

Gateway® Dendra2-At-C entry clone

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	5	83; 680; 955; 1161; 1366
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1449; 2405; 4194
AatI	AGG!CCT	1	2199
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	881
AccII	CG!CG	15	892; 1266; 1302; 1678; 1698; 1722; 1753; 2444; 2745; 3183; 3267; 3330; 3399; 3672; 4253
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2480
Acc36I	ACCTGCNNNN!	2	2646; 3096
Acc36I	!NNNNNNNNGCAGGT	1	2265
Acc65I	G!GTACC	1	886
AccB1I	G!GYRCC	4	886; 1531; 2377; 2412
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	1802; 2991
AccBSI	GAG!CGG	2	1638; 3045
AceIII	CAGCTCNNNNNNN!	1	1334
AceIII	!NNNNNNNNNNNGAGCTG	0	
AciI	C!CGC	25	890; 1693; 1696; 1710; 1800; 2048; 2060; 2069; 2081; 2091; 2102; 2148; 2287; 2350; 2852; 2897; 2963; 2989; 3114; 3117; 3265; 3397; 3704; 3848; 4344
AciI	G!CGG	21	892; 1638; 1665; 1753; 1863; 2444; 2508; 2609; 2612; 2892; 2947; 3045; 3183; 3330; 3470; 3713; 3958; 4079; 4098; 4225; 4253
AclI	AA!CGTT	1	500
AclWI	GGATCNNNN!	10	731; 909; 918; 2246; 2557; 2803; 3195; 3554; 3652; 3738
AclWI	!NNNNNGATCC	5	896; 2622; 3166; 3553; 3650
AcoI	Y!GGCCR	4	2284; 2458; 2849; 2876
AcsI	R!AATTY	5	737; 870; 1192; 1296; 1307
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	386; 2524; 2956
AcuI	!NNNNNNNNNNNNNCTTCAG	1	3754
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	3	2378; 3080; 3159
AdeI	CACNNN!GTG	2	720; 1494
AfaI	GT!AC	6	98; 453; 844; 888; 940; 2684
AfeI	AGC!GCT	1	119
AfiI	CCNNNNN!NNGG	19	253; 532; 816; 914; 1390; 1716; 2108; 2359; 2903; 3184; 3216; 3348; 3383; 3433; 3465; 3818; 4097; 4263; 4281
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	2	1264; 4296
AgeI	A!CCGGT	1	123
AgsI	TTS!AA	7	226; 387; 1789; 1833; 1843; 2256; 3832
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	10	144; 1912; 1967; 1984; 2763; 3342; 3445; 4135; 4148; 4269
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	593
AlfI	GCANNNNNNTGCNNNNNNNNNN!	3	806; 1952; 2024

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AlfI	!NNNNNNNNNNNGCANNNNNTGC	3	772; 1918; 1990
AloI	GAACNNNNNTCCNNNNNNNNNN!	1	1460
AloI	!NNNNNNNGGANNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	1	1428
AluI	AG!CT	16	585; 774; 859; 865; 931; 1157; 1324; 1581; 1876; 2164; 2484; 2942; 3739; 3996; 4042; 4132
AluBI	AG!CT	16	585; 774; 859; 865; 931; 1157; 1324; 1581; 1876; 2164; 2484; 2942; 3739; 3996; 4042; 4132
AlwI	GGATCNNNN!	10	731; 909; 918; 2246; 2557; 2803; 3195; 3554; 3652; 3738
AlwI	!NNNNNGATCC	5	896; 2622; 3166; 3553; 3650
Alw21I	GWGCW!C	6	294; 785; 861; 2491; 2681; 3986
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	5	824; 1802; 2220; 3239; 3367
Alw44I	G!TGCAC	1	3982
AlwNI	CAGNNN!CTG	2	3479; 3887
Ama87I	C!YCGRG	2	854; 897
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	119
ApaI	GGGCC!C	1	898
ApaBI	GCANNNNN!TGC	3	1946; 2018; 3480
ApaLI	G!TGCAC	1	3982
ApeKI	G!CWGC	14	111; 1154; 1673; 2338; 2439; 2481; 2522; 2615; 3002; 3455; 3681; 3887; 3890; 3955
ApoI	R!AATTY	5	737; 870; 1192; 1296; 1307
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	2893
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	2687; 3340; 4178
AquI	GCCGNACNNNNNNNNNNNNNNNNNN!	1	2777
AquI	!NNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	1	2206
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	2	274; 784
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	2948
ArsI	GACNNNNNTTYGNNNNNNNNNN!	1	732
ArsI	!NNNNNNCRAANNNNNGTC	0	
ArsI	CRAANNNNNGTCCNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	1	700
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	21	724; 851; 902; 911; 1036; 2216; 2220; 2239; 2550; 2628; 2709; 2718; 2796; 3172; 3188; 3547; 3559; 3637; 3645; 3656; 3731
AsiGI	A!CCGGT	1	123
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2496
Asp700I	GAANN!NNTTC	1	371
Asp718I	G!GTACC	1	886
AspA2I	C!CTAGG	2	2200; 3215
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	21	120; 1644; 1652; 1678; 1700; 1709; 1722; 1753; 2372; 2380; 2444; 2481; 2747; 3007; 3183; 3269; 3672; 3781; 3955; 4055; 4122
AspS9I	G!GNCC	9	535; 894; 895; 1485; 2894; 3339; 3385; 3443; 3476
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	868; 3060
AsuC2I	CC!SGG	6	898; 899; 2382; 2542; 3155; 3919
AsuHPI	GGTGANNNNNNNN!	4	241; 493; 3449; 3565
AsuHPI	!NNNNNNNTCACC	2	1495; 2556
AsuNHI	G!CTAGC	1	114
AvaI	C!YCGRG	2	854; 897
AvaII	G!GWCC	3	535; 2894; 3339
AviII	TGC!GCA	1	2480
AvrII	C!CTAGG	2	2200; 3215
AxyI	CC!TNAGG	3	401; 1858; 3490
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNGT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BaeI	GRTACNNNNGTNNNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	4	898; 2324; 2417; 3986
BalI	TGG!CCA	1	2460
BamHI	G!GATCC	1	901
BanI	G!GYRCC	4	886; 1531; 2377; 2412
BanII	GRGCY!C	5	861; 898; 1569; 2743; 3453
BanIII	AT!CGAT	1	2218
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	0	
BauI	C!ACGAG	2	3096; 4123
BauI	C!TCGTG	2	607; 2970
BbeI	GGCGC!C	1	2381
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNNGTCTTC	0	
BbuI	GCATG!C	3	1948; 2020; 2783
BbvI	GCAGCNNNNNN!	6	1166; 2451; 2493; 3014; 3467; 3967
BbvI	!NNNNNNNNNNNGCTGC	7	98; 1660; 2325; 2509; 2602; 3668; 3874
Bbv12I	GWGCW!C	6	294; 785; 861; 2491; 2681; 3986
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	819; 1508; 2072; 2598; 3100
BccI	!NNNNNGATGG	3	1476; 2256; 2684
BceAI	ACGGCNNNNNNNNNNNN!	2	2804; 3291
BceAI	!NNNNNNNNNNNNNGCCGT	3	1519; 2337; 3796
Bcefl	ACGGCNNNNNNNNNNNN!	2	2804; 3291
Bcefl	!NNNNNNNNNNNNNGCCGT	3	1520; 2338; 3797
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	1807; 2597; 4098
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1035
BcnI	CC!SGG	6	898; 899; 2382; 2542; 3155; 3919
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNNN!	2	1058; 4231
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	2	1024; 4197
BfaI	C!TAG	9	115; 914; 1026; 1227; 1645; 2201; 3216; 3550; 3803
BfiI	ACTGGGNNNNN!	1	2327
BfiI	!NNNCCCAGT	1	2079
BfmI	C!TRYAG	5	323; 875; 1713; 3840; 4031
BfoI	RGCGC!Y	5	121; 1645; 1653; 2381; 4056
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	1807; 2597; 4098
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	2646; 3096
BfuAI	!NNNNNNNNNGCAGGT	1	2265
BfuCI	!GATC	21	723; 850; 901; 910; 1035; 2215; 2219; 2238; 2549; 2627; 2708; 2717; 2795; 3171; 3187; 3546; 3558; 3636; 3644; 3655; 3730
BglI	GCCNNNN!NGGC	1	2153
BglII	A!GATCT	1	850
BisI	GC!NGC	28	112; 1155; 1674; 1696; 1710; 2148; 2287; 2339; 2350; 2440; 2445; 2482; 2523; 2610; 2616; 2852; 2948; 2989; 3003; 3117; 3456; 3471; 3682; 3888; 3891; 3956; 4099; 4254
BlnI	C!CTAGG	2	2200; 3215
BlpI	GC!TNAGC	0	

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BlsI	GCN!GC	28	113; 1156; 1675; 1697; 1711; 2149; 2288; 2340; 2351; 2441; 2446; 2483; 2524; 2611; 2617; 2853; 2949; 2990; 3004; 3118; 3457; 3472; 3683; 3889; 3892; 3957; 4100; 4255
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	535; 2894; 3339
Bme1390I	CC!NGG	16	146; 898; 899; 1914; 1969; 1986; 2382; 2542; 2765; 3155; 3344; 3447; 3919; 4137; 4150; 4271
BmeRI	GACNN!NNGTC	0	
BmeT110I	C!YCGRG	2	854; 897
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	9	536; 895; 896; 1486; 2895; 3340; 3386; 3444; 3477
BmiI	GGN!NCC	17	569; 888; 896; 903; 1533; 1554; 1566; 1757; 1918; 1990; 2379; 2414; 3262; 3341; 3386; 4229; 4268
BmrI	ACTGGGNNNNN!	1	2327
BmrI	!NNNNCCCAGT	1	2079
BmrFI	CC!NGG	16	146; 898; 899; 1914; 1969; 1986; 2382; 2542; 2765; 3155; 3344; 3447; 3919; 4137; 4150; 4271
BmsI	GCATCNNNNN!	6	1194; 1957; 2029; 2677; 2741; 3016
BmsI	!NNNNNNNNNGATGC	5	533; 2336; 2591; 2807; 4199
BmtI	GCTAG!C	1	118
BmuI	ACTGGGNNNNN!	1	2327
BmuI	!NNNNCCCAGT	1	2079
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2167; 3066
BpI	!NNNNNNNNGAGNNNNNNCTC	2	2135; 3034
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	848; 3218
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	1	3161
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	868; 3060
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	658; 3672; 4211
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	3	845; 2754; 3913
BpuMI	CC!SGG	6	898; 899; 2382; 2542; 3155; 3919
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3367
Bsa29I	AT!CGAT	1	2218
BsaAI	YAC!GTR	2	1494; 2682
BsaBI	GATNN!NNATC	2	1040; 2237
BsaHI	GR!CGYC	3	2378; 3080; 3159
BsaJI	C!CNNGG	16	890; 897; 1912; 1984; 2107; 2142; 2151; 2200; 2541; 2810; 3215; 3342; 3343; 3445; 3446; 4136
BsaMI	GAATGCN!	1	1129
BsaMI	G!CATTC	1	1222
BsaWI	W!CCGGW	6	123; 907; 2409; 3253; 3943; 4090
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1458
BsaXI	!NNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	1428
BsbI	CAACACNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	2	1379; 3286
Bsc4I	CCNNNNN!NNGG	19	253; 532; 816; 914; 1390; 1716; 2108; 2359; 2903; 3184; 3216; 3348; 3383; 3433; 3465; 3818; 4097; 4263; 4281
BscAI	GCATCNNNN!	6	1193; 1956; 2028; 2676; 2740; 3015
BscAI	!NNNNNNGATGC	5	536; 2339; 2594; 2810; 4202
Bse1I	ACTGGN!	3	2322; 2523; 3769
Bse1I	C!CAGT	5	538; 1407; 2085; 3881; 3894
Bse8I	GATNN!NNATC	2	1040; 2237
Bse21I	CC!TNAGG	3	401; 1858; 3490
Bse118I	R!CCGGY	5	123; 1595; 2697; 2878; 3161

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BseAI	T!CCGGA	0	
BseBI	CC!WGG	10	146; 1914; 1969; 1986; 2765; 3344; 3447; 4137; 4150; 4271
BseCI	AT!CGAT	1	2218
BseDI	C!CNNGG	16	890; 897; 1912; 1984; 2107; 2142; 2151; 2200; 2541; 2810; 3215; 3342; 3343; 3445; 3446; 4136
Bse3DI	GCAATGNN!	2	77; 2611
Bse3DI	!CATTGC	1	963
BseGI	GGATGNN!	4	2238; 2695; 2720; 3174
BseGI	!CATCC	2	314; 2064
BseJI	GATNN!NNATC	2	1040; 2237
BseLI	CCNNNNN!NNGG	19	253; 532; 816; 914; 1390; 1716; 2108; 2359; 2903; 3184; 3216; 3348; 3383; 3433; 3465; 3818; 4097; 4263; 4281
BseMI	GCAATGNN!	2	77; 2611
BseMI	!CATTGC	1	963
BseMII	CTCAGNNNNNNNNNN!	3	767; 848; 3504
BseMII	!NNNNNNNNCTGAG	6	392; 1849; 2151; 3032; 3604; 4013
BseNI	ACTGGN!	3	2322; 2523; 3769
BseNI	C!CAGT	5	538; 1407; 2085; 3881; 3894
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2196
BseRI	!NNNNNNNNCTCCTC	2	284; 794
BseSI	GKGCMI!C	4	898; 2324; 2417; 3986
BseXI	GCAGCNNNNNNNN!	6	1166; 2451; 2493; 3014; 3467; 3967
BseXI	!NNNNNNNNNNNGCTGC	7	98; 1660; 2325; 2509; 2602; 3668; 3874
BseX3I	C!GGCCG	1	2284
BseYI	C!CCAGC	4	927; 1921; 1993; 3992
BseYI	G!CTGGG	1	2882
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	15	892; 1266; 1302; 1678; 1698; 1722; 1753; 2444; 2745; 3183; 3267; 3330; 3399; 3672; 4253
Bsh1285I	CGRY!CG	3	128; 2287; 3962
BshFI	GG!CC	18	896; 1344; 1486; 2141; 2147; 2156; 2199; 2286; 2460; 2851; 2878; 3387; 3444; 3477; 3822; 4256; 4274; 4285
BshNI	G!GYRCC	4	886; 1531; 2377; 2412
BshTI	A!CCGGT	1	123
BshVI	AT!CGAT	1	2218
BsiEI	CGRY!CG	3	128; 2287; 3962
BsiHKAI	GWGCW!C	6	294; 785; 861; 2491; 2681; 3986
BsiHKCI	C!YCGRG	2	854; 897
BsiSI	C!CGG	19	124; 898; 908; 1596; 2283; 2360; 2382; 2410; 2541; 2631; 2698; 2879; 3154; 3162; 3254; 3728; 3918; 3944; 4091
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	19	253; 532; 816; 914; 1390; 1716; 2108; 2359; 2903; 3184; 3216; 3348; 3383; 3433; 3465; 3818; 4097; 4263; 4281
BsIFI	GGGACNNNNNNNNNN!	3	2529; 3061; 3170
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1894; 1966; 2030; 3325
BsmI	GAATGCN!	1	1129
BsmI	G!CATTC	1	1222
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	5	824; 1802; 2220; 3239; 3367
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2529; 3061; 3170
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1894; 1966; 2030; 3325
BsnI	GG!CC	18	896; 1344; 1486; 2141; 2147; 2156; 2199; 2286; 2460; 2851; 2878; 3387; 3444; 3477; 3822; 4256; 4274; 4285
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3367
BsoBI	C!YCGRG	2	854; 897
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	2	2107; 2810
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	625; 3181
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	3602; 3780
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3634; 3812
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	593; 3149

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Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	868; 3060
Bsp120I	G!GGCCC	1	894
Bsp143I	!GATC	21	723; 850; 901; 910; 1035; 2215; 2219; 2238; 2549; 2627; 2708; 2717; 2795; 3171; 3187; 3546; 3558; 3636; 3644; 3655; 3730
Bsp1286I	GDGCH!C	12	294; 785; 861; 898; 1569; 2324; 2417; 2491; 2681; 2743; 3453; 3986
Bsp1407I	T!GTACA	4	96; 451; 842; 938
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	25	890; 1693; 1696; 1710; 1800; 2048; 2060; 2069; 2081; 2091; 2102; 2148; 2287; 2350; 2852; 2897; 2963; 2989; 3114; 3117; 3265; 3397; 3704; 3848; 4344
BspACI	G!CGG	21	892; 1638; 1665; 1753; 1863; 2444; 2508; 2609; 2612; 2892; 2947; 3045; 3183; 3330; 3470; 3713; 3958; 4079; 4098; 4225; 4253
BspCNI	CTCAGNNNNNNNN!	3	766; 847; 3503
BspCNI	!NNNNNNNCTGAG	6	393; 1850; 2152; 3033; 3605; 4014
BspDI	AT!CGAT	1	2218
BspD6I	GACTCNNNN!	5	759; 840; 1451; 3057; 3934
BspD6I	!NNNNNNGAGTC	2	1414; 1846
BspEI	T!CCGGA	0	
BspFNI	CG!CG	15	892; 1266; 1302; 1678; 1698; 1722; 1753; 2444; 2745; 3183; 3267; 3330; 3399; 3672; 4253
BspHI	T!CATGA	2	1804; 3576
BspLI	GGN!NCC	17	569; 888; 896; 903; 1533; 1554; 1566; 1757; 1918; 1990; 2379; 2414; 3262; 3341; 3386; 4229; 4268
BspMI	ACCTGCNNNN!	2	2646; 3096
BspMI	!NNNNNNNNGCAGGT	1	2265
BspOI	GCTAG!C	1	118
BspPI	GGATCNNNN!	10	731; 909; 918; 2246; 2557; 2803; 3195; 3554; 3652; 3738
BspPI	!NNNNNGATCC	5	896; 2622; 3166; 3553; 3650
BspQI	GCTCTCN!	1	635
BspQI	!NNNNGAAGAGC	2	2722; 2932
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	868; 3060
BspT107I	G!GYRCC	4	886; 1531; 2377; 2412
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3367
BsrI	ACTGGN!	3	2322; 2523; 3769
BsrI	C!CAGT	5	538; 1407; 2085; 3881; 3894
BsrBI	CCG!CTC	2	1802; 2991
BsrBI	GAG!CGG	2	1638; 3045
BsrDI	GCAATGNN!	2	77; 2611
BsrDI	!CATTGC	1	963
BsrFI	R!CCGGY	5	123; 1595; 2697; 2878; 3161
BsrGI	T!GTACA	4	96; 451; 842; 938
BsrSI	ACTGGN!	3	2322; 2523; 3769
BsrSI	C!CAGT	5	538; 1407; 2085; 3881; 3894
BssAI	R!CCGGY	5	123; 1595; 2697; 2878; 3161
BssECI	C!CNNGG	16	890; 897; 1912; 1984; 2107; 2142; 2151; 2200; 2541; 2810; 3215; 3342; 3343; 3445; 3446; 4136
BssHII	G!CGCGC	0	
BssKI	!CCNGG	16	144; 896; 897; 1912; 1967; 1984; 2380; 2540; 2763; 3153; 3342; 3445; 3917; 4135; 4148; 4269
BssMI	!GATC	21	723; 850; 901; 910; 1035; 2215; 2219; 2238; 2549; 2627; 2708; 2717; 2795; 3171; 3187; 3546; 3558; 3636; 3644; 3655; 3730
BssNI	GR!CGYC	3	2378; 3080; 3159
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3096; 4123
BssSI	C!TCGTG	2	607; 2970
BssTII	C!CWWGG	4	2107; 2200; 2810; 3215
Bst6I	CTCTCN!	1	635
Bst6I	!NNNNGAAGAG	3	1845; 2722; 2932
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	3	2378; 3080; 3159

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	1945; 2017; 3479
BstAUI	T!GTACA	4	96; 451; 842; 938
BstBI	TT!CGAA	2	868; 3060
Bst2BI	C!ACGAG	2	3096; 4123
Bst2BI	C!TCGTG	2	607; 2970
BstBAI	YAC!GTR	2	1494; 2682
Bst4CI	ACN!GT	11	279; 535; 886; 1469; 2758; 2874; 2982; 3305; 3796; 4266; 4337
BstC8I	GCN!NGC	28	109; 116; 785; 894; 1597; 1640; 1654; 1927; 1946; 1999; 2018; 2272; 2458; 2677; 2743; 2749; 2781; 2822; 2826; 2880; 3163; 3350; 3397; 3453; 3475; 3686; 4246; 4283
BstDEI	C!TNAG	9	401; 753; 834; 1858; 2160; 3041; 3490; 3613; 4022
BstDSI	C!CRYGG	3	890; 2107; 2810
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2238; 2695; 2720; 3174
BstF5I	!CATCC	2	314; 2064
BstFNI	CG!CG	15	892; 1266; 1302; 1678; 1698; 1722; 1753; 2444; 2745; 3183; 3267; 3330; 3399; 3672; 4253
BstH2I	RGCGC!Y	5	121; 1645; 1653; 2381; 4056
BstHHI	GCG!C	21	120; 1644; 1652; 1678; 1700; 1709; 1722; 1753; 2372; 2380; 2444; 2481; 2747; 3007; 3183; 3269; 3672; 3781; 3955; 4055; 4122
BstKTI	GAT!C	21	726; 853; 904; 913; 1038; 2218; 2222; 2241; 2552; 2630; 2711; 2720; 2798; 3174; 3190; 3549; 3561; 3639; 3647; 3658; 3733
BstMAI	GTCTCN!	0	
BstMAI	!NNNNNGAGAC	5	824; 1802; 2220; 3239; 3367
BstMBI	!GATC	21	723; 850; 901; 910; 1035; 2215; 2219; 2238; 2549; 2627; 2708; 2717; 2795; 3171; 3187; 3546; 3558; 3636; 3644; 3655; 3730
BstMCI	CGRY!CG	3	128; 2287; 3962
BstMWI	GCNNNNN!NNGC	21	117; 780; 1605; 1635; 1662; 1704; 1945; 2017; 2068; 2147; 2369; 2453; 2476; 2615; 2738; 2821; 3088; 3275; 3479; 3678; 4250
BstNI	CC!WGG	10	146; 1914; 1969; 1986; 2765; 3344; 3447; 4137; 4150; 4271
BstNSI	RCATG!Y	4	1948; 2020; 2783; 4300
BstOI	CC!WGG	10	146; 1914; 1969; 1986; 2765; 3344; 3447; 4137; 4150; 4271
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	16	144; 896; 897; 1912; 1967; 1984; 2380; 2540; 2763; 3153; 3342; 3445; 3917; 4135; 4148; 4269
BstSFI	C!TRYAG	5	323; 875; 1713; 3840; 4031
BstSLI	GKGCMI!C	4	898; 2324; 2417; 3986
BstSNI	TAC!GTA	0	
BstUI	CG!CG	15	892; 1266; 1302; 1678; 1698; 1722; 1753; 2444; 2745; 3183; 3267; 3330; 3399; 3672; 4253
Bst2UI	CC!WGG	10	146; 1914; 1969; 1986; 2765; 3344; 3447; 4137; 4150; 4271
BstV1I	GCAGCNNNNNNN!	6	1166; 2451; 2493; 3014; 3467; 3967
BstV1I	!NNNNNNNNNNNGCTGC	7	98; 1660; 2325; 2509; 2602; 3668; 3874
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNGTCTTC	0	
BstXI	CCANNNN!NTGG	0	
BstX2I	R!GATCY	10	850; 901; 910; 2549; 2795; 3187; 3546; 3558; 3644; 3655
BstYI	R!GATCY	10	850; 901; 910; 2549; 2795; 3187; 3546; 3558; 3644; 3655
BstZI	C!GGCCG	1	2284
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNN!	3	1807; 2597; 4098
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2218
Bsu36I	CC!TNAGG	3	401; 1858; 3490
BsuRI	GG!CC	18	896; 1344; 1486; 2141; 2147; 2156; 2199; 2286; 2460; 2851; 2878; 3387; 3444; 3477; 3822; 4256; 4274; 4285
BsuTUI	AT!CGAT	1	2218
BtgI	C!CRYGG	3	890; 2107; 2810
BtgZI	GCGATGNNNNNNNNN!	2	1495; 2830
BtgZI	!NNNNNNNNNNNNNCATCGC	2	2649; 2993

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BthCI	GCNG!C	28	114; 1157; 1676; 1698; 1712; 2150; 2289; 2341; 2352; 2442; 2447; 2484; 2525; 2612; 2618; 2854; 2950; 2991; 3005; 3119; 3458; 3473; 3684; 3890; 3893; 3958; 4101; 4256
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1217
BtsCI	GGATGNN!	4	2238; 2695; 2720; 3174
BtsCI	!CATCC	2	314; 2064
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	2646; 3096
BveI	!NNNNNNNNNGCAGGT	1	2265
Cac8I	GCN!NGC	28	109; 116; 785; 894; 1597; 1640; 1654; 1927; 1946; 1999; 2018; 2272; 2458; 2677; 2743; 2749; 2781; 2822; 2826; 2880; 3163; 3350; 3397; 3453; 3475; 3686; 4246; 4283
CaiI	CAGNNN!CTG	2	3479; 3887
CciI	T!CATGA	2	1804; 3576
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	4	2667; 2672; 2870; 3011
CdiI	C!GATG	2	1481; 2816
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4250
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	2	2039; 2081
CelII	GC!TNAGC	0	
CfoI	GCG!C	21	120; 1644; 1652; 1678; 1700; 1709; 1722; 1753; 2372; 2380; 2444; 2481; 2747; 3007; 3183; 3269; 3672; 3781; 3955; 4055; 4122
CfrI	Y!GGCCR	4	2284; 2458; 2849; 2876
Cfr9I	C!CCGGG	1	897
Cfr10I	R!CCGGY	5	123; 1595; 2697; 2878; 3161
Cfr13I	G!GNCC	9	535; 894; 895; 1485; 2894; 3339; 3385; 3443; 3476
Cfr42I	CCGC!GG	1	893
Chai	GATC!	21	727; 854; 905; 914; 1039; 2219; 2223; 2242; 2553; 2631; 2712; 2721; 2799; 3175; 3191; 3550; 3562; 3640; 3648; 3659; 3734
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	836; 2195; 3635; 3735; 3813
CjeI	!NNNNNNNNNACNNNNNNNTGG	6	593; 1862; 1957; 3149; 3699; 4254
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	6	627; 1896; 1991; 3183; 3733; 4288
CjeI	!NNNNNNNNCCANNNNNNGT	5	802; 2161; 3601; 3701; 3779
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	4	159; 401; 3635; 3813
CjePI	!NNNNNNNNGANNNNNNNTGG	4	129; 593; 3149; 3748
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	4	162; 626; 3182; 3781
CjePI	!NNNNNNNNCCANNNNNNNTC	4	126; 368; 3602; 3780
Clai	AT!CGAT	1	2218
CpoI	CG!GWCCG	1	2894
CseI	GACGCNNNNN!	3	718; 3088; 3167
CseI	!NNNNNNNNNNNGCGTC	3	1711; 3606; 4184
CsiI	A!CCWGGT	1	1967
CspI	CG!GWCCG	1	2894
Csp6I	G!TAC	6	97; 452; 843; 887; 939; 2683
Csp45I	TT!CGAA	2	868; 3060
CspAI	A!CCGGT	1	123
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	308; 1658; 3267
CstMI	!NNNNNNNNNNNNNNNNNNNCTCCTT	1	615
CviAII	C!ATG	16	135; 189; 624; 1805; 1945; 2017; 2108; 2249; 2594; 2780; 2811; 2837; 3193; 3577; 4297; 4348
CviJI	RG!CY	76	10; 111; 570; 585; 628; 774; 859; 865; 896; 931; 1047; 1157; 1324; 1344; 1486; 1567; 1581; 1595; 1876; 1917; 1989; 2112; 2141; 2147; 2156; 2164; 2187; 2199; 2205; 2286; 2303; 2311; 2338; 2363; 2447; 2456; 2460; 2484; 2522; 2598; 2615; 2634; 2697; 2741; 2751; 2768; 2851; 2878; 2882; 2919; 2942; 2958; 3138; 3165; 3226; 3348; 3387; 3444; 3451; 3458; 3477; 3488; 3739; 3768; 3811; 3822; 3887; 3966; 3991; 3996; 4042; 4132; 4230; 4256; 4274; 4285

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	76	10; 111; 570; 585; 628; 774; 859; 865; 896; 931; 1047; 1157; 1324; 1344; 1486; 1567; 1581; 1595; 1876; 1917; 1989; 2112; 2141; 2147; 2156; 2164; 2187; 2199; 2205; 2286; 2303; 2311; 2338; 2363; 2447; 2456; 2460; 2484; 2522; 2598; 2615; 2634; 2697; 2741; 2751; 2768; 2851; 2878; 2882; 2919; 2942; 2958; 3138; 3165; 3226; 3348; 3387; 3444; 3451; 3458; 3477; 3488; 3739; 3768; 3811; 3822; 3887; 3966; 3991; 3996; 4042; 4132; 4230; 4256; 4274; 4285
CviQI	G!TAC	6	97; 452; 843; 887; 939; 2683
DdeI	C!TNAG	9	401; 753; 834; 1858; 2160; 3041; 3490; 3613; 4022
DinI	GGC!GCC	1	2379
DpnI	GA!TC	21	725; 852; 903; 912; 1037; 2217; 2221; 2240; 2551; 2629; 2710; 2719; 2797; 3173; 3189; 3548; 3560; 3638; 3646; 3657; 3732
DpnII	!GATC	21	723; 850; 901; 910; 1035; 2215; 2219; 2238; 2549; 2627; 2708; 2717; 2795; 3171; 3187; 3546; 3558; 3636; 3644; 3655; 3730
DraI	TTT!AAA	4	669; 1080; 3522; 3541
DraII	RG!GNCCY	1	3476
DraIII	CACNNN!GTG	2	720; 1494
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	1	3858
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1449; 2405; 4194
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1449; 2405; 4194
EaeI	Y!GGCCR	4	2284; 2458; 2849; 2876
EagI	C!GGCCG	1	2284
Eam1104I	CTCTCN!	1	635
Eam1104I	!NNNNGAAGAG	3	1845; 2722; 2932
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	1	635
EarI	!NNNNGAAGAG	3	1845; 2722; 2932
EciI	GGCGGANNNNNNNNNNNN!	4	1878; 2907; 4094; 4240
EciI	!NNNNNNNNNTCCGCC	3	2049; 2070; 2091
Ecl136II	GAG!CTC	1	859
EclXI	C!GGCCG	1	2284
Eco24I	GRGCY!C	5	861; 898; 1569; 2743; 3453
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	3367
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	535; 2894; 3339
Eco47III	AGC!GCT	1	119
Eco52I	C!GGCCG	1	2284
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	386; 2524; 2956
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	3754
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	401; 1858; 3490
Eco88I	C!YCGRG	2	854; 897
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	4	2107; 2200; 2810; 3215
Eco147I	AGG!CCT	1	2199
EcoHI	!CCSGG	6	896; 897; 2380; 2540; 3153; 3917
EcoICRI	GAG!CTC	1	859
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	5	386; 848; 2524; 2956; 3218
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	2	3161; 3754
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	3476
EcoRI	G!AATTC	1	870
EcoRII	!CCWGG	10	144; 1912; 1967; 1984; 2763; 3342; 3445; 4135; 4148; 4269
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	4	2107; 2200; 2810; 3215
EcoT22I	ATGCA!T	3	1950; 2022; 4353
EcoT38I	GRGCY!C	5	861; 898; 1569; 2743; 3453
Eco53kl	GAG!CTC	1	859

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EgeI	GGC!GCC	1	2379
EheI	GGC!GCC	1	2379
ErhI	C!CWGG	4	2107; 2200; 2810; 3215
EsaBC3I	TC!GA	17	435; 477; 735; 856; 869; 882; 1528; 2219; 2492; 2648; 2672; 2708; 2870; 3061; 3106; 3361; 4199
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	16	138; 192; 627; 1808; 1948; 2020; 2111; 2252; 2597; 2783; 2814; 2840; 3196; 3580; 4300; 4351
Fail	YA!TR	47	83; 136; 172; 190; 249; 311; 625; 680; 728; 779; 955; 1040; 1050; 1116; 1161; 1366; 1794; 1806; 1937; 1946; 2009; 2018; 2042; 2109; 2133; 2250; 2314; 2595; 2620; 2781; 2812; 2838; 2910; 3126; 3194; 3272; 3324; 3485; 3504; 3506; 3578; 3856; 4045; 4161; 4234; 4298; 4349
FalI	AAGNNNNCTTNNNNNNNNNN!	3	91; 984; 2718
FalI	!NNNNNNNAAGNNNNCTT	3	59; 952; 2686
FaqI	GGGACNNNNNNNN!	3	2529; 3061; 3170
FaqI	!NNNNNNNNNNNGTCCC	4	1894; 1966; 2030; 3325
FatI	!CATG	16	134; 188; 623; 1804; 1944; 2016; 2107; 2248; 2593; 2779; 2810; 2836; 3192; 3576; 4296; 4347
FauI	CCCGCNNNN!	5	1700; 2055; 2076; 3272; 3404
FauI	!NNNNNGCGGG	6	885; 1631; 2501; 3038; 3176; 3323
FauNDI	CA!TATG	0	
FbaI	T!GATCA	1	1035
FblI	GT!MKAC	1	881
FmuI	GGNC!C	9	538; 897; 898; 1488; 2897; 3342; 3388; 3446; 3479
Fnu4HI	GC!NGC	28	112; 1155; 1674; 1696; 1710; 2148; 2287; 2339; 2350; 2440; 2445; 2482; 2523; 2610; 2616; 2852; 2948; 2989; 3003; 3117; 3456; 3471; 3682; 3888; 3891; 3956; 4099; 4254
FokI	GGATGNNNNNNNN!	4	2245; 2702; 2727; 3181
FokI	!NNNNNNNNNNNCATCC	2	301; 2051
FriOI	GRGCY!C	5	861; 898; 1569; 2743; 3453
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2480
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	115; 914; 1026; 1227; 1645; 2201; 3216; 3550; 3803
FspEI	CCNNNNNNNNNN!	127	24; 58; 102; 137; 158; 260; 308; 331; 377; 413; 508; 538; 584; 601; 649; 670; 719; 818; 903; 918; 940; 1061; 1100; 1114; 1255; 1350; 1374; 1397; 1420; 1438; 1460; 1481; 1500; 1519; 1548; 1569; 1583; 1609; 1697; 1723; 1772; 1813; 1831; 1870; 1886; 1924; 1981; 1996; 2053; 2073; 2087; 2104; 2118; 2155; 2170; 2213; 2296; 2363; 2394; 2414; 2429; 2474; 2488; 2554; 2568; 2587; 2603; 2644; 2664; 2711; 2761; 2777; 2797; 2822; 2842; 2865; 2892; 2910; 2936; 2976; 3002; 3026; 3082; 3096; 3124; 3167; 3188; 3223; 3267; 3355; 3379; 3401; 3421; 3437; 3458; 3472; 3491; 3575; 3595; 3623; 3638; 3672; 3714; 3741; 3756; 3801; 3825; 3839; 3861; 3887; 3907; 3931; 3957; 4005; 4024; 4043; 4069; 4104; 4149; 4179; 4193; 4244; 4258; 4283; 4299; 4320; 4349
FspEI	!NNNNNNNNNNNNNGG	111	93; 131; 175; 212; 239; 268; 323; 388; 421; 464; 496; 518; 549; 584; 610; 629; 667; 706; 728; 802; 821; 869; 893; 932; 976; 1049; 1149; 1218; 1326; 1375; 1397; 1425; 1461; 1506; 1535; 1571; 1590; 1618; 1638; 1701; 1724; 1832; 1864; 1882; 1911; 1954; 1983; 2094; 2123; 2166; 2187; 2215; 2248; 2268; 2293; 2320; 2345; 2367; 2395; 2421; 2442; 2493; 2514; 2532; 2580; 2616; 2672; 2697; 2721; 2750; 2773; 2797; 2823; 2845; 2864; 2889; 2929; 2965; 3030; 3115; 3139; 3168; 3202; 3223; 3243; 3288; 3315; 3334; 3367; 3419; 3450; 3477; 3529; 3627; 3698; 3743; 3804; 3869; 3903; 3929; 3947; 3983; 4053; 4076; 4098; 4122; 4155; 4203; 4238; 4256; 4313
Fsp4HI	GC!NGC	28	112; 1155; 1674; 1696; 1710; 2148; 2287; 2339; 2350; 2440; 2445; 2482; 2523; 2610; 2616; 2852; 2948; 2989; 3003; 3117; 3456; 3471; 3682; 3888; 3891; 3956; 4099; 4254
GdiII	C!GGCCR	1	2284
GdiII	Y!GGCCG	3	2284; 2849; 2876
GlaI	GC!GC	21	119; 1643; 1651; 1677; 1699; 1708; 1721; 1752; 2371; 2379; 2443; 2480; 2746; 3006; 3182; 3268; 3671; 3780; 3954; 4054; 4121

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GluI	GC!NGC	28	112; 1155; 1674; 1696; 1710; 2148; 2287; 2339; 2350; 2440; 2445; 2482; 2523; 2610; 2616; 2852; 2948; 2989; 3003; 3117; 3456; 3471; 3682; 3888; 3891; 3956; 4099; 4254
GsaI	CCCAG!C	4	931; 1925; 1997; 3996
GsaI	GCTGG!G	1	2886
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	2	848; 3218
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3161
HaeI	WGG!CCW	5	2199; 2460; 3822; 4274; 4285
HaeII	RGCGC!Y	5	121; 1645; 1653; 2381; 4056
HaeIII	GG!CC	18	896; 1344; 1486; 2141; 2147; 2156; 2199; 2286; 2460; 2851; 2878; 3387; 3444; 3477; 3822; 4256; 4274; 4285
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	1053; 2574
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1019; 2540
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	1052; 2573
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1021; 2542
HapII	C!CGG	19	124; 898; 908; 1596; 2283; 2360; 2382; 2410; 2541; 2631; 2698; 2879; 3154; 3162; 3254; 3728; 3918; 3944; 4091
HgaI	GACGCNNNNN!	3	718; 3088; 3167
HgaI	!NNNNNNNNNNNGCGTC	3	1711; 3606; 4184
HhaI	GCG!C	21	120; 1644; 1652; 1678; 1700; 1709; 1722; 1753; 2372; 2380; 2444; 2481; 2747; 3007; 3183; 3269; 3672; 3781; 3955; 4055; 4122
HinI	GR!CGYC	3	2378; 3080; 3159
HinIII	CATG!	16	138; 192; 627; 1808; 1948; 2020; 2111; 2252; 2597; 2783; 2814; 2840; 3196; 3580; 4300; 4351
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	673; 1052; 2573
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	1020; 2541; 2571
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	1052; 2573; 2603
Hin4I	!NNNNNNNNNGAYNNNNNVTC	3	641; 1020; 2541
Hin6I	G!CGC	21	118; 1642; 1650; 1676; 1698; 1707; 1720; 1751; 2370; 2378; 2442; 2479; 2745; 3005; 3181; 3267; 3670; 3779; 3953; 4053; 4120
HinPII	G!CGC	21	118; 1642; 1650; 1676; 1698; 1707; 1720; 1751; 2370; 2378; 2442; 2479; 2745; 3005; 3181; 3267; 3670; 3779; 3953; 4053; 4120
HincII	GTY!RAC	2	882; 1141
HindII	GTY!RAC	2	882; 1141
HindIII	A!AGCTT	1	863
HinFI	G!ANTC	15	149; 446; 731; 751; 832; 1421; 1443; 1853; 2863; 2997; 3049; 3107; 3144; 3926; 4322
HpaI	GTT!AAC	1	1141
HpaII	C!CGG	19	124; 898; 908; 1596; 2283; 2360; 2382; 2410; 2541; 2631; 2698; 2879; 3154; 3162; 3254; 3728; 3918; 3944; 4091
HphI	GGTGANNNNNNNN!	4	241; 493; 3449; 3565
HphI	!NNNNNNNTCACC	2	1495; 2556
Hpy8I	GTN!NAC	11	186; 244; 353; 649; 843; 882; 1141; 1425; 1442; 1497; 3984
Hpy99I	CGWCG!	8	886; 2468; 2496; 2790; 2805; 3082; 3467; 4200
Hpy166II	GTN!NAC	11	186; 244; 353; 649; 843; 882; 1141; 1425; 1442; 1497; 3984
Hpy188I	TCN!GA	12	465; 756; 1552; 2161; 2345; 2689; 3042; 3143; 3622; 3756; 4109; 4187
Hpy188III	TC!NNGA	26	364; 376; 400; 595; 706; 827; 854; 1805; 1857; 2170; 2223; 2396; 2712; 2721; 2804; 2860; 2904; 2994; 3027; 3096; 3577; 3651; 3734; 3832; 3930; 4064
HpyAV	CCTTCNNNNNN!	4	581; 3023; 3130; 3809
HpyAV	!NNNNNGAAGG	11	220; 247; 276; 472; 1611; 2506; 3235; 3251; 3434; 3751; 4061
HpyCH4III	ACN!GT	11	279; 535; 886; 1469; 2758; 2874; 2982; 3305; 3796; 4266; 4337
HpyCH4IV	A!CGT	11	200; 500; 590; 1438; 1450; 1493; 1603; 2494; 2681; 3462; 3595
HpyCH4V	TG!CA	22	55; 268; 546; 699; 877; 983; 1127; 1154; 1222; 1939; 1948; 2011; 2020; 2135; 2211; 2270; 2429; 2604; 2618; 3688; 3984; 4351
HpyF3I	C!TNAG	9	401; 753; 834; 1858; 2160; 3041; 3490; 3613; 4022
HpyF10VI	GCNNNNN!NNGC	21	117; 780; 1605; 1635; 1662; 1704; 1945; 2017; 2068; 2147; 2369; 2453; 2476; 2615; 2738; 2821; 3088; 3275; 3479; 3678; 4250
Hsp92I	GR!CGYC	3	2378; 3080; 3159
Hsp92II	CATG!	16	138; 192; 627; 1808; 1948; 2020; 2111; 2252; 2597; 2783; 2814; 2840; 3196; 3580; 4300; 4351

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HspAI	G!CGC	21	118; 1642; 1650; 1676; 1698; 1707; 1720; 1751; 2370; 2378; 2442; 2479; 2745; 3005; 3181; 3267; 3670; 3779; 3953; 4053; 4120
KasI	G!GCGCC	1	2377
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	890
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	893
Ksp22I	T!GATCA	1	1035
KspAI	GTT!AAC	1	1141
Kzo9I	!GATC	21	723; 850; 901; 910; 1035; 2215; 2219; 2238; 2549; 2627; 2708; 2717; 2795; 3171; 3187; 3546; 3558; 3636; 3644; 3655; 3730
LguI	GCTCTTCN!	1	635
LguI	!NNNNGAAGAGC	2	2722; 2932
LpnI	RGC!GCG	5	119; 1643; 1651; 2379; 4054
LpnPI	CCDGNNNNNNNNN!	53	58; 137; 158; 377; 413; 551; 719; 911; 941; 1115; 1420; 1609; 1832; 1870; 1886; 1926; 1981; 1998; 2098; 2183; 2296; 2373; 2395; 2418; 2554; 2568; 2587; 2644; 2711; 2761; 2777; 2834; 2892; 3101; 3167; 3191; 3267; 3356; 3459; 3492; 3723; 3741; 3887; 3907; 3931; 3957; 4006; 4104; 4149; 4179; 4258; 4283; 4320
LpnPI	!NNNNNNNNNNNNNCHGG	47	93; 131; 802; 821; 883; 976; 1461; 1581; 1638; 1701; 1899; 1911; 1971; 1983; 2215; 2260; 2303; 2345; 2367; 2395; 2442; 2504; 2526; 2616; 2683; 2706; 2750; 2845; 2864; 2889; 3038; 3139; 3182; 3239; 3329; 3432; 3459; 3477; 3713; 3750; 3903; 3929; 4069; 4087; 4122; 4203; 4256
Lsp1109I	GCAGCNNNNNNNN!	6	1166; 2451; 2493; 3014; 3467; 3967
Lsp1109I	!NNNNNNNNNNNGCTGC	7	98; 1660; 2325; 2509; 2602; 3668; 3874
LweI	GCATCNNNNN!	6	1194; 1957; 2029; 2677; 2741; 3016
LweI	!NNNNNNNNNGATGC	5	533; 2336; 2591; 2807; 4199
MabI	A!CCWGGT	1	1967
MaeI	C!TAG	9	115; 914; 1026; 1227; 1645; 2201; 3216; 3550; 3803
MaeII	A!CGT	11	200; 500; 590; 1438; 1450; 1493; 1603; 2494; 2681; 3462; 3595
MaeIII	!GTNAC	14	40; 196; 595; 917; 993; 1166; 1667; 1679; 2498; 2804; 3494; 3760; 3876; 3939
MaiI	GA!TC	21	725; 852; 903; 912; 1037; 2217; 2221; 2240; 2551; 2629; 2710; 2719; 2797; 3173; 3189; 3548; 3560; 3638; 3646; 3657; 3732
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1802; 2991
MbiI	GAG!CGG	2	1638; 3045
MboI	!GATC	21	723; 850; 901; 910; 1035; 2215; 2219; 2238; 2549; 2627; 2708; 2717; 2795; 3171; 3187; 3546; 3558; 3636; 3644; 3655; 3730
MboII	GAAGANNNNNNNN!	7	178; 379; 1634; 1862; 2739; 2949; 3568
MboII	!NNNNNNNTCTTC	5	622; 3029; 3196; 3396; 3639
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1128
MfII	R!GATCY	10	850; 901; 910; 2549; 2795; 3187; 3546; 3558; 3644; 3655
MhII	GDGCH!C	12	294; 785; 861; 898; 1569; 2324; 2417; 2491; 2681; 2743; 3453; 3986
MisI	TGG!CCA	1	2460
MluI	A!CGCGT	1	1264
MluNI	TGG!CCA	1	2460
MlyI	GAGTCNNNNN!	2	1430; 1862
MlyI	!NNNNNGACTC	5	745; 826; 1437; 3043; 3920
Mly113I	GG!CGCC	1	2378
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1471
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	3903; 4087
MnII	CCTCNNNNNNN!	10	305; 667; 815; 1097; 2161; 2979; 3185; 3499; 3869; 4193
MnII	!NNNNNNGAGG	18	186; 225; 279; 396; 429; 633; 1057; 1522; 1853; 2131; 2174; 2189; 2229; 2293; 2429; 2786; 3216; 4119
Mph1103I	ATGCA!T	3	1950; 2022; 4353
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	1595; 2878; 3161
MroXI	GAANN!NNTTC	1	371

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MscI	TGG!CCA	1	2460
MseI	T!TAA	19	179; 509; 560; 620; 668; 1079; 1140; 1261; 1282; 1293; 1305; 1316; 1333; 1431; 1702; 3521; 3535; 3540; 3592
MslI	CAYNN!NNRTG	3	561; 593; 2815
MspI	C!CGG	19	124; 898; 908; 1596; 2283; 2360; 2382; 2410; 2541; 2631; 2698; 2879; 3154; 3162; 3254; 3728; 3918; 3944; 4091
Msp20I	TGG!CCA	1	2460
MspA1I	CMG!CKG	5	892; 1876; 2484; 3713; 3958
MspCI	C!TTAAG	0	
MspJI	CNNRNNNNNNNNNN!	218	24; 47; 71; 101; 120; 136; 157; 174; 199; 213; 260; 274; 312; 331; 351; 368; 388; 412; 425; 447; 476; 489; 507; 530; 550; 571; 590; 607; 621; 636; 649; 689; 718; 732; 747; 765; 796; 822; 839; 858; 872; 903; 920; 934; 948; 981; 999; 1018; 1038; 1051; 1066; 1085; 1102; 1115; 1156; 1170; 1183; 1201; 1239; 1254; 1272; 1313; 1337; 1357; 1375; 1396; 1419; 1451; 1466; 1488; 1506; 1519; 1540; 1557; 1570; 1583; 1599; 1612; 1642; 1657; 1682; 1700; 1713; 1728; 1752; 1766; 1790; 1815; 1831; 1869; 1885; 1924; 1938; 1952; 1980; 1996; 2010; 2024; 2053; 2066; 2087; 2096; 2118; 2148; 2164; 2182; 2212; 2235; 2259; 2283; 2302; 2330; 2356; 2372; 2385; 2408; 2422; 2442; 2455; 2469; 2488; 2502; 2515; 2531; 2546; 2559; 2575; 2590; 2606; 2631; 2650; 2666; 2679; 2692; 2710; 2724; 2738; 2754; 2776; 2792; 2811; 2833; 2849; 2872; 2891; 2905; 2921; 2935; 2955; 2971; 2984; 3006; 3039; 3053; 3073; 3086; 3100; 3154; 3167; 3190; 3203; 3222; 3239; 3266; 3302; 3335; 3354; 3379; 3400; 3427; 3440; 3457; 3471; 3486; 3502; 3562; 3587; 3603; 3625; 3638; 3652; 3683; 3697; 3722; 3740; 3755; 3768; 3787; 3800; 3815; 3844; 3863; 3881; 3906; 3921; 3940; 3956; 3975; 3993; 4009; 4023; 4042; 4069; 4092; 4114; 4133; 4148; 4161; 4178; 4198; 4225; 4238; 4257; 4282; 4305; 4319; 4332; 4349
MspJI	!NNNNNNNNNNNNYNG	181	16; 35; 53; 80; 101; 121; 148; 175; 197; 217; 236; 296; 323; 350; 373; 399; 419; 444; 461; 489; 524; 551; 575; 593; 610; 645; 667; 692; 728; 764; 803; 821; 840; 860; 877; 894; 914; 933; 963; 987; 1008; 1030; 1059; 1088; 1130; 1213; 1251; 1275; 1298; 1327; 1371; 1393; 1425; 1461; 1478; 1499; 1536; 1556; 1573; 1590; 1625; 1643; 1661; 1678; 1702; 1724; 1751; 1779; 1805; 1843; 1864; 1881; 1899; 1922; 1943; 1971; 1994; 2015; 2033; 2054; 2071; 2094; 2118; 2138; 2156; 2178; 2209; 2231; 2257; 2276; 2293; 2321; 2340; 2359; 2377; 2395; 2416; 2438; 2462; 2495; 2515; 2533; 2554; 2580; 2607; 2624; 2641; 2658; 2684; 2706; 2728; 2746; 2766; 2785; 2807; 2845; 2865; 2889; 2909; 2929; 2956; 2980; 3013; 3032; 3060; 3082; 3111; 3139; 3164; 3183; 3202; 3223; 3240; 3257; 3288; 3315; 3335; 3358; 3378; 3415; 3432; 3451; 3477; 3497; 3536; 3563; 3582; 3600; 3637; 3655; 3696; 3714; 3740; 3757; 3789; 3818; 3846; 3867; 3890; 3909; 3930; 3948; 3965; 3983; 4009; 4030; 4050; 4070; 4088; 4109; 4135; 4152; 4171; 4190; 4219; 4238; 4256; 4275; 4293; 4311; 4334
MspR9I	CC!NGG	16	146; 898; 899; 1914; 1969; 1986; 2382; 2542; 2765; 3155; 3344; 3447; 3919; 4137; 4150; 4271
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1128
MvaI	CC!WGG	10	146; 1914; 1969; 1986; 2765; 3344; 3447; 4137; 4150; 4271
Mva1269I	GAATGCN!	1	1129
Mva1269I	G!CATTC	1	1222
MvnI	CG!CG	15	892; 1266; 1302; 1678; 1698; 1722; 1753; 2444; 2745; 3183; 3267; 3330; 3399; 3672; 4253
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	21	117; 780; 1605; 1635; 1662; 1704; 1945; 2017; 2068; 2147; 2369; 2453; 2476; 2615; 2738; 2821; 3088; 3275; 3479; 3678; 4250
NaeI	GCC!GGC	3	1597; 2880; 3163
NarI	GG!CGCC	1	2378
NciI	CC!SGG	6	898; 899; 2382; 2542; 3155; 3919
NcoI	C!CATGG	2	2107; 2810
NdeI	CA!TATG	0	
NdeII	!GATC	21	723; 850; 901; 910; 1035; 2215; 2219; 2238; 2549; 2627; 2708; 2717; 2795; 3171; 3187; 3546; 3558; 3636; 3644; 3655; 3730
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NgoAVIII	TCANNNNNGTCTNNNNNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	3	1595; 2878; 3161
NheI	G!CTAGC	1	114
NlaIII	CATG!	16	138; 192; 627; 1808; 1948; 2020; 2111; 2252; 2597; 2783; 2814; 2840; 3196; 3580; 4300; 4351
NlaIV	GGN!NCC	17	569; 888; 896; 903; 1533; 1554; 1566; 1757; 1918; 1990; 2379; 2414; 3262; 3341; 3386; 4229; 4268
NlaCI	CATCACNNNNNNNNNNNNNNNNNNNN!	4	836; 1210; 1525; 3117
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	523; 4189
Nli3877I	CYCGR!G	2	858; 901
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNNNN!	2	2167; 2603
NmeAIII	!NNNNNNNNNNNNNNNNNNNNCTCGGC	1	2132
NmeDI	RCCGGYNNNNNNNN!	5	135; 1607; 2709; 2890; 3173
NmeDI	!NNNNNNNNNNNNRCCGGY	5	110; 1582; 2684; 2865; 3148
NmuCI	!GTSAC	6	40; 595; 993; 1667; 2498; 2804
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2480
NsiI	ATGCA!T	3	1950; 2022; 4353
NspI	RCATG!Y	4	1948; 2020; 2783; 4300
NspV	TT!CGAA	2	868; 3060
OliI	CACNN!NNGTG	1	593
PabI	GTA!C	6	99; 454; 845; 889; 941; 2685
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	1948; 2020; 2783
PaeR7I	C!TCGAG	1	854
PagI	T!CATGA	2	1804; 3576
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3343; 3446
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2199
PciI	A!CATGT	1	4296
PciSI	GCTCTCN!	1	635
PciSI	!NNNNGAAGAGC	2	2722; 2932
PcsI	WCGNNNN!NNNCGW	8	605; 716; 2672; 2749; 2992; 3066; 3459; 3977
PctI	GAATGCN!	1	1129
PctI	G!CATTC	1	1222
PdiI	GCC!GGC	3	1597; 2880; 3163
PdmI	GAANN!NNTTC	1	371
PfeI	G!AWTC	8	149; 446; 731; 2863; 2997; 3107; 3144; 4322
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2496
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	2	144; 3153
PhoI	GG!CC	18	896; 1344; 1486; 2141; 2147; 2156; 2199; 2286; 2460; 2851; 2878; 3387; 3444; 3477; 3822; 4256; 4274; 4285
PinAI	A!CCGGT	1	123
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	2759
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	2324; 2579
PleI	GAGTCNNNN!	2	1429; 1861
PleI	!NNNNNGACTC	5	745; 826; 1437; 3043; 3920
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	1460
PpiI	!NNNNNNNNNGAGNNNNNGTTC	2	167; 3590
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	2	199; 3622
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1428
PpsI	GAGTCNNNN!	2	1429; 1861
PpsI	!NNNNNGACTC	5	745; 826; 1437; 3043; 3920
Ppu10I	A!TGCAT	3	1946; 2018; 4349
Ppu21I	YAC!GTR	2	1494; 2682
PpuMI	RG!GWCCY	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PscI	A!CATGT	1	4296
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	5	83; 680; 955; 1161; 1366
Psp03I	GGWC!C	3	538; 2897; 3342
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	10	144; 1912; 1967; 1984; 2763; 3342; 3445; 4135; 4148; 4269
Psp1406I	AA!CGTT	1	500
Psp124BI	GAGCT!C	1	861
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	10	144; 1912; 1967; 1984; 2763; 3342; 3445; 4135; 4148; 4269
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	17	569; 888; 896; 903; 1533; 1554; 1566; 1757; 1918; 1990; 2379; 2414; 3262; 3341; 3386; 4229; 4268
PspOMI	G!GGCCC	1	894
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	2	2108; 3107
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2510
PspPI	G!GNCC	9	535; 894; 895; 1485; 2894; 3339; 3385; 3443; 3476
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	1931; 2003; 3509
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	3	387; 1844; 3039
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	1	444
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	1	476
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3479
PstI	CTGCA!G	1	879
PstNI	CAGNNN!CTG	2	3479; 3887
PsuI	R!GATCY	10	850; 901; 910; 2549; 2795; 3187; 3546; 3558; 3644; 3655
Psyl	GACN!NNGTC	1	2496
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	1876; 2484
RcaI	T!CATGA	2	1804; 3576
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	2893
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	1107
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	98; 453; 844; 888; 940; 2684
RsaNI	G!TAC	6	97; 452; 843; 887; 939; 2683
RseI	CAYNN!NNRTG	3	561; 593; 2815
RsrII	CG!GWCCG	1	2894
Rsr2I	CG!GWCCG	1	2894
SacI	GAGCT!C	1	861
SacII	CCGC!GG	1	893
SalI	G!TCGAC	1	880
SapI	GCTCTCN!	1	635
SapI	!NNNNGAAGAGC	2	2722; 2932
SaqAI	T!TAA	19	179; 509; 560; 620; 668; 1079; 1140; 1261; 1282; 1293; 1305; 1316; 1333; 1431; 1702; 3521; 3535; 3540; 3592
SatI	GC!NGC	28	112; 1155; 1674; 1696; 1710; 2148; 2287; 2339; 2350; 2440; 2445; 2482; 2523; 2610; 2616; 2852; 2948; 2989; 3003; 3117; 3456; 3471; 3682; 3888; 3891; 3956; 4099; 4254
Sau96I	G!GNCC	9	535; 894; 895; 1485; 2894; 3339; 3385; 3443; 3476
Sau3AI	!GATC	21	723; 850; 901; 910; 1035; 2215; 2219; 2238; 2549; 2627; 2708; 2717; 2795; 3171; 3187; 3546; 3558; 3636; 3644; 3655; 3730

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1430; 1862
SchI	!NNNNNGACTC	5	745; 826; 1437; 3043; 3920
SciI	CTC!GAG	1	856
ScrFI	CC!NGG	16	146; 898; 899; 1914; 1969; 1986; 2382; 2542; 2765; 3155; 3344; 3447; 3919; 4137; 4150; 4271
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	4	1956; 2028; 2197; 4139
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	123; 2533; 3018
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	12	294; 785; 861; 898; 1569; 2324; 2417; 2491; 2681; 2743; 3453; 3986
SelI	!CGCG	15	890; 1264; 1300; 1676; 1696; 1720; 1751; 2442; 2743; 3181; 3265; 3328; 3397; 3670; 4251
SetI	ASST!	59	47; 203; 231; 483; 503; 531; 587; 593; 648; 659; 695; 776; 821; 840; 861; 867; 919; 933; 995; 1068; 1089; 1098; 1110; 1159; 1326; 1441; 1453; 1496; 1533; 1583; 1606; 1730; 1878; 1973; 2166; 2279; 2407; 2486; 2497; 2569; 2640; 2684; 2944; 3090; 3134; 3465; 3496; 3555; 3598; 3741; 3762; 3861; 3998; 4013; 4032; 4044; 4088; 4134; 4185
SexAI	A!CCWGGT	1	1967
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	6	1194; 1957; 2029; 2677; 2741; 3016
SfaNI	!NNNNNNNNNGATGC	5	533; 2336; 2591; 2807; 4199
SfcI	C!TRYAG	5	323; 875; 1713; 3840; 4031
SfiI	GGCCNNNN!NGGCC	1	2153
SfoI	GGC!GCC	1	2379
Sfr274I	C!TCGAG	1	854
Sfr303I	CCGC!GG	1	893
SfuI	TT!CGAA	2	868; 3060
SgeI	CNNGNNNNNNNNNN!	166	6; 57; 120; 136; 157; 174; 201; 223; 358; 376; 399; 412; 425; 447; 487; 550; 601; 619; 636; 649; 718; 732; 754; 796; 829; 848; 866; 903; 920; 940; 1003; 1038; 1085; 1114; 1156; 1239; 1277; 1313; 1397; 1419; 1451; 1488; 1506; 1525; 1540; 1582; 1599; 1616; 1651; 1665; 1682; 1704; 1728; 1752; 1817; 1831; 1869; 1885; 1925; 1938; 1957; 1980; 1997; 2010; 2029; 2059; 2080; 2097; 2120; 2155; 2182; 2213; 2235; 2261; 2283; 2302; 2330; 2366; 2385; 2408; 2422; 2442; 2455; 2469; 2488; 2502; 2521; 2553; 2567; 2580; 2606; 2637; 2650; 2667; 2684; 2698; 2715; 2733; 2748; 2776; 2792; 2811; 2833; 2849; 2872; 2891; 2916; 2935; 2955; 2982; 3006; 3039; 3058; 3086; 3100; 3166; 3190; 3205; 3228; 3249; 3266; 3314; 3341; 3355; 3384; 3408; 3441; 3458; 3478; 3491; 3504; 3562; 3589; 3608; 3638; 3663; 3683; 3697; 3722; 3740; 3777; 3815; 3844; 3872; 3886; 3906; 3921; 3942; 3956; 3975; 3993; 4009; 4049; 4069; 4096; 4114; 4135; 4148; 4161; 4178; 4202; 4225; 4257; 4282; 4309; 4331
SgeI	!NNNNNNNNNNNNNCNNG	145	31; 94; 121; 148; 175; 197; 332; 350; 373; 399; 421; 461; 524; 575; 593; 610; 692; 728; 770; 803; 822; 840; 877; 894; 914; 977; 1012; 1059; 1088; 1130; 1213; 1251; 1287; 1371; 1393; 1425; 1462; 1480; 1499; 1556; 1573; 1590; 1625; 1643; 1663; 1683; 1702; 1726; 1791; 1843; 1899; 1931; 1954; 1971; 2003; 2033; 2054; 2071; 2094; 2129; 2156; 2187; 2209; 2235; 2257; 2276; 2304; 2340; 2359; 2382; 2403; 2421; 2438; 2462; 2495; 2527; 2554; 2580; 2611; 2641; 2658; 2684; 2707; 2728; 2750; 2770; 2790; 2807; 2846; 2865; 2890; 2909; 2929; 2956; 2980; 3013; 3032; 3060; 3082; 3140; 3164; 3183; 3202; 3223; 3240; 3288; 3315; 3335; 3358; 3382; 3415; 3432; 3452; 3478; 3536; 3563; 3582; 3612; 3637; 3657; 3696; 3714; 3751; 3789; 3818; 3846; 3867; 3895; 3916; 3949; 3967; 4023; 4043; 4070; 4088; 4109; 4135; 4152; 4176; 4199; 4231; 4256; 4283; 4305; 4334
Sgfi	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	893
SgrDI	CG!TCGACG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1525; 3312; 4105
SimI	!GACCC	3	2806; 3374; 3622
SinI	G!GWCC	3	535; 2894; 3339
SlaI	C!TCGAG	1	854
SmaI	CCC!GGG	1	899
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	3	561; 593; 2815
SmlI	C!TYRAG	7	637; 854; 860; 2769; 3651; 3928; 4190
SmoI	C!TYRAG	7	637; 854; 860; 2769; 3651; 3928; 4190
SmuI	CCCGCNNNN!	5	1700; 2055; 2076; 3272; 3404
SmuI	!NNNNNNGCGGG	6	885; 1631; 2501; 3038; 3176; 3323
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	1948; 2020; 2783
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	15	60; 455; 519; 737; 870; 974; 1128; 1192; 1270; 1296; 1307; 1954; 2026; 2118; 3536
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2199
SsiI	C!CGC	25	890; 1693; 1696; 1710; 1800; 2048; 2060; 2069; 2081; 2091; 2102; 2148; 2287; 2350; 2852; 2897; 2963; 2989; 3114; 3117; 3265; 3397; 3704; 3848; 4344
SsiI	G!CGG	21	892; 1638; 1665; 1753; 1863; 2444; 2508; 2609; 2612; 2892; 2947; 3045; 3183; 3330; 3470; 3713; 3958; 4079; 4098; 4225; 4253
SspI	AAT!ATT	3	618; 1286; 1839
SspDI	G!GCGCC	1	2377
SspD5I	GGTGANNNNNNNN!	4	241; 493; 3449; 3565
SspD5I	!NNNNNNNTCACC	2	1494; 2555
SstI	GAGCT!C	1	861
SstII	CCGC!GG	1	893
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	13	904; 1577; 1699; 2054; 2075; 2388; 2791; 2930; 3001; 3271; 3403; 3633; 4071
Sth132I	!NNNNNNNCCGGG	16	884; 1578; 1630; 1731; 2458; 2500; 2533; 3037; 3146; 3175; 3322; 3426; 3457; 3910; 3954; 4162
Sth302II	CC!GG	19	125; 899; 909; 1597; 2284; 2361; 2383; 2411; 2542; 2632; 2699; 2880; 3155; 3163; 3255; 3729; 3919; 3945; 4092
StrI	C!TCGAG	1	854
StsI	GGATGNNNNNNNNNN!	4	2246; 2703; 2728; 3182
StsI	!NNNNNNNNNNNNNNCATCC	2	300; 2050
StuI	AGG!CCT	1	2199
StyI	C!CWWGG	4	2107; 2200; 2810; 3215
StyD4I	!CCNGG	16	144; 896; 897; 1912; 1967; 1984; 2380; 2540; 2763; 3153; 3342; 3445; 3917; 4135; 4148; 4269
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	11	279; 535; 886; 1469; 2758; 2874; 2982; 3305; 3796; 4266; 4337
TaiI	ACGT!	11	203; 503; 593; 1441; 1453; 1496; 1606; 2497; 2684; 3465; 3598
TaqI	T!CGA	17	434; 476; 734; 855; 868; 881; 1527; 2218; 2491; 2647; 2671; 2707; 2869; 3060; 3105; 3360; 4198
TaqII	GACCGANNNNNNNNNN!	3	1398; 2415; 3083
TaqII	!NNNNNNNNNTCGGTC	1	3327
TaqII	CACCCANNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	2	2282; 2874
TasI	!AATT	15	60; 455; 519; 737; 870; 974; 1128; 1192; 1270; 1296; 1307; 1954; 2026; 2118; 3536
TatI	W!GTACW	4	96; 451; 842; 938
TauI	GCSG!C	15	1698; 1712; 2150; 2289; 2352; 2447; 2612; 2615; 2854; 2950; 2991; 3119; 3473; 4101; 4256
TfiI	G!AWTC	8	149; 446; 731; 2863; 2997; 3107; 3144; 4322
TliI	C!TCGAG	1	854
TruII	T!TAA	19	179; 509; 560; 620; 668; 1079; 1140; 1261; 1282; 1293; 1305; 1316; 1333; 1431; 1702; 3521; 3535; 3540; 3592

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Tru9I	T!TAA	19	179; 509; 560; 620; 668; 1079; 1140; 1261; 1282; 1293; 1305; 1316; 1333; 1431; 1702; 3521; 3535; 3540; 3592
TscAI	CASTGNN!	7	284; 545; 1224; 2507; 3617; 3888; 3901
TseI	G!CWGC	14	111; 1154; 1673; 2338; 2439; 2481; 2522; 2615; 3002; 3455; 3681; 3887; 3890; 3955
TsoI	TARCCANNNNNNNNNNN!	2	1350; 1697
TsoI	!NNNNNNNNNTGGYTA	2	1155; 2907
Tsp45I	!GTSAC	6	40; 595; 993; 1667; 2498; 2804
Tsp509I	!AATT	15	60; 455; 519; 737; 870; 974; 1128; 1192; 1270; 1296; 1307; 1954; 2026; 2118; 3536
TspDTI	ATGAANNNNNNNNNNN!	4	151; 1136; 2437; 3141
TspDTI	!NNNNNNNNNTTCAT	4	322; 2855; 3311; 3518
TspEI	!AATT	15	60; 455; 519; 737; 870; 974; 1128; 1192; 1270; 1296; 1307; 1954; 2026; 2118; 3536
TspGWI	ACGGANNNNNNNNNNN!	3	353; 614; 3253
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	897
TspRI	CASTGNN!	7	284; 545; 1224; 2507; 3617; 3888; 3901
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	2	332; 593
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	2	364; 625
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2496
Tth111II	CAARCANNNNNNNNNNN!	2	403; 3705
Tth111III	!NNNNNNNNNTGYTTG	3	2813; 3673; 3712
UnbI	!GNCC	9	534; 893; 894; 1484; 2893; 3338; 3384; 3442; 3475
Van9II	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	1	3982
VpaK11AI	!GGWCC	3	534; 2893; 3338
VpaK11BI	G!GWCC	3	535; 2894; 3339
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	5	737; 870; 1192; 1296; 1307
XbaI	T!CTAGA	0	
XceI	RCATG!Y	4	1948; 2020; 2783; 4300
XcmI	CCANNNNN!NNNNTGG	1	818
XhoI	C!TCGAG	1	854
XhoII	R!GATCY	10	850; 901; 910; 2549; 2795; 3187; 3546; 3558; 3644; 3655
XmaI	C!CCGGG	1	897
XmaJI	C!CTAGG	2	2200; 3215
XmiI	GT!MKAC	1	881
XmnI	GAANN!NNTTC	1	371
XspI	C!TAG	9	115; 914; 1026; 1227; 1645; 2201; 3216; 3550; 3803
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	1950; 2022; 4353