

pTurboGFP-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	1519; 1724
AarI	CACCTGCNNNN!	1	1130
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1807; 2763; 4552
AatI	AGG!CCT	1	2557
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; 1385; 1660; 2036; 2056; 2080; 2111; 2802; 3103; 3541; 3625; 3688; 3757; 4030; 4611
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2838
Acc36I	ACCTGCNNNN!	4	857; 1130; 3004; 3454
Acc36I	!NNNNNNNNGCAGGT	1	2623
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	10	465; 645; 733; 778; 826; 889; 1051; 1889; 2735; 2770
AccB7I	CCANNNN!NTGG	1	864
AccBSI	CCG!CTC	2	2160; 3349
AccBSI	GAG!CGG	3	695; 1996; 3403
AceIII	CAGCTCNNNNNNN!	2	1209; 1692
AceIII	!NNNNNNNNNNGAGCTG	3	552; 745; 1300
AciI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 649; 704; 723; 795; 957; 1008; 1023; 1098; 1164; 1281; 1284; 1383; 2051; 2054; 2068; 2158; 2406; 2418; 2427; 2439; 2449; 2460; 2506; 2645; 2708; 3210; 3255; 3321; 3347; 3472; 3475; 3623; 3755; 4062; 4206; 4702
AciI	G!CGG	32	370; 403; 528; 651; 695; 767; 770; 902; 941; 980; 1187; 1379; 1996; 2023; 2111; 2221; 2802; 2866; 2967; 2970; 3250; 3305; 3403; 3541; 3688; 3828; 4071; 4316; 4437; 4456; 4583; 4611
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	668; 1304; 2604; 2915; 3161; 3553; 3912; 4010; 4096
AclWI	!NNNNNGATCC	6	580; 655; 2980; 3524; 3911; 4008
AcoI	Y!GGCCR	6	1020; 1380; 2642; 2816; 3207; 3234
AcsI	R!AATY	4	629; 1550; 1654; 1665
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	2	2882; 3314
AcuI	!NNNNNNNNNNNNNNCTTCAG	4	822; 984; 1155; 4112
AcvI	CAC!GTG	2	861; 993
AcyI	GR!CGYC	8	122; 175; 258; 444; 827; 2736; 3438; 3517
AdeI	CACNNN!GTG	1	1852
AfaI	GT!AC	10	219; 244; 299; 332; 383; 540; 647; 970; 1330; 3042
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	20	49; 789; 864; 1014; 1287; 1748; 2074; 2466; 2717; 3261; 3542; 3574; 3706; 3741; 3791; 3823; 4176; 4455; 4621; 4639
AfII	C!TTAAG	1	1618
AfIII	A!CRYGT	1	4654
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	8	1041; 1227; 1344; 2147; 2191; 2201; 2614; 4190
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	11	88; 281; 2270; 2325; 2342; 3121; 3700; 3803; 4493; 4506; 4627
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	0	
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2310; 2382
AlfI	!NNNNNNNNNNNGCANNNNNNNTGC	2	2276; 2348
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1818
AloI	!NNNNNNNNGGANNNNNNNGTTC	0	
AloI	GGANNNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1786
AluI	AG!CT	20	566; 618; 624; 759; 998; 1004; 1157; 1199; 1314; 1515; 1682; 1939; 2234; 2522; 2842; 3300; 4097; 4354; 4400; 4490
AluBI	AG!CT	20	566; 618; 624; 759; 998; 1004; 1157; 1199; 1314; 1515; 1682; 1939; 2234; 2522; 2842; 3300; 4097; 4354; 4400; 4490
AlwI	GGATCNNNN!	9	668; 1304; 2604; 2915; 3161; 3553; 3912; 4010; 4096
AlwI	!NNNNNGATCC	6	580; 655; 2980; 3524; 3911; 4008
Alw21I	GWGCW!C	6	620; 820; 1121; 2849; 3039; 4344
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	4	2160; 2578; 3597; 3725
Alw44I	G!TGCAC	1	4340
AlwNI	CAGNN!CTG	2	3837; 4245
Ama87I	C!YCGRG	4	613; 656; 784; 1063
Aor13HI	T!CCGGA	0	
Aor51HI	AG!GCT	1	596
ApaI	GGGCC!C	2	657; 1267
ApaBI	GCANNNNN!TGC	3	2304; 2376; 3838
ApaLI	G!TGCAC	1	4340
ApeKI	G!CWGC	16	987; 1100; 1154; 1512; 2031; 2696; 2797; 2839; 2880; 2973; 3360; 3813; 4039; 4245; 4248; 4313
ApoI	R!AATTY	4	629; 1550; 1654; 1665
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3251
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	3045; 3698; 4536
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3135
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	1316; 2564
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	2	1041; 3306
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	26	586; 610; 661; 714; 1029; 1077; 1092; 1144; 1297; 1394; 2574; 2578; 2597; 2908; 2986; 3067; 3076; 3154; 3530; 3546; 3905; 3917; 3995; 4003; 4014; 4089
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2854
Asp700I	GAANN!NNTTC	1	916
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	2558; 3573
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	24	597; 829; 1181; 1234; 2002; 2010; 2036; 2058; 2067; 2080; 2111; 2730; 2738; 2802; 2839; 3105; 3365; 3541; 3627; 4030; 4139; 4313; 4413; 4480
AspS9I	G!GNCC	11	83; 276; 654; 792; 1264; 1843; 3252; 3697; 3743; 3801; 3834
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 3418
AsuC2I	CC!SGG	7	657; 658; 1351; 2740; 2900; 3513; 4277
AsuHPI	GGTGANNNNNNNN!	5	376; 1056; 1378; 3807; 3923
AsuHPI	!NNNNNNNTCACC	5	720; 1074; 1152; 1853; 2914
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	613; 656; 784; 1063
AvaII	G!GWCC	2	3252; 3697
AviII	TGC!GCA	1	2838
AvrII	C!CTAGG	2	2558; 3573
AxyI	CC!TNAGG	2	2216; 3848

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BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI:C	7	657; 781; 1054; 1267; 2682; 2775; 4344
BalI	TGG!CCA	1	2818
BamHI	G!GATCC	1	660
BanI	G!GYRCC	10	465; 645; 733; 778; 826; 889; 1051; 1889; 2735; 2770
BanII	GRGCY!C	6	620; 657; 1267; 1927; 3101; 3811
BanIII	AT!CGAT	1	2576
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	864
BauI	C!ACGAG	2	3454; 4481
BauI	C!TCGTG	1	3328
BbeI	GGCGC!C	2	830; 2739
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	2	861; 993
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2306; 2378; 3141
BbvI	GCAGCNNNNNN!	8	1112; 1166; 1524; 2809; 2851; 3372; 3825; 4325
BbvI	!NNNNNNNNNNNGCTGC	7	974; 2018; 2683; 2867; 2960; 4026; 4232
Bbv12I	GWGCW!C	6	620; 820; 1121; 2849; 3039; 4344
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	937; 1243; 1866; 2430; 2956; 3458
BccI	!NNNNNGATGG	6	858; 1041; 1144; 1834; 2614; 3042
BceAI	ACGGCNNNNNNNNNN!	7	759; 888; 954; 993; 1200; 3162; 3649
BceAI	!NNNNNNNNNNNGCCGT	3	1877; 2695; 4154
Bcefl	ACGGCNNNNNNNNNN!	7	759; 888; 954; 993; 1200; 3162; 3649
Bcefl	!NNNNNNNNNNNGCCGT	3	1878; 2696; 4155
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	2165; 2955; 4456
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	7	657; 658; 1351; 2740; 2900; 3513; 4277
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	4589
BdaI	!NNNNNNNNNTGANNNNNTCA	1	4555
BfaI	C!TAG	8	592; 1391; 1585; 2003; 2559; 3574; 3908; 4161
BfiI	ACTGGGNNNN!	1	2685
BfiI	!NNNCCCAGT	2	289; 2437
BfmI	C!TRYAG	6	634; 1194; 1252; 2071; 4198; 4389
BfoI	RGCGC!Y	7	598; 830; 1235; 2003; 2011; 2739; 4414
BfrI	C!TTAAG	1	1618
BfuI	GTATCCNNNNN!	3	2165; 2955; 4456
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	857; 1130; 3004; 3454
BfuAI	!NNNNNNNGCAGGT	1	2623
BfuCI	!GATC	26	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1393; 2573; 2577; 2596; 2907; 2985; 3066; 3075; 3153; 3529; 3545; 3904; 3916; 3994; 4002; 4013; 4088
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2511
BglII	A!GATCT	1	609

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BisI	GC!NGC	43	696; 723; 768; 795; 903; 942; 981; 988; 1023; 1101; 1155; 1188; 1284; 1380; 1383; 1513; 2032; 2054; 2068; 2506; 2645; 2697; 2708; 2798; 2803; 2840; 2881; 2968; 2971; 2974; 3210; 3306; 3347; 3361; 3475; 3814; 3829; 4040; 4246; 4249; 4314; 4457; 4612
BlnI	C!CTAGG	2	2558; 3573
BlpI	GC!TNAGC	1	853
BlsI	GCN!GC	43	697; 724; 769; 796; 904; 943; 982; 989; 1024; 1102; 1156; 1189; 1285; 1381; 1384; 1514; 2033; 2055; 2069; 2507; 2646; 2698; 2709; 2799; 2804; 2841; 2882; 2969; 2972; 2975; 3211; 3307; 3348; 3362; 3476; 3815; 3830; 4041; 4247; 4250; 4315; 4458; 4613
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	3252; 3697
Bme1390I	CC!NGG	18	90; 283; 657; 658; 1351; 2272; 2327; 2344; 2740; 2900; 3123; 3513; 3702; 3805; 4277; 4495; 4508; 4629
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	613; 656; 784; 1063
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	84; 277; 655; 793; 1265; 1844; 3253; 3698; 3744; 3802; 3835
BmiI	GGN!NCC	23	467; 647; 655; 662; 735; 780; 828; 891; 1053; 1265; 1891; 1912; 1924; 2115; 2276; 2348; 2737; 2772; 3620; 3699; 3744; 4587; 4626
BmrI	ACTGGGNNNNN!	1	2685
BmrI	!NNNNCCCAGT	2	289; 2437
BmrFI	CC!NGG	18	90; 283; 657; 658; 1351; 2272; 2327; 2344; 2740; 2900; 3123; 3513; 3702; 3805; 4277; 4495; 4508; 4629
BmsI	GCATCNNNNN!	10	734; 968; 1256; 1328; 1552; 2315; 2387; 3035; 3099; 3374
BmsI	!NNNNNNNNNGATGC	6	357; 1344; 2694; 2949; 3165; 4557
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2685
BmuI	!NNNNCCCAGT	2	289; 2437
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2525; 3424
BpI	!NNNNNNNNGAGNNNNNCTC	2	2493; 3392
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3576
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	3519
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 3418
Bpu1102I	GC!TNAGC	1	853
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4030; 4569
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	604; 3112; 4271
BpuMI	CC!SGG	7	657; 658; 1351; 2740; 2900; 3513; 4277
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3725
Bsa29I	AT!CGAT	1	2576
BsaAI	YAC!GTR	5	340; 861; 993; 1852; 3040
BsaBI	GATNN!NNATC	3	1142; 1398; 2595
BsaHI	GR!CGYC	8	122; 175; 258; 444; 827; 2736; 3438; 3517
BsaJI	C!CNNGG	24	360; 649; 656; 677; 707; 1064; 1112; 1130; 1202; 1349; 2270; 2342; 2465; 2500; 2509; 2558; 2899; 3168; 3573; 3700; 3701; 3803; 3804; 4494
BsaMI	GAATGCN!	1	1487
BsaMI	G!CATTC	1	1580
BsaWI	W!CCGGW	6	600; 666; 2767; 3611; 4301; 4448
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	1213; 1816
BsaXI	!NNNNNNNNGGAGNNNNNNGT	1	703
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	1	733
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	1183; 1786

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	2	977; 1331
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	1737; 3644
Bsc4I	CCNNNNN!NNGG	20	49; 789; 864; 1014; 1287; 1748; 2074; 2466; 2717; 3261; 3542; 3574; 3706; 3741; 3791; 3823; 4176; 4455; 4621; 4639
BscAI	GCATCNNNN!	10	733; 967; 1255; 1327; 1551; 2314; 2386; 3034; 3098; 3373
BscAI	!NNNNNNGATGC	6	360; 1347; 2697; 2952; 3168; 4560
Bse1I	ACTGGN!	3	2680; 2881; 4127
Bse1I	C!CAGT	5	295; 1765; 2443; 4239; 4252
Bse8I	GATNN!NNATC	3	1142; 1398; 2595
Bse21I	CC!TNAGG	2	2216; 3848
Bse118I	R!CCGGY	9	666; 730; 1018; 1054; 1363; 1953; 3055; 3236; 3519
BseAI	T!CCGGA	0	
BseBI	CC!WGG	11	90; 283; 2272; 2327; 2344; 3123; 3702; 3805; 4495; 4508; 4629
BseCI	AT!CGAT	1	2576
BseDI	C!CNNGG	24	360; 649; 656; 677; 707; 1064; 1112; 1130; 1202; 1349; 2270; 2342; 2465; 2500; 2509; 2558; 2899; 3168; 3573; 3700; 3701; 3803; 3804; 4494
Bse3DI	GCAATGNN!	1	2969
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	6	1155; 1359; 2596; 3053; 3078; 3532
BseGI	!CATCC	4	1094; 1235; 1247; 2422
BseJI	GATNN!NNATC	3	1142; 1398; 2595
BseLI	CCNNNNN!NNGG	20	49; 789; 864; 1014; 1287; 1748; 2074; 2466; 2717; 3261; 3542; 3574; 3706; 3741; 3791; 3823; 4176; 4455; 4621; 4639
BseMI	GCAATGNN!	1	2969
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	620; 3862
BseMII	!NNNNNNNNNCTGAG	6	844; 2207; 2509; 3390; 3962; 4371
BseNI	ACTGGN!	3	2680; 2881; 4127
BseNI	C!CAGT	5	295; 1765; 2443; 4239; 4252
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1306; 2554
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGCMLC	7	657; 781; 1054; 1267; 2682; 2775; 4344
BseXI	GCAGCNNNNNNNN!	8	1112; 1166; 1524; 2809; 2851; 3372; 3825; 4325
BseXI	!NNNNNNNNNNNGCTGC	7	974; 2018; 2683; 2867; 2960; 4026; 4232
BseX3I	C!GGCCG	3	1020; 1380; 2642
BseYI	C!CCAGC	5	898; 1243; 2279; 2351; 4350
BseYI	G!CTGGG	2	1314; 3240
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	3	907; 973; 1108
Bsh1236I	CG!CG	19	60; 651; 1025; 1181; 1286; 1385; 1660; 2036; 2056; 2080; 2111; 2802; 3103; 3541; 3625; 3688; 3757; 4030; 4611
Bsh1285I	CGRY!CG	5	671; 1023; 1383; 2645; 4320
BshFI	GG!CC	26	84; 277; 655; 698; 794; 1018; 1022; 1265; 1382; 1702; 1844; 2499; 2505; 2514; 2557; 2644; 2818; 3209; 3236; 3745; 3802; 3835; 4180; 4614; 4632; 4643
BshNI	G!GYRCC	10	465; 645; 733; 778; 826; 889; 1051; 1889; 2735; 2770
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	2576
BsiEI	CGRY!CG	5	671; 1023; 1383; 2645; 4320
BsiHKAI	GWGCW!C	6	620; 820; 1121; 2849; 3039; 4344
BsiHKCI	C!YCGRG	4	613; 656; 784; 1063
BsiSI	C!CGG	24	601; 657; 667; 731; 1019; 1055; 1351; 1364; 1954; 2641; 2718; 2740; 2768; 2899; 2989; 3056; 3237; 3512; 3520; 3612; 4086; 4276; 4302; 4449
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	20	49; 789; 864; 1014; 1287; 1748; 2074; 2466; 2717; 3261; 3542; 3574; 3706; 3741; 3791; 3823; 4176; 4455; 4621; 4639
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2887; 3419; 3528
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2252; 2324; 2388; 3683
BsmI	GAATGCN!	1	1487
BsmI	G!CATTC	1	1580
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	4	2160; 2578; 3597; 3725
BsmBI	CGTCTCN!	0	

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BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2887; 3419; 3528
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2252; 2324; 2388; 3683
BsnI	GG!CC	26	84; 277; 655; 698; 794; 1018; 1022; 1265; 1382; 1702; 1844; 2499; 2505; 2514; 2557; 2644; 2818; 3209; 3236; 3745; 3802; 3835; 4180; 4614; 4632; 4643
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACG	1	3725
BsoBI	C!YCGRG	4	613; 656; 784; 1063
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	6	360; 677; 707; 1130; 2465; 3168
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3539
Bsp24I	!NNNNNNCCANNNNNGTC	2	3960; 4138
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	3992; 4170
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3507
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 3418
Bsp120I	G!GGCCC	2	653; 1263
Bsp143I	!GATC	26	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1393; 2573; 2577; 2596; 2907; 2985; 3066; 3075; 3153; 3529; 3545; 3904; 3916; 3994; 4002; 4013; 4088
Bsp1286I	GDGCH!C	15	620; 657; 781; 820; 1054; 1121; 1267; 1927; 2682; 2775; 2849; 3039; 3101; 3811; 4344
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	1	853
BspACI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 649; 704; 723; 795; 957; 1008; 1023; 1098; 1164; 1281; 1284; 1383; 2051; 2054; 2068; 2158; 2406; 2418; 2427; 2439; 2449; 2460; 2506; 2645; 2708; 3210; 3255; 3321; 3347; 3472; 3475; 3623; 3755; 4062; 4206; 4702
BspACI	G!CGG	32	370; 403; 528; 651; 695; 767; 770; 902; 941; 980; 1187; 1379; 1996; 2023; 2111; 2221; 2802; 2866; 2967; 2970; 3250; 3305; 3403; 3541; 3688; 3828; 4071; 4316; 4437; 4456; 4583; 4611
BspCNI	CTCAGNNNNNNNN!	2	619; 3861
BspCNI	!NNNNNNNCTGAG	6	845; 2208; 2510; 3391; 3963; 4372
BspDI	AT!CGAT	1	2576
BspD6I	GACTCNNNN!	6	418; 612; 1395; 1809; 3415; 4292
BspD6I	!NNNNNGAGTC	2	1772; 2204
BspEI	T!CCGGA	0	
BspFNI	CG!CG	19	60; 651; 1025; 1181; 1286; 1385; 1660; 2036; 2056; 2080; 2111; 2802; 3103; 3541; 3625; 3688; 3757; 4030; 4611
BspHI	T!CATGA	2	2162; 3934
BspLI	GGN!NCC	23	467; 647; 655; 662; 735; 780; 828; 891; 1053; 1265; 1891; 1912; 1924; 2115; 2276; 2348; 2737; 2772; 3620; 3699; 3744; 4587; 4626
BspMI	ACCTGCNNNN!	4	857; 1130; 3004; 3454
BspMI	!NNNNNNNGCAGGT	1	2623
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	668; 1304; 2604; 2915; 3161; 3553; 3912; 4010; 4096
BspPI	!NNNNNGATCC	6	580; 655; 2980; 3524; 3911; 4008
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	3	808; 3080; 3290
BspTI	C!TTAAG	1	1618
BspT104I	TT!CGAA	2	627; 3418
BspT107I	G!GYRCC	10	465; 645; 733; 778; 826; 889; 1051; 1889; 2735; 2770
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACG	1	3725
BsrI	ACTGGN!	3	2680; 2881; 4127
BsrI	C!CAGT	5	295; 1765; 2443; 4239; 4252
BsrBI	CCG!CTC	2	2160; 3349
BsrBI	GAG!CGG	3	695; 1996; 3403
BsrDI	GCAATGNN!	1	2969
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	9	666; 730; 1018; 1054; 1363; 1953; 3055; 3236; 3519
BsrGI	T!GTACA	0	
BsrSI	ACTGGN!	3	2680; 2881; 4127

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	C!CAGT	5	295; 1765; 2443; 4239; 4252
BssAI	R!CCGGY	9	666; 730; 1018; 1054; 1363; 1953; 3055; 3236; 3519
BssECI	C!CNNGG	24	360; 649; 656; 677; 707; 1064; 1112; 1130; 1202; 1349; 2270; 2342; 2465; 2500; 2509; 2558; 2899; 3168; 3573; 3700; 3701; 3803; 3804; 4494
BssHII	G!CGCGC	0	
BssKI	!CCNGG	18	88; 281; 655; 656; 1349; 2270; 2325; 2342; 2738; 2898; 3121; 3511; 3700; 3803; 4275; 4493; 4506; 4627
BssMI	!GATC	26	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1393; 2573; 2577; 2596; 2907; 2985; 3066; 3075; 3153; 3529; 3545; 3904; 3916; 3994; 4002; 4013; 4088
BssNI	GR!CGYC	8	122; 175; 258; 444; 827; 2736; 3438; 3517
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3454; 4481
BssSI	C!TCGTG	1	3328
BssT1I	C!CWWGG	8	360; 677; 707; 1130; 2465; 2558; 3168; 3573
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	808; 2203; 3080; 3290
Bst98I	C!TTAAG	1	1618
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 827; 2736; 3438; 3517
BstAFI	C!TTAAG	1	1618
BstAPI	GCANNNN!NTGC	3	2303; 2375; 3837
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	2	627; 3418
Bst2BI	C!ACGAG	2	3454; 4481
Bst2BI	C!TCGTG	1	3328
BstBAI	YAC!GTR	5	340; 861; 993; 1852; 3040
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 645; 1113; 1827; 3116; 3232; 3340; 3663; 4154; 4624; 4695
BstC8I	GCN!NGC	34	86; 279; 593; 653; 704; 926; 985; 1020; 1177; 1337; 1955; 1998; 2012; 2285; 2304; 2357; 2376; 2630; 2816; 3035; 3101; 3107; 3139; 3180; 3184; 3238; 3521; 3708; 3755; 3811; 3833; 4044; 4604; 4641
BstDEI	C!TNAG	8	606; 853; 2216; 2518; 3399; 3848; 3971; 4380
BstDSI	C!CRYGG	9	360; 649; 677; 707; 1112; 1130; 1202; 2465; 3168
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	6	1155; 1359; 2596; 3053; 3078; 3532
BstF5I	!CATCC	4	1094; 1235; 1247; 2422
BstFNI	CG!CG	19	60; 651; 1025; 1181; 1286; 1385; 1660; 2036; 2056; 2080; 2111; 2802; 3103; 3541; 3625; 3688; 3757; 4030; 4611
BstH2I	RGCGC!Y	7	598; 830; 1235; 2003; 2011; 2739; 4414
BstHHI	GCG!C	24	597; 829; 1181; 1234; 2002; 2010; 2036; 2058; 2067; 2080; 2111; 2730; 2738; 2802; 2839; 3105; 3365; 3541; 3627; 4030; 4139; 4313; 4413; 4480
BstKTI	GAT!C	26	588; 612; 663; 716; 1031; 1079; 1094; 1146; 1299; 1396; 2576; 2580; 2599; 2910; 2988; 3069; 3078; 3156; 3532; 3548; 3907; 3919; 3997; 4005; 4016; 4091
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	4	2160; 2578; 3597; 3725
BstMBI	!GATC	26	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1393; 2573; 2577; 2596; 2907; 2985; 3066; 3075; 3153; 3529; 3545; 3904; 3916; 3994; 4002; 4013; 4088
BstMCI	CGRY!CG	5	671; 1023; 1383; 2645; 4320
BstMWI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 692; 731; 776; 824; 1031; 1163; 1187; 1963; 1993; 2020; 2062; 2303; 2375; 2426; 2505; 2727; 2811; 2834; 2973; 3096; 3179; 3446; 3633; 3837; 4036; 4608
BstNI	CC!WGG	11	90; 283; 2272; 2327; 2344; 3123; 3702; 3805; 4495; 4508; 4629
BstNSI	RCATG!Y	5	1221; 2306; 2378; 3141; 4658
BstOI	CC!WGG	11	90; 283; 2272; 2327; 2344; 3123; 3702; 3805; 4495; 4508; 4629
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	18	88; 281; 655; 656; 1349; 2270; 2325; 2342; 2738; 2898; 3121; 3511; 3700; 3803; 4275; 4493; 4506; 4627
BstSFI	C!TRYAG	6	634; 1194; 1252; 2071; 4198; 4389
BstSLI	GKGC!C	7	657; 781; 1054; 1267; 2682; 2775; 4344

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 651; 1025; 1181; 1286; 1385; 1660; 2036; 2056; 2080; 2111; 2802; 3103; 3541; 3625; 3688; 3757; 4030; 4611
Bst2UI	CC!WGG	11	90; 283; 2272; 2327; 2344; 3123; 3702; 3805; 4495; 4508; 4629
BstV1I	GCAGCNNNNNNNN!	8	1112; 1166; 1524; 2809; 2851; 3372; 3825; 4325
BstV1I	!NNNNNNNNNNNGCTGC	7	974; 2018; 2683; 2867; 2960; 4026; 4232
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	10	585; 609; 660; 2907; 3153; 3545; 3904; 3916; 4002; 4013
BstYI	R!GATCY	10	585; 609; 660; 2907; 3153; 3545; 3904; 3916; 4002; 4013
BstZI	C!GGCCG	3	1020; 1380; 2642
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2165; 2955; 4456
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2576
Bsu36I	CC!TNAGG	2	2216; 3848
BsuRI	GG!CC	26	84; 277; 655; 698; 794; 1018; 1022; 1265; 1382; 1702; 1844; 2499; 2505; 2514; 2557; 2644; 2818; 3209; 3236; 3745; 3802; 3835; 4180; 4614; 4632; 4643
BsuTUI	AT!CGAT	1	2576
BtgI	C!CRYGG	9	360; 649; 677; 707; 1112; 1130; 1202; 2465; 3168
BtgZI	GCGATGNNNNNNNNNN!	2	1853; 3188
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3007; 3351
BthCI	GCNG!C	43	698; 725; 770; 797; 905; 944; 983; 990; 1025; 1103; 1157; 1190; 1286; 1382; 1385; 1515; 2034; 2056; 2070; 2508; 2647; 2699; 2710; 2800; 2805; 2842; 2883; 2970; 2973; 2976; 3212; 3308; 3349; 3363; 3477; 3816; 3831; 4042; 4248; 4251; 4316; 4459; 4614
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1575
BtsCI	GGATGNN!	6	1155; 1359; 2596; 3053; 3078; 3532
BtsCI	!CATCC	4	1094; 1235; 1247; 2422
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	857; 1130; 3004; 3454
BveI	!NNNNNNNNNGCAGGT	1	2623
Cac8I	GCN!NGC	34	86; 279; 593; 653; 704; 926; 985; 1020; 1177; 1337; 1955; 1998; 2012; 2285; 2304; 2357; 2376; 2630; 2816; 3035; 3101; 3107; 3139; 3180; 3184; 3238; 3521; 3708; 3755; 3811; 3833; 4044; 4604; 4641
CaiI	CAGNNN!CTG	2	3837; 4245
CciI	T!CATGA	2	2162; 3934
CciNI	GC!GGCCGC	1	1380
CdiI	CATC!G	7	352; 963; 1323; 3025; 3030; 3228; 3369
CdiI	C!GATG	2	1839; 3174
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	2	795; 4608
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2397; 2439
CelII	GC!TNAGC	1	853
CfoI	GCG!C	24	597; 829; 1181; 1234; 2002; 2010; 2036; 2058; 2067; 2080; 2111; 2730; 2738; 2802; 2839; 3105; 3365; 3541; 3627; 4030; 4139; 4313; 4413; 4480
CfrI	Y!GGCCR	6	1020; 1380; 2642; 2816; 3207; 3234
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	9	666; 730; 1018; 1054; 1363; 1953; 3055; 3236; 3519
Cfr13I	G!GNCC	11	83; 276; 654; 792; 1264; 1843; 3252; 3697; 3743; 3801; 3834
Cfr42I	CCGC!GG	1	652
ChaI	GATC!	26	589; 613; 664; 717; 1032; 1080; 1095; 1147; 1300; 1397; 2577; 2581; 2600; 2911; 2989; 3070; 3079; 3157; 3533; 3549; 3908; 3920; 3998; 4006; 4017; 4092
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	2553; 3993; 4093; 4171
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2220; 2315; 3507; 4057; 4612
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2254; 2349; 3541; 4091; 4646
CjeI	!NNNNNNNNCCANNNNNNNGT	4	2519; 3959; 4059; 4137
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	3993; 4171

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 3507; 4106
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	3	290; 3540; 4139
CjePI	!NNNNNNNCCANNNNNNNTC	2	3960; 4138
Clal	AT!CGAT	1	2576
CpoI	CG!GWCCG	1	3252
CseI	GACGCNNNNN!	3	526; 3446; 3525
CseI	!NNNNNNNNGCGTC	3	2069; 3964; 4542
CsiI	A!CCWGGT	1	2325
CspI	CG!GWCCG	1	3252
Csp6I	G!TAC	10	218; 243; 298; 331; 382; 539; 646; 969; 1329; 3041
Csp45I	TT!CGAA	2	627; 3418
CspAI	A!CCGGT	1	666
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	2016; 3625
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	21	301; 361; 678; 708; 798; 1131; 1218; 1269; 2163; 2303; 2375; 2466; 2607; 2952; 3138; 3169; 3195; 3551; 3935; 4655; 4706
CviJI	RG!CY	96	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; 1382; 1405; 1515; 1682; 1702; 1844; 1925; 1939; 1953; 2234; 2275; 2347; 2470; 2499; 2505; 2514; 2522; 2545; 2557; 2563; 2644; 2661; 2669; 2696; 2721; 2805; 2814; 2818; 2842; 2880; 2956; 2973; 2992; 3055; 3099; 3109; 3126; 3209; 3236; 3240; 3277; 3300; 3316; 3496; 3523; 3584; 3706; 3745; 3802; 3809; 3816; 3835; 3846; 4097; 4126; 4169; 4180; 4245; 4324; 4349; 4354; 4400; 4490; 4588; 4614; 4632; 4643
CviKI-1	RG!CY	96	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; 1382; 1405; 1515; 1682; 1702; 1844; 1925; 1939; 1953; 2234; 2275; 2347; 2470; 2499; 2505; 2514; 2522; 2545; 2557; 2563; 2644; 2661; 2669; 2696; 2721; 2805; 2814; 2818; 2842; 2880; 2956; 2973; 2992; 3055; 3099; 3109; 3126; 3209; 3236; 3240; 3277; 3300; 3316; 3496; 3523; 3584; 3706; 3745; 3802; 3809; 3816; 3835; 3846; 4097; 4126; 4169; 4180; 4245; 4324; 4349; 4354; 4400; 4490; 4588; 4614; 4632; 4643
CviQI	G!TAC	10	218; 243; 298; 331; 382; 539; 646; 969; 1329; 3041
DdeI	C!TNAG	8	606; 853; 2216; 2518; 3399; 3848; 3971; 4380
DinI	GGC!GCC	2	828; 2737
DpnI	GA!TC	26	587; 611; 662; 715; 1030; 1078; 1093; 1145; 1298; 1395; 2575; 2579; 2598; 2909; 2987; 3068; 3077; 3155; 3531; 3547; 3906; 3918; 3996; 4004; 4015; 4090
DpnII	!GATC	26	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1393; 2573; 2577; 2596; 2907; 2985; 3066; 3075; 3153; 3529; 3545; 3904; 3916; 3994; 4002; 4013; 4088
DraI	TTT!AAA	3	1438; 3880; 3899
DraII	RG!GNCCY	2	1263; 3834
DraIII	CACNN!GTG	1	1852
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	266; 4216
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	1807; 2763; 4552
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1807; 2763; 4552
EaeI	Y!GGCCR	6	1020; 1380; 2642; 2816; 3207; 3234
EagI	C!GGCCG	3	1020; 1380; 2642
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	808; 2203; 3080; 3290
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	4	808; 2203; 3080; 3290
EciI	GGCGGANNNNNNNNNNNN!	5	785; 2236; 3265; 4452; 4598
EciI	!NNNNNNNNNTCCGCC	5	496; 1270; 2407; 2428; 2449

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; 1380; 2642
Eco24I	GRGCI!C	6	620; 657; 1267; 1927; 3101; 3811
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	3725
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3252; 3697
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	3	1020; 1380; 2642
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	2	2882; 3314
Eco57I	!NNNNNNNNNNNNNNCTTCAG	4	822; 984; 1155; 4112
Eco72I	CAC!GTG	2	861; 993
Eco81I	CC!TNAGG	2	2216; 3848
Eco88I	C!YCGRG	4	613; 656; 784; 1063
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	8	360; 677; 707; 1130; 2465; 2558; 3168; 3573
Eco147I	AGG!CCT	1	2557
EcoHI	!CCSGG	7	655; 656; 1349; 2738; 2898; 3511; 4275
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	3	2882; 3314; 3576
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	822; 984; 1155; 3519; 4112
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	1263; 3834
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	11	88; 281; 2270; 2325; 2342; 3121; 3700; 3803; 4493; 4506; 4627
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	8	360; 677; 707; 1130; 2465; 2558; 3168; 3573
EcoT22I	ATGCA!T	3	2308; 2380; 4711
EcoT38I	GRGCI!C	6	620; 657; 1267; 1927; 3101; 3811
Eco53kl	GAG!CTC	1	618
EgeI	GGC!GCC	2	828; 2737
EheI	GGC!GCC	2	828; 2737
ErhI	C!CWWGG	8	360; 677; 707; 1130; 2465; 2558; 3168; 3573
EsaBC3I	TC!GA	17	615; 628; 641; 717; 756; 963; 1886; 2577; 2850; 3006; 3030; 3066; 3228; 3419; 3464; 3719; 4557
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	21	304; 364; 681; 711; 801; 1134; 1221; 1272; 2166; 2306; 2378; 2469; 2610; 2955; 3141; 3172; 3198; 3554; 3938; 4658; 4709
FaiI	YA!TR	57	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 709; 799; 1132; 1219; 1270; 1398; 1408; 1474; 1519; 1724; 2152; 2164; 2295; 2304; 2367; 2376; 2400; 2467; 2491; 2608; 2672; 2953; 2978; 3139; 3170; 3196; 3268; 3484; 3552; 3630; 3682; 3843; 3860; 3862; 3864; 3936; 4214; 4403; 4519; 4592; 4656; 4707
FalI	AAGNNNNCTTNNNNNNNNNNNN!	1	3076
FalI	!NNNNNNNNAAGNNNNNNCTT	1	3044
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2887; 3419; 3528
FaqI	!NNNNNNNNNNNNNGTCCC	4	2252; 2324; 2388; 3683
FatI	!CATG	21	300; 360; 677; 707; 797; 1130; 1217; 1268; 2162; 2302; 2374; 2465; 2606; 2951; 3137; 3168; 3194; 3550; 3934; 4654; 4705
FauI	CCCGCNNNN!	11	93; 119; 286; 711; 964; 1171; 2058; 2413; 2434; 3630; 3762
FauI	!NNNNNNNGCGGG	6	644; 1989; 2859; 3396; 3534; 3681
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	640
FmuI	GGNC!C	11	86; 279; 657; 795; 1267; 1846; 3255; 3700; 3746; 3804; 3837
Fnu4HI	GC!NGC	43	696; 723; 768; 795; 903; 942; 981; 988; 1023; 1101; 1155; 1188; 1284; 1380; 1383; 1513; 2032; 2054; 2068; 2506; 2645; 2697; 2708; 2798; 2803; 2840; 2881; 2968; 2971; 2974; 3210; 3306; 3347; 3361; 3475; 3814; 3829; 4040; 4246; 4249; 4314; 4457; 4612
FokI	GGATGNNNNNNNNNN!	6	1162; 1366; 2603; 3060; 3085; 3539
FokI	!NNNNNNNNNNNNNCATCC	3	1081; 1222; 2409

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FriOI	GRGCY!C	6	620; 657; 1267; 1927; 3101; 3811
FseI	GGCCGG!CC	1	1022
FspI	TGC!GCA	1	2838
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1391; 1585; 2003; 2559; 3574; 3908; 4161
FspEI	CCNNNNNNNNNNNN!	159	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; 1396; 1419; 1458; 1472; 1613; 1708; 1732; 1755; 1778; 1796; 1818; 1839; 1858; 1877; 1906; 1927; 1941; 1967; 2055; 2081; 2130; 2171; 2189; 2228; 2244; 2282; 2339; 2354; 2411; 2431; 2445; 2462; 2476; 2513; 2528; 2571; 2654; 2721; 2752; 2772; 2787; 2832; 2846; 2912; 2926; 2945; 2961; 3002; 3022; 3069; 3119; 3135; 3155; 3180; 3200; 3223; 3250; 3268; 3294; 3334; 3360; 3384; 3440; 3454; 3482; 3525; 3546; 3581; 3625; 3713; 3737; 3759; 3779; 3795; 3816; 3830; 3849; 3933; 3953; 3981; 3996; 4030; 4072; 4099; 4114; 4159; 4183; 4197; 4219; 4245; 4265; 4289; 4315; 4363; 4382; 4401; 4427; 4462; 4507; 4537; 4551; 4602; 4616; 4641; 4657; 4678; 4707
FspEI	!NNNNNNNNNNNNNNNGG	128	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; 1364; 1407; 1507; 1576; 1606; 1684; 1733; 1755; 1783; 1819; 1864; 1893; 1929; 1948; 1976; 1996; 2059; 2082; 2190; 2222; 2240; 2269; 2312; 2341; 2452; 2481; 2524; 2545; 2573; 2606; 2626; 2651; 2678; 2703; 2725; 2753; 2779; 2800; 2851; 2872; 2890; 2938; 2974; 3030; 3055; 3079; 3108; 3131; 3155; 3181; 3203; 3222; 3247; 3287; 3323; 3388; 3473; 3497; 3526; 3560; 3581; 3601; 3646; 3673; 3692; 3725; 3777; 3808; 3835; 3887; 3985; 4056; 4101; 4162; 4227; 4261; 4287; 4305; 4341; 4411; 4434; 4456; 4480; 4513; 4561; 4596; 4614; 4671
Fsp4HI	GC!NGC	43	696; 723; 768; 795; 903; 942; 981; 988; 1023; 1101; 1155; 1188; 1284; 1380; 1383; 1513; 2032; 2054; 2068; 2506; 2645; 2697; 2708; 2798; 2803; 2840; 2881; 2968; 2971; 2974; 3210; 3306; 3347; 3361; 3475; 3814; 3829; 4040; 4246; 4249; 4314; 4457; 4612
GdiII	C!GGCCR	3	1020; 1380; 2642
GdiII	Y!GGCCG	5	1020; 1380; 2642; 3207; 3234
GlaI	GC!GC	24	596; 828; 1180; 1233; 2001; 2009; 2035; 2057; 2066; 2079; 2110; 2729; 2737; 2801; 2838; 3104; 3364; 3540; 3626; 4029; 4138; 4312; 4412; 4479
GluI	GC!NGC	43	696; 723; 768; 795; 903; 942; 981; 988; 1023; 1101; 1155; 1188; 1284; 1380; 1383; 1513; 2032; 2054; 2068; 2506; 2645; 2697; 2708; 2798; 2803; 2840; 2881; 2968; 2971; 2974; 3210; 3306; 3347; 3361; 3475; 3814; 3829; 4040; 4246; 4249; 4314; 4457; 4612
GsaI	CCCAG!C	5	902; 1247; 2283; 2355; 4354
GsaI	GCTGG!G	2	1318; 3244
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3576
GsuI	!NNNNNNNNNNNNNNNCTCCAG	1	3519
HaeI	WGG!CCW	5	2557; 2818; 4180; 4632; 4643
HaeII	RGCG!Y	7	598; 830; 1235; 2003; 2011; 2739; 4414
HaeIII	GG!CC	26	84; 277; 655; 698; 794; 1018; 1022; 1265; 1382; 1702; 1844; 2499; 2505; 2514; 2557; 2644; 2818; 3209; 3236; 3745; 3802; 3835; 4180; 4614; 4632; 4643
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1411; 2932
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1377; 2898
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1410; 2931
HaeIV	!NNNNNNNGAYNNNNNNRTC	2	1379; 2900
HapII	C!CGG	24	601; 657; 667; 731; 1019; 1055; 1351; 1364; 1954; 2641; 2718; 2740; 2768; 2899; 2989; 3056; 3237; 3512; 3520; 3612; 4086; 4276; 4302; 4449
HgaI	GACGCNNNNN!	3	526; 3446; 3525
HgaI	!NNNNNNNNNGCGTC	3	2069; 3964; 4542
HhaI	GCG!C	24	597; 829; 1181; 1234; 2002; 2010; 2036; 2058; 2067; 2080; 2111; 2730; 2738; 2802; 2839; 3105; 3365; 3541; 3627; 4030; 4139; 4313; 4413; 4480

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hin1I	GR!CGYC	8	122; 175; 258; 444; 827; 2736; 3438; 3517
Hin1III	CATG!	21	304; 364; 681; 711; 801; 1134; 1221; 1272; 2166; 2306; 2378; 2469; 2610; 2955; 3141; 3172; 3198; 3554; 3938; 4658; 4709
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1410; 2931
Hin4I	!NNNNNNNNGABNNNNNNRTC	3	1378; 2899; 2929
Hin4I	GABNNNNNNRTCNNNNNNNNNNNN!	3	1410; 2931; 2961
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	1378; 2899
Hin6I	G!CGC	24	595; 827; 1179; 1232; 2000; 2008; 2034; 2056; 2065; 2078; 2109; 2728; 2736; 2800; 2837; 3103; 3363; 3539; 3625; 4028; 4137; 4311; 4411; 4478
HinP1I	G!CGC	24	595; 827; 1179; 1232; 2000; 2008; 2034; 2056; 2065; 2078; 2109; 2728; 2736; 2800; 2837; 3103; 3363; 3539; 3625; 4028; 4137; 4311; 4411; 4478
HincII	GTY!RAC	2	641; 1499
HindII	GTY!RAC	2	641; 1499
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	13	410; 604; 1387; 1779; 1801; 2211; 3221; 3355; 3407; 3465; 3502; 4284; 4680
HpaI	GTT!AAC	1	1499
HpaII	C!CGG	24	601; 657; 667; 731; 1019; 1055; 1351; 1364; 1954; 2641; 2718; 2740; 2768; 2899; 2989; 3056; 3237; 3512; 3520; 3612; 4086; 4276; 4302; 4449
HphI	GGTGANNNNNNNN!	5	376; 1056; 1378; 3807; 3923
HphI	!NNNNNNNTCACC	5	720; 1074; 1152; 1853; 2914
Hpy8I	GTN!NAC	10	201; 539; 577; 641; 1209; 1499; 1783; 1800; 1855; 4342
Hpy99I	CGWCG!	10	645; 691; 1186; 2826; 2854; 3148; 3163; 3440; 3825; 4558
Hpy166II	GTN!NAC	10	201; 539; 577; 641; 1209; 1499; 1783; 1800; 1855; 4342
Hpy188I	TCN!GA	12	585; 609; 1910; 2519; 2703; 3047; 3400; 3501; 3980; 4114; 4467; 4545
Hpy188III	TC!NNGA	25	613; 963; 1147; 1227; 1344; 1391; 2163; 2215; 2528; 2581; 2754; 3070; 3079; 3162; 3218; 3262; 3352; 3385; 3454; 3935; 4009; 4092; 4190; 4288; 4422
HpyAV	CCTTCNNNNNN!	8	846; 927; 1179; 1287; 1350; 3381; 3488; 4167
HpyAV	!NNNNNGAAGG	7	1969; 2864; 3593; 3609; 3792; 4109; 4419
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 645; 1113; 1827; 3116; 3232; 3340; 3663; 4154; 4624; 4695
HpyCH4IV	A!CGT	16	122; 134; 175; 258; 339; 444; 860; 992; 1796; 1808; 1851; 1961; 2852; 3039; 3820; 3953
HpyCH4V	TG!CA	23	636; 924; 990; 1125; 1221; 1254; 1357; 1485; 1512; 1580; 2297; 2306; 2369; 2378; 2493; 2569; 2628; 2787; 2962; 2976; 4046; 4342; 4709
HpyF3I	C!TNAG	8	606; 853; 2216; 2518; 3399; 3848; 3971; 4380
HpyF10VI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 692; 731; 776; 824; 1031; 1163; 1187; 1963; 1993; 2020; 2062; 2303; 2375; 2426; 2505; 2727; 2811; 2834; 2973; 3096; 3179; 3446; 3633; 3837; 4036; 4608
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 827; 2736; 3438; 3517
Hsp92II	CATG!	21	304; 364; 681; 711; 801; 1134; 1221; 1272; 2166; 2306; 2378; 2469; 2610; 2955; 3141; 3172; 3198; 3554; 3938; 4658; 4709
HspAI	G!CGC	24	595; 827; 1179; 1232; 2000; 2008; 2034; 2056; 2065; 2078; 2109; 2728; 2736; 2800; 2837; 3103; 3363; 3539; 3625; 4028; 4137; 4311; 4411; 4478
KasI	G!GCGCC	2	826; 2735
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	649
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	652
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1499
Kzo9I	!GATC	26	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1393; 2573; 2577; 2596; 2907; 2985; 3066; 3075; 3153; 3529; 3545; 3904; 3916; 3994; 4002; 4013; 4088
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	808; 3080; 3290
LpnI	RGC!GCV	7	596; 828; 1233; 2001; 2009; 2737; 4412

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LpnPI	CCDGNNNNNNNNNN!	61	102; 295; 614; 670; 712; 744; 844; 862; 912; 934; 1032; 1068; 1135; 1189; 1257; 1345; 1364; 1473; 1778; 1967; 2190; 2228; 2244; 2284; 2339; 2356; 2456; 2541; 2654; 2731; 2753; 2776; 2912; 2926; 2945; 3002; 3069; 3119; 3135; 3192; 3250; 3459; 3525; 3549; 3625; 3714; 3817; 3850; 4081; 4099; 4245; 4265; 4289; 4315; 4364; 4462; 4507; 4537; 4616; 4641; 4678
LpnPI	!NNNNNNNNNNNNNCHGG	54	75; 268; 552; 586; 642; 716; 745; 775; 1004; 1040; 1132; 1300; 1336; 1819; 1939; 1996; 2059; 2257; 2269; 2329; 2341; 2573; 2618; 2661; 2703; 2725; 2753; 2800; 2862; 2884; 2974; 3041; 3064; 3108; 3203; 3222; 3247; 3396; 3497; 3540; 3597; 3687; 3790; 3817; 3835; 4071; 4108; 4261; 4287; 4427; 4445; 4480; 4561; 4614
Lsp1109I	GCAGCNNNNNNNN!	8	1112; 1166; 1524; 2809; 2851; 3372; 3825; 4325
Lsp1109I	!NNNNNNNNNNNGCTGC	7	974; 2018; 2683; 2867; 2960; 4026; 4232
LweI	GCATCNNNNN!	10	734; 968; 1256; 1328; 1552; 2315; 2387; 3035; 3099; 3374
LweI	!NNNNNNNNNGATGC	6	357; 1344; 2694; 2949; 3165; 4557
MabI	A!CCWGGT	1	2325
MaeI	C!TAG	8	592; 1391; 1585; 2003; 2559; 3574; 3908; 4161
MaeII	A!CGT	16	122; 134; 175; 258; 339; 444; 860; 992; 1796; 1808; 1851; 1961; 2852; 3039; 3820; 3953
MaeIII	!GTNAC	12	61; 148; 497; 1524; 2025; 2037; 2856; 3162; 3852; 4118; 4234; 4297
MalI	GA!TC	26	587; 611; 662; 715; 1030; 1078; 1093; 1145; 1298; 1395; 2575; 2579; 2598; 2909; 2987; 3068; 3077; 3155; 3531; 3547; 3906; 3918; 3996; 4004; 4015; 4090
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2160; 3349
MbiI	GAG!CGG	3	695; 1996; 3403
MboI	!GATC	26	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1393; 2573; 2577; 2596; 2907; 2985; 3066; 3075; 3153; 3529; 3545; 3904; 3916; 3994; 4002; 4013; 4088
MboII	GAAGANNNNNNNN!	7	825; 1381; 1992; 2220; 3097; 3307; 3926
MboII	!NNNNNNNTCTTC	5	1071; 3387; 3554; 3754; 3997
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1486
MflI	R!GATCY	10	585; 609; 660; 2907; 3153; 3545; 3904; 3916; 4002; 4013
MhII	GDGCH!C	15	620; 657; 781; 820; 1054; 1121; 1267; 1927; 2682; 2775; 2849; 3039; 3101; 3811; 4344
MisI	TGG!CCA	1	2818
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2818
MlyI	GAGTCNNNNN!	2	1788; 2220
MlyI	!NNNNNGACTC	6	404; 598; 1381; 1795; 3401; 4278
Mly113I	GG!CGCC	2	827; 2736
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	1	1829
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4261; 4445
MnII	CCTCNNNNNNN!	7	1455; 2519; 3337; 3543; 3857; 4227; 4551
MnII	!NNNNNGAGG	18	541; 768; 966; 1008; 1059; 1284; 1415; 1880; 2211; 2489; 2532; 2547; 2587; 2651; 2787; 3144; 3574; 4477
Mph1103I	ATGCA!T	3	2308; 2380; 4711
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	1018; 1953; 3236; 3519
MroXI	GAANN!NNTTC	1	916
MscI	TGG!CCA	1	2818
MseI	T!TAA	15	7; 1437; 1498; 1619; 1640; 1651; 1663; 1674; 1691; 1789; 2060; 3879; 3893; 3898; 3950
MslI	CAYNN!NNRTG	2	365; 3173
MspI	C!CGG	24	601; 657; 667; 731; 1019; 1055; 1351; 1364; 1954; 2641; 2718; 2740; 2768; 2899; 2989; 3056; 3237; 3512; 3520; 3612; 4086; 4276; 4302; 4449
Msp20I	TGG!CCA	1	2818
MspA1I	CMG!CKG	6	651; 902; 2234; 2842; 4071; 4316
MspC1	C!TTAAG	1	1618

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	238	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; 1396; 1409; 1424; 1443; 1460; 1473; 1514; 1528; 1541; 1559; 1597; 1612; 1630; 1671; 1695; 1715; 1733; 1754; 1777; 1809; 1824; 1846; 1864; 1877; 1898; 1915; 1928; 1941; 1957; 1970; 2000; 2015; 2040; 2058; 2071; 2086; 2110; 2124; 2148; 2173; 2189; 2227; 2243; 2282; 2296; 2310; 2338; 2354; 2368; 2382; 2411; 2424; 2445; 2454; 2476; 2506; 2522; 2540; 2570; 2593; 2617; 2641; 2660; 2688; 2714; 2730; 2743; 2766; 2780; 2800; 2813; 2827; 2846; 2860; 2873; 2889; 2904; 2917; 2933; 2948; 2964; 2989; 3008; 3024; 3037; 3050; 3068; 3082; 3096; 3112; 3134; 3150; 3169; 3191; 3207; 3230; 3249; 3263; 3279; 3293; 3313; 3329; 3342; 3364; 3397; 3411; 3431; 3444; 3458; 3512; 3525; 3548; 3561; 3580; 3597; 3624; 3660; 3693; 3712; 3737; 3758; 3785; 3798; 3815; 3829; 3844; 3860; 3920; 3945; 3961; 3983; 3996; 4010; 4041; 4055; 4080; 4098; 4113; 4126; 4145; 4158; 4173; 4202; 4221; 4239; 4264; 4279; 4298; 4314; 4333; 4351; 4367; 4381; 4400; 4427; 4450; 4472; 4491; 4506; 4519; 4536; 4556; 4583; 4596; 4615; 4640; 4663; 4677; 4690; 4707
MspJI	!NNNNNNNNNNNNYNG	200	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; 1370; 1388; 1417; 1446; 1488; 1571; 1606; 1633; 1656; 1685; 1729; 1751; 1783; 1819; 1836; 1857; 1894; 1914; 1931; 1948; 1983; 2001; 2019; 2036; 2060; 2082; 2109; 2137; 2163; 2201; 2222; 2239; 2257; 2280; 2301; 2329; 2352; 2373; 2391; 2412; 2429; 2452; 2476; 2496; 2514; 2536; 2567; 2589; 2615; 2634; 2651; 2679; 2698; 2717; 2735; 2753; 2774; 2796; 2820; 2853; 2873; 2891; 2912; 2938; 2965; 2982; 2999; 3016; 3042; 3064; 3086; 3104; 3124; 3143; 3165; 3203; 3223; 3247; 3267; 3287; 3314; 3338; 3371; 3390; 3418; 3440; 3469; 3497; 3522; 3541; 3560; 3581; 3598; 3615; 3646; 3673; 3693; 3716; 3736; 3773; 3790; 3809; 3835; 3855; 3894; 3921; 3940; 3958; 3995; 4013; 4054; 4072; 4098; 4115; 4147; 4176; 4204; 4225; 4248; 4267; 4288; 4306; 4323; 4341; 4367; 4388; 4408; 4428; 4446; 4467; 4493; 4510; 4529; 4548; 4577; 4596; 4614; 4633; 4651; 4669; 4692
MspR9I	CC!NGG	18	90; 283; 657; 658; 1351; 2272; 2327; 2344; 2740; 2900; 3123; 3513; 3702; 3805; 4277; 4495; 4508; 4629
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1486
MvaI	CC!WGG	11	90; 283; 2272; 2327; 2344; 3123; 3702; 3805; 4495; 4508; 4629
MvaI269I	GAATGCN!	1	1487
MvaI269I	G!CATTC	1	1580
MvnI	CG!CG	19	60; 651; 1025; 1181; 1286; 1385; 1660; 2036; 2056; 2080; 2111; 2802; 3103; 3541; 3625; 3688; 3757; 4030; 4611
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 692; 731; 776; 824; 1031; 1163; 1187; 1963; 1993; 2020; 2062; 2303; 2375; 2426; 2505; 2727; 2811; 2834; 2973; 3096; 3179; 3446; 3633; 3837; 4036; 4608
NaeI	GCC!GGC	4	1020; 1955; 3238; 3521
NarI	GG!CGCC	2	827; 2736
NciI	CC!SGG	7	657; 658; 1351; 2740; 2900; 3513; 4277
NcoI	C!CATGG	6	360; 677; 707; 1130; 2465; 3168
NdeI	CA!TATG	1	234
NdeII	!GATC	26	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1393; 2573; 2577; 2596; 2907; 2985; 3066; 3075; 3153; 3529; 3545; 3904; 3916; 3994; 4002; 4013; 4088
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	1018; 1953; 3236; 3519
NheI	G!CTAGC	1	591

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NlaIII	CATG!	21	304; 364; 681; 711; 801; 1134; 1221; 1272; 2166; 2306; 2378; 2469; 2610; 2955; 3141; 3172; 3198; 3554; 3938; 4658; 4709
NlaIV	GGN!NCC	23	467; 647; 655; 662; 735; 780; 828; 891; 1053; 1265; 1891; 1912; 1924; 2115; 2276; 2348; 2737; 2772; 3620; 3699; 3744; 4587; 4626
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	750; 1568; 1883; 3475
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 844; 1027; 4547
Nli3877I	CYCGR!G	4	617; 660; 788; 1067
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2525; 2961
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2490
NmeDI	RCCGGYNNNNNNNN!	9	678; 742; 1030; 1066; 1375; 1965; 3067; 3248; 3531
NmeDI	!NNNNNNNNNNNNRCCGGY	9	653; 717; 1005; 1041; 1350; 1940; 3042; 3223; 3506
NmuCI	!GTSAC	3	2025; 2856; 3162
NotI	GC!GGCCGC	1	1380
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2838
NsiI	ATGCA!T	3	2308; 2380; 4711
NspI	RCATG!Y	5	1221; 2306; 2378; 3141; 4658
NspV	TT!CGAA	2	627; 3418
OliI	CACNN!NNGTG	0	
PabI	GTA!C	10	220; 245; 300; 333; 384; 541; 648; 971; 1331; 3043
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2306; 2378; 3141
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	2162; 3934
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3701; 3804
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2557
PciI	A!CATGT	1	4654
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	3	808; 3080; 3290
PcsI	WCGNNNN!NNNCGW	7	968; 3030; 3107; 3350; 3424; 3817; 4335
PctI	GAATGCN!	1	1487
PctI	G!CATTC	1	1580
PdiI	GCC!GGC	4	1020; 1955; 3238; 3521
PdmI	GAANN!NNTTC	1	916
PfeI	G!AWTC	5	3221; 3355; 3465; 3502; 4680
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2854
PfIMI	CCANNNN!NTGG	1	864
PfoI	T!CCNGGA	1	3511
PhoI	GG!CC	26	84; 277; 655; 698; 794; 1018; 1022; 1265; 1382; 1702; 1844; 2499; 2505; 2514; 2557; 2644; 2818; 3209; 3236; 3745; 3802; 3835; 4180; 4614; 4632; 4643
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3117
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2682; 2937
PleI	GAGTCNNNN!	2	1787; 2219
PleI	!NNNNNGACTC	6	404; 598; 1381; 1795; 3401; 4278
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	2	861; 993
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	2	861; 993
PpiI	GAACNNNNCTCNNNNNNNNNNNN!	1	1818
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	3948
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3980
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1786
PpsI	GAGTCNNNN!	2	1787; 2219
PpsI	!NNNNNGACTC	6	404; 598; 1381; 1795; 3401; 4278
Ppu10I	A!TGCAT	3	2304; 2376; 4707
Ppu21I	YAC!GTR	5	340; 861; 993; 1852; 3040
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4654
PshAI	GACNN!NNGTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1519; 1724
Psp03I	GGWC!C	2	3255; 3700
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	11	88; 281; 2270; 2325; 2342; 3121; 3700; 3803; 4493; 4506; 4627
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	2	861; 993
PspEI	G!GTNACC	0	
PspGI	!CCWGG	11	88; 281; 2270; 2325; 2342; 3121; 3700; 3803; 4493; 4506; 4627
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	23	467; 647; 655; 662; 735; 780; 828; 891; 1053; 1265; 1891; 1912; 1924; 2115; 2276; 2348; 2737; 2772; 3620; 3699; 3744; 4587; 4626
PspOMI	G!GGCCC	2	653; 1263
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 2466; 3465
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2868
PspPI	G!GNCC	11	83; 276; 654; 792; 1264; 1843; 3252; 3697; 3743; 3801; 3834
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	5	917; 1262; 2289; 2361; 3867
PspPRI	!NNNNNNNNNNNNNNCTGRGG	2	2202; 3397
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	1266; 3837
PstI	CTGCA!G	2	638; 1256
PstNI	CAGNN!CTG	2	3837; 4245
PsuI	R!GATCY	10	585; 609; 660; 2907; 3153; 3545; 3904; 3916; 4002; 4013
PsyI	GACN!NNGTC	1	2854
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2234; 2842
RcaI	T!CATGA	2	2162; 3934
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	3251
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	1	1022
RleAI	CCCACANNNNNNNNNNNN!	1	1465
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	2	998; 1091
RpaB5I	!NNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	10	219; 244; 299; 332; 383; 540; 647; 970; 1330; 3042
RsaNI	G!TAC	10	218; 243; 298; 331; 382; 539; 646; 969; 1329; 3041
RseI	CAYNN!NNRTG	2	365; 3173
RsrII	CG!GWCCG	1	3252
Rsr2I	CG!GWCCG	1	3252
SacI	GAGCT!C	1	620
SacII	CCGC!GG	1	652
SalI	G!TCGAC	1	639
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	808; 3080; 3290
SaqAI	T!TAA	15	7; 1437; 1498; 1619; 1640; 1651; 1663; 1674; 1691; 1789; 2060; 3879; 3893; 3898; 3950
SatI	GC!NGC	43	696; 723; 768; 795; 903; 942; 981; 988; 1023; 1101; 1155; 1188; 1284; 1380; 1383; 1513; 2032; 2054; 2068; 2506; 2645; 2697; 2708; 2798; 2803; 2840; 2881; 2968; 2971; 2974; 3210; 3306; 3347; 3361; 3475; 3814; 3829; 4040; 4246; 4249; 4314; 4457; 4612
Sau96I	G!GNCC	11	83; 276; 654; 792; 1264; 1843; 3252; 3697; 3743; 3801; 3834

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sau3AI	!GATC	26	585; 609; 660; 713; 1028; 1076; 1091; 1143; 1296; 1393; 2573; 2577; 2596; 2907; 2985; 3066; 3075; 3153; 3529; 3545; 3904; 3916; 3994; 4002; 4013; 4088
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1788; 2220
SchI	!NNNNNGACTC	6	404; 598; 1381; 1795; 3401; 4278
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	18	90; 283; 657; 658; 1351; 2272; 2327; 2344; 2740; 2900; 3123; 3513; 3702; 3805; 4277; 4495; 4508; 4629
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNN!	4	2314; 2386; 2555; 4497
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2891; 3376
SdeOSI	GACNNNNRTGANNNNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	15	620; 657; 781; 820; 1054; 1121; 1267; 1927; 2682; 2775; 2849; 3039; 3101; 3811; 4344
SelI	!CGCG	19	58; 649; 1023; 1179; 1284; 1383; 1658; 2034; 2054; 2078; 2109; 2800; 3101; 3539; 3623; 3686; 3755; 4028; 4609
SetI	ASST!	65	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; 1426; 1447; 1456; 1468; 1517; 1684; 1799; 1811; 1854; 1891; 1941; 1964; 2088; 2236; 2331; 2524; 2637; 2765; 2844; 2855; 2927; 2998; 3042; 3302; 3448; 3492; 3823; 3854; 3913; 3956; 4099; 4120; 4219; 4356; 4371; 4390; 4402; 4446; 4492; 4543
SexAI	A!CCWGGT	1	2325
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	734; 968; 1256; 1328; 1552; 2315; 2387; 3035; 3099; 3374
SfaNI	!NNNNNNNNNGATGC	6	357; 1344; 2694; 2949; 3165; 4557
SfcI	C!TRYAG	6	634; 1194; 1252; 2071; 4198; 4389
SfiI	GGCCNNNN!NGGCC	1	2511
SfoI	GGC!GCC	2	828; 2737
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	1	652
SfuI	TT!CGAA	2	627; 3418
SgeI	CNNGNNNNNNNN!	189	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; 1396; 1443; 1472; 1514; 1597; 1671; 1755; 1777; 1809; 1846; 1864; 1883; 1898; 1940; 1957; 1974; 2009; 2023; 2040; 2062; 2086; 2110; 2175; 2189; 2227; 2243; 2283; 2296; 2315; 2338; 2355; 2368; 2387; 2417; 2438; 2455; 2478; 2513; 2540; 2571; 2593; 2619; 2641; 2660; 2688; 2724; 2743; 2766; 2780; 2800; 2813; 2827; 2846; 2860; 2879; 2911; 2925; 2938; 2964; 2995; 3008; 3025; 3042; 3056; 3073; 3091; 3106; 3134; 3150; 3169; 3191; 3207; 3230; 3249; 3274; 3293; 3313; 3340; 3364; 3397; 3416; 3444; 3458; 3524; 3548; 3563; 3586; 3607; 3624; 3672; 3699; 3713; 3742; 3766; 3799; 3816; 3836; 3849; 3862; 3920; 3947; 3966; 3996; 4021; 4041; 4055; 4080; 4098; 4135; 4173; 4202; 4230; 4244; 4264; 4279; 4300; 4314; 4333; 4351; 4367; 4407; 4427; 4454; 4472; 4493; 4506; 4519; 4536; 4560; 4583; 4615; 4640; 4667; 4689

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	165	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; 1370; 1417; 1446; 1488; 1571; 1645; 1729; 1751; 1783; 1820; 1838; 1857; 1914; 1931; 1948; 1983; 2001; 2021; 2041; 2060; 2084; 2149; 2201; 2257; 2289; 2312; 2329; 2361; 2391; 2412; 2429; 2452; 2487; 2514; 2545; 2567; 2593; 2615; 2634; 2662; 2698; 2717; 2740; 2761; 2779; 2796; 2820; 2853; 2885; 2912; 2938; 2969; 2999; 3016; 3042; 3065; 3086; 3108; 3128; 3148; 3165; 3204; 3223; 3248; 3267; 3287; 3314; 3338; 3371; 3390; 3418; 3440; 3498; 3522; 3541; 3560; 3581; 3598; 3646; 3673; 3693; 3716; 3740; 3773; 3790; 3810; 3836; 3894; 3921; 3940; 3970; 3995; 4015; 4054; 4072; 4109; 4147; 4176; 4204; 4225; 4253; 4274; 4307; 4325; 4381; 4401; 4428; 4446; 4467; 4493; 4510; 4534; 4557; 4589; 4614; 4641; 4663; 4692
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	652
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1883; 3670; 4463
SimI	!GACCC	5	106; 1346; 3164; 3732; 3980
SinI	G!GWCC	2	3252; 3697
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	2	365; 3173
SmlI	C!TYRAG	7	613; 619; 1618; 3127; 4009; 4286; 4548
SmoI	C!TYRAG	7	613; 619; 1618; 3127; 4009; 4286; 4548
SmuI	CCCGCNNNN!	11	93; 119; 286; 711; 964; 1171; 2058; 2413; 2434; 3630; 3762
SmuI	!NNNNNNGCGGG	6	644; 1989; 2859; 3396; 3534; 3681
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2306; 2378; 3141
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 629; 1486; 1550; 1628; 1654; 1665; 2312; 2384; 2476; 3894
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2557
SsiI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 649; 704; 723; 795; 957; 1008; 1023; 1098; 1164; 1281; 1284; 1383; 2051; 2054; 2068; 2158; 2406; 2418; 2427; 2439; 2449; 2460; 2506; 2645; 2708; 3210; 3255; 3321; 3347; 3472; 3475; 3623; 3755; 4062; 4206; 4702
SsiI	G!CGG	32	370; 403; 528; 651; 695; 767; 770; 902; 941; 980; 1187; 1379; 1996; 2023; 2111; 2221; 2802; 2866; 2967; 2970; 3250; 3305; 3403; 3541; 3688; 3828; 4071; 4316; 4437; 4456; 4583; 4611
SspI	AAT!ATT	2	1644; 2197
SspDI	G!GCGCC	2	826; 2735
SspD5I	GGTGANNNNNNNN!	5	376; 1056; 1378; 3807; 3923
SspD5I	!NNNNNNNNNTCACC	5	719; 1073; 1151; 1852; 2913
SstI	GAGCT!C	1	620
SstII	CCGC!GG	1	652
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 663; 710; 791; 963; 1070; 1170; 1357; 1935; 2057; 2412; 2433; 2746; 3149; 3288; 3359; 3629; 3761; 3991; 4429
Sth132I	!NNNNNNNNCGGG	20	15; 407; 470; 643; 1251; 1936; 1988; 2089; 2816; 2858; 2891; 3395; 3504; 3533; 3680; 3784; 3815; 4268; 4312; 4520
Sth302II	CC!GG	24	602; 658; 668; 732; 1020; 1056; 1352; 1365; 1955; 2642; 2719; 2741; 2769; 2900; 2990; 3057; 3238; 3513; 3521; 3613; 4087; 4277; 4303; 4450
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	6	1163; 1367; 2604; 3061; 3086; 3540
StsI	!NNNNNNNNNNNNNNNCATCC	3	1080; 1221; 2408
StuI	AGG!CCT	1	2557

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StyI	C!CWWGG	8	360; 677; 707; 1130; 2465; 2558; 3168; 3573
StyD4I	!CCNGG	18	88; 281; 655; 656; 1349; 2270; 2325; 2342; 2738; 2898; 3121; 3511; 3700; 3803; 4275; 4493; 4506; 4627
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 645; 1113; 1827; 3116; 3232; 3340; 3663; 4154; 4624; 4695
TaiI	ACGT!	16	125; 137; 178; 261; 342; 447; 863; 995; 1799; 1811; 1854; 1964; 2855; 3042; 3823; 3956
TaqI	T!CGA	17	614; 627; 640; 716; 755; 962; 1885; 2576; 2849; 3005; 3029; 3065; 3227; 3418; 3463; 3718; 4556
TaqII	GACCGANNNNNNNNNNN!	3	1756; 2773; 3441
TaqII	!NNNNNNNNNTCGGTC	1	3685
TaqII	CACCCANNNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	3	172; 2640; 3232
TasI	!AATT	11	18; 629; 1486; 1550; 1628; 1654; 1665; 2312; 2384; 2476; 3894
TatI	W!GTACW	4	217; 297; 330; 381
TauI	GCSG!C	27	698; 725; 770; 797; 905; 944; 983; 1025; 1190; 1286; 1382; 1385; 2056; 2070; 2508; 2647; 2710; 2805; 2970; 2973; 3212; 3308; 3349; 3477; 3831; 4459; 4614
TfiI	G!AWTC	5	3221; 3355; 3465; 3502; 4680
TliI	C!TCGAG	1	613
TruII	T!TAA	15	7; 1437; 1498; 1619; 1640; 1651; 1663; 1674; 1691; 1789; 2060; 3879; 3893; 3898; 3950
Tru9I	T!TAA	15	7; 1437; 1498; 1619; 1640; 1651; 1663; 1674; 1691; 1789; 2060; 3879; 3893; 3898; 3950
TscAI	CASTGNN!	5	1582; 2865; 3975; 4246; 4259
TseI	G!CWGC	16	987; 1100; 1154; 1512; 2031; 2696; 2797; 2839; 2880; 2973; 3360; 3813; 4039; 4245; 4248; 4313
TsoI	TARCCANNNNNNNNNNN!	2	1708; 2055
TsoI	!NNNNNNNNNTGGYTA	2	1513; 3265
Tsp45I	!GTSAC	3	2025; 2856; 3162
Tsp509I	!AATT	11	18; 629; 1486; 1550; 1628; 1654; 1665; 2312; 2384; 2476; 3894
TspDTI	ATGAANNNNNNNNNNN!	4	826; 1494; 2795; 3499
TspDTI	!NNNNNNNNNTTCAT	4	26; 3213; 3669; 3876
TspEI	!AATT	11	18; 629; 1486; 1550; 1628; 1654; 1665; 2312; 2384; 2476; 3894
TspGWI	ACGGANNNNNNNNNNN!	1	3611
TspGWI	!NNNNNNNNNTCCGT	1	1191
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	5	1582; 2865; 3975; 4246; 4259
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	1	703
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	1	735
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2854
Tth111II	CAARCANNNNNNNNNNN!	1	4063
Tth111III	!NNNNNNNNNTGYTTG	3	3171; 4031; 4070
UnbI	!GGNCC	11	82; 275; 653; 791; 1263; 1842; 3251; 3696; 3742; 3800; 3833
Van9II	CCANNNN!NTGG	1	864
Vha464I	C!TTAAG	1	1618
VneI	G!TGCAC	1	4340
VpaK11AI	!GWCC	2	3251; 3696
VpaK11BI	G!GWCC	2	3252; 3697
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	629; 1550; 1654; 1665
XbaI	T!CTAGA	1	1390
XceI	RCATG!Y	5	1221; 2306; 2378; 3141; 4658
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	10	585; 609; 660; 2907; 3153; 3545; 3904; 3916; 4002; 4013
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	2558; 3573
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	1	916
XspI	C!TAG	8	592; 1391; 1585; 2003; 2559; 3574; 3908; 4161
ZraI	GAC!GTC	4	123; 176; 259; 445

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2308; 2380; 4711