

peNirFP-N vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2640; 2845
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2928; 3884; 5673
AatI	AGG!CCT	1	3678
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	640
AccII	CG!CG	16	60; 651; 1390; 2781; 3157; 3177; 3201; 3232; 3923; 4224; 4662; 4746; 4809; 4878; 5151; 5732
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	3959
Acc36I	ACCTGCNNNN!	4	1202; 1364; 4125; 4575
Acc36I	!NNNNNNNNGCAGGT	1	3744
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	7	465; 645; 736; 796; 3010; 3856; 3891
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	3281; 4470
AccBSI	GAG!CGG	3	1384; 3117; 4524
AceIII	CAGCTCNNNNNNN!	2	2286; 2813
AceIII	!NNNNNNNNNNNGAGCTG	2	552; 682
AciI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 649; 995; 1133; 1235; 1388; 1645; 3172; 3175; 3189; 3279; 3527; 3539; 3548; 3560; 3570; 3581; 3627; 3766; 3829; 4331; 4376; 4442; 4468; 4593; 4596; 4744; 4876; 5183; 5327; 5823
AciI	G!CGG	28	370; 403; 528; 651; 830; 1142; 1184; 1384; 3117; 3144; 3232; 3342; 3923; 3987; 4088; 4091; 4371; 4426; 4524; 4662; 4809; 4949; 5192; 5437; 5558; 5577; 5704; 5732
AcI	AA!CGTT	0	
AcIWI	GGATCNNNN!	11	668; 970; 1416; 1572; 3725; 4036; 4282; 4674; 5033; 5131; 5217
AcIWI	!NNNNNGATCC	8	580; 655; 1217; 1403; 4101; 4645; 5032; 5129
AcoI	Y!GGCCR	7	747; 1340; 1385; 3763; 3937; 4328; 4355
AcsI	R!AATTY	5	629; 2325; 2671; 2775; 2786
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	1192; 4003; 4435
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	1405; 5233
AcvI	CAC!GTG	1	1405
AcyI	GR!CGYC	7	122; 175; 258; 444; 3857; 4559; 4638
AdeI	CACNNN!GTG	1	2973
AfaI	GT!AC	15	219; 244; 299; 332; 383; 540; 647; 727; 877; 1129; 1348; 1512; 1754; 1886; 4163
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	21	49; 793; 906; 1072; 1281; 1904; 2869; 3195; 3587; 3838; 4382; 4663; 4695; 4827; 4862; 4912; 4944; 5297; 5576; 5742; 5760
AflII	C!TTAAG	1	2739
AflIII	A!CRYGT	1	5775
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	6	759; 3268; 3312; 3322; 3735; 5311
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	17	88; 281; 857; 905; 1001; 1342; 2278; 2383; 3391; 3446; 3463; 4242; 4821; 4924; 5614; 5627; 5748
AjuI	GAANNNNNNNNTTGGNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNCCAANNNTTC	0	
AjuI	CCAANNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNTTGG	0	
AleI	CACNN!NNGTG	0	
AlfI	GCANNNTGCNNNNNNNNNN!	2	3431; 3503
AlfI	!NNNNNNNNNGCANNNTGC	2	3397; 3469
AloI	GAACNNNTCCNNNNNNNNNN!	2	1083; 2939
AloI	!NNNNNNNGGANNTGTC	0	
AloI	GGANNNTGTCNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNTCC	2	1051; 2907
AluI	AG!CT	24	566; 618; 624; 696; 869; 1176; 1379; 1399; 2159; 2170; 2227; 2276; 2406; 2636; 2803; 3060; 3355; 3643; 3963; 4421; 5218; 5475; 5521; 5611
AluBI	AG!CT	24	566; 618; 624; 696; 869; 1176; 1379; 1399; 2159; 2170; 2227; 2276; 2406; 2636; 2803; 3060; 3355; 3643; 3963; 4421; 5218; 5475; 5521; 5611
AlwI	GGATCNNNN!	11	668; 970; 1416; 1572; 3725; 4036; 4282; 4674; 5033; 5131; 5217
AlwI	!NNNNNGATCC	8	580; 655; 1217; 1403; 4101; 4645; 5032; 5129
Alw21I	GWGCW!C	5	620; 766; 3970; 4160; 5465
Alw26I	GTCTCN!	2	434; 1563
Alw26I	!NNNNNGAGAC	5	1303; 3281; 3699; 4718; 4846
Alw44I	G!TGCAC	2	762; 5461
AlwNI	CAGNNN!CTG	4	1349; 2279; 4958; 5366
Ama87I	C!YCGRG	2	613; 656
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNN!TGC	3	3425; 3497; 4959
ApaLI	G!TGCAC	2	762; 5461
ApeKI	G!CWGC	19	881; 1025; 1323; 1399; 2156; 2346; 2633; 3152; 3817; 3918; 3960; 4001; 4094; 4481; 4934; 5160; 5366; 5369; 5434
ApoI	RIAATTY	5	629; 2325; 2671; 2775; 2786
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4372
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4166; 4819; 5657
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	4256
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	857
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	1	3685
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	2	2246; 4427
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNTGTC	0	
ArsI	CRAANNNTGTCNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 610; 661; 699; 813; 963; 1047; 1223; 1409; 1565; 2515; 3695; 3699; 3718; 4029; 4107; 4188; 4197; 4275; 4651; 4667; 5026; 5038; 5116; 5124; 5135; 5210
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3975
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	3679; 4694
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	21	597; 3123; 3131; 3157; 3179; 3188; 3201; 3232; 3851; 3859; 3923; 3960; 4226; 4486; 4662; 4748; 5151; 5260; 5434; 5534; 5601
AspS9I	G!GNCC	18	83; 276; 654; 832; 1075; 1167; 1272; 1438; 2231; 2306; 2387; 2487; 2964; 4373; 4818; 4864; 4922; 4955
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 4539
AsuC2I	CC!SGG	7	657; 658; 1256; 3861; 4021; 4634; 5398

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AsuHPI	GGTGANNNNNNNN!	5	376; 1068; 1438; 4928; 5044
AsuHPI	!NNNNNNNTCACC	4	957; 2321; 2974; 4035
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	613; 656
AvaII	G!GWCC	4	1272; 1438; 4373; 4818
AviII	TGC!GCA	1	3959
AvrII	C!CTAGG	2	3679; 4694
AxyI	CC!TNAGG	3	941; 3337; 4969
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	657; 739; 766; 799; 1376; 3803; 3896; 5465
BalI	TGG!CCA	2	1342; 3939
BamHI	G!GATCC	2	660; 1408
BanI	G!GYRCC	7	465; 645; 736; 796; 3010; 3856; 3891
BanII	GRGCY!C	5	620; 657; 3048; 4222; 4932
BanIII	AT!CGAT	1	3697
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	0	
BauI	C!ACGAG	3	1327; 4575; 5602
BauI	C!TCGTG	2	1177; 4449
BbeI	GGCGC!C	1	3860
Bbr7I	GAAGACNNNNNN!	1	988
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	1	1405
BbsI	GAAGACNN!	1	983
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	3427; 3499; 4262
BbvI	GCAGCNNNNNNNN!	9	893; 1335; 2168; 2645; 3930; 3972; 4493; 4946; 5446
BbvI	!NNNNNNNNNNNGCTGC	9	1012; 1386; 2333; 3139; 3804; 3988; 4081; 5147; 5353
Bbv12I	GWGCW!C	5	620; 766; 3970; 4160; 5465
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	1074; 2317; 2987; 3551; 4077; 4579
BccI	!NNNNNGATGG	5	1158; 1326; 2955; 3735; 4163
BceAI	ACGGCNNNNNNNNNNNN!	6	762; 894; 1038; 1089; 4283; 4770
BceAI	!NNNNNNNNNNNNNGCCGT	3	2998; 3816; 5275
BcefI	ACGGCNNNNNNNNNNNN!	6	762; 894; 1038; 1089; 4283; 4770
BcefI	!NNNNNNNNNNNNNGCCGT	3	2999; 3817; 5276
BcgI	CGANNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3286; 4076; 5577
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	7	657; 658; 1256; 3861; 4021; 4634; 5398
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNNNN!	1	5710
BdaI	!NNNNNNNNNTGANNNNNTCA	1	5676
BfaI	C!TAG	11	592; 1361; 1750; 2228; 2512; 2706; 3124; 3680; 4695; 5029; 5282
BfiI	ACTGGGNNNNNN!	3	1378; 2479; 3806
BfiI	!NNNNCCAGT	2	289; 3558
BfmI	C!TRYAG	4	634; 3192; 5319; 5510
BfoI	RGCGC!Y	5	598; 3124; 3132; 3860; 5535
BfrI	C!TTAAG	1	2739
BfuI	GTATCCNNNNNN!	3	3286; 4076; 5577
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	1202; 1364; 4125; 4575

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BfuAI	!NNNNNNNNGCAGGT	1	3744
BfuCI	!GATC	27	585; 609; 660; 698; 812; 962; 1046; 1222; 1408; 1564; 2514; 3694; 3698; 3717; 4028; 4106; 4187; 4196; 4274; 4650; 4666; 5025; 5037; 5115; 5123; 5134; 5209
BglI	GCCNNNN!NGGC	4	90; 212; 283; 3632
BglII	A!GATCT	1	609
BisI	GC!NGC	37	831; 882; 1026; 1324; 1385; 1388; 1400; 2157; 2347; 2634; 3153; 3175; 3189; 3627; 3766; 3818; 3829; 3919; 3924; 3961; 4002; 4089; 4092; 4095; 4331; 4427; 4468; 4482; 4596; 4935; 4950; 5161; 5367; 5370; 5435; 5578; 5733
BlnI	C!CTAGG	2	3679; 4694
BlpI	GC!TNAGC	1	1380
BlsI	GCN!GC	37	832; 883; 1027; 1325; 1386; 1389; 1401; 2158; 2348; 2635; 3154; 3176; 3190; 3628; 3767; 3819; 3830; 3920; 3925; 3962; 4003; 4090; 4093; 4096; 4332; 4428; 4469; 4483; 4597; 4936; 4951; 5162; 5368; 5371; 5436; 5579; 5734
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	4	1272; 1438; 4373; 4818
Bme1390I	CC!NGG	24	90; 283; 657; 658; 859; 907; 1003; 1256; 1344; 2280; 2385; 3393; 3448; 3465; 3861; 4021; 4244; 4634; 4823; 4926; 5398; 5616; 5629; 5750
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	613; 656
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	18	84; 277; 655; 833; 1076; 1168; 1273; 1439; 2232; 2307; 2388; 2488; 2965; 4374; 4819; 4865; 4923; 4956
BmiI	GGN!NCC	22	467; 647; 655; 662; 738; 798; 1410; 1439; 2440; 3012; 3033; 3045; 3236; 3397; 3469; 3858; 3893; 4741; 4820; 4865; 5708; 5747
BmrI	ACTGGGNNNNN!	3	1378; 2479; 3806
BmrI	!NNNNCCAGT	2	289; 3558
BmrFI	CC!NGG	24	90; 283; 657; 658; 859; 907; 1003; 1256; 1344; 2280; 2385; 3393; 3448; 3465; 3861; 4021; 4244; 4634; 4823; 4926; 5398; 5616; 5629; 5750
BmsI	GCATCNNNNN!	8	920; 1553; 2673; 3436; 3508; 4156; 4220; 4495
BmsI	!NNNNNNNNNGATGC	8	357; 1073; 1112; 1241; 3815; 4070; 4286; 5678
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	3	1378; 2479; 3806
BmuI	!NNNNCCAGT	2	289; 3558
BoxI	GACNN!NNGTC	2	1142; 1315
BpiI	GAAGACNN!	1	983
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNNNN!	3	717; 3646; 4545
BpI	!NNNNNNNNGAGNNNNNCTC	3	685; 3614; 4513
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	4697
BpmI	!NNNNNNNNNNNNNNCTCCAG	2	1000; 4640
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 4539
Bpu1102I	GC!TNAGC	1	1380
BpuAI	GAAGACNN!	1	983
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	2512; 5151; 5690
BpuEI	!NNNNNNNNNNNNNNCTCAAG	5	604; 1192; 1231; 4233; 5392
BpuMI	CC!SGG	7	657; 658; 1256; 3861; 4021; 4634; 5398
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1303; 4846
Bsa29I	AT!CGAT	1	3697
BsaAI	YAC!GTR	4	340; 1405; 2973; 4161
BsaBI	GATNN!NNATC	2	2519; 3716
BsaHI	GR!CGYC	7	122; 175; 258; 444; 3857; 4559; 4638
BsaJI	C!CNNGG	24	360; 649; 656; 677; 770; 905; 906; 1001; 2279; 2383; 3391; 3463; 3586; 3621; 3630; 3679; 4020; 4289; 4694; 4821; 4822; 4924; 4925; 5615

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsaMI	GAATGCN!	1	2608
BsaMI	G!CATTC	1	2701
BsaWI	W!CCGGW	6	600; 666; 3888; 4732; 5422; 5569
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2937
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNACNNNNNCTCC	1	2907
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN	1	1139
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTTG	2	2858; 4765
Bsc4I	CCNNNNN!NNGG	21	49; 793; 906; 1072; 1281; 1904; 2869; 3195; 3587; 3838; 4382; 4663; 4695; 4827; 4862; 4912; 4944; 5297; 5576; 5742; 5760
BscAI	GCATCNNNN!	8	919; 1552; 2672; 3435; 3507; 4155; 4219; 4494
BscAI	!NNNNNNGATGC	8	360; 1076; 1115; 1244; 3818; 4073; 4289; 5681
BseI	ACTGGN!	6	1286; 1373; 2474; 3801; 4002; 5248
BseI	C!CAGT	6	295; 2337; 2886; 3564; 5360; 5373
Bse8I	GATNN!NNATC	2	2519; 3716
Bse21I	CC!TNAGG	3	941; 3337; 4969
Bse118I	R!CCGGY	5	666; 3074; 4176; 4357; 4640
BseAI	T!CCGGA	0	
BseBI	CC!WGG	17	90; 283; 859; 907; 1003; 1344; 2280; 2385; 3393; 3448; 3465; 4244; 4823; 4926; 5616; 5629; 5750
BseCI	AT!CGAT	1	3697
BseDI	C!CNNGG	24	360; 649; 656; 677; 770; 905; 906; 1001; 2279; 2383; 3391; 3463; 3586; 3621; 3630; 3679; 4020; 4289; 4694; 4821; 4822; 4924; 4925; 5615
Bse3DI	GCAATGNN!	1	4090
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	3717; 4174; 4199; 4653
BseGI	!CATCC	5	766; 854; 911; 1066; 3543
BseJI	GATNN!NNATC	2	2519; 3716
BseLI	CCNNNNN!NNGG	21	49; 793; 906; 1072; 1281; 1904; 2869; 3195; 3587; 3838; 4382; 4663; 4695; 4827; 4862; 4912; 4944; 5297; 5576; 5742; 5760
BseMI	GCAATGNN!	1	4090
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	3	620; 1574; 4983
BseMII	!NNNNNNNNCTGAG	11	932; 1138; 1371; 1404; 1696; 2208; 3328; 3630; 4511; 5083; 5492
BseNI	ACTGGN!	6	1286; 1373; 2474; 3801; 4002; 5248
BseNI	C!CAGT	6	295; 2337; 2886; 3564; 5360; 5373
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	3675
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!	8	657; 739; 766; 799; 1376; 3803; 3896; 5465
BseXI	GCAGCNNNNNNNN!	9	893; 1335; 2168; 2645; 3930; 3972; 4493; 4946; 5446
BseXI	!NNNNNNNNNNNGCTGC	9	1012; 1386; 2333; 3139; 3804; 3988; 4081; 5147; 5353
BseX3I	C!GGCCG	2	1385; 3763
BseYI	C!CCAGC	3	3400; 3472; 5471
BseYI	G!CTGGG	2	1103; 4361
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	2361
BsgI	!NNNNNNNNNNNNNNCTGCAC	2	1180; 1385
Bsh1236I	CG!CG	16	60; 651; 1390; 2781; 3157; 3177; 3201; 3232; 3923; 4224; 4662; 4746; 4809; 4878; 5151; 5732
Bsh1285I	CGRY!CG	4	671; 1388; 3766; 5441
BshFI	GG!CC	33	84; 277; 655; 749; 833; 1076; 1111; 1154; 1168; 1300; 1342; 1387; 2232; 2307; 2388; 2489; 2823; 2965; 3620; 3626; 3635; 3678; 3765; 3939; 4330; 4357; 4866; 4923; 4956; 5301; 5735; 5753; 5764
BshNI	G!GYRCC	7	465; 645; 736; 796; 3010; 3856; 3891
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	3697
BsiEI	CGRY!CG	4	671; 1388; 3766; 5441
BsiHKAI	GWGCW!C	5	620; 766; 3970; 4160; 5465
BsiHKCI	C!YCGRG	2	613; 656

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsiSI	C!CGG	20	601; 657; 667; 1256; 3075; 3762; 3839; 3861; 3889; 4020; 4110; 4177; 4358; 4633; 4641; 4733; 5207; 5397; 5423; 5570
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	21	49; 793; 906; 1072; 1281; 1904; 2869; 3195; 3587; 3838; 4382; 4663; 4695; 4827; 4862; 4912; 4944; 5297; 5576; 5742; 5760
BsIFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1451; 4008; 4540; 4649
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3373; 3445; 3509; 4804
BsmI	GAATGCN!	1	2608
BsmI	G!CATTC	1	2701
BsmAI	GTCTCN!	2	434; 1563
BsmAI	!NNNNNGAGAC	5	1303; 3281; 3699; 4718; 4846
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1451; 4008; 4540; 4649
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3373; 3445; 3509; 4804
BsnI	GG!CC	33	84; 277; 655; 749; 833; 1076; 1111; 1154; 1168; 1300; 1342; 1387; 2232; 2307; 2388; 2489; 2823; 2965; 3620; 3626; 3635; 3678; 3765; 3939; 4330; 4357; 4866; 4923; 4956; 5301; 5735; 5753; 5764
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	1303; 4846
BsoBI	C!YCGRG	2	613; 656
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 677; 3586; 4289
Bsp24I	GACNNNNNTGGNNNNNNNNNNNN!	2	289; 4660
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	5081; 5259
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	5113; 5291
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 4628
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 4539
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	27	585; 609; 660; 698; 812; 962; 1046; 1222; 1408; 1564; 2514; 3694; 3698; 3717; 4028; 4106; 4187; 4196; 4274; 4650; 4666; 5025; 5037; 5115; 5123; 5134; 5209
Bsp1286I	GDGCH!C	14	620; 657; 739; 766; 799; 1376; 3048; 3803; 3896; 3970; 4160; 4222; 4932; 5465
Bsp1407I	T!GTACA	2	725; 1884
Bsp1720I	GC!TNAGC	1	1380
BspACI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 649; 995; 1133; 1235; 1388; 1645; 3172; 3175; 3189; 3279; 3527; 3539; 3548; 3560; 3570; 3581; 3627; 3766; 3829; 4331; 4376; 4442; 4468; 4593; 4596; 4744; 4876; 5183; 5327; 5823
BspACI	G!CGG	28	370; 403; 528; 651; 830; 1142; 1184; 1384; 3117; 3144; 3232; 3342; 3923; 3987; 4088; 4091; 4371; 4426; 4524; 4662; 4809; 4949; 5192; 5437; 5558; 5577; 5704; 5732
BspCNI	CTCAGNNNNNNNNNN!	3	619; 1573; 4982
BspCNI	!NNNNNNNCTGAG	11	933; 1139; 1372; 1405; 1697; 2209; 3329; 3631; 4512; 5084; 5493
BspDI	AT!CGAT	1	3697
BspD6I	GACTCNNNN!	5	418; 612; 2930; 4536; 5413
BspD6I	!NNNNNGAGTC	4	1422; 2212; 2893; 3325
BspEI	T!CCGGA	0	
BspFNI	CG!CG	16	60; 651; 1390; 2781; 3157; 3177; 3201; 3232; 3923; 4224; 4662; 4746; 4809; 4878; 5151; 5732
BspHI	T!CATGA	2	3283; 5055
BspLI	GGN!NCC	22	467; 647; 655; 662; 738; 798; 1410; 1439; 2440; 3012; 3033; 3045; 3236; 3397; 3469; 3858; 3893; 4741; 4820; 4865; 5708; 5747
BspMI	ACCTGCNNNN!	4	1202; 1364; 4125; 4575
BspMI	!NNNNNNNNGCAGGT	1	3744
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	11	668; 970; 1416; 1572; 3725; 4036; 4282; 4674; 5033; 5131; 5217
BspPI	!NNNNNGATCC	8	580; 655; 1217; 1403; 4101; 4645; 5032; 5129

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	2	4201; 4411
BspTI	C!TTAAG	1	2739
BspT104I	TT!CGAA	2	627; 4539
BspT107I	G!GYRCC	7	465; 645; 736; 796; 3010; 3856; 3891
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1303; 4846
BsrI	ACTGGN!	6	1286; 1373; 2474; 3801; 4002; 5248
BsrI	C!CAGT	6	295; 2337; 2886; 3564; 5360; 5373
BsrBI	CCG!CTC	2	3281; 4470
BsrBI	GAG!CGG	3	1384; 3117; 4524
BsrDI	GCAATGNN!	1	4090
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	5	666; 3074; 4176; 4357; 4640
BsrGI	T!GTACA	2	725; 1884
BsrSI	ACTGGN!	6	1286; 1373; 2474; 3801; 4002; 5248
BsrSI	C!CAGT	6	295; 2337; 2886; 3564; 5360; 5373
BssAI	R!CCGGY	5	666; 3074; 4176; 4357; 4640
BssECI	C!CNNGG	24	360; 649; 656; 677; 770; 905; 906; 1001; 2279; 2383; 3391; 3463; 3586; 3621; 3630; 3679; 4020; 4289; 4694; 4821; 4822; 4924; 4925; 5615
BssHII	G!CGCGC	0	
BssKI	!CCNGG	24	88; 281; 655; 656; 857; 905; 1001; 1254; 1342; 2278; 2383; 3391; 3446; 3463; 3859; 4019; 4242; 4632; 4821; 4924; 5396; 5614; 5627; 5748
BssMI	!GATC	27	585; 609; 660; 698; 812; 962; 1046; 1222; 1408; 1564; 2514; 3694; 3698; 3717; 4028; 4106; 4187; 4196; 4274; 4650; 4666; 5025; 5037; 5115; 5123; 5134; 5209
BssNI	GR!CGYC	7	122; 175; 258; 444; 3857; 4559; 4638
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1327; 4575; 5602
BssSI	C!TCGTG	2	1177; 4449
BssTII	C!CWWGG	6	360; 677; 3586; 3679; 4289; 4694
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	3324; 4201; 4411
Bst98I	C!TTAAG	1	2739
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	7	122; 175; 258; 444; 3857; 4559; 4638
BstAFI	C!TTAAG	1	2739
BstAPI	GCANNNN!NTGC	3	3424; 3496; 4958
BstAUI	T!GTACA	2	725; 1884
BstBI	TT!CGAA	2	627; 4539
Bst2BI	C!ACGAG	3	1327; 4575; 5602
Bst2BI	C!TCGTG	2	1177; 4449
BstBAI	YAC!GTR	4	340; 1405; 2973; 4161
Bst4CI	ACN!GT	20	76; 198; 269; 543; 581; 645; 725; 741; 1276; 1515; 1743; 2058; 2948; 4237; 4353; 4461; 4784; 5275; 5745; 5816
BstC8I	GCN!NGC	35	86; 279; 593; 653; 694; 784; 988; 2305; 2344; 2408; 3076; 3119; 3133; 3406; 3425; 3478; 3497; 3751; 3937; 4156; 4222; 4228; 4256; 4260; 4301; 4305; 4359; 4642; 4829; 4876; 4932; 4954; 5165; 5725; 5762
BstDEI	C!TNAG	17	606; 941; 1147; 1238; 1380; 1413; 1560; 1705; 2217; 2402; 2452; 3337; 3639; 4520; 4969; 5092; 5501
BstDSI	C!CRYGG	5	360; 649; 677; 3586; 4289
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	3717; 4174; 4199; 4653
BstF5I	!CATCC	5	766; 854; 911; 1066; 3543
BstFNI	CG!CG	16	60; 651; 1390; 2781; 3157; 3177; 3201; 3232; 3923; 4224; 4662; 4746; 4809; 4878; 5151; 5732
BstH2I	RGCGC!Y	5	598; 3124; 3132; 3860; 5535
BstHHI	GCG!C	21	597; 3123; 3131; 3157; 3179; 3188; 3201; 3232; 3851; 3859; 3923; 3960; 4226; 4486; 4662; 4748; 5151; 5260; 5434; 5534; 5601

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstKTI	GAT C	27	588; 612; 663; 701; 815; 965; 1049; 1225; 1411; 1567; 2517; 3697; 3701; 3720; 4031; 4109; 4190; 4199; 4277; 4653; 4669; 5028; 5040; 5118; 5126; 5137; 5212
BstMAI	GTCTC N!	2	434; 1563
BstMAI	!NNNNNGAGAC	5	1303; 3281; 3699; 4718; 4846
BstMBI	!GATC	27	585; 609; 660; 698; 812; 962; 1046; 1222; 1408; 1564; 2514; 3694; 3698; 3717; 4028; 4106; 4187; 4196; 4274; 4650; 4666; 5025; 5037; 5115; 5123; 5134; 5209
BstMCI	CGRY CG	4	671; 1388; 3766; 5441
BstMWI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 1396; 2373; 3084; 3114; 3141; 3183; 3424; 3496; 3547; 3626; 3848; 3932; 3955; 4094; 4217; 4300; 4567; 4754; 4958; 5157; 5729
BstNI	CC!WGG	17	90; 283; 859; 907; 1003; 1344; 2280; 2385; 3393; 3448; 3465; 4244; 4823; 4926; 5616; 5629; 5750
BstNSI	RCATG Y	5	714; 3427; 3499; 4262; 5779
BstOI	CC!WGG	17	90; 283; 859; 907; 1003; 1344; 2280; 2385; 3393; 3448; 3465; 4244; 4823; 4926; 5616; 5629; 5750
BstPI	G GTNACC	0	
BstPAI	GACNN!NNGTC	2	1142; 1315
BstSCI	!CCNGG	24	88; 281; 655; 656; 857; 905; 1001; 1254; 1342; 2278; 2383; 3391; 3446; 3463; 3859; 4019; 4242; 4632; 4821; 4924; 5396; 5614; 5627; 5748
BstSFI	C!TRYAG	4	634; 3192; 5319; 5510
BstSLI	GKGCM C	8	657; 739; 766; 799; 1376; 3803; 3896; 5465
BstSNI	TAC GTA	1	340
BstUI	CG CG	16	60; 651; 1390; 2781; 3157; 3177; 3201; 3232; 3923; 4224; 4662; 4746; 4809; 4878; 5151; 5732
Bst2UI	CC!WGG	17	90; 283; 859; 907; 1003; 1344; 2280; 2385; 3393; 3448; 3465; 4244; 4823; 4926; 5616; 5629; 5750
BstV1I	GCAGC NNNNNNN!	9	893; 1335; 2168; 2645; 3930; 3972; 4493; 4946; 5446
BstV1I	!NNNNNNNNNNNGCTGC	9	1012; 1386; 2333; 3139; 3804; 3988; 4081; 5147; 5353
BstV2I	GAAGAC NN!	1	983
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	1	2316
BstX2I	R!GATCY	12	585; 609; 660; 1222; 1408; 4028; 4274; 4666; 5025; 5037; 5123; 5134
BstYI	R!GATCY	12	585; 609; 660; 1222; 1408; 4028; 4274; 4666; 5025; 5037; 5123; 5134
BstZI	C!GGCCG	2	1385; 3763
BstZ17I	GTA TAC	0	
BsuI	GTATCC NNNNNNN!	3	3286; 4076; 5577
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT CGAT	1	3697
Bsu36I	CC!TNAGG	3	941; 3337; 4969
BsuRI	GG CC	33	84; 277; 655; 749; 833; 1076; 1111; 1154; 1168; 1300; 1342; 1387; 2232; 2307; 2388; 2489; 2823; 2965; 3620; 3626; 3635; 3678; 3765; 3939; 4330; 4357; 4866; 4923; 4956; 5301; 5735; 5753; 5764
BsuTUI	AT CGAT	1	3697
BtgI	C CRYGG	5	360; 649; 677; 3586; 4289
BtgZI	GCGATG NNNNNNNNNN!	2	2974; 4309
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 4128; 4472
BthCI	GCNG C	37	833; 884; 1028; 1326; 1387; 1390; 1402; 2159; 2349; 2636; 3155; 3177; 3191; 3629; 3768; 3820; 3831; 3921; 3926; 3963; 4004; 4091; 4094; 4097; 4333; 4429; 4470; 4484; 4598; 4937; 4952; 5163; 5369; 5372; 5437; 5580; 5735
BtrI	CAC GTC	0	
BtrI	GAC GTG	0	
BtsI	GCAGT GNN!	0	
BtsI	!CACTGC	2	1197; 2696
BtsCI	GGATG NN!	4	3717; 4174; 4199; 4653
BtsCI	!CATCC	5	766; 854; 911; 1066; 3543
BtuMI	TCG CGA	0	
BveI	ACCTGC NNNN!	4	1202; 1364; 4125; 4575
BveI	!NNNNNNNNGCAGGT	1	3744

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cac8I	GCN!NGC	35	86; 279; 593; 653; 694; 784; 988; 2305; 2344; 2408; 3076; 3119; 3133; 3406; 3425; 3478; 3497; 3751; 3937; 4156; 4222; 4228; 4256; 4260; 4301; 4305; 4359; 4642; 4829; 4876; 4932; 4954; 5165; 5725; 5762
CaiI	CAGNNN!CTG	4	1349; 2279; 4958; 5366
CciI	T!CATGA	2	3283; 5055
CciNI	GC!GGCCGC	1	1385
CdiI	CATC!G	5	352; 4146; 4151; 4349; 4490
CdiI	C!GATG	2	2960; 4295
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5729
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	4	486; 1624; 3518; 3560
CelII	GC!TNAGC	1	1380
CfoI	GCG!C	21	597; 3123; 3131; 3157; 3179; 3188; 3201; 3232; 3851; 3859; 3923; 3960; 4226; 4486; 4662; 4748; 5151; 5260; 5434; 5534; 5601
CfrI	Y!GGCCR	7	747; 1340; 1385; 3763; 3937; 4328; 4355
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	5	666; 3074; 4176; 4357; 4640
Cfr13I	G!GNCC	18	83; 276; 654; 832; 1075; 1167; 1272; 1438; 2231; 2306; 2387; 2487; 2964; 4373; 4818; 4864; 4922; 4955
Cfr42I	CCGC!GG	1	652
ChaI	GATC!	27	589; 613; 664; 702; 816; 966; 1050; 1226; 1412; 1568; 2518; 3698; 3702; 3721; 4032; 4110; 4191; 4200; 4278; 4654; 4670; 5029; 5041; 5119; 5127; 5138; 5213
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	5	778; 3674; 5114; 5214; 5292
CjeI	!NNNNNNNNNACNNNNNNNTGG	9	64; 257; 713; 2263; 3341; 3436; 4628; 5178; 5733
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	9	98; 291; 747; 2297; 3375; 3470; 4662; 5212; 5767
CjeI	!NNNNNNNNCCANNNNNNGT	5	744; 3640; 5080; 5180; 5258
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	5114; 5292
CjePI	!NNNNNNNNGANNNNNNTGG	4	257; 2052; 4628; 5227
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	4	290; 2085; 4661; 5260
CjePI	!NNNNNNNNCCANNNNNNTC	2	5081; 5259
Clal	AT!CGAT	1	3697
CpoI	CG!GWCCG	1	4373
CseI	GACGCNNNN!	3	526; 4567; 4646
CseI	!NNNNNNNNNGCGTC	3	3190; 5085; 5663
CsiI	A!CCWGGT	1	3446
CspI	CG!GWCCG	1	4373
Csp6I	G!TAC	15	218; 243; 298; 331; 382; 539; 646; 726; 876; 1128; 1347; 1511; 1753; 1885; 4162
Csp45I	TT!CGAA	2	627; 4539
CspAI	A!CCGGT	1	666
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCANNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1319; 3137; 4746
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	23	301; 361; 678; 711; 729; 873; 953; 1482; 2027; 2246; 3284; 3424; 3496; 3587; 3728; 4073; 4259; 4290; 4316; 4672; 5056; 5776; 5827
CviJI	RG!CY	110	42; 84; 93; 277; 566; 618; 624; 655; 696; 749; 786; 833; 862; 869; 947; 1013; 1025; 1076; 1103; 1111; 1154; 1168; 1176; 1190; 1259; 1300; 1336; 1342; 1379; 1387; 1399; 2159; 2170; 2206; 2227; 2232; 2276; 2307; 2346; 2367; 2376; 2388; 2406; 2489; 2526; 2636; 2803; 2823; 2965; 3046; 3060; 3074; 3355; 3396; 3468; 3591; 3620; 3626; 3635; 3643; 3666; 3678; 3684; 3765; 3782; 3790; 3817; 3842; 3926; 3935; 3939; 3963; 4001; 4077; 4094; 4113; 4176; 4220; 4230; 4247; 4330; 4357; 4361; 4398; 4421; 4437; 4617; 4644; 4705; 4827; 4866; 4923; 4930; 4937; 4956; 4967; 5218; 5247; 5290; 5301; 5366; 5445; 5470; 5475; 5521; 5611; 5709; 5735; 5753; 5764

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	110	42; 84; 93; 277; 566; 618; 624; 655; 696; 749; 786; 833; 862; 869; 947; 1013; 1025; 1076; 1103; 1111; 1154; 1168; 1176; 1190; 1259; 1300; 1336; 1342; 1379; 1387; 1399; 2159; 2170; 2206; 2227; 2232; 2276; 2307; 2346; 2367; 2376; 2388; 2406; 2489; 2526; 2636; 2803; 2823; 2965; 3046; 3060; 3074; 3355; 3396; 3468; 3591; 3620; 3626; 3635; 3643; 3666; 3678; 3684; 3765; 3782; 3790; 3817; 3842; 3926; 3935; 3939; 3963; 4001; 4077; 4094; 4113; 4176; 4220; 4230; 4247; 4330; 4357; 4361; 4398; 4421; 4437; 4617; 4644; 4705; 4827; 4866; 4923; 4930; 4937; 4956; 4967; 5218; 5247; 5290; 5301; 5366; 5445; 5470; 5475; 5521; 5611; 5709; 5735; 5753; 5764
CviQI	G!TAC	15	218; 243; 298; 331; 382; 539; 646; 726; 876; 1128; 1347; 1511; 1753; 1885; 4162
DdeI	C!TNAG	17	606; 941; 1147; 1238; 1380; 1413; 1560; 1705; 2217; 2402; 2452; 3337; 3639; 4520; 4969; 5092; 5501
DinI	GGC!GCC	1	3858
DpnI	GA!TC	27	587; 611; 662; 700; 814; 964; 1048; 1224; 1410; 1566; 2516; 3696; 3700; 3719; 4030; 4108; 4189; 4198; 4276; 4652; 4668; 5027; 5039; 5117; 5125; 5136; 5211
DpnII	!GATC	27	585; 609; 660; 698; 812; 962; 1046; 1222; 1408; 1564; 2514; 3694; 3698; 3717; 4028; 4106; 4187; 4196; 4274; 4650; 4666; 5025; 5037; 5115; 5123; 5134; 5209
DraI	TTT!AAA	4	1929; 2559; 5001; 5020
DraII	RG!GNCCY	4	1438; 2231; 2487; 4955
DraIII	CACNNN!GTG	1	2973
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNNNN!	2	266; 5337
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNNN!NNGTC	3	2928; 3884; 5673
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNNN!NNGTC	3	2928; 3884; 5673
EaeI	Y!GGCCR	7	747; 1340; 1385; 3763; 3937; 4328; 4355
EagI	C!GGCCG	2	1385; 3763
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	3	3324; 4201; 4411
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	3	3324; 4201; 4411
EciI	GGCGGANNNNNNNNNNNN!	4	3357; 4386; 5573; 5719
EciI	!NNNNNNNNNTCCGCC	4	496; 3528; 3549; 3570
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	2	1385; 3763
Eco24I	GRGCY!C	5	620; 657; 3048; 4222; 4932
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1303; 4846
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	1272; 1438; 4373; 4818
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1385; 3763
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	1192; 4003; 4435
Eco57I	!NNNNNNNNNNNNNNNNNCTTCAG	2	1405; 5233
Eco72I	CAC!GTG	1	1405
Eco81I	CC!TNAGG	3	941; 3337; 4969
Eco88I	C!YCGRG	2	613; 656
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 677; 3586; 3679; 4289; 4694
Eco147I	AGG!CCT	1	3678
EcoHI	!CCSGG	7	655; 656; 1254; 3859; 4019; 4632; 5396
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	4	1192; 4003; 4435; 4697
Eco57MI	!NNNNNNNNNNNNNNNNNCTYCAG	4	1000; 1405; 4640; 5233
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco0109I	RG!GNCCY	4	1438; 2231; 2487; 4955
EcoRI	G!AATTC	2	629; 2325
EcoRII	!CCWGG	17	88; 281; 857; 905; 1001; 1342; 2278; 2383; 3391; 3446; 3463; 4242; 4821; 4924; 5614; 5627; 5748
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 677; 3586; 3679; 4289; 4694
EcoT22I	ATGCA!T	3	3429; 3501; 5832
EcoT38I	GRGCI!C	5	620; 657; 3048; 4222; 4932
Eco53kI	GAG!CTC	1	618
EgeI	GGC!GCC	1	3858
EheI	GGC!GCC	1	3858
ErhI	C!CWWGG	6	360; 677; 3586; 3679; 4289; 4694
EsaBC3I	TC!GA	17	615; 628; 641; 825; 852; 1320; 3007; 3698; 3971; 4127; 4151; 4187; 4349; 4540; 4585; 4840; 5678
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	23	304; 364; 681; 714; 732; 876; 956; 1485; 2030; 2249; 3287; 3427; 3499; 3590; 3731; 4076; 4262; 4293; 4319; 4675; 5059; 5779; 5830
FaiI	YA!TR	86	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 712; 730; 874; 954; 972; 1157; 1218; 1435; 1471; 1483; 1488; 1595; 1662; 1686; 1774; 1790; 1796; 1837; 1846; 1850; 1856; 1881; 1891; 1953; 2028; 2098; 2100; 2114; 2116; 2144; 2192; 2247; 2253; 2482; 2519; 2529; 2595; 2640; 2845; 3273; 3285; 3416; 3425; 3488; 3497; 3521; 3588; 3612; 3729; 3793; 4074; 4099; 4260; 4291; 4317; 4389; 4605; 4673; 4751; 4803; 4964; 4981; 4983; 4985; 5057; 5335; 5524; 5640; 5713; 5777; 5828
FalI	AAGNNNNNCTNNNNNNNNNNNN!	2	951; 4197
FalI	!NNNNNNNAAGNNNNNCTT	2	919; 4165
FaqI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1451; 4008; 4540; 4649
FaqI	!NNNNNNNNNNNNNGTCCC	4	3373; 3445; 3509; 4804
FatI	!CATG	23	300; 360; 677; 710; 728; 872; 952; 1481; 2026; 2245; 3283; 3423; 3495; 3586; 3727; 4072; 4258; 4289; 4315; 4671; 5055; 5775; 5826
FauI	CCCGCNNNN!	10	93; 119; 286; 1140; 1242; 3179; 3534; 3555; 4751; 4883
FauI	!NNNNNGCGGG	7	644; 1177; 3110; 3980; 4517; 4655; 4802
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	640
FmuI	GGNC!C	18	86; 279; 657; 835; 1078; 1170; 1275; 1441; 2234; 2309; 2390; 2490; 2967; 4376; 4821; 4867; 4925; 4958
Fnu4HI	GC!NGC	37	831; 882; 1026; 1324; 1385; 1388; 1400; 2157; 2347; 2634; 3153; 3175; 3189; 3627; 3766; 3818; 3829; 3919; 3924; 3961; 4002; 4089; 4092; 4095; 4331; 4427; 4468; 4482; 4596; 4935; 4950; 5161; 5367; 5370; 5435; 5578; 5733
FokI	GGATGNNNNNNNN!	4	3724; 4181; 4206; 4660
FokI	!NNNNNNNNNNNNCATCC	5	753; 841; 898; 1053; 3530
FriOI	GRGCI!C	5	620; 657; 3048; 4222; 4932
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3959
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	11	592; 1361; 1750; 2228; 2512; 2706; 3124; 3680; 4695; 5029; 5282

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	180	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 717; 753; 783; 800; 814; 847; 861; 879; 903; 918; 948; 981; 1008; 1023; 1042; 1078; 1125; 1144; 1168; 1182; 1207; 1227; 1247; 1268; 1288; 1314; 1356; 1373; 1401; 1425; 1454; 1471; 1658; 1685; 1762; 1816; 1911; 1999; 2044; 2180; 2236; 2280; 2321; 2345; 2363; 2396; 2436; 2455; 2471; 2503; 2522; 2540; 2579; 2593; 2734; 2829; 2853; 2876; 2899; 2917; 2939; 2960; 2979; 2998; 3027; 3048; 3062; 3088; 3176; 3202; 3251; 3292; 3310; 3349; 3365; 3403; 3460; 3475; 3532; 3552; 3566; 3583; 3597; 3634; 3649; 3692; 3775; 3842; 3873; 3893; 3908; 3953; 3967; 4033; 4047; 4066; 4082; 4123; 4143; 4190; 4240; 4256; 4276; 4301; 4321; 4344; 4371; 4389; 4415; 4455; 4481; 4505; 4561; 4575; 4603; 4646; 4667; 4702; 4746; 4834; 4858; 4880; 4900; 4916; 4937; 4951; 4970; 5054; 5074; 5102; 5117; 5151; 5193; 5220; 5235; 5280; 5304; 5318; 5340; 5366; 5386; 5410; 5436; 5484; 5503; 5522; 5548; 5583; 5628; 5658; 5672; 5723; 5737; 5762; 5778; 5799; 5828
FspEI	!NNNNNNNNNNNNNNGG	151	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 670; 715; 757; 778; 802; 844; 863; 892; 928; 965; 988; 1007; 1037; 1058; 1085; 1127; 1150; 1169; 1241; 1267; 1318; 1354; 1391; 1409; 1456; 1474; 1492; 1537; 1678; 1750; 1841; 1889; 1988; 2054; 2121; 2177; 2214; 2265; 2289; 2328; 2346; 2370; 2421; 2455; 2484; 2528; 2628; 2697; 2727; 2805; 2854; 2876; 2904; 2940; 2985; 3014; 3050; 3069; 3097; 3117; 3180; 3203; 3311; 3343; 3361; 3390; 3433; 3462; 3573; 3602; 3645; 3666; 3694; 3727; 3747; 3772; 3799; 3824; 3846; 3874; 3900; 3921; 3972; 3993; 4011; 4059; 4095; 4151; 4176; 4200; 4229; 4252; 4276; 4302; 4324; 4343; 4368; 4408; 4444; 4509; 4594; 4618; 4647; 4681; 4702; 4722; 4767; 4794; 4813; 4846; 4898; 4929; 4956; 5008; 5106; 5177; 5222; 5283; 5348; 5382; 5408; 5426; 5462; 5532; 5555; 5577; 5601; 5634; 5682; 5717; 5735; 5792
Fsp4HI	GC!NGC	37	831; 882; 1026; 1324; 1385; 1388; 1400; 2157; 2347; 2634; 3153; 3175; 3189; 3627; 3766; 3818; 3829; 3919; 3924; 3961; 4002; 4089; 4092; 4095; 4331; 4427; 4468; 4482; 4596; 4935; 4950; 5161; 5367; 5370; 5435; 5578; 5733
GdiII	C!GGCCR	3	747; 1385; 3763
GdiII	Y!GGCCG	4	1385; 3763; 4328; 4355
GlaI	GC!GC	21	596; 3122; 3130; 3156; 3178; 3187; 3200; 3231; 3850; 3858; 3922; 3959; 4225; 4485; 4661; 4747; 5150; 5259; 5433; 5533; 5600
GluI	GC!NGC	37	831; 882; 1026; 1324; 1385; 1388; 1400; 2157; 2347; 2634; 3153; 3175; 3189; 3627; 3766; 3818; 3829; 3919; 3924; 3961; 4002; 4089; 4092; 4095; 4331; 4427; 4468; 4482; 4596; 4935; 4950; 5161; 5367; 5370; 5435; 5578; 5733
GsaI	CCCAG!C	3	3404; 3476; 5475
GsaI	GCTGG!G	2	1107; 4365
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	4697
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	1000; 4640
HaeI	WGG!CCW	8	1111; 1154; 1342; 3678; 3939; 5301; 5753; 5764
HaeII	RGCGC!Y	5	598; 3124; 3132; 3860; 5535
HaeIII	GG!CC	33	84; 277; 655; 749; 833; 1076; 1111; 1154; 1168; 1300; 1342; 1387; 2232; 2307; 2388; 2489; 2823; 2965; 3620; 3626; 3635; 3678; 3765; 3939; 4330; 4357; 4866; 4923; 4956; 5301; 5735; 5753; 5764
HaeIV	GAYNNNNNNRTCNNNNNNNNNNNNNN!	2	1856; 4053
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1822; 4019
HaeIV	GAYNNNNNNRTCNNNNNNNNNNNNNN!	2	1855; 4052
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1824; 4021
HapII	C!CGG	20	601; 657; 667; 1256; 3075; 3762; 3839; 3861; 3889; 4020; 4110; 4177; 4358; 4633; 4641; 4733; 5207; 5397; 5423; 5570
HgaI	GACGCNNNNN!	3	526; 4567; 4646
HgaI	!NNNNNNNNNNGCGTC	3	3190; 5085; 5663

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HhaI	GCG!C	21	597; 3123; 3131; 3157; 3179; 3188; 3201; 3232; 3851; 3859; 3923; 3960; 4226; 4486; 4662; 4748; 5151; 5260; 5434; 5534; 5601
Hin1I	GR!CGYC	7	122; 175; 258; 444; 3857; 4559; 4638
Hin1II	CATG!	23	304; 364; 681; 714; 732; 876; 956; 1485; 2030; 2249; 3287; 3427; 3499; 3590; 3731; 4076; 4262; 4293; 4319; 4675; 5059; 5779; 5830
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	3	1855; 2525; 4052
Hin4I	!NNNNNNNNGABNNNNNRTC	3	1823; 4020; 4050
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	3	1855; 4052; 4082
Hin4I	!NNNNNNNNGAYNNNNNVTC	3	1823; 2493; 4020
Hin6I	G!CGC	21	595; 3121; 3129; 3155; 3177; 3186; 3199; 3230; 3849; 3857; 3921; 3958; 4224; 4484; 4660; 4746; 5149; 5258; 5432; 5532; 5599
HinP1I	G!CGC	21	595; 3121; 3129; 3155; 3177; 3186; 3199; 3230; 3849; 3857; 3921; 3958; 4224; 4484; 4660; 4746; 5149; 5258; 5432; 5532; 5599
HincII	GTY!RAC	2	641; 2620
HindII	GTY!RAC	2	641; 2620
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	16	410; 604; 1289; 1429; 2219; 2502; 2900; 2922; 3332; 4342; 4476; 4528; 4586; 4623; 5405; 5801
HpaI	GTT!AAC	1	2620
HpaII	C!CGG	20	601; 657; 667; 1256; 3075; 3762; 3839; 3861; 3889; 4020; 4110; 4177; 4358; 4633; 4641; 4733; 5207; 5397; 5423; 5570
HphI	GGTGANNNNNNNN!	5	376; 1068; 1438; 4928; 5044
HphI	!NNNNNNNTCACC	4	957; 2321; 2974; 4035
Hpy8I	GTN!NAC	15	201; 539; 577; 641; 744; 764; 1059; 1272; 1279; 1885; 2620; 2904; 2921; 2976; 5463
Hpy99I	CGWCG!	9	645; 1321; 3947; 3975; 4269; 4284; 4561; 4946; 5679
Hpy166II	GTN!NAC	15	201; 539; 577; 641; 744; 764; 1059; 1272; 1279; 1885; 2620; 2904; 2921; 2976; 5463
Hpy188I	TCN!GA	19	585; 609; 705; 771; 1148; 1163; 1706; 2218; 2356; 3031; 3640; 3824; 4168; 4521; 4622; 5101; 5235; 5588; 5666
Hpy188III	TC!NNGA	27	613; 1017; 1044; 1209; 1248; 1412; 1562; 2512; 3284; 3336; 3649; 3702; 3875; 4191; 4200; 4283; 4339; 4383; 4473; 4506; 4575; 5056; 5130; 5213; 5311; 5409; 5543
HpyAV	CCTTCNNNNNN!	6	852; 945; 1470; 4502; 4609; 5288
HpyAV	!NNNNNGAAGG	10	772; 1486; 2478; 3090; 3985; 4714; 4730; 4913; 5230; 5540
HpyCH4III	ACN!GT	20	76; 198; 269; 543; 581; 645; 725; 741; 1276; 1515; 1743; 2058; 2948; 4237; 4353; 4461; 4784; 5275; 5745; 5816
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 1040; 1316; 1404; 2287; 2917; 2929; 2972; 3082; 3973; 4160; 4941; 5074
HpyCH4V	TG!CA	29	636; 714; 764; 1086; 1197; 1402; 1544; 1788; 1916; 2038; 2096; 2112; 2342; 2606; 2633; 2701; 3418; 3427; 3490; 3499; 3614; 3690; 3749; 3908; 4083; 4097; 5167; 5463; 5830
HpyF3I	C!TNAG	17	606; 941; 1147; 1238; 1380; 1413; 1560; 1705; 2217; 2402; 2452; 3337; 3639; 4520; 4969; 5092; 5501
HpyF10VI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 1396; 2373; 3084; 3114; 3141; 3183; 3424; 3496; 3547; 3626; 3848; 3932; 3955; 4094; 4217; 4300; 4567; 4754; 4958; 5157; 5729
Hsp92I	GR!CGYC	7	122; 175; 258; 444; 3857; 4559; 4638
Hsp92II	CATG!	23	304; 364; 681; 714; 732; 876; 956; 1485; 2030; 2249; 3287; 3427; 3499; 3590; 3731; 4076; 4262; 4293; 4319; 4675; 5059; 5779; 5830
HspAI	G!CGC	21	595; 3121; 3129; 3155; 3177; 3186; 3199; 3230; 3849; 3857; 3921; 3958; 4224; 4484; 4660; 4746; 5149; 5258; 5432; 5532; 5599
KasI	G!GCGCC	1	3856
KflI	GG!GWCCC	1	1438
KpnI	GGTAC!C	1	649
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	652
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	2620

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kzo9I	!GATC	27	585; 609; 660; 698; 812; 962; 1046; 1222; 1408; 1564; 2514; 3694; 3698; 3717; 4028; 4106; 4187; 4196; 4274; 4650; 4666; 5025; 5037; 5115; 5123; 5134; 5209
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	4201; 4411
LpnI	RGC!GCGY	5	596; 3122; 3130; 3858; 5533
LpnPI	CCDGNNNNNNNNN!	64	102; 295; 614; 670; 814; 871; 919; 953; 1015; 1030; 1091; 1183; 1207; 1269; 1356; 1425; 2180; 2292; 2350; 2397; 2594; 2899; 3088; 3311; 3349; 3365; 3405; 3460; 3477; 3577; 3662; 3775; 3852; 3874; 3897; 4033; 4047; 4066; 4123; 4190; 4240; 4256; 4313; 4371; 4580; 4646; 4670; 4746; 4835; 4938; 4971; 5202; 5220; 5366; 5386; 5410; 5436; 5485; 5583; 5628; 5658; 5737; 5762; 5799
LpnPI	!NNNNNNNNNNNNNCHGG	66	75; 268; 552; 586; 642; 844; 892; 988; 1089; 1241; 1267; 1329; 1354; 1408; 1492; 1547; 1889; 1988; 2054; 2192; 2265; 2289; 2328; 2353; 2455; 2940; 3060; 3117; 3180; 3378; 3390; 3450; 3462; 3694; 3739; 3782; 3824; 3846; 3874; 3921; 3983; 4005; 4095; 4162; 4185; 4229; 4324; 4343; 4368; 4517; 4618; 4661; 4718; 4808; 4911; 4938; 4956; 5192; 5229; 5382; 5408; 5548; 5566; 5601; 5682; 5735
Lsp1109I	GCAGCNNNNNNNN!	9	893; 1335; 2168; 2645; 3930; 3972; 4493; 4946; 5446
Lsp1109I	!NNNNNNNNNNNGCTGC	9	1012; 1386; 2333; 3139; 3804; 3988; 4081; 5147; 5353
LweI	GCATCNNNNN!	8	920; 1553; 2673; 3436; 3508; 4156; 4220; 4495
LweI	!NNNNNNNNNGATGC	8	357; 1073; 1112; 1241; 3815; 4070; 4286; 5678
MabI	A!CCWGGT	1	3446
MaeI	C!TAG	11	592; 1361; 1750; 2228; 2512; 2706; 3124; 3680; 4695; 5029; 5282
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 1040; 1316; 1404; 2287; 2917; 2929; 2972; 3082; 3973; 4160; 4941; 5074
MaeIII	!GTNAC	16	61; 148; 497; 1391; 1502; 1718; 2122; 2645; 3146; 3158; 3977; 4283; 4973; 5239; 5355; 5418
MaI	GA!TC	27	587; 611; 662; 700; 814; 964; 1048; 1224; 1410; 1566; 2516; 3696; 3700; 3719; 4030; 4108; 4189; 4198; 4276; 4652; 4668; 5027; 5039; 5117; 5125; 5136; 5211
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3281; 4470
MbiI	GAG!CGG	3	1384; 3117; 4524
MboI	!GATC	27	585; 609; 660; 698; 812; 962; 1046; 1222; 1408; 1564; 2514; 3694; 3698; 3717; 4028; 4106; 4187; 4196; 4274; 4650; 4666; 5025; 5037; 5115; 5123; 5134; 5209
MboII	GAAGANNNNNNNN!	7	988; 1101; 3113; 3341; 4218; 4428; 5047
MboII	!NNNNNNNTCTTC	7	1631; 1933; 2255; 4508; 4675; 4875; 5118
McaTI	GCGC!GC	0	
MfeI	C!AATTG	2	1599; 2607
MflI	R!GATCY	12	585; 609; 660; 1222; 1408; 4028; 4274; 4666; 5025; 5037; 5123; 5134
MhlI	GDGCH!C	14	620; 657; 739; 766; 799; 1376; 3048; 3803; 3896; 3970; 4160; 4222; 4932; 5465
MlsI	TGG!CCA	2	1342; 3939
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	1342; 3939
MlyI	GAGTCNNNNN!	4	1438; 2228; 2909; 3341
MlyI	!NNNNNGACTC	5	404; 598; 2916; 4522; 5399
Mly113I	GG!CGCC	1	3857
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	3	1094; 2482; 2950
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	5382; 5566
MnlI	CCTCNNNNNNN!	15	845; 1024; 1039; 1216; 1255; 2041; 2277; 2519; 2576; 3640; 4458; 4664; 4978; 5348; 5672
MnlI	!NNNNNGAGG	24	541; 678; 726; 765; 786; 819; 936; 953; 1101; 1144; 1290; 2129; 2536; 3001; 3332; 3610; 3653; 3668; 3708; 3772; 3908; 4265; 4695; 5598
Mph1103I	ATGCA!T	3	3429; 3501; 5832
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MroNI	G!CCGGC	3	3074; 4357; 4640
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	2	1342; 3939
MseI	T!TAA	29	7; 926; 1475; 1616; 1666; 1674; 1715; 1724; 1826; 1861; 1876; 1928; 1948; 2074; 2433; 2558; 2619; 2740; 2761; 2772; 2784; 2795; 2812; 2910; 3181; 5000; 5014; 5019; 5071
MslI	CAYNN!NNRTG	5	365; 1120; 1549; 1853; 4294
MspI	C!CGG	20	601; 657; 667; 1256; 3075; 3762; 3839; 3861; 3889; 4020; 4110; 4177; 4358; 4633; 4641; 4733; 5207; 5397; 5423; 5570
Msp20I	TGG!CCA	2	1342; 3939
MspA1I	CMG!CKG	8	651; 1135; 1142; 1379; 3355; 3963; 5192; 5437
MspCI	C!TTAAG	1	2739
MspJI	CNNRRNNNNNNNN!	291	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 613; 627; 640; 662; 679; 690; 705; 723; 741; 771; 789; 804; 818; 837; 870; 885; 913; 928; 952; 965; 981; 999; 1013; 1029; 1042; 1056; 1077; 1090; 1111; 1124; 1144; 1159; 1174; 1189; 1206; 1219; 1233; 1246; 1260; 1281; 1294; 1313; 1332; 1355; 1368; 1381; 1401; 1415; 1435; 1455; 1494; 1519; 1543; 1572; 1606; 1634; 1658; 1677; 1702; 1717; 1735; 1752; 1793; 1807; 1848; 1861; 1900; 1916; 1981; 1999; 2015; 2039; 2058; 2081; 2109; 2125; 2139; 2155; 2179; 2219; 2235; 2253; 2271; 2284; 2300; 2316; 2333; 2349; 2362; 2380; 2396; 2414; 2427; 2463; 2477; 2503; 2524; 2540; 2564; 2581; 2594; 2635; 2649; 2662; 2680; 2718; 2733; 2751; 2792; 2816; 2836; 2854; 2875; 2898; 2930; 2945; 2967; 2985; 2998; 3019; 3036; 3049; 3062; 3078; 3091; 3121; 3136; 3161; 3179; 3192; 3207; 3231; 3245; 3269; 3294; 3310; 3348; 3364; 3403; 3417; 3431; 3459; 3475; 3489; 3503; 3532; 3545; 3566; 3575; 3597; 3627; 3643; 3661; 3691; 3714; 3738; 3762; 3781; 3809; 3835; 3851; 3864; 3887; 3901; 3921; 3934; 3948; 3967; 3981; 3994; 4010; 4025; 4038; 4054; 4069; 4085; 4110; 4129; 4145; 4158; 4171; 4189; 4203; 4217; 4233; 4255; 4271; 4290; 4312; 4328; 4351; 4370; 4384; 4400; 4414; 4434; 4450; 4463; 4485; 4518; 4532; 4552; 4565; 4579; 4633; 4646; 4669; 4682; 4701; 4718; 4745; 4781; 4814; 4833; 4858; 4879; 4906; 4919; 4936; 4950; 4965; 4981; 5041; 5066; 5082; 5104; 5117; 5131; 5162; 5176; 5201; 5219; 5234; 5247; 5266; 5279; 5294; 5323; 5342; 5360; 5385; 5400; 5419; 5435; 5454; 5472; 5488; 5502; 5521; 5548; 5571; 5593; 5612; 5627; 5640; 5657; 5677; 5704; 5717; 5736; 5761; 5784; 5798; 5811; 5828

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	237	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 593; 612; 636; 653; 679; 697; 715; 745; 769; 787; 811; 830; 852; 892; 913; 939; 959; 988; 1030; 1064; 1085; 1105; 1132; 1156; 1180; 1213; 1234; 1253; 1279; 1301; 1324; 1342; 1367; 1389; 1408; 1429; 1456; 1475; 1493; 1510; 1533; 1558; 1597; 1630; 1667; 1690; 1731; 1750; 1771; 1841; 1866; 1889; 1946; 1988; 2013; 2054; 2079; 2119; 2153; 2177; 2202; 2223; 2265; 2282; 2302; 2323; 2340; 2358; 2379; 2401; 2430; 2456; 2477; 2498; 2523; 2567; 2609; 2692; 2727; 2754; 2777; 2806; 2850; 2872; 2904; 2940; 2957; 2978; 3015; 3035; 3052; 3069; 3104; 3122; 3140; 3157; 3181; 3203; 3230; 3258; 3284; 3322; 3343; 3360; 3378; 3401; 3422; 3450; 3473; 3494; 3512; 3533; 3550; 3573; 3597; 3617; 3635; 3657; 3688; 3710; 3736; 3755; 3772; 3800; 3819; 3838; 3856; 3874; 3895; 3917; 3941; 3974; 3994; 4012; 4033; 4059; 4086; 4103; 4120; 4137; 4163; 4185; 4207; 4225; 4245; 4264; 4286; 4324; 4344; 4368; 4388; 4408; 4435; 4459; 4492; 4511; 4539; 4561; 4590; 4618; 4643; 4662; 4681; 4702; 4719; 4736; 4767; 4794; 4814; 4837; 4857; 4894; 4911; 4930; 4956; 4976; 5015; 5042; 5061; 5079; 5116; 5134; 5175; 5193; 5219; 5236; 5268; 5297; 5325; 5346; 5369; 5388; 5409; 5427; 5444; 5462; 5488; 5509; 5529; 5549; 5567; 5588; 5614; 5631; 5650; 5669; 5698; 5717; 5735; 5754; 5772; 5790; 5813
MspR9I	CC!NGG	24	90; 283; 657; 658; 859; 907; 1003; 1256; 1344; 2280; 2385; 3393; 3448; 3465; 3861; 4021; 4244; 4634; 4823; 4926; 5398; 5616; 5629; 5750
MssI	GTTT!AAAC	0	
MunI	C!AATTG	2	1599; 2607
MvaI	CC!WGG	17	90; 283; 859; 907; 1003; 1344; 2280; 2385; 3393; 3448; 3465; 4244; 4823; 4926; 5616; 5629; 5750
MvaI269I	GAATGCN!	1	2608
MvaI269I	G!CATTC	1	2701
MvnI	CG!CG	16	60; 651; 1390; 2781; 3157; 3177; 3201; 3232; 3923; 4224; 4662; 4746; 4809; 4878; 5151; 5732
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 1396; 2373; 3084; 3114; 3141; 3183; 3424; 3496; 3547; 3626; 3848; 3932; 3955; 4094; 4217; 4300; 4567; 4754; 4958; 5157; 5729
NaeI	GCC!GGC	3	3076; 4359; 4642
NarI	GG!CGCC	1	3857
NciI	CC!SGG	7	657; 658; 1256; 3861; 4021; 4634; 5398
NcoI	C!CATGG	4	360; 677; 3586; 4289
NdeI	CA!TATG	1	234
NdeII	!GATC	27	585; 609; 660; 698; 812; 962; 1046; 1222; 1408; 1564; 2514; 3694; 3698; 3717; 4028; 4106; 4187; 4196; 4274; 4650; 4666; 5025; 5037; 5115; 5123; 5134; 5209
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	803
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	839
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	3074; 4357; 4640
NheI	G!CTAGC	1	591
NlaIII	CATG!	23	304; 364; 681; 714; 732; 876; 956; 1485; 2030; 2249; 3287; 3427; 3499; 3590; 3731; 4076; 4262; 4293; 4319; 4675; 5059; 5779; 5830
NlaIV	GGN!NCC	22	467; 647; 655; 662; 738; 798; 1410; 1439; 2440; 3012; 3033; 3045; 3236; 3397; 3469; 3858; 3893; 4741; 4820; 4865; 5708; 5747
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	2334; 2689; 3004; 4596
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 1063; 5668
Nli3877I	CYCGR!G	2	617; 660
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3646; 4082
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1079; 3611
NmeDI	RCCGGYNNNNNNN!	5	678; 3086; 4188; 4369; 4652
NmeDI	!NNNNNNNNNNNNRCCGGY	5	653; 3061; 4163; 4344; 4627

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmuCI	!GTSAC	4	1391; 3146; 3977; 4283
NotI	GC!GGCCGC	1	1385
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3959
NsiI	ATGCA!T	3	3429; 3501; 5832
NspI	RCATG!Y	5	714; 3427; 3499; 4262; 5779
NspV	TT!CGAA	2	627; 4539
OliI	CACNN!NNGTG	0	
PabI	GTA!C	15	220; 245; 300; 333; 384; 541; 648; 728; 878; 1130; 1349; 1513; 1755; 1887; 4164
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3427; 3499; 4262
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	3283; 5055
PaIAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	906; 4822; 4925
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	3678
PciI	A!CATGT	1	5775
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	4201; 4411
PcsI	WCGNNNN!N NNCGW	7	1325; 4151; 4228; 4471; 4545; 4938; 5456
PctI	GAATGCN!	1	2608
PctI	G!CATTC	1	2701
PdiI	GCC!GGC	3	3076; 4359; 4642
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	1289; 2502; 4342; 4476; 4586; 4623; 5801
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3975
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	1	4632
PhoI	GG!CC	33	84; 277; 655; 749; 833; 1076; 1111; 1154; 1168; 1300; 1342; 1387; 2232; 2307; 2388; 2489; 2823; 2965; 3620; 3626; 3635; 3678; 3765; 3939; 4330; 4357; 4866; 4923; 4956; 5301; 5735; 5753; 5764
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	2	1571; 4238
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	2107; 3803; 4058
PleI	GAGTCNNNN!	4	1437; 2227; 2908; 3340
PleI	!NNNNNGACTC	5	404; 598; 2916; 4522; 5399
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	1405
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	1	1405
PpiI	GAACNNNNNCTC NNNNNNNNNNNNN!	1	2939
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	5069
PpiI	GAGNNNNNGTTC NNNNNNNNNNNNN!	1	5101
PpiI	!NNNNNNNGAACNNNNNCTC	1	2907
PpsI	GAGTCNNNN!	4	1437; 2227; 2908; 3340
PpsI	!NNNNNGACTC	5	404; 598; 2916; 4522; 5399
Ppu10I	A!TGCAT	3	3425; 3497; 5828
Ppu21I	YAC!GTR	4	340; 1405; 2973; 4161
PpuMI	RG!GWCCY	1	1438
PscI	A!CATGT	1	5775
PshAI	GACNN!NNGTC	2	1142; 1315
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2640; 2845
Psp03I	GGWC!C	4	1275; 1441; 4376; 4821
Psp5II	RG!GWCCY	1	1438
Psp6I	!CCWGG	17	88; 281; 857; 905; 1001; 1342; 2278; 2383; 3391; 3446; 3463; 4242; 4821; 4924; 5614; 5627; 5748
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	1	1405

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspEI	G!GTNACC	0	
PspGI	!CCWGG	17	88; 281; 857; 905; 1001; 1342; 2278; 2383; 3391; 3446; 3463; 4242; 4821; 4924; 5614; 5627; 5748
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 647; 655; 662; 738; 798; 1410; 1439; 2440; 3012; 3033; 3045; 3236; 3397; 3469; 3858; 3893; 4741; 4820; 4865; 5708; 5747
PspOMI	G!GGCCC	1	653
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNNNN!	3	125; 3587; 4586
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3989
PspPI	G!GNCC	18	83; 276; 654; 832; 1075; 1167; 1272; 1438; 2231; 2306; 2387; 2487; 2964; 4373; 4818; 4864; 4922; 4955
PspPPI	RG!GWCCY	1	1438
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	3410; 3482; 4988
PspPRI	!NNNNNNNNNNNNNNCTGRGG	5	927; 1355; 2456; 3323; 4518
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	4	1441; 2234; 2490; 4958
PstI	CTGCA!G	1	638
PstNI	CAGNNN!CTG	4	1349; 2279; 4958; 5366
PsuI	R!GATCY	12	585; 609; 660; 1222; 1408; 4028; 4274; 4666; 5025; 5037; 5123; 5134
PsyI	GACN!NNGTC	1	3975
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1379; 3355; 3963
RcaI	T!CATGA	2	3283; 5055
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	4372
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNN!	3	2287; 2406; 2586
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCAGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	15	219; 244; 299; 332; 383; 540; 647; 727; 877; 1129; 1348; 1512; 1754; 1886; 4163
RsaNI	G!TAC	15	218; 243; 298; 331; 382; 539; 646; 726; 876; 1128; 1347; 1511; 1753; 1885; 4162
RseI	CAYNN!NNRTG	5	365; 1120; 1549; 1853; 4294
RsrII	CG!GWCCG	1	4373
Rsr2I	CG!GWCCG	1	4373
SacI	GAGCT!C	1	620
SacII	CCGC!GG	1	652
SalI	G!TCGAC	1	639
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	4201; 4411
SaqAI	T!TAA	29	7; 926; 1475; 1616; 1666; 1674; 1715; 1724; 1826; 1861; 1876; 1928; 1948; 2074; 2433; 2558; 2619; 2740; 2761; 2772; 2784; 2795; 2812; 2910; 3181; 5000; 5014; 5019; 5071
SatI	GC!NGC	37	831; 882; 1026; 1324; 1385; 1388; 1400; 2157; 2347; 2634; 3153; 3175; 3189; 3627; 3766; 3818; 3829; 3919; 3924; 3961; 4002; 4089; 4092; 4095; 4331; 4427; 4468; 4482; 4596; 4935; 4950; 5161; 5367; 5370; 5435; 5578; 5733
Sau96I	G!GNCC	18	83; 276; 654; 832; 1075; 1167; 1272; 1438; 2231; 2306; 2387; 2487; 2964; 4373; 4818; 4864; 4922; 4955
Sau3AI	!GATC	27	585; 609; 660; 698; 812; 962; 1046; 1222; 1408; 1564; 2514; 3694; 3698; 3717; 4028; 4106; 4187; 4196; 4274; 4650; 4666; 5025; 5037; 5115; 5123; 5134; 5209

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	1438; 2228; 2909; 3341
SchI	!NNNNNGACTC	5	404; 598; 2916; 4522; 5399
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	24	90; 283; 657; 658; 859; 907; 1003; 1256; 1344; 2280; 2385; 3393; 3448; 3465; 3861; 4021; 4244; 4634; 4823; 4926; 5398; 5616; 5629; 5750
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNN!	5	1113; 3435; 3507; 3676; 5618
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	2257; 4012; 4497
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	14	620; 657; 739; 766; 799; 1376; 3048; 3803; 3896; 3970; 4160; 4222; 4932; 5465
SelI	!CGCG	16	58; 649; 1388; 2779; 3155; 3175; 3199; 3230; 3921; 4222; 4660; 4744; 4807; 4876; 5149; 5730
SetI	ASST!	75	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 698; 808; 821; 871; 892; 1043; 1178; 1196; 1247; 1315; 1319; 1348; 1358; 1381; 1401; 1407; 2140; 2161; 2172; 2229; 2278; 2290; 2408; 2440; 2547; 2568; 2577; 2589; 2638; 2805; 2920; 2932; 2975; 3012; 3062; 3085; 3209; 3357; 3452; 3645; 3758; 3886; 3965; 3976; 4048; 4119; 4163; 4423; 4569; 4613; 4944; 4975; 5034; 5077; 5220; 5241; 5340; 5477; 5492; 5511; 5523; 5567; 5613; 5664
SexAI	A!CCWGGT	1	3446
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	920; 1553; 2673; 3436; 3508; 4156; 4220; 4495
SfaNI	!NNNNNNNNNGATGC	8	357; 1073; 1112; 1241; 3815; 4070; 4286; 5678
SfcI	C!TRYAG	4	634; 3192; 5319; 5510
SfiI	GGCCNNNN!NGGCC	1	3632
SfoI	GGC!GCC	1	3858
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	1	652
SfuI	TT!CGAA	2	627; 4539
SgeI	CNNGNNNNNNNNNN!	212	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 690; 705; 723; 741; 771; 795; 813; 828; 870; 885; 918; 952; 965; 993; 1014; 1029; 1056; 1090; 1111; 1131; 1144; 1182; 1197; 1221; 1239; 1260; 1281; 1294; 1332; 1355; 1368; 1381; 1401; 1415; 1435; 1455; 1494; 1519; 1574; 1634; 1762; 1916; 2015; 2039; 2081; 2179; 2219; 2236; 2258; 2291; 2304; 2349; 2380; 2396; 2419; 2482; 2503; 2524; 2564; 2593; 2635; 2718; 2792; 2876; 2898; 2930; 2967; 2985; 3004; 3019; 3061; 3078; 3095; 3130; 3144; 3161; 3183; 3207; 3231; 3296; 3310; 3348; 3364; 3404; 3417; 3436; 3459; 3476; 3489; 3508; 3538; 3559; 3576; 3599; 3634; 3661; 3692; 3714; 3740; 3762; 3781; 3809; 3845; 3864; 3887; 3901; 3921; 3934; 3948; 3967; 3981; 4000; 4032; 4046; 4059; 4085; 4116; 4129; 4146; 4163; 4177; 4194; 4212; 4227; 4255; 4271; 4290; 4312; 4328; 4351; 4370; 4395; 4414; 4434; 4461; 4485; 4518; 4537; 4565; 4579; 4645; 4669; 4684; 4707; 4728; 4745; 4793; 4820; 4834; 4863; 4887; 4920; 4937; 4957; 4970; 4983; 5041; 5068; 5087; 5117; 5142; 5162; 5176; 5201; 5219; 5256; 5294; 5323; 5351; 5365; 5385; 5400; 5421; 5435; 5454; 5472; 5488; 5528; 5548; 5575; 5593; 5614; 5627; 5640; 5657; 5681; 5704; 5736; 5761; 5788; 5810

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sth302II	CC!GG	20	602; 658; 668; 1257; 3076; 3763; 3840; 3862; 3890; 4021; 4111; 4178; 4359; 4634; 4642; 4734; 5208; 5398; 5424; 5571
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	4	3725; 4182; 4207; 4661
StsI	!NNNNNNNNNNNNNNCATCC	5	752; 840; 897; 1052; 3529
StuI	AGG!CCT	1	3678
StyI	C!CWWGG	6	360; 677; 3586; 3679; 4289; 4694
StyD4I	!CCNGG	24	88; 281; 655; 656; 857; 905; 1001; 1254; 1342; 2278; 2383; 3391; 3446; 3463; 3859; 4019; 4242; 4632; 4821; 4924; 5396; 5614; 5627; 5748
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	20	76; 198; 269; 543; 581; 645; 725; 741; 1276; 1515; 1743; 2058; 2948; 4237; 4353; 4461; 4784; 5275; 5745; 5816
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 1043; 1319; 1407; 2290; 2920; 2932; 2975; 3085; 3976; 4163; 4944; 5077
TaqI	T!CGA	17	614; 627; 640; 824; 851; 1319; 3006; 3697; 3970; 4126; 4150; 4186; 4348; 4539; 4584; 4839; 5677
TaqII	GACCGANNNNNNNNNNN!	3	2877; 3894; 4562
TaqII	!NNNNNNNNNTCGGTC	1	4806
TaqII	CACCCANNNNNNNNNNN!	2	814; 919
TaqII	!NNNNNNNNNTGGGTG	3	172; 3761; 4353
TasI	!AATT	21	18; 629; 1599; 1617; 1648; 1827; 1909; 1923; 2063; 2118; 2325; 2424; 2607; 2671; 2749; 2775; 2786; 3433; 3505; 3597; 5015
TatI	W!GTACW	7	217; 297; 330; 381; 725; 1752; 1884
TauI	GCSG!C	18	833; 1387; 1390; 3177; 3191; 3629; 3768; 3831; 3926; 4091; 4094; 4333; 4429; 4470; 4598; 4952; 5580; 5735
TfiI	G!AWTC	7	1289; 2502; 4342; 4476; 4586; 4623; 5801
TliI	C!TCGAG	1	613
TruII	T!TAA	29	7; 926; 1475; 1616; 1666; 1674; 1715; 1724; 1826; 1861; 1876; 1928; 1948; 2074; 2433; 2558; 2619; 2740; 2761; 2772; 2784; 2795; 2812; 2910; 3181; 5000; 5014; 5019; 5071
Tru9I	T!TAA	29	7; 926; 1475; 1616; 1666; 1674; 1715; 1724; 1826; 1861; 1876; 1928; 1948; 2074; 2433; 2558; 2619; 2740; 2761; 2772; 2784; 2795; 2812; 2910; 3181; 5000; 5014; 5019; 5071
TscAI	CASTGNN!	9	1204; 1554; 2063; 2344; 2703; 3986; 5096; 5367; 5380
TseI	G!CWGC	19	881; 1025; 1323; 1399; 2156; 2346; 2633; 3152; 3817; 3918; 3960; 4001; 4094; 4481; 4934; 5160; 5366; 5369; 5434
TsoI	TARCCANNNNNNNNNNN!	2	2829; 3176
TsoI	!NNNNNNNNNTGGYTA	5	850; 1462; 2364; 2634; 4386
Tsp45I	!GTSAC	4	1391; 3146; 3977; 4283
Tsp509I	!AATT	21	18; 629; 1599; 1617; 1648; 1827; 1909; 1923; 2063; 2118; 2325; 2424; 2607; 2671; 2749; 2775; 2786; 3433; 3505; 3597; 5015
TspDTI	ATGAANNNNNNNNNNN!	4	2497; 2615; 3916; 4620
TspDTI	!NNNNNNNNNTTCAT	10	26; 861; 1470; 1582; 1783; 2131; 2240; 4334; 4790; 4997
TspEI	!AATT	21	18; 629; 1599; 1617; 1648; 1827; 1909; 1923; 2063; 2118; 2325; 2424; 2607; 2671; 2749; 2775; 2786; 3433; 3505; 3597; 5015
TspGWI	ACGGANNNNNNNNNNN!	1	4732
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	9	1204; 1554; 2063; 2344; 2703; 3986; 5096; 5367; 5380
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	1	1759
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	1	1791
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3975
Tth111II	CAARCANNNNNNNNNNN!	1	5184
Tth111III	!NNNNNNNNNTGYTTG	3	4292; 5152; 5191
UnbI	!GGNCC	18	82; 275; 653; 831; 1074; 1166; 1271; 1437; 2230; 2305; 2386; 2486; 2963; 4372; 4817; 4863; 4921; 4954
Van91I	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	1	2739

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
VneI	G!TGCAC	2	762; 5461
VpaK11AI	!GGWCC	4	1271; 1437; 4372; 4817
VpaK11BI	G!GWCC	4	1272; 1438; 4373; 4818
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	5	629; 2325; 2671; 2775; 2786
XbaI	T!CTAGA	1	2511
XceI	RCATG!Y	5	714; 3427; 3499; 4262; 5779
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	12	585; 609; 660; 1222; 1408; 4028; 4274; 4666; 5025; 5037; 5123; 5134
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	3679; 4694
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	11	592; 1361; 1750; 2228; 2512; 2706; 3124; 3680; 4695; 5029; 5282
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3429; 3501; 5832