

pKillerRed-C vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1538; 1743
AarI	CACCTGCNNNN!	1	970
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1826; 2782; 4571
AatI	AGG!CCT	1	2576
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1370
AccII	CG!CG	20	60; 1025; 1178; 1250; 1268; 1381; 1643; 1679; 2055; 2075; 2099; 2130; 2821; 3122; 3560; 3644; 3707; 3776; 4049; 4630
AccIII	T!CCGGA	1	1330
Acc16I	TGC!GCA	1	2857
Acc36I	ACCTGCNNNN!	3	970; 3023; 3473
Acc36I	!NNNNNNNNGCAGGT	1	2642
Acc65I	G!GTACC	1	1375
AccB1I	G!GYRCC	6	465; 922; 1375; 1908; 2754; 2789
AccB7I	CCANNNN!NTGG	2	785; 1035
AccBSI	CCG!CTC	2	2179; 3368
AccBSI	GAG!CGG	2	2015; 3422
AceIII	CAGCTCNNNNNNN!	1	1711
AceIII	!NNNNNNNNNNGAGCTG	3	552; 771; 937
AciI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 632; 834; 897; 975; 1118; 1176; 1296; 1379; 2070; 2073; 2087; 2177; 2425; 2437; 2446; 2458; 2468; 2479; 2525; 2664; 2727; 3229; 3274; 3340; 3366; 3491; 3494; 3642; 3774; 4081; 4225; 4721
AciI	G!CGG	26	370; 403; 528; 626; 1127; 1381; 2015; 2042; 2130; 2240; 2821; 2885; 2986; 2989; 3269; 3324; 3422; 3560; 3707; 3847; 4090; 4335; 4456; 4475; 4602; 4630
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	1398; 1407; 2623; 2934; 3180; 3572; 3931; 4029; 4115
AclWI	!NNNNNGATCC	8	580; 801; 1182; 1385; 2999; 3543; 3930; 4027
AcoI	Y!GGCCR	6	687; 707; 2661; 2835; 3226; 3253
AcsI	R!AATTY	4	1359; 1569; 1673; 1684
AcuI	CTGAAGNNNNNNNNNNNNNNN!	2	2901; 3333
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4131
AcvI	CAC!GTG	1	1257
AcyI	GR!CGYC	7	122; 175; 258; 444; 2755; 3457; 3536
AdeI	CACNNN!GTG	4	756; 1206; 1290; 1871
AfaI	GT!AC	9	219; 244; 299; 332; 383; 540; 814; 1377; 3061
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	20	49; 785; 1035; 1137; 1269; 1767; 2093; 2485; 2736; 3280; 3561; 3593; 3725; 3760; 3810; 3842; 4195; 4474; 4640; 4658
AfII	C!TTAAG	0	
AfIII	A!CRYGT	4	1061; 1256; 1641; 4673
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	8	660; 744; 1167; 2166; 2210; 2220; 2633; 4209
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	12	88; 281; 863; 2289; 2344; 2361; 3140; 3719; 3822; 4512; 4525; 4646
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	2	703; 964
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2329; 2401
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	2	2295; 2367
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1837
AloI	!NNNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1805
AluI	AG!CT	19	566; 774; 785; 951; 1032; 1095; 1348; 1354; 1534; 1701; 1958; 2253; 2541; 2861; 3319; 4116; 4373; 4419; 4509
AluBI	AG!CT	19	566; 774; 785; 951; 1032; 1095; 1348; 1354; 1534; 1701; 1958; 2253; 2541; 2861; 3319; 4116; 4373; 4419; 4509
AlwI	GGATCNNNN!	9	1398; 1407; 2623; 2934; 3180; 3572; 3931; 4029; 4115
AlwI	!NNNNNGATCC	8	580; 801; 1182; 1385; 2999; 3543; 3930; 4027
Alw21I	GWGCW!C	5	752; 1350; 2868; 3058; 4363
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	6	757; 1048; 2179; 2597; 3616; 3744
Alw44I	G!TGCAC	2	748; 4359
AlwNI	CAGNN!CTG	2	3856; 4264
Ama87I	C!YCGRG	3	877; 1343; 1386
Aor13HI	T!CCGGA	1	1330
Aor51HI	AG!GCT	1	596
ApaI	GGGCC!C	1	1387
ApaBI	GCANNNNN!TGC	3	2323; 2395; 3857
ApaLI	G!TGCAC	2	748; 4359
ApeKI	G!CWGC	17	716; 719; 774; 1172; 1531; 2050; 2715; 2816; 2858; 2899; 2992; 3379; 3832; 4058; 4264; 4267; 4332
ApoI	R!AATTY	4	1359; 1569; 1673; 1684
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	3	695; 917; 3270
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3064; 3717; 4555
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3154
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	794
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2583
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	2	855; 3325
ArsI	GACNNNNNTTYGNNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	23	586; 807; 1188; 1340; 1391; 1400; 1413; 2593; 2597; 2616; 2927; 3005; 3086; 3095; 3173; 3549; 3565; 3924; 3936; 4014; 4022; 4033; 4108
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2873
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	1375
AspA2I	C!CTAGG	2	2577; 3592
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	28	597; 908; 1025; 1091; 1180; 1250; 1268; 1309; 2021; 2029; 2055; 2077; 2086; 2099; 2130; 2749; 2757; 2821; 2858; 3124; 3384; 3560; 3646; 4049; 4158; 4332; 4432; 4499
AspS9I	G!GNCC	15	83; 276; 628; 882; 1012; 1075; 1140; 1195; 1384; 1862; 3271; 3716; 3762; 3820; 3853
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	1357; 3437
AsuC2I	CC!SGG	7	1193; 1387; 1388; 2759; 2919; 3532; 4296
AsuHPI	GGTGANNNNNNNNN!	5	376; 693; 981; 3826; 3942
AsuHPI	!NNNNNNNTCACC	7	690; 972; 1104; 1209; 1293; 1872; 2933
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	3	877; 1343; 1386
AvaII	G!GWCC	2	3271; 3716
AviII	TGC!GCA	1	2857
AvrII	C!CTAGG	2	2577; 3592

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AxyI	CC!TNAGG	2	2235; 3867
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	6	752; 1295; 1387; 2701; 2794; 4363
BalI	TGG!CCA	1	2837
BamHI	G!GATCC	1	1390
BanI	G!GYRCC	6	465; 922; 1375; 1908; 2754; 2789
BanII	GRGCY!C	6	824; 1350; 1387; 1946; 3120; 3830
BanIII	AT!CGAT	1	2595
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	2	785; 1035
BauI	C!ACGAG	2	3473; 4500
BauI	C!TCGTG	1	3347
BbeI	GGCGC!C	1	2758
Bbr7I	GAAGACNNNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	1	1257
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2325; 2397; 3160
BbvI	GCAGCNNNNNNNN!	8	728; 1184; 1543; 2828; 2870; 3391; 3844; 4344
BbvI	!NNNNNNNNNNNGCTGC	7	761; 2037; 2702; 2886; 2979; 4045; 4251
Bbv12I	GWGCW!C	5	752; 1350; 2868; 3058; 4363
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	10	709; 802; 1024; 1189; 1219; 1318; 1885; 2449; 2975; 3477
BccI	!NNNNNGATGG	4	1131; 1853; 2633; 3061
BceAI	ACGGCNNNNNNNNNNNN!	12	690; 729; 750; 831; 861; 936; 1011; 1089; 1140; 1185; 3181; 3668
BceAI	!NNNNNNNNNNNNNGCCGT	5	739; 1069; 1896; 2714; 4173
Bcefi	ACGGCNNNNNNNNNNNN!	12	690; 729; 750; 831; 861; 936; 1011; 1089; 1140; 1185; 3181; 3668
Bcefi	!NNNNNNNNNNNNNGCCGT	5	740; 1070; 1897; 2715; 4174
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2184; 2974; 4475
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1412
BcnI	CC!SGG	7	1193; 1387; 1388; 2759; 2919; 3532; 4296
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNNN!	4	994; 1231; 1435; 4608
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	4	960; 1197; 1401; 4574
BfaI	C!TAG	8	592; 1403; 1604; 2022; 2578; 3593; 3927; 4180
BfiI	ACTGGGNNNNN!	1	2704
BfiI	!NNNNCCAGT	2	289; 2456
BfmI	C!TRYAG	4	1364; 2090; 4217; 4408
BfoI	RGCG!Y	6	598; 1310; 2022; 2030; 2758; 4433
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2184; 2974; 4475
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	3	970; 3023; 3473
BfuAI	!NNNNNNNNNGCAGGT	1	2642
BfuCI	!GATC	23	585; 806; 1187; 1339; 1390; 1399; 1412; 2592; 2596; 2615; 2926; 3004; 3085; 3094; 3172; 3548; 3564; 3923; 3935; 4013; 4021; 4032; 4107
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2530
BglII	A!GATCT	1	1339

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BisI	GC!NGC	36	627; 717; 720; 775; 975; 1128; 1173; 1176; 1532; 2051; 2073; 2087; 2525; 2664; 2716; 2727; 2817; 2822; 2859; 2900; 2987; 2990; 2993; 3229; 3325; 3366; 3380; 3494; 3833; 3848; 4059; 4265; 4268; 4333; 4476; 4631
BlnI	C!CTAGG	2	2577; 3592
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	36	628; 718; 721; 776; 976; 1129; 1174; 1177; 1533; 2052; 2074; 2088; 2526; 2665; 2717; 2728; 2818; 2823; 2860; 2901; 2988; 2991; 2994; 3230; 3326; 3367; 3381; 3495; 3834; 3849; 4060; 4266; 4269; 4334; 4477; 4632
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	3271; 3716
Bme1390I	CC!NGG	19	90; 283; 865; 1193; 1387; 1388; 2291; 2346; 2363; 2759; 2919; 3142; 3532; 3721; 3824; 4296; 4514; 4527; 4648
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	3	877; 1343; 1386
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	15	84; 277; 629; 883; 1013; 1076; 1141; 1196; 1385; 1863; 3272; 3717; 3763; 3821; 3854
BmiI	GGN!NCC	21	467; 630; 924; 1014; 1077; 1377; 1385; 1392; 1910; 1931; 1943; 2134; 2295; 2367; 2756; 2791; 3639; 3718; 3763; 4606; 4645
BmrI	ACTGGGNNNNN!	1	2704
BmrI	!NNNNCCCAGT	2	289; 2456
BmrFI	CC!NGG	19	90; 283; 865; 1193; 1387; 1388; 2291; 2346; 2363; 2759; 2919; 3142; 3532; 3721; 3824; 4296; 4514; 4527; 4648
BmsI	GCATCNNNNN!	10	857; 899; 986; 1307; 1571; 2334; 2406; 3054; 3118; 3393
BmsI	!NNNNNNNNNGATGC	5	357; 2713; 2968; 3184; 4576
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2704
BmuI	!NNNNCCCAGT	2	289; 2456
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNCTCNNNNNNNNNNNN!	2	2544; 3443
BpI	!NNNNNNNGAGNNNNNCTC	2	2512; 3411
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3595
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	3538
Bpu10I	CC!TNAGC	1	886
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1357; 3437
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4049; 4588
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	1334; 3131; 4290
BpuMI	CC!SGG	7	1193; 1387; 1388; 2759; 2919; 3532; 4296
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	757; 1048; 3744
Bsa29I	AT!CGAT	1	2595
BsaAI	YAC!GTR	4	340; 1257; 1871; 3059
BsaBI	GATNN!NNATC	2	1417; 2614
BsaHI	GR!CGYC	7	122; 175; 258; 444; 2755; 3457; 3536
BsaJI	C!CNNGG	23	360; 611; 732; 863; 878; 1071; 1191; 1379; 1386; 2289; 2361; 2484; 2519; 2528; 2577; 2918; 3187; 3592; 3719; 3720; 3822; 3823; 4513
BsaMI	GAATGCN!	1	1506
BsaMI	G!CATTC	1	1599
BsaWI	W!CCGGW	7	600; 1330; 1396; 2786; 3630; 4320; 4467
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1835
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1805
BsbI	CAACACNNNNNNNNNNNNNNNN!	0	

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BsbI	!NNNNNNNNNNNNNNNNNNNGTGTTG	2	1756; 3663
Bsc4I	CCNNNNN!NNGG	20	49; 785; 1035; 1137; 1269; 1767; 2093; 2485; 2736; 3280; 3561; 3593; 3725; 3760; 3810; 3842; 4195; 4474; 4640; 4658
BscAI	GCATCNNNN!	10	856; 898; 985; 1306; 1570; 2333; 2405; 3053; 3117; 3392
BscAI	!NNNNNNGATGC	5	360; 2716; 2971; 3187; 4579
BseI	ACTGGN!	3	2699; 2900; 4146
BseI	C!CAGT	6	295; 810; 1784; 2462; 4258; 4271
Bse8I	GATNN!NNATC	2	1417; 2614
Bse21I	CC!TNAGG	2	2235; 3867
Bse118I	R!CCGGY	6	600; 766; 1972; 3074; 3255; 3538
BseAI	T!CCGGA	1	1330
BseBI	CC!WGG	12	90; 283; 865; 2291; 2346; 2363; 3142; 3721; 3824; 4514; 4527; 4648
BseCI	AT!CGAT	1	2595
BseDI	C!CNNGG	23	360; 611; 732; 863; 878; 1071; 1191; 1379; 1386; 2289; 2361; 2484; 2519; 2528; 2577; 2918; 3187; 3592; 3719; 3720; 3822; 3823; 4513
Bse3DI	GCAATGNN!	1	2988
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2615; 3072; 3097; 3551
BseGI	!CATCC	2	1040; 2441
BseJI	GATNN!NNATC	2	1417; 2614
BseLI	CCNNNNN!NNGG	20	49; 785; 1035; 1137; 1269; 1767; 2093; 2485; 2736; 3280; 3561; 3593; 3725; 3760; 3810; 3842; 4195; 4474; 4640; 4658
BseMI	GCAATGNN!	1	2988
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	1350; 3881
BseMII	!NNNNNNNNCTGAG	6	877; 2226; 2528; 3409; 3981; 4390
BseNI	ACTGGN!	3	2699; 2900; 4146
BseNI	C!CAGT	6	295; 810; 1784; 2462; 4258; 4271
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2573
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!	6	752; 1295; 1387; 2701; 2794; 4363
BseXI	GCAGCNNNNNNNN!	8	728; 1184; 1543; 2828; 2870; 3391; 3844; 4344
BseXI	!NNNNNNNNNNNGCTGC	7	761; 2037; 2702; 2886; 2979; 4045; 4251
BseX3I	C!GGCCG	1	2661
BseYI	C!CCAGC	3	2298; 2370; 4369
BseYI	G!CTGGG	1	3259
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	20	60; 1025; 1178; 1250; 1268; 1381; 1643; 1679; 2055; 2075; 2099; 2130; 2821; 3122; 3560; 3644; 3707; 3776; 4049; 4630
Bsh1285I	CGRY!CG	4	605; 897; 2664; 4339
BshFI	GG!CC	31	84; 277; 629; 689; 709; 884; 1013; 1076; 1099; 1130; 1142; 1196; 1276; 1385; 1721; 1863; 2518; 2524; 2533; 2576; 2663; 2837; 3228; 3255; 3764; 3821; 3854; 4199; 4633; 4651; 4662
BshNI	G!GYRCC	6	465; 922; 1375; 1908; 2754; 2789
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	2595
BsiEI	CGRY!CG	4	605; 897; 2664; 4339
BsiHKAI	GWGCW!C	5	752; 1350; 2868; 3058; 4363
BsiHKCI	C!YCGRG	3	877; 1343; 1386
BsiSI	C!CGG	22	601; 767; 1193; 1331; 1387; 1397; 1973; 2660; 2737; 2759; 2787; 2918; 3008; 3075; 3256; 3531; 3539; 3631; 4105; 4295; 4321; 4468
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	20	49; 785; 1035; 1137; 1269; 1767; 2093; 2485; 2736; 3280; 3561; 3593; 3725; 3760; 3810; 3842; 4195; 4474; 4640; 4658
BsIFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1246; 2906; 3438; 3547
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2271; 2343; 2407; 3702
BsmI	GAATGCN!	1	1506
BsmI	G!CATTC	1	1599
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	6	757; 1048; 2179; 2597; 3616; 3744
BsmBI	CGTCTCN!	0	

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BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1246; 2906; 3438; 3547
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2271; 2343; 2407; 3702
BsnI	GG!CC	31	84; 277; 629; 689; 709; 884; 1013; 1076; 1099; 1130; 1142; 1196; 1276; 1385; 1721; 1863; 2518; 2524; 2533; 2576; 2663; 2837; 3228; 3255; 3764; 3821; 3854; 4199; 4633; 4651; 4662
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	757; 1048; 3744
BsoBI	C!YCGRG	3	877; 1343; 1386
Bsp13I	T!CCGGA	1	1330
Bsp19I	C!CATGG	4	360; 611; 2484; 3187
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3558
Bsp24I	!NNNNNNCCANNNNNGTC	2	3979; 4157
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	4011; 4189
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3526
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1357; 3437
Bsp120I	G!GGCCC	1	1383
Bsp143I	!GATC	23	585; 806; 1187; 1339; 1390; 1399; 1412; 2592; 2596; 2615; 2926; 3004; 3085; 3094; 3172; 3548; 3564; 3923; 3935; 4013; 4021; 4032; 4107
Bsp1286I	GDGCH!C	13	752; 824; 1295; 1350; 1387; 1946; 2701; 2794; 2868; 3058; 3120; 3830; 4363
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 632; 834; 897; 975; 1118; 1176; 1296; 1379; 2070; 2073; 2087; 2177; 2425; 2437; 2446; 2458; 2468; 2479; 2525; 2664; 2727; 3229; 3274; 3340; 3366; 3491; 3494; 3642; 3774; 4081; 4225; 4721
BspACI	G!CGG	26	370; 403; 528; 626; 1127; 1381; 2015; 2042; 2130; 2240; 2821; 2885; 2986; 2989; 3269; 3324; 3422; 3560; 3707; 3847; 4090; 4335; 4456; 4475; 4602; 4630
BspCNI	CTCAGNNNNNNNN!	2	1349; 3880
BspCNI	!NNNNNNNCTGAG	6	878; 2227; 2529; 3410; 3982; 4391
BspDI	AT!CGAT	1	2595
BspD6I	GACTCNNNN!	5	418; 1342; 1828; 3434; 4311
BspD6I	!NNNNNGAGTC	2	1791; 2223
BspEI	T!CCGGA	1	1330
BspFNI	CG!CG	20	60; 1025; 1178; 1250; 1268; 1381; 1643; 1679; 2055; 2075; 2099; 2130; 2821; 3122; 3560; 3644; 3707; 3776; 4049; 4630
BspHI	T!CATGA	2	2181; 3953
BspLI	GGN!NCC	21	467; 630; 924; 1014; 1077; 1377; 1385; 1392; 1910; 1931; 1943; 2134; 2295; 2367; 2756; 2791; 3639; 3718; 3763; 4606; 4645
BspMI	ACCTGCNNNN!	3	970; 3023; 3473
BspMI	!NNNNNNNGCAGGT	1	2642
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	1398; 1407; 2623; 2934; 3180; 3572; 3931; 4029; 4115
BspPI	!NNNNNGATCC	8	580; 801; 1182; 1385; 2999; 3543; 3930; 4027
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	2	3099; 3309
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1357; 3437
BspT107I	G!GYRCC	6	465; 922; 1375; 1908; 2754; 2789
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	757; 1048; 3744
BsrI	ACTGGN!	3	2699; 2900; 4146
BsrI	C!CAGT	6	295; 810; 1784; 2462; 4258; 4271
BsrBI	CCG!CTC	2	2179; 3368
BsrBI	GAG!CGG	2	2015; 3422
BsrDI	GCAATGNN!	1	2988
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	6	600; 766; 1972; 3074; 3255; 3538
BsrGI	T!GTACA	0	
BsrSI	ACTGGN!	3	2699; 2900; 4146
BsrSI	C!CAGT	6	295; 810; 1784; 2462; 4258; 4271

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssAI	R!CCGGY	6	600; 766; 1972; 3074; 3255; 3538
BssECI	C!CNNGG	23	360; 611; 732; 863; 878; 1071; 1191; 1379; 1386; 2289; 2361; 2484; 2519; 2528; 2577; 2918; 3187; 3592; 3719; 3720; 3822; 3823; 4513
BssHII	G!CGCGC	0	
BssKI	!CCNGG	19	88; 281; 863; 1191; 1385; 1386; 2289; 2344; 2361; 2757; 2917; 3140; 3530; 3719; 3822; 4294; 4512; 4525; 4646
BssMI	!GATC	23	585; 806; 1187; 1339; 1390; 1399; 1412; 2592; 2596; 2615; 2926; 3004; 3085; 3094; 3172; 3548; 3564; 3923; 3935; 4013; 4021; 4032; 4107
BssNI	GR!CGYC	7	122; 175; 258; 444; 2755; 3457; 3536
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3473; 4500
BssSI	C!TCGTG	1	3347
BssT1I	C!CWVGG	6	360; 611; 2484; 2577; 3187; 3592
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2222; 3099; 3309
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	7	122; 175; 258; 444; 2755; 3457; 3536
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	2322; 2394; 3856
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	2	1357; 3437
Bst2BI	C!ACGAG	2	3473; 4500
Bst2BI	C!TCGTG	1	3347
BstBAI	YAC!GTR	4	340; 1257; 1871; 3059
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 903; 984; 1375; 1846; 3135; 3251; 3359; 3682; 4173; 4643; 4714
BstC8I	GCN!NGC	37	86; 279; 593; 752; 772; 820; 834; 1093; 1097; 1264; 1291; 1383; 1974; 2017; 2031; 2304; 2323; 2376; 2395; 2649; 2835; 3054; 3120; 3126; 3154; 3158; 3199; 3203; 3257; 3540; 3727; 3774; 3830; 3852; 4063; 4623; 4660
BstDEI	C!TNAG	8	886; 1336; 2235; 2537; 3418; 3867; 3990; 4399
BstDSI	C!CRYGG	7	360; 611; 732; 1071; 1379; 2484; 3187
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2615; 3072; 3097; 3551
BstF5I	!CATCC	2	1040; 2441
BstFNI	CG!CG	20	60; 1025; 1178; 1250; 1268; 1381; 1643; 1679; 2055; 2075; 2099; 2130; 2821; 3122; 3560; 3644; 3707; 3776; 4049; 4630
BstH2I	RGCGC!Y	6	598; 1310; 2022; 2030; 2758; 4433
BstHHI	GCG!C	28	597; 908; 1025; 1091; 1180; 1250; 1268; 1309; 2021; 2029; 2055; 2077; 2086; 2099; 2130; 2749; 2757; 2821; 2858; 3124; 3384; 3560; 3646; 4049; 4158; 4332; 4432; 4499
BstKTI	GAT!C	23	588; 809; 1190; 1342; 1393; 1402; 1415; 2595; 2599; 2618; 2929; 3007; 3088; 3097; 3175; 3551; 3567; 3926; 3938; 4016; 4024; 4035; 4110
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	6	757; 1048; 2179; 2597; 3616; 3744
BstMBI	!GATC	23	585; 806; 1187; 1339; 1390; 1399; 1412; 2592; 2596; 2615; 2926; 3004; 3085; 3094; 3172; 3548; 3564; 3923; 3935; 4013; 4021; 4032; 4107
BstMCI	CGRY!CG	4	605; 897; 2664; 4339
BstMWI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 767; 896; 971; 1029; 1247; 1295; 1982; 2012; 2039; 2081; 2322; 2394; 2445; 2524; 2746; 2830; 2853; 2992; 3115; 3198; 3465; 3652; 3856; 4055; 4627
BstNI	CC!WGG	12	90; 283; 865; 2291; 2346; 2363; 3142; 3721; 3824; 4514; 4527; 4648
BstNSI	RCATG!Y	5	1065; 2325; 2397; 3160; 4677
BstOI	CC!WGG	12	90; 283; 865; 2291; 2346; 2363; 3142; 3721; 3824; 4514; 4527; 4648
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	19	88; 281; 863; 1191; 1385; 1386; 2289; 2344; 2361; 2757; 2917; 3140; 3530; 3719; 3822; 4294; 4512; 4525; 4646
BstSFI	C!TRYAG	4	1364; 2090; 4217; 4408

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSLI	GKGCMIIC	6	752; 1295; 1387; 2701; 2794; 4363
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	20	60; 1025; 1178; 1250; 1268; 1381; 1643; 1679; 2055; 2075; 2099; 2130; 2821; 3122; 3560; 3644; 3707; 3776; 4049; 4630
Bst2UI	CC!WGG	12	90; 283; 865; 2291; 2346; 2363; 3142; 3721; 3824; 4514; 4527; 4648
BstV1I	GCAGCNNNNNNNN!	8	728; 1184; 1543; 2828; 2870; 3391; 3844; 4344
BstV1I	!NNNNNNNNNNNGCTGC	7	761; 2037; 2702; 2886; 2979; 4045; 4251
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	12	585; 1187; 1339; 1390; 1399; 2926; 3172; 3564; 3923; 3935; 4021; 4032
BstYI	R!GATCY	12	585; 1187; 1339; 1390; 1399; 2926; 3172; 3564; 3923; 3935; 4021; 4032
BstZI	C!GGCCG	1	2661
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2184; 2974; 4475
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2595
Bsu36I	CC!TNAGG	2	2235; 3867
BsuRI	GG!CC	31	84; 277; 629; 689; 709; 884; 1013; 1076; 1099; 1130; 1142; 1196; 1276; 1385; 1721; 1863; 2518; 2524; 2533; 2576; 2663; 2837; 3228; 3255; 3764; 3821; 3854; 4199; 4633; 4651; 4662
BsuTUI	AT!CGAT	1	2595
BtgI	C!CRYGG	7	360; 611; 732; 1071; 1379; 2484; 3187
BtgZI	GCGATGNNNNNNNNNN!	2	1872; 3207
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3026; 3370
BthCI	GCNG!C	36	629; 719; 722; 777; 977; 1130; 1175; 1178; 1534; 2053; 2075; 2089; 2527; 2666; 2718; 2729; 2819; 2824; 2861; 2902; 2989; 2992; 2995; 3231; 3327; 3368; 3382; 3496; 3835; 3850; 4061; 4267; 4270; 4335; 4478; 4633
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1594
BtsCI	GGATGNN!	4	2615; 3072; 3097; 3551
BtsCI	!CATCC	2	1040; 2441
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	970; 3023; 3473
BveI	!NNNNNNNNNGCAGGT	1	2642
Cac8I	GCN!NGC	37	86; 279; 593; 752; 772; 820; 834; 1093; 1097; 1264; 1291; 1383; 1974; 2017; 2031; 2304; 2323; 2376; 2395; 2649; 2835; 3054; 3120; 3126; 3154; 3158; 3199; 3203; 3257; 3540; 3727; 3774; 3830; 3852; 4063; 4623; 4660
CaiI	CAGNNN!CTG	2	3856; 4264
CciI	T!CATGA	2	2181; 3953
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	11	352; 672; 705; 894; 1107; 1185; 1314; 3044; 3049; 3247; 3388
CdiI	C!GATG	2	1858; 3193
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	4627
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2416; 2458
CelII	GC!TNAGC	0	
CfoI	GCG!C	28	597; 908; 1025; 1091; 1180; 1250; 1268; 1309; 2021; 2029; 2055; 2077; 2086; 2099; 2130; 2749; 2757; 2821; 2858; 3124; 3384; 3560; 3646; 4049; 4158; 4332; 4432; 4499
CfrI	Y!GGCCR	6	687; 707; 2661; 2835; 3226; 3253
Cfr9I	C!CCGGG	1	1386
Cfr10I	R!CCGGY	6	600; 766; 1972; 3074; 3255; 3538
Cfr13I	G!GNCC	15	83; 276; 628; 882; 1012; 1075; 1140; 1195; 1384; 1862; 3271; 3716; 3762; 3820; 3853
Cfr42I	CCGC!GG	1	1382
ChaI	GATC!	23	589; 810; 1191; 1343; 1394; 1403; 1416; 2596; 2600; 2619; 2930; 3008; 3089; 3098; 3176; 3552; 3568; 3927; 3939; 4017; 4025; 4036; 4111
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	6	633; 1223; 2572; 4012; 4112; 4190
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2239; 2334; 3526; 4076; 4631

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2273; 2368; 3560; 4110; 4665
CjeI	!NNNNNNNNCCANNNNNNGT	6	599; 1189; 2538; 3978; 4078; 4156
CjePI	CCANNNNNNTCANNNNNNNNNNNN!	2	4012; 4190
CjePI	!NNNNNNNGANNNNNNNTGG	3	257; 3526; 4125
CjePI	GANNNNNTGGNNNNNNNNNNNN!	3	290; 3559; 4158
CjePI	!NNNNNNCCANNNNNNTC	2	3979; 4157
Clal	AT!CGAT	1	2595
CpoI	CG!GWCCG	1	3271
CseI	GACGCNNNNN!	3	526; 3465; 3544
CseI	!NNNNNNNNNGCGTC	3	2088; 3983; 4561
CsiI	A!CCWGGT	1	2344
CspI	CG!GWCCG	1	3271
Csp6I	G!TAC	9	218; 243; 298; 331; 382; 539; 813; 1376; 3060
Csp45I	TT!CGAA	2	1357; 3437
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	2035; 3644
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	21	301; 361; 612; 651; 780; 927; 1020; 1062; 2182; 2322; 2394; 2485; 2626; 2971; 3157; 3188; 3214; 3570; 3954; 4674; 4725
CviJI	RG!CY	99	42; 84; 93; 277; 566; 629; 689; 709; 774; 785; 792; 822; 854; 884; 935; 951; 974; 998; 1005; 1013; 1032; 1076; 1095; 1099; 1109; 1130; 1142; 1175; 1196; 1276; 1348; 1354; 1385; 1424; 1534; 1701; 1721; 1863; 1944; 1958; 1972; 2253; 2294; 2366; 2489; 2518; 2524; 2533; 2541; 2564; 2576; 2582; 2663; 2680; 2688; 2715; 2740; 2824; 2833; 2837; 2861; 2899; 2975; 2992; 3011; 3074; 3118; 3128; 3145; 3228; 3255; 3259; 3296; 3319; 3335; 3515; 3542; 3603; 3725; 3764; 3821; 3828; 3835; 3854; 3865; 4116; 4145; 4188; 4199; 4264; 4343; 4368; 4373; 4419; 4509; 4607; 4633; 4651; 4662
CviKI-1	RG!CY	99	42; 84; 93; 277; 566; 629; 689; 709; 774; 785; 792; 822; 854; 884; 935; 951; 974; 998; 1005; 1013; 1032; 1076; 1095; 1099; 1109; 1130; 1142; 1175; 1196; 1276; 1348; 1354; 1385; 1424; 1534; 1701; 1721; 1863; 1944; 1958; 1972; 2253; 2294; 2366; 2489; 2518; 2524; 2533; 2541; 2564; 2576; 2582; 2663; 2680; 2688; 2715; 2740; 2824; 2833; 2837; 2861; 2899; 2975; 2992; 3011; 3074; 3118; 3128; 3145; 3228; 3255; 3259; 3296; 3319; 3335; 3515; 3542; 3603; 3725; 3764; 3821; 3828; 3835; 3854; 3865; 4116; 4145; 4188; 4199; 4264; 4343; 4368; 4373; 4419; 4509; 4607; 4633; 4651; 4662
CviQI	G!TAC	9	218; 243; 298; 331; 382; 539; 813; 1376; 3060
DdeI	C!TNAG	8	886; 1336; 2235; 2537; 3418; 3867; 3990; 4399
DinI	GGC!GCC	1	2756
DpnI	GA!TC	23	587; 808; 1189; 1341; 1392; 1401; 1414; 2594; 2598; 2617; 2928; 3006; 3087; 3096; 3174; 3550; 3566; 3925; 3937; 4015; 4023; 4034; 4109
DpnII	!GATC	23	585; 806; 1187; 1339; 1390; 1399; 1412; 2592; 2596; 2615; 2926; 3004; 3085; 3094; 3172; 3548; 3564; 3923; 3935; 4013; 4021; 4032; 4107
DraI	TTT!AAA	3	1457; 3899; 3918
DraII	RG!GNCCY	2	882; 3853
DraIII	CACNN!GTG	4	756; 1206; 1290; 1871
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	266; 4235
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTT	0	
DrdI	GACNNN!NNGTC	3	1826; 2782; 4571
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1826; 2782; 4571
EaeI	Y!GGCCR	6	687; 707; 2661; 2835; 3226; 3253
EagI	C!GGCCG	1	2661
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2222; 3099; 3309
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EarI	!NNNNGAAGAG	3	2222; 3099; 3309
EciI	GGCGGANNNNNNNNNN!	4	2255; 3284; 4471; 4617
EciI	!NNNNNNNNNTCCGCC	4	496; 2426; 2447; 2468
Ecl136II	GAG!CTC	1	1348
EclXI	C!GGCCG	1	2661
Eco24I	GRGCY!C	6	824; 1350; 1387; 1946; 3120; 3830
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	3	757; 1048; 3744
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3271; 3716
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	2661
Eco57I	CTGAAGNNNNNNNNNNNNNN!	2	2901; 3333
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4131
Eco72I	CAC!GTG	1	1257
Eco81I	CC!TNAGG	2	2235; 3867
Eco88I	C!YCGRG	3	877; 1343; 1386
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWGGG	6	360; 611; 2484; 2577; 3187; 3592
Eco147I	AGG!CCT	1	2576
EcoHI	!CCSGG	7	1191; 1385; 1386; 2757; 2917; 3530; 4294
EcoICRI	GAG!CTC	1	1348
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	3	2901; 3333; 3595
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	2	3538; 4131
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	882; 3853
EcoRI	G!AATTC	1	1359
EcoRII	!CCWGG	12	88; 281; 863; 2289; 2344; 2361; 3140; 3719; 3822; 4512; 4525; 4646
EcoRV	GAT!ATC	0	
EcoT14I	C!CWGGG	6	360; 611; 2484; 2577; 3187; 3592
EcoT22I	ATGCA!T	3	2327; 2399; 4730
EcoT38I	GRGCY!C	6	824; 1350; 1387; 1946; 3120; 3830
Eco53kI	GAG!CTC	1	1348
EgeI	GGC!GCC	1	2756
EheI	GGC!GCC	1	2756
ErhI	C!CWGGG	6	360; 611; 2484; 2577; 3187; 3592
EsaBC3I	TC!GA	19	672; 894; 912; 1149; 1185; 1345; 1358; 1371; 1905; 2596; 2869; 3025; 3049; 3085; 3247; 3438; 3483; 3738; 4576
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	21	304; 364; 615; 654; 783; 930; 1023; 1065; 2185; 2325; 2397; 2488; 2629; 2974; 3160; 3191; 3217; 3573; 3957; 4677; 4728
Fail	YA!TR	57	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 652; 781; 928; 1021; 1063; 1417; 1427; 1493; 1538; 1743; 2171; 2183; 2314; 2323; 2386; 2395; 2419; 2486; 2510; 2627; 2691; 2972; 2997; 3158; 3189; 3215; 3287; 3503; 3571; 3649; 3701; 3862; 3879; 3881; 3883; 3955; 4233; 4422; 4538; 4611; 4675; 4726
FaII	AAGNNNNNCTTNNNNNNNNNNNN!	2	1179; 3095
FaII	!NNNNNNNNAAGNNNNNCTT	2	1147; 3063
FaqI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1246; 2906; 3438; 3547
FaqI	!NNNNNNNNNNNNNGTCCC	4	2271; 2343; 2407; 3702
FatI	!CATG	21	300; 360; 611; 650; 779; 926; 1019; 1061; 2181; 2321; 2393; 2484; 2625; 2970; 3156; 3187; 3213; 3569; 3953; 4673; 4724
FauI	CCCGCNNNN!	11	93; 119; 286; 639; 841; 1303; 2077; 2432; 2453; 3649; 3781
FauI	!NNNNNNNGCGGG	6	1374; 2008; 2878; 3415; 3553; 3700
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	1412
FblI	GT!MKAC	1	1370
FmuI	GGNC!C	15	86; 279; 631; 885; 1015; 1078; 1143; 1198; 1387; 1865; 3274; 3719; 3765; 3823; 3856

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	36	627; 717; 720; 775; 975; 1128; 1173; 1176; 1532; 2051; 2073; 2087; 2525; 2664; 2716; 2727; 2817; 2822; 2859; 2900; 2987; 2990; 2993; 3229; 3325; 3366; 3380; 3494; 3833; 3848; 4059; 4265; 4268; 4333; 4476; 4631
FokI	GGATGNNNNNNNNNN!	4	2622; 3079; 3104; 3558
FokI	!NNNNNNNNNNNNNNCATCC	2	1027; 2428
FriOI	GRGCY!C	6	824; 1350; 1387; 1946; 3120; 3830
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2857
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1403; 1604; 2022; 2578; 3593; 3927; 4180
FspEI	CCNNNNNNNNNNNN!	165	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 643; 669; 703; 723; 742; 768; 791; 806; 823; 837; 853; 868; 889; 910; 939; 957; 975; 996; 1015; 1029; 1057; 1071; 1090; 1105; 1128; 1144; 1176; 1194; 1210; 1224; 1251; 1267; 1290; 1307; 1323; 1344; 1392; 1407; 1438; 1477; 1491; 1632; 1727; 1751; 1774; 1797; 1815; 1837; 1858; 1877; 1896; 1925; 1946; 1960; 1986; 2074; 2100; 2149; 2190; 2208; 2247; 2263; 2301; 2358; 2373; 2430; 2450; 2464; 2481; 2495; 2532; 2547; 2590; 2673; 2740; 2771; 2791; 2806; 2851; 2865; 2931; 2945; 2964; 2980; 3021; 3041; 3088; 3138; 3154; 3174; 3199; 3219; 3242; 3269; 3287; 3313; 3353; 3379; 3403; 3459; 3473; 3501; 3544; 3565; 3600; 3644; 3732; 3756; 3778; 3798; 3814; 3835; 3849; 3868; 3952; 3972; 4000; 4015; 4049; 4091; 4118; 4133; 4178; 4202; 4216; 4238; 4264; 4284; 4308; 4334; 4382; 4401; 4420; 4446; 4481; 4526; 4556; 4570; 4621; 4635; 4660; 4676; 4697; 4726
FspEI	!NNNNNNNNNNNNNNNGG	127	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 607; 659; 691; 719; 752; 771; 800; 830; 850; 905; 937; 980; 1018; 1058; 1081; 1109; 1154; 1178; 1215; 1255; 1298; 1316; 1358; 1382; 1426; 1526; 1595; 1703; 1752; 1774; 1802; 1838; 1883; 1912; 1948; 1967; 1995; 2015; 2078; 2101; 2209; 2241; 2259; 2288; 2331; 2360; 2471; 2500; 2543; 2564; 2592; 2625; 2645; 2670; 2697; 2722; 2744; 2772; 2798; 2819; 2870; 2891; 2909; 2957; 2993; 3049; 3074; 3098; 3127; 3150; 3174; 3200; 3222; 3241; 3266; 3306; 3342; 3407; 3492; 3516; 3545; 3579; 3600; 3620; 3665; 3692; 3711; 3744; 3796; 3827; 3854; 3906; 4004; 4075; 4120; 4181; 4246; 4280; 4306; 4324; 4360; 4430; 4453; 4475; 4499; 4532; 4580; 4615; 4633; 4690
Fsp4HI	GC!NGC	36	627; 717; 720; 775; 975; 1128; 1173; 1176; 1532; 2051; 2073; 2087; 2525; 2664; 2716; 2727; 2817; 2822; 2859; 2900; 2987; 2990; 2993; 3229; 3325; 3366; 3380; 3494; 3833; 3848; 4059; 4265; 4268; 4333; 4476; 4631
GdiII	C!GGCCR	2	687; 2661
GdiII	Y!GGCCG	4	707; 2661; 3226; 3253
GlaI	GC!GC	28	596; 907; 1024; 1090; 1179; 1249; 1267; 1308; 2020; 2028; 2054; 2076; 2085; 2098; 2129; 2748; 2756; 2820; 2857; 3123; 3383; 3559; 3645; 4048; 4157; 4331; 4431; 4498
GluI	GC!NGC	36	627; 717; 720; 775; 975; 1128; 1173; 1176; 1532; 2051; 2073; 2087; 2525; 2664; 2716; 2727; 2817; 2822; 2859; 2900; 2987; 2990; 2993; 3229; 3325; 3366; 3380; 3494; 3833; 3848; 4059; 4265; 4268; 4333; 4476; 4631
GsaI	CCCAG!C	3	2302; 2374; 4373
GsaI	GCTGG!G	1	3263
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3595
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3538
HaeI	WGG!CCW	7	1099; 1276; 2576; 2837; 4199; 4651; 4662
HaeII	RGCGC!Y	6	598; 1310; 2022; 2030; 2758; 4433
HaeIII	GG!CC	31	84; 277; 629; 689; 709; 884; 1013; 1076; 1099; 1130; 1142; 1196; 1276; 1385; 1721; 1863; 2518; 2524; 2533; 2576; 2663; 2837; 3228; 3255; 3764; 3821; 3854; 4199; 4633; 4651; 4662
HaeIV	GAYNNNNNNRTCNNNNNNNNNNNNNN!	2	1430; 2951
HaeIV	!NNNNNNNNNGAYNNNNNNRTCC	2	1396; 2917
HaeIV	GAYNNNNNNRTCNNNNNNNNNNNNNN!	2	1429; 2950
HaeIV	!NNNNNNNGAYNNNNNNRTCC	2	1398; 2919
HapII	C!CGG	22	601; 767; 1193; 1331; 1387; 1397; 1973; 2660; 2737; 2759; 2787; 2918; 3008; 3075; 3256; 3531; 3539; 3631; 4105; 4295; 4321; 4468
HgaI	GACGCNNNNN!	3	526; 3465; 3544

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HgaI	!NNNNNNNNNGCGTC	3	2088; 3983; 4561
HhaI	GCG!C	28	597; 908; 1025; 1091; 1180; 1250; 1268; 1309; 2021; 2029; 2055; 2077; 2086; 2099; 2130; 2749; 2757; 2821; 2858; 3124; 3384; 3560; 3646; 4049; 4158; 4332; 4432; 4499
Hin1I	GR!CGYC	7	122; 175; 258; 444; 2755; 3457; 3536
Hin1III	CATG!	21	304; 364; 615; 654; 783; 930; 1023; 1065; 2185; 2325; 2397; 2488; 2629; 2974; 3160; 3191; 3217; 3573; 3957; 4677; 4728
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1429; 2950
Hin4I	!NNNNNNNGABNNNNNRTC	3	1397; 2918; 2948
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1429; 2950; 2980
Hin4I	!NNNNNNNGAYNNNNNVTC	2	1397; 2918
Hin6I	G!CGC	28	595; 906; 1023; 1089; 1178; 1248; 1266; 1307; 2019; 2027; 2053; 2075; 2084; 2097; 2128; 2747; 2755; 2819; 2856; 3122; 3382; 3558; 3644; 4047; 4156; 4330; 4430; 4497
HinP1I	G!CGC	28	595; 906; 1023; 1089; 1178; 1248; 1266; 1307; 2019; 2027; 2053; 2075; 2084; 2097; 2128; 2747; 2755; 2819; 2856; 3122; 3382; 3558; 3644; 4047; 4156; 4330; 4430; 4497
HincII	GTY!RAC	2	1371; 1518
HindII	GTY!RAC	2	1371; 1518
HindIII	A!AGCTT	1	1352
HinfI	G!ANTC	13	410; 1327; 1334; 1798; 1820; 2230; 3240; 3374; 3426; 3484; 3521; 4303; 4699
HpaI	GTT!AAC	1	1518
HpaII	C!CGG	22	601; 767; 1193; 1331; 1387; 1397; 1973; 2660; 2737; 2759; 2787; 2918; 3008; 3075; 3256; 3531; 3539; 3631; 4105; 4295; 4321; 4468
HphI	GGTGANNNNNNN!	5	376; 693; 981; 3826; 3942
HphI	!NNNNNNNTCACC	7	690; 972; 1104; 1209; 1293; 1872; 2933
Hpy8I	GTN!NAC	14	201; 539; 577; 684; 698; 750; 987; 1038; 1371; 1518; 1802; 1819; 1874; 4361
Hpy99I	CGWCG!	16	676; 715; 847; 922; 997; 1012; 1126; 1324; 1375; 2845; 2873; 3167; 3182; 3459; 3844; 4577
Hpy166II	GTN!NAC	14	201; 539; 577; 684; 698; 750; 987; 1038; 1371; 1518; 1802; 1819; 1874; 4361
Hpy188I	TCN!GA	13	585; 621; 1339; 1929; 2538; 2722; 3066; 3419; 3520; 3999; 4133; 4486; 4564
Hpy188III	TC!NNGA	26	642; 912; 1185; 1206; 1331; 1343; 1403; 2182; 2234; 2547; 2600; 2773; 3089; 3098; 3181; 3237; 3281; 3371; 3404; 3473; 3954; 4028; 4111; 4209; 4307; 4441
HpyAV	CCTTCNNNNNN!	7	666; 834; 1110; 1173; 3400; 3507; 4186
HpyAV	!NNNNNGAAGG	7	1988; 2883; 3612; 3628; 3811; 4128; 4438
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 903; 984; 1375; 1846; 3135; 3251; 3359; 3682; 4173; 4643; 4714
HpyCH4IV	A!CGT	16	122; 134; 175; 258; 339; 444; 746; 1256; 1815; 1827; 1870; 1980; 2871; 3058; 3839; 3972
HpyCH4V	TG!CA	18	750; 1366; 1504; 1531; 1599; 2316; 2325; 2388; 2397; 2512; 2588; 2647; 2806; 2981; 2995; 4065; 4361; 4728
HpyF3I	C!TNAG	8	886; 1336; 2235; 2537; 3418; 3867; 3990; 4399
HpyF10VI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 767; 896; 971; 1029; 1247; 1295; 1982; 2012; 2039; 2081; 2322; 2394; 2445; 2524; 2746; 2830; 2853; 2992; 3115; 3198; 3465; 3652; 3856; 4055; 4627
Hsp92I	GR!CGYC	7	122; 175; 258; 444; 2755; 3457; 3536
Hsp92II	CATG!	21	304; 364; 615; 654; 783; 930; 1023; 1065; 2185; 2325; 2397; 2488; 2629; 2974; 3160; 3191; 3217; 3573; 3957; 4677; 4728
HspAI	G!CGC	28	595; 906; 1023; 1089; 1178; 1248; 1266; 1307; 2019; 2027; 2053; 2075; 2084; 2097; 2128; 2747; 2755; 2819; 2856; 3122; 3382; 3558; 3644; 4047; 4156; 4330; 4430; 4497
KasI	G!GCGCC	1	2754
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	1379
Kpn2I	T!CCGGA	1	1330
KspI	CCGC!GG	1	1382
Ksp22I	T!GATCA	1	1412
KspAI	GTT!AAC	1	1518
Kzo9I	!GATC	23	585; 806; 1187; 1339; 1390; 1399; 1412; 2592; 2596; 2615; 2926; 3004; 3085; 3094; 3172; 3548; 3564; 3923; 3935; 4013; 4021; 4032; 4107
LguI	GCTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LguI	!NNNNGAAGAGC	2	3099; 3309
LpnI	RGC!GCGY	6	596; 1308; 2020; 2028; 2756; 4431
LpnPI	CCDGNNNNNNNNN!	66	102; 295; 614; 649; 703; 780; 817; 877; 898; 945; 975; 1015; 1042; 1057; 1105; 1144; 1206; 1251; 1276; 1317; 1344; 1400; 1492; 1797; 1986; 2209; 2247; 2263; 2303; 2358; 2375; 2475; 2560; 2673; 2750; 2772; 2795; 2931; 2945; 2964; 3021; 3088; 3138; 3154; 3211; 3269; 3478; 3544; 3568; 3644; 3733; 3836; 3869; 4100; 4118; 4264; 4284; 4308; 4334; 4383; 4481; 4526; 4556; 4635; 4660; 4697
LpnPI	!NNNNNNNNNNNNNCHGG	54	75; 268; 552; 586; 752; 771; 850; 937; 1018; 1081; 1178; 1316; 1372; 1838; 1958; 2015; 2078; 2276; 2288; 2348; 2360; 2592; 2637; 2680; 2722; 2744; 2772; 2819; 2881; 2903; 2993; 3060; 3083; 3127; 3222; 3241; 3266; 3415; 3516; 3559; 3616; 3706; 3809; 3836; 3854; 4090; 4127; 4280; 4306; 4446; 4464; 4499; 4580; 4633
Lsp1109I	GCAGCNNNNNNNN!	8	728; 1184; 1543; 2828; 2870; 3391; 3844; 4344
Lsp1109I	!NNNNNNNNNNNNNGCTGC	7	761; 2037; 2702; 2886; 2979; 4045; 4251
LweI	GCATCNNNNN!	10	857; 899; 986; 1307; 1571; 2334; 2406; 3054; 3118; 3393
LweI	!NNNNNNNNNGATGC	5	357; 2713; 2968; 3184; 4576
MabI	A!CCWGGT	1	2344
MaeI	C!TAG	8	592; 1403; 1604; 2022; 2578; 3593; 3927; 4180
MaeII	A!CGT	16	122; 134; 175; 258; 339; 444; 746; 1256; 1815; 1827; 1870; 1980; 2871; 3058; 3839; 3972
MaeIII	!GTNAC	13	61; 148; 497; 1206; 1543; 2044; 2056; 2875; 3181; 3871; 4137; 4253; 4316
MalI	GA!TC	23	587; 808; 1189; 1341; 1392; 1401; 1414; 2594; 2598; 2617; 2928; 3006; 3087; 3096; 3174; 3550; 3566; 3925; 3937; 4015; 4023; 4034; 4109
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2179; 3368
MbiI	GAG!CGG	2	2015; 3422
MboI	!GATC	23	585; 806; 1187; 1339; 1390; 1399; 1412; 2592; 2596; 2615; 2926; 3004; 3085; 3094; 3172; 3548; 3564; 3923; 3935; 4013; 4021; 4032; 4107
MboII	GAAGANNNNNNNN!	5	2011; 2239; 3116; 3326; 3945
MboII	!NNNNNNNTCTTC	6	657; 819; 3406; 3573; 3773; 4016
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1505
MflI	R!GATCY	12	585; 1187; 1339; 1390; 1399; 2926; 3172; 3564; 3923; 3935; 4021; 4032
MhlI	GDGCH!C	13	752; 824; 1295; 1350; 1387; 1946; 2701; 2794; 2868; 3058; 3120; 3830; 4363
MisI	TGG!CCA	1	2837
MluI	A!CGCGT	1	1641
MluNI	TGG!CCA	1	2837
MlyI	GAGTCNNNNN!	2	1807; 2239
MlyI	!NNNNNGACTC	5	404; 1328; 1814; 3420; 4297
Mly113I	GG!CGCC	1	2755
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	1	1848
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	4280; 4464
MnII	CCTCNNNNNNN!	7	1474; 2538; 3356; 3562; 3876; 4246; 4570
MnII	!NNNNNGAGG	19	541; 615; 672; 873; 1223; 1263; 1317; 1434; 1899; 2230; 2508; 2551; 2566; 2606; 2670; 2806; 3163; 3593; 4496
Mph1103I	ATGCA!T	3	2327; 2399; 4730
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1330
MroNI	G!CCGGC	3	1972; 3255; 3538
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	1	2837
MseI	T!TAA	15	7; 1456; 1517; 1638; 1659; 1670; 1682; 1693; 1710; 1808; 2079; 3898; 3912; 3917; 3969
MsiI	CAYNN!NNRTG	5	365; 703; 964; 982; 3192
MspI	C!CGG	22	601; 767; 1193; 1331; 1387; 1397; 1973; 2660; 2737; 2759; 2787; 2918; 3008; 3075; 3256; 3531; 3539; 3631; 4105; 4295; 4321; 4468
Msp20I	TGG!CCA	1	2837

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspAII	CMG!CKG	7	1032; 1095; 1381; 2253; 2861; 4090; 4335
MspCI	C!TTAAG	0	
MspJI	CNNRNNNNNNNNN!	240	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; 632; 648; 663; 690; 703; 717; 735; 759; 774; 790; 805; 822; 845; 875; 889; 910; 924; 939; 952; 974; 988; 1014; 1027; 1041; 1056; 1070; 1084; 1098; 1133; 1167; 1189; 1204; 1218; 1232; 1250; 1267; 1281; 1295; 1309; 1335; 1348; 1361; 1392; 1409; 1423; 1438; 1462; 1479; 1492; 1533; 1547; 1560; 1578; 1616; 1631; 1649; 1690; 1714; 1734; 1752; 1773; 1796; 1828; 1843; 1865; 1883; 1896; 1917; 1934; 1947; 1960; 1976; 1989; 2019; 2034; 2059; 2077; 2090; 2105; 2129; 2143; 2167; 2192; 2208; 2246; 2262; 2301; 2315; 2329; 2357; 2373; 2387; 2401; 2430; 2443; 2464; 2473; 2495; 2525; 2541; 2559; 2589; 2612; 2636; 2660; 2679; 2707; 2733; 2749; 2762; 2785; 2799; 2819; 2832; 2846; 2865; 2879; 2892; 2908; 2923; 2936; 2952; 2967; 2983; 3008; 3027; 3043; 3056; 3069; 3087; 3101; 3115; 3131; 3153; 3169; 3188; 3210; 3226; 3249; 3268; 3282; 3298; 3312; 3332; 3348; 3361; 3383; 3416; 3430; 3450; 3463; 3477; 3531; 3544; 3567; 3580; 3599; 3616; 3643; 3679; 3712; 3731; 3756; 3777; 3804; 3817; 3834; 3848; 3863; 3879; 3939; 3964; 3980; 4002; 4015; 4029; 4060; 4074; 4099; 4117; 4132; 4145; 4164; 4177; 4192; 4221; 4240; 4258; 4283; 4298; 4317; 4333; 4352; 4370; 4386; 4400; 4419; 4446; 4469; 4491; 4510; 4525; 4538; 4555; 4575; 4602; 4615; 4634; 4659; 4682; 4696; 4709; 4726
MspJI	!NNNNNNNNNNNNYNG	202	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 598; 617; 637; 664; 691; 709; 733; 753; 772; 790; 815; 837; 863; 889; 913; 932; 950; 970; 988; 1006; 1030; 1048; 1072; 1092; 1117; 1141; 1163; 1190; 1207; 1224; 1241; 1265; 1290; 1309; 1329; 1349; 1366; 1383; 1407; 1436; 1465; 1507; 1590; 1628; 1652; 1675; 1704; 1748; 1770; 1802; 1838; 1855; 1876; 1913; 1933; 1950; 1967; 2002; 2020; 2038; 2055; 2079; 2101; 2128; 2156; 2182; 2220; 2241; 2258; 2276; 2299; 2320; 2348; 2371; 2392; 2410; 2431; 2448; 2471; 2495; 2515; 2533; 2555; 2586; 2608; 2634; 2653; 2670; 2698; 2717; 2736; 2754; 2772; 2793; 2815; 2839; 2872; 2892; 2910; 2931; 2957; 2984; 3001; 3018; 3035; 3061; 3083; 3105; 3123; 3143; 3162; 3184; 3222; 3242; 3266; 3286; 3306; 3333; 3357; 3390; 3409; 3437; 3459; 3488; 3516; 3541; 3560; 3579; 3600; 3617; 3634; 3665; 3692; 3712; 3735; 3755; 3792; 3809; 3828; 3854; 3874; 3913; 3940; 3959; 3977; 4014; 4032; 4073; 4091; 4117; 4134; 4166; 4195; 4223; 4244; 4267; 4286; 4307; 4325; 4342; 4360; 4386; 4407; 4427; 4447; 4465; 4486; 4512; 4529; 4548; 4567; 4596; 4615; 4633; 4652; 4670; 4688; 4711
MspR9I	CC!NGG	19	90; 283; 865; 1193; 1387; 1388; 2291; 2346; 2363; 2759; 2919; 3142; 3532; 3721; 3824; 4296; 4514; 4527; 4648
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1505
MvaI	CC!WGG	12	90; 283; 865; 2291; 2346; 2363; 3142; 3721; 3824; 4514; 4527; 4648
Mva1269I	GAATGCN!	1	1506
Mva1269I	G!CATTC	1	1599
MvnI	CG!CG	20	60; 1025; 1178; 1250; 1268; 1381; 1643; 1679; 2055; 2075; 2099; 2130; 2821; 3122; 3560; 3644; 3707; 3776; 4049; 4630
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 767; 896; 971; 1029; 1247; 1295; 1982; 2012; 2039; 2081; 2322; 2394; 2445; 2524; 2746; 2830; 2853; 2992; 3115; 3198; 3465; 3652; 3856; 4055; 4627
NaeI	GCC!GGC	3	1974; 3257; 3540
NarI	GG!CGCC	1	2755
NciI	CC!SGG	7	1193; 1387; 1388; 2759; 2919; 3532; 4296
NcoI	C!CATGG	4	360; 611; 2484; 3187
NdeI	CA!TATG	1	234
NdeII	!GATC	23	585; 806; 1187; 1339; 1390; 1399; 1412; 2592; 2596; 2615; 2926; 3004; 3085; 3094; 3172; 3548; 3564; 3923; 3935; 4013; 4021; 4032; 4107
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	1972; 3255; 3538
NheI	G!CTAGC	1	591
NlaIII	CATG!	21	304; 364; 615; 654; 783; 930; 1023; 1065; 2185; 2325; 2397; 2488; 2629; 2974; 3160; 3191; 3217; 3573; 3957; 4677; 4728
NlaIV	GGN!NCC	21	467; 630; 924; 1014; 1077; 1377; 1385; 1392; 1910; 1931; 1943; 2134; 2295; 2367; 2756; 2791; 3639; 3718; 3763; 4606; 4645
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	6	1002; 1239; 1323; 1587; 1902; 3494
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 4566
Nli3877I	CYCGR!G	3	881; 1347; 1390
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2544; 2980
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2509
NmeDI	RCCGGYNNNNNNN!	6	612; 778; 1984; 3086; 3267; 3550
NmeDI	!NNNNNNNNNNNNRCCGGY	6	587; 753; 1959; 3061; 3242; 3525
NmuCI	!GTSAC	4	1206; 2044; 2875; 3181
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2857
NsiI	ATGCA!T	3	2327; 2399; 4730
NspI	RCATG!Y	5	1065; 2325; 2397; 3160; 4677
NspV	TT!CGAA	2	1357; 3437
OliI	CACNN!NNGTG	2	703; 964
PabI	GTA!C	9	220; 245; 300; 333; 384; 541; 815; 1378; 3062
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2325; 2397; 3160
PaeR7I	C!TCGAG	1	1343
PagI	T!CATGA	2	2181; 3953
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3720; 3823
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2576
PciI	A!CATGT	2	1061; 4673
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3099; 3309
PcsI	WCGNNNN!NNNCGW	11	752; 899; 953; 1286; 1319; 3049; 3126; 3369; 3443; 3836; 4354
PctI	GAATGCN!	1	1506
PctI	G!CATTC	1	1599
PdiI	GCC!GGC	3	1974; 3257; 3540
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	6	1327; 3240; 3374; 3484; 3521; 4699
Pfi23II	C!GTACG	0	
PfifI	GACN!NNGTC	1	2873
PfIMI	CCANNNN!NTGG	2	785; 1035
PfoI	T!CCNGGA	1	3530
PhoI	GG!CC	31	84; 277; 629; 689; 709; 884; 1013; 1076; 1099; 1130; 1142; 1196; 1276; 1385; 1721; 1863; 2518; 2524; 2533; 2576; 2663; 2837; 3228; 3255; 3764; 3821; 3854; 4199; 4633; 4651; 4662
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	2	875; 3136
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	3	1112; 2701; 2956
PleI	GAGTCNNNN!	2	1806; 2238
PleI	!NNNNNGACTC	5	404; 1328; 1814; 3420; 4297
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	1257
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	1	1257
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1837
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	3967
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3999
PpiI	!NNNNNNNGAACNNNNNCTC	1	1805
PpsI	GAGTCNNNN!	2	1806; 2238
PpsI	!NNNNNGACTC	5	404; 1328; 1814; 3420; 4297
Ppu10I	A!TGCAT	3	2323; 2395; 4726
Ppu21I	YAC!GTR	4	340; 1257; 1871; 3059

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	2	1061; 4673
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1538; 1743
Psp03I	GGWC!C	2	3274; 3719
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	12	88; 281; 863; 2289; 2344; 2361; 3140; 3719; 3822; 4512; 4525; 4646
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1350
PspCI	CAC!GTG	1	1257
PspEI	G!GTNACC	0	
PspGI	!CCWGG	12	88; 281; 863; 2289; 2344; 2361; 3140; 3719; 3822; 4512; 4525; 4646
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	21	467; 630; 924; 1014; 1077; 1377; 1385; 1392; 1910; 1931; 1943; 2134; 2295; 2367; 2756; 2791; 3639; 3718; 3763; 4606; 4645
PspOMI	G!GGCCC	1	1383
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	4	125; 887; 2485; 3484
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2887
PspPI	G!GNCC	15	83; 276; 628; 882; 1012; 1075; 1140; 1195; 1384; 1862; 3271; 3716; 3762; 3820; 3853
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNNNN!	3	2308; 2380; 3886
PspPRI	!NNNNNNNNNNNNNNCTGRGG	2	2221; 3416
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	885; 3856
PstI	CTGCA!G	1	1368
PstNI	CAGNN!CTG	2	3856; 4264
PsuI	R!GATCY	12	585; 1187; 1339; 1390; 1399; 2926; 3172; 3564; 3923; 3935; 4021; 4032
PsyI	GACN!NNGTC	1	2873
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	4	1032; 1095; 2253; 2861
RcaI	T!CATGA	2	2181; 3953
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	3	695; 917; 3270
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNNNN!	4	1075; 1214; 1300; 1484
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	9	219; 244; 299; 332; 383; 540; 814; 1377; 3061
RsaNI	G!TAC	9	218; 243; 298; 331; 382; 539; 813; 1376; 3060
RseI	CAYNN!NNRTG	5	365; 703; 964; 982; 3192
RsrII	CG!GWCCG	1	3271
Rsr2I	CG!GWCCG	1	3271
SacI	GAGCT!C	1	1350
SacII	CCGC!GG	1	1382
SaI	G!TCGAC	1	1369
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	3099; 3309
SaqAI	T!TAA	15	7; 1456; 1517; 1638; 1659; 1670; 1682; 1693; 1710; 1808; 2079; 3898; 3912; 3917; 3969

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SatI	GC!NGC	36	627; 717; 720; 775; 975; 1128; 1173; 1176; 1532; 2051; 2073; 2087; 2525; 2664; 2716; 2727; 2817; 2822; 2859; 2900; 2987; 2990; 2993; 3229; 3325; 3366; 3380; 3494; 3833; 3848; 4059; 4265; 4268; 4333; 4476; 4631
Sau96I	G!GNCC	15	83; 276; 628; 882; 1012; 1075; 1140; 1195; 1384; 1862; 3271; 3716; 3762; 3820; 3853
Sau3AI	!GATC	23	585; 806; 1187; 1339; 1390; 1399; 1412; 2592; 2596; 2615; 2926; 3004; 3085; 3094; 3172; 3548; 3564; 3923; 3935; 4013; 4021; 4032; 4107
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1807; 2239
SchI	!NNNNNGACTC	5	404; 1328; 1814; 3420; 4297
SciI	CTC!GAG	1	1345
ScrFI	CC!NGG	19	90; 283; 865; 1193; 1387; 1388; 2291; 2346; 2363; 2759; 2919; 3142; 3532; 3721; 3824; 4296; 4514; 4527; 4648
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	6	717; 891; 2333; 2405; 2574; 4516
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2910; 3395
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	13	752; 824; 1295; 1350; 1387; 1946; 2701; 2794; 2868; 3058; 3120; 3830; 4363
SelI	!CGCG	20	58; 1023; 1176; 1248; 1266; 1379; 1641; 1677; 2053; 2073; 2097; 2128; 2819; 3120; 3558; 3642; 3705; 3774; 4047; 4628
SetI	ASST!	65	125; 137; 178; 261; 308; 342; 447; 552; 568; 658; 683; 749; 776; 787; 806; 946; 953; 964; 1034; 1097; 1165; 1259; 1274; 1350; 1356; 1445; 1466; 1475; 1487; 1536; 1703; 1818; 1830; 1873; 1910; 1960; 1983; 2107; 2255; 2350; 2543; 2656; 2784; 2863; 2874; 2946; 3017; 3061; 3321; 3467; 3511; 3842; 3873; 3932; 3975; 4118; 4139; 4238; 4375; 4390; 4409; 4421; 4465; 4511; 4562
SexAI	A!CCWGGT	1	2344
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	857; 899; 986; 1307; 1571; 2334; 2406; 3054; 3118; 3393
SfaNI	!NNNNNNNNNGATGC	5	357; 2713; 2968; 3184; 4576
SfiI	C!TRYAG	4	1364; 2090; 4217; 4408
SfiI	GGCCNNNN!NGGCC	1	2530
SfoI	GGC!GCC	1	2756
Sfr274I	C!TCGAG	1	1343
Sfr303I	CCGC!GG	1	1382
SfuI	TT!CGAA	2	1357; 3437
SgeI	CNNGNNNNNNNN!	192	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 643; 663; 690; 717; 735; 759; 774; 792; 816; 831; 845; 876; 889; 915; 939; 960; 974; 996; 1014; 1032; 1045; 1065; 1084; 1098; 1143; 1167; 1189; 1204; 1218; 1233; 1250; 1267; 1281; 1302; 1316; 1335; 1355; 1392; 1409; 1462; 1491; 1533; 1616; 1654; 1690; 1774; 1796; 1828; 1865; 1883; 1902; 1917; 1959; 1976; 1993; 2028; 2042; 2059; 2081; 2105; 2129; 2194; 2208; 2246; 2262; 2302; 2315; 2334; 2357; 2374; 2387; 2406; 2436; 2457; 2474; 2497; 2532; 2559; 2590; 2612; 2638; 2660; 2679; 2707; 2743; 2762; 2785; 2799; 2819; 2832; 2846; 2865; 2879; 2898; 2930; 2944; 2957; 2983; 3014; 3027; 3044; 3061; 3075; 3092; 3110; 3125; 3153; 3169; 3188; 3210; 3226; 3249; 3268; 3293; 3312; 3332; 3359; 3383; 3416; 3435; 3463; 3477; 3543; 3567; 3582; 3605; 3626; 3643; 3691; 3718; 3732; 3761; 3785; 3818; 3835; 3855; 3868; 3881; 3939; 3966; 3985; 4015; 4040; 4060; 4074; 4099; 4117; 4154; 4192; 4221; 4249; 4263; 4283; 4298; 4319; 4333; 4352; 4370; 4386; 4426; 4446; 4473; 4491; 4512; 4525; 4538; 4555; 4579; 4602; 4634; 4659; 4686; 4708

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	168	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 617; 637; 664; 691; 709; 733; 753; 772; 790; 819; 850; 871; 889; 913; 934; 952; 970; 988; 1006; 1030; 1048; 1072; 1117; 1141; 1163; 1192; 1224; 1241; 1276; 1309; 1329; 1366; 1383; 1436; 1465; 1507; 1590; 1628; 1664; 1748; 1770; 1802; 1839; 1857; 1876; 1933; 1950; 1967; 2002; 2020; 2040; 2060; 2079; 2103; 2168; 2220; 2276; 2308; 2331; 2348; 2380; 2410; 2431; 2448; 2471; 2506; 2533; 2564; 2586; 2612; 2634; 2653; 2681; 2717; 2736; 2759; 2780; 2798; 2815; 2839; 2872; 2904; 2931; 2957; 2988; 3018; 3035; 3061; 3084; 3105; 3127; 3147; 3167; 3184; 3223; 3242; 3267; 3286; 3306; 3333; 3357; 3390; 3409; 3437; 3459; 3517; 3541; 3560; 3579; 3600; 3617; 3665; 3692; 3712; 3735; 3759; 3792; 3809; 3829; 3855; 3913; 3940; 3959; 3989; 4014; 4034; 4073; 4091; 4128; 4166; 4195; 4223; 4244; 4272; 4293; 4326; 4344; 4400; 4420; 4447; 4465; 4486; 4512; 4529; 4553; 4576; 4608; 4633; 4660; 4682; 4711
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	1382
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1902; 3689; 4482
SimI	!GACCC	5	106; 1055; 3183; 3751; 3999
SinI	G!GWCC	2	3271; 3716
SlaI	C!TCGAG	1	1343
SmaI	CCC!GGG	1	1388
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 703; 964; 982; 3192
SmlI	C!TYRAG	6	1343; 1349; 3146; 4028; 4305; 4567
SmoI	C!TYRAG	6	1343; 1349; 3146; 4028; 4305; 4567
SmuI	CCCGCNNNN!	11	93; 119; 286; 639; 841; 1303; 2077; 2432; 2453; 3649; 3781
SmuI	!NNNNNNGCGGG	6	1374; 2008; 2878; 3415; 3553; 3700
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2325; 2397; 3160
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 1359; 1505; 1569; 1647; 1673; 1684; 2331; 2403; 2495; 3913
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2576
SsiI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 632; 834; 897; 975; 1118; 1176; 1296; 1379; 2070; 2073; 2087; 2177; 2425; 2437; 2446; 2458; 2468; 2479; 2525; 2664; 2727; 3229; 3274; 3340; 3366; 3491; 3494; 3642; 3774; 4081; 4225; 4721
SsiI	G!CGG	26	370; 403; 528; 626; 1127; 1381; 2015; 2042; 2130; 2240; 2821; 2885; 2986; 2989; 3269; 3324; 3422; 3560; 3707; 3847; 4090; 4335; 4456; 4475; 4602; 4630
SspI	AAT!ATT	2	1663; 2216
SspDI	G!GCGCC	1	2754
SspD5I	GGTGANNNNNNNN!	5	376; 693; 981; 3826; 3942
SspD5I	!NNNNNNNNNTCACC	7	689; 971; 1103; 1208; 1292; 1871; 2932
SstI	GAGCT!C	1	1350
SstII	CCGC!GG	1	1382
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	23	92; 118; 285; 638; 840; 848; 884; 1013; 1199; 1302; 1393; 1954; 2076; 2431; 2452; 2765; 3168; 3307; 3378; 3648; 3780; 4010; 4448
Sth132I	!NNNNNNNNNCGGG	19	15; 407; 470; 1373; 1955; 2007; 2108; 2835; 2877; 2910; 3414; 3523; 3552; 3699; 3803; 3834; 4287; 4331; 4539
Sth302II	CC!GG	22	602; 768; 1194; 1332; 1388; 1398; 1974; 2661; 2738; 2760; 2788; 2919; 3009; 3076; 3257; 3532; 3540; 3632; 4106; 4296; 4322; 4469
StrI	C!TCGAG	1	1343
StsI	GGATGNNNNNNNNNN!	4	2623; 3080; 3105; 3559
StsI	!NNNNNNNNNNNNNNCATCC	2	1026; 2427

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StuI	AGG CCT	1	2576
StyI	C CWGG	6	360; 611; 2484; 2577; 3187; 3592
StyD4I	!CCNGG	19	88; 281; 863; 1191; 1385; 1386; 2289; 2344; 2361; 2757; 2917; 3140; 3530; 3719; 3822; 4294; 4512; 4525; 4646
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 903; 984; 1375; 1846; 3135; 3251; 3359; 3682; 4173; 4643; 4714
TaiI	ACGT!	16	125; 137; 178; 261; 342; 447; 749; 1259; 1818; 1830; 1873; 1983; 2874; 3061; 3842; 3975
TaqI	T!CGA	19	671; 893; 911; 1148; 1184; 1344; 1357; 1370; 1904; 2595; 2868; 3024; 3048; 3084; 3246; 3437; 3482; 3737; 4575
TaqII	GACCGANNNNNNNNNN!	3	1775; 2792; 3460
TaqII	!NNNNNNNNNTCGGTC	1	3704
TaqII	CACCCANNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	3	172; 2659; 3251
TasI	!AATT	11	18; 1359; 1505; 1569; 1647; 1673; 1684; 2331; 2403; 2495; 3913
TatI	W!GTACW	4	217; 297; 330; 381
TauI	GCSG!C	19	629; 977; 1130; 1178; 2075; 2089; 2527; 2666; 2729; 2824; 2989; 2992; 3231; 3327; 3368; 3496; 3850; 4478; 4633
TfiI	G!AWTC	6	1327; 3240; 3374; 3484; 3521; 4699
TliI	C!TCGAG	1	1343
TruII	T!TAA	15	7; 1456; 1517; 1638; 1659; 1670; 1682; 1693; 1710; 1808; 2079; 3898; 3912; 3917; 3969
Tru9I	T!TAA	15	7; 1456; 1517; 1638; 1659; 1670; 1682; 1693; 1710; 1808; 2079; 3898; 3912; 3917; 3969
TscAI	CASTGNN!	5	1601; 2884; 3994; 4265; 4278
TseI	G!CWGC	17	716; 719; 774; 1172; 1531; 2050; 2715; 2816; 2858; 2899; 2992; 3379; 3832; 4058; 4264; 4267; 4332
TsoI	TARCCANNNNNNNNNN!	2	1727; 2074
TsoI	!NNNNNNNNNTGGYTA	2	1532; 3284
Tsp45I	!GTSAC	4	1206; 2044; 2875; 3181
Tsp509I	!AATT	11	18; 1359; 1505; 1569; 1647; 1673; 1684; 2331; 2403; 2495; 3913
TspDTI	ATGAANNNNNNNNNN!	3	1513; 2814; 3518
TspDTI	!NNNNNNNNNTTCAT	6	26; 657; 1092; 3232; 3688; 3895
TspEI	!AATT	11	18; 1359; 1505; 1569; 1647; 1673; 1684; 2331; 2403; 2495; 3913
TspGWI	ACGGANNNNNNNNNN!	1	3630
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1386
TspRI	CASTGNN!	5	1601; 2884; 3994; 4265; 4278
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2873
Tth111II	CAARCANNNNNNNNNN!	2	1237; 4082
Tth111II	!NNNNNNNNNTGYTTG	3	3190; 4050; 4089
UnbI	!GGNCC	15	82; 275; 627; 881; 1011; 1074; 1139; 1194; 1383; 1861; 3270; 3715; 3761; 3819; 3852
Van9II	CCANNNN!NTGG	2	785; 1035
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	748; 4359
VpaK11AI	!GGWCC	2	3270; 3715
VpaK11BI	G!GWCC	2	3271; 3716
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	1359; 1569; 1673; 1684
XbaI	T!CTAGA	1	1402
XceI	RCATG!Y	5	1065; 2325; 2397; 3160; 4677
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1343
XhoII	R!GATCY	12	585; 1187; 1339; 1390; 1399; 2926; 3172; 3564; 3923; 3935; 4021; 4032
XmaI	C!CCGGG	1	1386

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XmaJI	C!CTAGG	2	2577; 3592
XmiI	GT!MKAC	1	1370
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	8	592; 1403; 1604; 2022; 2578; 3593; 3927; 4180
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2327; 2399; 4730