

## peTurboGFP-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	2769; 2974
AarI	CACCTGCNNNN!	1	1130
AarI	!NNNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	3057; 4013; 5802
AatI	AGG!CCT	1	3807
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	640
AccII	CG!CG	19	60; 651; 1025; 1181; 1286; 1519; 2910; 3286; 3306; 3330; 3361; 4052; 4353; 4791; 4875; 4938; 5007; 5280; 5861
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	4088
Acc36I	ACCTGCNNNN!	4	857; 1130; 4254; 4704
Acc36I	!NNNNNNNNNGCAGGT	1	3873
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	10	465; 645; 733; 778; 826; 889; 1051; 3139; 3985; 4020
AccB7I	CCANNNN!NTGG	1	864
AccBSI	CCG!CTC	2	3410; 4599
AccBSI	GAG!CGG	4	695; 1460; 3246; 4653
AceIII	CAGCTCNNNNNNN!	3	1209; 2415; 2942
AceIII	!NNNNNNNNNNNGAGCTG	3	552; 745; 1300
AciI	C!CGC	45	58; 86; 98; 112; 279; 507; 589; 649; 704; 723; 795; 957; 1008; 1023; 1098; 1164; 1281; 1284; 1402; 1517; 1774; 3301; 3304; 3318; 3408; 3656; 3668; 3677; 3689; 3699; 3710; 3756; 3895; 3958; 4460; 4505; 4571; 4597; 4722; 4725; 4873; 5005; 5312; 5456; 5952
AciI	G!CGG	35	370; 403; 528; 651; 695; 767; 770; 902; 941; 980; 1187; 1408; 1414; 1460; 1513; 3246; 3273; 3361; 3471; 4052; 4116; 4217; 4220; 4500; 4555; 4653; 4791; 4938; 5078; 5321; 5566; 5687; 5706; 5833; 5861
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	12	668; 1304; 1507; 1545; 1701; 3854; 4165; 4411; 4803; 5162; 5260; 5346
AclWI	!NNNNNGATCC	7	580; 655; 1532; 4230; 4774; 5161; 5258
AcoI	Y!GGCCR	6	1020; 1514; 3892; 4066; 4457; 4484
AcsI	R!AATTY	5	629; 2454; 2800; 2904; 2915
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	2	4132; 4564
AcuI	!NNNNNNNNNNNNNNCTTCAG	5	822; 984; 1155; 1534; 5362
AcvI	CAC!GTG	3	861; 993; 1534
AcyI	GR!CGYC	8	122; 175; 258; 444; 827; 3986; 4688; 4767
AdeI	CACNNN!GTG	1	3102
AfaI	GT!AC	13	219; 244; 299; 332; 383; 540; 647; 970; 1330; 1641; 1883; 2015; 4292
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	22	49; 789; 864; 1014; 1287; 1407; 2033; 2998; 3324; 3716; 3967; 4511; 4792; 4824; 4956; 4991; 5041; 5073; 5426; 5705; 5871; 5889
AflII	C!TTAAG	1	2868
AflIII	A!CRYGT	1	5904
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	8	1041; 1227; 1344; 3397; 3441; 3451; 3864; 5440
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjnI	!CCWGG	14	88; 281; 1451; 2407; 2512; 3520; 3575; 3592; 4371; 4950; 5053; 5743; 5756; 5877
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AlcI	CACNN!NNGTG	0	
AlfI	GCANNNNNTGCNNNNNNNNNN!	2	3560; 3632
AlfI	!NNNNNNNNNGCANNNNNTGC	2	3526; 3598
AloI	GAACNNNNNTCCNNNNNNNNNN!	1	3068
AloI	!NNNNNNNGGANNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	1	3036
AluI	AG!CT	26	566; 618; 624; 759; 998; 1004; 1157; 1199; 1314; 1528; 2288; 2299; 2356; 2405; 2535; 2765; 2932; 3189; 3484; 3772; 4092; 4550; 5347; 5604; 5650; 5740
AluBI	AG!CT	26	566; 618; 624; 759; 998; 1004; 1157; 1199; 1314; 1528; 2288; 2299; 2356; 2405; 2535; 2765; 2932; 3189; 3484; 3772; 4092; 4550; 5347; 5604; 5650; 5740
AlwI	GGATCNNNN!	12	668; 1304; 1507; 1545; 1701; 3854; 4165; 4411; 4803; 5162; 5260; 5346
AlwI	!NNNNNGATCC	7	580; 655; 1532; 4230; 4774; 5161; 5258
Alw21I	GWGCW!C	6	620; 820; 1121; 4099; 4289; 5594
Alw26I	GTCTCN!	2	434; 1692
Alw26I	!NNNNNGAGAC	4	3410; 3828; 4847; 4975
Alw44I	G!TGCAC	1	5590
AlwNI	CAGNNN!CTG	3	2408; 5087; 5495
Ama87I	C!YCGRG	5	613; 656; 784; 1063; 1379
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	2	657; 1267
ApaBI	GCANNNN!TGC	4	1487; 3554; 3626; 5088
ApaLI	G!TGCAC	1	5590
ApeKI	G!CWGC	21	987; 1100; 1154; 1434; 1480; 1528; 2285; 2475; 2762; 3281; 3946; 4047; 4089; 4130; 4223; 4610; 5063; 5289; 5495; 5498; 5563
ApoI	R!AATTY	5	629; 2454; 2800; 2904; 2915
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4501
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4295; 4948; 5786
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	4385
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	2	1316; 3814
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTTCCYC	3	1041; 2375; 4556
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNCRANNNNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	30	586; 610; 661; 714; 1029; 1077; 1092; 1144; 1297; 1376; 1500; 1538; 1694; 2644; 3824; 3828; 3847; 4158; 4236; 4317; 4326; 4404; 4780; 4796; 5155; 5167; 5245; 5253; 5264; 5339
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4104
Asp700I	GAANN!NNTTC	1	916
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	3808; 4823
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	25	597; 829; 1181; 1234; 1419; 3252; 3260; 3286; 3308; 3317; 3330; 3361; 3980; 3988; 4052; 4089; 4355; 4615; 4791; 4877; 5280; 5389; 5563; 5663; 5730

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AspS9I	G!GNCC	17	83; 276; 654; 792; 1264; 1467; 1567; 2360; 2435; 2516; 2616; 3093; 4502; 4947; 4993; 5051; 5084
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 4668
AsuC2I	CC!SGG	7	657; 658; 1351; 3990; 4150; 4763; 5527
AsuHPI	GGTGANNNNNNNN!	6	376; 1056; 1378; 1567; 5057; 5173
AsuHPI	!NNNNNNNTCACC	7	720; 1074; 1152; 1465; 2450; 3103; 4164
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	5	613; 656; 784; 1063; 1379
AvaII	G!GWCC	4	1467; 1567; 4502; 4947
AviII	TGC!GCA	1	4088
AvrII	C!CTAGG	2	3808; 4823
AxyI	CC!TNAGG	2	3466; 5098
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	657; 781; 1054; 1267; 1452; 3932; 4025; 5594
BalI	TGG!CCA	1	4068
BamHI	G!GATCC	2	660; 1537
BanI	G!GYRCC	10	465; 645; 733; 778; 826; 889; 1051; 3139; 3985; 4020
BanII	GRGCY!C	6	620; 657; 1267; 3177; 4351; 5061
BanIII	AT!CGAT	1	3826
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	864
BauI	C!ACGAG	2	4704; 5731
BauI	C!TCGTG	1	4578
BbeI	GGCGC!C	2	830; 3989
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	3	861; 993; 1534
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	3556; 3628; 4391
BbvI	GCAGCNNNNNNNN!	10	1112; 1166; 1492; 2297; 2774; 4059; 4101; 4622; 5075; 5575
BbvI	!NNNNNNNNNNNGCTGC	10	974; 1421; 1515; 2462; 3268; 3933; 4117; 4210; 5276; 5482
Bbv12I	GWGCW!C	6	620; 820; 1121; 4099; 4289; 5594
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	7	937; 1243; 2446; 3116; 3680; 4206; 4708
BccI	!NNNNNGATGG	8	858; 1041; 1144; 1420; 1458; 3084; 3864; 4292
BceAI	ACGGCNNNNNNNNNNNN!	7	759; 888; 954; 993; 1200; 4412; 4899
BceAI	!NNNNNNNNNNNNNGCCGT	3	3127; 3945; 5404
BcefI	ACGGCNNNNNNNNNNNN!	7	759; 888; 954; 993; 1200; 4412; 4899
BcefI	!NNNNNNNNNNNNNGCCGT	3	3128; 3946; 5405
BcgI	CGANNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3415; 4205; 5706
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	7	657; 658; 1351; 3990; 4150; 4763; 5527
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNNNN!	1	5839
BdaI	!NNNNNNNNNTGANNNNNTCA	1	5805
BfaI	C!TAG	11	592; 1496; 1879; 2357; 2641; 2835; 3253; 3809; 4824; 5158; 5411
BfiI	ACTGGGNNNNN!	2	2608; 3935
BfiI	!NNNNCCAGT	2	289; 3687

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BfmI	C!TRYAG	7	634; 1194; 1252; 1478; 3321; 5448; 5639
BfoI	RGCGC!Y	7	598; 830; 1235; 3253; 3261; 3989; 5664
BfrI	C!TTAAG	1	2868
BfuI	GTATCCNNNNNN!	3	3415; 4205; 5706
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	857; 1130; 4254; 4704
BfuAI	!NNNNNNNGCAGGT	1	3873
BfuCI	!GATC	30	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1375; 1499; 1537; 1693; 2643; 3823; 3827; 3846; 4157; 4235; 4316; 4325; 4403; 4779; 4795; 5154; 5166; 5244; 5252; 5263; 5338
BglI	GCCNNNN!NGGC	4	90; 212; 283; 3761
BglII	A!GATCT	2	609; 1375
BisI	GC!NGC	49	696; 723; 768; 795; 903; 942; 981; 988; 1023; 1101; 1155; 1188; 1284; 1415; 1435; 1481; 1514; 1517; 1529; 2286; 2476; 2763; 3282; 3304; 3318; 3756; 3895; 3947; 3958; 4048; 4053; 4090; 4131; 4218; 4221; 4224; 4460; 4556; 4597; 4611; 4725; 5064; 5079; 5290; 5496; 5499; 5564; 5707; 5862
BlnI	C!CTAGG	2	3808; 4823
BlpI	GC!TNAGC	1	853
BlsI	GCN!GC	49	697; 724; 769; 796; 904; 943; 982; 989; 1024; 1102; 1156; 1189; 1285; 1416; 1436; 1482; 1515; 1518; 1530; 2287; 2477; 2764; 3283; 3305; 3319; 3757; 3896; 3948; 3959; 4049; 4054; 4091; 4132; 4219; 4222; 4225; 4461; 4557; 4598; 4612; 4726; 5065; 5080; 5291; 5497; 5500; 5565; 5708; 5863
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	4	1467; 1567; 4502; 4947
Bme1390I	CC!NGG	21	90; 283; 657; 658; 1351; 1453; 2409; 2514; 3522; 3577; 3594; 3990; 4150; 4373; 4763; 4952; 5055; 5527; 5745; 5758; 5879
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	5	613; 656; 784; 1063; 1379
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	17	84; 277; 655; 793; 1265; 1468; 1568; 2361; 2436; 2517; 2617; 3094; 4503; 4948; 4994; 5052; 5085
BmiI	GGN!NCC	26	467; 647; 655; 662; 735; 780; 828; 891; 1053; 1265; 1539; 1568; 2569; 3141; 3162; 3174; 3365; 3526; 3598; 3987; 4022; 4870; 4949; 4994; 5837; 5876
BmrI	ACTGGGNNNNN!	2	2608; 3935
BmrI	!NNNNCCAGT	2	289; 3687
BmrFI	CC!NGG	21	90; 283; 657; 658; 1351; 1453; 2409; 2514; 3522; 3577; 3594; 3990; 4150; 4373; 4763; 4952; 5055; 5527; 5745; 5758; 5879
BmsI	GCATCNNNNN!	11	734; 968; 1256; 1328; 1682; 2802; 3565; 3637; 4285; 4349; 4624
BmsI	!NNNNNNNNNGATGC	6	357; 1344; 3944; 4199; 4415; 5807
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	2608; 3935
BmuI	!NNNNCCAGT	2	289; 3687
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNGTCTTC	0	
BpII	GAGNNNNNCTCNNNNNNNNNNNNNN!	2	3775; 4674
BpII	!NNNNNNNGAGNNNNNCTC	2	3743; 4642
BpmI	CTGGAGNNNNNNNNNNNNNNNNNN!	1	4826
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	4769
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 4668
Bpu1102I	GC!TNAGC	1	853
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNNNN!	3	2641; 5280; 5819

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BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	604; 4362; 5521
BpuMI	CC!SGG	7	657; 658; 1351; 3990; 4150; 4763; 5527
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	4975
Bsa29I	AT!CGAT	1	3826
BsaAI	YAC!GTR	6	340; 861; 993; 1534; 3102; 4290
BsaBI	GATNN!NNATC	3	1142; 2648; 3845
BsaHI	GR!CGYC	8	122; 175; 258; 444; 827; 3986; 4688; 4767
BsaJI	C!CNNGG	28	360; 649; 656; 677; 707; 1064; 1112; 1130; 1202; 1349; 1392; 1451; 2408; 2512; 3520; 3592; 3715; 3750; 3759; 3808; 4149; 4418; 4823; 4950; 4951; 5053; 5054; 5744
BsaMI	GAATGCN!	1	2737
BsaMI	G!CATTC	1	2830
BsaWI	W!CCGGW	6	600; 666; 4017; 4861; 5551; 5698
BsaXI	ACNNNNNNCTCCNNNNNNNNNN!	2	1213; 3066
BsaXI	!NNNNNNNGGAGNNNNNGT	1	703
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	733
BsaXI	!NNNNNNNNACNNNNNNCTCC	2	1183; 3036
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN	2	977; 1331
BsbI	!NNNNNNNNNNNNNNNNNGTGTTG	2	2987; 4894
Bsc4I	CCNNNNN!NNGG	22	49; 789; 864; 1014; 1287; 1407; 2033; 2998; 3324; 3716; 3967; 4511; 4792; 4824; 4956; 4991; 5041; 5073; 5426; 5705; 5871; 5889
BscAI	GCATCNNNN!	11	733; 967; 1255; 1327; 1681; 2801; 3564; 3636; 4284; 4348; 4623
BscAI	!NNNNNGATGC	6	360; 1347; 3947; 4202; 4418; 5810
Bse1I	ACTGGN!	4	2603; 3930; 4131; 5377
Bse1I	C!CAGT	6	295; 2466; 3015; 3693; 5489; 5502
Bse8I	GATNN!NNATC	3	1142; 2648; 3845
Bse21I	CC!TNAGG	2	3466; 5098
Bse118I	R!CCGGY	10	666; 730; 1018; 1054; 1363; 1404; 3203; 4305; 4486; 4769
BseAI	T!CCGGA	0	
BseBI	CC!WGG	14	90; 283; 1453; 2409; 2514; 3522; 3577; 3594; 4373; 4952; 5055; 5745; 5758; 5879
BseCI	AT!CGAT	1	3826
BseDI	C!CNNGG	28	360; 649; 656; 677; 707; 1064; 1112; 1130; 1202; 1349; 1392; 1451; 2408; 2512; 3520; 3592; 3715; 3750; 3759; 3808; 4149; 4418; 4823; 4950; 4951; 5053; 5054; 5744
Bse3DI	GCAATGNN!	1	4219
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	8	1155; 1359; 1428; 1469; 3846; 4303; 4328; 4782
BseGI	!CATCC	4	1094; 1235; 1247; 3672
BseJI	GATNN!NNATC	3	1142; 2648; 3845
BseLI	CCNNNNN!NNGG	22	49; 789; 864; 1014; 1287; 1407; 2033; 2998; 3324; 3716; 3967; 4511; 4792; 4824; 4956; 4991; 5041; 5073; 5426; 5705; 5871; 5889
BseMI	GCAATGNN!	1	4219
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	3	620; 1703; 5112
BseMII	!NNNNNNNNCTGAG	9	844; 1533; 1825; 2337; 3457; 3759; 4640; 5212; 5621
BseNI	ACTGGN!	4	2603; 3930; 4131; 5377
BseNI	C!CAGT	6	295; 2466; 3015; 3693; 5489; 5502
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1306; 3804
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCM!C	8	657; 781; 1054; 1267; 1452; 3932; 4025; 5594
BseXI	GCAGCNNNNNNNN!	10	1112; 1166; 1492; 2297; 2774; 4059; 4101; 4622; 5075; 5575
BseXI	!NNNNNNNNNNNGCTGC	10	974; 1421; 1515; 2462; 3268; 3933; 4117; 4210; 5276; 5482
BseX3I	C!GGCCG	3	1020; 1514; 3892
BseYI	C!CCAGC	5	898; 1243; 3529; 3601; 5600
BseYI	G!CTGGG	2	1314; 4490
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	2490
BsgI	!NNNNNNNNNNNNNNCTGCAC	4	907; 973; 1108; 1514

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Bsh1236I	CG!CG	19	60; 651; 1025; 1181; 1286; 1519; 2910; 3286; 3306; 3330; 3361; 4052; 4353; 4791; 4875; 4938; 5007; 5280; 5861
Bsh1285I	CGRY!CG	5	671; 1023; 1517; 3895; 5570
BshFI	GG!CC	30	84; 277; 655; 698; 794; 1018; 1022; 1265; 1516; 2361; 2436; 2517; 2618; 2952; 3094; 3749; 3755; 3764; 3807; 3894; 4068; 4459; 4486; 4995; 5052; 5085; 5430; 5864; 5882; 5893
BshNI	G!GYRCC	10	465; 645; 733; 778; 826; 889; 1051; 3139; 3985; 4020
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	3826
BsiEI	CGRY!CG	5	671; 1023; 1517; 3895; 5570
BsiHKAI	GWGCW!C	6	620; 820; 1121; 4099; 4289; 5594
BsiHKCI	C!YCGRG	5	613; 656; 784; 1063; 1379
BsiSI	C!CGG	25	601; 657; 667; 731; 1019; 1055; 1351; 1364; 1405; 3204; 3891; 3968; 3990; 4018; 4149; 4239; 4306; 4487; 4762; 4770; 4862; 5336; 5526; 5552; 5699
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	22	49; 789; 864; 1014; 1287; 1407; 2033; 2998; 3324; 3716; 3967; 4511; 4792; 4824; 4956; 4991; 5041; 5073; 5426; 5705; 5871; 5889
BsIFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1580; 4137; 4669; 4778
BsIFI	!NNNNNNNNNNNGTCCC	4	3502; 3574; 3638; 4933
BsmI	GAATGCN!	1	2737
BsmI	G!CATTC	1	2830
BsmAI	GTCTCN!	2	434; 1692
BsmAI	!NNNNNGAGAC	4	3410; 3828; 4847; 4975
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1580; 4137; 4669; 4778
BsmFI	!NNNNNNNNNNNGTCCC	4	3502; 3574; 3638; 4933
BsnI	GG!CC	30	84; 277; 655; 698; 794; 1018; 1022; 1265; 1516; 2361; 2436; 2517; 2618; 2952; 3094; 3749; 3755; 3764; 3807; 3894; 4068; 4459; 4486; 4995; 5052; 5085; 5430; 5864; 5882; 5893
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	4975
BsoBI	C!YCGRG	5	613; 656; 784; 1063; 1379
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	7	360; 677; 707; 1130; 1392; 3715; 4418
Bsp24I	GACNNNNNTGGNNNNNNNNNNNN!	2	289; 4789
Bsp24I	!NNNNNNCCANNNNNGTC	2	5210; 5388
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	5242; 5420
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4757
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 4668
Bsp120I	G!GGCCC	2	653; 1263
Bsp143I	!GATC	30	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1375; 1499; 1537; 1693; 2643; 3823; 3827; 3846; 4157; 4235; 4316; 4325; 4403; 4779; 4795; 5154; 5166; 5244; 5252; 5263; 5338
Bsp1286I	GDGCH!C	16	620; 657; 781; 820; 1054; 1121; 1267; 1452; 3177; 3932; 4025; 4099; 4289; 4351; 5061; 5594
Bsp1407I	T!GTACA	1	2013
Bsp1720I	GC!TNAGC	1	853
BspACI	C!CGC	45	58; 86; 98; 112; 279; 507; 589; 649; 704; 723; 795; 957; 1008; 1023; 1098; 1164; 1281; 1284; 1402; 1517; 1774; 3301; 3304; 3318; 3408; 3656; 3668; 3677; 3689; 3699; 3710; 3756; 3895; 3958; 4460; 4505; 4571; 4597; 4722; 4725; 4873; 5005; 5312; 5456; 5952
BspACI	G!CGG	35	370; 403; 528; 651; 695; 767; 770; 902; 941; 980; 1187; 1408; 1414; 1460; 1513; 3246; 3273; 3361; 3471; 4052; 4116; 4217; 4220; 4500; 4555; 4653; 4791; 4938; 5078; 5321; 5566; 5687; 5706; 5833; 5861
BspCNI	CTCAGNNNNNNNN!	3	619; 1702; 5111
BspCNI	!NNNNNNCTGAG	9	845; 1534; 1826; 2338; 3458; 3760; 4641; 5213; 5622
BspDI	AT!CGAT	1	3826
BspD6I	GACTCNNNN!	5	418; 612; 3059; 4665; 5542

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspD6I	!NNNNNNGAGTC	4	1551; 2341; 3022; 3454
BspEI	T!CCGGA	0	
BspFNI	CG!CG	19	60; 651; 1025; 1181; 1286; 1519; 2910; 3286; 3306; 3330; 3361; 4052; 4353; 4791; 4875; 4938; 5007; 5280; 5861
BspHI	T!CATGA	2	3412; 5184
BspLI	GGN!NCC	26	467; 647; 655; 662; 735; 780; 828; 891; 1053; 1265; 1539; 1568; 2569; 3141; 3162; 3174; 3365; 3526; 3598; 3987; 4022; 4870; 4949; 4994; 5837; 5876
BspMI	ACCTGCNNNN!	4	857; 1130; 4254; 4704
BspMI	!NNNNNNNNGCAGGT	1	3873
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	12	668; 1304; 1507; 1545; 1701; 3854; 4165; 4411; 4803; 5162; 5260; 5346
BspPI	!NNNNNGATCC	7	580; 655; 1532; 4230; 4774; 5161; 5258
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	808; 4330; 4540
BspTI	C!TTAAG	1	2868
BspT104I	TT!CGAA	2	627; 4668
BspT107I	G!GYRCC	10	465; 645; 733; 778; 826; 889; 1051; 3139; 3985; 4020
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	4975
BsrI	ACTGGN!	4	2603; 3930; 4131; 5377
BsrI	C!CAGT	6	295; 2466; 3015; 3693; 5489; 5502
BsrBI	CCG!CTC	2	3410; 4599
BsrBI	GAG!CGG	4	695; 1460; 3246; 4653
BsrDI	GCAATGNN!	1	4219
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	10	666; 730; 1018; 1054; 1363; 1404; 3203; 4305; 4486; 4769
BsrGI	T!GTACA	1	2013
BsrSI	ACTGGN!	4	2603; 3930; 4131; 5377
BsrSI	C!CAGT	6	295; 2466; 3015; 3693; 5489; 5502
BssAI	R!CCGGY	10	666; 730; 1018; 1054; 1363; 1404; 3203; 4305; 4486; 4769
BssECI	C!CNNGG	28	360; 649; 656; 677; 707; 1064; 1112; 1130; 1202; 1349; 1392; 1451; 2408; 2512; 3520; 3592; 3715; 3750; 3759; 3808; 4149; 4418; 4823; 4950; 4951; 5053; 5054; 5744
BssHII	G!CGCGC	0	
BssKI	!CCNGG	21	88; 281; 655; 656; 1349; 1451; 2407; 2512; 3520; 3575; 3592; 3988; 4148; 4371; 4761; 4950; 5053; 5525; 5743; 5756; 5877
BssMI	!GATC	30	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1375; 1499; 1537; 1693; 2643; 3823; 3827; 3846; 4157; 4235; 4316; 4325; 4403; 4779; 4795; 5154; 5166; 5244; 5252; 5263; 5338
BssNI	GR!CGYC	8	122; 175; 258; 444; 827; 3986; 4688; 4767
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4704; 5731
BssSI	C!TCGTG	1	4578
BssT1I	C!CWWGG	9	360; 677; 707; 1130; 1392; 3715; 3808; 4418; 4823
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	808; 3453; 4330; 4540
Bst98I	C!TTAAG	1	2868
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 827; 3986; 4688; 4767
BstAFI	C!TTAAG	1	2868
BstAPI	GCANNNN!NTGC	4	1486; 3553; 3625; 5087
BstAUI	T!GTACA	1	2013
BstBI	TT!CGAA	2	627; 4668
Bst2BI	C!ACGAG	2	4704; 5731
Bst2BI	C!TCGTG	1	4578
BstBAI	YAC!GTR	6	340; 861; 993; 1534; 3102; 4290
Bst4CI	ACN!GT	19	76; 198; 269; 543; 581; 645; 1113; 1471; 1644; 1872; 2187; 3077; 4366; 4482; 4590; 4913; 5404; 5874; 5945

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstC8I	GCN!NGC	39	86; 279; 593; 653; 704; 926; 985; 1020; 1177; 1337; 1406; 1432; 2434; 2473; 2537; 3205; 3248; 3262; 3535; 3554; 3607; 3626; 3880; 4066; 4285; 4351; 4357; 4389; 4430; 4434; 4488; 4771; 4958; 5005; 5061; 5083; 5294; 5854; 5891
BstDEI	C!TNAG	14	606; 853; 1542; 1689; 1834; 2346; 2531; 2581; 3466; 3768; 4649; 5098; 5221; 5630
BstDSI	C!CRYGG	10	360; 649; 677; 707; 1112; 1130; 1202; 1392; 3715; 4418
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	8	1155; 1359; 1428; 1469; 3846; 4303; 4328; 4782
BstF5I	!CATCC	4	1094; 1235; 1247; 3672
BstFNI	CG!CG	19	60; 651; 1025; 1181; 1286; 1519; 2910; 3286; 3306; 3330; 3361; 4052; 4353; 4791; 4875; 4938; 5007; 5280; 5861
BstH2I	RGCGC!Y	7	598; 830; 1235; 3253; 3261; 3989; 5664
BstHHI	GCG!C	25	597; 829; 1181; 1234; 1419; 3252; 3260; 3286; 3308; 3317; 3330; 3361; 3980; 3988; 4052; 4089; 4355; 4615; 4791; 4877; 5280; 5389; 5563; 5663; 5730
BstKTI	GAT!C	30	588; 612; 663; 716; 1031; 1079; 1094; 1146; 1299; 1378; 1502; 1540; 1696; 2646; 3826; 3830; 3849; 4160; 4238; 4319; 4328; 4406; 4782; 4798; 5157; 5169; 5247; 5255; 5266; 5341
BstMAI	GTCTCN!	2	434; 1692
BstMAI	!NNNNNGAGAC	4	3410; 3828; 4847; 4975
BstMBI	!GATC	30	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1375; 1499; 1537; 1693; 2643; 3823; 3827; 3846; 4157; 4235; 4316; 4325; 4403; 4779; 4795; 5154; 5166; 5244; 5252; 5263; 5338
BstMCI	CGRY!CG	5	671; 1023; 1517; 3895; 5570
BstMWI	GCNNNNN!NNGC	36	90; 212; 244; 283; 376; 400; 692; 731; 776; 824; 1031; 1163; 1187; 1414; 1486; 1525; 2502; 3213; 3243; 3270; 3312; 3553; 3625; 3676; 3755; 3977; 4061; 4084; 4223; 4346; 4429; 4696; 4883; 5087; 5286; 5858
BstNI	CC!WGG	14	90; 283; 1453; 2409; 2514; 3522; 3577; 3594; 4373; 4952; 5055; 5745; 5758; 5879
BstNSI	RCATG!Y	5	1221; 3556; 3628; 4391; 5908
BstOI	CC!WGG	14	90; 283; 1453; 2409; 2514; 3522; 3577; 3594; 4373; 4952; 5055; 5745; 5758; 5879
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	21	88; 281; 655; 656; 1349; 1451; 2407; 2512; 3520; 3575; 3592; 3988; 4148; 4371; 4761; 4950; 5053; 5525; 5743; 5756; 5877
BstSFI	C!TRYAG	7	634; 1194; 1252; 1478; 3321; 5448; 5639
BstSLI	GKGCMI!C	8	657; 781; 1054; 1267; 1452; 3932; 4025; 5594
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 651; 1025; 1181; 1286; 1519; 2910; 3286; 3306; 3330; 3361; 4052; 4353; 4791; 4875; 4938; 5007; 5280; 5861
Bst2UI	CC!WGG	14	90; 283; 1453; 2409; 2514; 3522; 3577; 3594; 4373; 4952; 5055; 5745; 5758; 5879
BstV1I	GCAGCNNNNNNN!	10	1112; 1166; 1492; 2297; 2774; 4059; 4101; 4622; 5075; 5575
BstV1I	!NNNNNNNNNNNGCTGC	10	974; 1421; 1515; 2462; 3268; 3933; 4117; 4210; 5276; 5482
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	1	2445
BstX2I	R!GATCY	12	585; 609; 660; 1375; 1537; 4157; 4403; 4795; 5154; 5166; 5252; 5263
BstYI	R!GATCY	12	585; 609; 660; 1375; 1537; 4157; 4403; 4795; 5154; 5166; 5252; 5263
BstZI	C!GGCCG	3	1020; 1514; 3892
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3415; 4205; 5706
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3826
Bsu36I	CC!TNAGG	2	3466; 5098



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsuRI	GG!CC	30	84; 277; 655; 698; 794; 1018; 1022; 1265; 1516; 2361; 2436; 2517; 2618; 2952; 3094; 3749; 3755; 3764; 3807; 3894; 4068; 4459; 4486; 4995; 5052; 5085; 5430; 5864; 5882; 5893
BsuTUI	AT!CGAT	1	3826
BtgI	C!CRYGG	10	360; 649; 677; 707; 1112; 1130; 1202; 1392; 3715; 4418
BtgZI	GCGATGNNNNNNNNNN!	2	3103; 4438
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 4257; 4601
BthCI	GCNG!C	49	698; 725; 770; 797; 905; 944; 983; 990; 1025; 1103; 1157; 1190; 1286; 1417; 1437; 1483; 1516; 1519; 1531; 2288; 2478; 2765; 3284; 3306; 3320; 3758; 3897; 3949; 3960; 4050; 4055; 4092; 4133; 4220; 4223; 4226; 4462; 4558; 4599; 4613; 4727; 5066; 5081; 5292; 5498; 5501; 5566; 5709; 5864
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2825
BtsCI	GGATGNN!	8	1155; 1359; 1428; 1469; 3846; 4303; 4328; 4782
BtsCI	!CATCC	4	1094; 1235; 1247; 3672
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	857; 1130; 4254; 4704
BveI	!NNNNNNNNNGCAGGT	1	3873
Cac8I	GCN!NGC	39	86; 279; 593; 653; 704; 926; 985; 1020; 1177; 1337; 1406; 1432; 2434; 2473; 2537; 3205; 3248; 3262; 3535; 3554; 3607; 3626; 3880; 4066; 4285; 4351; 4357; 4389; 4430; 4434; 4488; 4771; 4958; 5005; 5061; 5083; 5294; 5854; 5891
CaiI	CAGNNN!CTG	3	2408; 5087; 5495
CciI	T!CATGA	2	3412; 5184
CciNI	GC!GGCCGC	1	1514
CdiI	CATC!G	7	352; 963; 1323; 4275; 4280; 4478; 4619
CdiI	C!GATG	2	3089; 4424
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	2	795; 5858
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	4	486; 1753; 3647; 3689
CelII	GC!TNAGC	1	853
CfoI	GCG!C	25	597; 829; 1181; 1234; 1419; 3252; 3260; 3286; 3308; 3317; 3330; 3361; 3980; 3988; 4052; 4089; 4355; 4615; 4791; 4877; 5280; 5389; 5563; 5663; 5730
CfrI	Y!GGCCR	6	1020; 1514; 3892; 4066; 4457; 4484
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	10	666; 730; 1018; 1054; 1363; 1404; 3203; 4305; 4486; 4769
Cfr13I	G!GNCC	17	83; 276; 654; 792; 1264; 1467; 1567; 2360; 2435; 2516; 2616; 3093; 4502; 4947; 4993; 5051; 5084
Cfr42I	CCGC!GG	1	652
ChaI	GATC!	30	589; 613; 664; 717; 1032; 1080; 1095; 1147; 1300; 1379; 1503; 1541; 1697; 2647; 3827; 3831; 3850; 4161; 4239; 4320; 4329; 4407; 4783; 4799; 5158; 5170; 5248; 5256; 5267; 5342
CjeI	CCANNNNNGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	5	1464; 3803; 5243; 5343; 5421
CjeI	!NNNNNNNNNACNNNNNNNTGG	8	64; 257; 2392; 3470; 3565; 4757; 5307; 5862
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	8	98; 291; 2426; 3504; 3599; 4791; 5341; 5896
CjeI	!NNNNNNNNCCANNNNNNNGT	5	1430; 3769; 5209; 5309; 5387
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	2	5243; 5421
CjePI	!NNNNNNNNGANNNNNNNTGG	4	257; 2181; 4757; 5356
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	4	290; 2214; 4790; 5389
CjePI	!NNNNNNNNCCANNNNNNNTC	2	5210; 5388
Clal	AT!CGAT	1	3826
CpoI	CG!GWCCG	1	4502
CseI	GACGCNNNNN!	3	526; 4696; 4775
CseI	!NNNNNNNNNNNGCGTC	3	3319; 5214; 5792
CsiI	A!CCWGGT	1	3575
CspI	CG!GWCCG	1	4502
Csp6I	G!TAC	13	218; 243; 298; 331; 382; 539; 646; 969; 1329; 1640; 1882; 2014; 4291
Csp45I	TT!CGAA	2	627; 4668

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspAI	A!CCGGT	1	666
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	3266; 4875
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	26	301; 361; 678; 708; 798; 1131; 1218; 1269; 1393; 1440; 1611; 2156; 2375; 3413; 3553; 3625; 3716; 3857; 4202; 4388; 4419; 4445; 4801; 5185; 5905; 5956
CviJI	RG!CY	113	42; 84; 93; 277; 566; 618; 624; 655; 698; 759; 794; 842; 857; 869; 875; 905; 944; 998; 1004; 1018; 1022; 1058; 1157; 1175; 1190; 1199; 1214; 1265; 1314; 1391; 1397; 1483; 1516; 1528; 2288; 2299; 2335; 2356; 2361; 2405; 2436; 2475; 2496; 2505; 2517; 2535; 2618; 2655; 2765; 2932; 2952; 3094; 3175; 3189; 3203; 3484; 3525; 3597; 3720; 3749; 3755; 3764; 3772; 3795; 3807; 3813; 3894; 3911; 3919; 3946; 3971; 4055; 4064; 4068; 4092; 4130; 4206; 4223; 4242; 4305; 4349; 4359; 4376; 4459; 4486; 4490; 4527; 4550; 4566; 4746; 4773; 4834; 4956; 4995; 5052; 5059; 5066; 5085; 5096; 5347; 5376; 5419; 5430; 5495; 5574; 5599; 5604; 5650; 5740; 5838; 5864; 5882; 5893
CviKI-1	RG!CY	113	42; 84; 93; 277; 566; 618; 624; 655; 698; 759; 794; 842; 857; 869; 875; 905; 944; 998; 1004; 1018; 1022; 1058; 1157; 1175; 1190; 1199; 1214; 1265; 1314; 1391; 1397; 1483; 1516; 1528; 2288; 2299; 2335; 2356; 2361; 2405; 2436; 2475; 2496; 2505; 2517; 2535; 2618; 2655; 2765; 2932; 2952; 3094; 3175; 3189; 3203; 3484; 3525; 3597; 3720; 3749; 3755; 3764; 3772; 3795; 3807; 3813; 3894; 3911; 3919; 3946; 3971; 4055; 4064; 4068; 4092; 4130; 4206; 4223; 4242; 4305; 4349; 4359; 4376; 4459; 4486; 4490; 4527; 4550; 4566; 4746; 4773; 4834; 4956; 4995; 5052; 5059; 5066; 5085; 5096; 5347; 5376; 5419; 5430; 5495; 5574; 5599; 5604; 5650; 5740; 5838; 5864; 5882; 5893
CviQI	G!TAC	13	218; 243; 298; 331; 382; 539; 646; 969; 1329; 1640; 1882; 2014; 4291
DdeI	C!TNAG	14	606; 853; 1542; 1689; 1834; 2346; 2531; 2581; 3466; 3768; 4649; 5098; 5221; 5630
DinI	GGC!GCC	2	828; 3987
DpnI	GA!TC	30	587; 611; 662; 715; 1030; 1078; 1093; 1145; 1298; 1377; 1501; 1539; 1695; 2645; 3825; 3829; 3848; 4159; 4237; 4318; 4327; 4405; 4781; 4797; 5156; 5168; 5246; 5254; 5265; 5340
DpnII	!GATC	30	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1375; 1499; 1537; 1693; 2643; 3823; 3827; 3846; 4157; 4235; 4316; 4325; 4403; 4779; 4795; 5154; 5166; 5244; 5252; 5263; 5338
DraI	TTT!AAA	4	2058; 2688; 5130; 5149
DraII	RG!GNCCY	5	1263; 1567; 2360; 2616; 5084
DraIII	CACNNN!GTG	1	3102
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	266; 5466
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNNN!NNGTC	3	3057; 4013; 5802
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNNN!NNGTC	3	3057; 4013; 5802
EaeI	Y!GGCCR	6	1020; 1514; 3892; 4066; 4457; 4484
EagI	C!GGCCG	3	1020; 1514; 3892
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	4	808; 3453; 4330; 4540
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	4	808; 3453; 4330; 4540
EciI	GGCGGANNNNNNNNNNN!	5	785; 3486; 4515; 5702; 5848
EciI	!NNNNNNNNNNTCCGCC	5	496; 1270; 3657; 3678; 3699

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	3	1020; 1514; 3892
Eco24I	GRGCI!C	6	620; 657; 1267; 3177; 4351; 5061
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	4975
Eco32I	GAT!ATC	1	1386
Eco47I	G!GWCC	4	1467; 1567; 4502; 4947
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	3	1020; 1514; 3892
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	2	4132; 4564
Eco57I	!NNNNNNNNNNNNNNCTTCAG	5	822; 984; 1155; 1534; 5362
Eco72I	CAC!GTG	3	861; 993; 1534
Eco81I	CC!TNAGG	2	3466; 5098
Eco88I	C!YCGRG	5	613; 656; 784; 1063; 1379
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	9	360; 677; 707; 1130; 1392; 3715; 3808; 4418; 4823
Eco147I	AGG!CCT	1	3807
EcoHI	!CCSGG	7	655; 656; 1349; 3988; 4148; 4761; 5525
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	3	4132; 4564; 4826
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	6	822; 984; 1155; 1534; 4769; 5362
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	5	1263; 1567; 2360; 2616; 5084
EcoRI	G!AATTC	2	629; 2454
EcoRII	!CCWGG	14	88; 281; 1451; 2407; 2512; 3520; 3575; 3592; 4371; 4950; 5053; 5743; 5756; 5877
EcoRV	GAT!ATC	1	1386
EcoT14I	C!CWWGG	9	360; 677; 707; 1130; 1392; 3715; 3808; 4418; 4823
EcoT22I	ATGCA!T	3	3558; 3630; 5961
EcoT38I	GRGCI!C	6	620; 657; 1267; 3177; 4351; 5061
Eco53KI	GAG!CTC	1	618
EgeI	GGC!GCC	2	828; 3987
EheI	GGC!GCC	2	828; 3987
ErhI	C!CWWGG	9	360; 677; 707; 1130; 1392; 3715; 3808; 4418; 4823
EsaBC3I	TC!GA	18	615; 628; 641; 717; 756; 963; 1381; 3136; 3827; 4100; 4256; 4280; 4316; 4478; 4669; 4714; 4969; 5807
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	26	304; 364; 681; 711; 801; 1134; 1221; 1272; 1396; 1443; 1614; 2159; 2378; 3416; 3556; 3628; 3719; 3860; 4205; 4391; 4422; 4448; 4804; 5188; 5908; 5959
FaiI	YA!TR	86	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 709; 799; 1132; 1219; 1270; 1394; 1441; 1564; 1600; 1612; 1617; 1724; 1791; 1815; 1903; 1919; 1925; 1966; 1975; 1979; 1985; 2010; 2020; 2082; 2157; 2227; 2229; 2243; 2245; 2273; 2321; 2376; 2382; 2611; 2648; 2658; 2724; 2769; 2974; 3402; 3414; 3545; 3554; 3617; 3626; 3650; 3717; 3741; 3858; 3922; 4203; 4228; 4389; 4420; 4446; 4518; 4734; 4802; 4880; 4932; 5093; 5110; 5112; 5114; 5186; 5464; 5653; 5769; 5842; 5906; 5957
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	1	4326
FalI	!NNNNNNNNAAGNNNNNCTT	1	4294
FaqI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1580; 4137; 4669; 4778
FaqI	!NNNNNNNNNNNNNGTCCC	4	3502; 3574; 3638; 4933
FatI	!CATG	26	300; 360; 677; 707; 797; 1130; 1217; 1268; 1392; 1439; 1610; 2155; 2374; 3412; 3552; 3624; 3715; 3856; 4201; 4387; 4418; 4444; 4800; 5184; 5904; 5955
FauI	CCCGCNNNN!	12	93; 119; 286; 711; 964; 1171; 1409; 3308; 3663; 3684; 4880; 5012
FauI	!NNNNNGCGGG	7	644; 1453; 3239; 4109; 4646; 4784; 4931
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	640

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FmuI	GGNC!C	17	86; 279; 657; 795; 1267; 1470; 1570; 2363; 2438; 2519; 2619; 3096; 4505; 4950; 4996; 5054; 5087
Fnu4HI	GC!NGC	49	696; 723; 768; 795; 903; 942; 981; 988; 1023; 1101; 1155; 1188; 1284; 1415; 1435; 1481; 1514; 1517; 1529; 2286; 2476; 2763; 3282; 3304; 3318; 3756; 3895; 3947; 3958; 4048; 4053; 4090; 4131; 4218; 4221; 4224; 4460; 4556; 4597; 4611; 4725; 5064; 5079; 5290; 5496; 5499; 5564; 5707; 5862
FokI	GGATGNNNNNNNNN!	8	1162; 1366; 1435; 1476; 3853; 4310; 4335; 4789
FokI	!NNNNNNNNNNNNNCATCC	3	1081; 1222; 3659
FriOI	GRGCY!C	6	620; 657; 1267; 3177; 4351; 5061
FseI	GGCCGG!CC	1	1022
FspI	TGC!GCA	1	4088
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	11	592; 1496; 1879; 2357; 2641; 2835; 3253; 3809; 4824; 5158; 5411
FspEI	CCNNNNNNNNNNNN!	186	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 712; 736; 750; 795; 816; 834; 849; 871; 895; 910; 928; 942; 963; 1021; 1036; 1068; 1098; 1122; 1141; 1176; 1215; 1248; 1264; 1279; 1294; 1323; 1345; 1362; 1377; 1405; 1451; 1465; 1483; 1497; 1530; 1554; 1583; 1600; 1787; 1814; 1891; 1945; 2040; 2128; 2173; 2309; 2365; 2409; 2450; 2474; 2492; 2525; 2565; 2584; 2600; 2632; 2651; 2669; 2708; 2722; 2863; 2958; 2982; 3005; 3028; 3046; 3068; 3089; 3108; 3127; 3156; 3177; 3191; 3217; 3305; 3331; 3380; 3421; 3439; 3478; 3494; 3532; 3589; 3604; 3661; 3681; 3695; 3712; 3726; 3763; 3778; 3821; 3904; 3971; 4002; 4022; 4037; 4082; 4096; 4162; 4176; 4195; 4211; 4252; 4272; 4319; 4369; 4385; 4405; 4430; 4450; 4473; 4500; 4518; 4544; 4584; 4610; 4634; 4690; 4704; 4732; 4775; 4796; 4831; 4875; 4963; 4987; 5009; 5029; 5045; 5066; 5080; 5099; 5183; 5203; 5231; 5246; 5280; 5322; 5349; 5364; 5409; 5433; 5447; 5469; 5495; 5515; 5539; 5565; 5613; 5632; 5651; 5677; 5712; 5757; 5787; 5801; 5852; 5866; 5891; 5907; 5928; 5957
FspEI	!NNNNNNNNNNNNNNNGG	154	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 680; 716; 745; 775; 809; 850; 872; 923; 958; 1000; 1027; 1051; 1099; 1117; 1136; 1169; 1189; 1244; 1273; 1300; 1336; 1379; 1399; 1438; 1482; 1520; 1538; 1585; 1603; 1621; 1666; 1807; 1879; 1970; 2018; 2117; 2183; 2250; 2306; 2343; 2394; 2418; 2457; 2475; 2499; 2550; 2584; 2613; 2657; 2757; 2826; 2856; 2934; 2983; 3005; 3033; 3069; 3114; 3143; 3179; 3198; 3226; 3246; 3309; 3332; 3440; 3472; 3490; 3519; 3562; 3591; 3702; 3731; 3774; 3795; 3823; 3856; 3876; 3901; 3928; 3953; 3975; 4003; 4029; 4050; 4101; 4122; 4140; 4188; 4224; 4280; 4305; 4329; 4358; 4381; 4405; 4431; 4453; 4472; 4497; 4537; 4573; 4638; 4723; 4747; 4776; 4810; 4831; 4851; 4896; 4923; 4942; 4975; 5027; 5058; 5085; 5137; 5235; 5306; 5351; 5412; 5477; 5511; 5537; 5555; 5591; 5661; 5684; 5706; 5730; 5763; 5811; 5846; 5864; 5921
Fsp4HI	GC!NGC	49	696; 723; 768; 795; 903; 942; 981; 988; 1023; 1101; 1155; 1188; 1284; 1415; 1435; 1481; 1514; 1517; 1529; 2286; 2476; 2763; 3282; 3304; 3318; 3756; 3895; 3947; 3958; 4048; 4053; 4090; 4131; 4218; 4221; 4224; 4460; 4556; 4597; 4611; 4725; 5064; 5079; 5290; 5496; 5499; 5564; 5707; 5862
GdiII	C!GGCCR	3	1020; 1514; 3892
GdiII	Y!GGCCG	5	1020; 1514; 3892; 4457; 4484
GlaI	GC!GC	25	596; 828; 1180; 1233; 1418; 3251; 3259; 3285; 3307; 3316; 3329; 3360; 3979; 3987; 4051; 4088; 4354; 4614; 4790; 4876; 5279; 5388; 5562; 5662; 5729
GluI	GC!NGC	49	696; 723; 768; 795; 903; 942; 981; 988; 1023; 1101; 1155; 1188; 1284; 1415; 1435; 1481; 1514; 1517; 1529; 2286; 2476; 2763; 3282; 3304; 3318; 3756; 3895; 3947; 3958; 4048; 4053; 4090; 4131; 4218; 4221; 4224; 4460; 4556; 4597; 4611; 4725; 5064; 5079; 5290; 5496; 5499; 5564; 5707; 5862

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GsaI	CCCAG!C	5	902; 1247; 3533; 3605; 5604
GsaI	GCTGG!G	2	1318; 4494
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	4826
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	4769
HaeI	WGG!CCW	5	3807; 4068; 5430; 5882; 5893
HaeII	RGCGC!Y	7	598; 830; 1235; 3253; 3261; 3989; 5664
HaeIII	GG!CC	30	84; 277; 655; 698; 794; 1018; 1022; 1265; 1516; 2361; 2436; 2517; 2618; 2952; 3094; 3749; 3755; 3764; 3807; 3894; 4068; 4459; 4486; 4995; 5052; 5085; 5430; 5864; 5882; 5893
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	3	1488; 1985; 4182
HaeIV	!NNNNNNNNNGAYNNNNNRTC	3	1454; 1951; 4148
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	3	1487; 1984; 4181
HaeIV	!NNNNNNNNNGAYNNNNNRTC	3	1456; 1953; 4150
HapII	C!CGG	25	601; 657; 667; 731; 1019; 1055; 1351; 1364; 1405; 3204; 3891; 3968; 3990; 4018; 4149; 4239; 4306; 4487; 4762; 4770; 4862; 5336; 5526; 5552; 5699
HgaI	GACGCNNNNN!	3	526; 4696; 4775
HgaI	!NNNNNNNNNNNGCGTC	3	3319; 5214; 5792
HhaI	GCG!C	25	597; 829; 1181; 1234; 1419; 3252; 3260; 3286; 3308; 3317; 3330; 3361; 3980; 3988; 4052; 4089; 4355; 4615; 4791; 4877; 5280; 5389; 5563; 5663; 5730
Hin1I	GR!CGYC	8	122; 175; 258; 444; 827; 3986; 4688; 4767
Hin1II	CATG!	26	304; 364; 681; 711; 801; 1134; 1221; 1272; 1396; 1443; 1614; 2159; 2378; 3416; 3556; 3628; 3719; 3860; 4205; 4391; 4422; 4448; 4804; 5188; 5908; 5959
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	4	1487; 1984; 2654; 4181
Hin4I	!NNNNNNNNNGABNNNNNRTC	4	1455; 1952; 4149; 4179
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	4	1487; 1984; 4181; 4211
Hin4I	!NNNNNNNNNGAYNNNNNVTC	4	1455; 1952; 2622; 4149
Hin6I	G!CGC	25	595; 827; 1179; 1232; 1417; 3250; 3258; 3284; 3306; 3315; 3328; 3359; 3978; 3986; 4050; 4087; 4353; 4613; 4789; 4875; 5278; 5387; 5561; 5661; 5728
HinP1I	G!CGC	25	595; 827; 1179; 1232; 1417; 3250; 3258; 3284; 3306; 3315; 3328; 3359; 3978; 3986; 4050; 4087; 4353; 4613; 4789; 4875; 5278; 5387; 5561; 5661; 5728
HincII	GTY!RAC	2	641; 2749
HindII	GTY!RAC	2	641; 2749
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	15	410; 604; 1558; 2348; 2631; 3029; 3051; 3461; 4471; 4605; 4657; 4715; 4752; 5534; 5930
HpaI	GTT!AAC	1	2749
HpaII	C!CGG	25	601; 657; 667; 731; 1019; 1055; 1351; 1364; 1405; 3204; 3891; 3968; 3990; 4018; 4149; 4239; 4306; 4487; 4762; 4770; 4862; 5336; 5526; 5552; 5699
HphI	GGTGANNNNNNNN!	6	376; 1056; 1378; 1567; 5057; 5173
HphI	!NNNNNNNTCACC	7	720; 1074; 1152; 1465; 2450; 3103; 4164
Hpy8I	GTN!NAC	11	201; 539; 577; 641; 1209; 2014; 2749; 3033; 3050; 3105; 5592
Hpy99I	CGWCG!	10	645; 691; 1186; 4076; 4104; 4398; 4413; 4690; 5075; 5808
Hpy166II	GTN!NAC	11	201; 539; 577; 641; 1209; 2014; 2749; 3033; 3050; 3105; 5592
Hpy188I	TCN!GA	15	585; 609; 1835; 2347; 2485; 3160; 3769; 3953; 4297; 4650; 4751; 5230; 5364; 5717; 5795
Hpy188III	TC!NNGA	29	613; 963; 1147; 1227; 1344; 1379; 1381; 1541; 1691; 2641; 3413; 3465; 3778; 3831; 4004; 4320; 4329; 4412; 4468; 4512; 4602; 4635; 4704; 5185; 5259; 5342; 5440; 5538; 5672
HpyAV	CCTTCNNNNNN!	9	846; 927; 1179; 1287; 1350; 1599; 4631; 4738; 5417
HpyAV	!NNNNNGAAGG	9	1615; 2607; 3219; 4114; 4843; 4859; 5042; 5359; 5669
HpyCH4III	ACN!GT	19	76; 198; 269; 543; 581; 645; 1113; 1471; 1644; 1872; 2187; 3077; 4366; 4482; 4590; 4913; 5404; 5874; 5945
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 860; 992; 1533; 2416; 3046; 3058; 3101; 3211; 4102; 4289; 5070; 5203



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MbiI	GAG!CGG	4	695; 1460; 3246; 4653
MboI	!GATC	30	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1375; 1499; 1537; 1693; 2643; 3823; 3827; 3846; 4157; 4235; 4316; 4325; 4403; 4779; 4795; 5154; 5166; 5244; 5252; 5263; 5338
MboII	GAAGANNNNNNNN!	7	825; 1381; 3242; 3470; 4347; 4557; 5176
MboII	!NNNNNNNTCTTC	8	1071; 1760; 2062; 2384; 4637; 4804; 5004; 5247
McaTI	GCGC!GC	0	
MfeI	C!AATTG	2	1728; 2736
MflI	R!GATCY	12	585; 609; 660; 1375; 1537; 4157; 4403; 4795; 5154; 5166; 5252; 5263
MhlI	GDGCH!C	16	620; 657; 781; 820; 1054; 1121; 1267; 1452; 3177; 3932; 4025; 4099; 4289; 4351; 5061; 5594
MlsI	TGG!CCA	1	4068
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	4068
MlyI	GAGTCNNNNN!	4	1567; 2357; 3038; 3470
MlyI	!NNNNNGACTC	5	404; 598; 3045; 4651; 5528
Mly113I	GG!CGCC	2	827; 3986
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	2	2611; 3079
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	5511; 5695
MnlI	CCTCNNNNNNN!	10	2170; 2406; 2648; 2705; 3769; 4587; 4793; 5107; 5477; 5801
MnlI	!NNNNNGAGG	19	541; 768; 966; 1008; 1059; 1284; 2258; 2665; 3130; 3461; 3739; 3782; 3797; 3837; 3901; 4037; 4394; 4824; 5727
Mph1103I	ATGCA!T	3	3558; 3630; 5961
MreI	CG!CCGGCG	1	1404
MroI	T!CCGGA	0	
MroNI	G!CCGGC	5	1018; 1404; 3203; 4486; 4769
MroXI	GAANN!NNTTC	1	916
MscI	TGG!CCA	1	4068
MseI	T!TAA	28	7; 1604; 1745; 1795; 1803; 1844; 1853; 1955; 1990; 2005; 2057; 2077; 2203; 2562; 2687; 2748; 2869; 2890; 2901; 2913; 2924; 2941; 3039; 3310; 5129; 5143; 5148; 5200
MslI	CAYNN!NNRTG	4	365; 1678; 1982; 4423
MspI	C!CGG	25	601; 657; 667; 731; 1019; 1055; 1351; 1364; 1405; 3204; 3891; 3968; 3990; 4018; 4149; 4239; 4306; 4487; 4762; 4770; 4862; 5336; 5526; 5552; 5699
Msp20I	TGG!CCA	1	4068
MspA1I	CMG!CKG	6	651; 902; 3484; 4092; 5321; 5566
MspCI	C!TTAAG	1	2868

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	295	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; 702; 715; 729; 743; 759; 772; 796; 810; 833; 857; 871; 905; 921; 937; 962; 975; 996; 1026; 1053; 1067; 1086; 1101; 1125; 1141; 1159; 1175; 1188; 1215; 1228; 1255; 1272; 1297; 1312; 1327; 1344; 1362; 1376; 1391; 1405; 1430; 1443; 1457; 1473; 1489; 1508; 1530; 1544; 1564; 1584; 1623; 1648; 1672; 1701; 1735; 1763; 1787; 1806; 1831; 1846; 1864; 1881; 1922; 1936; 1977; 1990; 2029; 2045; 2110; 2128; 2144; 2168; 2187; 2210; 2238; 2254; 2268; 2284; 2308; 2348; 2364; 2382; 2400; 2413; 2429; 2445; 2462; 2478; 2491; 2509; 2525; 2543; 2556; 2592; 2606; 2632; 2653; 2669; 2693; 2710; 2723; 2764; 2778; 2791; 2809; 2847; 2862; 2880; 2921; 2945; 2965; 2983; 3004; 3027; 3059; 3074; 3096; 3114; 3127; 3148; 3165; 3178; 3191; 3207; 3220; 3250; 3265; 3290; 3308; 3321; 3336; 3360; 3374; 3398; 3423; 3439; 3477; 3493; 3532; 3546; 3560; 3588; 3604; 3618; 3632; 3661; 3674; 3695; 3704; 3726; 3756; 3772; 3790; 3820; 3843; 3867; 3891; 3910; 3938; 3964; 3980; 3993; 4016; 4030; 4050; 4063; 4077; 4096; 4110; 4123; 4139; 4154; 4167; 4183; 4198; 4214; 4239; 4258; 4274; 4287; 4300; 4318; 4332; 4346; 4362; 4384; 4400; 4419; 4441; 4457; 4480; 4499; 4513; 4529; 4543; 4563; 4579; 4592; 4614; 4647; 4661; 4681; 4694; 4708; 4762; 4775; 4798; 4811; 4830; 4847; 4874; 4910; 4943; 4962; 4987; 5008; 5035; 5048; 5065; 5079; 5094; 5110; 5170; 5195; 5211; 5233; 5246; 5260; 5291; 5305; 5330; 5348; 5363; 5376; 5395; 5408; 5423; 5452; 5471; 5489; 5514; 5529; 5548; 5564; 5583; 5601; 5617; 5631; 5650; 5677; 5700; 5722; 5741; 5756; 5769; 5786; 5806; 5833; 5846; 5865; 5890; 5913; 5927; 5940; 5957
MspJI	!NNNNNNNNNNNNNYNG	246	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; 676; 694; 717; 740; 770; 793; 817; 835; 852; 872; 893; 911; 942; 970; 987; 1005; 1027; 1049; 1075; 1099; 1117; 1149; 1166; 1187; 1204; 1230; 1255; 1273; 1297; 1318; 1336; 1365; 1387; 1406; 1426; 1447; 1470; 1492; 1511; 1529; 1549; 1585; 1604; 1622; 1639; 1662; 1687; 1726; 1759; 1796; 1819; 1860; 1879; 1900; 1970; 1995; 2018; 2075; 2117; 2142; 2183; 2208; 2248; 2282; 2306; 2331; 2352; 2394; 2411; 2431; 2452; 2469; 2487; 2508; 2530; 2559; 2585; 2606; 2627; 2652; 2696; 2738; 2821; 2856; 2883; 2906; 2935; 2979; 3001; 3033; 3069; 3086; 3107; 3144; 3164; 3181; 3198; 3233; 3251; 3269; 3286; 3310; 3332; 3359; 3387; 3413; 3451; 3472; 3489; 3507; 3530; 3551; 3579; 3602; 3623; 3641; 3662; 3679; 3702; 3726; 3746; 3764; 3786; 3817; 3839; 3865; 3884; 3901; 3929; 3948; 3967; 3985; 4003; 4024; 4046; 4070; 4103; 4123; 4141; 4162; 4188; 4215; 4232; 4249; 4266; 4292; 4314; 4336; 4354; 4374; 4393; 4415; 4453; 4473; 4497; 4517; 4537; 4564; 4588; 4621; 4640; 4668; 4690; 4719; 4747; 4772; 4791; 4810; 4831; 4848; 4865; 4896; 4923; 4943; 4966; 4986; 5023; 5040; 5059; 5085; 5105; 5144; 5171; 5190; 5208; 5245; 5263; 5304; 5322; 5348; 5365; 5397; 5426; 5454; 5475; 5498; 5517; 5538; 5556; 5573; 5591; 5617; 5638; 5658; 5678; 5696; 5717; 5743; 5760; 5779; 5798; 5827; 5846; 5864; 5883; 5901; 5919; 5942
MspR9I	CC!NGG	21	90; 283; 657; 658; 1351; 1453; 2409; 2514; 3522; 3577; 3594; 3990; 4150; 4373; 4763; 4952; 5055; 5527; 5745; 5758; 5879
MssI	GTTT!AAAC	0	
MunI	C!AATTG	2	1728; 2736
MvaI	CC!WGG	14	90; 283; 1453; 2409; 2514; 3522; 3577; 3594; 4373; 4952; 5055; 5745; 5758; 5879
MvaI269I	GAATGCN!	1	2737
MvaI269I	G!CATTC	1	2830
MvnI	CG!CG	19	60; 651; 1025; 1181; 1286; 1519; 2910; 3286; 3306; 3330; 3361; 4052; 4353; 4791; 4875; 4938; 5007; 5280; 5861
MvrI	CGAT!CG	0	



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MwoI	GCNNNNN!NNGC	36	90; 212; 244; 283; 376; 400; 692; 731; 776; 824; 1031; 1163; 1187; 1414; 1486; 1525; 2502; 3213; 3243; 3270; 3312; 3553; 3625; 3676; 3755; 3977; 4061; 4084; 4223; 4346; 4429; 4696; 4883; 5087; 5286; 5858
NaeI	GCC!GGC	5	1020; 1406; 3205; 4488; 4771
NarI	GG!CGCC	2	827; 3986
NciI	CC!SGG	7	657; 658; 1351; 3990; 4150; 4763; 5527
NcoI	C!CATGG	7	360; 677; 707; 1130; 1392; 3715; 4418
NdeI	CA!TATG	1	234
NdeII	!GATC	30	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1375; 1499; 1537; 1693; 2643; 3823; 3827; 3846; 4157; 4235; 4316; 4325; 4403; 4779; 4795; 5154; 5166; 5244; 5252; 5263; 5338
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	5	1018; 1404; 3203; 4486; 4769
NheI	G!CTAGC	1	591
NlaIII	CATG!	26	304; 364; 681; 711; 801; 1134; 1221; 1272; 1396; 1443; 1614; 2159; 2378; 3416; 3556; 3628; 3719; 3860; 4205; 4391; 4422; 4448; 4804; 5188; 5908; 5959
NlaIV	GGN!NCC	26	467; 647; 655; 662; 735; 780; 828; 891; 1053; 1265; 1539; 1568; 2569; 3141; 3162; 3174; 3365; 3526; 3598; 3987; 4022; 4870; 4949; 4994; 5837; 5876
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	5	750; 2463; 2818; 3133; 4725
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 844; 1027; 5797
Nii3877I	CYCGR!G	5	617; 660; 788; 1067; 1383
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3775; 4211
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	3740
NmeDI	RCCGGYNNNNNNNN!	10	678; 742; 1030; 1066; 1375; 1416; 3215; 4317; 4498; 4781
NmeDI	!NNNNNNNNNNNNRCCGGY	10	653; 717; 1005; 1041; 1350; 1391; 3190; 4292; 4473; 4756
NmuCI	!GTSAC	5	1471; 1520; 3275; 4106; 4412
NotI	GC!GGCCGC	1	1514
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4088
NsiI	ATGCA!T	3	3558; 3630; 5961
NspI	RCATG!Y	5	1221; 3556; 3628; 4391; 5908
NspV	TT!CGAA	2	627; 4668
OliI	CACNN!NNGTG	0	
PabI	GTA!C	13	220; 245; 300; 333; 384; 541; 648; 971; 1331; 1642; 1884; 2016; 4293
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3556; 3628; 4391
PaeR7I	C!TCGAG	2	613; 1379
PagI	T!CATGA	2	3412; 5184
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4951; 5054
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	3807
PciI	A!CATGT	1	5904
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	808; 4330; 4540
PcsI	WCGNNNN!NNNCGW	7	968; 4280; 4357; 4600; 4674; 5067; 5585
PctI	GAATGCN!	1	2737
PctI	G!CATTC	1	2830
PdiI	GCC!GGC	5	1020; 1406; 3205; 4488; 4771
PdmI	GAANN!NNTTC	1	916
PfeI	G!AWTC	6	2631; 4471; 4605; 4715; 4752; 5930
Pfl23II	C!GTACG	0	
PfIF1	GACN!NNGTC	1	4104
PfIMI	CCANNNN!NTGG	1	864
PfoI	T!CCNGGA	1	4761

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PhoI	GG!CC	30	84; 277; 655; 698; 794; 1018; 1022; 1265; 1516; 2361; 2436; 2517; 2618; 2952; 3094; 3749; 3755; 3764; 3807; 3894; 4068; 4459; 4486; 4995; 5052; 5085; 5430; 5864; 5882; 5893
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	2	1700; 4367
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	2236; 3932; 4187
PleI	GAGTCNNNN!	4	1566; 2356; 3037; 3469
PleI	!NNNNNGACTC	5	404; 598; 3045; 4651; 5528
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	3	861; 993; 1534
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	3	861; 993; 1534
PpiI	GAACNNNNNNCTCNNNNNNNNNNNNNNNNNNNNNN!	1	3068
PpiI	!NNNNNNNNNGAGNNNNNNGTTC	1	5198
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNNNNNNNNNN!	1	5230
PpiI	!NNNNNNNGAACNNNNNNCTC	1	3036
PpsI	GAGTCNNNN!	4	1566; 2356; 3037; 3469
PpsI	!NNNNNGACTC	5	404; 598; 3045; 4651; 5528
Ppu10I	A!TGCAT	3	3554; 3626; 5957
Ppu21I	YAC!GTR	6	340; 861; 993; 1534; 3102; 4290
PpuMI	RG!GWCCY	1	1567
PscI	A!CATGT	1	5904
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2769; 2974
Psp03I	GGWC!C	4	1470; 1570; 4505; 4950
Psp5II	RG!GWCCY	1	1567
Psp6I	!CCWGG	14	88; 281; 1451; 2407; 2512; 3520; 3575; 3592; 4371; 4950; 5053; 5743; 5756; 5877
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	3	861; 993; 1534
PspEI	G!GTNACC	0	
PspGI	!CCWGG	14	88; 281; 1451; 2407; 2512; 3520; 3575; 3592; 4371; 4950; 5053; 5743; 5756; 5877
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	26	467; 647; 655; 662; 735; 780; 828; 891; 1053; 1265; 1539; 1568; 2569; 3141; 3162; 3174; 3365; 3526; 3598; 3987; 4022; 4870; 4949; 4994; 5837; 5876
PspOMI	G!GGCCC	2	653; 1263
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	3	125; 3716; 4715
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	4118
PspPI	G!GNCC	17	83; 276; 654; 792; 1264; 1467; 1567; 2360; 2435; 2516; 2616; 3093; 4502; 4947; 4993; 5051; 5084
PspPPI	RG!GWCCY	1	1567
PspPRI	CCYCAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	5	917; 1262; 3539; 3611; 5117
PspPRI	!NNNNNNNNNNNNNNNNNNNNCTGRGG	3	2585; 3452; 4647
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	5	1266; 1570; 2363; 2619; 5087
PstI	CTGCA!G	3	638; 1256; 1482
PstNI	CAGNNN!CTG	3	2408; 5087; 5495
PsuI	R!GATCY	12	585; 609; 660; 1375; 1537; 4157; 4403; 4795; 5154; 5166; 5252; 5263
PsyI	GACN!NNGTC	1	4104
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	3484; 4092
RcaI	T!CATGA	2	3412; 5184
RceI	CATCGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	1	4501
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	1	1022
RleAI	CCCACANNNNNNNNNNNNN!	3	2416; 2535; 2715
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	2	998; 1091
RpaB5I	!NNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	13	219; 244; 299; 332; 383; 540; 647; 970; 1330; 1641; 1883; 2015; 4292
RsaNI	G!TAC	13	218; 243; 298; 331; 382; 539; 646; 969; 1329; 1640; 1882; 2014; 4291
RseI	CAYNN!NNRTG	4	365; 1678; 1982; 4423
RsrII	CG!GWCCG	1	4502
Rsr2I	CG!GWCCG	1	4502
SacI	GAGCT!C	1	620
SacII	CCGC!GG	1	652
SalI	G!TCGAC	1	639
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	808; 4330; 4540
SaqAI	T!TAA	28	7; 1604; 1745; 1795; 1803; 1844; 1853; 1955; 1990; 2005; 2057; 2077; 2203; 2562; 2687; 2748; 2869; 2890; 2901; 2913; 2924; 2941; 3039; 3310; 5129; 5143; 5148; 5200
SatI	GC!NGC	49	696; 723; 768; 795; 903; 942; 981; 988; 1023; 1101; 1155; 1188; 1284; 1415; 1435; 1481; 1514; 1517; 1529; 2286; 2476; 2763; 3282; 3304; 3318; 3756; 3895; 3947; 3958; 4048; 4053; 4090; 4131; 4218; 4221; 4224; 4460; 4556; 4597; 4611; 4725; 5064; 5079; 5290; 5496; 5499; 5564; 5707; 5862
Sau96I	G!GNCC	17	83; 276; 654; 792; 1264; 1467; 1567; 2360; 2435; 2516; 2616; 3093; 4502; 4947; 4993; 5051; 5084
Sau3AI	!GATC	30	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1375; 1499; 1537; 1693; 2643; 3823; 3827; 3846; 4157; 4235; 4316; 4325; 4403; 4779; 4795; 5154; 5166; 5244; 5252; 5263; 5338
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	1567; 2357; 3038; 3470
SchI	!NNNNNGACTC	5	404; 598; 3045; 4651; 5528
SciI	CTC!GAG	2	615; 1381
ScrFI	CC!NGG	21	90; 283; 657; 658; 1351; 1453; 2409; 2514; 3522; 3577; 3594; 3990; 4150; 4373; 4763; 4952; 5055; 5527; 5745; 5758; 5879
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	1479; 3564; 3636; 3805; 5747
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	4	1470; 2386; 4141; 4626
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNGTCCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	16	620; 657; 781; 820; 1054; 1121; 1267; 1452; 3177; 3932; 4025; 4099; 4289; 4351; 5061; 5594
SelI	!CGCG	19	58; 649; 1023; 1179; 1284; 1517; 2908; 3284; 3304; 3328; 3359; 4050; 4351; 4789; 4873; 4936; 5005; 5278; 5859
SetI	ASST!	75	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 761; 838; 851; 863; 895; 995; 1000; 1006; 1046; 1124; 1159; 1171; 1201; 1316; 1530; 1536; 2269; 2290; 2301; 2358; 2407; 2419; 2537; 2569; 2676; 2697; 2706; 2718; 2767; 2934; 3049; 3061; 3104; 3141; 3191; 3214; 3338; 3486; 3581; 3774; 3887; 4015; 4094; 4105; 4177; 4248; 4292; 4552; 4698; 4742; 5073; 5104; 5163; 5206; 5349; 5370; 5469; 5606; 5621; 5640; 5652; 5696; 5742; 5793
SexAI	A!CCWGGT	1	3575
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	11	734; 968; 1256; 1328; 1682; 2802; 3565; 3637; 4285; 4349; 4624

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SfaNI	!NNNNNNNNNGATGC	6	357; 1344; 3944; 4199; 4415; 5807
SfcI	C!TRYAG	7	634; 1194; 1252; 1478; 3321; 5448; 5639
SfiI	GGCCNNNN!NGGCC	1	3761
SfoI	GGC!GCC	2	828; 3987
Sfr274I	C!TCGAG	2	613; 1379
Sfr303I	CCGC!GG	1	652
SfuI	TT!CGAA	2	627; 4668
SgeI	CNNGNNNNNNNNN!	221	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 702; 715; 729; 743; 759; 772; 796; 810; 843; 861; 911; 933; 968; 984; 1003; 1026; 1053; 1067; 1086; 1101; 1125; 1143; 1159; 1175; 1188; 1215; 1230; 1256; 1272; 1297; 1323; 1344; 1362; 1376; 1391; 1405; 1432; 1452; 1465; 1489; 1508; 1530; 1544; 1564; 1584; 1623; 1648; 1703; 1763; 1891; 2045; 2144; 2168; 2210; 2308; 2348; 2365; 2387; 2420; 2433; 2478; 2509; 2525; 2548; 2611; 2632; 2653; 2693; 2722; 2764; 2847; 2921; 3005; 3027; 3059; 3096; 3114; 3133; 3148; 3190; 3207; 3224; 3259; 3273; 3290; 3312; 3336; 3360; 3425; 3439; 3477; 3493; 3533; 3546; 3565; 3588; 3605; 3618; 3637; 3667; 3688; 3705; 3728; 3763; 3790; 3821; 3843; 3869; 3891; 3910; 3938; 3974; 3993; 4016; 4030; 4050; 4063; 4077; 4096; 4110; 4129; 4161; 4175; 4188; 4214; 4245; 4258; 4275; 4292; 4306; 4323; 4341; 4356; 4384; 4400; 4419; 4441; 4457; 4480; 4499; 4524; 4543; 4563; 4590; 4614; 4647; 4666; 4694; 4708; 4774; 4798; 4813; 4836; 4857; 4874; 4922; 4949; 4963; 4992; 5016; 5049; 5066; 5086; 5099; 5112; 5170; 5197; 5216; 5246; 5271; 5291; 5305; 5330; 5348; 5385; 5423; 5452; 5480; 5494; 5514; 5529; 5550; 5564; 5583; 5601; 5617; 5657; 5677; 5704; 5722; 5743; 5756; 5769; 5786; 5810; 5833; 5865; 5890; 5917; 5939
SgeI	!NNNNNNNNNNNNNCNNG	195	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 676; 694; 717; 742; 770; 793; 817; 835; 885; 907; 942; 970; 1000; 1027; 1049; 1075; 1099; 1117; 1149; 1166; 1189; 1213; 1230; 1255; 1273; 1297; 1318; 1336; 1365; 1387; 1406; 1426; 1447; 1470; 1504; 1527; 1558; 1597; 1622; 1677; 1737; 1865; 2019; 2118; 2142; 2184; 2282; 2322; 2339; 2361; 2394; 2419; 2452; 2483; 2500; 2522; 2585; 2606; 2627; 2667; 2696; 2738; 2821; 2895; 2979; 3001; 3033; 3070; 3088; 3107; 3164; 3181; 3198; 3233; 3251; 3271; 3291; 3310; 3334; 3399; 3451; 3507; 3539; 3562; 3579; 3611; 3641; 3662; 3679; 3702; 3737; 3764; 3795; 3817; 3843; 3865; 3884; 3912; 3948; 3967; 3990; 4011; 4029; 4046; 4070; 4103; 4135; 4162; 4188; 4219; 4249; 4266; 4292; 4315; 4336; 4358; 4378; 4398; 4415; 4454; 4473; 4498; 4517; 4537; 4564; 4588; 4621; 4640; 4668; 4690; 4748; 4772; 4791; 4810; 4831; 4848; 4896; 4923; 4943; 4966; 4990; 5023; 5040; 5060; 5086; 5144; 5171; 5190; 5220; 5245; 5265; 5304; 5322; 5359; 5397; 5426; 5454; 5475; 5503; 5524; 5557; 5575; 5631; 5651; 5678; 5696; 5717; 5743; 5760; 5784; 5807; 5839; 5864; 5891; 5913; 5942
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	1	1404
SgrBI	CCGC!GG	1	652
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 3133; 4920; 5713
SimI	!GACCC	6	106; 1346; 1567; 4414; 4982; 5230
SinI	G!GWCC	4	1467; 1567; 4502; 4947
SlaI	C!TCGAG	2	613; 1379
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	365; 1678; 1982; 4423
SmlI	C!TYRAG	9	613; 619; 1379; 2620; 2868; 4377; 5259; 5536; 5798
SmoI	C!TYRAG	9	613; 619; 1379; 2620; 2868; 4377; 5259; 5536; 5798
SmuI	CCCGCNNNN!	12	93; 119; 286; 711; 964; 1171; 1409; 3308; 3663; 3684; 4880; 5012
SmuI	!NNNNNNGCGGG	7	644; 1453; 3239; 4109; 4646; 4784; 4931



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Tru9I	T!TAA	28	7; 1604; 1745; 1795; 1803; 1844; 1853; 1955; 1990; 2005; 2057; 2077; 2203; 2562; 2687; 2748; 2869; 2890; 2901; 2913; 2924; 2941; 3039; 3310; 5129; 5143; 5148; 5200
TscAI	CASTGNN!	8	1683; 2192; 2473; 2832; 4115; 5225; 5496; 5509
TseI	G!CWGC	21	987; 1100; 1154; 1434; 1480; 1528; 2285; 2475; 2762; 3281; 3946; 4047; 4089; 4130; 4223; 4610; 5063; 5289; 5495; 5498; 5563
TsoI	TARCCANNNNNNNNNNN!	2	2958; 3305
TsoI	!NNNNNNNNNTGGYTA	4	1591; 2493; 2763; 4515
Tsp45I	!GTSAC	5	1471; 1520; 3275; 4106; 4412
Tsp509I	!AATT	21	18; 629; 1728; 1746; 1777; 1956; 2038; 2052; 2192; 2247; 2454; 2553; 2736; 2800; 2878; 2904; 2915; 3562; 3634; 3726; 5144
TspDTI	ATGAANNNNNNNNNNN!	5	826; 2626; 2744; 4045; 4749
TspDTI	!NNNNNNNNNTTCAT	9	26; 1599; 1711; 1912; 2260; 2369; 4463; 4919; 5126
TspEI	!AATT	21	18; 629; 1728; 1746; 1777; 1956; 2038; 2052; 2192; 2247; 2454; 2553; 2736; 2800; 2878; 2904; 2915; 3562; 3634; 3726; 5144
TspGWI	ACGGANNNNNNNNNNN!	1	4861
TspGWI	!NNNNNNNNNTCCGT	1	1191
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	8	1683; 2192; 2473; 2832; 4115; 5225; 5496; 5509
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	2	703; 1888
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	2	735; 1920
TstI	!NNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	4104
Tth111II	CAARCANNNNNNNNNNN!	1	5313
Tth111III	!NNNNNNNNNTGYTTG	3	4421; 5281; 5320
UnbI	!GGNCC	17	82; 275; 653; 791; 1263; 1466; 1566; 2359; 2434; 2515; 2615; 3092; 4501; 4946; 4992; 5050; 5083
Van91I	CCANNNN!NTGG	1	864
Vha464I	C!TTAAG	1	2868
VneI	G!TGCAC	1	5590
VpaK11AI	!GGWCC	4	1466; 1566; 4501; 4946
VpaK11BI	G!GWCC	4	1467; 1567; 4502; 4947
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	5	629; 2454; 2800; 2904; 2915
XbaI	T!CTAGA	1	2640
XceI	RCATG!Y	5	1221; 3556; 3628; 4391; 5908
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	2	613; 1379
XhoII	R!GATCY	12	585; 609; 660; 1375; 1537; 4157; 4403; 4795; 5154; 5166; 5252; 5263
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	3808; 4823
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	1	916
XspI	C!TAG	11	592; 1496; 1879; 2357; 2641; 2835; 3253; 3809; 4824; 5158; 5411
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3558; 3630; 5961