208; 5426; 5439; 5560
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2417
MvaI	CC!WGG	19	90; 283; 952; 1219; 1294; 1343; 1666; 1673; 1743; 1780; 3203; 3258; 3275; 4054; 4633; 4736; 5426; 5439; 5560
Mva1269I	GAATGCN!	2	2085; 2418
Mva1269I	G!CATTC	1	2511
MvnI	CG!CG	17	60; 653; 1073; 2555; 2591; 2967; 2987; 3011; 3042; 3733; 4034; 4472; 4556; 4619; 4688; 4961; 5542
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	42	90; 212; 244; 283; 376; 400; 896; 935; 947; 989; 1068; 1229; 1257; 1313; 1373; 1382; 1418; 1490; 1608; 2044; 2080; 2170; 2217; 2894; 2924; 2951; 2993; 3234; 3306; 3357; 3436; 3658; 3742; 3765; 3904; 4027; 4110; 4377; 4564; 4768; 4967; 5539
NaeI	GCC!GGC	3	2886; 4169; 4452
NarI	GG!CGCC	2	767; 3667
NciI	CC!SGG	10	622; 623; 823; 1543; 1811; 2064; 3671; 3831; 4444; 5208
NcoI	C!CATGG	3	360; 3396; 4099
NdeI	CA!TATG	2	234; 2238

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeII	!GATC	26	585; 635; 698; 1214; 1796; 1973; 2030; 2302; 2311; 2324; 3504; 3508; 3527; 3838; 3916; 3997; 4006; 4084; 4460; 4476; 4835; 4847; 4925; 4933; 4944; 5019
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	2	280; 1746
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	2	244; 1710
NgoMIV	G!CCGGC	3	2884; 4167; 4450
NheI	G!CTAGC	2	591; 1764
NlaIII	CATG!	26	304; 364; 615; 651; 669; 906; 1104; 1338; 1615; 1864; 2010; 2208; 2254; 3097; 3237; 3309; 3400; 3541; 3886; 4072; 4103; 4129; 4485; 4869; 5589; 5640
NlaIV	GGN!NCC	25	467; 735; 768; 993; 1014; 1046; 1432; 1601; 1670; 1747; 1848; 2304; 2822; 2843; 2855; 3046; 3207; 3279; 3668; 3703; 4551; 4630; 4675; 5518; 5557
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2499; 2814; 4406
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 1000; 1573; 5478
Nli3877I	CYCGR!G	6	625; 845; 881; 1332; 1835; 1846
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	5	1402; 1438; 2184; 3456; 3892
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	3421
NmeDI	RCCGGYNNNNNN!	5	612; 2896; 3998; 4179; 4462
NmeDI	!NNNNNNNNNNNNRCCGGY	5	587; 2871; 3973; 4154; 4437
NmuCI	!GTSAC	6	1390; 1653; 1927; 2956; 3787; 4093
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3769
NsiI	ATGCA!T	3	3239; 3311; 5642
NspI	RCATG!Y	6	651; 2010; 3237; 3309; 4072; 5589
NspV	TT!CGAA	1	4349
OliI	CACNN!NNGTG	1	805
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 839; 1256; 1322; 1736; 2273; 3974
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	2010; 3237; 3309; 4072
PaeR7I	C!TCGAG	1	1328
PagI	T!CATGA	2	3093; 4865
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1672; 4632; 4735
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	3488
PciI	A!CATGT	1	5585
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	4011; 4221
PcsI	WCGNNNN!NNNCGW	9	1193; 1262; 1410; 3961; 4038; 4281; 4355; 4748; 5266
PctI	GAATGCN!	2	2085; 2418
PctI	G!CATTG	1	2511
PdiI	GCC!GGC	3	2886; 4169; 4452
PdmI	GAANN!NNTTC	1	1750
PfeI	G!AWTC	7	1346; 1678; 4152; 4286; 4396; 4433; 5611
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3785
PfIMI	CCANNNN!NTGG	2	1197; 2256
PfoI	T!CCNGGA	1	4442
PhoI	GG!CC	36	84; 277; 686; 1013; 1079; 1105; 1127; 1162; 1270; 1376; 1412; 1433; 1925; 1945; 2047; 2074; 2131; 2164; 2277; 2633; 2775; 3430; 3436; 3445; 3488; 3575; 3749; 4140; 4167; 4676; 4733; 4766; 5111; 5545; 5563; 5574
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	2	971; 4048
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	3	2019; 3613; 3868
PleI	GAGTCNNNN!	3	1708; 2718; 3150
PleI	!NNNNNGACTC	6	404; 1320; 2137; 2726; 4332; 5209
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	1068
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	1	1068

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2749
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	4879
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4911
PpiI	!NNNNNNNNGAACNNNNNNCTC	1	2717
PpsI	GAGTCNNNN!	3	1708; 2718; 3150
PpsI	!NNNNNGACTC	6	404; 1320; 2137; 2726; 4332; 5209
Ppu10I	A!TGCAT	3	3235; 3307; 5638
Ppu21I	YAC!GTR	4	340; 1068; 2783; 3971
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	5585
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2450; 2655
Psp03I	GGWC!C	8	1203; 1304; 1671; 1794; 1882; 1958; 4186; 4631
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	19	88; 281; 950; 1217; 1292; 1341; 1664; 1671; 1741; 1778; 3201; 3256; 3273; 4052; 4631; 4734; 5424; 5437; 5558
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	1	1068
PspEI	G!GTNACC	2	1390; 1653
PspGI	!CCWGG	19	88; 281; 950; 1217; 1292; 1341; 1664; 1671; 1741; 1778; 3201; 3256; 3273; 4052; 4631; 4734; 5424; 5437; 5558
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	25	467; 735; 768; 993; 1014; 1046; 1432; 1601; 1670; 1747; 1848; 2304; 2822; 2843; 2855; 3046; 3207; 3279; 3668; 3703; 4551; 4630; 4675; 5518; 5557
PspOMI	G!GGCCC	0	
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNN!	3	125; 3397; 4396
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	1	3799
PspPI	G!GNCC	20	83; 276; 1012; 1104; 1200; 1269; 1301; 1431; 1668; 1791; 1879; 1955; 2046; 2073; 2774; 4183; 4628; 4674; 4732; 4765
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	4	2173; 3220; 3292; 4798
PspPRI	!NNNNNNNNNNNNNCTGRGG	4	1659; 2284; 3133; 4328
PspXI	VC!TCGAGB	1	1328
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	4768
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	2	4768; 5176
PsuI	R!GATCY	12	585; 1214; 1796; 2302; 2311; 3838; 4084; 4476; 4835; 4847; 4933; 4944
PsyI	GACN!NNGTC	1	3785
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	4	890; 1179; 3165; 3773
RcaI	T!CATGA	2	3093; 4865
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4182
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	3	2009; 2101; 2396
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	2	869; 938
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	1	1333
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 838; 1255; 1321; 1735; 2272; 3973
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 837; 1254; 1320; 1734; 2271; 3972
RseI	CAYNN!NNRTG	9	365; 652; 805; 1099; 1532; 1610; 1969; 2017; 4104

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RsrII	CG!GWCCG	1	4183
Rsr2I	CG!GWCCG	1	4183
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	4011; 4221
SaqAI	T!TAA	18	7; 629; 1937; 2126; 2368; 2429; 2550; 2571; 2582; 2594; 2605; 2622; 2720; 2991; 4810; 4824; 4829; 4881
SatI	GC!NGC	44	939; 1063; 1111; 1122; 1125; 1177; 1180; 1314; 1374; 1485; 1488; 1491; 1603; 1769; 1772; 1838; 2212; 2444; 2963; 2985; 2999; 3437; 3576; 3628; 3639; 3729; 3734; 3771; 3812; 3899; 3905; 4141; 4237; 4278; 4292; 4406; 4745; 4760; 4971; 5177; 5180; 5245; 5388; 5543
Sau96I	G!GNCC	20	83; 276; 1012; 1104; 1200; 1269; 1301; 1431; 1668; 1791; 1879; 1955; 2046; 2073; 2774; 4183; 4628; 4674; 4732; 4765
Sau3AI	!GATC	26	585; 635; 698; 1214; 1796; 1973; 2030; 2302; 2311; 2324; 3504; 3508; 3527; 3838; 3916; 3997; 4006; 4084; 4460; 4476; 4835; 4847; 4925; 4933; 4944; 5019
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	1709; 2719; 3151
SchI	!NNNNNGACTC	6	404; 1320; 2137; 2726; 4332; 5209
SciI	CTC!GAG	1	1330
ScrFI	CC!NGG	29	90; 283; 622; 623; 823; 952; 1219; 1294; 1343; 1543; 1666; 1673; 1743; 1780; 1811; 2064; 3203; 3258; 3275; 3671; 3831; 4054; 4444; 4633; 4736; 5208; 5426; 5439; 5560
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	6	1050; 2223; 3245; 3317; 3486; 5428
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	3822; 4307
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNNRTGA	1	245
SduI	GDGCH!C	15	665; 736; 812; 994; 1049; 1262; 1849; 2858; 3613; 3706; 3780; 3970; 4032; 4742; 5275
SelI	!CGCG	17	58; 651; 1071; 2553; 2589; 2965; 2985; 3009; 3040; 3731; 4032; 4470; 4554; 4617; 4686; 4959; 5540
SetI	ASST!	78	125; 137; 178; 261; 308; 342; 447; 552; 568; 635; 662; 680; 752; 787; 874; 892; 910; 980; 1064; 1070; 1136; 1156; 1172; 1181; 1247; 1253; 1298; 1440; 1461; 1479; 1515; 1667; 1766; 1823; 1832; 1934; 2092; 2291; 2357; 2378; 2387; 2399; 2448; 2615; 2730; 2742; 2785; 2822; 2872; 2895; 3019; 3167; 3262; 3455; 3568; 3696; 3775; 3786; 3858; 3929; 3973; 4233; 4379; 4423; 4754; 4785; 4844; 4887; 5030; 5051; 5150; 5287; 5302; 5321; 5333; 5377; 5423; 5474
SexAI	A!CCWGGT	2	1664; 3256
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	9	932; 1217; 1614; 2483; 3246; 3318; 3966; 4030; 4305
SfaNI	!NNNNNNNNNGATGC	9	357; 1010; 1635; 1971; 2180; 3625; 3880; 4096; 5488
SfcI	C!TRYAG	5	885; 1275; 3002; 5129; 5320
SfiI	GGCCNNNN!NGGCC	1	3442
SfoI	GGC!GCC	2	768; 3668
Sfr274I	C!TCGAG	1	1328
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	1	4349

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	233	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 645; 660; 678; 700; 714; 732; 750; 768; 786; 807; 834; 853; 876; 889; 903; 924; 963; 984; 999; 1027; 1047; 1061; 1078; 1092; 1113; 1126; 1146; 1170; 1195; 1209; 1224; 1254; 1269; 1283; 1296; 1316; 1329; 1342; 1355; 1369; 1390; 1408; 1426; 1440; 1453; 1474; 1544; 1561; 1587; 1624; 1645; 1663; 1677; 1716; 1750; 1773; 1791; 1806; 1822; 1843; 1856; 1873; 1894; 1917; 1934; 1953; 1981; 1997; 2019; 2061; 2075; 2088; 2106; 2172; 2209; 2227; 2242; 2263; 2286; 2321; 2374; 2403; 2445; 2528; 2566; 2602; 2686; 2708; 2740; 2777; 2795; 2814; 2829; 2871; 2888; 2905; 2940; 2954; 2971; 2993; 3017; 3041; 3106; 3120; 3158; 3174; 3214; 3227; 3246; 3269; 3286; 3299; 3318; 3348; 3369; 3386; 3409; 3444; 3471; 3502; 3524; 3550; 3572; 3591; 3619; 3655; 3674; 3697; 3711; 3731; 3744; 3758; 3777; 3791; 3810; 3842; 3856; 3869; 3895; 3926; 3939; 3956; 3973; 3987; 4004; 4022; 4037; 4065; 4081; 4100; 4122; 4138; 4161; 4180; 4205; 4224; 4244; 4271; 4295; 4328; 4347; 4375; 4389; 4455; 4479; 4494; 4517; 4538; 4555; 4603; 4630; 4644; 4673; 4697; 4730; 4747; 4767; 4780; 4793; 4851; 4878; 4897; 4927; 4952; 4972; 4986; 5011; 5029; 5066; 5104; 5133; 5161; 5175; 5195; 5210; 5231; 5245; 5264; 5282; 5298; 5338; 5358; 5385; 5403; 5424; 5437; 5450; 5467; 5491; 5514; 5546; 5571; 5598; 5620
SgeI	!NNNNNNNNNNNNCNG	200	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 619; 638; 664; 682; 700; 724; 742; 760; 781; 808; 827; 850; 877; 898; 937; 958; 1001; 1021; 1042; 1066; 1087; 1120; 1144; 1169; 1198; 1228; 1247; 1270; 1290; 1309; 1328; 1364; 1382; 1400; 1421; 1448; 1518; 1535; 1561; 1598; 1619; 1637; 1658; 1690; 1724; 1747; 1765; 1796; 1817; 1837; 1868; 1891; 1908; 1927; 1955; 1993; 2035; 2062; 2080; 2146; 2183; 2201; 2237; 2260; 2295; 2348; 2377; 2419; 2502; 2540; 2576; 2660; 2682; 2714; 2751; 2769; 2788; 2845; 2862; 2879; 2914; 2932; 2952; 2972; 2991; 3015; 3080; 3132; 3188; 3220; 3243; 3260; 3292; 3322; 3343; 3360; 3383; 3418; 3445; 3476; 3498; 3524; 3546; 3565; 3593; 3629; 3648; 3671; 3692; 3710; 3727; 3751; 3784; 3816; 3843; 3869; 3900; 3930; 3947; 3973; 3996; 4017; 4039; 4059; 4079; 4096; 4135; 4154; 4179; 4198; 4218; 4245; 4269; 4302; 4321; 4349; 4371; 4429; 4453; 4472; 4491; 4512; 4529; 4577; 4604; 4624; 4647; 4671; 4704; 4721; 4741; 4767; 4825; 4852; 4871; 4901; 4926; 4946; 4985; 5003; 5040; 5078; 5107; 5135; 5156; 5184; 5205; 5238; 5256; 5312; 5332; 5359; 5377; 5398; 5424; 5441; 5465; 5488; 5520; 5545; 5572; 5594; 5623
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	5	27; 1546; 2814; 4601; 5394
SimI	!GACCC	7	106; 1031; 2060; 2225; 4095; 4663; 4911
SinI	G!GWCC	8	1200; 1301; 1668; 1791; 1879; 1955; 4183; 4628
SlaI	C!TCGAG	1	1328
SmaI	CCC!GGG	1	623
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	9	365; 652; 805; 1099; 1532; 1610; 1969; 2017; 4104
SmlI	C!TYRAG	6	1328; 2230; 4058; 4940; 5217; 5479
SmoI	C!TYRAG	6	1328; 2230; 4058; 4940; 5217; 5479
SmuI	CCCGCNNNN!	9	93; 119; 286; 1279; 2989; 3344; 3365; 4561; 4693
SmuI	!NNNNNNGCGGG	6	1420; 2920; 3790; 4327; 4465; 4612
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	2010; 3237; 3309; 4072
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	12	18; 626; 1727; 2417; 2481; 2559; 2585; 2596; 3243; 3315; 3407; 4825
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	3488

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 743; 803; 936; 1206; 1272; 1603; 1755; 1917; 2004; 2212; 2982; 2985; 2999; 3089; 3337; 3349; 3358; 3370; 3380; 3391; 3437; 3576; 3639; 4141; 4186; 4252; 4278; 4403; 4406; 4554; 4686; 4993; 5137; 5633
SsiI	G!CGG	33	370; 403; 528; 1121; 1124; 1313; 1373; 1427; 1445; 1484; 1487; 1490; 1493; 2927; 2954; 3042; 3152; 3733; 3797; 3898; 3901; 4181; 4236; 4334; 4472; 4619; 4759; 5002; 5247; 5368; 5387; 5514; 5542
SspI	AAT!ATT	2	2575; 3128
SspDI	G!GCGCC	2	766; 3666
SspD5I	GGTANNNNNNNN!	6	376; 1257; 1402; 2301; 4738; 4854
SspD5I	!NNNNNNNNTCACC	4	821; 1646; 2783; 3844
SstI	GAGCT!C	0	
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	24	92; 118; 285; 628; 848; 860; 884; 1022; 1190; 1278; 1362; 2070; 2866; 2988; 3343; 3364; 3677; 4080; 4219; 4290; 4560; 4692; 4922; 5360
Sth132I	!NNNNNNNNCGGG	26	15; 407; 470; 614; 814; 1419; 1534; 1546; 1571; 1802; 1824; 2867; 2919; 3020; 3747; 3789; 3822; 4326; 4435; 4464; 4611; 4715; 4746; 5199; 5243; 5451
Sth302II	CC!GG	25	602; 623; 823; 1305; 1543; 1811; 1883; 2065; 2310; 2886; 3573; 3650; 3672; 3700; 3831; 3921; 3988; 4169; 4444; 4452; 4544; 5018; 5208; 5234; 5381
StrI	C!TCGAG	1	1328
StsI	GGATGNNNNNNNNNN!	7	1898; 1994; 2039; 3535; 3992; 4017; 4471
StsI	!NNNNNNNNNNNNNNNCATCC	4	777; 834; 918; 3339
StuI	AGG!CCT	1	3488
StyI	C!CWGGG	6	360; 2285; 3396; 3489; 4099; 4504
StyD4I	!CCNGG	29	88; 281; 620; 621; 821; 950; 1217; 1292; 1341; 1541; 1664; 1671; 1741; 1778; 1809; 2062; 3201; 3256; 3273; 3669; 3829; 4052; 4442; 4631; 4734; 5206; 5424; 5437; 5558
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 756; 1396; 1854; 2758; 4047; 4163; 4271; 4594; 5085; 5555; 5626
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 680; 980; 1070; 2730; 2742; 2785; 2895; 3786; 3973; 4754; 4887
TaqI	T!CGA	21	701; 911; 1211; 1329; 1440; 1632; 1705; 1904; 1976; 1986; 2816; 3507; 3780; 3936; 3960; 3996; 4158; 4349; 4394; 4649; 5487
TaqII	GACCGANNNNNNNNNNN!	3	2687; 3704; 4372
TaqII	!NNNNNNNNTCGGTC	1	4616
TaqII	CACCCANNNNNNNNNNN!	2	751; 2006
TaqII	!NNNNNNNNTGGGTG	4	172; 1771; 3571; 4163
TasI	!AATT	12	18; 626; 1727; 2417; 2481; 2559; 2585; 2596; 3243; 3315; 3407; 4825
TatI	W!GTACW	6	217; 297; 330; 381; 1319; 2270
TauI	GCSG!C	24	1124; 1127; 1316; 1376; 1487; 1490; 1493; 1605; 2214; 2987; 3001; 3439; 3578; 3641; 3736; 3901; 3904; 4143; 4239; 4280; 4408; 4762; 5390; 5545
TfiI	G!AWTC	7	1346; 1678; 4152; 4286; 4396; 4433; 5611
TliI	C!TCGAG	1	1328
Tru1I	T!TAA	18	7; 629; 1937; 2126; 2368; 2429; 2550; 2571; 2582; 2594; 2605; 2622; 2720; 2991; 4810; 4824; 4829; 4881
Tru9I	T!TAA	18	7; 629; 1937; 2126; 2368; 2429; 2550; 2571; 2582; 2594; 2605; 2622; 2720; 2991; 4810; 4824; 4829; 4881
TscAI	CASTGNN!	6	1655; 2513; 3796; 4906; 5177; 5190
TseI	G!CWGC	21	938; 1062; 1110; 1176; 1179; 1768; 1771; 1837; 2443; 2962; 3627; 3728; 3770; 3811; 3904; 4291; 4744; 4970; 5176; 5179; 5244
TsoI	TARCCANNNNNNNNNNN!	2	2639; 2986
TsoI	!NNNNNNNNTGGYTA	2	2444; 4196
Tsp45I	!GTSAC	6	1390; 1653; 1927; 2956; 3787; 4093
Tsp509I	!AATT	12	18; 626; 1727; 2417; 2481; 2559; 2585; 2596; 3243; 3315; 3407; 4825
TspDTI	ATGAANNNNNNNNNNN!	7	628; 1351; 2221; 2255; 2425; 3726; 4430
TspDTI	!NNNNNNNNTTCAT	5	26; 1614; 4144; 4600; 4807

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspEI	!AATT	12	18; 626; 1727; 2417; 2481; 2559; 2585; 2596; 3243; 3315; 3407; 4825
TspGWI	ACGGANNNNNNNNNNN!	1	4542
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	621
TspRI	CASTGNN!	6	1655; 2513; 3796; 4906; 5177; 5190
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	1	2099
TstI	GGANNNNNGTGNNNNNNNNNNNN!	1	2131
TstI	!NNNNNNNCCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3785
Tth111II	CAARCANNNNNNNNNN!	2	880; 4994
Tth111II	!NNNNNNNNNTGYTTG	4	2158; 4102; 4962; 5001
UnbI	!GGNCC	20	82; 275; 1011; 1103; 1199; 1268; 1300; 1430; 1667; 1790; 1878; 1954; 2045; 2072; 2773; 4182; 4627; 4673; 4731; 4764
Van91I	CCANNNN!NTGG	2	1197; 2256
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	3	661; 808; 5271
VpaK11AI	!GGWCC	8	1199; 1300; 1667; 1790; 1878; 1954; 4182; 4627
VpaK11BI	G!GWCC	8	1200; 1301; 1668; 1791; 1879; 1955; 4183; 4628
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	1	637
XapI	R!AATTY	3	2481; 2585; 2596
XbaI	T!CTAGA	1	2314
XceI	RCATG!Y	6	651; 2010; 3237; 3309; 4072; 5589
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1328
XhoII	R!GATCY	12	585; 1214; 1796; 2302; 2311; 3838; 4084; 4476; 4835; 4847; 4933; 4944
XmaI	C!CCGGG	1	621
XmaJI	C!CTAGG	2	3489; 4504
XmiI	GT!MKAC	0	
XmnI	GAANN!NNTTC	1	1750
XspI	C!TAG	10	592; 1765; 1891; 2315; 2516; 2934; 3490; 4505; 4839; 5092
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3239; 3311; 5642