

## pTagFP635-tubulin vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2846; 3051
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	3134; 4090; 5879
AatI	AGG!CCT	3	1048; 2500; 3884
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	3	1199; 1544; 1952
AccII	CG!CG	15	60; 2951; 2987; 3363; 3383; 3407; 3438; 4129; 4430; 4868; 4952; 5015; 5084; 5357; 5938
AccIII	T!CCGGA	1	1324
Acc16I	TGC!GCA	1	4165
Acc36I	ACCTGCNNNN!	2	4331; 4781
Acc36I	!NNNNNNNNGCAGGT	1	3950
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	10	465; 673; 733; 1582; 2118; 2378; 2427; 3216; 4062; 4097
AccB7I	CCANNNN!NTGG	1	2370
AccBSI	CCG!CTC	2	3487; 4676
AccBSI	GAG!CGG	2	3323; 4730
AceIII	CAGCTCNNNNNNN!	3	1606; 1624; 3019
AceIII	!NNNNNNNNNNGAGCTG	3	552; 619; 2447
AciI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 932; 1070; 1172; 1590; 2025; 2130; 3378; 3381; 3395; 3485; 3733; 3745; 3754; 3766; 3776; 3787; 3833; 3972; 4035; 4537; 4582; 4648; 4674; 4799; 4802; 4950; 5082; 5389; 5533; 6029
AciI	G!CGG	26	370; 403; 528; 767; 1079; 1121; 3323; 3350; 3438; 3548; 4129; 4193; 4294; 4297; 4577; 4632; 4730; 4868; 5015; 5155; 5398; 5643; 5764; 5783; 5910; 5938
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	2706; 2715; 3931; 4242; 4488; 4880; 5239; 5337; 5423
AclWI	!NNNNNGATCC	7	580; 1154; 2693; 4307; 4851; 5238; 5335
AcoI	Y!GGCCR	9	1277; 1368; 1440; 2147; 2444; 3969; 4143; 4534; 4561
AcsI	R!AATY	5	1703; 2101; 2877; 2981; 2992
AcuI	CTGAAGNNNNNNNNNNNNNNN!	3	1129; 4209; 4641
AcuI	!NNNNNNNNNNNNNCTTCAG	3	1482; 1720; 5439
AcvI	CAC!GTG	1	1524
AcyI	GR!CGYC	8	122; 175; 258; 444; 1196; 4063; 4765; 4844
AdeI	CACNNN!GTG	2	1269; 3179
AfaI	GT!AC	13	219; 244; 299; 332; 383; 540; 664; 814; 1066; 2296; 2453; 2563; 4369
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	26	49; 730; 843; 1009; 1075; 1695; 1800; 2266; 2370; 2448; 2628; 3075; 3401; 3793; 4044; 4588; 4869; 4901; 5033; 5068; 5118; 5150; 5503; 5782; 5948; 5966
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	2	2949; 5981
AgeI	A!CCGGT	2	600; 1729
AgsI	TTS!AA	10	696; 1146; 1488; 2394; 2662; 3474; 3518; 3528; 3941; 5517
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	2307
AjnI	!CCWGG	25	88; 281; 794; 842; 938; 953; 1082; 1370; 1415; 1865; 1922; 2114; 2430; 2441; 2500; 2510; 3597; 3652; 3669; 4448; 5027; 5130; 5820; 5833; 5954
AjuI	GAANNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNTTC	1	1828

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	CCAANNNNNNNNTTCNNNNNNNNNNNN!	1	1860
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	2	613; 2425
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	3	1540; 3637; 3709
AlfI	!NNNNNNNNNGCANNNNNNNTGC	3	1506; 3603; 3675
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	3	1020; 1444; 3145
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	3	988; 1412; 3113
AluI	AG!CT	25	566; 633; 660; 806; 1113; 1407; 1596; 1614; 1713; 1760; 1839; 1879; 2196; 2461; 2842; 3009; 3266; 3561; 3849; 4169; 4627; 5424; 5681; 5727; 5817
AluBI	AG!CT	25	566; 633; 660; 806; 1113; 1407; 1596; 1614; 1713; 1760; 1839; 1879; 2196; 2461; 2842; 3009; 3266; 3561; 3849; 4169; 4627; 5424; 5681; 5727; 5817
AlwI	GGATCNNNN!	9	2706; 2715; 3931; 4242; 4488; 4880; 5239; 5337; 5423
AlwI	!NNNNNGATCC	7	580; 1154; 2693; 4307; 4851; 5238; 5335
Alw21I	GWGCW!C	7	703; 1409; 1729; 1931; 4176; 4366; 5671
Alw26I	GTCTCN!	2	434; 1813
Alw26I	!NNNNNGAGAC	7	1240; 1498; 2432; 3487; 3905; 4924; 5052
Alw44I	G!TGCAC	3	699; 1725; 5667
AlwNI	CAGNNN!CTG	3	1286; 5164; 5572
Ama87I	C!YCGRG	3	1337; 1529; 1652
Aor13HI	T!CCGGA	1	1324
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	4	1398; 3631; 3703; 5165
ApaLI	G!TGCAC	3	699; 1725; 5667
ApeKI	G!CWGC	22	818; 962; 1260; 1611; 1636; 2285; 2329; 2357; 2617; 2839; 3358; 4023; 4124; 4166; 4207; 4300; 4687; 5140; 5366; 5572; 5575; 5640
ApoI	R!AATY	5	1703; 2101; 2877; 2981; 2992
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	4578
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	4372; 5025; 5863
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	4462
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	794
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	3	1497; 2663; 3891
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	2	2606; 2699
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	4633
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	1	2538
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	1	2506
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	26	586; 984; 1134; 1160; 1334; 1680; 2211; 2699; 2708; 2721; 3901; 3905; 3924; 4235; 4313; 4394; 4403; 4481; 4857; 4873; 5232; 5244; 5322; 5330; 5341; 5416
AsiGI	A!CCGGT	2	600; 1729
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4181
Asp700I	GAANN!NNTTC	1	1776
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3885; 4900
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	24	597; 1513; 2003; 2357; 3329; 3337; 3363; 3385; 3394; 3407; 3438; 4057; 4065; 4129; 4166; 4432; 4692; 4868; 4954; 5357; 5466; 5640; 5740; 5807
AspS9I	G!GNCC	15	83; 276; 769; 1012; 1104; 1125; 1698; 2514; 2601; 3170; 4579; 5024; 5070; 5128; 5161
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	4745
AsuC2I	CC!SGG	7	1193; 1530; 1531; 4067; 4227; 4840; 5604
AsuHPI	GGTGANNNNNNNNN!	8	376; 1005; 2259; 2314; 2581; 2683; 5134; 5250
AsuHPI	!NNNNNNNTCACC	6	894; 1779; 1899; 2205; 3180; 4241

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AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	3	1337; 1529; 1652
AvaII	G!GWCC	4	1698; 2514; 4579; 5024
AviII	TGC!GCA	1	4165
AvrII	C!CTAGG	2	3885; 4900
AxyI	CC!TNAGG	3	878; 3543; 5175
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	1	2553
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	1	2586
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	12	676; 703; 736; 1313; 1529; 1661; 1729; 2123; 2383; 4009; 4102; 5671
BalI	TGG!CCA	6	1279; 1370; 1442; 2149; 2446; 4145
BamHI	G!GATCC	1	2698
BanI	G!GYRCC	10	465; 673; 733; 1582; 2118; 2378; 2427; 3216; 4062; 4097
BanII	GRGCY!C	7	1409; 1892; 2082; 2508; 3254; 4428; 5138
BanIII	AT!CGAT	1	3903
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	1170
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	1138
BasI	CCANNN!NTGG	1	2370
BauI	C!ACGAG	3	1264; 4781; 5808
BauI	C!TCGTG	2	1114; 4655
BbeI	GGCGC!C	1	4066
Bbr7I	GAAGACNNNNNN!	3	925; 1158; 1226
Bbr7I	!NNNNNNNNNNGTCTTC	1	1721
BbrPI	CAC!GTG	1	1524
BbsI	GAAGACNN!	3	920; 1153; 1221
BbsI	!NNNNNNGTCTTC	1	1726
BbuI	GCATG!C	4	2472; 3633; 3705; 4468
BbvI	GCAGCNNNNNNNN!	10	830; 1272; 1623; 2369; 2851; 4136; 4178; 4699; 5152; 5652
BbvI	!NNNNNNNNNNNGCTGC	11	949; 1623; 2272; 2316; 2604; 3345; 4010; 4194; 4287; 5353; 5559
Bbv12I	GWGCW!C	7	703; 1409; 1729; 1931; 4176; 4366; 5671
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	1	2495
BccI	CCATCNNNN!	10	1011; 1366; 1909; 1972; 2059; 2350; 3193; 3757; 4283; 4785
BccI	!NNNNNGATGG	7	1432; 2068; 2238; 2571; 3161; 3941; 4369
BceAI	ACGGCNNNNNNNNNN!	7	831; 975; 1026; 1092; 1440; 4489; 4976
BceAI	!NNNNNNNNNNNGCCGT	3	3204; 4022; 5481
BceFI	ACGGCNNNNNNNNNN!	7	831; 975; 1026; 1092; 1440; 4489; 4976
BceFI	!NNNNNNNNNNNGCCGT	3	3205; 4023; 5482
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3492; 4282; 5783
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2720
BcnI	CC!SGG	7	1193; 1530; 1531; 4067; 4227; 4840; 5604
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	2743; 5916
BdaI	!NNNNNNNNNTGANNNNNNTCA	2	2709; 5882
BfaI	C!TAG	9	592; 1298; 2711; 2912; 3330; 3886; 4901; 5235; 5488
BfiI	ACTGGGNNNNN!	2	1315; 4012
BfiI	!NNNCCCAGT	2	289; 3764
BfmI	C!TRYAG	5	1880; 2201; 3398; 5525; 5716
BfoI	RGCGC!Y	7	598; 1514; 2004; 3330; 3338; 4066; 5741
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	3492; 4282; 5783
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4331; 4781
BfuAI	!NNNNNNNGCAGGT	1	3950

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BfuCI	!GATC	26	585; 983; 1133; 1159; 1333; 1679; 2210; 2698; 2707; 2720; 3900; 3904; 3923; 4234; 4312; 4393; 4402; 4480; 4856; 4872; 5231; 5243; 5321; 5329; 5340; 5415
BglI	GCCNNNN!NGGC	6	90; 212; 283; 1088; 2387; 3838
BglII	A!GATCT	1	1333
BisI	GC!NGC	39	768; 819; 963; 1080; 1261; 1612; 1637; 2286; 2330; 2358; 2618; 2840; 3359; 3381; 3395; 3833; 3972; 4024; 4035; 4125; 4130; 4167; 4208; 4295; 4298; 4301; 4537; 4633; 4674; 4688; 4802; 5141; 5156; 5367; 5573; 5576; 5641; 5784; 5939
BlnI	C!CTAGG	2	3885; 4900
BlpI	GC!TNAGC	1	2473
BlsI	GCN!GC	39	769; 820; 964; 1081; 1262; 1613; 1638; 2287; 2331; 2359; 2619; 2841; 3360; 3382; 3396; 3834; 3973; 4025; 4036; 4126; 4131; 4168; 4209; 4296; 4299; 4302; 4538; 4634; 4675; 4689; 4803; 5142; 5157; 5368; 5574; 5577; 5642; 5785; 5940
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	4	1698; 2514; 4579; 5024
Bme1390I	CC!NGG	32	90; 283; 796; 844; 940; 955; 1084; 1193; 1372; 1417; 1530; 1531; 1867; 1924; 2116; 2432; 2443; 2502; 2512; 3599; 3654; 3671; 4067; 4227; 4450; 4840; 5029; 5132; 5604; 5822; 5835; 5956
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	3	1337; 1529; 1652
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	2307
BmgT120I	GG!NCC	15	84; 277; 770; 1013; 1105; 1126; 1699; 2515; 2602; 3171; 4580; 5025; 5071; 5129; 5162
BmiI	GGN!NCC	25	467; 675; 735; 1126; 1553; 1584; 2079; 2120; 2312; 2380; 2429; 2700; 3218; 3239; 3251; 3442; 3603; 3675; 4064; 4099; 4947; 5026; 5071; 5914; 5953
BmrI	ACTGGGNNNNN!	2	1315; 4012
BmrI	!NNNNCCCAGT	2	289; 3764
BmrFI	CC!NGG	32	90; 283; 796; 844; 940; 955; 1084; 1193; 1372; 1417; 1530; 1531; 1867; 1924; 2116; 2432; 2443; 2502; 2512; 3599; 3654; 3671; 4067; 4227; 4450; 4840; 5029; 5132; 5604; 5822; 5835; 5956
BmsI	GCATCNNNNN!	12	857; 1361; 1436; 2141; 2369; 2411; 2879; 3642; 3714; 4362; 4426; 4701
BmsI	!NNNNNNNNNGATGC	10	357; 1010; 1049; 1178; 1436; 1623; 4021; 4276; 4492; 5884
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1315; 4012
BmuI	!NNNNCCCAGT	2	289; 3764
BoxI	GACNN!NNGTC	2	1252; 1976
BpiI	GAAGACNN!	3	920; 1153; 1221
BpiI	!NNNNNGTCTTC	1	1726
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	3	1371; 3852; 4751
BpI	!NNNNNNNNNGAGNNNNNCTC	3	1339; 3820; 4719
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	1861; 1945; 4903
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	937; 4846
Bpu10I	CC!TNAGC	1	1607
Bpu10I	GC!TNAGG	1	2495
Bpu14I	TT!CGAA	1	4745
Bpu1102I	GC!TNAGC	1	2473
BpuAI	GAAGACNN!	3	920; 1153; 1221
BpuAI	!NNNNNGTCTTC	1	1726
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	2644; 5357; 5896
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	1168; 4439; 5598
BpuMI	CC!SGG	7	1193; 1530; 1531; 4067; 4227; 4840; 5604
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	1240; 2432; 5052
Bsa29I	AT!CGAT	1	3903
BsaAI	YAC!GTR	5	340; 1524; 2565; 3179; 4367
BsaBI	GATNN!NNATC	2	2725; 3922
BsaHI	GR!CGYC	8	122; 175; 258; 444; 1196; 4063; 4765; 4844

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BsaJI	C!CNGGG	28	360; 611; 707; 842; 843; 938; 1528; 1653; 1865; 1922; 2265; 2298; 2447; 2501; 3597; 3669; 3792; 3827; 3836; 3885; 4226; 4495; 4900; 5027; 5028; 5130; 5131; 5821
BsaMI	GAATGCN!	1	2814
BsaMI	G!CATTG	1	2907
BsaWI	W!CCGGW	8	600; 1324; 1729; 2704; 4094; 4938; 5628; 5775
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	3143
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	3113
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	2	1514; 2504
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTTG	3	1673; 3064; 4971
Bsc4I	CCNNNNN!NNGG	26	49; 730; 843; 1009; 1075; 1695; 1800; 2266; 2370; 2448; 2628; 3075; 3401; 3793; 4044; 4588; 4869; 4901; 5033; 5068; 5118; 5150; 5503; 5782; 5948; 5966
BscAI	GCATCNNNN!	12	856; 1360; 1435; 2140; 2368; 2410; 2878; 3641; 3713; 4361; 4425; 4700
BscAI	!NNNNNGATGC	10	360; 1013; 1052; 1181; 1439; 1626; 4024; 4279; 4495; 5887
BseI	ACTGGN!	9	1223; 1310; 1584; 1779; 2391; 2563; 4007; 4208; 5454
BseI	C!CAGT	7	295; 1722; 2364; 3092; 3770; 5566; 5579
Bse8I	GATNN!NNATC	2	2725; 3922
Bse2II	CC!TNAGG	3	878; 3543; 5175
Bse118I	R!CCGGY	6	600; 1729; 3280; 4382; 4563; 4846
BseAI	T!CCGGA	1	1324
BseBI	CC!WGG	25	90; 283; 796; 844; 940; 955; 1084; 1372; 1417; 1867; 1924; 2116; 2432; 2443; 2502; 2512; 3599; 3654; 3671; 4450; 5029; 5132; 5822; 5835; 5956
BseCI	AT!CGAT	1	3903
BseDI	C!CNGGG	28	360; 611; 707; 842; 843; 938; 1528; 1653; 1865; 1922; 2265; 2298; 2447; 2501; 3597; 3669; 3792; 3827; 3836; 3885; 4226; 4495; 4900; 5027; 5028; 5130; 5131; 5821
Bse3DI	GCAATGNN!	2	1398; 4296
Bse3DI	!CATTGC	2	2333; 2489
BseGI	GGATGNN!	5	2582; 3923; 4380; 4405; 4859
BseGI	!CATCC	10	703; 791; 848; 1003; 1358; 1427; 1901; 2132; 2360; 3749
BseJI	GATNN!NNATC	2	2725; 3922
BseLI	CCNNNNN!NNGG	26	49; 730; 843; 1009; 1075; 1695; 1800; 2266; 2370; 2448; 2628; 3075; 3401; 3793; 4044; 4588; 4869; 4901; 5033; 5068; 5118; 5150; 5503; 5782; 5948; 5966
BseMI	GCAATGNN!	2	1398; 4296
BseMI	!CATTGC	2	2333; 2489
BseMII	CTCAGNNNNNNNNNN!	3	1344; 1826; 5189
BseMII	!NNNNNNNNCTGAG	11	869; 1598; 2056; 2165; 2464; 2486; 3534; 3836; 4717; 5289; 5698
BseNI	ACTGGN!	9	1223; 1310; 1584; 1779; 2391; 2563; 4007; 4208; 5454
BseNI	C!CAGT	7	295; 1722; 2364; 3092; 3770; 5566; 5579
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	3	1487; 2653; 3881
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCN!C	12	676; 703; 736; 1313; 1529; 1661; 1729; 2123; 2383; 4009; 4102; 5671
BseXI	GCAGCNNNNNNNN!	10	830; 1272; 1623; 2369; 2851; 4136; 4178; 4699; 5152; 5652
BseXI	!NNNNNNNNNNNGCTGC	11	949; 1623; 2272; 2316; 2604; 3345; 4010; 4194; 4287; 5353; 5559
BseX3I	C!GGCCG	1	3969
BseYI	C!CCAGC	4	1857; 3606; 3678; 5677
BseYI	G!CTGGG	3	1040; 1400; 4567
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	15	60; 2951; 2987; 3363; 3383; 3407; 3438; 4129; 4430; 4868; 4952; 5015; 5084; 5357; 5938
Bsh1285I	CGRY!CG	3	605; 3972; 5647
BshFI	GG!CC	34	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1370; 1442; 1963; 2149; 2446; 2500; 2602; 3029; 3171; 3826; 3832; 3841; 3884; 3971; 4145; 4536; 4563; 5072; 5129; 5162; 5507; 5941; 5959; 5970
BshNI	G!GYRCC	10	465; 673; 733; 1582; 2118; 2378; 2427; 3216; 4062; 4097

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BshTI	A!CCGGT	2	600; 1729
BshVI	AT!CGAT	1	3903
BsiEI	CGRY!CG	3	605; 3972; 5647
BsiHKAI	GWGCW!C	7	703; 1409; 1729; 1931; 4176; 4366; 5671
BsiHKCI	C!YCGRG	3	1337; 1529; 1652
BsiSI	C!CGG	22	601; 1193; 1325; 1530; 1730; 2705; 3281; 3968; 4045; 4067; 4095; 4226; 4316; 4383; 4564; 4839; 4847; 4939; 5413; 5603; 5629; 5776
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	26	49; 730; 843; 1009; 1075; 1695; 1800; 2266; 2370; 2448; 2628; 3075; 3401; 3793; 4044; 4588; 4869; 4901; 5033; 5068; 5118; 5150; 5503; 5782; 5948; 5966
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4214; 4746; 4855
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3579; 3651; 3715; 5010
BsmI	GAATGCN!	1	2814
BsmI	G!CATTC	1	2907
BsmAI	GTCTCN!	2	434; 1813
BsmAI	!NNNNNGAGAC	7	1240; 1498; 2432; 3487; 3905; 4924; 5052
BsmBI	CGTCTCN!	1	1813
BsmBI	!NNNNNGAGACG	1	1498
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4214; 4746; 4855
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3579; 3651; 3715; 5010
BsnI	GG!CC	34	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1370; 1442; 1963; 2149; 2446; 2500; 2602; 3029; 3171; 3826; 3832; 3841; 3884; 3971; 4145; 4536; 4563; 5072; 5129; 5162; 5507; 5941; 5959; 5970
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	1240; 2432; 5052
BsoBI	C!YCGRG	3	1337; 1529; 1652
Bsp13I	T!CCGGA	1	1324
Bsp19I	C!CATGG	5	360; 611; 2265; 3792; 4495
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	3	289; 1529; 4866
Bsp24I	!NNNNNNCCANNNNNGTC	3	2029; 5287; 5465
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	3	2061; 5319; 5497
Bsp24I	!NNNNNNNGACNNNNNTGG	3	257; 1497; 4834
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4745
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	26	585; 983; 1133; 1159; 1333; 1679; 2210; 2698; 2707; 2720; 3900; 3904; 3923; 4234; 4312; 4393; 4402; 4480; 4856; 4872; 5231; 5243; 5321; 5329; 5340; 5415
Bsp1286I	GDGCH!C	22	676; 703; 736; 1313; 1409; 1529; 1661; 1729; 1892; 1931; 2082; 2123; 2383; 2508; 3254; 4009; 4102; 4176; 4366; 4428; 5138; 5671
Bsp1407I	T!GTACA	1	662
Bsp1720I	GC!TNAGC	1	2473
BspACI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 932; 1070; 1172; 1590; 2025; 2130; 3378; 3381; 3395; 3485; 3733; 3745; 3754; 3766; 3776; 3787; 3833; 3972; 4035; 4537; 4582; 4648; 4674; 4799; 4802; 4950; 5082; 5389; 5533; 6029
BspACI	G!CGG	26	370; 403; 528; 767; 1079; 1121; 3323; 3350; 3438; 3548; 4129; 4193; 4294; 4297; 4577; 4632; 4730; 4868; 5015; 5155; 5398; 5643; 5764; 5783; 5910; 5938
BspCNI	CTCAGNNNNNNNN!	3	1343; 1825; 5188
BspCNI	!NNNNNNCTGAG	11	870; 1599; 2057; 2166; 2465; 2487; 3535; 3837; 4718; 5290; 5699
BspDI	AT!CGAT	1	3903
BspD6I	GACTCNNNN!	6	418; 1336; 1488; 3136; 4742; 5619
BspD6I	!NNNNNNGAGTC	3	892; 3099; 3531
BspEI	T!CCGGA	1	1324
BspFNI	CG!CG	15	60; 2951; 2987; 3363; 3383; 3407; 3438; 4129; 4430; 4868; 4952; 5015; 5084; 5357; 5938
BspHI	T!CATGA	2	3489; 5261
BspLI	GGN!NCC	25	467; 675; 735; 1126; 1553; 1584; 2079; 2120; 2312; 2380; 2429; 2700; 3218; 3239; 3251; 3442; 3603; 3675; 4064; 4099; 4947; 5026; 5071; 5914; 5953
BspMI	ACCTGCNNNN!	2	4331; 4781

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspMI	!NNNNNNNNGCAGGT	1	3950
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	2706; 2715; 3931; 4242; 4488; 4880; 5239; 5337; 5423
BspPI	!NNNNNGATCC	7	580; 1154; 2693; 4307; 4851; 5238; 5335
BspQI	GCTCTTCN!	1	1603
BspQI	!NNNNGAAGAGC	3	623; 4407; 4617
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4745
BspT107I	G!GYRCC	10	465; 673; 733; 1582; 2118; 2378; 2427; 3216; 4062; 4097
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	1240; 2432; 5052
BsrI	ACTGGN!	9	1223; 1310; 1584; 1779; 2391; 2563; 4007; 4208; 5454
BsrI	C!CAGT	7	295; 1722; 2364; 3092; 3770; 5566; 5579
BsrBI	CCG!CTC	2	3487; 4676
BsrBI	GAG!CGG	2	3323; 4730
BsrDI	GCAATGNN!	2	1398; 4296
BsrDI	!CATTGC	2	2333; 2489
BsrFI	R!CCGGY	6	600; 1729; 3280; 4382; 4563; 4846
BsrGI	T!GTACA	1	662
BsrSI	ACTGGN!	9	1223; 1310; 1584; 1779; 2391; 2563; 4007; 4208; 5454
BsrSI	C!CAGT	7	295; 1722; 2364; 3092; 3770; 5566; 5579
BssAI	R!CCGGY	6	600; 1729; 3280; 4382; 4563; 4846
BssECI	C!CNNGG	28	360; 611; 707; 842; 938; 1528; 1653; 1865; 1922; 2265; 2298; 2447; 2501; 3597; 3669; 3792; 3827; 3836; 3885; 4226; 4495; 4900; 5027; 5028; 5130; 5131; 5821
BssHII	G!CGCGC	0	
BssKI	!CCNNGG	32	88; 281; 794; 842; 938; 953; 1082; 1191; 1370; 1415; 1528; 1529; 1865; 1922; 2114; 2430; 2441; 2500; 2510; 3597; 3652; 3669; 4065; 4225; 4448; 4838; 5027; 5130; 5602; 5820; 5833; 5954
BssMI	!GATC	26	585; 983; 1133; 1159; 1333; 1679; 2210; 2698; 2707; 2720; 3900; 3904; 3923; 4234; 4312; 4393; 4402; 4480; 4856; 4872; 5231; 5243; 5321; 5329; 5340; 5415
BssNI	GR!CGYC	8	122; 175; 258; 444; 1196; 4063; 4765; 4844
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1264; 4781; 5808
BssSI	C!TCGTG	2	1114; 4655
BssT1I	C!CWWGG	8	360; 611; 2265; 2447; 3792; 3885; 4495; 4900
Bst6I	CTCTTCN!	1	1603
Bst6I	!NNNNGAAGAG	4	623; 3530; 4407; 4617
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 1196; 4063; 4765; 4844
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	4	1397; 3630; 3702; 5164
BstAUI	T!GTACA	1	662
BstBI	TT!CGAA	1	4745
Bst2BI	C!ACGAG	3	1264; 4781; 5808
Bst2BI	C!TCGTG	2	1114; 4655
BstBAI	YAC!GTR	5	340; 1524; 2565; 3179; 4367
Bst4CI	ACN!GT	17	76; 198; 269; 543; 581; 678; 1560; 2299; 2424; 3154; 4443; 4559; 4667; 4990; 5481; 5951; 6022
BstC8I	GCN!NGC	40	86; 279; 593; 721; 925; 1398; 1519; 1594; 1711; 1715; 2223; 2234; 2283; 2470; 2508; 2546; 3282; 3325; 3339; 3612; 3631; 3684; 3703; 3957; 4143; 4362; 4428; 4434; 4466; 4507; 4511; 4565; 4848; 5035; 5082; 5138; 5160; 5371; 5931; 5968
BstDEI	C!TNAG	17	620; 878; 1175; 1330; 1607; 1812; 2065; 2174; 2473; 2495; 2694; 3543; 3845; 4726; 5175; 5298; 5707
BstDSI	C!CRYGG	6	360; 611; 2265; 2298; 3792; 4495
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	2	2446; 2626
BstF5I	GGATGNN!	5	2582; 3923; 4380; 4405; 4859
BstF5I	!CATCC	10	703; 791; 848; 1003; 1358; 1427; 1901; 2132; 2360; 3749
BstFNI	CG!CG	15	60; 2951; 2987; 3363; 3383; 3407; 3438; 4129; 4430; 4868; 4952; 5015; 5084; 5357; 5938
BstH2I	RGC GC!Y	7	598; 1514; 2004; 3330; 3338; 4066; 5741

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstHHI	GCG!C	24	597; 1513; 2003; 2357; 3329; 3337; 3363; 3385; 3394; 3407; 3438; 4057; 4065; 4129; 4166; 4432; 4692; 4868; 4954; 5357; 5466; 5640; 5740; 5807
BstKTI	GAT!C	26	588; 986; 1136; 1162; 1336; 1682; 2213; 2701; 2710; 2723; 3903; 3907; 3926; 4237; 4315; 4396; 4405; 4483; 4859; 4875; 5234; 5246; 5324; 5332; 5343; 5418
BstMAI	GTCTCN!	2	434; 1813
BstMAI	!NNNNNGAGAC	7	1240; 1498; 2432; 3487; 3905; 4924; 5052
BstMBI	!GATC	26	585; 983; 1133; 1159; 1333; 1679; 2210; 2698; 2707; 2720; 3900; 3904; 3923; 4234; 4312; 4393; 4402; 4480; 4856; 4872; 5231; 5243; 5321; 5329; 5340; 5415
BstMCI	CGRY!CG	3	605; 3972; 5647
BstMWI	GCNNNNN!NNGC	36	90; 212; 244; 283; 376; 400; 657; 1088; 1397; 1589; 2033; 2155; 2179; 2335; 2387; 2474; 2545; 3290; 3320; 3347; 3389; 3630; 3702; 3753; 3832; 4054; 4138; 4161; 4300; 4423; 4506; 4773; 4960; 5164; 5363; 5935
BstNI	CC!WGG	25	90; 283; 796; 844; 940; 955; 1084; 1372; 1417; 1867; 1924; 2116; 2432; 2443; 2502; 2512; 3599; 3654; 3671; 4450; 5029; 5132; 5822; 5835; 5956
BstNSI	RCATG!Y	6	651; 2472; 3633; 3705; 4468; 5985
BstOI	CC!WGG	25	90; 283; 796; 844; 940; 955; 1084; 1372; 1417; 1867; 1924; 2116; 2432; 2443; 2502; 2512; 3599; 3654; 3671; 4450; 5029; 5132; 5822; 5835; 5956
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	2	1252; 1976
BstSCI	!CCNGG	32	88; 281; 794; 842; 938; 953; 1082; 1191; 1370; 1415; 1528; 1529; 1865; 1922; 2114; 2430; 2441; 2500; 2510; 3597; 3652; 3669; 4065; 4225; 4448; 4838; 5027; 5130; 5602; 5820; 5833; 5954
BstSFI	C!TRYAG	5	1880; 2201; 3398; 5525; 5716
BstSLI	GKGC!C	12	676; 703; 736; 1313; 1529; 1661; 1729; 2123; 2383; 4009; 4102; 5671
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	15	60; 2951; 2987; 3363; 3383; 3407; 3438; 4129; 4430; 4868; 4952; 5015; 5084; 5357; 5938
Bst2UI	CC!WGG	25	90; 283; 796; 844; 940; 955; 1084; 1372; 1417; 1867; 1924; 2116; 2432; 2443; 2502; 2512; 3599; 3654; 3671; 4450; 5029; 5132; 5822; 5835; 5956
BstV1I	GCAGCNNNNNNN!	10	830; 1272; 1623; 2369; 2851; 4136; 4178; 4699; 5152; 5652
BstV1I	!NNNNNNNNNNNGCTGC	11	949; 1623; 2272; 2316; 2604; 3345; 4010; 4194; 4287; 5353; 5559
BstV2I	GAAGACNN!	3	920; 1153; 1221
BstV2I	!NNNNNNGTCTTC	1	1726
BstXI	CCANNNNN!NTGG	3	1438; 1762; 2244
BstX2I	R!GATCY	12	585; 1159; 1333; 2698; 2707; 4234; 4480; 4872; 5231; 5243; 5329; 5340
BstYI	R!GATCY	12	585; 1159; 1333; 2698; 2707; 4234; 4480; 4872; 5231; 5243; 5329; 5340
BstZI	C!GGCCG	1	3969
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3492; 4282; 5783
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3903
Bsu36I	CC!TNAGG	3	878; 3543; 5175
BsuRI	GG!CC	34	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1370; 1442; 1963; 2149; 2446; 2500; 2602; 3029; 3171; 3826; 3832; 3841; 3884; 3971; 4145; 4536; 4563; 5072; 5129; 5162; 5507; 5941; 5959; 5970
BsuTUI	AT!CGAT	1	3903
BtgI	C!CRYGG	6	360; 611; 2265; 2298; 3792; 4495
BtgZI	GCGATGNNNNNNNNN!	2	3180; 4515
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 4334; 4678
BthCI	GCNG!C	39	770; 821; 965; 1082; 1263; 1614; 1639; 2288; 2332; 2360; 2620; 2842; 3361; 3383; 3397; 3835; 3974; 4026; 4037; 4127; 4132; 4169; 4210; 4297; 4300; 4303; 4539; 4635; 4676; 4690; 4804; 5143; 5158; 5369; 5575; 5578; 5643; 5786; 5941
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	2307



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	2054; 2902
BtsCI	GGATGNN!	5	2582; 3923; 4380; 4405; 4859
BtsCI	!CATCC	10	703; 791; 848; 1003; 1358; 1427; 1901; 2132; 2360; 3749
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4331; 4781
BveI	!NNNNNNNNNGCAGGT	1	3950
Cac8I	GCN!NGC	40	86; 279; 593; 721; 925; 1398; 1519; 1594; 1711; 1715; 2223; 2234; 2283; 2470; 2508; 2546; 3282; 3325; 3339; 3612; 3631; 3684; 3703; 3957; 4143; 4362; 4428; 4434; 4466; 4507; 4511; 4565; 4848; 5035; 5082; 5138; 5160; 5371; 5931; 5968
CaiI	CAGNNN!CTG	3	1286; 5164; 5572
CciI	T!CATGA	2	3489; 5261
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	352; 4352; 4357; 4555; 4696
CdiI	C!GATG	3	1437; 3166; 4501
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5935
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3724; 3766
CelII	GC!TNAGC	1	2473
CfoI	GCG!C	24	597; 1513; 2003; 2357; 3329; 3337; 3363; 3385; 3394; 3407; 3438; 4057; 4065; 4129; 4166; 4432; 4692; 4868; 4954; 5357; 5466; 5640; 5740; 5807
CfrI	Y!GGCCR	9	1277; 1368; 1440; 2147; 2444; 3969; 4143; 4534; 4561
Cfr9I	C!CCGGG	1	1529
Cfr10I	R!CCGGY	6	600; 1729; 3280; 4382; 4563; 4846
Cfr13I	G!GNCC	15	83; 276; 769; 1012; 1104; 1125; 1698; 2514; 2601; 3170; 4579; 5024; 5070; 5128; 5161
Cfr42I	CCG!GG	0	
ChaI	GATC!	26	589; 987; 1137; 1163; 1337; 1683; 2214; 2702; 2711; 2724; 3904; 3908; 3927; 4238; 4316; 4397; 4406; 4484; 4860; 4876; 5235; 5247; 5325; 5333; 5344; 5419
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	6	715; 2062; 3880; 5320; 5420; 5498
CjeI	!NNNNNNNNNACNNNNNNNTGG	9	64; 257; 1497; 1764; 3547; 3642; 4834; 5384; 5939
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	9	98; 291; 1531; 1798; 3581; 3676; 4868; 5418; 5973
CjeI	!NNNNNNNNCCANNNNNNGT	6	681; 2028; 3846; 5286; 5386; 5464
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	3	2062; 5320; 5498
CjePI	!NNNNNNNNGANNNNNNNTGG	7	257; 740; 1085; 1497; 2058; 4834; 5433
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	7	290; 773; 1118; 1530; 2091; 4867; 5466
CjePI	!NNNNNNNNCCANNNNNNNNTC	3	2029; 5287; 5465
Clal	AT!CGAT	1	3903
CpoI	CG!GWCCG	1	4579
CseI	GACGCNNNNN!	3	526; 4773; 4852
CseI	!NNNNNNNNNNNGCGTC	4	1185; 3396; 5291; 5869
CsiI	A!CCWGGT	2	2114; 3652
CspI	CG!GWCCG	1	4579
Csp6I	G!TAC	13	218; 243; 298; 331; 382; 539; 663; 813; 1065; 2295; 2452; 2562; 4368
Csp45I	TT!CGAA	1	4745
CspAI	A!CCGGT	2	600; 1729
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	2	1545; 2472
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	2	1580; 2507
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	6	665; 1256; 1700; 2688; 3343; 4952
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	1	1463
CviAII	C!ATG	29	301; 361; 612; 648; 654; 666; 744; 810; 890; 1101; 1800; 1947; 2188; 2266; 2277; 2469; 3490; 3630; 3702; 3793; 3934; 4279; 4465; 4496; 4522; 4878; 5262; 5982; 6033

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviJI	RG!CY	123	42; 84; 93; 277; 566; 633; 660; 723; 770; 799; 806; 884; 950; 962; 1013; 1040; 1048; 1082; 1105; 1113; 1127; 1237; 1273; 1279; 1370; 1375; 1407; 1434; 1442; 1534; 1596; 1614; 1713; 1717; 1742; 1760; 1839; 1879; 1890; 1963; 2036; 2080; 2149; 2182; 2196; 2232; 2236; 2281; 2390; 2415; 2446; 2461; 2488; 2500; 2506; 2602; 2617; 2732; 2842; 3009; 3029; 3171; 3252; 3266; 3280; 3561; 3602; 3674; 3797; 3826; 3832; 3841; 3849; 3872; 3884; 3890; 3971; 3988; 3996; 4023; 4048; 4132; 4141; 4145; 4169; 4207; 4283; 4300; 4319; 4382; 4426; 4436; 4453; 4536; 4563; 4567; 4604; 4627; 4643; 4823; 4850; 4911; 5033; 5072; 5129; 5136; 5143; 5162; 5173; 5424; 5453; 5496; 5507; 5572; 5651; 5676; 5681; 5727; 5817; 5915; 5941; 5959; 5970
CviKI-1	RG!CY	123	42; 84; 93; 277; 566; 633; 660; 723; 770; 799; 806; 884; 950; 962; 1013; 1040; 1048; 1082; 1105; 1113; 1127; 1237; 1273; 1279; 1370; 1375; 1407; 1434; 1442; 1534; 1596; 1614; 1713; 1717; 1742; 1760; 1839; 1879; 1890; 1963; 2036; 2080; 2149; 2182; 2196; 2232; 2236; 2281; 2390; 2415; 2446; 2461; 2488; 2500; 2506; 2602; 2617; 2732; 2842; 3009; 3029; 3171; 3252; 3266; 3280; 3561; 3602; 3674; 3797; 3826; 3832; 3841; 3849; 3872; 3884; 3890; 3971; 3988; 3996; 4023; 4048; 4132; 4141; 4145; 4169; 4207; 4283; 4300; 4319; 4382; 4426; 4436; 4453; 4536; 4563; 4567; 4604; 4627; 4643; 4823; 4850; 4911; 5033; 5072; 5129; 5136; 5143; 5162; 5173; 5424; 5453; 5496; 5507; 5572; 5651; 5676; 5681; 5727; 5817; 5915; 5941; 5959; 5970
CviQI	G!TAC	13	218; 243; 298; 331; 382; 539; 663; 813; 1065; 2295; 2452; 2562; 4368
DdeI	C!TNAG	17	620; 878; 1175; 1330; 1607; 1812; 2065; 2174; 2473; 2495; 2694; 3543; 3845; 4726; 5175; 5298; 5707
DinI	GGC!GCC	1	4064
DpnI	GA!TC	26	587; 985; 1135; 1161; 1335; 1681; 2212; 2700; 2709; 2722; 3902; 3906; 3925; 4236; 4314; 4395; 4404; 4482; 4858; 4874; 5233; 5245; 5323; 5331; 5342; 5417
DpnII	!GATC	26	585; 983; 1133; 1159; 1333; 1679; 2210; 2698; 2707; 2720; 3900; 3904; 3923; 4234; 4312; 4393; 4402; 4480; 4856; 4872; 5231; 5243; 5321; 5329; 5340; 5415
DraI	TTT!AAA	3	2765; 5207; 5226
DraII	RG!GNCCY	1	5161
DraIII	CACNNN!GTG	2	1269; 3179
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	3	266; 1544; 5543
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	3	3134; 4090; 5879
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	2	476; 1960
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	3134; 4090; 5879
EaeI	Y!GGCCR	9	1277; 1368; 1440; 2147; 2444; 3969; 4143; 4534; 4561
EagI	C!GGCCG	1	3969
Eam1104I	CTCTTCN!	1	1603
Eam1104I	!NNNNGAAGAG	4	623; 3530; 4407; 4617
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	1	1603
EarI	!NNNNGAAGAG	4	623; 3530; 4407; 4617
EciI	GGCGANNNNNNNNNNNNNN!	4	3563; 4592; 5779; 5925
EciI	!NNNNNNNNNTCCGCC	4	496; 3734; 3755; 3776
Ecl136II	GAG!CTC	1	1407
EclXI	C!GGCCG	1	3969
Eco24I	GRGCY!C	7	1409; 1892; 2082; 2508; 3254; 4428; 5138
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	3	1240; 2432; 5052
Eco32I	GAT!ATC	1	1995
Eco47I	G!GWCC	4	1698; 2514; 4579; 5024
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	3969
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	1129; 4209; 4641
Eco57I	!NNNNNNNNNNNNNNNNCTTCAG	3	1482; 1720; 5439
Eco72I	CAC!GTG	1	1524
Eco81I	CC!TNAGG	3	878; 3543; 5175
Eco88I	C!YCGRG	3	1337; 1529; 1652

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	8	360; 611; 2265; 2447; 3792; 3885; 4495; 4900
Eco147I	AGG!CCT	3	1048; 2500; 3884
EcoHI	!CCSGG	7	1191; 1528; 1529; 4065; 4225; 4838; 5602
EcoICRI	GAG!CTC	1	1407
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	6	1129; 1861; 1945; 4209; 4641; 4903
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	937; 1482; 1720; 4846; 5439
EcoNI	CCTNN!NNNAGG	2	2446; 2626
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	5161
EcoRI	G!AATTC	2	1703; 2101
EcoRII	!CCWGG	25	88; 281; 794; 842; 938; 953; 1082; 1370; 1415; 1865; 1922; 2114; 2430; 2441; 2500; 2510; 3597; 3652; 3669; 4448; 5027; 5130; 5820; 5833; 5954
EcoRV	GAT!ATC	1	1995
EcoT14I	C!CWWGG	8	360; 611; 2265; 2447; 3792; 3885; 4495; 4900
EcoT22I	ATGCA!T	3	3635; 3707; 6038
EcoT38I	GRGCY!C	7	1409; 1892; 2082; 2508; 3254; 4428; 5138
Eco53kI	GAG!CTC	1	1407
EgeI	GGC!GCC	1	4064
EheI	GGC!GCC	1	4064
ErhI	C!CWWGG	8	360; 611; 2265; 2447; 3792; 3885; 4495; 4900
EsaBC3I	TC!GA	17	762; 789; 1257; 1339; 1992; 1998; 3213; 3904; 4177; 4333; 4357; 4393; 4555; 4746; 4791; 5046; 5884
Esp3I	CGTCTCN!	1	1813
Esp3I	!NNNNNGAGACG	1	1498
FaeI	CATG!	29	304; 364; 615; 651; 657; 669; 747; 813; 893; 1104; 1803; 1950; 2191; 2269; 2280; 2472; 3493; 3633; 3705; 3796; 3937; 4282; 4468; 4499; 4525; 4881; 5265; 5985; 6036
Fail	YA!TR	76	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 649; 655; 667; 745; 811; 891; 909; 1102; 1155; 1205; 1649; 1801; 1823; 1948; 1970; 2154; 2156; 2189; 2267; 2278; 2470; 2537; 2614; 2636; 2725; 2735; 2801; 2846; 3051; 3479; 3491; 3622; 3631; 3694; 3703; 3727; 3794; 3818; 3935; 3999; 4280; 4305; 4466; 4497; 4523; 4595; 4811; 4879; 4957; 5009; 5170; 5187; 5189; 5191; 5263; 5541; 5730; 5846; 5919; 5983; 6034
FalI	AAGNNNNCTTNNNNNNNNNNNN!	3	888; 2565; 4403
FalI	!NNNNNNNNAAGNNNNNNCTT	3	856; 2533; 4371
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4214; 4746; 4855
FaqI	!NNNNNNNNNNNNNGTCCC	4	3579; 3651; 3715; 5010
FatI	!CATG	29	300; 360; 611; 647; 653; 665; 743; 809; 889; 1100; 1799; 1946; 2187; 2265; 2276; 2468; 3489; 3629; 3701; 3792; 3933; 4278; 4464; 4495; 4521; 4877; 5261; 5981; 6032
FauI	CCCGCNNNN!	11	93; 119; 286; 1077; 1179; 2137; 3385; 3740; 3761; 4957; 5089
FauI	!NNNNNNNGCGGG	6	1114; 3316; 4186; 4723; 4861; 5008
FauNDI	CA!TATG	2	234; 2154
FbaI	T!GATCA	1	2720
FblI	GT!MKAC	3	1199; 1544; 1952
FmuI	GGNC!C	15	86; 279; 772; 1015; 1107; 1128; 1701; 2517; 2604; 3173; 4582; 5027; 5073; 5131; 5164
Fnu4HI	GC!NGC	39	768; 819; 963; 1080; 1261; 1612; 1637; 2286; 2330; 2358; 2618; 2840; 3359; 3381; 3395; 3833; 3972; 4024; 4035; 4125; 4130; 4167; 4208; 4295; 4298; 4301; 4537; 4633; 4674; 4688; 4802; 5141; 5156; 5367; 5573; 5576; 5641; 5784; 5939
FokI	GGATGNNNNNNNNNN!	5	2589; 3930; 4387; 4412; 4866
FokI	!NNNNNNNNNNNNNCATCC	10	690; 778; 835; 990; 1345; 1414; 1888; 2119; 2347; 3736
FriOI	GRGCY!C	7	1409; 1892; 2082; 2508; 3254; 4428; 5138
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	4165
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1298; 2711; 2912; 3330; 3886; 4901; 5235; 5488

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	208	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 690; 720; 737; 751; 784; 798; 816; 840; 855; 885; 918; 945; 960; 979; 1015; 1062; 1081; 1096; 1119; 1141; 1164; 1184; 1205; 1251; 1293; 1309; 1338; 1371; 1396; 1410; 1429; 1444; 1463; 1497; 1541; 1568; 1599; 1615; 1653; 1680; 1702; 1735; 1768; 1803; 1848; 1863; 1877; 1904; 1918; 1932; 1956; 1977; 2002; 2017; 2032; 2050; 2064; 2094; 2119; 2135; 2149; 2163; 2196; 2229; 2246; 2272; 2302; 2327; 2346; 2364; 2395; 2425; 2444; 2460; 2496; 2514; 2530; 2553; 2616; 2634; 2715; 2746; 2785; 2799; 2940; 3035; 3059; 3082; 3105; 3123; 3145; 3166; 3185; 3204; 3233; 3254; 3268; 3294; 3382; 3408; 3457; 3498; 3516; 3555; 3571; 3609; 3666; 3681; 3738; 3758; 3772; 3789; 3803; 3840; 3855; 3898; 3981; 4048; 4079; 4099; 4114; 4159; 4173; 4239; 4253; 4272; 4288; 4329; 4349; 4396; 4446; 4462; 4482; 4507; 4527; 4550; 4577; 4595; 4621; 4661; 4687; 4711; 4767; 4781; 4809; 4852; 4873; 4908; 4952; 5040; 5064; 5086; 5106; 5122; 5143; 5157; 5176; 5260; 5280; 5308; 5323; 5357; 5399; 5426; 5441; 5486; 5510; 5524; 5546; 5572; 5592; 5616; 5642; 5690; 5709; 5728; 5754; 5789; 5834; 5864; 5878; 5929; 5943; 5968; 5984; 6005; 6034
FspEI	!NNNNNNNNNNNNNGG	168	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 607; 625; 652; 694; 715; 739; 781; 800; 829; 865; 902; 925; 944; 974; 995; 1022; 1061; 1087; 1106; 1178; 1204; 1252; 1291; 1310; 1352; 1373; 1402; 1424; 1451; 1492; 1515; 1534; 1565; 1607; 1640; 1660; 1681; 1699; 1723; 1748; 1766; 1786; 1808; 1852; 1909; 1933; 2060; 2101; 2131; 2230; 2252; 2285; 2356; 2380; 2410; 2428; 2482; 2544; 2563; 2584; 2614; 2635; 2653; 2671; 2690; 2734; 2834; 2903; 3011; 3060; 3082; 3110; 3146; 3191; 3220; 3256; 3275; 3303; 3323; 3386; 3409; 3517; 3549; 3567; 3596; 3639; 3668; 3779; 3808; 3851; 3872; 3900; 3933; 3953; 3978; 4005; 4030; 4052; 4080; 4106; 4127; 4178; 4199; 4217; 4265; 4301; 4357; 4382; 4406; 4435; 4458; 4482; 4508; 4530; 4549; 4574; 4614; 4650; 4715; 4800; 4824; 4853; 4887; 4908; 4928; 4973; 5000; 5019; 5052; 5104; 5135; 5162; 5214; 5312; 5383; 5428; 5489; 5554; 5588; 5614; 5632; 5668; 5738; 5761; 5783; 5807; 5840; 5888; 5923; 5941; 5998
Fsp4HI	GC!NGC	39	768; 819; 963; 1080; 1261; 1612; 1637; 2286; 2330; 2358; 2618; 2840; 3359; 3381; 3395; 3833; 3972; 4024; 4035; 4125; 4130; 4167; 4208; 4295; 4298; 4301; 4537; 4633; 4674; 4688; 4802; 5141; 5156; 5367; 5573; 5576; 5641; 5784; 5939
GdiII	C!GGCCR	1	3969
GdiII	Y!GGCCG	3	3969; 4534; 4561
GlaI	GC!GC	24	596; 1512; 2002; 2356; 3328; 3336; 3362; 3384; 3393; 3406; 3437; 4056; 4064; 4128; 4165; 4431; 4691; 4867; 4953; 5356; 5465; 5639; 5739; 5806
GluI	GC!NGC	39	768; 819; 963; 1080; 1261; 1612; 1637; 2286; 2330; 2358; 2618; 2840; 3359; 3381; 3395; 3833; 3972; 4024; 4035; 4125; 4130; 4167; 4208; 4295; 4298; 4301; 4537; 4633; 4674; 4688; 4802; 5141; 5156; 5367; 5573; 5576; 5641; 5784; 5939
GsaI	CCCAG!C	4	1861; 3610; 3682; 5681
GsaI	GCTGG!G	3	1044; 1404; 4571
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	1861; 1945; 4903
GsuI	!NNNNNNNNNNNNNCTCCAG	2	937; 4846
HaeI	WGG!CCW	13	1048; 1279; 1370; 1442; 1963; 2149; 2446; 2500; 3884; 4145; 5507; 5959; 5970
HaeII	RGCGC!Y	7	598; 1514; 2004; 3330; 3338; 4066; 5741
HaeIII	GG!CC	34	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1370; 1442; 1963; 2149; 2446; 2500; 2602; 3029; 3171; 3826; 3832; 3841; 3884; 3971; 4145; 4536; 4563; 5072; 5129; 5162; 5507; 5941; 5959; 5970
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	2738; 4259
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2704; 4225
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	2737; 4258
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2706; 4227
HapII	C!CGG	22	601; 1193; 1325; 1530; 1730; 2705; 3281; 3968; 4045; 4067; 4095; 4226; 4316; 4383; 4564; 4839; 4847; 4939; 5413; 5603; 5629; 5776
HgaI	GACGCNNNNN!	3	526; 4773; 4852
HgaI	!NNNNNNNNNGCGTC	4	1185; 3396; 5291; 5869

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HhaI	GCG!C	24	597; 1513; 2003; 2357; 3329; 3337; 3363; 3385; 3394; 3407; 3438; 4057; 4065; 4129; 4166; 4432; 4692; 4868; 4954; 5357; 5466; 5640; 5740; 5807
Hin1I	GR!CGYC	8	122; 175; 258; 444; 1196; 4063; 4765; 4844
Hin1II	CATG!	29	304; 364; 615; 651; 657; 669; 747; 813; 893; 1104; 1803; 1950; 2191; 2269; 2280; 2472; 3493; 3633; 3705; 3796; 3937; 4282; 4468; 4499; 4525; 4881; 5265; 5985; 6036
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	2737; 4258
Hin4I	!NNNNNNNGABNNNNNRTC	3	2705; 4226; 4256
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	2737; 4258; 4288
Hin4I	!NNNNNNNGAYNNNNNVTC	2	2705; 4226
Hin6I	G!CGC	24	595; 1511; 2001; 2355; 3327; 3335; 3361; 3383; 3392; 3405; 3436; 4055; 4063; 4127; 4164; 4430; 4690; 4866; 4952; 5355; 5464; 5638; 5738; 5805
HinP1I	G!CGC	24	595; 1511; 2001; 2355; 3327; 3335; 3361; 3383; 3392; 3405; 3436; 4055; 4063; 4127; 4164; 4430; 4690; 4866; 4952; 5355; 5464; 5638; 5738; 5805
HincII	GTY!RAC	2	2091; 2826
HindII	GTY!RAC	2	2091; 2826
HindIII	A!AGCTT	0	
HinfI	G!ANTC	17	410; 749; 899; 1226; 1328; 1480; 2653; 3106; 3128; 3538; 4548; 4682; 4734; 4792; 4829; 5611; 6007
HpaI	GTT!AAC	1	2826
HpaII	C!CGG	22	601; 1193; 1325; 1530; 1730; 2705; 3281; 3968; 4045; 4067; 4095; 4226; 4316; 4383; 4564; 4839; 4847; 4939; 5413; 5603; 5629; 5776
HphI	GGTGANNNNNNN!	8	376; 1005; 2259; 2314; 2581; 2683; 5134; 5250
HphI	!NNNNNNNTCACC	6	894; 1779; 1899; 2205; 3180; 4241
Hpy8I	GTN!NAC	19	201; 539; 577; 681; 701; 996; 1200; 1209; 1545; 1727; 1787; 1953; 2091; 2556; 2826; 3110; 3127; 3182; 5669
Hpy99I	CGWCG!	8	1258; 4153; 4181; 4475; 4490; 4767; 5152; 5885
Hpy166II	GTN!NAC	19	201; 539; 577; 681; 701; 996; 1200; 1209; 1545; 1727; 1787; 1953; 2091; 2556; 2826; 3110; 3127; 3182; 5669
Hpy188I	TCN!GA	16	585; 708; 988; 1333; 1935; 2598; 3237; 3846; 4030; 4374; 4727; 4828; 5307; 5441; 5794; 5872
Hpy188III	TC!NNGA	26	981; 1185; 1325; 1337; 1383; 2106; 2711; 3490; 3542; 3855; 3908; 4081; 4397; 4406; 4489; 4545; 4589; 4679; 4712; 4781; 5262; 5336; 5419; 5517; 5615; 5749
HpyAV	CCTTCNNNNNN!	8	789; 837; 882; 1494; 1953; 4708; 4815; 5494
HpyAV	!NNNNNGAAGG	13	709; 1081; 2578; 2622; 2656; 2674; 3296; 4191; 4920; 4936; 5119; 5436; 5746
HpyCH4III	ACN!GT	17	76; 198; 269; 543; 581; 678; 1560; 2299; 2424; 3154; 4443; 4559; 4667; 4990; 5481; 5951; 6022
HpyCH4IV	A!CGT	21	122; 134; 175; 258; 339; 444; 977; 1253; 1364; 1523; 1806; 2306; 2564; 3123; 3135; 3178; 3288; 4179; 4366; 5147; 5280
HpyCH4V	TG!CA	23	651; 701; 1023; 1139; 1352; 1727; 2468; 2812; 2839; 2907; 3624; 3633; 3696; 3705; 3820; 3896; 3955; 4114; 4289; 4303; 5373; 5669; 6036
HpyF3I	C!TNAG	17	620; 878; 1175; 1330; 1607; 1812; 2065; 2174; 2473; 2495; 2694; 3543; 3845; 4726; 5175; 5298; 5707
HpyF10VI	GCNNNNN!NNGC	36	90; 212; 244; 283; 376; 400; 657; 1088; 1397; 1589; 2033; 2155; 2179; 2335; 2387; 2474; 2545; 3290; 3320; 3347; 3389; 3630; 3702; 3753; 3832; 4054; 4138; 4161; 4300; 4423; 4506; 4773; 4960; 5164; 5363; 5935
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 1196; 4063; 4765; 4844
Hsp92II	CATG!	29	304; 364; 615; 651; 657; 669; 747; 813; 893; 1104; 1803; 1950; 2191; 2269; 2280; 2472; 3493; 3633; 3705; 3796; 3937; 4282; 4468; 4499; 4525; 4881; 5265; 5985; 6036
HspAI	G!CGC	24	595; 1511; 2001; 2355; 3327; 3335; 3361; 3383; 3392; 3405; 3436; 4055; 4063; 4127; 4164; 4430; 4690; 4866; 4952; 5355; 5464; 5638; 5738; 5805
KasI	G!GCGCC	1	4062
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1324
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	2720
KspAI	GTT!AAC	1	2826

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kzo9I	!GATC	26	585; 983; 1133; 1159; 1333; 1679; 2210; 2698; 2707; 2720; 3900; 3904; 3923; 4234; 4312; 4393; 4402; 4480; 4856; 4872; 5231; 5243; 5321; 5329; 5340; 5415
LguI	GCTCTTCN!	1	1603
LguI	!NNNNGAAGAGC	3	623; 4407; 4617
LpnI	RGC!GCY	7	596; 1512; 2002; 3328; 3336; 4064; 5739
LpnPI	CCDGNNNNNNNNNN!	83	102; 295; 614; 751; 808; 856; 890; 952; 967; 1028; 1096; 1120; 1144; 1206; 1293; 1338; 1384; 1410; 1429; 1444; 1543; 1606; 1735; 1807; 1871; 1936; 2050; 2077; 2095; 2119; 2174; 2246; 2302; 2377; 2425; 2444; 2514; 2542; 2718; 2800; 3105; 3294; 3517; 3555; 3571; 3611; 3666; 3683; 3783; 3868; 3981; 4058; 4080; 4103; 4239; 4253; 4272; 4329; 4396; 4446; 4462; 4519; 4577; 4786; 4852; 4876; 4952; 5041; 5144; 5177; 5408; 5426; 5572; 5592; 5616; 5642; 5691; 5789; 5834; 5864; 5943; 5968; 6005
LpnPI	!NNNNNNNNNNNNNNCHGG	72	75; 268; 552; 586; 781; 829; 925; 1026; 1069; 1178; 1204; 1291; 1310; 1357; 1386; 1499; 1565; 1607; 1699; 1723; 1760; 1825; 1852; 1909; 2101; 2131; 2372; 2417; 2487; 2544; 2690; 3146; 3266; 3323; 3386; 3584; 3596; 3656; 3668; 3900; 3945; 3988; 4030; 4052; 4080; 4127; 4189; 4211; 4301; 4368; 4391; 4435; 4530; 4549; 4574; 4723; 4824; 4867; 4924; 5014; 5117; 5144; 5162; 5398; 5435; 5588; 5614; 5754; 5772; 5807; 5888; 5941
Lsp1109I	GCAGCNNNNNNNN!	10	830; 1272; 1623; 2369; 2851; 4136; 4178; 4699; 5152; 5652
Lsp1109I	!NNNNNNNNNNNNNGCTGC	11	949; 1623; 2272; 2316; 2604; 3345; 4010; 4194; 4287; 5353; 5559
LweI	GCATCNNNNN!	12	857; 1361; 1436; 2141; 2369; 2411; 2879; 3642; 3714; 4362; 4426; 4701
LweI	!NNNNNNNNNGATGC	10	357; 1010; 1049; 1178; 1436; 1623; 4021; 4276; 4492; 5884
MabI	A!CCWGGT	2	2114; 3652
MaeI	C!TAG	9	592; 1298; 2711; 2912; 3330; 3886; 4901; 5235; 5488
MaeII	A!CGT	21	122; 134; 175; 258; 339; 444; 977; 1253; 1364; 1523; 1806; 2306; 2564; 3123; 3135; 3178; 3288; 4179; 4366; 5147; 5280
MaeIII	!GTNAC	16	61; 148; 497; 900; 1453; 2254; 2302; 2851; 3352; 3364; 4183; 4489; 5179; 5445; 5561; 5624
MalI	GA!TC	26	587; 985; 1135; 1161; 1335; 1681; 2212; 2700; 2709; 2722; 3902; 3906; 3925; 4236; 4314; 4395; 4404; 4482; 4858; 4874; 5233; 5245; 5323; 5331; 5342; 5417
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	5	144; 197; 466; 540; 1710
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	4	157; 240; 426; 2303
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3487; 4676
MbiI	GAG!CGG	2	3323; 4730
MboI	!GATC	26	585; 983; 1133; 1159; 1333; 1679; 2210; 2698; 2707; 2720; 3900; 3904; 3923; 4234; 4312; 4393; 4402; 4480; 4856; 4872; 5231; 5243; 5321; 5329; 5340; 5415
MboII	GAAGANNNNNNNN!	13	640; 925; 1038; 1158; 1226; 1642; 2620; 2689; 3319; 3547; 4424; 4634; 5253
MboII	!NNNNNNNTCTTC	7	1488; 1590; 1726; 4714; 4881; 5081; 5324
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2813
MflI	R!GATCY	12	585; 1159; 1333; 2698; 2707; 4234; 4480; 4872; 5231; 5243; 5329; 5340
MhII	GDGCH!C	22	676; 703; 736; 1313; 1409; 1529; 1661; 1729; 1892; 1931; 2082; 2123; 2383; 2508; 3254; 4009; 4102; 4176; 4366; 4428; 5138; 5671
MIsI	TGG!CCA	6	1279; 1370; 1442; 2149; 2446; 4145
MluI	A!CGCGT	1	2949
MluNI	TGG!CCA	6	1279; 1370; 1442; 2149; 2446; 4145
MlyI	GAGTCNNNNN!	3	908; 3115; 3547
MlyI	!NNNNNGACTC	6	404; 1322; 1474; 3122; 4728; 5605
Mly113I	GG!CGCC	1	4063
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	2	1031; 3156
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	3	1676; 5588; 5772
MnII	CCTCNNNNNNN!	20	782; 961; 976; 1059; 1192; 1303; 1800; 1915; 1999; 2058; 2153; 2270; 2426; 2782; 3846; 4664; 4870; 5184; 5554; 5878
MnII	!NNNNNGAGG	31	541; 663; 702; 723; 756; 873; 982; 1038; 1227; 1260; 1465; 1648; 1953; 2490; 2565; 2592; 2631; 2661; 2679; 2742; 3207; 3538; 3816; 3859; 3874; 3914; 3978; 4114; 4471; 4901; 5804

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Mph1103I	ATGCA!T	3	3635; 3707; 6038
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1324
MroNI	G!CCGGC	3	3280; 4563; 4846
MroXI	GAANN!NNTTC	1	1776
MscI	TGG!CCA	6	1279; 1370; 1442; 2149; 2446; 4145
MseI	T!TAA	19	7; 638; 863; 1319; 2021; 2764; 2825; 2946; 2967; 2978; 2990; 3001; 3018; 3116; 3387; 5206; 5220; 5225; 5277
MslI	CAYNN!NNRTG	6	365; 613; 652; 1057; 2425; 4500
MspI	C!CGG	22	601; 1193; 1325; 1530; 1730; 2705; 3281; 3968; 4045; 4067; 4095; 4226; 4316; 4383; 4564; 4839; 4847; 4939; 5413; 5603; 5629; 5776
Msp20I	TGG!CCA	6	1279; 1370; 1442; 2149; 2446; 4145
MspA1I	CMG!CKG	6	1072; 1879; 3561; 4169; 5398; 5643
MspCI	C!TTAAG	0	
MspJI	CNNRNNNNNNNNN!	308	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 613; 632; 646; 660; 678; 708; 726; 741; 756; 774; 807; 822; 850; 865; 889; 902; 918; 936; 950; 966; 979; 993; 1014; 1027; 1048; 1067; 1081; 1095; 1113; 1126; 1143; 1164; 1183; 1197; 1224; 1242; 1262; 1276; 1292; 1309; 1324; 1337; 1351; 1375; 1388; 1409; 1428; 1443; 1456; 1470; 1520; 1534; 1560; 1588; 1605; 1618; 1632; 1652; 1665; 1686; 1702; 1720; 1734; 1750; 1768; 1787; 1806; 1824; 1839; 1852; 1869; 1887; 1904; 1918; 1935; 1959; 1993; 2010; 2027; 2041; 2076; 2094; 2107; 2123; 2141; 2158; 2173; 2186; 2200; 2219; 2234; 2249; 2273; 2289; 2311; 2326; 2358; 2376; 2395; 2424; 2443; 2459; 2481; 2496; 2513; 2530; 2552; 2571; 2601; 2615; 2635; 2706; 2723; 2736; 2751; 2770; 2787; 2800; 2841; 2855; 2868; 2886; 2924; 2939; 2957; 2998; 3022; 3042; 3060; 3081; 3104; 3136; 3151; 3173; 3191; 3204; 3225; 3242; 3255; 3268; 3284; 3297; 3327; 3342; 3367; 3385; 3398; 3413; 3437; 3451; 3475; 3500; 3516; 3554; 3570; 3609; 3623; 3637; 3665; 3681; 3695; 3709; 3738; 3751; 3772; 3781; 3803; 3833; 3849; 3867; 3897; 3920; 3944; 3968; 3987; 4015; 4041; 4057; 4070; 4093; 4107; 4127; 4140; 4154; 4173; 4187; 4200; 4216; 4231; 4244; 4260; 4275; 4291; 4316; 4335; 4351; 4364; 4377; 4395; 4409; 4423; 4439; 4461; 4477; 4496; 4518; 4534; 4557; 4576; 4590; 4606; 4620; 4640; 4656; 4669; 4691; 4724; 4738; 4758; 4771; 4785; 4839; 4852; 4875; 4888; 4907; 4924; 4951; 4987; 5020; 5039; 5064; 5085; 5112; 5125; 5142; 5156; 5171; 5187; 5247; 5272; 5288; 5310; 5323; 5337; 5368; 5382; 5407; 5425; 5440; 5453; 5472; 5485; 5500; 5529; 5548; 5566; 5591; 5606; 5625; 5641; 5660; 5678; 5694; 5708; 5727; 5754; 5777; 5799; 5818; 5833; 5846; 5863; 5883; 5910; 5923; 5942; 5967; 5990; 6004; 6017; 6034
MspJI	!NNNNNNNNNNNNYNG	253	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; 625; 652; 682; 706; 724; 748; 767; 789; 829; 850; 876; 896; 925; 967; 1001; 1022; 1042; 1069; 1087; 1104; 1122; 1150; 1171; 1190; 1216; 1238; 1261; 1284; 1310; 1329; 1349; 1369; 1387; 1409; 1429; 1452; 1485; 1504; 1522; 1560; 1579; 1608; 1634; 1656; 1676; 1696; 1716; 1733; 1753; 1780; 1799; 1822; 1844; 1873; 1909; 1933; 1955; 1976; 2019; 2050; 2068; 2092; 2115; 2132; 2156; 2174; 2208; 2227; 2247; 2268; 2285; 2338; 2356; 2373; 2398; 2417; 2434; 2451; 2482; 2506; 2527; 2545; 2575; 2599; 2621; 2642; 2659; 2681; 2715; 2744; 2773; 2815; 2898; 2936; 2960; 2983; 3012; 3056; 3078; 3110; 3146; 3163; 3184; 3221; 3241; 3258; 3275; 3310; 3328; 3346; 3363; 3387; 3409; 3436; 3464; 3490; 3528; 3549; 3566; 3584; 3607; 3628; 3656; 3679; 3700; 3718; 3739; 3756; 3779; 3803; 3823; 3841; 3863; 3894; 3916; 3942; 3961; 3978; 4006; 4025; 4044; 4062; 4080; 4101; 4123; 4147; 4180; 4200; 4218; 4239; 4265; 4292; 4309; 4326; 4343; 4369; 4391; 4413; 4431; 4451; 4470; 4492; 4530; 4550; 4574; 4594; 4614; 4641; 4665; 4698; 4717; 4745; 4767; 4796; 4824; 4849; 4868; 4887; 4908; 4925; 4942; 4973; 5000; 5020; 5043; 5063; 5100; 5117; 5136; 5162; 5182; 5221; 5248; 5267; 5285; 5322; 5340; 5381; 5399; 5425; 5442; 5474; 5503; 5531; 5552; 5575; 5594; 5615; 5633; 5650; 5668; 5694; 5715; 5735; 5755; 5773; 5794; 5820; 5837; 5856; 5875; 5904; 5923; 5941; 5960; 5978; 5996; 6019

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspR9I	CC!NGG	32	90; 283; 796; 844; 940; 955; 1084; 1193; 1372; 1417; 1530; 1531; 1867; 1924; 2116; 2432; 2443; 2502; 2512; 3599; 3654; 3671; 4067; 4227; 4450; 4840; 5029; 5132; 5604; 5822; 5835; 5956
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2813
MvaI	CC!WGG	25	90; 283; 796; 844; 940; 955; 1084; 1372; 1417; 1867; 1924; 2116; 2432; 2443; 2502; 2512; 3599; 3654; 3671; 4450; 5029; 5132; 5822; 5835; 5956
Mva1269I	GAATGCN!	1	2814
Mva1269I	G!CATTC	1	2907
MvnI	CG!CG	15	60; 2951; 2987; 3363; 3383; 3407; 3438; 4129; 4430; 4868; 4952; 5015; 5084; 5357; 5938
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	36	90; 212; 244; 283; 376; 400; 657; 1088; 1397; 1589; 2033; 2155; 2179; 2335; 2387; 2474; 2545; 3290; 3320; 3347; 3389; 3630; 3702; 3753; 3832; 4054; 4138; 4161; 4300; 4423; 4506; 4773; 4960; 5164; 5363; 5935
NaeI	GCC!GGC	3	3282; 4565; 4848
NarI	GG!CGCC	1	4063
NciI	CC!SGG	7	1193; 1530; 1531; 4067; 4227; 4840; 5604
NcoI	C!CATGG	5	360; 611; 2265; 3792; 4495
NdeI	CA!TATG	2	234; 2154
NdeII	!GATC	26	585; 983; 1133; 1159; 1333; 1679; 2210; 2698; 2707; 2720; 3900; 3904; 3923; 4234; 4312; 4393; 4402; 4480; 4856; 4872; 5231; 5243; 5321; 5329; 5340; 5415
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	740
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	776
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	3280; 4563; 4846
NheI	G!CTAGC	1	591
NlaIII	CATG!	29	304; 364; 615; 651; 657; 669; 747; 813; 893; 1104; 1803; 1950; 2191; 2269; 2280; 2472; 3493; 3633; 3705; 3796; 3937; 4282; 4468; 4499; 4525; 4881; 5265; 5985; 6036
NlaIV	GGN!NCC	25	467; 675; 735; 1126; 1553; 1584; 2079; 2120; 2312; 2380; 2429; 2700; 3218; 3239; 3251; 3442; 3603; 3675; 4064; 4099; 4947; 5026; 5071; 5914; 5953
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	5	1641; 2076; 2895; 3210; 4802
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 1000; 5874
Nli3877I	CYCGR!G	3	1341; 1533; 1656
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3852; 4288
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1016; 3817
NmeDI	RCCGGYNNNNNNN!	6	612; 1741; 3292; 4394; 4575; 4858
NmeDI	!NNNNNNNNNNNNRCCGGY	6	587; 1716; 3267; 4369; 4550; 4833
NmuCI	!GTSAC	7	900; 1453; 2254; 2302; 3352; 4183; 4489
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4165
NsiI	ATGCA!T	3	3635; 3707; 6038
NspI	RCATG!Y	6	651; 2472; 3633; 3705; 4468; 5985
NspV	TT!CGAA	1	4745
OliI	CACNN!NNGTG	2	613; 2425
PabI	GTA!C	13	220; 245; 300; 333; 384; 541; 665; 815; 1067; 2297; 2454; 2564; 4370
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	2472; 3633; 3705; 4468
PaeR7I	C!TCGAG	1	1337
PagI	T!CATGA	2	3489; 5261
PaIAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	843; 5028; 5131
PauI	G!CGCGC	0	
PceI	AGG!CCT	3	1048; 2500; 3884
PciI	A!CATGT	1	5981
PciSI	GCTCTTCN!	1	1603
PciSI	!NNNNGAAGAGC	3	623; 4407; 4617
Pcsi	WCGNNNN!NNNCGW	7	1262; 4357; 4434; 4677; 4751; 5144; 5662



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PctI	GAATGCN!	1	2814
PctI	G!CATTC	1	2907
PdiI	GCC!GGC	3	3282; 4565; 4848
PdmI	GAANN!NNTTC	1	1776
PfeI	G!AWTC	8	749; 1226; 2653; 4548; 4682; 4792; 4829; 6007
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	4181
PfIMI	CCANNNN!NTGG	1	2370
PfoI	T!CCNGGA	2	953; 4838
PhoI	GG!CC	34	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1370; 1442; 1963; 2149; 2446; 2500; 2602; 3029; 3171; 3826; 3832; 3841; 3884; 3971; 4145; 4536; 4563; 5072; 5129; 5162; 5507; 5941; 5959; 5970
PinAI	A!CCGGT	2	600; 1729
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	1	4444
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	2510; 4009; 4264
PleI	GAGTCNNNN!	3	907; 3114; 3546
PleI	!NNNNNGACTC	6	404; 1322; 1474; 3122; 4728; 5605
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	1524
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	1	1524
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	3145
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	5275
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	5307
PpiI	!NNNNNNNGAACNNNNNCTC	1	3113
PpsI	GAGTCNNNN!	3	907; 3114; 3546
PpsI	!NNNNNGACTC	6	404; 1322; 1474; 3122; 4728; 5605
Ppu10I	A!TGCAT	3	3631; 3703; 6034
Ppu21I	YAC!GTR	5	340; 1524; 2565; 3179; 4367
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	5981
PshAI	GACN!NNGTC	2	1252; 1976
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2846; 3051
Psp03I	GGWC!C	4	1701; 2517; 4582; 5027
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	25	88; 281; 794; 842; 938; 953; 1082; 1370; 1415; 1865; 1922; 2114; 2430; 2441; 2500; 2510; 3597; 3652; 3669; 4448; 5027; 5130; 5820; 5833; 5954
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1409
PspCI	CAC!GTG	1	1524
PspEI	G!GTNACC	0	
PspGI	!CCWGG	25	88; 281; 794; 842; 938; 953; 1082; 1370; 1415; 1865; 1922; 2114; 2430; 2441; 2500; 2510; 3597; 3652; 3669; 4448; 5027; 5130; 5820; 5833; 5954
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	25	467; 675; 735; 1126; 1553; 1584; 2079; 2120; 2312; 2380; 2429; 2700; 3218; 3239; 3251; 3442; 3603; 3675; 4064; 4099; 4947; 5026; 5071; 5914; 5953
PspOMI	G!GGCCC	0	
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	4	125; 2028; 3793; 4792
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	4195
PspPI	G!GNCC	15	83; 276; 769; 1012; 1104; 1125; 1698; 2514; 2601; 3170; 4579; 5024; 5070; 5128; 5161
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	4	1884; 3616; 3688; 5194
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	5	864; 1292; 2481; 3529; 4724
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	5164
PstI	CTGCA!G	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PstNI	CAGNNN!CTG	3	1286; 5164; 5572
PsuI	R!GATCY	12	585; 1159; 1333; 2698; 2707; 4234; 4480; 4872; 5231; 5243; 5329; 5340
PsyI	GACN!NNGTC	1	4181
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1879; 3561; 4169
RcaI	T!CATGA	2	3489; 5261
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	4578
RceI	!NNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	3	1572; 1930; 2792
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	13	219; 244; 299; 332; 383; 540; 664; 814; 1066; 2296; 2453; 2563; 4369
RsaNI	G!TAC	13	218; 243; 298; 331; 382; 539; 663; 813; 1065; 2295; 2452; 2562; 4368
RseI	CAYNN!NNRTG	6	365; 613; 652; 1057; 2425; 4500
RsrII	CG!GWCCG	1	4579
Rsr2I	CG!GWCCG	1	4579
SacI	GAGCT!C	1	1409
SacII	CCGC!GG	0	
SaI	G!TCGAC	0	
SapI	GCTCTTCN!	1	1603
SapI	!NNNNGAAGAGC	3	623; 4407; 4617
SaqAI	T!TAA	19	7; 638; 863; 1319; 2021; 2764; 2825; 2946; 2967; 2978; 2990; 3001; 3018; 3116; 3387; 5206; 5220; 5225; 5277
SatI	GC!NGC	39	768; 819; 963; 1080; 1261; 1612; 1637; 2286; 2330; 2358; 2618; 2840; 3359; 3381; 3395; 3833; 3972; 4024; 4035; 4125; 4130; 4167; 4208; 4295; 4298; 4301; 4537; 4633; 4674; 4688; 4802; 5141; 5156; 5367; 5573; 5576; 5641; 5784; 5939
Sau96I	G!GNCC	15	83; 276; 769; 1012; 1104; 1125; 1698; 2514; 2601; 3170; 4579; 5024; 5070; 5128; 5161
Sau3AI	!GATC	26	585; 983; 1133; 1159; 1333; 1679; 2210; 2698; 2707; 2720; 3900; 3904; 3923; 4234; 4312; 4393; 4402; 4480; 4856; 4872; 5231; 5243; 5321; 5329; 5340; 5415
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	908; 3115; 3547
SchI	!NNNNNGACTC	6	404; 1322; 1474; 3122; 4728; 5605
SciI	CTC!GAG	1	1339
ScrFI	CC!NGG	32	90; 283; 796; 844; 940; 955; 1084; 1193; 1372; 1417; 1530; 1531; 1867; 1924; 2116; 2432; 2443; 2502; 2512; 3599; 3654; 3671; 4067; 4227; 4450; 4840; 5029; 5132; 5604; 5822; 5835; 5956
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	7	1050; 1118; 1238; 3641; 3713; 3882; 5824
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	2	4218; 4703
SdeOSI	GACNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNGTC	0	
SdeOSI	TCAYNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	22	676; 703; 736; 1313; 1409; 1529; 1661; 1729; 1892; 1931; 2082; 2123; 2383; 2508; 3254; 4009; 4102; 4176; 4366; 4428; 5138; 5671
SelI	!CGCG	15	58; 2949; 2985; 3361; 3381; 3405; 3436; 4127; 4428; 4866; 4950; 5013; 5082; 5355; 5936

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SetI	ASST!	91	125; 137; 178; 261; 308; 342; 447; 552; 568; 635; 662; 758; 808; 829; 980; 1115; 1133; 1184; 1252; 1256; 1271; 1295; 1367; 1409; 1495; 1526; 1588; 1598; 1616; 1691; 1715; 1762; 1792; 1809; 1841; 1871; 1881; 1991; 2011; 2021; 2096; 2117; 2198; 2309; 2399; 2444; 2453; 2463; 2531; 2567; 2645; 2753; 2774; 2783; 2795; 2844; 3011; 3126; 3138; 3181; 3218; 3268; 3291; 3415; 3563; 3658; 3851; 3964; 4092; 4171; 4182; 4254; 4325; 4369; 4629; 4775; 4819; 5150; 5181; 5240; 5283; 5426; 5447; 5546; 5683; 5698; 5717; 5729; 5773; 5819; 5870
SexAI	A!CCWGGT	2	2114; 3652
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	12	857; 1361; 1436; 2141; 2369; 2411; 2879; 3642; 3714; 4362; 4426; 4701
SfaNI	!NNNNNNNNNGATGC	10	357; 1010; 1049; 1178; 1436; 1623; 4021; 4276; 4492; 5884
SfcI	C!TRYAG	5	1880; 2201; 3398; 5525; 5716
SfiI	GGCCNNNN!NGGCC	1	3838
SfoI	GGC!GCC	1	4064
Sfr274I	C!TCGAG	1	1337
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	1	4745
SgeI	CNNGNNNNNNNNN!	238	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 660; 678; 708; 732; 750; 765; 807; 822; 855; 889; 902; 930; 951; 966; 993; 1027; 1048; 1068; 1081; 1095; 1113; 1126; 1143; 1176; 1197; 1231; 1269; 1292; 1310; 1337; 1351; 1375; 1388; 1409; 1428; 1443; 1463; 1520; 1534; 1560; 1592; 1605; 1618; 1634; 1664; 1686; 1702; 1722; 1742; 1758; 1787; 1806; 1839; 1852; 1870; 1935; 1959; 2002; 2049; 2076; 2094; 2118; 2141; 2158; 2173; 2200; 2234; 2253; 2273; 2289; 2311; 2364; 2399; 2424; 2443; 2460; 2481; 2513; 2532; 2553; 2571; 2601; 2615; 2635; 2717; 2770; 2799; 2841; 2924; 2962; 2998; 3082; 3104; 3136; 3173; 3191; 3210; 3225; 3267; 3284; 3301; 3336; 3350; 3367; 3389; 3413; 3437; 3502; 3516; 3554; 3570; 3610; 3623; 3642; 3665; 3682; 3695; 3714; 3744; 3765; 3782; 3805; 3840; 3867; 3898; 3920; 3946; 3968; 3987; 4015; 4051; 4070; 4093; 4107; 4127; 4140; 4154; 4173; 4187; 4206; 4238; 4252; 4265; 4291; 4322; 4335; 4352; 4369; 4383; 4400; 4418; 4433; 4461; 4477; 4496; 4518; 4534; 4557; 4576; 4601; 4620; 4640; 4667; 4691; 4724; 4743; 4771; 4785; 4851; 4875; 4890; 4913; 4934; 4951; 4999; 5026; 5040; 5069; 5093; 5126; 5143; 5163; 5176; 5189; 5247; 5274; 5293; 5323; 5348; 5368; 5382; 5407; 5425; 5462; 5500; 5529; 5557; 5571; 5591; 5606; 5627; 5641; 5660; 5678; 5694; 5734; 5754; 5781; 5799; 5820; 5833; 5846; 5863; 5887; 5910; 5942; 5967; 5994; 6016
SgeI	!NNNNNNNNNNNNCNG	209	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 634; 652; 682; 706; 724; 748; 781; 829; 863; 904; 925; 967; 1001; 1022; 1042; 1069; 1087; 1108; 1129; 1150; 1171; 1205; 1243; 1266; 1284; 1311; 1331; 1349; 1369; 1387; 1409; 1429; 1494; 1515; 1534; 1566; 1592; 1612; 1638; 1660; 1696; 1716; 1761; 1780; 1813; 1844; 1909; 1933; 1976; 2023; 2050; 2068; 2092; 2115; 2132; 2174; 2208; 2227; 2247; 2268; 2285; 2338; 2373; 2398; 2417; 2434; 2455; 2487; 2506; 2527; 2545; 2575; 2609; 2691; 2744; 2773; 2815; 2898; 2936; 2972; 3056; 3078; 3110; 3147; 3165; 3184; 3241; 3258; 3275; 3310; 3328; 3348; 3368; 3387; 3411; 3476; 3528; 3584; 3616; 3639; 3656; 3688; 3718; 3739; 3756; 3779; 3814; 3841; 3872; 3894; 3920; 3942; 3961; 3989; 4025; 4044; 4067; 4088; 4106; 4123; 4147; 4180; 4212; 4239; 4265; 4296; 4326; 4343; 4369; 4392; 4413; 4435; 4455; 4475; 4492; 4531; 4550; 4575; 4594; 4614; 4641; 4665; 4698; 4717; 4745; 4767; 4825; 4849; 4868; 4887; 4908; 4925; 4973; 5000; 5020; 5043; 5067; 5100; 5117; 5137; 5163; 5221; 5248; 5267; 5297; 5322; 5342; 5381; 5399; 5436; 5474; 5503; 5531; 5552; 5580; 5601; 5634; 5652; 5708; 5728; 5755; 5773; 5794; 5820; 5837; 5861; 5884; 5916; 5941; 5968; 5990; 6019
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 3210; 4997; 5790

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SimI	!GACCC	5	106; 2256; 4491; 5059; 5307
SinI	G!GWCC	4	1698; 2514; 4579; 5024
SlaI	C!TCGAG	1	1337
SmaI	CCC!GGG	1	1531
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	6	365; 613; 652; 1057; 2425; 4500
SmlI	C!TYRAG	7	1183; 1337; 2623; 4454; 5336; 5613; 5875
SmoI	C!TYRAG	7	1183; 1337; 2623; 4454; 5336; 5613; 5875
SmuI	CCCGCNNNN!	11	93; 119; 286; 1077; 1179; 2137; 3385; 3740; 3761; 4957; 5089
SmuI	!NNNNNNGCGGG	6	1114; 3316; 4186; 4723; 4861; 5008
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	2472; 3633; 3705; 4468
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	13	18; 1320; 1703; 2101; 2813; 2877; 2955; 2981; 2992; 3639; 3711; 3803; 5221
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	3	1048; 2500; 3884
SsiI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 932; 1070; 1172; 1590; 2025; 2130; 3378; 3381; 3395; 3485; 3733; 3745; 3754; 3766; 3776; 3787; 3833; 3972; 4035; 4537; 4582; 4648; 4674; 4799; 4802; 4950; 5082; 5389; 5533; 6029
SsiI	G!CGG	26	370; 403; 528; 767; 1079; 1121; 3323; 3350; 3438; 3548; 4129; 4193; 4294; 4297; 4577; 4632; 4730; 4868; 5015; 5155; 5398; 5643; 5764; 5783; 5910; 5938
SspI	AAT!ATT	2	2971; 3524
SspDI	G!GCGCC	1	4062
SspD5I	GGTGANNNNNNNN!	8	376; 1005; 2259; 2314; 2581; 2683; 5134; 5250
SspD5I	!NNNNNNNNNTCACC	6	893; 1778; 1898; 2204; 3179; 4240
SstI	GAGCT!C	1	1409
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	938
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	24	92; 118; 285; 860; 1076; 1178; 1199; 1442; 1536; 1659; 2136; 2610; 3262; 3384; 3739; 3760; 4073; 4476; 4615; 4686; 4956; 5088; 5318; 5756
Sth132I	!NNNNNNNNCGGG	22	15; 407; 470; 909; 1113; 1499; 1522; 3263; 3315; 3416; 4143; 4185; 4218; 4722; 4831; 4860; 5007; 5111; 5142; 5595; 5639; 5847
Sth302II	CC!GG	22	602; 1194; 1326; 1531; 1731; 2706; 3282; 3969; 4046; 4068; 4096; 4227; 4317; 4384; 4565; 4840; 4848; 4940; 5414; 5604; 5630; 5777
StrI	C!TCGAG	1	1337
StsI	GGATGNNNNNNNNNN!	5	2590; 3931; 4388; 4413; 4867
StsI	!NNNNNNNNNNNNNNNCATCC	10	689; 777; 834; 989; 1344; 1413; 1887; 2118; 2346; 3735
StuI	AGG!CCT	3	1048; 2500; 3884
StyI	C!CWWGG	8	360; 611; 2265; 2447; 3792; 3885; 4495; 4900
StyD4I	!CCNGG	32	88; 281; 794; 842; 938; 953; 1082; 1191; 1370; 1415; 1528; 1529; 1865; 1922; 2114; 2430; 2441; 2500; 2510; 3597; 3652; 3669; 4065; 4225; 4448; 4838; 5027; 5130; 5602; 5820; 5833; 5954
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	17	76; 198; 269; 543; 581; 678; 1560; 2299; 2424; 3154; 4443; 4559; 4667; 4990; 5481; 5951; 6022
TaiI	ACGT!	21	125; 137; 178; 261; 342; 447; 980; 1256; 1367; 1526; 1809; 2309; 2567; 3126; 3138; 3181; 3291; 4182; 4369; 5150; 5283
TaqI	T!CGA	17	761; 788; 1256; 1338; 1991; 1997; 3212; 3903; 4176; 4332; 4356; 4392; 4554; 4745; 4790; 5045; 5883
TaqII	GACCGANNNNNNNNNN!	4	1715; 3083; 4100; 4768
TaqII	!NNNNNNNNNTCGGTC	1	5012
TaqII	CACCCANNNNNNNNNN!	3	751; 856; 1927
TaqII	!NNNNNNNNNTGGGTG	4	172; 2557; 3967; 4559
TasI	!AATT	13	18; 1320; 1703; 2101; 2813; 2877; 2955; 2981; 2992; 3639; 3711; 3803; 5221
TatI	W!GTACW	5	217; 297; 330; 381; 662

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TauI	GCSG!C	17	770; 1082; 3383; 3397; 3835; 3974; 4037; 4132; 4297; 4300; 4539; 4635; 4676; 4804; 5158; 5786; 5941
TfiI	G!AWTC	8	749; 1226; 2653; 4548; 4682; 4792; 4829; 6007
TliI	C!TCGAG	1	1337
TruII	T!TAA	19	7; 638; 863; 1319; 2021; 2764; 2825; 2946; 2967; 2978; 2990; 3001; 3018; 3116; 3387; 5206; 5220; 5225; 5277
Tru9I	T!TAA	19	7; 638; 863; 1319; 2021; 2764; 2825; 2946; 2967; 2978; 2990; 3001; 3018; 3116; 3387; 5206; 5220; 5225; 5277
TscAI	CASTGNN!	12	1506; 1584; 1729; 2061; 2391; 2427; 2563; 2909; 4192; 5302; 5573; 5586
TseI	G!CWGC	22	818; 962; 1260; 1611; 1636; 2285; 2329; 2357; 2617; 2839; 3358; 4023; 4124; 4166; 4207; 4300; 4687; 5140; 5366; 5572; 5575; 5640
TsoI	TARCCANNNNNNNNNNN!	3	2050; 3035; 3382
TsoI	!NNNNNNNNNTGGYTA	3	787; 2840; 4592
Tsp45I	!GTSAC	7	900; 1453; 2254; 2302; 3352; 4183; 4489
Tsp509I	!AATT	13	18; 1320; 1703; 2101; 2813; 2877; 2955; 2981; 2992; 3639; 3711; 3803; 5221
TspDTI	ATGAANNNNNNNNNNN!	6	670; 1583; 2204; 2821; 4122; 4826
TspDTI	!NNNNNNNNNTTCAT	7	26; 798; 819; 1935; 4540; 4996; 5203
TspEI	!AATT	13	18; 1320; 1703; 2101; 2813; 2877; 2955; 2981; 2992; 3639; 3711; 3803; 5221
TspGWI	ACGGANNNNNNNNNNN!	1	4938
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1529
TspRI	CASTGNN!	12	1506; 1584; 1729; 2061; 2391; 2427; 2563; 2909; 4192; 5302; 5573; 5586
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	4181
Tth111II	CAARCANNNNNNNNNNN!	2	1534; 5390
Tth111II	!NNNNNNNNNTGYTTG	5	1528; 2210; 4498; 5358; 5397
UnbI	!GGNCC	15	82; 275; 768; 1011; 1103; 1124; 1697; 2513; 2600; 3169; 4578; 5023; 5069; 5127; 5160
Van9II	CCANNNN!NTGG	1	2370
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	3	699; 1725; 5667
VpaK11AI	!GWCC	4	1697; 2513; 4578; 5023
VpaK11BI	G!GWCC	4	1698; 2514; 4579; 5024
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	2	2446; 2626
XapI	R!AATTY	5	1703; 2101; 2877; 2981; 2992
XbaI	T!CTAGA	1	2710
XceI	RCATG!Y	6	651; 2472; 3633; 3705; 4468; 5985
XcmI	CCANNNNN!NNNTGG	1	1762
XhoI	C!TCGAG	1	1337
XhoII	R!GATCY	12	585; 1159; 1333; 2698; 2707; 4234; 4480; 4872; 5231; 5243; 5329; 5340
XmaI	C!CCGGG	1	1529
XmaJI	C!CTAGG	2	3885; 4900
XmiI	GT!MKAC	3	1199; 1544; 1952
XmnI	GAANN!NNTTC	1	1776
XspI	C!TAG	9	592; 1298; 2711; 2912; 3330; 3886; 4901; 5235; 5488
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3635; 3707; 6038