

Gateway® Dendra2-At-N 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; 746; 966; 1165; 1370
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1453; 2409; 4198
AatI	AGG!CCT	1	2203
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	163
AccII	CG!CG	15	174; 926; 1306; 1682; 1702; 1726; 1757; 2448; 2749; 3187; 3271; 3334; 3403; 3676; 4257
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2484
Acc36I	ACCTGCNNNN!	2	2650; 3100
Acc36I	!NNNNNNNNGCAGGT	1	2269
Acc65I	G!GTACC	1	168
AccB1I	G!GYRCC	4	168; 1535; 2381; 2416
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	1806; 2995
AccBSI	GAG!CGG	2	1642; 3049
AceIII	CAGCTCNNNNNNN!	1	1338
AceIII	!NNNNNNNNNNGAGCTG	0	
AciI	C!CGC	26	172; 924; 1697; 1700; 1714; 1804; 2052; 2064; 2073; 2085; 2095; 2106; 2152; 2291; 2354; 2856; 2901; 2967; 2993; 3118; 3121; 3269; 3401; 3708; 3852; 4348
AciI	G!CGG	22	174; 920; 1642; 1669; 1757; 1867; 2448; 2512; 2613; 2616; 2896; 2951; 3049; 3187; 3334; 3474; 3717; 3962; 4083; 4102; 4229; 4257
AclI	AA!CGTT	1	566
AclWI	GGATCNNNN!	9	191; 797; 2250; 2561; 2807; 3199; 3558; 3656; 3742
AclWI	!NNNNNGATCC	5	178; 2626; 3170; 3557; 3654
AcoI	Y!GGCCR	5	921; 2288; 2462; 2853; 2880
AcsI	R!AATY	5	152; 803; 1196; 1300; 1311
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	452; 2528; 2960
AcuI	!NNNNNNNNNNNNNCTTCAG	1	3758
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	3	2382; 3084; 3163
AdeI	CACNNN!GTG	2	786; 1498
AfaI	GT!AC	6	98; 170; 519; 910; 951; 2688
AfeI	AGC!GCT	1	119
AfiI	CCNNNNN!NNGG	18	319; 598; 882; 1394; 1720; 2112; 2363; 2907; 3188; 3220; 3352; 3387; 3437; 3469; 3822; 4101; 4267; 4285
AfIII	C!TTAAG	1	1264
AfIII	A!CRYGT	1	4300
AgeI	A!CCGGT	1	189
AgsI	TTS!AA	7	292; 453; 1793; 1837; 1847; 2260; 3836
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	10	210; 1916; 1971; 1988; 2767; 3346; 3449; 4139; 4152; 4273
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	659
AlfI	GCANNNNNNTGCNNNNNNNNNN!	3	872; 1956; 2028

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AlfI	!NNNNNNNNNNNGCANNNNNNNTGC	3	838; 1922; 1994
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1464
AloI	!NNNNNNNNGGANNNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNNGAACNNNNNNNTCC	1	1432
AluI	AG!CT	16	141; 147; 651; 840; 942; 1161; 1328; 1585; 1880; 2168; 2488; 2946; 3743; 4000; 4046; 4136
AluBI	AG!CT	16	141; 147; 651; 840; 942; 1161; 1328; 1585; 1880; 2168; 2488; 2946; 3743; 4000; 4046; 4136
AlwI	GGATCNNNN!	9	191; 797; 2250; 2561; 2807; 3199; 3558; 3656; 3742
AlwI	!NNNNNGATCC	5	178; 2626; 3170; 3557; 3654
Alw21I	GWGCW!C	6	143; 360; 851; 2495; 2685; 3990
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	5	890; 1806; 2224; 3243; 3371
Alw44I	G!TGCAC	1	3986
AlwNI	CAGNNN!CTG	2	3483; 3891
Ama87I	C!YCGRG	2	136; 179
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	119
ApaI	GGGCC!C	1	180
ApaBI	GCANNNNN!TGC	3	1950; 2022; 3484
ApaLI	G!TGCAC	1	3986
ApeKI	G!CWGC	14	111; 1158; 1677; 2342; 2443; 2485; 2526; 2619; 3006; 3459; 3685; 3891; 3894; 3959
ApoI	R!AATTY	5	152; 803; 1196; 1300; 1311
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2897
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	2691; 3344; 4182
AquI	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	2781
AquI	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2210
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	2	340; 850
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTTCCYC	1	2952
ArsI	GACNNNNNTTYGNNNNNNNNNNN!	1	798
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNGTCCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	1	766
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	20	133; 184; 790; 1040; 2220; 2224; 2243; 2554; 2632; 2713; 2722; 2800; 3176; 3192; 3551; 3563; 3641; 3649; 3660; 3735
AsiGI	A!CCGGT	1	189
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2500
Asp700I	GAANN!NNTTC	1	437
Asp718I	G!GTACC	1	168
AspA2I	C!CTAGG	2	2204; 3219
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	21	120; 1648; 1656; 1682; 1704; 1713; 1726; 1757; 2376; 2384; 2448; 2485; 2751; 3011; 3187; 3273; 3676; 3785; 3959; 4059; 4126
AspS9I	G!GNCC	10	176; 177; 601; 935; 1489; 2898; 3343; 3389; 3447; 3480
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	150; 3064
AsuC2I	CC!SGG	6	180; 181; 2386; 2546; 3159; 3923
AsuHPI	GGTGANNNNNNNN!	4	307; 559; 3453; 3569
AsuHPI	!NNNNNNNTCACC	2	1499; 2560
AsuNHI	G!CTAGC	1	114
AvaI	C!YCGRG	2	136; 179
AvaII	G!GWCC	4	601; 935; 2898; 3343
AviII	TGC!GCA	1	2484
AvrII	C!CTAGG	2	2204; 3219
AxyI	CC!TNAGG	3	467; 1862; 3494
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	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	180; 2328; 2421; 3990
BalI	TGG!CCA	1	2464
BamHI	G!GATCC	1	183
BanI	G!GYRCC	4	168; 1535; 2381; 2416
BanII	GRGCY!C	5	143; 180; 1573; 2747; 3457
BanIII	AT!CGAT	1	2222
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	0	
BauI	C!ACGAG	2	3100; 4127
BauI	C!TCGTG	2	673; 2974
BbeI	GGCGC!C	1	2385
Bbr7I	GAAGACNNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNNGTCTTC	0	
BbuI	GCATG!C	3	1952; 2024; 2787
BbvI	GCAGCNNNNNNNN!	6	1170; 2455; 2497; 3018; 3471; 3971
BbvI	!NNNNNNNNNNNGCTGC	7	98; 1664; 2329; 2513; 2606; 3672; 3878
Bbv12I	GWGCW!C	6	143; 360; 851; 2495; 2685; 3990
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	885; 1512; 2076; 2602; 3104
BccI	!NNNNNGATGG	3	1480; 2260; 2688
BceAI	ACGGCNNNNNNNNNNNN!	2	2808; 3295
BceAI	!NNNNNNNNNNNNNGCCGT	3	1523; 2341; 3800
Bcefl	ACGGCNNNNNNNNNNNN!	2	2808; 3295
Bcefl	!NNNNNNNNNNNNNGCCGT	3	1524; 2342; 3801
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	1811; 2601; 4102
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	6	180; 181; 2386; 2546; 3159; 3923
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNNN!	1	4235
BdaI	!NNNNNNNNNNTGANNNNNNNTCA	1	4201
BfaI	C!TAG	9	115; 932; 1037; 1231; 1649; 2205; 3220; 3554; 3807
BfiI	ACTGGGNNNNN!	1	2331
BfiI	!NNNCCCAGT	1	2083
BfmI	C!TRYAG	5	157; 389; 1717; 3844; 4035
BfoI	RGCGC!Y	5	121; 1649; 1657; 2385; 4060
BfrI	C!TTAAG	1	1264
BfuI	GTATCCNNNNNN!	3	1811; 2601; 4102
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	2650; 3100
BfuAI	!NNNNNNNNNGCAGGT	1	2269
BfuCI	!GATC	20	132; 183; 789; 1039; 2219; 2223; 2242; 2553; 2631; 2712; 2721; 2799; 3175; 3191; 3550; 3562; 3640; 3648; 3659; 3734
BglI	GCCNNNN!NGGC	1	2157
BglII	A!GATCT	1	132
BisI	GC!NGC	30	112; 921; 924; 1159; 1678; 1700; 1714; 2152; 2291; 2343; 2354; 2444; 2449; 2486; 2527; 2614; 2620; 2856; 2952; 2993; 3007; 3121; 3460; 3475; 3686; 3892; 3895; 3960; 4103; 4258
BlnI	C!CTAGG	2	2204; 3219
BlpI	GC!TNAGC	0	

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BlsI	GCN!GC	30	113; 922; 925; 1160; 1679; 1701; 1715; 2153; 2292; 2344; 2355; 2445; 2450; 2487; 2528; 2615; 2621; 2857; 2953; 2994; 3008; 3122; 3461; 3476; 3687; 3893; 3896; 3961; 4104; 4259
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	4	601; 935; 2898; 3343
Bme1390I	CC!NGG	16	180; 181; 212; 1918; 1973; 1990; 2386; 2546; 2769; 3159; 3348; 3451; 3923; 4141; 4154; 4275
BmeRI	GACNN!NNGTC	0	
BmeT110I	C!YCGRG	2	136; 179
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	10	177; 178; 602; 936; 1490; 2899; 3344; 3390; 3448; 3481
BmiI	GGN!NCC	18	170; 178; 185; 635; 937; 1537; 1558; 1570; 1761; 1922; 1994; 2383; 2418; 3266; 3345; 3390; 4233; 4272
BmrI	ACTGGGNNNNN!	1	2331
BmrI	!NNNNCCCAGT	1	2083
BmrFI	CC!NGG	16	180; 181; 212; 1918; 1973; 1990; 2386; 2546; 2769; 3159; 3348; 3451; 3923; 4141; 4154; 4275
BmsI	GCATCNNNNN!	6	1198; 1961; 2033; 2681; 2745; 3020
BmsI	!NNNNNNNNNGATGC	5	599; 2340; 2595; 2811; 4203
BmtI	GCTAG!C	1	118
BmuI	ACTGGGNNNNN!	1	2331
BmuI	!NNNNCCCAGT	1	2083
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2171; 3070
BpI	!NNNNNNNNGAGNNNNNCTC	2	2139; 3038
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	914; 3222
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3165
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	150; 3064
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	724; 3676; 4215
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	127; 2758; 3917
BpuMI	CC!SGG	6	180; 181; 2386; 2546; 3159; 3923
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3371
Bsa29I	AT!CGAT	1	2222
BsaAI	YAC!GTR	2	1498; 2686
BsaBI	GATNN!NNATC	2	1044; 2241
BsaHI	GR!CGYC	3	2382; 3084; 3163
BsaJI	C!CNNGG	16	172; 179; 1916; 1988; 2111; 2146; 2155; 2204; 2545; 2814; 3219; 3346; 3347; 3449; 3450; 4140
BsaMI	GAATGCN!	1	1133
BsaMI	G!CATTC	1	1226
BsaWI	W!CCGGW	6	123; 189; 2413; 3257; 3947; 4094
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1462
BsaXI	!NNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1432
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTTG	2	1383; 3290
Bsc4I	CCNNNNN!NNGG	18	319; 598; 882; 1394; 1720; 2112; 2363; 2907; 3188; 3220; 3352; 3387; 3437; 3469; 3822; 4101; 4267; 4285
BscAI	GCATCNNNN!	6	1197; 1960; 2032; 2680; 2744; 3019
BscAI	!NNNNNNGATGC	5	602; 2343; 2598; 2814; 4206
Bse1I	ACTGGN!	3	2326; 2527; 3773
Bse1I	C!CAGT	5	604; 1411; 2089; 3885; 3898
Bse8I	GATNN!NNATC	2	1044; 2241
Bse21I	CC!TNAGG	3	467; 1862; 3494
Bse118I	R!CCGGY	5	189; 1599; 2701; 2882; 3165

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BseAI	T!CCGGA	0	
BseBI	CC!WGG	10	212; 1918; 1973; 1990; 2769; 3348; 3451; 4141; 4154; 4275
BseCI	AT!CGAT	1	2222
BseDI	C!CNNGG	16	172; 179; 1916; 1988; 2111; 2146; 2155; 2204; 2545; 2814; 3219; 3346; 3347; 3449; 3450; 4140
Bse3DI	GCAATGNN!	2	77; 2615
Bse3DI	!CATTGC	1	974
BseGI	GGATGNN!	4	2242; 2699; 2724; 3178
BseGI	!CATCC	2	380; 2068
BseJI	GATNN!NNATC	2	1044; 2241
BseLI	CCNNNNN!NNGG	18	319; 598; 882; 1394; 1720; 2112; 2363; 2907; 3188; 3220; 3352; 3387; 3437; 3469; 3822; 4101; 4267; 4285
BseMI	GCAATGNN!	2	77; 2615
BseMI	!CATTGC	1	974
BseMII	CTCAGNNNNNNNNNN!	4	143; 833; 914; 3508
BseMII	!NNNNNNNNCTGAG	6	458; 1853; 2155; 3036; 3608; 4017
BseNI	ACTGGN!	3	2326; 2527; 3773
BseNI	C!CAGT	5	604; 1411; 2089; 3885; 3898
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2200
BseRI	!NNNNNNNNCTCCTC	2	350; 860
BseSI	GKGCMI!C	4	180; 2328; 2421; 3990
BseXI	GCAGCNNNNNNNN!	6	1170; 2455; 2497; 3018; 3471; 3971
BseXI	!NNNNNNNNNNNGCTGC	7	98; 1664; 2329; 2513; 2606; 3672; 3878
BseX3I	C!GGCCG	2	921; 2288
BseYI	C!CCAGC	4	938; 1925; 1997; 3996
BseYI	G!CTGGG	1	2886
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	15	174; 926; 1306; 1682; 1702; 1726; 1757; 2448; 2749; 3187; 3271; 3334; 3403; 3676; 4257
Bsh1285I	CGRY!CG	4	194; 924; 2291; 3966
BshFI	GG!CC	19	178; 923; 1348; 1490; 2145; 2151; 2160; 2203; 2290; 2464; 2855; 2882; 3391; 3448; 3481; 3826; 4260; 4278; 4289
BshNI	G!GYRCC	4	168; 1535; 2381; 2416
BshTI	A!CCGGT	1	189
BshVI	AT!CGAT	1	2222
BsiEI	CGRY!CG	4	194; 924; 2291; 3966
BsiHKAI	GWGCW!C	6	143; 360; 851; 2495; 2685; 3990
BsiHKCI	C!YCGRG	2	136; 179
BsiSI	C!CGG	19	124; 180; 190; 1600; 2287; 2364; 2386; 2414; 2545; 2635; 2702; 2883; 3158; 3166; 3258; 3732; 3922; 3948; 4095
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	18	319; 598; 882; 1394; 1720; 2112; 2363; 2907; 3188; 3220; 3352; 3387; 3437; 3469; 3822; 4101; 4267; 4285
BsIFI	GGGACNNNNNNNNNN!	3	2533; 3065; 3174
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1898; 1970; 2034; 3329
BsmI	GAATGCN!	1	1133
BsmI	G!CATTC	1	1226
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	5	890; 1806; 2224; 3243; 3371
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2533; 3065; 3174
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1898; 1970; 2034; 3329
BsnI	GG!CC	19	178; 923; 1348; 1490; 2145; 2151; 2160; 2203; 2290; 2464; 2855; 2882; 3391; 3448; 3481; 3826; 4260; 4278; 4289
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3371
BsoBI	C!YCGRG	2	136; 179
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	2	2111; 2814
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	691; 3185
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	3606; 3784
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3638; 3816
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	659; 3153

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Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	150; 3064
Bsp120I	G!GGCCC	1	176
Bsp143I	!GATC	20	132; 183; 789; 1039; 2219; 2223; 2242; 2553; 2631; 2712; 2721; 2799; 3175; 3191; 3550; 3562; 3640; 3648; 3659; 3734
Bsp1286I	GDGCH!C	12	143; 180; 360; 851; 1573; 2328; 2421; 2495; 2685; 2747; 3457; 3990
Bsp1407I	T!GTACA	4	96; 517; 908; 949
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	26	172; 924; 1697; 1700; 1714; 1804; 2052; 2064; 2073; 2085; 2095; 2106; 2152; 2291; 2354; 2856; 2901; 2967; 2993; 3118; 3121; 3269; 3401; 3708; 3852; 4348
BspACI	G!CGG	22	174; 920; 1642; 1669; 1757; 1867; 2448; 2512; 2613; 2616; 2896; 2951; 3049; 3187; 3334; 3474; 3717; 3962; 4083; 4102; 4229; 4257
BspCNI	CTCAGNNNNNNNN!	4	142; 832; 913; 3507
BspCNI	!NNNNNNNCTGAG	6	459; 1854; 2156; 3037; 3609; 4018
BspDI	AT!CGAT	1	2222
BspD6I	GACTCNNNN!	7	135; 825; 906; 936; 1455; 3061; 3938
BspD6I	!NNNNNNGAGTC	2	1418; 1850
BspEI	T!CCGGA	0	
BspFNI	CG!CG	15	174; 926; 1306; 1682; 1702; 1726; 1757; 2448; 2749; 3187; 3271; 3334; 3403; 3676; 4257
BspHI	T!CATGA	2	1808; 3580
BspLI	GGN!NCC	18	170; 178; 185; 635; 937; 1537; 1558; 1570; 1761; 1922; 1994; 2383; 2418; 3266; 3345; 3390; 4233; 4272
BspMI	ACCTGCNNNN!	2	2650; 3100
BspMI	!NNNNNNNNGCAGGT	1	2269
BspOI	GCTAG!C	1	118
BspPI	GGATCNNNN!	9	191; 797; 2250; 2561; 2807; 3199; 3558; 3656; 3742
BspPI	!NNNNNGATCC	5	178; 2626; 3170; 3557; 3654
BspQI	GCTCTCN!	1	701
BspQI	!NNNNGAAGAGC	2	2726; 2936
BspTI	C!TTAAG	1	1264
BspT104I	TT!CGAA	2	150; 3064
BspT107I	G!GYRCC	4	168; 1535; 2381; 2416
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3371
BsrI	ACTGGN!	3	2326; 2527; 3773
BsrI	C!CAGT	5	604; 1411; 2089; 3885; 3898
BsrBI	CCG!CTC	2	1806; 2995
BsrBI	GAG!CGG	2	1642; 3049
BsrDI	GCAATGNN!	2	77; 2615
BsrDI	!CATTGC	1	974
BsrFI	R!CCGGY	5	189; 1599; 2701; 2882; 3165
BsrGI	T!GTACA	4	96; 517; 908; 949
BsrSI	ACTGGN!	3	2326; 2527; 3773
BsrSI	C!CAGT	5	604; 1411; 2089; 3885; 3898
BssAI	R!CCGGY	5	189; 1599; 2701; 2882; 3165
BssECI	C!CNNGG	16	172; 179; 1916; 1988; 2111; 2146; 2155; 2204; 2545; 2814; 3219; 3346; 3347; 3449; 3450; 4140
BssHII	G!CGCGC	0	
BssKI	!CCNGG	16	178; 179; 210; 1916; 1971; 1988; 2384; 2544; 2767; 3157; 3346; 3449; 3921; 4139; 4152; 4273
BssMI	!GATC	20	132; 183; 789; 1039; 2219; 2223; 2242; 2553; 2631; 2712; 2721; 2799; 3175; 3191; 3550; 3562; 3640; 3648; 3659; 3734
BssNI	GR!CGYC	3	2382; 3084; 3163
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3100; 4127
BssSI	C!TCGTG	2	673; 2974
BssTII	C!CWWGG	4	2111; 2204; 2814; 3219
Bst6I	CTCTCN!	1	701
Bst6I	!NNNNGAAGAG	3	1849; 2726; 2936
Bst98I	C!TTAAG	1	1264
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	3	2382; 3084; 3163

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstAFI	C!TTAAG	1	1264
BstAPI	GCANNNN!NTGC	3	1949; 2021; 3483
BstAUI	T!GTACA	4	96; 517; 908; 949
BstBI	TT!CGAA	2	150; 3064
Bst2BI	C!ACGAG	2	3100; 4127
Bst2BI	C!TCGTG	2	673; 2974
BstBAI	YAC!GTR	2	1498; 2686
Bst4CI	ACN!GT	11	168; 345; 601; 1473; 2762; 2878; 2986; 3309; 3800; 4270; 4341
BstC8I	GCN!NGC	28	109; 116; 176; 851; 1601; 1644; 1658; 1931; 1950; 2003; 2022; 2276; 2462; 2681; 2747; 2753; 2785; 2826; 2830; 2884; 3167; 3354; 3401; 3457; 3479; 3690; 4250; 4287
BstDEI	C!TNAG	10	129; 467; 819; 900; 1862; 2164; 3045; 3494; 3617; 4026
BstDSI	C!CRYGG	3	172; 2111; 2814
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2242; 2699; 2724; 3178
BstF5I	!CATCC	2	380; 2068
BstFNI	CG!CG	15	174; 926; 1306; 1682; 1702; 1726; 1757; 2448; 2749; 3187; 3271; 3334; 3403; 3676; 4257
BstH2I	RGCGC!Y	5	121; 1649; 1657; 2385; 4060
BstHHI	GCG!C	21	120; 1648; 1656; 1682; 1704; 1713; 1726; 1757; 2376; 2384; 2448; 2485; 2751; 3011; 3187; 3273; 3676; 3785; 3959; 4059; 4126
BstKTI	GAT!C	20	135; 186; 792; 1042; 2222; 2226; 2245; 2556; 2634; 2715; 2724; 2802; 3178; 3194; 3553; 3565; 3643; 3651; 3662; 3737
BstMAI	GTCTCN!	0	
BstMAI	!NNNNNGAGAC	5	890; 1806; 2224; 3243; 3371
BstMBI	!GATC	20	132; 183; 789; 1039; 2219; 2223; 2242; 2553; 2631; 2712; 2721; 2799; 3175; 3191; 3550; 3562; 3640; 3648; 3659; 3734
BstMCI	CGRY!CG	4	194; 924; 2291; 3966
BstMWI	GCNNNNN!NNGC	21	117; 846; 1609; 1639; 1666; 1708; 1949; 2021; 2072; 2151; 2373; 2457; 2480; 2619; 2742; 2825; 3092; 3279; 3483; 3682; 4254
BstNI	CC!WGG	10	212; 1918; 1973; 1990; 2769; 3348; 3451; 4141; 4154; 4275
BstNSI	RCATG!Y	4	1952; 2024; 2787; 4304
BstOI	CC!WGG	10	212; 1918; 1973; 1990; 2769; 3348; 3451; 4141; 4154; 4275
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	16	178; 179; 210; 1916; 1971; 1988; 2384; 2544; 2767; 3157; 3346; 3449; 3921; 4139; 4152; 4273
BstSFI	C!TRYAG	5	157; 389; 1717; 3844; 4035
BstSLI	GKGCM!C	4	180; 2328; 2421; 3990
BstSNI	TAC!GTA	0	
BstUI	CG!CG	15	174; 926; 1306; 1682; 1702; 1726; 1757; 2448; 2749; 3187; 3271; 3334; 3403; 3676; 4257
Bst2UI	CC!WGG	10	212; 1918; 1973; 1990; 2769; 3348; 3451; 4141; 4154; 4275
BstV1I	GCAGCNNNNNNNN!	6	1170; 2455; 2497; 3018; 3471; 3971
BstV1I	!NNNNNNNNNNNGCTGC	7	98; 1664; 2329; 2513; 2606; 3672; 3878
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNN!NTGG	0	
BstX2I	R!GATCY	9	132; 183; 2553; 2799; 3191; 3550; 3562; 3648; 3659
BstYI	R!GATCY	9	132; 183; 2553; 2799; 3191; 3550; 3562; 3648; 3659
BstZI	C!GGCCG	2	921; 2288
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	1811; 2601; 4102
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2222
Bsu36I	CC!TNAGG	3	467; 1862; 3494
BsuRI	GG!CC	19	178; 923; 1348; 1490; 2145; 2151; 2160; 2203; 2290; 2464; 2855; 2882; 3391; 3448; 3481; 3826; 4260; 4278; 4289
BsuTUI	AT!CGAT	1	2222
BtgI	C!CRYGG	3	172; 2111; 2814
BtgZI	GCGATGNNNNNNNNNN!	2	1499; 2834
BtgZI	!NNNNNNNNNNNNNCATCGC	2	2653; 2997

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BthCI	GCNG!C	30	114; 923; 926; 1161; 1680; 1702; 1716; 2154; 2293; 2345; 2356; 2446; 2451; 2488; 2529; 2616; 2622; 2858; 2954; 2995; 3009; 3123; 3462; 3477; 3688; 3894; 3897; 3962; 4105; 4260
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1221
BtsCI	GGATGNN!	4	2242; 2699; 2724; 3178
BtsCI	!CATCC	2	380; 2068
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	2650; 3100
BveI	!NNNNNNNNNGCAGGT	1	2269
Cac8I	GCN!NGC	28	109; 116; 176; 851; 1601; 1644; 1658; 1931; 1950; 2003; 2022; 2276; 2462; 2681; 2747; 2753; 2785; 2826; 2830; 2884; 3167; 3354; 3401; 3457; 3479; 3690; 4250; 4287
CaiI	CAGNNN!CTG	2	3483; 3891
CciI	T!CATGA	2	1808; 3580
CciNI	GC!GGCCGC	1	921
CdiI	CATC!G	4	2671; 2676; 2874; 3015
CdiI	C!GATG	2	1485; 2820
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4254
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	2	2043; 2085
CelII	GC!TNAGC	0	
CfoI	GCG!C	21	120; 1648; 1656; 1682; 1704; 1713; 1726; 1757; 2376; 2384; 2448; 2485; 2751; 3011; 3187; 3273; 3676; 3785; 3959; 4059; 4126
CfrI	Y!GGCCR	5	921; 2288; 2462; 2853; 2880
Cfr9I	C!CCGGG	1	179
Cfr10I	R!CCGGY	5	189; 1599; 2701; 2882; 3165
Cfr13I	G!GNCC	10	176; 177; 601; 935; 1489; 2898; 3343; 3389; 3447; 3480
Cfr42I	CCGC!GG	1	175
Chai	GATC!	20	136; 187; 793; 1043; 2223; 2227; 2246; 2557; 2635; 2716; 2725; 2803; 3179; 3195; 3554; 3566; 3644; 3652; 3663; 3738
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	902; 2199; 3639; 3739; 3817
CjeI	!NNNNNNNNNACNNNNNNNTGG	6	659; 1866; 1961; 3153; 3703; 4258
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	6	693; 1900; 1995; 3187; 3737; 4292
CjeI	!NNNNNNNNCCANNNNNNGT	5	868; 2165; 3605; 3705; 3783
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	4	225; 467; 3639; 3817
CjePI	!NNNNNNNNGANNNNNNNTGG	4	195; 659; 3153; 3752
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	4	228; 692; 3186; 3785
CjePI	!NNNNNNNNCCANNNNNNNNTC	4	192; 434; 3606; 3784
Clai	AT!CGAT	1	2222
CpoI	CG!GWCCG	1	2898
CseI	GACGCNNNNN!	3	784; 3092; 3171
CseI	!NNNNNNNNNNNGCGTC	3	1715; 3610; 4188
CsiI	A!CCWGGT	1	1971
CspI	CG!GWCCG	1	2898
Csp6I	G!TAC	6	97; 169; 518; 909; 950; 2687
Csp45I	TT!CGAA	2	150; 3064
CspAI	A!CCGGT	1	189
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	374; 1662; 3271
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	1	681
CviAII	C!ATG	16	201; 255; 690; 1809; 1949; 2021; 2112; 2253; 2598; 2784; 2815; 2841; 3197; 3581; 4301; 4352
CviJI	RG!CY	77	10; 111; 141; 147; 178; 636; 651; 694; 840; 923; 942; 1051; 1161; 1328; 1348; 1490; 1571; 1585; 1599; 1880; 1921; 1993; 2116; 2145; 2151; 2160; 2168; 2191; 2203; 2209; 2290; 2307; 2315; 2342; 2367; 2451; 2460; 2464; 2488; 2526; 2602; 2619; 2638; 2701; 2745; 2755; 2772; 2855; 2882; 2886; 2923; 2946; 2962; 3142; 3169; 3230; 3352; 3391; 3448; 3455; 3462; 3481; 3492; 3743; 3772; 3815; 3826; 3891; 3970; 3995; 4000; 4046; 4136; 4234; 4260; 4278; 4289

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	77	10; 111; 141; 147; 178; 636; 651; 694; 840; 923; 942; 1051; 1161; 1328; 1348; 1490; 1571; 1585; 1599; 1880; 1921; 1993; 2116; 2145; 2151; 2160; 2168; 2191; 2203; 2209; 2290; 2307; 2315; 2342; 2367; 2451; 2460; 2464; 2488; 2526; 2602; 2619; 2638; 2701; 2745; 2755; 2772; 2855; 2882; 2886; 2923; 2946; 2962; 3142; 3169; 3230; 3352; 3391; 3448; 3455; 3462; 3481; 3492; 3743; 3772; 3815; 3826; 3891; 3970; 3995; 4000; 4046; 4136; 4234; 4260; 4278; 4289
CviQI	G!TAC	6	97; 169; 518; 909; 950; 2687
DdeI	C!TNAG	10	129; 467; 819; 900; 1862; 2164; 3045; 3494; 3617; 4026
DinI	GGC!GCC	1	2383
DpnI	GA!TC	20	134; 185; 791; 1041; 2221; 2225; 2244; 2555; 2633; 2714; 2723; 2801; 3177; 3193; 3552; 3564; 3642; 3650; 3661; 3736
DpnII	!GATC	20	132; 183; 789; 1039; 2219; 2223; 2242; 2553; 2631; 2712; 2721; 2799; 3175; 3191; 3550; 3562; 3640; 3648; 3659; 3734
DraI	TTT!AAA	4	735; 1084; 3526; 3545
DraII	RG!GNCCY	2	935; 3480
DraIII	CACNNN!GTG	2	786; 1498
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	1	3862
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	1453; 2409; 4198
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1453; 2409; 4198
EaeI	Y!GGCCR	5	921; 2288; 2462; 2853; 2880
EagI	C!GGCCG	2	921; 2288
Eam1104I	CTCTCN!	1	701
Eam1104I	!NNNNGAAGAG	3	1849; 2726; 2936
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	1	701
EarI	!NNNNGAAGAG	3	1849; 2726; 2936
EciI	GGCGANNNNNNNNNNNN!	4	1882; 2911; 4098; 4244
EciI	!NNNNNNNNNTCCGCC	3	2053; 2074; 2095
Ecl136II	GAG!CTC	1	141
EclXI	C!GGCCG	2	921; 2288
Eco24I	GRGCY!C	5	143; 180; 1573; 2747; 3457
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	3371
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	601; 935; 2898; 3343
Eco47III	AGC!GCT	1	119
Eco52I	C!GGCCG	2	921; 2288
Eco57I	CTGAAGNNNNNNNNNNNNNN!	3	452; 2528; 2960
Eco57I	!NNNNNNNNNNNNNCTTCAG	1	3758
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	467; 1862; 3494
Eco88I	C!YCGRG	2	136; 179
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	4	2111; 2204; 2814; 3219
Eco147I	AGG!CCT	1	2203
EcoHI	!CCSGG	6	178; 179; 2384; 2544; 3157; 3921
EcoICRI	GAG!CTC	1	141
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	5	452; 914; 2528; 2960; 3222
Eco57MI	!NNNNNNNNNNNNNCTYCAG	2	3165; 3758
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	935; 3480
EcoRI	G!AATTC	1	152
EcoRII	!CCWGG	10	210; 1916; 1971; 1988; 2767; 3346; 3449; 4139; 4152; 4273
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	4	2111; 2204; 2814; 3219
EcoT22I	ATGCA!T	3	1954; 2026; 4357
EcoT38I	GRGCY!C	5	143; 180; 1573; 2747; 3457
Eco53kl	GAG!CTC	1	141

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EgeI	GGC!GCC	1	2383
EheI	GGC!GCC	1	2383
ErhI	C!CWGG	4	2111; 2204; 2814; 3219
EsaBC3I	TC!GA	17	138; 151; 164; 501; 543; 801; 1532; 2223; 2496; 2652; 2676; 2712; 2874; 3065; 3110; 3365; 4203
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	16	204; 258; 693; 1812; 1952; 2024; 2115; 2256; 2601; 2787; 2818; 2844; 3200; 3584; 4304; 4355
Fail	YA!TR	47	83; 202; 238; 256; 315; 377; 691; 746; 794; 845; 966; 1044; 1054; 1120; 1165; 1370; 1798; 1810; 1941; 1950; 2013; 2022; 2046; 2113; 2137; 2254; 2318; 2599; 2624; 2785; 2816; 2842; 2914; 3130; 3198; 3276; 3328; 3489; 3508; 3510; 3582; 3860; 4049; 4165; 4238; 4302; 4353
FalI	AAGNNNNCTTNNNNNNNNNN!	3	91; 995; 2722
FalI	!NNNNNNNAAGNNNNCTT	3	59; 963; 2690
FaqI	GGGACNNNNNNNN!	3	2533; 3065; 3174
FaqI	!NNNNNNNNNNNGTCCC	4	1898; 1970; 2034; 3329
FatI	!CATG	16	200; 254; 689; 1808; 1948; 2020; 2111; 2252; 2597; 2783; 2814; 2840; 3196; 3580; 4300; 4351
FauI	CCCGCNNNN!	5	1704; 2059; 2080; 3276; 3408
FauI	!NNNNNGCGGG	6	167; 1635; 2505; 3042; 3180; 3327
FauNDI	CA!TATG	0	
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	163
FmuI	GGNC!C	10	179; 180; 604; 938; 1492; 2901; 3346; 3392; 3450; 3483
Fnu4HI	GC!NGC	30	112; 921; 924; 1159; 1678; 1700; 1714; 2152; 2291; 2343; 2354; 2444; 2449; 2486; 2527; 2614; 2620; 2856; 2952; 2993; 3007; 3121; 3460; 3475; 3686; 3892; 3895; 3960; 4103; 4258
FokI	GGATGNNNNNNNN!	4	2249; 2706; 2731; 3185
FokI	!NNNNNNNNNNNCATCC	2	367; 2055
FriOI	GRGCY!C	5	143; 180; 1573; 2747; 3457
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2484
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	115; 932; 1037; 1231; 1649; 2205; 3220; 3554; 3807
FspEI	CCNNNNNNNNNN!	128	24; 58; 102; 137; 185; 200; 224; 326; 374; 397; 443; 479; 574; 604; 650; 667; 715; 736; 785; 884; 937; 951; 1065; 1104; 1118; 1259; 1354; 1378; 1401; 1424; 1442; 1464; 1485; 1504; 1523; 1552; 1573; 1587; 1613; 1701; 1727; 1776; 1817; 1835; 1874; 1890; 1928; 1985; 2000; 2057; 2077; 2091; 2108; 2122; 2159; 2174; 2217; 2300; 2367; 2398; 2418; 2433; 2478; 2492; 2558; 2572; 2591; 2607; 2648; 2668; 2715; 2765; 2781; 2801; 2826; 2846; 2869; 2896; 2914; 2940; 2980; 3006; 3030; 3086; 3100; 3128; 3171; 3192; 3227; 3271; 3359; 3383; 3405; 3425; 3441; 3462; 3476; 3495; 3579; 3599; 3627; 3642; 3676; 3718; 3745; 3760; 3805; 3829; 3843; 3865; 3891; 3911; 3935; 3961; 4009; 4028; 4047; 4073; 4108; 4153; 4183; 4197; 4248; 4262; 4287; 4303; 4324; 4353
FspEI	!NNNNNNNNNNNNNGG	113	93; 151; 175; 197; 241; 278; 305; 334; 389; 454; 487; 530; 562; 584; 615; 650; 676; 695; 733; 772; 794; 868; 887; 905; 943; 987; 1053; 1153; 1222; 1252; 1330; 1379; 1401; 1429; 1465; 1510; 1539; 1575; 1594; 1622; 1642; 1705; 1728; 1836; 1868; 1886; 1915; 1958; 1987; 2098; 2127; 2170; 2191; 2219; 2252; 2272; 2297; 2324; 2349; 2371; 2399; 2425; 2446; 2497; 2518; 2536; 2584; 2620; 2676; 2701; 2725; 2754; 2777; 2801; 2827; 2849; 2868; 2893; 2933; 2969; 3034; 3119; 3143; 3172; 3206; 3227; 3247; 3292; 3319; 3338; 3371; 3423; 3454; 3481; 3533; 3631; 3702; 3747; 3808; 3873; 3907; 3933; 3951; 3987; 4057; 4080; 4102; 4126; 4159; 4207; 4242; 4260; 4317
Fsp4HI	GC!NGC	30	112; 921; 924; 1159; 1678; 1700; 1714; 2152; 2291; 2343; 2354; 2444; 2449; 2486; 2527; 2614; 2620; 2856; 2952; 2993; 3007; 3121; 3460; 3475; 3686; 3892; 3895; 3960; 4103; 4258
GdiII	C!GGCCR	2	921; 2288
GdiII	Y!GGCCG	4	921; 2288; 2853; 2880
GlaI	GC!GC	21	119; 1647; 1655; 1681; 1703; 1712; 1725; 1756; 2375; 2383; 2447; 2484; 2750; 3010; 3186; 3272; 3675; 3784; 3958; 4058; 4125

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GluI	GC!NGC	30	112; 921; 924; 1159; 1678; 1700; 1714; 2152; 2291; 2343; 2354; 2444; 2449; 2486; 2527; 2614; 2620; 2856; 2952; 2993; 3007; 3121; 3460; 3475; 3686; 3892; 3895; 3960; 4103; 4258
GsaI	CCCAG!C	4	942; 1929; 2001; 4000
GsaI	GCTGG!G	1	2890
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	2	914; 3222
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3165
HaeI	WGG!CCW	5	2203; 2464; 3826; 4278; 4289
HaeII	RGCG!Y	5	121; 1649; 1657; 2385; 4060
HaeIII	GG!CC	19	178; 923; 1348; 1490; 2145; 2151; 2160; 2203; 2290; 2464; 2855; 2882; 3391; 3448; 3481; 3826; 4260; 4278; 4289
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	1	2578
HaeIV	!NNNNNNNNNGAYNNNNNRTC	1	2544
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	1	2577
HaeIV	!NNNNNNNGAYNNNNNRTC	1	2546
HapII	C!CGG	19	124; 180; 190; 1600; 2287; 2364; 2386; 2414; 2545; 2635; 2702; 2883; 3158; 3166; 3258; 3732; 3922; 3948; 4095
HgaI	GACGCNNNNN!	3	784; 3092; 3171
HgaI	!NNNNNNNNNNGCGTC	3	1715; 3610; 4188
HhaI	GCG!C	21	120; 1648; 1656; 1682; 1704; 1713; 1726; 1757; 2376; 2384; 2448; 2485; 2751; 3011; 3187; 3273; 3676; 3785; 3959; 4059; 4126
HinI	GR!CGYC	3	2382; 3084; 3163
HinIII	CATG!	16	204; 258; 693; 1812; 1952; 2024; 2115; 2256; 2601; 2787; 2818; 2844; 3200; 3584; 4304; 4355
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	739; 2577
Hin4I	!NNNNNNNGABNNNNNRTC	2	2545; 2575
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	2	2577; 2607
Hin4I	!NNNNNNNGAYNNNNNVTC	2	707; 2545
Hin6I	G!CGC	21	118; 1646; 1654; 1680; 1702; 1711; 1724; 1755; 2374; 2382; 2446; 2483; 2749; 3009; 3185; 3271; 3674; 3783; 3957; 4057; 4124
HinP1I	G!CGC	21	118; 1646; 1654; 1680; 1702; 1711; 1724; 1755; 2374; 2382; 2446; 2483; 2749; 3009; 3185; 3271; 3674; 3783; 3957; 4057; 4124
HincII	GTY!RAC	2	164; 1145
HindII	GTY!RAC	2	164; 1145
HindIII	A!AGCTT	1	145
HinfI	G!ANTC	17	127; 215; 512; 797; 817; 898; 928; 1425; 1447; 1857; 2867; 3001; 3053; 3111; 3148; 3930; 4326
HpaI	GTT!AAC	1	1145
HpaII	C!CGG	19	124; 180; 190; 1600; 2287; 2364; 2386; 2414; 2545; 2635; 2702; 2883; 3158; 3166; 3258; 3732; 3922; 3948; 4095
HphI	GGTGANNNNNNNN!	4	307; 559; 3453; 3569
HphI	!NNNNNNNTCACC	2	1499; 2560
Hpy8I	GTN!NAC	11	164; 252; 310; 419; 715; 909; 1145; 1429; 1446; 1501; 3988
Hpy99I	CGWCG!	8	168; 2472; 2500; 2794; 2809; 3086; 3471; 4204
Hpy166II	GTN!NAC	11	164; 252; 310; 419; 715; 909; 1145; 1429; 1446; 1501; 3988
Hpy188I	TCN!GA	13	132; 531; 822; 1556; 2165; 2349; 2693; 3046; 3147; 3626; 3760; 4113; 4191
Hpy188III	TC!NNGA	26	136; 430; 442; 466; 661; 772; 893; 1809; 1861; 2174; 2227; 2400; 2716; 2725; 2808; 2864; 2908; 2998; 3031; 3100; 3581; 3655; 3738; 3836; 3934; 4068
HpyAV	CCTTCNNNNNN!	4	647; 3027; 3134; 3813
HpyAV	!NNNNNGAAGG	11	286; 313; 342; 538; 1615; 2510; 3239; 3255; 3438; 3755; 4065
HpyCH4III	ACN!GT	11	168; 345; 601; 1473; 2762; 2878; 2986; 3309; 3800; 4270; 4341
HpyCH4IV	A!CGT	11	266; 566; 656; 1442; 1454; 1497; 1607; 2498; 2685; 3466; 3599
HpyCH4V	TG!CA	22	55; 159; 334; 612; 765; 994; 1131; 1158; 1226; 1943; 1952; 2015; 2024; 2139; 2215; 2274; 2433; 2608; 2622; 3692; 3988; 4355
HpyF3I	C!TNAG	10	129; 467; 819; 900; 1862; 2164; 3045; 3494; 3617; 4026
HpyF10VI	GCNNNNN!NNGC	21	117; 846; 1609; 1639; 1666; 1708; 1949; 2021; 2072; 2151; 2373; 2457; 2480; 2619; 2742; 2825; 3092; 3279; 3483; 3682; 4254
Hsp92I	GR!CGYC	3	2382; 3084; 3163
Hsp92II	CATG!	16	204; 258; 693; 1812; 1952; 2024; 2115; 2256; 2601; 2787; 2818; 2844; 3200; 3584; 4304; 4355

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HspAI	G!CGC	21	118; 1646; 1654; 1680; 1702; 1711; 1724; 1755; 2374; 2382; 2446; 2483; 2749; 3009; 3185; 3271; 3674; 3783; 3957; 4057; 4124
KasI	G!GCGCC	1	2381
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	172
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	175
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1145
Kzo9I	!GATC	20	132; 183; 789; 1039; 2219; 2223; 2242; 2553; 2631; 2712; 2721; 2799; 3175; 3191; 3550; 3562; 3640; 3648; 3659; 3734
LguI	GCTCTTCN!	1	701
LguI	!NNNNGAAGAGC	2	2726; 2936
LpnI	RGC!GCG	5	119; 1647; 1655; 2383; 4058
LpnPI	CCDGNNNNNNNNN!	53	58; 137; 193; 224; 443; 479; 617; 785; 952; 1119; 1424; 1613; 1836; 1874; 1890; 1930; 1985; 2002; 2102; 2187; 2300; 2377; 2399; 2422; 2558; 2572; 2591; 2648; 2715; 2765; 2781; 2838; 2896; 3105; 3171; 3195; 3271; 3360; 3463; 3496; 3727; 3745; 3891; 3911; 3935; 3961; 4010; 4108; 4153; 4183; 4262; 4287; 4324
LpnPI	!NNNNNNNNNNNNNCHGG	47	93; 165; 197; 868; 887; 987; 1465; 1585; 1642; 1705; 1903; 1915; 1975; 1987; 2219; 2264; 2307; 2349; 2371; 2399; 2446; 2508; 2530; 2620; 2687; 2710; 2754; 2849; 2868; 2893; 3042; 3143; 3186; 3243; 3333; 3436; 3463; 3481; 3717; 3754; 3907; 3933; 4073; 4091; 4126; 4207; 4260
Lsp1109I	GCAGCNNNNNNNN!	6	1170; 2455; 2497; 3018; 3471; 3971
Lsp1109I	!NNNNNNNNNNNGCTGC	7	98; 1664; 2329; 2513; 2606; 3672; 3878
LweI	GCATCNNNNN!	6	1198; 1961; 2033; 2681; 2745; 3020
LweI	!NNNNNNNNNGATGC	5	599; 2340; 2595; 2811; 4203
MabI	A!CCWGGT	1	1971
MaeI	C!TAG	9	115; 932; 1037; 1231; 1649; 2205; 3220; 3554; 3807
MaeII	A!CGT	11	266; 566; 656; 1442; 1454; 1497; 1607; 2498; 2685; 3466; 3599
MaeIII	!GTNAC	13	40; 262; 661; 1004; 1170; 1671; 1683; 2502; 2808; 3498; 3764; 3880; 3943
MaiI	GA!TC	20	134; 185; 791; 1041; 2221; 2225; 2244; 2555; 2633; 2714; 2723; 2801; 3177; 3193; 3552; 3564; 3642; 3650; 3661; 3736
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1806; 2995
MbiI	GAG!CGG	2	1642; 3049
MboI	!GATC	20	132; 183; 789; 1039; 2219; 2223; 2242; 2553; 2631; 2712; 2721; 2799; 3175; 3191; 3550; 3562; 3640; 3648; 3659; 3734
MboII	GAAGANNNNNNNN!	7	244; 445; 1638; 1866; 2743; 2953; 3572
MboII	!NNNNNNNTCTTC	5	688; 3033; 3200; 3400; 3643
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1132
MflI	R!GATCY	9	132; 183; 2553; 2799; 3191; 3550; 3562; 3648; 3659
MhlI	GDGCH!C	12	143; 180; 360; 851; 1573; 2328; 2421; 2495; 2685; 2747; 3457; 3990
MisI	TGG!CCA	1	2464
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2464
MlyI	GAGTCNNNNN!	2	1434; 1866
MlyI	!NNNNNGACTC	7	121; 811; 892; 922; 1441; 3047; 3924
Mly113I	GG!CGCC	1	2382
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1475
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	3907; 4091
MnII	CCTCNNNNNNN!	10	371; 733; 881; 1101; 2165; 2983; 3189; 3503; 3873; 4197
MnII	!NNNNNGAGG	18	252; 291; 345; 462; 495; 699; 1061; 1526; 1857; 2135; 2178; 2193; 2233; 2297; 2433; 2790; 3220; 4123
Mph1103I	ATGCA!T	3	1954; 2026; 4357
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	1599; 2882; 3165
MroXI	GAANN!NNTTC	1	437

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MscI	TGG!CCA	1	2464
MseI	T!TAA	19	245; 575; 626; 686; 734; 1083; 1144; 1265; 1286; 1297; 1309; 1320; 1337; 1435; 1706; 3525; 3539; 3544; 3596
MslI	CAYNN!NNRTG	3	627; 659; 2819
MspI	C!CGG	19	124; 180; 190; 1600; 2287; 2364; 2386; 2414; 2545; 2635; 2702; 2883; 3158; 3166; 3258; 3732; 3922; 3948; 4095
Msp20I	TGG!CCA	1	2464
MspA1I	CMG!CKG	5	174; 1880; 2488; 3717; 3962
MspCI	C!TTAAG	1	1264
MspJI	CNNRNNNNNNNNNN!	219	24; 47; 71; 101; 120; 136; 150; 163; 185; 202; 223; 240; 265; 279; 326; 340; 378; 397; 417; 434; 454; 478; 491; 513; 542; 555; 573; 596; 616; 637; 656; 673; 687; 702; 715; 755; 784; 798; 813; 831; 862; 888; 905; 924; 937; 950; 965; 992; 1010; 1029; 1049; 1065; 1089; 1106; 1119; 1160; 1174; 1187; 1205; 1243; 1258; 1276; 1317; 1341; 1361; 1379; 1400; 1423; 1455; 1470; 1492; 1510; 1523; 1544; 1561; 1574; 1587; 1603; 1616; 1646; 1661; 1686; 1704; 1717; 1732; 1756; 1770; 1794; 1819; 1835; 1873; 1889; 1928; 1942; 1956; 1984; 2000; 2014; 2028; 2057; 2070; 2091; 2100; 2122; 2152; 2168; 2186; 2216; 2239; 2263; 2287; 2306; 2334; 2360; 2376; 2389; 2412; 2426; 2446; 2459; 2473; 2492; 2506; 2519; 2535; 2550; 2563; 2579; 2594; 2610; 2635; 2654; 2670; 2683; 2696; 2714; 2728; 2742; 2758; 2780; 2796; 2815; 2837; 2853; 2876; 2895; 2909; 2925; 2939; 2959; 2975; 2988; 3010; 3043; 3057; 3077; 3090; 3104; 3158; 3171; 3194; 3207; 3226; 3243; 3270; 3306; 3339; 3358; 3383; 3404; 3431; 3444; 3461; 3475; 3490; 3506; 3566; 3591; 3607; 3629; 3642; 3656; 3687; 3701; 3726; 3744; 3759; 3772; 3791; 3804; 3819; 3848; 3867; 3885; 3910; 3925; 3944; 3960; 3979; 3997; 4013; 4027; 4046; 4073; 4096; 4118; 4137; 4152; 4165; 4182; 4202; 4229; 4242; 4261; 4286; 4309; 4323; 4336; 4353
MspJI	!NNNNNNNNNNNNYNG	181	16; 35; 53; 80; 101; 122; 142; 159; 176; 197; 214; 241; 263; 283; 302; 362; 389; 416; 439; 465; 485; 510; 527; 555; 590; 617; 641; 659; 676; 711; 733; 758; 794; 830; 869; 887; 911; 933; 953; 974; 998; 1019; 1048; 1092; 1134; 1217; 1252; 1279; 1302; 1331; 1375; 1397; 1429; 1465; 1482; 1503; 1540; 1560; 1577; 1594; 1629; 1647; 1665; 1682; 1706; 1728; 1755; 1783; 1809; 1847; 1868; 1885; 1903; 1926; 1947; 1975; 1998; 2019; 2037; 2058; 2075; 2098; 2122; 2142; 2160; 2182; 2213; 2235; 2261; 2280; 2297; 2325; 2344; 2363; 2381; 2399; 2420; 2442; 2466; 2499; 2519; 2537; 2558; 2584; 2611; 2628; 2645; 2662; 2688; 2710; 2732; 2750; 2770; 2789; 2811; 2849; 2869; 2893; 2913; 2933; 2960; 2984; 3017; 3036; 3064; 3086; 3115; 3143; 3168; 3187; 3206; 3227; 3244; 3261; 3292; 3319; 3339; 3362; 3382; 3419; 3436; 3455; 3481; 3501; 3540; 3567; 3586; 3604; 3641; 3659; 3700; 3718; 3744; 3761; 3793; 3822; 3850; 3871; 3894; 3913; 3934; 3952; 3969; 3987; 4013; 4034; 4054; 4074; 4092; 4113; 4139; 4156; 4175; 4194; 4223; 4242; 4260; 4279; 4297; 4315; 4338
MspR9I	CC!NGG	16	180; 181; 212; 1918; 1973; 1990; 2386; 2546; 2769; 3159; 3348; 3451; 3923; 4141; 4154; 4275
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1132
MvaI	CC!WGG	10	212; 1918; 1973; 1990; 2769; 3348; 3451; 4141; 4154; 4275
Mva1269I	GAATGCN!	1	1133
Mva1269I	G!CATTC	1	1226
MvnI	CG!CG	15	174; 926; 1306; 1682; 1702; 1726; 1757; 2448; 2749; 3187; 3271; 3334; 3403; 3676; 4257
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	21	117; 846; 1609; 1639; 1666; 1708; 1949; 2021; 2072; 2151; 2373; 2457; 2480; 2619; 2742; 2825; 3092; 3279; 3483; 3682; 4254
NaeI	GCC!GGC	3	1601; 2884; 3167
NarI	GG!CGCC	1	2382
NciI	CC!SGG	6	180; 181; 2386; 2546; 3159; 3923
NcoI	C!CATGG	2	2111; 2814
NdeI	CA!TATG	0	
NdeII	!GATC	20	132; 183; 789; 1039; 2219; 2223; 2242; 2553; 2631; 2712; 2721; 2799; 3175; 3191; 3550; 3562; 3640; 3648; 3659; 3734
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NgoAVIII	TCANNNNGTCNNNNNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	3	1599; 2882; 3165
NheI	G!CTAGC	1	114
NlaIII	CATG!	16	204; 258; 693; 1812; 1952; 2024; 2115; 2256; 2601; 2787; 2818; 2844; 3200; 3584; 4304; 4355
NlaIV	GGN!NCC	18	170; 178; 185; 635; 937; 1537; 1558; 1570; 1761; 1922; 1994; 2383; 2418; 3266; 3345; 3390; 4233; 4272
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	902; 1214; 1529; 3121
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	589; 4193
Nli3877I	CYCGR!G	2	140; 183
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2171; 2607
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2136
NmeDI	RCCGGYNNNNNNNN!	5	201; 1611; 2713; 2894; 3177
NmeDI	!NNNNNNNNNNNNRCCGGY	5	176; 1586; 2688; 2869; 3152
NmuCI	!GTSAC	6	40; 661; 1004; 1671; 2502; 2808
NotI	GC!GGCCGC	1	921
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2484
NsiI	ATGCA!T	3	1954; 2026; 4357
NspI	RCATG!Y	4	1952; 2024; 2787; 4304
NspV	TT!CGAA	2	150; 3064
OliI	CACNN!NNGTG	1	659
PabI	GTA!C	6	99; 171; 520; 911; 952; 2689
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	1952; 2024; 2787
PaeR7I	C!TCGAG	1	136
PagI	T!CATGA	2	1808; 3580
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3347; 3450
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2203
PciI	A!CATGT	1	4300
PciSI	GCTCTCN!	1	701
PciSI	!NNNNGAAGAGC	2	2726; 2936
PcsI	WCGNNNN!NNNCGW	8	671; 782; 2676; 2753; 2996; 3070; 3463; 3981
PctI	GAATGCN!	1	1133
PctI	G!CATTC	1	1226
PdiI	GCC!GGC	3	1601; 2884; 3167
PdmI	GAANN!NNTTC	1	437
PfeI	G!AWTC	8	215; 512; 797; 2867; 3001; 3111; 3148; 4326
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2500
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	2	210; 3157
PhoI	GG!CC	19	178; 923; 1348; 1490; 2145; 2151; 2160; 2203; 2290; 2464; 2855; 2882; 3391; 3448; 3481; 3826; 4260; 4278; 4289
PinAI	A!CCGGT	1	189
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	2763
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2328; 2583
PleI	GAGTCNNNN!	2	1433; 1865
PleI	!NNNNNGACTC	7	121; 811; 892; 922; 1441; 3047; 3924
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1464
PpiI	!NNNNNNNGAGNNNNNGTTC	2	233; 3594
PpiI	GAGNNNNGTTCNNNNNNNNNNNN!	2	265; 3626
PpiI	!NNNNNNNGAACNNNNNCTC	1	1432
PpsI	GAGTCNNNN!	2	1433; 1865
PpsI	!NNNNNGACTC	7	121; 811; 892; 922; 1441; 3047; 3924
Ppu10I	A!TGCAT	3	1950; 2022; 4353
Ppu21I	YAC!GTR	2	1498; 2686
PpuMI	RG!GWCCY	1	935

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PscI	A!CATGT	1	4300
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	5	83; 746; 966; 1165; 1370
Psp03I	GGWC!C	4	604; 938; 2901; 3346
Psp5II	RG!GWCCY	1	935
Psp6I	!CCWGG	10	210; 1916; 1971; 1988; 2767; 3346; 3449; 4139; 4152; 4273
Psp1406I	AA!CGTT	1	566
Psp124BI	GAGCT!C	1	143
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	10	210; 1916; 1971; 1988; 2767; 3346; 3449; 4139; 4152; 4273
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	18	170; 178; 185; 635; 937; 1537; 1558; 1570; 1761; 1922; 1994; 2383; 2418; 3266; 3345; 3390; 4233; 4272
PspOMI	G!GGCCC	1	176
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	2	2112; 3111
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2514
PspPI	G!GNCC	10	176; 177; 601; 935; 1489; 2898; 3343; 3389; 3447; 3480
PspPPI	RG!GWCCY	1	935
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	1935; 2007; 3513
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	3	453; 1848; 3043
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	1	510
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	1	542
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	938; 3483
PstI	CTGCA!G	1	161
PstNI	CAGNNN!CTG	2	3483; 3891
PsuI	R!GATCY	9	132; 183; 2553; 2799; 3191; 3550; 3562; 3648; 3659
Psyl	GACN!NNGTC	1	2500
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	1880; 2488
RcaI	T!CATGA	2	1808; 3580
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	2897
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNN!	1	1111
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	98; 170; 519; 910; 951; 2688
RsaNI	G!TAC	6	97; 169; 518; 909; 950; 2687
RseI	CAYNN!NNRTG	3	627; 659; 2819
RsrII	CG!GWCCG	1	2898
Rsr2I	CG!GWCCG	1	2898
SacI	GAGCT!C	1	143
SacII	CCGC!GG	1	175
SalI	G!TCGAC	1	162
SapI	GCTCTCN!	1	701
SapI	!NNNNGAAGAGC	2	2726; 2936
SaqAI	T!TAA	19	245; 575; 626; 686; 734; 1083; 1144; 1265; 1286; 1297; 1309; 1320; 1337; 1435; 1706; 3525; 3539; 3544; 3596
SatI	GC!NGC	30	112; 921; 924; 1159; 1678; 1700; 1714; 2152; 2291; 2343; 2354; 2444; 2449; 2486; 2527; 2614; 2620; 2856; 2952; 2993; 3007; 3121; 3460; 3475; 3686; 3892; 3895; 3960; 4103; 4258
Sau96I	G!GNCC	10	176; 177; 601; 935; 1489; 2898; 3343; 3389; 3447; 3480
Sau3AI	!GATC	20	132; 183; 789; 1039; 2219; 2223; 2242; 2553; 2631; 2712; 2721; 2799; 3175; 3191; 3550; 3562; 3640; 3648; 3659; 3734

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	1434; 1866
SchI	!NNNNNGACTC	7	121; 811; 892; 922; 1441; 3047; 3924
SciI	CTC!GAG	1	138
ScrFI	CC!NGG	16	180; 181; 212; 1918; 1973; 1990; 2386; 2546; 2769; 3159; 3348; 3451; 3923; 4141; 4154; 4275
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	4	1960; 2032; 2201; 4143
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	189; 2537; 3022
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	12	143; 180; 360; 851; 1573; 2328; 2421; 2495; 2685; 2747; 3457; 3990
SelI	!CGCG	15	172; 924; 1304; 1680; 1700; 1724; 1755; 2446; 2747; 3185; 3269; 3332; 3401; 3674; 4255
SetI	ASST!	58	47; 143; 149; 269; 297; 549; 569; 597; 653; 659; 714; 725; 761; 842; 887; 906; 944; 1006; 1072; 1093; 1102; 1114; 1163; 1330; 1445; 1457; 1500; 1537; 1587; 1610; 1734; 1882; 1977; 2170; 2283; 2411; 2490; 2501; 2573; 2644; 2688; 2948; 3094; 3138; 3469; 3500; 3559; 3602; 3745; 3766; 3865; 4002; 4017; 4036; 4048; 4092; 4138; 4189
SexAI	A!CCWGGT	1	1971
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	6	1198; 1961; 2033; 2681; 2745; 3020
SfaNI	!NNNNNNNNNGATGC	5	599; 2340; 2595; 2811; 4203
SfcI	C!TRYAG	5	157; 389; 1717; 3844; 4035
SfiI	GGCCNNNN!NGGCC	1	2157
SfoI	GGC!GCC	1	2383
Sfr274I	C!TCGAG	1	136
Sfr303I	CCGC!GG	1	175
SfuI	TT!CGAA	2	150; 3064
SgeI	CNNGNNNNNNNNN!	166	6; 57; 120; 136; 150; 185; 202; 223; 240; 267; 289; 424; 442; 465; 478; 491; 513; 553; 616; 667; 685; 702; 715; 784; 798; 820; 862; 895; 914; 937; 951; 1014; 1049; 1089; 1118; 1160; 1243; 1317; 1401; 1423; 1455; 1492; 1510; 1529; 1544; 1586; 1603; 1620; 1655; 1669; 1686; 1708; 1732; 1756; 1821; 1835; 1873; 1889; 1929; 1942; 1961; 1984; 2001; 2014; 2033; 2063; 2084; 2101; 2124; 2159; 2186; 2217; 2239; 2265; 2287; 2306; 2334; 2370; 2389; 2412; 2426; 2446; 2459; 2473; 2492; 2506; 2525; 2557; 2571; 2584; 2610; 2641; 2654; 2671; 2688; 2702; 2719; 2737; 2752; 2780; 2796; 2815; 2837; 2853; 2876; 2895; 2920; 2939; 2959; 2986; 3010; 3043; 3062; 3090; 3104; 3170; 3194; 3209; 3232; 3253; 3270; 3318; 3345; 3359; 3388; 3412; 3445; 3462; 3482; 3495; 3508; 3566; 3593; 3612; 3642; 3667; 3687; 3701; 3726; 3744; 3781; 3819; 3848; 3876; 3890; 3910; 3925; 3946; 3960; 3979; 3997; 4013; 4053; 4073; 4100; 4118; 4139; 4152; 4165; 4182; 4206; 4229; 4261; 4286; 4313; 4335
SgeI	!NNNNNNNNNNNNNCNNG	145	31; 94; 122; 159; 176; 197; 214; 241; 263; 398; 416; 439; 465; 487; 527; 590; 641; 659; 676; 758; 794; 836; 869; 888; 911; 933; 988; 1023; 1063; 1092; 1134; 1217; 1291; 1375; 1397; 1429; 1466; 1484; 1503; 1560; 1577; 1594; 1629; 1647; 1667; 1687; 1706; 1730; 1795; 1847; 1903; 1935; 1958; 1975; 2007; 2037; 2058; 2075; 2098; 2133; 2160; 2191; 2213; 2239; 2261; 2280; 2308; 2344; 2363; 2386; 2407; 2425; 2442; 2466; 2499; 2531; 2558; 2584; 2615; 2645; 2662; 2688; 2711; 2732; 2754; 2774; 2794; 2811; 2850; 2869; 2894; 2913; 2933; 2960; 2984; 3017; 3036; 3064; 3086; 3144; 3168; 3187; 3206; 3227; 3244; 3292; 3319; 3339; 3362; 3386; 3419; 3436; 3456; 3482; 3540; 3567; 3586; 3616; 3641; 3661; 3700; 3718; 3755; 3793; 3822; 3850; 3871; 3899; 3920; 3953; 3971; 4027; 4047; 4074; 4092; 4113; 4139; 4156; 4180; 4203; 4235; 4260; 4287; 4309; 4338
Sgfi	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	175
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	1529; 3316; 4109
SimI	!GACCC	4	935; 2810; 3378; 3626
SinI	G!GWCC	4	601; 935; 2898; 3343
SlaI	C!TCGAG	1	136
SmaI	CCC!GGG	1	181
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	3	627; 659; 2819
SmlI	C!TYRAG	8	136; 142; 703; 1264; 2773; 3655; 3932; 4194
SmoI	C!TYRAG	8	136; 142; 703; 1264; 2773; 3655; 3932; 4194
SmuI	CCCGCNNNN!	5	1704; 2059; 2080; 3276; 3408
SmuI	!NNNNNNGCGGG	6	167; 1635; 2505; 3042; 3180; 3327
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	1952; 2024; 2787
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	15	60; 152; 521; 585; 803; 985; 1132; 1196; 1274; 1300; 1311; 1958; 2030; 2122; 3540
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2203
SsiI	C!CGC	26	172; 924; 1697; 1700; 1714; 1804; 2052; 2064; 2073; 2085; 2095; 2106; 2152; 2291; 2354; 2856; 2901; 2967; 2993; 3118; 3121; 3269; 3401; 3708; 3852; 4348
SsiI	G!CGG	22	174; 920; 1642; 1669; 1757; 1867; 2448; 2512; 2613; 2616; 2896; 2951; 3049; 3187; 3334; 3474; 3717; 3962; 4083; 4102; 4229; 4257
SspI	AAT!ATT	3	684; 1290; 1843
SspDI	G!GCGCC	1	2381
SspD5I	GGTGANNNNNNNN!	4	307; 559; 3453; 3569
SspD5I	!NNNNNNNNTCACC	2	1498; 2559
SstI	GAGCT!C	1	143
SstII	CCGC!GG	1	175
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	13	186; 1581; 1703; 2058; 2079; 2392; 2795; 2934; 3005; 3275; 3407; 3637; 4075
Sth132I	!NNNNNNNNCGGG	16	166; 1582; 1634; 1735; 2462; 2504; 2537; 3041; 3150; 3179; 3326; 3430; 3461; 3914; 3958; 4166
Sth302II	CC!GG	19	125; 181; 191; 1601; 2288; 2365; 2387; 2415; 2546; 2636; 2703; 2884; 3159; 3167; 3259; 3733; 3923; 3949; 4096
StrI	C!TCGAG	1	136
StsI	GGATGNNNNNNNNNN!	4	2250; 2707; 2732; 3186
StsI	!NNNNNNNNNNNNNNNNCATCC	2	366; 2054
StuI	AGG!CCT	1	2203
StyI	C!CWWGG	4	2111; 2204; 2814; 3219
StyD4I	!CCNGG	16	178; 179; 210; 1916; 1971; 1988; 2384; 2544; 2767; 3157; 3346; 3449; 3921; 4139; 4152; 4273
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	11	168; 345; 601; 1473; 2762; 2878; 2986; 3309; 3800; 4270; 4341
TaiI	ACGT!	11	269; 569; 659; 1445; 1457; 1500; 1610; 2501; 2688; 3469; 3602
TaqI	T!CGA	17	137; 150; 163; 500; 542; 800; 1531; 2222; 2495; 2651; 2675; 2711; 2873; 3064; 3109; 3364; 4202
TaqII	GACCGANNNNNNNNNN!	3	1402; 2419; 3087
TaqII	!NNNNNNNNTCGGTC	1	3331
TaqII	CACCCANNNNNNNNNN!	0	
TaqII	!NNNNNNNNTGGGTG	2	2286; 2878
TasI	!AATT	15	60; 152; 521; 585; 803; 985; 1132; 1196; 1274; 1300; 1311; 1958; 2030; 2122; 3540
TatI	W!GTACW	4	96; 517; 908; 949
TauI	GCSG!C	17	923; 926; 1702; 1716; 2154; 2293; 2356; 2451; 2616; 2619; 2858; 2954; 2995; 3123; 3477; 4105; 4260
TfiI	G!AWTC	8	215; 512; 797; 2867; 3001; 3111; 3148; 4326
TliI	C!TCGAG	1	136
TruII	T!TAA	19	245; 575; 626; 686; 734; 1083; 1144; 1265; 1286; 1297; 1309; 1320; 1337; 1435; 1706; 3525; 3539; 3544; 3596

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Tru9I	T!TAA	19	245; 575; 626; 686; 734; 1083; 1144; 1265; 1286; 1297; 1309; 1320; 1337; 1435; 1706; 3525; 3539; 3544; 3596
TscAI	CASTGNN!	7	350; 611; 1228; 2511; 3621; 3892; 3905
TseI	G!CWGC	14	111; 1158; 1677; 2342; 2443; 2485; 2526; 2619; 3006; 3459; 3685; 3891; 3894; 3959
TsoI	TARCCANNNNNNNNNNN!	2	1354; 1701
TsoI	!NNNNNNNNNTGGYTA	2	1159; 2911
Tsp45I	!GTSAC	6	40; 661; 1004; 1671; 2502; 2808
Tsp509I	!AATT	15	60; 152; 521; 585; 803; 985; 1132; 1196; 1274; 1300; 1311; 1958; 2030; 2122; 3540
TspDTI	ATGAANNNNNNNNNNN!	5	217; 930; 1140; 2441; 3145
TspDTI	!NNNNNNNNNTTCAT	4	388; 2859; 3315; 3522
TspEI	!AATT	15	60; 152; 521; 585; 803; 985; 1132; 1196; 1274; 1300; 1311; 1958; 2030; 2122; 3540
TspGWI	ACGGANNNNNNNNNNN!	3	419; 680; 3257
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	179
TspRI	CASTGNN!	7	350; 611; 1228; 2511; 3621; 3892; 3905
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	2	398; 659
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	2	430; 691
TstI	!NNNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2500
Tth111II	CAARCANNNNNNNNNNN!	2	469; 3709
Tth111III	!NNNNNNNNNTGYTTG	3	2817; 3677; 3716
UnbI	!GGNCC	10	175; 176; 600; 934; 1488; 2897; 3342; 3388; 3446; 3479
Van9II	CCANNNNN!NTGG	0	
Vha464I	C!TTAAG	1	1264
VneI	G!TGCAC	1	3986
VpaK11AI	!GGWCC	4	600; 934; 2897; 3342
VpaK11BI	G!GWCC	4	601; 935; 2898; 3343
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	5	152; 803; 1196; 1300; 1311
XbaI	T!CTAGA	0	
XceI	RCATG!Y	4	1952; 2024; 2787; 4304
XcmI	CCANNNNN!NNNNTGG	1	884
XhoI	C!TCGAG	1	136
XhoII	R!GATCY	9	132; 183; 2553; 2799; 3191; 3550; 3562; 3648; 3659
XmaI	C!CCGGG	1	179
XmaJI	C!CTAGG	2	2204; 3219
XmiI	GT!MKAC	1	163
XmnI	GAANN!NNTTC	1	437
XspI	C!TAG	9	115; 932; 1037; 1231; 1649; 2205; 3220; 3554; 3807
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	1954; 2026; 4357