

pPhi-Yellow-mito vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1611; 1816
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1899; 2855; 4644
AatI	AGG!CCT	1	2649
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	0	
AccII	CG!CG	22	60; 662; 664; 793; 1024; 1063; 1348; 1378; 1477; 1752; 2128; 2148; 2172; 2203; 2894; 3195; 3633; 3717; 3780; 3849; 4122; 4703
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2930
Acc36I	ACCTGCNNNN!	2	3096; 3546
Acc36I	!NNNNNNNNGCAGGT	1	2715
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	6	465; 714; 903; 1981; 2827; 2862
AccB7I	CCANNNN!NTGG	2	680; 1106
AccBSI	CCG!CTC	2	2252; 3441
AccBSI	GAG!CGG	2	2088; 3495
AceIII	CAGCTCNNNNNNN!	1	1784
AceIII	!NNNNNNNNNNGAGCTG	3	552; 921; 941
AciI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 612; 660; 791; 1022; 1346; 1391; 1475; 2143; 2146; 2160; 2250; 2498; 2510; 2519; 2531; 2541; 2552; 2598; 2737; 2800; 3302; 3347; 3413; 3439; 3564; 3567; 3715; 3847; 4154; 4298; 4794
AciI	G!CGG	29	370; 403; 528; 623; 647; 712; 793; 1270; 1273; 2088; 2115; 2203; 2313; 2894; 2958; 3059; 3062; 3342; 3397; 3495; 3633; 3780; 3920; 4163; 4408; 4529; 4548; 4675; 4703
AcI	AA!CGTT	0	
AcIWI	GGATCNNNN!	8	694; 2696; 3007; 3253; 3645; 4004; 4102; 4188
AcIWI	!NNNNNGATCC	9	580; 665; 681; 731; 1438; 3072; 3616; 4003; 4100
AcoI	Y!GGCCR	9	773; 1076; 1097; 1237; 1472; 2734; 2908; 3299; 3326
AcsI	R!AATY	3	1642; 1746; 1757
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	5	957; 1200; 1383; 2974; 3406
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	767; 4204
AcvI	CAC!GTG	3	1103; 1286; 1316
AcyI	GR!CGYC	10	122; 175; 258; 444; 609; 715; 904; 2828; 3530; 3609
AdeI	CACNNN!GTG	1	1944
AfaI	GT!AC	11	219; 244; 299; 332; 383; 540; 924; 1056; 1149; 1296; 3134
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	23	49; 680; 746; 797; 871; 1028; 1106; 1269; 1840; 2166; 2558; 2809; 3353; 3634; 3666; 3798; 3833; 3883; 3915; 4268; 4547; 4713; 4731
AfIII	C!TTAAG	1	1710
AfIII	A!CRYGT	1	4746
AgeI	A!CCGGT	1	692
AgsI	TTS!AA	9	1016; 1088; 1127; 1193; 2239; 2283; 2293; 2706; 4282
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	14	88; 281; 870; 880; 1078; 2362; 2417; 2434; 3213; 3792; 3895; 4585; 4598; 4719
AjuI	GAANNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNTTC	0	
AjuI	CCAANNNNNNTTCNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	882
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	2	2402; 2474
AlfI	!NNNNNNNNNGCANNNNNTGC	2	2368; 2440
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	1910
AloI	!NNNNNNNGGANNNNNNGTTC	1	822
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	1	854
AloI	!NNNNNNNGAACNNNNNTCC	1	1878
AluI	AG!CT	20	566; 935; 955; 1070; 1309; 1322; 1411; 1420; 1425; 1607; 1774; 2031; 2326; 2614; 2934; 3392; 4189; 4446; 4492; 4582
AluBI	AG!CT	20	566; 935; 955; 1070; 1309; 1322; 1411; 1420; 1425; 1607; 1774; 2031; 2326; 2614; 2934; 3392; 4189; 4446; 4492; 4582
AlwI	GGATCNNNN!	8	694; 2696; 3007; 3253; 3645; 4004; 4102; 4188
AlwI	!NNNNNGATCC	9	580; 665; 681; 731; 1438; 3072; 3616; 4003; 4100
Alw21I	GWGCW!C	5	879; 1285; 2941; 3131; 4436
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1362; 2252; 2670; 3689; 3817
Alw44I	G!TGCAC	2	1281; 4432
AlwNI	CAGNNN!CTG	2	3929; 4337
Ama87I	C!YCGRG	2	930; 1290
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	3	2396; 2468; 3930
ApaLI	G!TGCAC	2	1281; 4432
ApeKI	G!CWGC	20	614; 617; 620; 709; 955; 1048; 1216; 1604; 2123; 2788; 2889; 2931; 2972; 3065; 3452; 3905; 4131; 4337; 4340; 4405
ApoI	R!AATTY	3	1642; 1746; 1757
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3343
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3137; 3790; 4628
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3227
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	904
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2656
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	3398
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 671; 687; 737; 1161; 1196; 1208; 1242; 1341; 1444; 1486; 2666; 2670; 2689; 3000; 3078; 3159; 3168; 3246; 3622; 3638; 3997; 4009; 4087; 4095; 4106; 4181
AsiGI	A!CCGGT	1	692
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2946
Asp700I	GAANN!NNTTC	1	942
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	2650; 3665
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	29	664; 666; 717; 906; 985; 1026; 1188; 1378; 1380; 2094; 2102; 2128; 2150; 2159; 2172; 2203; 2822; 2830; 2894; 2931; 3197; 3457; 3633; 3719; 4122; 4231; 4405; 4505; 4572
AspS9I	G!GNCC	11	83; 276; 641; 927; 1275; 1935; 3344; 3789; 3835; 3893; 3926
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	3510
AsuC2I	CC!SGG	5	644; 2832; 2992; 3605; 4369
AsuHPI	GGTGANNNNNNNN!	5	376; 896; 1043; 3899; 4015
AsuHPI	!NNNNNNNTCACC	6	983; 1124; 1202; 1335; 1945; 3006
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	930; 1290
AvaII	G!GWCC	2	3344; 3789
AviII	TGC!GCA	1	2930
AvrII	C!CTAGG	2	2650; 3665

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AxyI	CC!TNAGG	2	2308; 3940
BaeI	ACNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI:C	7	865; 871; 1285; 1291; 2774; 2867; 4436
BalI	TGG!CCA	4	775; 1078; 1099; 2910
BamHI	G!GATCC	1	686
BanI	G!GYRCC	6	465; 714; 903; 1981; 2827; 2862
BanII	GRGCY!C	3	2019; 3193; 3903
BanIII	AT!CGAT	1	2668
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	962
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	930
BasI	CCANNNN!NTGG	2	680; 1106
BauI	C!ACGAG	3	1203; 3546; 4573
BauI	C!TCGTG	1	3420
BbeI	GGCGC!C	3	718; 907; 2831
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	3	1103; 1286; 1316
BbsI	GAAGACNN!	0	
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	4	962; 2398; 2470; 3233
BbvI	GCAGCNNNNNN!	9	721; 1060; 1228; 1616; 2901; 2943; 3464; 3917; 4417
BbvI	!NNNNNNNNNNNGCTGC	8	601; 942; 2110; 2775; 2959; 3052; 4118; 4324
Bbv12I	GWGCW!C	5	879; 1285; 2941; 3131; 4436
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	7	996; 1272; 1475; 1958; 2522; 3048; 3550
BccI	!NNNNNGATGG	8	749; 765; 960; 999; 1089; 1926; 2706; 3134
BceAI	ACGGCNNNNNNNNNN!	7	746; 821; 917; 941; 1190; 3254; 3741
BceAI	!NNNNNNNNNNNGCCGT	4	1365; 1969; 2787; 4246
BceFI	ACGGCNNNNNNNNNN!	7	746; 821; 917; 941; 1190; 3254; 3741
BceFI	!NNNNNNNNNNNGCCGT	4	1366; 1970; 2788; 4247
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	2257; 3047; 4548
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	5	644; 2832; 2992; 3605; 4369
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	4681
BdaI	!NNNNNNNNNTGANNNNNTCA	1	4647
BfaI	C!TAG	8	592; 1483; 1677; 2095; 2651; 3666; 4000; 4253
BfiI	ACTGGGNNNN!	1	2777
BfiI	!NNNCCCAGT	5	289; 648; 830; 902; 2529
BfmI	C!TRYAG	3	2163; 4290; 4481
BfoI	RGCGC!Y	7	718; 907; 1189; 2095; 2103; 2831; 4506
BfrI	C!TTAAG	1	1710
BfuI	GTATCCNNNNN!	3	2257; 3047; 4548
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3096; 3546
BfuAI	!NNNNNNNGCAGGT	1	2715
BfuCI	!GATC	27	585; 670; 686; 736; 1160; 1195; 1207; 1241; 1340; 1443; 1485; 2665; 2669; 2688; 2999; 3077; 3158; 3167; 3245; 3621; 3637; 3996; 4008; 4086; 4094; 4105; 4180
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2603
BglII	A!GATCT	1	1195

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BisI	GC!NGC	42	612; 615; 618; 621; 648; 660; 713; 794; 956; 1049; 1217; 1271; 1274; 1391; 1475; 1605; 2124; 2146; 2160; 2598; 2737; 2789; 2800; 2890; 2895; 2932; 2973; 3060; 3066; 3302; 3398; 3439; 3453; 3567; 3906; 3921; 4132; 4338; 4341; 4406; 4549; 4704
BlnI	C!CTAGG	2	2650; 3665
BlpI	GC!TNAGC	2	1323; 1421
BlsI	GCN!GC	42	613; 616; 619; 622; 649; 661; 714; 795; 957; 1050; 1218; 1272; 1275; 1392; 1476; 1606; 2125; 2147; 2161; 2599; 2738; 2790; 2801; 2891; 2896; 2933; 2974; 3061; 3067; 3303; 3399; 3440; 3454; 3568; 3907; 3922; 4133; 4339; 4342; 4407; 4550; 4705
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	3344; 3789
Bme1390I	CC!NGG	19	90; 283; 644; 872; 882; 1080; 2364; 2419; 2436; 2832; 2992; 3215; 3605; 3794; 3897; 4369; 4587; 4600; 4721
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	930; 1290
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	84; 277; 642; 928; 1276; 1936; 3345; 3790; 3836; 3894; 3927
BmiI	GGN!NCC	20	467; 651; 688; 716; 905; 929; 1277; 1983; 2004; 2016; 2207; 2368; 2440; 2829; 2864; 3712; 3791; 3836; 4679; 4718
BmrI	ACTGGGNNNNN!	1	2777
BmrI	!NNNNCCCAGT	5	289; 648; 830; 902; 2529
BmrFI	CC!NGG	19	90; 283; 644; 872; 882; 1080; 2364; 2419; 2436; 2832; 2992; 3215; 3605; 3794; 3897; 4369; 4587; 4600; 4721
BmsI	GCATCNNNNN!	7	796; 1644; 2407; 2479; 3127; 3191; 3466
BmsI	!NNNNNNNNNGATGC	7	357; 800; 821; 2786; 3041; 3257; 4649
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2777
BmuI	!NNNNCCCAGT	5	289; 648; 830; 902; 2529
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNCTCNNNNNNNNNNNN!	2	2617; 3516
BpI	!NNNNNNNGAGNNNNNCTC	2	2585; 3484
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	893; 1140; 3668
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	3611
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	3510
Bpu1102I	GC!TNAGC	2	1323; 1421
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4122; 4661
BpuEI	!NNNNNNNNNNNNNNCTCAAG	2	3204; 4363
BpuMI	CC!SGG	5	644; 2832; 2992; 3605; 4369
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1362; 3817
Bsa29I	AT!CGAT	1	2668
BsaAI	YAC!GTR	8	340; 746; 974; 1103; 1286; 1316; 1944; 3132
BsaBI	GATNN!NNATC	2	1490; 2687
BsaHI	GR!CGYC	10	122; 175; 258; 444; 609; 715; 904; 2828; 3530; 3609
BsaJI	C!CNNGG	20	360; 728; 791; 870; 880; 1027; 1079; 1381; 2362; 2434; 2557; 2592; 2601; 2650; 2991; 3260; 3665; 3793; 3896; 4586
BsaMI	GAATGCN!	1	1579
BsaMI	G!CATTC	1	1672
BsaWI	W!CCGGW	5	692; 2859; 3703; 4393; 4540
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1908
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1878
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	2	1829; 3736

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Bsc4I	CCNNNNN!NNGG	23	49; 680; 746; 797; 871; 1028; 1106; 1269; 1840; 2166; 2558; 2809; 3353; 3634; 3666; 3798; 3833; 3883; 3915; 4268; 4547; 4713; 4731
BscAI	GCATCNNNN!	7	795; 1643; 2406; 2478; 3126; 3190; 3465
BscAI	!NNNNNNGATGC	7	360; 803; 824; 2789; 3044; 3260; 4652
BseI	ACTGGN!	3	2772; 2973; 4219
BseI	C!CAGT	9	295; 654; 836; 908; 1447; 1857; 2535; 4331; 4344
Bse8I	GATNN!NNATC	2	1490; 2687
Bse21I	CC!TNAGG	2	2308; 3940
Bse18I	R!CCGGY	7	692; 852; 1212; 2045; 3147; 3328; 3611
BseAI	T!CCGGA	0	
BseBI	CC!WGG	14	90; 283; 872; 882; 1080; 2364; 2419; 2436; 3215; 3794; 3897; 4587; 4600; 4721
BseCI	AT!CGAT	1	2668
BseDI	C!CNNGG	20	360; 728; 791; 870; 880; 1027; 1079; 1381; 2362; 2434; 2557; 2592; 2601; 2650; 2991; 3260; 3665; 3793; 3896; 4586
Bse3DI	GCAATGNN!	2	770; 3061
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	8	776; 836; 1100; 1337; 2688; 3145; 3170; 3624
BseGI	!CATCC	2	787; 2514
BseJ	GATNN!NNATC	2	1490; 2687
BseLI	CCNNNNN!NNGG	23	49; 680; 746; 797; 871; 1028; 1106; 1269; 1840; 2166; 2558; 2809; 3353; 3634; 3666; 3798; 3833; 3883; 3915; 4268; 4547; 4713; 4731
BseMI	GCAATGNN!	2	770; 3061
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	1472; 3954
BseMII	!NNNNNNNNNCTGAG	7	1314; 1412; 2299; 2601; 3482; 4054; 4463
BseNI	ACTGGN!	3	2772; 2973; 4219
BseNI	C!CAGT	9	295; 654; 836; 908; 1447; 1857; 2535; 4331; 4344
BsePI	G!CGCGC	2	662; 1376
BseRI	GAGGAGNNNNNNNNNN!	1	2646
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	7	865; 871; 1285; 1291; 2774; 2867; 4436
BseXI	GCAGCNNNNNNNN!	9	721; 1060; 1228; 1616; 2901; 2943; 3464; 3917; 4417
BseXI	!NNNNNNNNNNNNGCTGC	8	601; 942; 2110; 2775; 2959; 3052; 4118; 4324
BseX3I	C!GGCCG	1	2734
BseYI	C!CCAGC	3	2371; 2443; 4442
BseYI	G!CTGGG	2	1106; 3332
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	996
BsgI	!NNNNNNNNNNNNNNNCTGCAC	1	830
Bsh1236I	CG!CG	22	60; 662; 664; 793; 1024; 1063; 1348; 1378; 1477; 1752; 2128; 2148; 2172; 2203; 2894; 3195; 3633; 3717; 3780; 3849; 4122; 4703
Bsh1285I	CGRY!CG	3	697; 2737; 4412
BshFI	GG!CC	29	84; 277; 642; 775; 928; 1078; 1099; 1167; 1177; 1239; 1276; 1474; 1794; 1936; 2591; 2597; 2606; 2649; 2736; 2910; 3301; 3328; 3837; 3894; 3927; 4272; 4706; 4724; 4735
BshNI	G!GYRCC	6	465; 714; 903; 1981; 2827; 2862
BshTI	A!CCGGT	1	692
BshVI	AT!CGAT	1	2668
BsiEI	CGRY!CG	3	697; 2737; 4412
BsiHKAI	GWGCW!C	5	879; 1285; 2941; 3131; 4436
BsiHKCI	C!YCGRG	2	930; 1290
BsiSI	C!CGG	20	644; 693; 853; 1213; 2046; 2733; 2810; 2832; 2860; 2991; 3081; 3148; 3329; 3604; 3612; 3704; 4178; 4368; 4394; 4541
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	23	49; 680; 746; 797; 871; 1028; 1106; 1269; 1840; 2166; 2558; 2809; 3353; 3634; 3666; 3798; 3833; 3883; 3915; 4268; 4547; 4713; 4731
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2979; 3511; 3620
BsIFI	!NNNNNNNNNNNNNNGTCCC	4	2344; 2416; 2480; 3775
BsmI	GAATGCN!	1	1579
BsmI	G!CATTC	1	1672
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	1362; 2252; 2670; 3689; 3817

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BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2979; 3511; 3620
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2344; 2416; 2480; 3775
BsnI	GG!CC	29	84; 277; 642; 775; 928; 1078; 1099; 1167; 1177; 1239; 1276; 1474; 1794; 1936; 2591; 2597; 2606; 2649; 2736; 2910; 3301; 3328; 3837; 3894; 3927; 4272; 4706; 4724; 4735
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACG	2	1362; 3817
BsoBI	C!YCGRG	2	930; 1290
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	360; 2557; 3260
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3631
Bsp24I	!NNNNNNCCANNNNNGTC	2	4052; 4230
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4084; 4262
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3599
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	3510
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	27	585; 670; 686; 736; 1160; 1195; 1207; 1241; 1340; 1443; 1485; 2665; 2669; 2688; 2999; 3077; 3158; 3167; 3245; 3621; 3637; 3996; 4008; 4086; 4094; 4105; 4180
Bsp1286I	GDGCH!C	13	865; 871; 879; 1285; 1291; 2019; 2774; 2867; 2941; 3131; 3193; 3903; 4436
Bsp1407I	T!GTACA	2	1054; 1147
Bsp1720I	GC!TNAGC	2	1323; 1421
BspACI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 612; 660; 791; 1022; 1346; 1391; 1475; 2143; 2146; 2160; 2250; 2498; 2510; 2519; 2531; 2541; 2552; 2598; 2737; 2800; 3302; 3347; 3413; 3439; 3564; 3567; 3715; 3847; 4154; 4298; 4794
BspACI	G!CGG	29	370; 403; 528; 623; 647; 712; 793; 1270; 1273; 2088; 2115; 2203; 2313; 2894; 2958; 3059; 3062; 3342; 3397; 3495; 3633; 3780; 3920; 4163; 4408; 4529; 4548; 4675; 4703
BspCNI	CTCAGNNNNNNNN!	2	1471; 3953
BspCNI	!NNNNNNCTGAG	7	1315; 1413; 2300; 2602; 3483; 4055; 4464
BspDI	AT!CGAT	1	2668
BspD6I	GACTCNNNN!	6	418; 1438; 1487; 1901; 3507; 4384
BspD6I	!NNNNNGAGTC	2	1864; 2296
BspEI	T!CCGGA	0	
BspFNI	CG!CG	22	60; 662; 664; 793; 1024; 1063; 1348; 1378; 1477; 1752; 2128; 2148; 2172; 2203; 2894; 3195; 3633; 3717; 3780; 3849; 4122; 4703
BspHI	T!CATGA	2	2254; 4026
BspLI	GGN!NCC	20	467; 651; 688; 716; 905; 929; 1277; 1983; 2004; 2016; 2207; 2368; 2440; 2829; 2864; 3712; 3791; 3836; 4679; 4718
BspMI	ACCTGCNNNN!	2	3096; 3546
BspMI	!NNNNNNNGCAGGT	1	2715
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	694; 2696; 3007; 3253; 3645; 4004; 4102; 4188
BspPI	!NNNNNGATCC	9	580; 665; 681; 731; 1438; 3072; 3616; 4003; 4100
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	1176; 3172; 3382
BspTI	C!TTAAG	1	1710
BspT104I	TT!CGAA	1	3510
BspT107I	G!GYRCC	6	465; 714; 903; 1981; 2827; 2862
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1362; 3817
BsrI	ACTGGN!	3	2772; 2973; 4219
BsrI	C!CAGT	9	295; 654; 836; 908; 1447; 1857; 2535; 4331; 4344
BsrBI	CCG!CTC	2	2252; 3441
BsrBI	GAG!CGG	2	2088; 3495
BsrDI	GCAATGNN!	2	770; 3061
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	692; 852; 1212; 2045; 3147; 3328; 3611
BsrGI	T!GTACA	2	1054; 1147
BsrSI	ACTGGN!	3	2772; 2973; 4219

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	C!CAGT	9	295; 654; 836; 908; 1447; 1857; 2535; 4331; 4344
BssAI	R!CCGGY	7	692; 852; 1212; 2045; 3147; 3328; 3611
BssECI	C!CNNGG	20	360; 728; 791; 870; 880; 1027; 1079; 1381; 2362; 2434; 2557; 2592; 2601; 2650; 2991; 3260; 3665; 3793; 3896; 4586
BssHII	G!CGCGC	2	662; 1376
BssKI	!CCNGG	19	88; 281; 642; 870; 880; 1078; 2362; 2417; 2434; 2830; 2990; 3213; 3603; 3792; 3895; 4367; 4585; 4598; 4719
BssMI	!GATC	27	585; 670; 686; 736; 1160; 1195; 1207; 1241; 1340; 1443; 1485; 2665; 2669; 2688; 2999; 3077; 3158; 3167; 3245; 3621; 3637; 3996; 4008; 4086; 4094; 4105; 4180
BssNI	GR!CGYC	10	122; 175; 258; 444; 609; 715; 904; 2828; 3530; 3609
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1203; 3546; 4573
BssSI	C!TCGTG	1	3420
BssTII	C!CWWGG	5	360; 2557; 2650; 3260; 3665
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	1176; 2295; 3172; 3382
Bst98I	C!TTAAG	1	1710
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	10	122; 175; 258; 444; 609; 715; 904; 2828; 3530; 3609
BstAFI	C!TTAAG	1	1710
BstAPI	GCANNNN!NTGC	3	2395; 2467; 3929
BstAUI	T!GTACA	2	1054; 1147
BstBI	TT!CGAA	1	3510
Bst2BI	C!ACGAG	3	1203; 3546; 4573
Bst2BI	C!TCGTG	1	3420
BstBAI	YAC!GTR	8	340; 746; 974; 1103; 1286; 1316; 1944; 3132
Bst4CI	ACN!GT	14	76; 198; 269; 543; 581; 1373; 1919; 3208; 3324; 3432; 3755; 4246; 4716; 4787
BstC8I	GCN!NGC	31	86; 279; 593; 664; 815; 960; 1378; 2047; 2090; 2104; 2377; 2396; 2449; 2468; 2722; 2908; 3127; 3193; 3199; 3231; 3272; 3276; 3330; 3613; 3800; 3847; 3903; 3925; 4136; 4696; 4733
BstDEI	C!TNAG	9	1323; 1421; 1458; 2308; 2610; 3491; 3940; 4063; 4472
BstDSI	C!CRYGG	6	360; 728; 791; 1381; 2557; 3260
BstEII	G!GTNACC	2	884; 1031
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	8	776; 836; 1100; 1337; 2688; 3145; 3170; 3624
BstF5I	!CATCC	2	787; 2514
BstFNI	CG!CG	22	60; 662; 664; 793; 1024; 1063; 1348; 1378; 1477; 1752; 2128; 2148; 2172; 2203; 2894; 3195; 3633; 3717; 3780; 3849; 4122; 4703
BstH2I	RGCGC!Y	7	718; 907; 1189; 2095; 2103; 2831; 4506
BstHHI	GCG!C	29	664; 666; 717; 906; 985; 1026; 1188; 1378; 1380; 2094; 2102; 2128; 2150; 2159; 2172; 2203; 2822; 2830; 2894; 2931; 3197; 3457; 3633; 3719; 4122; 4231; 4405; 4505; 4572
BstKTI	GAT!C	27	588; 673; 689; 739; 1163; 1198; 1210; 1244; 1343; 1446; 1488; 2668; 2672; 2691; 3002; 3080; 3161; 3170; 3248; 3624; 3640; 3999; 4011; 4089; 4097; 4108; 4183
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	5	1362; 2252; 2670; 3689; 3817
BstMBI	!GATC	27	585; 670; 686; 736; 1160; 1195; 1207; 1241; 1340; 1443; 1485; 2665; 2669; 2688; 2999; 3077; 3158; 3167; 3245; 3621; 3637; 3996; 4008; 4086; 4094; 4105; 4180
BstMCI	CGRY!CG	3	697; 2737; 4412
BstMWI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 617; 634; 656; 793; 814; 853; 910; 1183; 1222; 1417; 2055; 2085; 2112; 2154; 2395; 2467; 2518; 2597; 2819; 2903; 2926; 3065; 3188; 3271; 3538; 3725; 3929; 4128; 4700
BstNI	CC!WGG	14	90; 283; 872; 882; 1080; 2364; 2419; 2436; 3215; 3794; 3897; 4587; 4600; 4721
BstNSI	RCATG!Y	6	599; 962; 2398; 2470; 3233; 4750
BstOI	CC!WGG	14	90; 283; 872; 882; 1080; 2364; 2419; 2436; 3215; 3794; 3897; 4587; 4600; 4721
BstPI	G!GTNACC	2	884; 1031
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	19	88; 281; 642; 870; 880; 1078; 2362; 2417; 2434; 2830; 2990; 3213; 3603; 3792; 3895; 4367; 4585; 4598; 4719

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSFI	C!TRYAG	3	2163; 4290; 4481
BstSLI	GKGCMI!C	7	865; 871; 1285; 1291; 2774; 2867; 4436
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	22	60; 662; 664; 793; 1024; 1063; 1348; 1378; 1477; 1752; 2128; 2148; 2172; 2203; 2894; 3195; 3633; 3717; 3780; 3849; 4122; 4703
Bst2UI	CC!WGG	14	90; 283; 872; 882; 1080; 2364; 2419; 2436; 3215; 3794; 3897; 4587; 4600; 4721
BstV1I	GCAGCNNNNNNNN!	9	721; 1060; 1228; 1616; 2901; 2943; 3464; 3917; 4417
BstV1I	!NNNNNNNNNNNGCTGC	8	601; 942; 2110; 2775; 2959; 3052; 4118; 4324
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 670; 686; 736; 1195; 1443; 2999; 3245; 3637; 3996; 4008; 4094; 4105
BstYI	R!GATCY	13	585; 670; 686; 736; 1195; 1443; 2999; 3245; 3637; 3996; 4008; 4094; 4105
BstZI	C!GGCCG	1	2734
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2257; 3047; 4548
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2668
Bsu36I	CC!TNAGG	2	2308; 3940
BsuRI	GG!CC	29	84; 277; 642; 775; 928; 1078; 1099; 1167; 1177; 1239; 1276; 1474; 1794; 1936; 2591; 2597; 2606; 2649; 2736; 2910; 3301; 3328; 3837; 3894; 3927; 4272; 4706; 4724; 4735
BsuTUI	AT!CGAT	1	2668
BtgI	C!CRYGG	6	360; 728; 791; 1381; 2557; 3260
BtgZI	GCGATGNNNNNNNNNN!	5	823; 871; 1018; 1945; 3280
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3099; 3443
BthCI	GCNG!C	42	614; 617; 620; 623; 650; 662; 715; 796; 958; 1051; 1219; 1273; 1276; 1393; 1477; 1607; 2126; 2148; 2162; 2600; 2739; 2791; 2802; 2892; 2897; 2934; 2975; 3062; 3068; 3304; 3400; 3441; 3455; 3569; 3908; 3923; 4134; 4340; 4343; 4408; 4551; 4706
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	1139; 1667
BtsCI	GGATGNN!	8	776; 836; 1100; 1337; 2688; 3145; 3170; 3624
BtsCI	!CATCC	2	787; 2514
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3096; 3546
BveI	!NNNNNNNNNGCAGGT	1	2715
Cac8I	GCN!NGC	31	86; 279; 593; 664; 815; 960; 1378; 2047; 2090; 2104; 2377; 2396; 2449; 2468; 2722; 2908; 3127; 3193; 3199; 3231; 3272; 3276; 3330; 3613; 3800; 3847; 3903; 3925; 4136; 4696; 4733
CaiI	CAGNNN!CTG	2	3929; 4337
CciI	T!CATGA	2	2254; 4026
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 1235; 1268; 3117; 3122; 3320; 3461
CdiI	C!GATG	6	809; 857; 965; 1004; 1931; 3266
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4700
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2489; 2531
CelII	GC!TNAGC	2	1323; 1421
CfoI	GCG!C	29	664; 666; 717; 906; 985; 1026; 1188; 1378; 1380; 2094; 2102; 2128; 2150; 2159; 2172; 2203; 2822; 2830; 2894; 2931; 3197; 3457; 3633; 3719; 4122; 4231; 4405; 4505; 4572
CfrI	Y!GGCCR	9	773; 1076; 1097; 1237; 1472; 2734; 2908; 3299; 3326
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	7	692; 852; 1212; 2045; 3147; 3328; 3611
Cfr13I	G!GNCC	11	83; 276; 641; 927; 1275; 1935; 3344; 3789; 3835; 3893; 3926
Cfr42I	CCGC!GG	1	794
ChaI	GATC!	27	589; 674; 690; 740; 1164; 1199; 1211; 1245; 1344; 1447; 1489; 2669; 2673; 2692; 3003; 3081; 3162; 3171; 3249; 3625; 3641; 4000; 4012; 4090; 4098; 4109; 4184
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	5	1164; 2645; 4085; 4185; 4263

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjeI	!NNNNNNNNNACNNNNNTGG	8	64; 257; 1454; 2312; 2407; 3599; 4149; 4704
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	8	98; 291; 1488; 2346; 2441; 3633; 4183; 4738
CjeI	!NNNNNNNNCCANNNNNGT	5	1130; 2611; 4051; 4151; 4229
CjePI	CCANNNNNTCNNNNNNNNNNNNNN!	2	4085; 4263
CjePI	!NNNNNNNGGANNNNNNNTGG	4	257; 1058; 3599; 4198
CjePI	GANNNNNTGGNNNNNNNNNNNNNN!	4	290; 1091; 3632; 4231
CjePI	!NNNNNNCCANNNNNNNTC	2	4052; 4230
ClaI	AT!CGAT	1	2668
CpoI	CG!GWCCG	1	3344
CseI	GACGCNNNNN!	4	526; 617; 3538; 3617
CseI	!NNNNNNNNNGCGTC	3	2161; 4056; 4634
CsiI	A!CCWGGT	1	2417
CspI	CG!GWCCG	1	3344
Csp6I	G!TAC	11	218; 243; 298; 331; 382; 539; 923; 1055; 1148; 1295; 3133
Csp45I	TT!CGAA	1	3510
CspAI	A!CCGGT	1	692
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1390; 2108; 3717
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	19	301; 361; 596; 704; 959; 1304; 2255; 2395; 2467; 2558; 2699; 3044; 3230; 3261; 3287; 3643; 4027; 4747; 4798
CviJI	RG!CY	96	42; 84; 93; 277; 566; 628; 637; 642; 650; 775; 802; 928; 935; 955; 970; 1070; 1078; 1084; 1099; 1167; 1177; 1239; 1276; 1309; 1322; 1360; 1411; 1420; 1425; 1474; 1497; 1607; 1774; 1794; 1936; 2017; 2031; 2045; 2326; 2367; 2439; 2562; 2591; 2597; 2606; 2614; 2637; 2649; 2655; 2736; 2753; 2761; 2788; 2813; 2897; 2906; 2910; 2934; 2972; 3048; 3065; 3084; 3147; 3191; 3201; 3218; 3301; 3328; 3332; 3369; 3392; 3408; 3588; 3615; 3676; 3798; 3837; 3894; 3901; 3908; 3927; 3938; 4189; 4218; 4261; 4272; 4337; 4416; 4441; 4446; 4492; 4582; 4680; 4706; 4724; 4735
CviKI-1	RG!CY	96	42; 84; 93; 277; 566; 628; 637; 642; 650; 775; 802; 928; 935; 955; 970; 1070; 1078; 1084; 1099; 1167; 1177; 1239; 1276; 1309; 1322; 1360; 1411; 1420; 1425; 1474; 1497; 1607; 1774; 1794; 1936; 2017; 2031; 2045; 2326; 2367; 2439; 2562; 2591; 2597; 2606; 2614; 2637; 2649; 2655; 2736; 2753; 2761; 2788; 2813; 2897; 2906; 2910; 2934; 2972; 3048; 3065; 3084; 3147; 3191; 3201; 3218; 3301; 3328; 3332; 3369; 3392; 3408; 3588; 3615; 3676; 3798; 3837; 3894; 3901; 3908; 3927; 3938; 4189; 4218; 4261; 4272; 4337; 4416; 4441; 4446; 4492; 4582; 4680; 4706; 4724; 4735
CviQI	G!TAC	11	218; 243; 298; 331; 382; 539; 923; 1055; 1148; 1295; 3133
DdeI	C!TNAG	9	1323; 1421; 1458; 2308; 2610; 3491; 3940; 4063; 4472
DinI	GGC!GCC	3	716; 905; 2829
DpnI	GA!TC	27	587; 672; 688; 738; 1162; 1197; 1209; 1243; 1342; 1445; 1487; 2667; 2671; 2690; 3001; 3079; 3160; 3169; 3247; 3623; 3639; 3998; 4010; 4088; 4096; 4107; 4182
DpnII	!GATC	27	585; 670; 686; 736; 1160; 1195; 1207; 1241; 1340; 1443; 1485; 2665; 2669; 2688; 2999; 3077; 3158; 3167; 3245; 3621; 3637; 3996; 4008; 4086; 4094; 4105; 4180
DraI	TTT!AAA	3	1530; 3972; 3991
DraII	RG!GNCCY	1	3926
DraIII	CACNNN!GTG	1	1944
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 946; 4308
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTT	0	
DrdI	GACNNN!NNGTC	3	1899; 2855; 4644
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1899; 2855; 4644
EaeI	Y!GGCCR	9	773; 1076; 1097; 1237; 1472; 2734; 2908; 3299; 3326
EagI	C!GGCCG	1	2734
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	1176; 2295; 3172; 3382
Eam1105I	GACNNN!NNGTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	4	1176; 2295; 3172; 3382
EciI	GGCGANNNNNNNNNN!	4	2328; 3357; 4544; 4690
EciI	!NNNNNNNNNTCCGCC	4	496; 2499; 2520; 2541
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	1	2734
Eco24I	GRGCY!C	3	2019; 3193; 3903
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1362; 3817
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3344; 3789
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	1	2734
Eco57I	CTGAAGNNNNNNNNNNNN!	5	957; 1200; 1383; 2974; 3406
Eco57I	!NNNNNNNNNNNNNCTTCAG	2	767; 4204
Eco72I	CAC!GTG	3	1103; 1286; 1316
Eco81I	CC!TNAGG	2	2308; 3940
Eco88I	C!YCGRG	2	930; 1290
Eco91I	G!GTNACC	2	884; 1031
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	5	360; 2557; 2650; 3260; 3665
Eco147I	AGG!CCT	1	2649
EcoHI	!CCSGG	5	642; 2830; 2990; 3603; 4367
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNN!	8	893; 957; 1140; 1200; 1383; 2974; 3406; 3668
Eco57MI	!NNNNNNNNNNNNNCTYCAG	3	767; 3611; 4204
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	2	884; 1031
Eco0109I	RG!GNCCY	1	3926
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	14	88; 281; 870; 880; 1078; 2362; 2417; 2434; 3213; 3792; 3895; 4585; 4598; 4719
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	360; 2557; 2650; 3260; 3665
EcoT22I	ATGCA!T	3	2400; 2472; 4803
EcoT38I	GRGCY!C	3	2019; 3193; 3903
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	3	716; 905; 2829
EheI	GGC!GCC	3	716; 905; 2829
ErhI	C!CWWGG	5	360; 2557; 2650; 3260; 3665
EsaBC3I	TC!GA	13	998; 1040; 1978; 2669; 2942; 3098; 3122; 3158; 3320; 3511; 3556; 3811; 4649
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	19	304; 364; 599; 707; 962; 1307; 2258; 2398; 2470; 2561; 2702; 3047; 3233; 3264; 3290; 3646; 4030; 4750; 4801
FaiI	YA!TR	56	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 597; 705; 960; 1305; 1356; 1490; 1500; 1566; 1611; 1816; 2244; 2256; 2387; 2396; 2459; 2468; 2492; 2559; 2583; 2700; 2764; 3045; 3070; 3231; 3262; 3288; 3360; 3576; 3644; 3722; 3774; 3935; 3952; 3954; 3956; 4028; 4306; 4495; 4611; 4684; 4748; 4799
FaiI	AAGNNNNNCTNNNNNNNNNN!	2	1205; 3168
FaiI	!NNNNNNNNAAGNNNNNCTT	2	1173; 3136
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2979; 3511; 3620
FaqI	!NNNNNNNNNNNNNGTCCC	4	2344; 2416; 2480; 3775
FatI	!CATG	19	300; 360; 595; 703; 958; 1303; 2254; 2394; 2466; 2557; 2698; 3043; 3229; 3260; 3286; 3642; 4026; 4746; 4797
FauI	CCCGCNNNN!	9	93; 119; 286; 1029; 2150; 2505; 2526; 3722; 3854
FauI	!NNNNNNGCGGG	6	616; 2081; 2951; 3488; 3626; 3773
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	0	
FmuI	GGNC!C	11	86; 279; 644; 930; 1278; 1938; 3347; 3792; 3838; 3896; 3929

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	42	612; 615; 618; 621; 648; 660; 713; 794; 956; 1049; 1217; 1271; 1274; 1391; 1475; 1605; 2124; 2146; 2160; 2598; 2737; 2789; 2800; 2890; 2895; 2932; 2973; 3060; 3066; 3302; 3398; 3439; 3453; 3567; 3906; 3921; 4132; 4338; 4341; 4406; 4549; 4704
FokI	GGATGNNNNNNNNN!	8	783; 843; 1107; 1344; 2695; 3152; 3177; 3631
FokI	!NNNNNNNNNNNNNNCATCC	2	774; 2501
FriOI	GRGCY!C	3	2019; 3193; 3903
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2930
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1483; 1677; 2095; 2651; 3666; 4000; 4253
FspEI	CCNNNNNNNNNNNN!	164	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 656; 673; 687; 703; 731; 753; 789; 804; 827; 848; 863; 877; 893; 911; 932; 976; 1001; 1034; 1049; 1092; 1113; 1148; 1181; 1202; 1226; 1253; 1274; 1290; 1304; 1326; 1352; 1374; 1394; 1412; 1447; 1470; 1488; 1511; 1550; 1564; 1705; 1800; 1824; 1847; 1870; 1888; 1910; 1931; 1950; 1969; 1998; 2019; 2033; 2059; 2147; 2173; 2222; 2263; 2281; 2320; 2336; 2374; 2431; 2446; 2503; 2523; 2537; 2554; 2568; 2605; 2620; 2663; 2746; 2813; 2844; 2864; 2879; 2924; 2938; 3004; 3018; 3037; 3053; 3094; 3114; 3161; 3211; 3227; 3247; 3272; 3292; 3315; 3342; 3360; 3386; 3426; 3452; 3476; 3532; 3546; 3574; 3617; 3638; 3673; 3717; 3805; 3829; 3851; 3871; 3887; 3908; 3922; 3941; 4025; 4045; 4073; 4088; 4122; 4164; 4191; 4206; 4251; 4275; 4289; 4311; 4337; 4357; 4381; 4407; 4455; 4474; 4493; 4519; 4554; 4599; 4629; 4643; 4694; 4708; 4733; 4749; 4770; 4799
FspEI	!NNNNNNNNNNNNNNNGG	132	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 608; 629; 666; 697; 715; 735; 753; 778; 804; 838; 857; 886; 910; 952; 984; 1014; 1060; 1081; 1104; 1139; 1159; 1198; 1221; 1252; 1314; 1350; 1368; 1412; 1456; 1499; 1599; 1668; 1698; 1776; 1825; 1847; 1875; 1911; 1956; 1985; 2021; 2040; 2068; 2088; 2151; 2174; 2282; 2314; 2332; 2361; 2404; 2433; 2544; 2573; 2616; 2637; 2665; 2698; 2718; 2743; 2770; 2795; 2817; 2845; 2871; 2892; 2943; 2964; 2982; 3030; 3066; 3122; 3147; 3171; 3200; 3223; 3247; 3273; 3295; 3314; 3339; 3379; 3415; 3480; 3565; 3589; 3618; 3652; 3673; 3693; 3738; 3765; 3784; 3817; 3869; 3900; 3927; 3979; 4077; 4148; 4193; 4254; 4319; 4353; 4379; 4397; 4433; 4503; 4526; 4548; 4572; 4605; 4653; 4688; 4706; 4763
Fsp4HI	GC!NGC	42	612; 615; 618; 621; 648; 660; 713; 794; 956; 1049; 1217; 1271; 1274; 1391; 1475; 1605; 2124; 2146; 2160; 2598; 2737; 2789; 2800; 2890; 2895; 2932; 2973; 3060; 3066; 3302; 3398; 3439; 3453; 3567; 3906; 3921; 4132; 4338; 4341; 4406; 4549; 4704
GdiII	C!GGCCR	1	2734
GdiII	Y!GGCCG	5	1237; 1472; 2734; 3299; 3326
GlaI	GC!GC	29	663; 665; 716; 905; 984; 1025; 1187; 1377; 1379; 2093; 2101; 2127; 2149; 2158; 2171; 2202; 2821; 2829; 2893; 2930; 3196; 3456; 3632; 3718; 4121; 4230; 4404; 4504; 4571
Glul	GC!NGC	42	612; 615; 618; 621; 648; 660; 713; 794; 956; 1049; 1217; 1271; 1274; 1391; 1475; 1605; 2124; 2146; 2160; 2598; 2737; 2789; 2800; 2890; 2895; 2932; 2973; 3060; 3066; 3302; 3398; 3439; 3453; 3567; 3906; 3921; 4132; 4338; 4341; 4406; 4549; 4704
GsaI	CCCAG!C	3	2375; 2447; 4446
GsaI	GCTGG!G	2	1110; 3336
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	893; 1140; 3668
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3611
HaeI	WGG!CCW	9	775; 1078; 1099; 1167; 2649; 2910; 4272; 4724; 4735
HaeII	RGCG!Y	7	718; 907; 1189; 2095; 2103; 2831; 4506
HaeIII	GG!CC	29	84; 277; 642; 775; 928; 1078; 1099; 1167; 1177; 1239; 1276; 1474; 1794; 1936; 2591; 2597; 2606; 2649; 2736; 2910; 3301; 3328; 3837; 3894; 3927; 4272; 4706; 4724; 4735
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1503; 3024
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1469; 2990
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1502; 3023
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1471; 2992

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HapII	C!CGG	20	644; 693; 853; 1213; 2046; 2733; 2810; 2832; 2860; 2991; 3081; 3148; 3329; 3604; 3612; 3704; 4178; 4368; 4394; 4541
HgaI	GACGCNNNNN!	4	526; 617; 3538; 3617
HgaI	!NNNNNNNNNGCGTC	3	2161; 4056; 4634
HhaI	GCG!C	29	664; 666; 717; 906; 985; 1026; 1188; 1378; 1380; 2094; 2102; 2128; 2150; 2159; 2172; 2203; 2822; 2830; 2894; 2931; 3197; 3457; 3633; 3719; 4122; 4231; 4405; 4505; 4572
Hin1I	GR!CGYC	10	122; 175; 258; 444; 609; 715; 904; 2828; 3530; 3609
Hin1II	CATG!	19	304; 364; 599; 707; 962; 1307; 2258; 2398; 2470; 2561; 2702; 3047; 3233; 3264; 3290; 3646; 4030; 4750; 4801
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1502; 3023
Hin4I	!NNNNNNNNGABNNNNNRTC	3	1470; 2991; 3021
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1502; 3023; 3053
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	1470; 2991
Hin6I	G!CGC	29	662; 664; 715; 904; 983; 1024; 1186; 1376; 1378; 2092; 2100; 2126; 2148; 2157; 2170; 2201; 2820; 2828; 2892; 2929; 3195; 3455; 3631; 3717; 4120; 4229; 4403; 4503; 4570
HinP1I	G!CGC	29	662; 664; 715; 904; 983; 1024; 1186; 1376; 1378; 2092; 2100; 2126; 2148; 2157; 2170; 2201; 2820; 2828; 2892; 2929; 3195; 3455; 3631; 3717; 4120; 4229; 4403; 4503; 4570
HincII	GTY!RAC	1	1591
HindII	GTY!RAC	1	1591
HindIII	A!AGCTT	1	1409
HinfI	G!ANTC	14	410; 1115; 1430; 1479; 1871; 1893; 2303; 3313; 3447; 3499; 3557; 3594; 4376; 4772
HpaI	GTT!AAC	1	1591
HpaII	C!CGG	20	644; 693; 853; 1213; 2046; 2733; 2810; 2832; 2860; 2991; 3081; 3148; 3329; 3604; 3612; 3704; 4178; 4368; 4394; 4541
HphI	GGTGANNNNNNN!	5	376; 896; 1043; 3899; 4015
HphI	!NNNNNNNTCACC	6	983; 1124; 1202; 1335; 1945; 3006
Hpy8I	GTN!NAC	10	201; 539; 577; 1055; 1283; 1591; 1875; 1892; 1947; 4434
Hpy99I	CGWCG!	7	2918; 2946; 3240; 3255; 3532; 3917; 4650
Hpy166II	GTN!NAC	10	201; 539; 577; 1055; 1283; 1591; 1875; 1892; 1947; 4434
Hpy188I	TCN!GA	12	585; 1461; 2002; 2611; 2795; 3139; 3492; 3593; 4072; 4206; 4559; 4637
Hpy188III	TC!NNGA	26	605; 1016; 1040; 1088; 1119; 1193; 1483; 2255; 2307; 2620; 2673; 2846; 3162; 3171; 3254; 3310; 3354; 3444; 3477; 3546; 4027; 4101; 4184; 4282; 4380; 4514
HpyAV	CCTTCNNNNNN!	7	791; 1004; 1046; 1199; 3473; 3580; 4259
HpyAV	!NNNNNGAAGG	10	932; 1085; 1358; 2061; 2956; 3685; 3701; 3884; 4201; 4511
HpyCH4III	ACN!GT	14	76; 198; 269; 543; 581; 1373; 1919; 3208; 3324; 3432; 3755; 4246; 4716; 4787
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 745; 973; 1102; 1285; 1315; 1888; 1900; 1943; 2053; 2944; 3131; 3912; 4045
HpyCH4V	TG!CA	20	847; 958; 977; 1283; 1577; 1604; 1672; 2389; 2398; 2461; 2470; 2585; 2661; 2720; 2879; 3054; 3068; 4138; 4434; 4801
HpyF3I	C!TNAG	9	1323; 1421; 1458; 2308; 2610; 3491; 3940; 4063; 4472
HpyF10VI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 617; 634; 656; 793; 814; 853; 910; 1183; 1222; 1417; 2055; 2085; 2112; 2154; 2395; 2467; 2518; 2597; 2819; 2903; 2926; 3065; 3188; 3271; 3538; 3725; 3929; 4128; 4700
Hsp92I	GR!CGYC	10	122; 175; 258; 444; 609; 715; 904; 2828; 3530; 3609
Hsp92II	CATG!	19	304; 364; 599; 707; 962; 1307; 2258; 2398; 2470; 2561; 2702; 3047; 3233; 3264; 3290; 3646; 4030; 4750; 4801
HspAI	G!CGC	29	662; 664; 715; 904; 983; 1024; 1186; 1376; 1378; 2092; 2100; 2126; 2148; 2157; 2170; 2201; 2820; 2828; 2892; 2929; 3195; 3455; 3631; 3717; 4120; 4229; 4403; 4503; 4570
KasI	G!GCGCC	3	714; 903; 2827
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	794
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1591
Kzo9I	!GATC	27	585; 670; 686; 736; 1160; 1195; 1207; 1241; 1340; 1443; 1485; 2665; 2669; 2688; 2999; 3077; 3158; 3167; 3245; 3621; 3637; 3996; 4008; 4086; 4094; 4105; 4180
LguI	GCTCTTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LguI	!NNNNGAAGAGC	3	1176; 3172; 3382
LpnI	RGC!GCGY	7	716; 905; 1187; 2093; 2101; 2829; 4504
LpnPI	CCDGNNNNNNNNN!	64	102; 295; 618; 657; 706; 732; 827; 849; 866; 884; 906; 921; 1092; 1158; 1191; 1226; 1263; 1374; 1416; 1447; 1565; 1870; 2059; 2282; 2320; 2336; 2376; 2431; 2448; 2548; 2633; 2746; 2823; 2845; 2868; 3004; 3018; 3037; 3094; 3161; 3211; 3227; 3284; 3342; 3551; 3617; 3641; 3717; 3806; 3909; 3942; 4173; 4191; 4337; 4357; 4381; 4407; 4456; 4554; 4599; 4629; 4708; 4733; 4770
LpnPI	!NNNNNNNNNNNNNCHGG	54	75; 268; 552; 619; 678; 838; 857; 963; 1065; 1092; 1139; 1198; 1456; 1911; 2031; 2088; 2151; 2349; 2361; 2421; 2433; 2665; 2710; 2753; 2795; 2817; 2845; 2892; 2954; 2976; 3066; 3133; 3156; 3200; 3295; 3314; 3339; 3488; 3589; 3632; 3689; 3779; 3882; 3909; 3927; 4163; 4200; 4353; 4379; 4519; 4537; 4572; 4653; 4706
Lsp1109I	GCAGCNNNNNNNN!	9	721; 1060; 1228; 1616; 2901; 2943; 3464; 3917; 4417
Lsp1109I	!NNNNNNNNNNNNNGCTGC	8	601; 942; 2110; 2775; 2959; 3052; 4118; 4324
LweI	GCATCNNNNN!	7	796; 1644; 2407; 2479; 3127; 3191; 3466
LweI	!NNNNNNNNNGATGC	7	357; 800; 821; 2786; 3041; 3257; 4649
MabI	A!CCWGGT	1	2417
MaeI	C!TAG	8	592; 1483; 1677; 2095; 2651; 3666; 4000; 4253
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 745; 973; 1102; 1285; 1315; 1888; 1900; 1943; 2053; 2944; 3131; 3912; 4045
MaeIII	!GTNAC	15	61; 148; 497; 884; 1031; 1334; 1616; 2117; 2129; 2948; 3254; 3944; 4210; 4326; 4389
MalI	GA!TC	27	587; 672; 688; 738; 1162; 1197; 1209; 1243; 1342; 1445; 1487; 2667; 2671; 2690; 3001; 3079; 3160; 3169; 3247; 3623; 3639; 3998; 4010; 4088; 4096; 4107; 4182
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2252; 3441
MbiI	GAG!CGG	2	2088; 3495
MboI	!GATC	27	585; 670; 686; 736; 1160; 1195; 1207; 1241; 1340; 1443; 1485; 2665; 2669; 2688; 2999; 3077; 3158; 3167; 3245; 3621; 3637; 3996; 4008; 4086; 4094; 4105; 4180
MboII	GAAGANNNNNNNN!	6	1193; 2084; 2312; 3189; 3399; 4018
MboII	!NNNNNNNTCTTC	4	3479; 3646; 3846; 4089
McaTI	GCGC!GC	2	665; 1379
MfeI	C!AATTG	1	1578
MflI	R!GATCY	13	585; 670; 686; 736; 1195; 1443; 2999; 3245; 3637; 3996; 4008; 4094; 4105
MhlI	GDGCH!C	13	865; 871; 879; 1285; 1291; 2019; 2774; 2867; 2941; 3131; 3193; 3903; 4436
MisI	TGG!CCA	4	775; 1078; 1099; 2910
MluI	A!CGCGT	0	
MluNI	TGG!CCA	4	775; 1078; 1099; 2910
MlyI	GAGTCNNNNN!	2	1880; 2312
MlyI	!NNNNNGACTC	6	404; 1424; 1473; 1887; 3493; 4370
Mly113I	GG!CGCC	3	715; 904; 2828
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1921
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	4353; 4537
MnlI	CCTCNNNNNNN!	8	1467; 1547; 2611; 3429; 3635; 3949; 4319; 4643
MnlI	!NNNNNGAGG	16	541; 752; 992; 1022; 1507; 1972; 2303; 2581; 2624; 2639; 2679; 2743; 2879; 3236; 3666; 4569
Mph1103I	ATGCA!T	3	2400; 2472; 4803
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	2045; 3328; 3611
MroXI	GAANN!NNTTC	1	942
MscI	TGG!CCA	4	775; 1078; 1099; 2910
MseI	T!TAA	16	7; 1413; 1529; 1590; 1711; 1732; 1743; 1755; 1766; 1783; 1881; 2152; 3971; 3985; 3990; 4042
MsiI	CAYNN!NNRTG	4	365; 882; 1251; 3265
MspI	C!CGG	20	644; 693; 853; 1213; 2046; 2733; 2810; 2832; 2860; 2991; 3081; 3148; 3329; 3604; 3612; 3704; 4178; 4368; 4394; 4541
Msp20I	TGG!CCA	4	775; 1078; 1099; 2910

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspAII	CMG!CKG	7	614; 712; 793; 2326; 2934; 4163; 4408
MspCI	C!TTAAG	1	1710
MspJI	CNNRNNNNNNNNN!	245	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; 617; 636; 650; 665; 679; 705; 731; 746; 789; 804; 826; 847; 865; 878; 893; 906; 919; 932; 948; 962; 975; 990; 1010; 1028; 1052; 1074; 1091; 1113; 1131; 1150; 1166; 1180; 1205; 1225; 1247; 1261; 1275; 1290; 1303; 1316; 1335; 1351; 1373; 1389; 1404; 1424; 1438; 1459; 1472; 1488; 1501; 1516; 1535; 1552; 1565; 1606; 1620; 1633; 1651; 1689; 1704; 1722; 1763; 1787; 1807; 1825; 1846; 1869; 1901; 1916; 1938; 1956; 1969; 1990; 2007; 2020; 2033; 2049; 2062; 2092; 2107; 2132; 2150; 2163; 2178; 2202; 2216; 2240; 2265; 2281; 2319; 2335; 2374; 2388; 2402; 2430; 2446; 2460; 2474; 2503; 2516; 2537; 2546; 2568; 2598; 2614; 2632; 2662; 2685; 2709; 2733; 2752; 2780; 2806; 2822; 2835; 2858; 2872; 2892; 2905; 2919; 2938; 2952; 2965; 2981; 2996; 3009; 3025; 3040; 3056; 3081; 3100; 3116; 3129; 3142; 3160; 3174; 3188; 3204; 3226; 3242; 3261; 3283; 3299; 3322; 3341; 3355; 3371; 3385; 3405; 3421; 3434; 3456; 3489; 3503; 3523; 3536; 3550; 3604; 3617; 3640; 3653; 3672; 3689; 3716; 3752; 3785; 3804; 3829; 3850; 3877; 3890; 3907; 3921; 3936; 3952; 4012; 4037; 4053; 4075; 4088; 4102; 4133; 4147; 4172; 4190; 4205; 4218; 4237; 4250; 4265; 4294; 4313; 4331; 4356; 4371; 4390; 4406; 4425; 4443; 4459; 4473; 4492; 4519; 4542; 4564; 4583; 4598; 4611; 4628; 4648; 4675; 4688; 4707; 4732; 4755; 4769; 4782; 4799
MspJI	!NNNNNNNNNNNNYNG	206	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 591; 608; 625; 647; 667; 690; 715; 732; 753; 770; 790; 810; 830; 850; 867; 886; 906; 936; 958; 982; 1002; 1024; 1048; 1065; 1087; 1104; 1131; 1149; 1179; 1199; 1221; 1253; 1270; 1290; 1310; 1333; 1359; 1380; 1403; 1420; 1445; 1462; 1480; 1509; 1538; 1580; 1663; 1698; 1725; 1748; 1777; 1821; 1843; 1875; 1911; 1928; 1949; 1986; 2006; 2023; 2040; 2075; 2093; 2111; 2128; 2152; 2174; 2201; 2229; 2255; 2293; 2314; 2331; 2349; 2372; 2393; 2421; 2444; 2465; 2483; 2504; 2521; 2544; 2568; 2588; 2606; 2628; 2659; 2681; 2707; 2726; 2743; 2771; 2790; 2809; 2827; 2845; 2866; 2888; 2912; 2945; 2965; 2983; 3004; 3030; 3057; 3074; 3091; 3108; 3134; 3156; 3178; 3196; 3216; 3235; 3257; 3295; 3315; 3339; 3359; 3379; 3406; 3430; 3463; 3482; 3510; 3532; 3561; 3589; 3614; 3633; 3652; 3673; 3690; 3707; 3738; 3765; 3785; 3808; 3828; 3865; 3882; 3901; 3927; 3947; 3986; 4013; 4032; 4050; 4087; 4105; 4146; 4164; 4190; 4207; 4239; 4268; 4296; 4317; 4340; 4359; 4380; 4398; 4415; 4433; 4459; 4480; 4500; 4520; 4538; 4559; 4585; 4602; 4621; 4640; 4669; 4688; 4706; 4725; 4743; 4761; 4784
MspR9I	CC!NGG	19	90; 283; 644; 872; 882; 1080; 2364; 2419; 2436; 2832; 2992; 3215; 3605; 3794; 3897; 4369; 4587; 4600; 4721
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	1578
MvaI	CC!WGG	14	90; 283; 872; 882; 1080; 2364; 2419; 2436; 3215; 3794; 3897; 4587; 4600; 4721
Mva1269I	GAATGCN!	1	1579
Mva1269I	G!CATTC	1	1672
MvnI	CG!CG	22	60; 662; 664; 793; 1024; 1063; 1348; 1378; 1477; 1752; 2128; 2148; 2172; 2203; 2894; 3195; 3633; 3717; 3780; 3849; 4122; 4703
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 617; 634; 656; 793; 814; 853; 910; 1183; 1222; 1417; 2055; 2085; 2112; 2154; 2395; 2467; 2518; 2597; 2819; 2903; 2926; 3065; 3188; 3271; 3538; 3725; 3929; 4128; 4700
NaeI	GCC!GGC	3	2047; 3330; 3613
NarI	GG!CGCC	3	715; 904; 2828
NciI	CC!SGG	5	644; 2832; 2992; 3605; 4369
NcoI	C!CATGG	3	360; 2557; 3260
NdeI	CA!TATG	1	234
NdeII	!GATC	27	585; 670; 686; 736; 1160; 1195; 1207; 1241; 1340; 1443; 1485; 2665; 2669; 2688; 2999; 3077; 3158; 3167; 3245; 3621; 3637; 3996; 4008; 4086; 4094; 4105; 4180
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	2	280; 910

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	2	244; 874
NgoMIV	G!CCGGC	3	2045; 3328; 3611
NheI	G!CTAGC	1	591
NlaIII	CATG!	19	304; 364; 599; 707; 962; 1307; 2258; 2398; 2470; 2561; 2702; 3047; 3233; 3264; 3290; 3646; 4030; 4750; 4801
NlaIV	GGN!NCC	20	467; 651; 688; 716; 905; 929; 1277; 1983; 2004; 2016; 2207; 2368; 2440; 2829; 2864; 3712; 3791; 3836; 4679; 4718
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	1013; 1660; 1975; 3567
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 4639
Nli3877I	CYCGR!G	2	934; 1294
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1052; 2617; 3053
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	618; 2582
NmeDI	RCCGGYNNNNNNNN!	7	704; 864; 1224; 2057; 3159; 3340; 3623
NmeDI	!NNNNNNNNNNNNRCCGGY	7	679; 839; 1199; 2032; 3134; 3315; 3598
NmuCI	!GTSAC	6	884; 1031; 1334; 2117; 2948; 3254
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2930
NsiI	ATGCA!T	3	2400; 2472; 4803
NspI	RCATG!Y	6	599; 962; 2398; 2470; 3233; 4750
NspV	TT!CGAA	1	3510
OliI	CACNN!NNGTG	1	882
PabI	GTA!C	11	220; 245; 300; 333; 384; 541; 925; 1057; 1150; 1297; 3135
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	962; 2398; 2470; 3233
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	2	2254; 4026
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3793; 3896
PauI	G!CGCGC	2	662; 1376
PceI	AGG!CCT	1	2649
PciI	A!CATGT	1	4746
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	1176; 3172; 3382
PcsI	WCGNNNN!NNNCGW	6	3122; 3199; 3442; 3516; 3909; 4427
PctI	GAATGCN!	1	1579
PctI	G!CATTC	1	1672
PdiI	GCC!GGC	3	2047; 3330; 3613
PdmI	GAANN!NNTTC	1	942
PfeI	G!AWTC	6	1115; 3313; 3447; 3557; 3594; 4772
Pfi23II	C!GTACG	0	
PfifI	GACN!NNGTC	1	2946
PfimI	CCANNNN!NTGG	2	680; 1106
PfoI	T!CCNGGA	1	3603
PhoI	GG!CC	29	84; 277; 642; 775; 928; 1078; 1099; 1167; 1177; 1239; 1276; 1474; 1794; 1936; 2591; 2597; 2606; 2649; 2736; 2910; 3301; 3328; 3837; 3894; 3927; 4272; 4706; 4724; 4735
PinAI	A!CCGGT	1	692
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3209
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2774; 3029
PleI	GAGTCNNNN!	2	1879; 2311
PleI	!NNNNNGACTC	6	404; 1424; 1473; 1887; 3493; 4370
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	3	1103; 1286; 1316
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	3	1103; 1286; 1316
PpiI	GAACNNNNCTCNNNNNNNNNNNN!	1	1910
PpiI	!NNNNNNNGAGNNNNNGTTC	1	4040
PpiI	GAGNNNNGTTCNNNNNNNNNNNN!	1	4072
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1878
PpsI	GAGTCNNNN!	2	1879; 2311
PpsI	!NNNNNGACTC	6	404; 1424; 1473; 1887; 3493; 4370
Ppu10I	A!TGCAT	3	2396; 2468; 4799

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Ppu21I	YAC!GTR	8	340; 746; 974; 1103; 1286; 1316; 1944; 3132
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4746
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1611; 1816
Psp03I	GGWC!C	2	3347; 3792
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	14	88; 281; 870; 880; 1078; 2362; 2417; 2434; 3213; 3792; 3895; 4585; 4598; 4719
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	3	1103; 1286; 1316
PspEI	G!GTNACC	2	884; 1031
PspGI	!CCWGG	14	88; 281; 870; 880; 1078; 2362; 2417; 2434; 3213; 3792; 3895; 4585; 4598; 4719
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	20	467; 651; 688; 716; 905; 929; 1277; 1983; 2004; 2016; 2207; 2368; 2440; 2829; 2864; 3712; 3791; 3836; 4679; 4718
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	4	125; 931; 2558; 3557
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2960
PspPI	G!GNCC	11	83; 276; 641; 927; 1275; 1935; 3344; 3789; 3835; 3893; 3926
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	4	1477; 2381; 2453; 3959
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	3	1140; 2294; 3489
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3929
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	2	3929; 4337
PsuI	R!GATCY	13	585; 670; 686; 736; 1195; 1443; 2999; 3245; 3637; 3996; 4008; 4094; 4105
PsyI	GACN!NNGTC	1	2946
PteI	G!CGCGC	2	662; 1376
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2326; 2934
RcaI	T!CATGA	2	2254; 4026
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3343
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNN!	1	1557
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	1	602
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	11	219; 244; 299; 332; 383; 540; 924; 1056; 1149; 1296; 3134
RsaNI	G!TAC	11	218; 243; 298; 331; 382; 539; 923; 1055; 1148; 1295; 3133
RseI	CAYNN!NNRTG	4	365; 882; 1251; 3265
RsrII	CG!GWCCG	1	3344
Rsr2I	CG!GWCCG	1	3344
SacI	GAGCT!C	0	
SacII	CCGC!GG	1	794
SalI	G!TCGAC	0	
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	1176; 3172; 3382
SaqAI	T!TAA	16	7; 1413; 1529; 1590; 1711; 1732; 1743; 1755; 1766; 1783; 1881; 2152; 3971; 3985; 3990; 4042

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SatI	GC!NGC	42	612; 615; 618; 621; 648; 660; 713; 794; 956; 1049; 1217; 1271; 1274; 1391; 1475; 1605; 2124; 2146; 2160; 2598; 2737; 2789; 2800; 2890; 2895; 2932; 2973; 3060; 3066; 3302; 3398; 3439; 3453; 3567; 3906; 3921; 4132; 4338; 4341; 4406; 4549; 4704
Sau96I	G!GNCC	11	83; 276; 641; 927; 1275; 1935; 3344; 3789; 3835; 3893; 3926
Sau3AI	!GATC	27	585; 670; 686; 736; 1160; 1195; 1207; 1241; 1340; 1443; 1485; 2665; 2669; 2688; 2999; 3077; 3158; 3167; 3245; 3621; 3637; 3996; 4008; 4086; 4094; 4105; 4180
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1880; 2312
SchI	!NNNNNGACTC	6	404; 1424; 1473; 1887; 3493; 4370
SciI	CTC!GAG	0	
ScrFI	CC!NGG	19	90; 283; 644; 872; 882; 1080; 2364; 2419; 2436; 2832; 2992; 3215; 3605; 3794; 3897; 4369; 4587; 4600; 4721
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	1004; 2406; 2478; 2647; 4589
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	1412; 2983; 3468
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	13	865; 871; 879; 1285; 1291; 2019; 2774; 2867; 2941; 3131; 3193; 3903; 4436
SelI	!CGCG	22	58; 660; 662; 791; 1022; 1061; 1346; 1376; 1475; 1750; 2126; 2146; 2170; 2201; 2892; 3193; 3631; 3715; 3778; 3847; 4120; 4701
SetI	ASST!	71	125; 137; 178; 261; 308; 342; 447; 552; 568; 748; 783; 829; 900; 937; 957; 976; 996; 1033; 1038; 1072; 1105; 1288; 1311; 1318; 1324; 1401; 1405; 1413; 1422; 1427; 1459; 1518; 1539; 1548; 1560; 1609; 1776; 1891; 1903; 1946; 1983; 2033; 2056; 2180; 2328; 2423; 2616; 2729; 2857; 2936; 2947; 3019; 3090; 3134; 3394; 3540; 3584; 3915; 3946; 4005; 4048; 4191; 4212; 4311; 4448; 4463; 4482; 4494; 4538; 4584; 4635
SexAI	A!CCWGGT	1	2417
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	796; 1644; 2407; 2479; 3127; 3191; 3466
SfaNI	!NNNNNNNNNGATGC	7	357; 800; 821; 2786; 3041; 3257; 4649
SfcI	C!TRYAG	3	2163; 4290; 4481
SfiI	GGCCNNNN!NGGCC	1	2603
SfoI	GGC!GCC	3	716; 905; 2829
Sfr274I	C!TCGAG	0	
Sfr303I	CCGC!GG	1	794
SfuI	TT!CGAA	1	3510
SgeI	CNNGNNNNNNNN!	195	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 617; 636; 650; 666; 680; 705; 731; 746; 804; 826; 848; 865; 878; 893; 920; 942; 962; 975; 990; 1010; 1028; 1052; 1074; 1091; 1113; 1131; 1157; 1176; 1190; 1205; 1225; 1247; 1262; 1290; 1304; 1326; 1340; 1359; 1373; 1389; 1406; 1438; 1459; 1483; 1535; 1564; 1606; 1689; 1763; 1847; 1869; 1901; 1938; 1956; 1975; 1990; 2032; 2049; 2066; 2101; 2115; 2132; 2154; 2178; 2202; 2267; 2281; 2319; 2335; 2375; 2388; 2407; 2430; 2447; 2460; 2479; 2509; 2530; 2547; 2570; 2605; 2632; 2663; 2685; 2711; 2733; 2752; 2780; 2816; 2835; 2858; 2872; 2892; 2905; 2919; 2938; 2952; 2971; 3003; 3017; 3030; 3056; 3087; 3100; 3117; 3134; 3148; 3165; 3183; 3198; 3226; 3242; 3261; 3283; 3299; 3322; 3341; 3366; 3385; 3405; 3432; 3456; 3489; 3508; 3536; 3550; 3616; 3640; 3655; 3678; 3699; 3716; 3764; 3791; 3805; 3834; 3858; 3891; 3908; 3928; 3941; 3954; 4012; 4039; 4058; 4088; 4113; 4133; 4147; 4172; 4190; 4227; 4265; 4294; 4322; 4336; 4356; 4371; 4392; 4406; 4425; 4443; 4459; 4499; 4519; 4546; 4564; 4585; 4598; 4611; 4628; 4652; 4675; 4707; 4732; 4759; 4781

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	169	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 610; 629; 647; 679; 705; 732; 778; 800; 822; 839; 857; 879; 906; 936; 960; 984; 1002; 1026; 1048; 1065; 1087; 1105; 1131; 1150; 1179; 1199; 1221; 1264; 1290; 1314; 1333; 1359; 1380; 1412; 1433; 1457; 1509; 1538; 1580; 1663; 1737; 1821; 1843; 1875; 1912; 1930; 1949; 2006; 2023; 2040; 2075; 2093; 2113; 2133; 2152; 2176; 2241; 2293; 2349; 2381; 2404; 2421; 2453; 2483; 2504; 2521; 2544; 2579; 2606; 2637; 2659; 2685; 2707; 2726; 2754; 2790; 2809; 2832; 2853; 2871; 2888; 2912; 2945; 2977; 3004; 3030; 3061; 3091; 3108; 3134; 3157; 3178; 3200; 3220; 3240; 3257; 3296; 3315; 3340; 3359; 3379; 3406; 3430; 3463; 3482; 3510; 3532; 3590; 3614; 3633; 3652; 3673; 3690; 3738; 3765; 3785; 3808; 3832; 3865; 3882; 3902; 3928; 3986; 4013; 4032; 4062; 4087; 4107; 4146; 4164; 4201; 4239; 4268; 4296; 4317; 4345; 4366; 4399; 4417; 4473; 4493; 4520; 4538; 4559; 4585; 4602; 4626; 4649; 4681; 4706; 4733; 4755; 4784
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	1	852
SgrBI	CCGC!GG	1	794
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1975; 3762; 4555
SimI	!GACCC	5	106; 1018; 3256; 3824; 4072
SinI	G!GWCC	2	3344; 3789
Slal	C!TCGAG	0	
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	365; 882; 1251; 3265
SmlI	C!TYRAG	5	1710; 3219; 4101; 4378; 4640
SmoI	C!TYRAG	5	1710; 3219; 4101; 4378; 4640
SmuI	CCCGCNNNN!	9	93; 119; 286; 1029; 2150; 2505; 2526; 3722; 3854
SmuI	!NNNNNNGCGGG	6	616; 2081; 2951; 3488; 3626; 3773
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	962; 2398; 2470; 3233
Srfl	GCCC!GGGC	0	
Sse9I	!AATT	13	18; 1010; 1127; 1414; 1578; 1642; 1720; 1746; 1757; 2404; 2476; 2568; 3986
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2649
SsiI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 612; 660; 791; 1022; 1346; 1391; 1475; 2143; 2146; 2160; 2250; 2498; 2510; 2519; 2531; 2541; 2552; 2598; 2737; 2800; 3302; 3347; 3413; 3439; 3564; 3567; 3715; 3847; 4154; 4298; 4794
SsiI	G!CGG	29	370; 403; 528; 623; 647; 712; 793; 1270; 1273; 2088; 2115; 2203; 2313; 2894; 2958; 3059; 3062; 3342; 3397; 3495; 3633; 3780; 3920; 4163; 4408; 4529; 4548; 4675; 4703
SspI	AAT!ATT	2	1736; 2289
SspDI	G!GCGCC	3	714; 903; 2827
SspD5I	GGTGANNNNNNNN!	5	376; 896; 1043; 3899; 4015
SspD5I	!NNNNNNNNNTCACC	6	982; 1123; 1201; 1334; 1944; 3005
SstI	GAGCT!C	0	
SstII	CCGC!GG	1	794
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 650; 871; 937; 970; 1028; 1285; 1297; 2027; 2149; 2504; 2525; 2838; 3241; 3380; 3451; 3721; 3853; 4083; 4521
Sth132I	!NNNNNNNNNCGGG	19	15; 407; 470; 615; 2028; 2080; 2181; 2908; 2950; 2983; 3487; 3596; 3625; 3772; 3876; 3907; 4360; 4404; 4612
Sth302II	CC!GG	20	645; 694; 854; 1214; 2047; 2734; 2811; 2833; 2861; 2992; 3082; 3149; 3330; 3605; 3613; 3705; 4179; 4369; 4395; 4542
StrI	C!TCGAG	0	
StsI	GGATGNNNNNNNNNN!	8	784; 844; 1108; 1345; 2696; 3153; 3178; 3632
StsI	!NNNNNNNNNNNNNNNNCATCC	2	773; 2500
StuI	AGG!CCT	1	2649

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StyI	C!CWGG	5	360; 2557; 2650; 3260; 3665
StyD4I	!CCNGG	19	88; 281; 642; 870; 880; 1078; 2362; 2417; 2434; 2830; 2990; 3213; 3603; 3792; 3895; 4367; 4585; 4598; 4719
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	14	76; 198; 269; 543; 581; 1373; 1919; 3208; 3324; 3432; 3755; 4246; 4716; 4787
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 748; 976; 1105; 1288; 1318; 1891; 1903; 1946; 2056; 2947; 3134; 3915; 4048
TaqI	T!CGA	13	997; 1039; 1977; 2668; 2941; 3097; 3121; 3157; 3319; 3510; 3555; 3810; 4648
TaqII	GACCGANNNNNNNNNNN!	4	1353; 1848; 2865; 3533
TaqII	!NNNNNNNNNTCGGTC	1	3777
TaqII	CACCCANNNNNNNNNNN!	1	1263
TaqII	!NNNNNNNNNTGGGTG	3	172; 2732; 3324
TasI	!AATT	13	18; 1010; 1127; 1414; 1578; 1642; 1720; 1746; 1757; 2404; 2476; 2568; 3986
TatI	W!GTACW	6	217; 297; 330; 381; 1054; 1147
TauI	GCSG!C	24	614; 650; 662; 715; 796; 1273; 1276; 1393; 1477; 2148; 2162; 2600; 2739; 2802; 2897; 3062; 3065; 3304; 3400; 3441; 3569; 3923; 4551; 4706
TfiI	G!AWTC	6	1115; 3313; 3447; 3557; 3594; 4772
TliI	C!TCGAG	0	
TruII	T!TAA	16	7; 1413; 1529; 1590; 1711; 1732; 1743; 1755; 1766; 1783; 1881; 2152; 3971; 3985; 3990; 4042
Tru9I	T!TAA	16	7; 1413; 1529; 1590; 1711; 1732; 1743; 1755; 1766; 1783; 1881; 2152; 3971; 3985; 3990; 4042
TscAI	CASTGNN!	8	661; 915; 1146; 1674; 2957; 4067; 4338; 4351
TseI	G!CWGC	20	614; 617; 620; 709; 955; 1048; 1216; 1604; 2123; 2788; 2889; 2931; 2972; 3065; 3452; 3905; 4131; 4337; 4340; 4405
TsoI	TARCCANNNNNNNNNNN!	2	1800; 2147
TsoI	!NNNNNNNNNTGGYTA	3	958; 1605; 3357
Tsp45I	!GTSAC	6	884; 1031; 1334; 2117; 2948; 3254
Tsp509I	!AATT	13	18; 1010; 1127; 1414; 1578; 1642; 1720; 1746; 1757; 2404; 2476; 2568; 3986
TspDTI	ATGAANNNNNNNNNNN!	4	1269; 1586; 2887; 3591
TspDTI	!NNNNNNNNNTTCAT	6	26; 830; 1220; 3305; 3761; 3968
TspEI	!AATT	13	18; 1010; 1127; 1414; 1578; 1642; 1720; 1746; 1757; 2404; 2476; 2568; 3986
TspGWI	ACGGANNNNNNNNNNN!	1	3703
TspGWI	!NNNNNNNNNTCCGT	1	590
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	8	661; 915; 1146; 1674; 2957; 4067; 4338; 4351
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2946
Tth111II	CAARCANNNNNNNNNNN!	1	4155
Tth111II	!NNNNNNNNNTGYTTG	3	3263; 4123; 4162
UnbI	!GGNCC	11	82; 275; 640; 926; 1274; 1934; 3343; 3788; 3834; 3892; 3925
Van91I	CCANNNN!NTGG	2	680; 1106
Vha464I	C!TTAAG	1	1710
VneI	G!TGCAC	2	1281; 4432
VpaK11AI	!GGWCC	2	3343; 3788
VpaK11BI	G!GWCC	2	3344; 3789
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATY	3	1642; 1746; 1757
XbaI	T!CTAGA	1	1482
XceI	RCATG!Y	6	599; 962; 2398; 2470; 3233; 4750
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	0	
XhoII	R!GATCY	13	585; 670; 686; 736; 1195; 1443; 2999; 3245; 3637; 3996; 4008; 4094; 4105
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	2650; 3665

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XmiI	GT!MKAC	0	
XmnI	GAANN!NNTTC	1	942
XspI	C!TAG	8	592; 1483; 1677; 2095; 2651; 3666; 4000; 4253
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2400; 2472; 4803