

## peTurboYFP-PRL-dest1 vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2226; 2431
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2514; 3470; 5259
AatI	AGG!CCT	1	3264
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	58
AccII	CG!CG	20	69; 185; 416; 455; 740; 770; 976; 2367; 2743; 2763; 2787; 2818; 3509; 3810; 4248; 4332; 4395; 4464; 4737; 5318
AccIII	T!CCGGA	1	811
Acc16I	TGC!GCA	1	3545
Acc36I	ACCTGCNNNN!	2	3711; 4161
Acc36I	!NNNNNNNNNGCAGGT	1	3330
Acc65I	G!GTACC	1	63
AccB1I	G!GYRCC	6	63; 106; 295; 2596; 3442; 3477
AccB7I	CCANNNN!NTGG	1	498
AccBSI	CCG!CTC	2	2867; 4056
AccBSI	GAG!CGG	3	917; 2703; 4110
AceIII	CAGCTCNNNNNNN!	2	1872; 2399
AceIII	!NNNNNNNNNNNGAGCTG	2	313; 333
AciI	C!CGC	32	67; 183; 414; 738; 783; 859; 974; 1231; 2758; 2761; 2775; 2865; 3113; 3125; 3134; 3146; 3156; 3167; 3213; 3352; 3415; 3917; 3962; 4028; 4054; 4179; 4182; 4330; 4462; 4769; 4913; 5409
AciI	G!CGG	29	69; 104; 185; 662; 665; 865; 871; 917; 970; 2703; 2730; 2818; 2928; 3509; 3573; 3674; 3677; 3957; 4012; 4110; 4248; 4395; 4535; 4778; 5023; 5144; 5163; 5290; 5318
AcI	AA!CGTT	0	
AcIWI	GGATCNNNN!	11	86; 964; 1002; 1158; 3311; 3622; 3868; 4260; 4619; 4717; 4803
AcIWI	!NNNNNGATCC	7	73; 123; 989; 3687; 4231; 4618; 4715
AcoI	Y!GGCCR	9	165; 468; 489; 629; 971; 3349; 3523; 3914; 3941
AcsI	R!AATTY	5	47; 1911; 2257; 2361; 2372
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	5	349; 592; 775; 3589; 4021
AcuI	!NNNNNNNNNNNNNNCTTCAG	3	159; 991; 4819
AcvI	CAC!GTG	4	495; 678; 708; 991
AcyI	GR!CGYC	6	107; 296; 803; 3443; 4145; 4224
AdeI	CACNNN!GTG	1	2559
AfaI	GT!AC	9	65; 316; 448; 541; 688; 1098; 1340; 1472; 3749
AfeI	AGC!GCT	1	14
AfiI	CCNNNNN!NNGG	23	138; 189; 263; 420; 498; 661; 864; 1490; 2455; 2781; 3173; 3424; 3968; 4249; 4281; 4413; 4448; 4498; 4530; 4883; 5162; 5328; 5346
AflII	C!TTAAG	1	2325
AflIII	A!CRYGT	1	5361
AgeI	A!CCGGT	1	84
AgsI	TTS!AA	9	408; 480; 519; 585; 2854; 2898; 2908; 3321; 4897
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	15	262; 272; 470; 908; 1864; 1969; 2977; 3032; 3049; 3828; 4407; 4510; 5200; 5213; 5334
AjuI	GAANNNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNTTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	CCAANNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	274
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	3017; 3089
AlfI	!NNNNNNNNNGCANNNNNTTGC	2	2983; 3055
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	2525
AloI	!NNNNNNNGGANNNNNNGTTC	1	214
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	1	246
AloI	!NNNNNNNGAACNNNNNTTCC	1	2493
AluI	AG!CT	25	36; 42; 327; 347; 462; 701; 714; 824; 985; 1745; 1756; 1813; 1862; 1992; 2222; 2389; 2646; 2941; 3229; 3549; 4007; 4804; 5061; 5107; 5197
AluBI	AG!CT	25	36; 42; 327; 347; 462; 701; 714; 824; 985; 1745; 1756; 1813; 1862; 1992; 2222; 2389; 2646; 2941; 3229; 3549; 4007; 4804; 5061; 5107; 5197
AlwI	GGATCNNNN!	11	86; 964; 1002; 1158; 3311; 3622; 3868; 4260; 4619; 4717; 4803
AlwI	!NNNNNGATCC	7	73; 123; 989; 3687; 4231; 4618; 4715
Alw21I	GWGCW!C	6	38; 271; 677; 3556; 3746; 5051
Alw26I	GTCTCN!	2	835; 1149
Alw26I	!NNNNNGAGAC	5	754; 2867; 3285; 4304; 4432
Alw44I	G!TGCAC	2	673; 5047
AlwNI	CAGNNN!CTG	3	1865; 4544; 4952
Ama87I	C!YCGRG	4	31; 74; 322; 682
Aor13HI	T!CCGGA	1	811
Aor51HI	AGC!GCT	1	14
ApaI	GGGCC!C	1	75
ApaBI	GCANNNNN!TGC	4	944; 3011; 3083; 4545
ApaLI	G!TGCAC	2	673; 5047
ApeKI	G!CWGC	22	101; 347; 440; 608; 891; 937; 985; 1742; 1932; 2219; 2738; 3403; 3504; 3546; 3587; 3680; 4067; 4520; 4746; 4952; 4955; 5020
ApoI	R!AATY	5	47; 1911; 2257; 2361; 2372
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3958
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3752; 4405; 5243
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3842
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	296
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	3271
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTTCCYC	2	1832; 4013
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	28	28; 79; 129; 553; 600; 634; 733; 836; 957; 995; 1151; 2101; 3281; 3285; 3304; 3615; 3693; 3774; 3783; 3861; 4237; 4253; 4612; 4624; 4702; 4710; 4721; 4796
AsiGI	A!CCGGT	1	84
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3561
Asp700I	GAANN!NNTTC	1	334
Asp718I	G!GTACC	1	63
AspA2I	C!CTAGG	2	3265; 4280
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	29	15; 109; 298; 377; 418; 580; 770; 772; 876; 2709; 2717; 2743; 2765; 2774; 2787; 2818; 3437; 3445; 3509; 3546; 3812; 4072; 4248; 4334; 4737; 4846; 5020; 5120; 5187
AspS9I	G!GNCC	16	71; 72; 319; 667; 924; 1024; 1817; 1892; 1973; 2073; 2550; 3959; 4404; 4450; 4508; 4541
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	45; 4125
AsuC2I	CC!SGG	6	75; 76; 3447; 3607; 4220; 4984

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AsuHPI	GGTGANNNNNNNN!	5	288; 435; 1024; 4514; 4630
AsuHPI	!NNNNNNNTCACC	8	375; 516; 594; 727; 922; 1907; 2560; 3621
AsuNHI	G!CTAGC	0	
AvaI	C!YCGRG	4	31; 74; 322; 682
AvaII	G!GWCC	4	924; 1024; 3959; 4404
AviII	TGC!GCA	1	3545
AvrII	C!CTAGG	2	3265; 4280
AxyI	CC!TNAGG	2	2923; 4555
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	9	75; 257; 263; 677; 683; 909; 3389; 3482; 5051
BalI	TGG!CCA	4	167; 470; 491; 3525
BamHI	G!GATCC	2	78; 994
BanI	G!GYRCC	6	63; 106; 295; 2596; 3442; 3477
BanII	GRGCY!C	5	38; 75; 2634; 3808; 4518
BanIII	AT!CGAT	1	3283
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	354
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	322
BasI	CCANNNN!NTGG	1	498
BauI	C!ACGAG	3	595; 4161; 5188
BauI	C!TCGTG	1	4035
BbeI	GGCGC!C	3	110; 299; 3446
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	4	495; 678; 708; 991
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	4	354; 3013; 3085; 3848
BbvI	GCAGCNNNNNNNN!	11	113; 452; 620; 949; 1754; 2231; 3516; 3558; 4079; 4532; 5032
BbvI	!NNNNNNNNNNNGCTGC	10	334; 878; 972; 1919; 2725; 3390; 3574; 3667; 4733; 4939
Bbv12I	GWGCW!C	6	38; 271; 677; 3556; 3746; 5051
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	7	388; 664; 1903; 2573; 3137; 3663; 4165
BccI	!NNNNNGATGG	10	141; 157; 352; 391; 481; 877; 915; 2541; 3321; 3749
BceAI	ACGGCNNNNNNNNNN!	7	138; 213; 309; 333; 582; 3869; 4356
BceAI	!NNNNNNNNNNNGCCGT	4	757; 2584; 3402; 4861
BcefI	ACGGCNNNNNNNNNN!	7	138; 213; 309; 333; 582; 3869; 4356
BcefI	!NNNNNNNNNNNGCCGT	4	758; 2585; 3403; 4862
BcgI	CGANNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2872; 3662; 5163
BciVI	!NNNNNGGATAC	0	
BcII	T!GATCA	0	
BcnI	CC!SGG	6	75; 76; 3447; 3607; 4220; 4984
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNN!	1	5296
BdaI	!NNNNNNNNNTGANNNNNTCA	1	5262
BfaI	C!TAG	11	10; 953; 1336; 1814; 2098; 2292; 2710; 3266; 4281; 4615; 4868
BfiI	ACTGGGNNNNN!	2	2065; 3392
BfiI	!NNNNCCAGT	3	222; 294; 3144
BfmI	C!TRYAG	5	52; 935; 2778; 4905; 5096
BfoI	RGCGC!Y	8	16; 110; 299; 581; 2710; 2718; 3446; 5121
BfrI	C!TTAAG	1	2325
BfuI	GTATCCNNNNNN!	3	2872; 3662; 5163
BfuI	!NNNNNGGATAC	0	

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BfuAI	ACCTGCNNNN!	2	3711; 4161
BfuAI	!NNNNNNNNGCAGGT	1	3330
BfuCI	!GATC	28	27; 78; 128; 552; 599; 633; 732; 835; 956; 994; 1150; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
BglI	GCCNNNN!GGC	1	3218
BglII	A!GATCT	2	27; 835
BisI	GC!NGC	45	102; 105; 186; 348; 441; 609; 663; 666; 783; 872; 892; 938; 971; 974; 986; 1743; 1933; 2220; 2739; 2761; 2775; 3213; 3352; 3404; 3415; 3505; 3510; 3547; 3588; 3675; 3678; 3681; 3917; 4013; 4054; 4068; 4182; 4521; 4536; 4747; 4953; 4956; 5021; 5164; 5319
BlnI	C!CTAGG	2	3265; 4280
BlpI	GC!TNAGC	1	715
BlsI	GCN!GC	45	103; 106; 187; 349; 442; 610; 664; 667; 784; 873; 893; 939; 972; 975; 987; 1744; 1934; 2221; 2740; 2762; 2776; 3214; 3353; 3405; 3416; 3506; 3511; 3548; 3589; 3676; 3679; 3682; 3918; 4014; 4055; 4069; 4183; 4522; 4537; 4748; 4954; 4957; 5022; 5165; 5320
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	4	924; 1024; 3959; 4404
Bme1390I	CC!NGG	21	75; 76; 264; 274; 472; 910; 1866; 1971; 2979; 3034; 3051; 3447; 3607; 3830; 4220; 4409; 4512; 4984; 5202; 5215; 5336
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	31; 74; 322; 682
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	16	72; 73; 320; 668; 925; 1025; 1818; 1893; 1974; 2074; 2551; 3960; 4405; 4451; 4509; 4542
BmiI	GGN!NCC	24	65; 73; 80; 108; 297; 321; 669; 810; 996; 1025; 2026; 2598; 2619; 2631; 2822; 2983; 3055; 3444; 3479; 4327; 4406; 4451; 5294; 5333
BmrI	ACTGGGNNNNN!	2	2065; 3392
BmrI	!NNNNCCAGT	3	222; 294; 3144
BmrFI	CC!NGG	21	75; 76; 264; 274; 472; 910; 1866; 1971; 2979; 3034; 3051; 3447; 3607; 3830; 4220; 4409; 4512; 4984; 5202; 5215; 5336
BmsI	GCATCNNNNN!	8	188; 1139; 2259; 3022; 3094; 3742; 3806; 4081
BmsI	!NNNNNNNNNGATGC	6	192; 213; 3401; 3656; 3872; 5264
BmtI	GCTAG!C	0	
BmuI	ACTGGGNNNNN!	2	2065; 3392
BmuI	!NNNNCCAGT	3	222; 294; 3144
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpII	GAGNNNNNCTNNNNNNNNNNNNN!	2	3232; 4131
BpII	!NNNNNNNNGAGNNNNNCTC	2	3200; 4099
BpmI	CTGGAGNNNNNNNNNNNNNNN!	3	285; 532; 4283
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	4226
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	45; 4125
Bpu1102I	GC!TNAGC	1	715
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNN!	3	2098; 4737; 5276
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	22; 3819; 4978
BpuMI	CC!SGG	6	75; 76; 3447; 3607; 4220; 4984
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	1	835
BsaI	!NNNNNGAGACC	2	754; 4432
Bsa29I	AT!CGAT	1	3283
BsaAI	YAC!GTR	8	138; 366; 495; 678; 708; 991; 2559; 3747
BsaBI	GATNN!NNATC	2	2105; 3302
BsaHI	GR!CGYC	6	107; 296; 803; 3443; 4145; 4224

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BsaJI	C!CNNGG	25	67; 74; 120; 183; 262; 272; 419; 471; 773; 849; 908; 1865; 1969; 2977; 3049; 3172; 3207; 3216; 3265; 3606; 3875; 4280; 4408; 4511; 5201
BsaMI	GAATGCN!	1	2194
BsaMI	G!CATTC	1	2287
BsaWI	W!CCGGW	8	18; 84; 811; 826; 3474; 4318; 5008; 5155
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2523
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNACNNNNNCTCC	1	2493
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN	0	
BsbI	!NNNNNNNNNNNNNNNNNGTGTTG	2	2444; 4351
Bsc4I	CCNNNNN!NNGG	23	138; 189; 263; 420; 498; 661; 864; 1490; 2455; 2781; 3173; 3424; 3968; 4249; 4281; 4413; 4448; 4498; 4530; 4883; 5162; 5328; 5346
BscAI	GCATCNNNN!	8	187; 1138; 2258; 3021; 3093; 3741; 3805; 4080
BscAI	!NNNNNNGATGC	6	195; 216; 3404; 3659; 3875; 5267
Bse1I	ACTGGN!	4	2060; 3387; 3588; 4834
Bse1I	C!CAGT	7	228; 300; 1923; 2472; 3150; 4946; 4959
Bse8I	GATNN!NNATC	2	2105; 3302
Bse21I	CC!TNAGG	2	2923; 4555
Bse118I	R!CCGGY	9	84; 244; 604; 805; 861; 2660; 3762; 3943; 4226
BseAI	T!CCGGA	1	811
BseBI	CC!WGG	15	264; 274; 472; 910; 1866; 1971; 2979; 3034; 3051; 3830; 4409; 4512; 5202; 5215; 5336
BseCI	AT!CGAT	1	3283
BseDI	C!CNNGG	25	67; 74; 120; 183; 262; 272; 419; 471; 773; 849; 908; 1865; 1969; 2977; 3049; 3172; 3207; 3216; 3265; 3606; 3875; 4280; 4408; 4511; 5201
Bse3DI	GCAATGNN!	2	162; 3676
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	10	168; 228; 492; 729; 885; 926; 3303; 3760; 3785; 4239
BseGI	!CATCC	2	179; 3129
BseJI	GATNN!NNATC	2	2105; 3302
BseLI	CCNNNNN!NNGG	23	138; 189; 263; 420; 498; 661; 864; 1490; 2455; 2781; 3173; 3424; 3968; 4249; 4281; 4413; 4448; 4498; 4530; 4883; 5162; 5328; 5346
BseMI	GCAATGNN!	2	162; 3676
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	4	38; 846; 1160; 4569
BseMII	!NNNNNNNNCTGAG	9	706; 990; 1282; 1794; 2914; 3216; 4097; 4669; 5078
BseNI	ACTGGN!	4	2060; 3387; 3588; 4834
BseNI	C!CAGT	7	228; 300; 1923; 2472; 3150; 4946; 4959
BsePI	G!CGCGC	1	768
BseRI	GAGGAGNNNNNNNNNN!	1	3261
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCM!C	9	75; 257; 263; 677; 683; 909; 3389; 3482; 5051
BseXI	GCAGCNNNNNNNN!	11	113; 452; 620; 949; 1754; 2231; 3516; 3558; 4079; 4532; 5032
BseXI	!NNNNNNNNNNNGCTGC	10	334; 878; 972; 1919; 2725; 3390; 3574; 3667; 4733; 4939
BseX3I	C!GGCCG	2	971; 3349
BseYI	C!CCAGC	3	2986; 3058; 5057
BseYI	G!CTGGG	2	498; 3947
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	2	388; 1947
BsgI	!NNNNNNNNNNNNNCTGCAC	2	222; 971
Bsh1236I	CG!CG	20	69; 185; 416; 455; 740; 770; 976; 2367; 2743; 2763; 2787; 2818; 3509; 3810; 4248; 4332; 4395; 4464; 4737; 5318
Bsh1285I	CGRY!CG	4	89; 974; 3352; 5027
BshFI	GG!CC	31	73; 167; 320; 470; 491; 559; 569; 631; 668; 973; 1818; 1893; 1974; 2075; 2409; 2551; 3206; 3212; 3221; 3264; 3351; 3525; 3916; 3943; 4452; 4509; 4542; 4887; 5321; 5339; 5350
BshNI	G!GYRCC	6	63; 106; 295; 2596; 3442; 3477
BshTI	A!CCGGT	1	84
BshVI	AT!CGAT	1	3283
BsiEI	CGRY!CG	4	89; 974; 3352; 5027

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BsiHKA1	GWGCW!C	6	38; 271; 677; 3556; 3746; 5051
BsiHKCI	C!YCGRG	4	31; 74; 322; 682
BsiSI	C!CGG	25	19; 75; 85; 245; 605; 806; 812; 827; 862; 2661; 3348; 3425; 3447; 3475; 3606; 3696; 3763; 3944; 4219; 4227; 4319; 4793; 4983; 5009; 5156
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	23	138; 189; 263; 420; 498; 661; 864; 1490; 2455; 2781; 3173; 3424; 3968; 4249; 4281; 4413; 4448; 4498; 4530; 4883; 5162; 5328; 5346
BsIFI	GGGACNNNNNNNNNN!	4	1037; 3594; 4126; 4235
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2959; 3031; 3095; 4390
BsmI	GAATGCN!	1	2194
BsmI	G!CATTC	1	2287
BsmAI	GTCTCN!	2	835; 1149
BsmAI	!NNNNNGAGAC	5	754; 2867; 3285; 4304; 4432
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	4	1037; 3594; 4126; 4235
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2959; 3031; 3095; 4390
BsnI	GG!CC	31	73; 167; 320; 470; 491; 559; 569; 631; 668; 973; 1818; 1893; 1974; 2075; 2409; 2551; 3206; 3212; 3221; 3264; 3351; 3525; 3916; 3943; 4452; 4509; 4542; 4887; 5321; 5339; 5350
Bso31I	GGTCTCN!	1	835
Bso31I	!NNNNNGAGACC	2	754; 4432
BsoBI	C!YCGRG	4	31; 74; 322; 682
Bsp13I	T!CCGGA	1	811
Bsp19I	C!CATGG	3	849; 3172; 3875
Bsp24I	GACNNNNNTGGNNNNNNNNNNNN!	1	4246
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	4667; 4845
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	4699; 4877
Bsp24I	!NNNNNNNGACNNNNNTGG	1	4214
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	45; 4125
Bsp120I	G!GGCCC	1	71
Bsp143I	!GATC	28	27; 78; 128; 552; 599; 633; 732; 835; 956; 994; 1150; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
Bsp1286I	GDGCH!C	16	38; 75; 257; 263; 271; 677; 683; 909; 2634; 3389; 3482; 3556; 3746; 3808; 4518; 5051
Bsp1407I	T!GTACA	3	446; 539; 1470
Bsp1720I	GC!TNAGC	1	715
BspACI	C!CGC	32	67; 183; 414; 738; 783; 859; 974; 1231; 2758; 2761; 2775; 2865; 3113; 3125; 3134; 3146; 3156; 3167; 3213; 3352; 3415; 3917; 3962; 4028; 4054; 4179; 4182; 4330; 4462; 4769; 4913; 5409
BspACI	G!CGG	29	69; 104; 185; 662; 665; 865; 871; 917; 970; 2703; 2730; 2818; 2928; 3509; 3573; 3674; 3677; 3957; 4012; 4110; 4248; 4395; 4535; 4778; 5023; 5144; 5163; 5290; 5318
BspCNI	CTCAGNNNNNNNN!	4	37; 845; 1159; 4568
BspCNI	!NNNNNNNCTGAG	9	707; 991; 1283; 1795; 2915; 3217; 4098; 4670; 5079
BspDI	AT!CGAT	1	3283
BspD6I	GACTCNNNN!	4	30; 2516; 4122; 4999
BspD6I	!NNNNNGAGTC	4	1008; 1798; 2479; 2911
BspEI	T!CCGGA	1	811
BspFNI	CG!CG	20	69; 185; 416; 455; 740; 770; 976; 2367; 2743; 2763; 2787; 2818; 3509; 3810; 4248; 4332; 4395; 4464; 4737; 5318
BspHI	T!CATGA	2	2869; 4641
BspLI	GGN!NCC	24	65; 73; 80; 108; 297; 321; 669; 810; 996; 1025; 2026; 2598; 2619; 2631; 2822; 2983; 3055; 3444; 3479; 4327; 4406; 4451; 5294; 5333
BspMI	ACCTGCNNNN!	2	3711; 4161
BspMI	!NNNNNNNGCAGGT	1	3330
BspOI	GCTAG!C	0	
BspPI	GGATCNNNN!	11	86; 964; 1002; 1158; 3311; 3622; 3868; 4260; 4619; 4717; 4803

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspPI	!NNNNNGATCC	7	73; 123; 989; 3687; 4231; 4618; 4715
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	568; 3787; 3997
BspTI	C!TTAAG	1	2325
BspT104I	TT!CGAA	2	45; 4125
BspT107I	G!GYRCC	6	63; 106; 295; 2596; 3442; 3477
BspTNI	GGTCTCN!	1	835
BspTNI	!NNNNNGAGACC	2	754; 4432
BsrI	ACTGGN!	4	2060; 3387; 3588; 4834
BsrI	C!CAGT	7	228; 300; 1923; 2472; 3150; 4946; 4959
BsrBI	CCG!CTC	2	2867; 4056
BsrBI	GAG!CGG	3	917; 2703; 4110
BsrDI	GCAATGNN!	2	162; 3676
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	9	84; 244; 604; 805; 861; 2660; 3762; 3943; 4226
BsrGI	T!GTACA	3	446; 539; 1470
BsrSI	ACTGGN!	4	2060; 3387; 3588; 4834
BsrSI	C!CAGT	7	228; 300; 1923; 2472; 3150; 4946; 4959
BssAI	R!CCGGY	9	84; 244; 604; 805; 861; 2660; 3762; 3943; 4226
BssECI	C!CNNGG	25	67; 74; 120; 183; 262; 272; 419; 471; 773; 849; 908; 1865; 1969; 2977; 3049; 3172; 3207; 3216; 3265; 3606; 3875; 4280; 4408; 4511; 5201
BssHII	G!CGCGC	1	768
BssKI	!CCNGG	21	73; 74; 262; 272; 470; 908; 1864; 1969; 2977; 3032; 3049; 3445; 3605; 3828; 4218; 4407; 4510; 4982; 5200; 5213; 5334
BssMI	!GATC	28	27; 78; 128; 552; 599; 633; 732; 835; 956; 994; 1150; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
BssNI	GR!CGYC	6	107; 296; 803; 3443; 4145; 4224
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	595; 4161; 5188
BssSI	C!TCGTG	1	4035
BssT1I	C!CWWGG	5	849; 3172; 3265; 3875; 4280
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	4	568; 2910; 3787; 3997
Bst98I	C!TTAAG	1	2325
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	6	107; 296; 803; 3443; 4145; 4224
BstAFI	C!TTAAG	1	2325
BstAPI	GCANNNN!NTGC	4	943; 3010; 3082; 4544
BstAUI	T!GTACA	3	446; 539; 1470
BstBI	TT!CGAA	2	45; 4125
Bst2BI	C!ACGAG	3	595; 4161; 5188
Bst2BI	C!TCGTG	1	4035
BstBAI	YAC!GTR	8	138; 366; 495; 678; 708; 991; 2559; 3747
Bst4CI	ACN!GT	14	63; 765; 928; 1101; 1329; 1644; 2534; 3823; 3939; 4047; 4370; 4861; 5331; 5402
BstC8I	GCN!NGC	33	71; 207; 352; 770; 863; 889; 1891; 1930; 1994; 2662; 2705; 2719; 2992; 3011; 3064; 3083; 3337; 3523; 3742; 3808; 3814; 3846; 3887; 3891; 3945; 4228; 4415; 4462; 4518; 4540; 4751; 5311; 5348
BstDEI	C!TNAG	15	24; 715; 832; 999; 1146; 1291; 1803; 1988; 2038; 2923; 3225; 4106; 4555; 4678; 5087
BstDSI	C!CRYGG	7	67; 120; 183; 773; 849; 3172; 3875
BstEII	G!GTNACC	2	276; 423
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	10	168; 228; 492; 729; 885; 926; 3303; 3760; 3785; 4239
BstF5I	!CATCC	2	179; 3129
BstFNI	CG!CG	20	69; 185; 416; 455; 740; 770; 976; 2367; 2743; 2763; 2787; 2818; 3509; 3810; 4248; 4332; 4395; 4464; 4737; 5318
BstH2I	RGCGC!Y	8	16; 110; 299; 581; 2710; 2718; 3446; 5121
BstHHI	GCG!C	29	15; 109; 298; 377; 418; 580; 770; 772; 876; 2709; 2717; 2743; 2765; 2774; 2787; 2818; 3437; 3445; 3509; 3546; 3812; 4072; 4248; 4334; 4737; 4846; 5020; 5120; 5187

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstKTI	GAT C	28	30; 81; 131; 555; 602; 636; 735; 838; 959; 997; 1153; 2103; 3283; 3287; 3306; 3617; 3695; 3776; 3785; 3863; 4239; 4255; 4614; 4626; 4704; 4712; 4723; 4798
BstMAI	GTCTCN	2	835; 1149
BstMAI	!NNNNNGAGAC	5	754; 2867; 3285; 4304; 4432
BstMBI	!GATC	28	27; 78; 128; 552; 599; 633; 732; 835; 956; 994; 1150; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
BstMCI	CGRY CG	4	89; 974; 3352; 5027
BstMWI	GCNNNNN!NNGC	29	185; 206; 245; 302; 575; 614; 871; 943; 982; 1959; 2670; 2700; 2727; 2769; 3010; 3082; 3133; 3212; 3434; 3518; 3541; 3680; 3803; 3886; 4153; 4340; 4544; 4743; 5315
BstNI	CC!WGG	15	264; 274; 472; 910; 1866; 1971; 2979; 3034; 3051; 3830; 4409; 4512; 5202; 5215; 5336
BstNSI	RCATG Y	5	354; 3013; 3085; 3848; 5365
BstOI	CC!WGG	15	264; 274; 472; 910; 1866; 1971; 2979; 3034; 3051; 3830; 4409; 4512; 5202; 5215; 5336
BstPI	G GTNACC	2	276; 423
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	21	73; 74; 262; 272; 470; 908; 1864; 1969; 2977; 3032; 3049; 3445; 3605; 3828; 4218; 4407; 4510; 4982; 5200; 5213; 5334
BstSFI	C TRYAG	5	52; 935; 2778; 4905; 5096
BstSLI	GKGC C	9	75; 257; 263; 677; 683; 909; 3389; 3482; 5051
BstSNI	TAC GTA	0	
BstUI	CG CG	20	69; 185; 416; 455; 740; 770; 976; 2367; 2743; 2763; 2787; 2818; 3509; 3810; 4248; 4332; 4395; 4464; 4737; 5318
Bst2UI	CC!WGG	15	264; 274; 472; 910; 1866; 1971; 2979; 3034; 3051; 3830; 4409; 4512; 5202; 5215; 5336
BstV1I	GCAGC NNNNNNN!	11	113; 452; 620; 949; 1754; 2231; 3516; 3558; 4079; 4532; 5032
BstV1I	!NNNNNNNNNNNGCTGC	10	334; 878; 972; 1919; 2725; 3390; 3574; 3667; 4733; 4939
BstV2I	GAAGAC NN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	1	1902
BstX2I	R!GATCY	12	27; 78; 128; 835; 994; 3614; 3860; 4252; 4611; 4623; 4709; 4720
BstYI	R!GATCY	12	27; 78; 128; 835; 994; 3614; 3860; 4252; 4611; 4623; 4709; 4720
BstZI	C!GGCCG	2	971; 3349
BstZ17I	GTA TAC	0	
BsuI	G TATCCNNNNNN!	3	2872; 3662; 5163
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT CGAT	1	3283
Bsu36I	CC TNAGG	2	2923; 4555
BsuRI	GG CC	31	73; 167; 320; 470; 491; 559; 569; 631; 668; 973; 1818; 1893; 1974; 2075; 2409; 2551; 3206; 3212; 3221; 3264; 3351; 3525; 3916; 3943; 4452; 4509; 4542; 4887; 5321; 5339; 5350
BsuTUI	AT CGAT	1	3283
BtgI	C CRYGG	7	67; 120; 183; 773; 849; 3172; 3875
BtgZI	GCGATG NNNNNNNNNN!	5	215; 263; 410; 2560; 3895
BtgZI	!NNNNNNNNNNNNNCATCGC	2	3714; 4058
BthCI	GCNG C	45	104; 107; 188; 350; 443; 611; 665; 668; 785; 874; 894; 940; 973; 976; 988; 1745; 1935; 2222; 2741; 2763; 2777; 3215; 3354; 3406; 3417; 3507; 3512; 3549; 3590; 3677; 3680; 3683; 3919; 4015; 4056; 4070; 4184; 4523; 4538; 4749; 4955; 4958; 5023; 5166; 5321
BtrI	CAC GTC	0	
BtrI	GAC GTG	0	
BtsI	GCAGT GNN!	0	
BtsI	!CACTGC	2	531; 2282
BtsCI	GGATG NN!	10	168; 228; 492; 729; 885; 926; 3303; 3760; 3785; 4239
BtsCI	!CATCC	2	179; 3129
BtuMI	TCG CGA	0	
BveI	ACCTGC NNNN!	2	3711; 4161
BveI	!NNNNNNNNGCAGGT	1	3330



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cac8I	GCN!NGC	33	71; 207; 352; 770; 863; 889; 1891; 1930; 1994; 2662; 2705; 2719; 2992; 3011; 3064; 3083; 3337; 3523; 3742; 3808; 3814; 3846; 3887; 3891; 3945; 4228; 4415; 4462; 4518; 4540; 4751; 5311; 5348
CaiI	CAGNNN!CTG	3	1865; 4544; 4952
CciI	T!CATGA	2	2869; 4641
CciNI	GC!GGCCGC	1	971
CdiI	CATC!G	6	627; 660; 3732; 3737; 3935; 4076
CdiI	C!GATG	6	201; 249; 357; 396; 2546; 3881
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	5315
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	1210; 3104; 3146
CelII	GC!TNAGC	1	715
CfoI	GCG!C	29	15; 109; 298; 377; 418; 580; 770; 772; 876; 2709; 2717; 2743; 2765; 2774; 2787; 2818; 3437; 3445; 3509; 3546; 3812; 4072; 4248; 4334; 4737; 4846; 5020; 5120; 5187
CfrI	Y!GGCCR	9	165; 468; 489; 629; 971; 3349; 3523; 3914; 3941
Cfr9I	C!CCGGG	1	74
Cfr10I	R!CCGGY	9	84; 244; 604; 805; 861; 2660; 3762; 3943; 4226
Cfr13I	G!GNCC	16	71; 72; 319; 667; 924; 1024; 1817; 1892; 1973; 2073; 2550; 3959; 4404; 4450; 4508; 4541
Cfr42I	CCGC!GG	2	70; 186
ChaI	GATC!	28	31; 82; 132; 556; 603; 637; 736; 839; 960; 998; 1154; 2104; 3284; 3288; 3307; 3618; 3696; 3777; 3786; 3864; 4240; 4256; 4615; 4627; 4705; 4713; 4724; 4799
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	6	556; 921; 3260; 4700; 4800; 4878
CjeI	!NNNNNNNNNACNNNNNNNTGG	6	1849; 2927; 3022; 4214; 4764; 5319
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	6	1883; 2961; 3056; 4248; 4798; 5353
CjeI	!NNNNNNNNCCANNNNNNGT	6	522; 887; 3226; 4666; 4766; 4844
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	4700; 4878
CjePI	!NNNNNNNNGANNNNNNNTGG	4	450; 1638; 4214; 4813
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	4	483; 1671; 4247; 4846
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	4667; 4845
ClaI	AT!CGAT	1	3283
CpoI	CG!GWCCG	1	3959
CseI	GACGCNNNNN!	3	811; 4153; 4232
CseI	!NNNNNNNNNNGCGTC	3	2776; 4671; 5249
CsiI	A!CCWGGT	1	3032
CspI	CG!GWCCG	1	3959
Csp6I	G!TAC	9	64; 315; 447; 540; 687; 1097; 1339; 1471; 3748
Csp45I	TT!CGAA	2	45; 4125
CspAI	A!CCGGT	1	84
CspCI	CAANNNNNGTGGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	3	782; 2723; 4332
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	21	96; 351; 696; 850; 897; 1068; 1613; 1832; 2870; 3010; 3082; 3173; 3314; 3659; 3845; 3876; 3902; 4258; 4642; 5362; 5413
CviJI	RG!CY	105	36; 42; 73; 167; 194; 320; 327; 347; 362; 462; 470; 476; 491; 559; 569; 631; 668; 701; 714; 752; 824; 848; 854; 940; 973; 985; 1745; 1756; 1792; 1813; 1818; 1862; 1893; 1932; 1953; 1962; 1974; 1992; 2075; 2112; 2222; 2389; 2409; 2551; 2632; 2646; 2660; 2941; 2982; 3054; 3177; 3206; 3212; 3221; 3229; 3252; 3264; 3270; 3351; 3368; 3376; 3403; 3428; 3512; 3521; 3525; 3549; 3587; 3663; 3680; 3699; 3762; 3806; 3816; 3833; 3916; 3943; 3947; 3984; 4007; 4023; 4203; 4230; 4291; 4413; 4452; 4509; 4516; 4523; 4542; 4553; 4804; 4833; 4876; 4887; 4952; 5031; 5056; 5061; 5107; 5197; 5295; 5321; 5339; 5350

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	105	36; 42; 73; 167; 194; 320; 327; 347; 362; 462; 470; 476; 491; 559; 569; 631; 668; 701; 714; 752; 824; 848; 854; 940; 973; 985; 1745; 1756; 1792; 1813; 1818; 1862; 1893; 1932; 1953; 1962; 1974; 1992; 2075; 2112; 2222; 2389; 2409; 2551; 2632; 2646; 2660; 2941; 2982; 3054; 3177; 3206; 3212; 3221; 3229; 3252; 3264; 3270; 3351; 3368; 3376; 3403; 3428; 3512; 3521; 3525; 3549; 3587; 3663; 3680; 3699; 3762; 3806; 3816; 3833; 3916; 3943; 3947; 3984; 4007; 4023; 4203; 4230; 4291; 4413; 4452; 4509; 4516; 4523; 4542; 4553; 4804; 4833; 4876; 4887; 4952; 5031; 5056; 5061; 5107; 5197; 5295; 5321; 5339; 5350
CviQI	G!TAC	9	64; 315; 447; 540; 687; 1097; 1339; 1471; 3748
DdeI	C!TNAG	15	24; 715; 832; 999; 1146; 1291; 1803; 1988; 2038; 2923; 3225; 4106; 4555; 4678; 5087
DinI	GGC!GCC	3	108; 297; 3444
DpnI	GA!TC	28	29; 80; 130; 554; 601; 635; 734; 837; 958; 996; 1152; 2102; 3282; 3286; 3305; 3616; 3694; 3775; 3784; 3862; 4238; 4254; 4613; 4625; 4703; 4711; 4722; 4797
DpnII	!GATC	28	27; 78; 128; 552; 599; 633; 732; 835; 956; 994; 1150; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
DraI	TTT!AAA	4	1515; 2145; 4587; 4606
DraII	RG!GNCCY	4	1024; 1817; 2073; 4541
DraIII	CACNNN!GTG	1	2559
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	2	338; 4923
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNNN!NNGTC	3	2514; 3470; 5259
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNN!	1	818
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNNN!NNGTC	3	2514; 3470; 5259
EaeI	Y!GGCCR	9	165; 468; 489; 629; 971; 3349; 3523; 3914; 3941
EagI	C!GGCCG	2	971; 3349
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	4	568; 2910; 3787; 3997
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	4	568; 2910; 3787; 3997
EciI	GGCGGANNNNNNNNNNNNN!	4	2943; 3972; 5159; 5305
EciI	!NNNNNNNNNTCCGCC	3	3114; 3135; 3156
Ecl136II	GAG!CTC	1	36
EclXI	C!GGCCG	2	971; 3349
Eco24I	GRGCV!C	5	38; 75; 2634; 3808; 4518
Eco31I	GGTCTCN!	1	835
Eco31I	!NNNNNGAGACC	2	754; 4432
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	924; 1024; 3959; 4404
Eco47III	AGC!GCT	1	14
Eco52I	C!GGCCG	2	971; 3349
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	5	349; 592; 775; 3589; 4021
Eco57I	!NNNNNNNNNNNNNNNNCTTCAG	3	159; 991; 4819
Eco72I	CAC!GTG	4	495; 678; 708; 991
Eco81I	CC!TNAGG	2	2923; 4555
Eco88I	C!YCGRG	4	31; 74; 322; 682
Eco91I	G!GTNACC	2	276; 423
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	5	849; 3172; 3265; 3875; 4280
Eco147I	AGG!CCT	1	3264
EcoHI	!CCSGG	6	73; 74; 3445; 3605; 4218; 4982
EcoICRI	GAG!CTC	1	36
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	8	285; 349; 532; 592; 775; 3589; 4021; 4283
Eco57MI	!NNNNNNNNNNNNNNNNCTYCAG	4	159; 991; 4226; 4819
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	2	276; 423
Eco0109I	RG!GNCCY	4	1024; 1817; 2073; 4541
EcoRI	G!AATTC	2	47; 1911

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EcoRII	!CCWGG	15	262; 272; 470; 908; 1864; 1969; 2977; 3032; 3049; 3828; 4407; 4510; 5200; 5213; 5334
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	849; 3172; 3265; 3875; 4280
EcoT22I	ATGCA!T	3	3015; 3087; 5418
EcoT38I	GRGCY!C	5	38; 75; 2634; 3808; 4518
Eco53kI	GAG!CTC	1	36
EgeI	GGC!GCC	3	108; 297; 3444
EheI	GGC!GCC	3	108; 297; 3444
ErhI	C!CWWGG	5	849; 3172; 3265; 3875; 4280
EsaBC3I	TC!GA	18	33; 46; 59; 390; 432; 801; 841; 2593; 3284; 3557; 3713; 3737; 3773; 3935; 4126; 4171; 4426; 5264
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	21	99; 354; 699; 853; 900; 1071; 1616; 1835; 2873; 3013; 3085; 3176; 3317; 3662; 3848; 3879; 3905; 4261; 4645; 5365; 5416
FaiI	YA!TR	70	97; 352; 697; 748; 851; 898; 1021; 1057; 1069; 1074; 1181; 1248; 1272; 1360; 1376; 1382; 1423; 1432; 1436; 1442; 1467; 1477; 1539; 1614; 1684; 1686; 1700; 1702; 1730; 1778; 1833; 1839; 2068; 2105; 2115; 2181; 2226; 2431; 2859; 2871; 3002; 3011; 3074; 3083; 3107; 3174; 3198; 3315; 3379; 3660; 3685; 3846; 3877; 3903; 3975; 4191; 4259; 4337; 4389; 4550; 4567; 4569; 4571; 4643; 4921; 5110; 5226; 5299; 5363; 5414
FalI	AAGNNNNNCTNNNNNNNNNNNN!	2	597; 3783
FalI	!NNNNNNNNAAGNNNNNCTT	2	565; 3751
FaqI	GGGACNNNNNNNNNN!	4	1037; 3594; 4126; 4235
FaqI	!NNNNNNNNNNNNNGTCCC	4	2959; 3031; 3095; 4390
FatI	!CATG	21	95; 350; 695; 849; 896; 1067; 1612; 1831; 2869; 3009; 3081; 3172; 3313; 3658; 3844; 3875; 3901; 4257; 4641; 5361; 5412
FauI	CCCGCNNNN!	7	421; 866; 2765; 3120; 3141; 4337; 4469
FauI	!NNNNNNGCGGG	7	62; 910; 2696; 3566; 4103; 4241; 4388
FauNDI	CA!TATG	0	
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	58
FmuI	GGNC!C	16	74; 75; 322; 670; 927; 1027; 1820; 1895; 1976; 2076; 2553; 3962; 4407; 4453; 4511; 4544
Fnu4HI	GC!NGC	45	102; 105; 186; 348; 441; 609; 663; 666; 783; 872; 892; 938; 971; 974; 986; 1743; 1933; 2220; 2739; 2761; 2775; 3213; 3352; 3404; 3415; 3505; 3510; 3547; 3588; 3675; 3678; 3681; 3917; 4013; 4054; 4068; 4182; 4521; 4536; 4747; 4953; 4956; 5021; 5164; 5319
FokI	GGATGNNNNNNNNN!	10	175; 235; 499; 736; 892; 933; 3310; 3767; 3792; 4246
FokI	!NNNNNNNNNNNNNCATCC	2	166; 3116
FriOI	GRGCY!C	5	38; 75; 2634; 3808; 4518
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3545
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	11	10; 953; 1336; 1814; 2098; 2292; 2710; 3266; 4281; 4615; 4868

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	169	32; 80; 95; 123; 145; 181; 196; 219; 240; 255; 269; 285; 303; 324; 368; 393; 426; 441; 484; 505; 540; 573; 594; 618; 645; 666; 682; 696; 718; 744; 766; 786; 804; 819; 840; 862; 908; 922; 940; 954; 987; 1011; 1040; 1057; 1244; 1271; 1348; 1402; 1497; 1585; 1630; 1766; 1822; 1866; 1907; 1931; 1949; 1982; 2022; 2041; 2057; 2089; 2108; 2126; 2165; 2179; 2320; 2415; 2439; 2462; 2485; 2503; 2525; 2546; 2565; 2584; 2613; 2634; 2648; 2674; 2762; 2788; 2837; 2878; 2896; 2935; 2951; 2989; 3046; 3061; 3118; 3138; 3152; 3169; 3183; 3220; 3235; 3278; 3361; 3428; 3459; 3479; 3494; 3539; 3553; 3619; 3633; 3652; 3668; 3709; 3729; 3776; 3826; 3842; 3862; 3887; 3907; 3930; 3957; 3975; 4001; 4041; 4067; 4091; 4147; 4161; 4189; 4232; 4253; 4288; 4332; 4420; 4444; 4466; 4486; 4502; 4523; 4537; 4556; 4640; 4660; 4688; 4703; 4737; 4779; 4806; 4821; 4866; 4890; 4904; 4926; 4952; 4972; 4996; 5022; 5070; 5089; 5108; 5134; 5169; 5214; 5244; 5258; 5309; 5323; 5348; 5364; 5385; 5414
FspEI	!NNNNNNNNNNNNNNNGG	143	4; 46; 70; 89; 107; 127; 145; 170; 196; 230; 249; 278; 302; 344; 376; 406; 452; 473; 496; 531; 551; 590; 613; 644; 706; 742; 760; 791; 812; 836; 856; 895; 939; 977; 995; 1042; 1060; 1078; 1123; 1264; 1336; 1427; 1475; 1574; 1640; 1707; 1763; 1800; 1851; 1875; 1914; 1932; 1956; 2007; 2041; 2070; 2114; 2214; 2283; 2313; 2391; 2440; 2462; 2490; 2526; 2571; 2600; 2636; 2655; 2683; 2703; 2766; 2789; 2897; 2929; 2947; 2976; 3019; 3048; 3159; 3188; 3231; 3252; 3280; 3313; 3333; 3358; 3385; 3410; 3432; 3460; 3486; 3507; 3558; 3579; 3597; 3645; 3681; 3737; 3762; 3786; 3815; 3838; 3862; 3888; 3910; 3929; 3954; 3994; 4030; 4095; 4180; 4204; 4233; 4267; 4288; 4308; 4353; 4380; 4399; 4432; 4484; 4515; 4542; 4594; 4692; 4763; 4808; 4869; 4934; 4968; 4994; 5012; 5048; 5118; 5141; 5163; 5187; 5220; 5268; 5303; 5321; 5378
Fsp4HI	GC!NGC	45	102; 105; 186; 348; 441; 609; 663; 666; 783; 872; 892; 938; 971; 974; 986; 1743; 1933; 2220; 2739; 2761; 2775; 3213; 3352; 3404; 3415; 3505; 3510; 3547; 3588; 3675; 3678; 3681; 3917; 4013; 4054; 4068; 4182; 4521; 4536; 4747; 4953; 4956; 5021; 5164; 5319
GdiII	C!GGCCR	2	971; 3349
GdiII	Y!GGCCG	5	629; 971; 3349; 3914; 3941
GlaI	GC!GC	29	14; 108; 297; 376; 417; 579; 769; 771; 875; 2708; 2716; 2742; 2764; 2773; 2786; 2817; 3436; 3444; 3508; 3545; 3811; 4071; 4247; 4333; 4736; 4845; 5019; 5119; 5186
GluI	GC!NGC	45	102; 105; 186; 348; 441; 609; 663; 666; 783; 872; 892; 938; 971; 974; 986; 1743; 1933; 2220; 2739; 2761; 2775; 3213; 3352; 3404; 3415; 3505; 3510; 3547; 3588; 3675; 3678; 3681; 3917; 4013; 4054; 4068; 4182; 4521; 4536; 4747; 4953; 4956; 5021; 5164; 5319
GsaI	CCCAG!C	3	2990; 3062; 5061
GsaI	GCTGG!G	2	502; 3951
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	285; 532; 4283
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	4226
HaeI	WGG!CCW	9	167; 470; 491; 559; 3264; 3525; 4887; 5339; 5350
HaeII	RGCGC!Y	8	16; 110; 299; 581; 2710; 2718; 3446; 5121
HaeIII	GG!CC	31	73; 167; 320; 470; 491; 559; 569; 631; 668; 973; 1818; 1893; 1974; 2075; 2409; 2551; 3206; 3212; 3221; 3264; 3351; 3525; 3916; 3943; 4452; 4509; 4542; 4887; 5321; 5339; 5350
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	4	860; 945; 1442; 3639
HaeIV	!NNNNNNNNNGAYNNNNNRTC	4	826; 911; 1408; 3605
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	4	859; 944; 1441; 3638
HaeIV	!NNNNNNNGAYNNNNNRTC	4	828; 913; 1410; 3607
HapII	C!CGG	25	19; 75; 85; 245; 605; 806; 812; 827; 862; 2661; 3348; 3425; 3447; 3475; 3606; 3696; 3763; 3944; 4219; 4227; 4319; 4793; 4983; 5009; 5156
HgaI	GACGCNNNNN!	3	811; 4153; 4232
HgaI	!NNNNNNNNNNNGCGTC	3	2776; 4671; 5249
HhaI	GCG!C	29	15; 109; 298; 377; 418; 580; 770; 772; 876; 2709; 2717; 2743; 2765; 2774; 2787; 2818; 3437; 3445; 3509; 3546; 3812; 4072; 4248; 4334; 4737; 4846; 5020; 5120; 5187

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hin1I	GR!CGYC	6	107; 296; 803; 3443; 4145; 4224
Hin1II	CATG!	21	99; 354; 699; 853; 900; 1071; 1616; 1835; 2873; 3013; 3085; 3176; 3317; 3662; 3848; 3879; 3905; 4261; 4645; 5365; 5416
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	5	840; 944; 1441; 2111; 3638
Hin4I	!NNNNNNNNGABNNNNNNRTC	5	827; 912; 1409; 3606; 3636
Hin4I	GABNNNNNNRTCNNNNNNNNNNNNNN!	5	859; 944; 1441; 3638; 3668
Hin4I	!NNNNNNNNNGAYNNNNNVTC	6	808; 827; 912; 1409; 2079; 3606
Hin6I	G!CGC	29	13; 107; 296; 375; 416; 578; 768; 770; 874; 2707; 2715; 2741; 2763; 2772; 2785; 2816; 3435; 3443; 3507; 3544; 3810; 4070; 4246; 4332; 4735; 4844; 5018; 5118; 5185
HinP1I	G!CGC	29	13; 107; 296; 375; 416; 578; 768; 770; 874; 2707; 2715; 2741; 2763; 2772; 2785; 2816; 3435; 3443; 3507; 3544; 3810; 4070; 4246; 4332; 4735; 4844; 5018; 5118; 5185
HincII	GTY!RAC	2	59; 2206
HindII	GTY!RAC	2	59; 2206
HindIII	A!AGCTT	1	40
HinfI	G!ANTC	16	22; 507; 842; 1015; 1805; 2088; 2486; 2508; 2918; 3928; 4062; 4114; 4172; 4209; 4991; 5387
HpaI	GTT!AAC	1	2206
HpaII	C!CGG	25	19; 75; 85; 245; 605; 806; 812; 827; 862; 2661; 3348; 3425; 3447; 3475; 3606; 3696; 3763; 3944; 4219; 4227; 4319; 4793; 4983; 5009; 5156
HphI	GGTGANNNNNNNN!	5	288; 435; 1024; 4514; 4630
HphI	!NNNNNNNTCACC	8	375; 516; 594; 727; 922; 1907; 2560; 3621
Hpy8I	GTN!NAC	9	59; 447; 675; 1471; 2206; 2490; 2507; 2562; 5049
Hpy99I	CGWCG!	9	63; 805; 3533; 3561; 3855; 3870; 4147; 4532; 5265
Hpy166II	GTN!NAC	9	59; 447; 675; 1471; 2206; 2490; 2507; 2562; 5049
Hpy188I	TCN!GA	15	27; 835; 1292; 1804; 1942; 2617; 3226; 3410; 3754; 4107; 4208; 4687; 4821; 5174; 5252
Hpy188III	TC!NNGA	29	31; 408; 432; 480; 511; 812; 839; 998; 1148; 2098; 2870; 2922; 3235; 3288; 3461; 3777; 3786; 3869; 3925; 3969; 4059; 4092; 4161; 4642; 4716; 4799; 4897; 4995; 5129
HpyAV	CCTTCNNNNNN!	8	183; 396; 438; 591; 1056; 4088; 4195; 4874
HpyAV	!NNNNNGAAGG	12	324; 477; 750; 1072; 2064; 2676; 3571; 4300; 4316; 4499; 4816; 5126
HpyCH4III	ACN!GT	14	63; 765; 928; 1101; 1329; 1644; 2534; 3823; 3939; 4047; 4370; 4861; 5331; 5402
HpyCH4IV	A!CGT	15	137; 365; 494; 677; 707; 990; 1873; 2503; 2515; 2558; 2668; 3559; 3746; 4527; 4660
HpyCH4V	TG!CA	30	54; 239; 350; 369; 675; 937; 988; 1130; 1374; 1502; 1624; 1682; 1698; 1928; 2192; 2219; 2287; 3004; 3013; 3076; 3085; 3200; 3276; 3335; 3494; 3669; 3683; 4753; 5049; 5416
HpyF3I	C!TNAG	15	24; 715; 832; 999; 1146; 1291; 1803; 1988; 2038; 2923; 3225; 4106; 4555; 4678; 5087
HpyF10VI	GCNNNNN!NNGC	29	185; 206; 245; 302; 575; 614; 871; 943; 982; 1959; 2670; 2700; 2727; 2769; 3010; 3082; 3133; 3212; 3434; 3518; 3541; 3680; 3803; 3886; 4153; 4340; 4544; 4743; 5315
Hsp92I	GR!CGYC	6	107; 296; 803; 3443; 4145; 4224
Hsp92II	CATG!	21	99; 354; 699; 853; 900; 1071; 1616; 1835; 2873; 3013; 3085; 3176; 3317; 3662; 3848; 3879; 3905; 4261; 4645; 5365; 5416
HspAI	G!CGC	29	13; 107; 296; 375; 416; 578; 768; 770; 874; 2707; 2715; 2741; 2763; 2772; 2785; 2816; 3435; 3443; 3507; 3544; 3810; 4070; 4246; 4332; 4735; 4844; 5018; 5118; 5185
KasI	G!GCGCC	3	106; 295; 3442
KflI	GG!GWCCC	1	1024
KpnI	GGTAC!C	1	67
Kpn2I	T!CCGGA	1	811
KspI	CCGC!GG	2	70; 186
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	2206
Kzo9I	!GATC	28	27; 78; 128; 552; 599; 633; 732; 835; 956; 994; 1150; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
LguI	GCTCTTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LguI	!NNNNGAAGAGC	3	568; 3787; 3997
LpnI	RGC!GCGY	8	14; 108; 297; 579; 2708; 2716; 3444; 5119
LpnPI	CCDGNNNNNNNNNN!	69	32; 88; 124; 219; 241; 258; 276; 298; 313; 484; 550; 583; 618; 655; 766; 819; 840; 875; 922; 947; 1011; 1766; 1878; 1936; 1983; 2180; 2485; 2674; 2897; 2935; 2951; 2991; 3046; 3063; 3163; 3248; 3361; 3438; 3460; 3483; 3619; 3633; 3652; 3709; 3776; 3826; 3842; 3899; 3957; 4166; 4232; 4256; 4332; 4421; 4524; 4557; 4788; 4806; 4952; 4972; 4996; 5022; 5071; 5169; 5214; 5244; 5323; 5348; 5385
LpnPI	!NNNNNNNNNNNNNCHGG	66	4; 60; 230; 249; 355; 457; 484; 531; 590; 791; 812; 847; 895; 994; 1078; 1133; 1475; 1574; 1640; 1778; 1851; 1875; 1914; 1939; 2041; 2526; 2646; 2703; 2766; 2964; 2976; 3036; 3048; 3280; 3325; 3368; 3410; 3432; 3460; 3507; 3569; 3591; 3681; 3748; 3771; 3815; 3910; 3929; 3954; 4103; 4204; 4247; 4304; 4394; 4497; 4524; 4542; 4778; 4815; 4968; 4994; 5134; 5152; 5187; 5268; 5321
Lsp1109I	GCAGCNNNNNNNN!	11	113; 452; 620; 949; 1754; 2231; 3516; 3558; 4079; 4532; 5032
Lsp1109I	!NNNNNNNNNNNGCTGC	10	334; 878; 972; 1919; 2725; 3390; 3574; 3667; 4733; 4939
LweI	GCATCNNNNNN!	8	188; 1139; 2259; 3022; 3094; 3742; 3806; 4081
LweI	!NNNNNNNNNGATGC	6	192; 213; 3401; 3656; 3872; 5264
MabI	A!CCWGGT	1	3032
MaeI	C!TAG	11	10; 953; 1336; 1814; 2098; 2292; 2710; 3266; 4281; 4615; 4868
MaeII	A!CGT	15	137; 365; 494; 677; 707; 990; 1873; 2503; 2515; 2558; 2668; 3559; 3746; 4527; 4660
MaeIII	!GTNAC	17	276; 423; 726; 928; 977; 1088; 1304; 1708; 2231; 2732; 2744; 3563; 3869; 4559; 4825; 4941; 5004
MalI	GA!TC	28	29; 80; 130; 554; 601; 635; 734; 837; 958; 996; 1152; 2102; 3282; 3286; 3305; 3616; 3694; 3775; 3784; 3862; 4238; 4254; 4613; 4625; 4703; 4711; 4722; 4797
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2867; 4056
MbiI	GAG!CGG	3	917; 2703; 4110
MboI	!GATC	28	27; 78; 128; 552; 599; 633; 732; 835; 956; 994; 1150; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
MboII	GAAGANNNNNNNN!	6	585; 2699; 2927; 3804; 4014; 4633
MboII	!NNNNNNNTCTTC	7	1217; 1519; 1841; 4094; 4261; 4461; 4704
McaTI	GCGC!GC	1	771
MfeI	C!AATTG	2	1185; 2193
MflI	R!GATCY	12	27; 78; 128; 835; 994; 3614; 3860; 4252; 4611; 4623; 4709; 4720
MhII	GDGCH!C	16	38; 75; 257; 263; 271; 677; 683; 909; 2634; 3389; 3482; 3556; 3746; 3808; 4518; 5051
MlsI	TGG!CCA	4	167; 470; 491; 3525
MluI	A!CGCGT	0	
MluNI	TGG!CCA	4	167; 470; 491; 3525
MlyI	GAGTCNNNNN!	4	1024; 1814; 2495; 2927
MlyI	!NNNNNGACTC	4	16; 2502; 4108; 4985
Mly113I	GG!CGCC	3	107; 296; 3443
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	2	2068; 2536
MmeI	!NNNNNNNNNNNNNNNNNNNNNGTYGGA	2	4968; 5152
MnII	CCTCNNNNNNNN!	10	1627; 1863; 2105; 2162; 3226; 4044; 4250; 4564; 4934; 5258
MnII	!NNNNNGAGG	16	144; 384; 414; 1715; 2122; 2587; 2918; 3196; 3239; 3254; 3294; 3358; 3494; 3851; 4281; 5184
Mph1103I	ATGCA!T	3	3015; 3087; 5418
MreI	CG!CCGGCG	1	861
MroI	T!CCGGA	1	811
MroNI	G!CCGGC	4	861; 2660; 3943; 4226
MroXI	GAANN!NNTTC	1	334
MscI	TGG!CCA	4	167; 470; 491; 3525

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MseI	T!TAA	27	1061; 1202; 1252; 1260; 1301; 1310; 1412; 1447; 1462; 1514; 1534; 1660; 2019; 2144; 2205; 2326; 2347; 2358; 2370; 2381; 2398; 2496; 2767; 4586; 4600; 4605; 4657
MslII	CAYNN!NNRTG	5	274; 643; 1135; 1439; 3880
MspI	C!CGG	25	19; 75; 85; 245; 605; 806; 812; 827; 862; 2661; 3348; 3425; 3447; 3475; 3606; 3696; 3763; 3944; 4219; 4227; 4319; 4793; 4983; 5009; 5156
Msp20I	TGG!CCA	4	167; 470; 491; 3525
MspAII	CMG!CKG	7	69; 104; 185; 2941; 3549; 4778; 5023
MspCI	C!TTAAG	1	2325
MspJI	CNNRNNNNNNNNNN!	273	22; 36; 49; 80; 97; 123; 138; 181; 196; 218; 239; 257; 270; 285; 298; 311; 324; 340; 354; 367; 382; 402; 420; 444; 466; 483; 505; 523; 542; 558; 572; 597; 617; 639; 653; 667; 682; 695; 708; 727; 743; 765; 781; 796; 818; 833; 846; 862; 887; 900; 914; 930; 946; 965; 987; 1001; 1021; 1041; 1080; 1105; 1129; 1158; 1192; 1220; 1244; 1263; 1288; 1303; 1321; 1338; 1379; 1393; 1434; 1447; 1486; 1502; 1567; 1585; 1601; 1625; 1644; 1667; 1695; 1711; 1725; 1741; 1765; 1805; 1821; 1839; 1857; 1870; 1886; 1902; 1919; 1935; 1948; 1966; 1982; 2000; 2013; 2049; 2063; 2089; 2110; 2126; 2150; 2167; 2180; 2221; 2235; 2248; 2266; 2304; 2319; 2337; 2378; 2402; 2422; 2440; 2461; 2484; 2516; 2531; 2553; 2571; 2584; 2605; 2622; 2635; 2648; 2664; 2677; 2707; 2722; 2747; 2765; 2778; 2793; 2817; 2831; 2855; 2880; 2896; 2934; 2950; 2989; 3003; 3017; 3045; 3061; 3075; 3089; 3118; 3131; 3152; 3161; 3183; 3213; 3229; 3247; 3277; 3300; 3324; 3348; 3367; 3395; 3421; 3437; 3450; 3473; 3487; 3507; 3520; 3534; 3553; 3567; 3580; 3596; 3611; 3624; 3640; 3655; 3671; 3696; 3715; 3731; 3744; 3757; 3775; 3789; 3803; 3819; 3841; 3857; 3876; 3898; 3914; 3937; 3956; 3970; 3986; 4000; 4020; 4036; 4049; 4071; 4104; 4118; 4138; 4151; 4165; 4219; 4232; 4255; 4268; 4287; 4304; 4331; 4367; 4400; 4419; 4444; 4465; 4492; 4505; 4522; 4536; 4551; 4567; 4627; 4652; 4668; 4690; 4703; 4717; 4748; 4762; 4787; 4805; 4820; 4833; 4852; 4865; 4880; 4909; 4928; 4946; 4971; 4986; 5005; 5021; 5040; 5058; 5074; 5088; 5107; 5134; 5157; 5179; 5198; 5213; 5226; 5243; 5263; 5290; 5303; 5322; 5347; 5370; 5384; 5397; 5414
MspJI	!NNNNNNNNNNNNNYNG	224	5; 25; 54; 71; 97; 122; 145; 162; 182; 202; 222; 242; 259; 278; 298; 328; 350; 374; 394; 416; 440; 457; 479; 496; 523; 541; 576; 598; 628; 645; 662; 682; 702; 725; 751; 772; 792; 812; 831; 848; 874; 895; 920; 939; 961; 984; 1006; 1042; 1061; 1079; 1096; 1119; 1144; 1183; 1216; 1253; 1276; 1317; 1336; 1357; 1427; 1452; 1475; 1532; 1574; 1599; 1640; 1665; 1705; 1739; 1763; 1788; 1809; 1851; 1868; 1888; 1909; 1926; 1944; 1965; 1987; 2016; 2042; 2063; 2084; 2109; 2153; 2195; 2278; 2313; 2340; 2363; 2392; 2436; 2458; 2490; 2526; 2543; 2564; 2601; 2621; 2638; 2655; 2690; 2708; 2726; 2743; 2767; 2789; 2816; 2844; 2870; 2908; 2929; 2946; 2964; 2987; 3008; 3036; 3059; 3080; 3098; 3119; 3136; 3159; 3183; 3203; 3221; 3243; 3274; 3296; 3322; 3341; 3358; 3386; 3405; 3424; 3442; 3460; 3481; 3503; 3527; 3560; 3580; 3598; 3619; 3645; 3672; 3689; 3706; 3723; 3749; 3771; 3793; 3811; 3831; 3850; 3872; 3910; 3930; 3954; 3974; 3994; 4021; 4045; 4078; 4097; 4125; 4147; 4176; 4204; 4229; 4248; 4267; 4288; 4305; 4322; 4353; 4380; 4400; 4423; 4443; 4480; 4497; 4516; 4542; 4562; 4601; 4628; 4647; 4665; 4702; 4720; 4761; 4779; 4805; 4822; 4854; 4883; 4911; 4932; 4955; 4974; 4995; 5013; 5030; 5048; 5074; 5095; 5115; 5135; 5153; 5174; 5200; 5217; 5236; 5255; 5284; 5303; 5321; 5340; 5358; 5376; 5399
MspR9I	CC!NGG	21	75; 76; 264; 274; 472; 910; 1866; 1971; 2979; 3034; 3051; 3447; 3607; 3830; 4220; 4409; 4512; 4984; 5202; 5215; 5336
MssI	GTTT!AAAC	0	
MunI	C!AATTG	2	1185; 2193
MvaI	CC!WGG	15	264; 274; 472; 910; 1866; 1971; 2979; 3034; 3051; 3830; 4409; 4512; 5202; 5215; 5336

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MvaI269I	GAATGCN!	1	2194
MvaI269I	G!CATTC	1	2287
MvnI	CG!CG	20	69; 185; 416; 455; 740; 770; 976; 2367; 2743; 2763; 2787; 2818; 3509; 3810; 4248; 4332; 4395; 4464; 4737; 5318
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	29	185; 206; 245; 302; 575; 614; 871; 943; 982; 1959; 2670; 2700; 2727; 2769; 3010; 3082; 3133; 3212; 3434; 3518; 3541; 3680; 3803; 3886; 4153; 4340; 4544; 4743; 5315
NaeI	GCC!GGC	4	863; 2662; 3945; 4228
NarI	GG!CGCC	3	107; 296; 3443
NciI	CC!SGG	6	75; 76; 3447; 3607; 4220; 4984
NcoI	C!CATGG	3	849; 3172; 3875
NdeI	CA!TATG	0	
NdeII	!GATC	28	27; 78; 128; 552; 599; 633; 732; 835; 956; 994; 1150; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	302
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	266
NgoMIV	G!CCGGC	4	861; 2660; 3943; 4226
NheI	G!CTAGC	0	
NlaIII	CATG!	21	99; 354; 699; 853; 900; 1071; 1616; 1835; 2873; 3013; 3085; 3176; 3317; 3662; 3848; 3879; 3905; 4261; 4645; 5365; 5416
NlaIV	GGN!NCC	24	65; 73; 80; 108; 297; 321; 669; 810; 996; 1025; 2026; 2598; 2619; 2631; 2822; 2983; 3055; 3444; 3479; 4327; 4406; 4451; 5294; 5333
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	5	405; 1920; 2275; 2590; 4182
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	1	5254
Nli3877I	CYCGR!G	4	35; 78; 326; 686
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	444; 3232; 3668
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	3197
NmeDI	RCCGGYNNNNNN!	9	96; 256; 616; 817; 873; 2672; 3774; 3955; 4238
NmeDI	!NNNNNNNNNNNNRCCGGY	9	71; 231; 591; 792; 848; 2647; 3749; 3930; 4213
NmuCI	!GTSAC	8	276; 423; 726; 928; 977; 2732; 3563; 3869
NotI	GC!GGCCGC	1	971
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3545
NsiI	ATGCA!T	3	3015; 3087; 5418
NspI	RCATG!Y	5	354; 3013; 3085; 3848; 5365
NspV	TT!CGAA	2	45; 4125
OliI	CACNN!NNGTG	1	274
PabI	GTA!C	9	66; 317; 449; 542; 689; 1099; 1341; 1473; 3750
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	354; 3013; 3085; 3848
PaeR7I	C!TCGAG	1	31
PagI	T!CATGA	2	2869; 4641
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4408; 4511
PauI	G!CGCGC	1	768
PceI	AGG!CCT	1	3264
PciI	A!CATGT	1	5361
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	568; 3787; 3997
PcsI	WCGNNNN!NNNCGW	6	3737; 3814; 4057; 4131; 4524; 5042
PctI	GAATGCN!	1	2194
PctI	G!CATTC	1	2287
PdiI	GCC!GGC	4	863; 2662; 3945; 4228
PdmI	GAANN!NNTTC	1	334
PfeI	G!AWTC	8	507; 842; 2088; 3928; 4062; 4172; 4209; 5387
Pfl23II	C!GTACG	0	
PfIF1	GACN!NNGTC	1	3561
PfIMI	CCANNNN!NTGG	1	498
PfoI	T!CCNGGA	1	4218



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PhoI	GG!CC	31	73; 167; 320; 470; 491; 559; 569; 631; 668; 973; 1818; 1893; 1974; 2075; 2409; 2551; 3206; 3212; 3221; 3264; 3351; 3525; 3916; 3943; 4452; 4509; 4542; 4887; 5321; 5339; 5350
PinAI	A!CCGGT	1	84
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	2	1157; 3824
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	1693; 3389; 3644
PleI	GAGTCNNNN!	4	1023; 1813; 2494; 2926
PleI	!NNNNNGACTC	4	16; 2502; 4108; 4985
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	4	495; 678; 708; 991
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	4	495; 678; 708; 991
PpiI	GAACNNNNNNCTCNNNNNNNNNNNNNNNNNN!	1	2525
PpiI	!NNNNNNNNNGAGNNNNNNNGTTC	1	4655
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNNNNNN!	1	4687
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2493
PpsI	GAGTCNNNN!	4	1023; 1813; 2494; 2926
PpsI	!NNNNNGACTC	4	16; 2502; 4108; 4985
Ppu10I	A!TGCAT	3	3011; 3083; 5414
Ppu21I	YAC!GTR	8	138; 366; 495; 678; 708; 991; 2559; 3747
PpuMI	RG!GWCCY	1	1024
PscI	A!CATGT	1	5361
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	2	2226; 2431
Psp03I	GGWC!C	4	927; 1027; 3962; 4407
Psp5II	RG!GWCCY	1	1024
Psp6I	!CCWGG	15	262; 272; 470; 908; 1864; 1969; 2977; 3032; 3049; 3828; 4407; 4510; 5200; 5213; 5334
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	38
PspCI	CAC!GTG	4	495; 678; 708; 991
PspEI	G!GTNACC	2	276; 423
PspGI	!CCWGG	15	262; 272; 470; 908; 1864; 1969; 2977; 3032; 3049; 3828; 4407; 4510; 5200; 5213; 5334
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	24	65; 73; 80; 108; 297; 321; 669; 810; 996; 1025; 2026; 2598; 2619; 2631; 2822; 2983; 3055; 3444; 3479; 4327; 4406; 4451; 5294; 5333
PspOMI	G!GGCCC	1	71
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	3	323; 3173; 4172
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3575
PspPI	G!GNCC	16	71; 72; 319; 667; 924; 1024; 1817; 1892; 1973; 2073; 2550; 3959; 4404; 4450; 4508; 4541
PspPPI	RG!GWCCY	1	1024
PspPRI	CCYCAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	3	2996; 3068; 4574
PspPRI	!NNNNNNNNNNNNNNCTGRGG	4	532; 2042; 2909; 4104
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	0	
PsrI	!NNNNNNNNGTANNNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	4	1027; 1820; 2076; 4544
PstI	CTGCA!G	2	56; 939
PstNI	CAGNNN!CTG	3	1865; 4544; 4952
PsuI	R!GATCY	12	27; 78; 128; 835; 994; 3614; 3860; 4252; 4611; 4623; 4709; 4720
PsyI	GACN!NNGTC	1	3561
PteI	G!CGCGC	1	768
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2941; 3549
RcaI	T!CATGA	2	2869; 4641
RceI	CATCGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	1	3958
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNN!	3	1873; 1992; 2172
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	9	65; 316; 448; 541; 688; 1098; 1340; 1472; 3749
RsaNI	G!TAC	9	64; 315; 447; 540; 687; 1097; 1339; 1471; 3748
RseI	CAYNN!NNRTG	5	274; 643; 1135; 1439; 3880
RsrI1	CG!GWCCG	1	3959
Rsr2I	CG!GWCCG	1	3959
SacI	GAGCT!C	1	38
SacII	CCGC!GG	2	70; 186
SalI	G!TCGAC	1	57
SapI	GCTCTTCN!	0	
SapI	!NNNGAAGAGC	3	568; 3787; 3997
SaqAI	T!TAA	27	1061; 1202; 1252; 1260; 1301; 1310; 1412; 1447; 1462; 1514; 1534; 1660; 2019; 2144; 2205; 2326; 2347; 2358; 2370; 2381; 2398; 2496; 2767; 4586; 4600; 4605; 4657
SatI	GC!NGC	45	102; 105; 186; 348; 441; 609; 663; 666; 783; 872; 892; 938; 971; 974; 986; 1743; 1933; 2220; 2739; 2761; 2775; 3213; 3352; 3404; 3415; 3505; 3510; 3547; 3588; 3675; 3678; 3681; 3917; 4013; 4054; 4068; 4182; 4521; 4536; 4747; 4953; 4956; 5021; 5164; 5319
Sau96I	G!GNCC	16	71; 72; 319; 667; 924; 1024; 1817; 1892; 1973; 2073; 2550; 3959; 4404; 4450; 4508; 4541
Sau3AI	!GATC	28	27; 78; 128; 552; 599; 633; 732; 835; 956; 994; 1150; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	1024; 1814; 2495; 2927
SchI	!NNNNNGACTC	4	16; 2502; 4108; 4985
SciI	CTC!GAG	1	33
ScrFI	CC!NGG	21	75; 76; 264; 274; 472; 910; 1866; 1971; 2979; 3034; 3051; 3447; 3607; 3830; 4220; 4409; 4512; 4984; 5202; 5215; 5336
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	6	396; 936; 3021; 3093; 3262; 5204
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	4	927; 1843; 3598; 4083
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	16	38; 75; 257; 263; 271; 677; 683; 909; 2634; 3389; 3482; 3556; 3746; 3808; 4518; 5051
SelI	!CGCG	20	67; 183; 414; 453; 738; 768; 974; 2365; 2741; 2761; 2785; 2816; 3507; 3808; 4246; 4330; 4393; 4462; 4735; 5316
SetI	ASST!	70	38; 44; 140; 175; 221; 292; 329; 349; 368; 388; 425; 430; 464; 497; 680; 703; 710; 716; 793; 826; 987; 993; 1726; 1747; 1758; 1815; 1864; 1876; 1994; 2026; 2133; 2154; 2163; 2175; 2224; 2391; 2506; 2518; 2561; 2598; 2648; 2671; 2795; 2943; 3038; 3231; 3344; 3472; 3551; 3562; 3634; 3705; 3749; 4009; 4155; 4199; 4530; 4561; 4620; 4663; 4806; 4827; 4926; 5063; 5078; 5097; 5109; 5153; 5199; 5250
SexAI	A!CCWGGT	1	3032
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	188; 1139; 2259; 3022; 3094; 3742; 3806; 4081
SfaNI	!NNNNNNNNNGATGC	6	192; 213; 3401; 3656; 3872; 5264
SfcI	C!TRYAG	5	52; 935; 2778; 4905; 5096
SfiI	GGCCNNNN!NGGCC	1	3218
SfoI	GGC!GCC	3	108; 297; 3444

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sfr274I	C!TCGAG	1	31
Sfr303I	CCGC!GG	2	70; 186
SfuI	TT!CGAA	2	45; 4125
SgeI	CNNGNNNNNNNNNN!	208	6; 22; 43; 80; 97; 123; 138; 196; 218; 240; 257; 270; 285; 312; 334; 354; 367; 382; 402; 420; 444; 466; 483; 505; 523; 549; 568; 582; 607; 624; 639; 654; 682; 696; 718; 732; 751; 765; 781; 798; 818; 833; 851; 870; 889; 909; 922; 946; 965; 987; 1001; 1021; 1041; 1080; 1105; 1160; 1220; 1348; 1502; 1601; 1625; 1667; 1765; 1805; 1822; 1844; 1877; 1890; 1935; 1966; 1982; 2005; 2068; 2089; 2110; 2150; 2179; 2221; 2304; 2378; 2462; 2484; 2516; 2553; 2571; 2590; 2605; 2647; 2664; 2681; 2716; 2730; 2747; 2769; 2793; 2817; 2882; 2896; 2934; 2950; 2990; 3003; 3022; 3045; 3062; 3075; 3094; 3124; 3145; 3162; 3185; 3220; 3247; 3278; 3300; 3326; 3348; 3367; 3395; 3431; 3450; 3473; 3487; 3507; 3520; 3534; 3553; 3567; 3586; 3618; 3632; 3645; 3671; 3702; 3715; 3732; 3749; 3763; 3780; 3798; 3813; 3841; 3857; 3876; 3898; 3914; 3937; 3956; 3981; 4000; 4020; 4047; 4071; 4104; 4123; 4151; 4165; 4231; 4255; 4270; 4293; 4314; 4331; 4379; 4406; 4420; 4449; 4473; 4506; 4523; 4543; 4556; 4569; 4627; 4654; 4673; 4703; 4728; 4748; 4762; 4787; 4805; 4842; 4880; 4909; 4937; 4951; 4971; 4986; 5007; 5021; 5040; 5058; 5074; 5114; 5134; 5161; 5179; 5200; 5213; 5226; 5243; 5267; 5290; 5322; 5347; 5374; 5396
SgeI	!NNNNNNNNNNNNNCNNG	182	5; 25; 54; 71; 97; 124; 170; 192; 214; 231; 249; 271; 298; 328; 352; 376; 394; 418; 440; 457; 479; 497; 523; 542; 581; 598; 628; 656; 682; 706; 725; 751; 772; 792; 813; 836; 863; 883; 904; 927; 961; 984; 1015; 1054; 1079; 1134; 1194; 1322; 1476; 1575; 1599; 1641; 1739; 1779; 1796; 1818; 1851; 1876; 1909; 1940; 1957; 1979; 2042; 2063; 2084; 2124; 2153; 2195; 2278; 2352; 2436; 2458; 2490; 2527; 2545; 2564; 2621; 2638; 2655; 2690; 2708; 2728; 2748; 2767; 2791; 2856; 2908; 2964; 2996; 3019; 3036; 3068; 3098; 3119; 3136; 3159; 3194; 3221; 3252; 3274; 3300; 3322; 3341; 3369; 3405; 3424; 3447; 3468; 3486; 3503; 3527; 3560; 3592; 3619; 3645; 3676; 3706; 3723; 3749; 3772; 3793; 3815; 3835; 3855; 3872; 3911; 3930; 3955; 3974; 3994; 4021; 4045; 4078; 4097; 4125; 4147; 4205; 4229; 4248; 4267; 4288; 4305; 4353; 4380; 4400; 4423; 4447; 4480; 4497; 4517; 4543; 4601; 4628; 4647; 4677; 4702; 4722; 4761; 4779; 4816; 4854; 4883; 4911; 4932; 4960; 4981; 5014; 5032; 5088; 5108; 5135; 5153; 5174; 5200; 5217; 5241; 5264; 5296; 5321; 5348; 5370; 5399
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	2	244; 861
SgrBI	CCGC!GG	2	70; 186
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	2590; 4377; 5170
SimI	!GACCC	5	410; 1024; 3871; 4439; 4687
SinI	G!GWCC	4	924; 1024; 3959; 4404
SlaI	C!TCGAG	1	31
SmaI	CCC!GGG	1	76
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	274; 643; 1135; 1439; 3880
SmlI	C!TYRAG	8	31; 37; 2077; 2325; 3834; 4716; 4993; 5255
SmoI	C!TYRAG	8	31; 37; 2077; 2325; 3834; 4716; 4993; 5255
SmuI	CCCGC!NNN!	7	421; 866; 2765; 3120; 3141; 4337; 4469
SmuI	!NNNNNNGCGGG	7	62; 910; 2696; 3566; 4103; 4241; 4388
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	354; 3013; 3085; 3848
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	22	47; 402; 519; 1185; 1203; 1234; 1413; 1495; 1509; 1649; 1704; 1911; 2010; 2193; 2257; 2335; 2361; 2372; 3019; 3091; 3183; 4601
Sse8387I	CCTGCA!GG	0	



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Tsp509I	!AATT	22	47; 402; 519; 1185; 1203; 1234; 1413; 1495; 1509; 1649; 1704; 1911; 2010; 2193; 2257; 2335; 2361; 2372; 3019; 3091; 3183; 4601
TspDTI	ATGAANNNNNNNNNNN!	5	661; 2083; 2201; 3502; 4206
TspDTI	!NNNNNNNNNTTCAT	10	222; 612; 1056; 1168; 1369; 1717; 1826; 3920; 4376; 4583
TspEI	!AATT	22	47; 402; 519; 1185; 1203; 1234; 1413; 1495; 1509; 1649; 1704; 1911; 2010; 2193; 2257; 2335; 2361; 2372; 3019; 3091; 3183; 4601
TspGWI	ACGGANNNNNNNNNNN!	1	4318
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	74
TspRI	CASTGNN!	10	307; 538; 1140; 1649; 1930; 2289; 3572; 4682; 4953; 4966
TstI	CACNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	1	1345
TstI	GGANNNNNGTGNNNNNNNNNNNNNN!	1	1377
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3561
Tth111II	CAARCANNNNNNNNNNNN!	1	4770
Tth111III	!NNNNNNNNNTGYTTG	3	3878; 4738; 4777
UnbI	!GGNCC	16	70; 71; 318; 666; 923; 1023; 1816; 1891; 1972; 2072; 2549; 3958; 4403; 4449; 4507; 4540
Van91I	CCANNNN!NTGG	1	498
Vha464I	C!TTAAG	1	2325
VneI	G!TGCAC	2	673; 5047
VpaK11AI	!GGWCC	4	923; 1023; 3958; 4403
VpaK11BI	G!GWCC	4	924; 1024; 3959; 4404
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	5	47; 1911; 2257; 2361; 2372
XbaI	T!CTAGA	1	2097
XceI	RCATG!Y	5	354; 3013; 3085; 3848; 5365
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	31
XhoII	R!GATCY	12	27; 78; 128; 835; 994; 3614; 3860; 4252; 4611; 4623; 4709; 4720
XmaI	C!CCGGG	1	74
XmaJI	C!CTAGG	2	3265; 4280
XmiI	GT!MKAC	1	58
XmnI	GAANN!NNTTC	1	334
XspI	C!TAG	11	10; 953; 1336; 1814; 2098; 2292; 2710; 3266; 4281; 4615; 4868
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3015; 3087; 5418