

Gateway® TurboGFP-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	4	83; 948; 1147; 1352
AarI	CACCTGCNNNN!	1	653
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1435; 2391; 4180
AatI	AGG!CCT	1	2185
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	163
AccII	CG!CG	18	174; 548; 704; 809; 908; 1288; 1664; 1684; 1708; 1739; 2430; 2731; 3169; 3253; 3316; 3385; 3658; 4239
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2466
Acc36I	ACCTGCNNNN!	4	380; 653; 2632; 3082
Acc36I	!NNNNNNNNGCAGGT	1	2251
Acc65I	G!GTACC	1	168
AccB1I	G!GYRCC	9	168; 256; 301; 349; 412; 574; 1517; 2363; 2398
AccB7I	CCANNNN!NTGG	1	387
AccBSI	CCG!CTC	2	1788; 2977
AccBSI	GAG!CGG	3	218; 1624; 3031
AceIII	CAGCTCNNNNNNN!	2	732; 1320
AceIII	!NNNNNNNNNNGAGCTG	2	268; 823
AciI	C!CGC	36	172; 227; 246; 318; 480; 531; 546; 621; 687; 804; 807; 906; 1679; 1682; 1696; 1786; 2034; 2046; 2055; 2067; 2077; 2088; 2134; 2273; 2336; 2838; 2883; 2949; 2975; 3100; 3103; 3251; 3383; 3690; 3834; 4330
AciI	G!CGG	29	174; 218; 290; 293; 425; 464; 503; 710; 902; 1624; 1651; 1739; 1849; 2430; 2494; 2595; 2598; 2878; 2933; 3031; 3169; 3316; 3456; 3699; 3944; 4065; 4084; 4211; 4239
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	191; 827; 2232; 2543; 2789; 3181; 3540; 3638; 3724
AclWI	!NNNNNGATCC	5	178; 2608; 3152; 3539; 3636
AcoI	Y!GGCCR	6	543; 903; 2270; 2444; 2835; 2862
AcsI	R!AATY	4	152; 1178; 1282; 1293
AcuI	CTGAAGNNNNNNNNNNNNNNN!	2	2510; 2942
AcuI	!NNNNNNNNNNNNNNCTTCAG	4	345; 507; 678; 3740
AcvI	CAC!GTG	2	384; 516
AcyI	GR!CGYC	4	350; 2364; 3066; 3145
AdeI	CACNNN!GTG	1	1480
AfaI	GT!AC	6	98; 170; 493; 853; 933; 2670
AfeI	AGC!GCT	1	119
AfiI	CCNNNNN!NNGG	19	312; 387; 537; 810; 1376; 1702; 2094; 2345; 2889; 3170; 3202; 3334; 3369; 3419; 3451; 3804; 4083; 4249; 4267
AfII	C!TTAAG	1	1246
AfIII	A!CRYGT	1	4282
AgeI	A!CCGGT	1	189
AgsI	TTS!AA	8	564; 750; 867; 1775; 1819; 1829; 2242; 3818
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	9	1898; 1953; 1970; 2749; 3328; 3431; 4121; 4134; 4255
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	1938; 2010
AlfI	!NNNNNNNNNNNGCANNNNNNTGC	2	1904; 1976
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1446
AloI	!NNNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1414
AluI	AG!CT	20	141; 147; 282; 521; 527; 680; 722; 837; 924; 1143; 1310; 1567; 1862; 2150; 2470; 2928; 3725; 3982; 4028; 4118
AluBI	AG!CT	20	141; 147; 282; 521; 527; 680; 722; 837; 924; 1143; 1310; 1567; 1862; 2150; 2470; 2928; 3725; 3982; 4028; 4118
AlwI	GGATCNNNN!	9	191; 827; 2232; 2543; 2789; 3181; 3540; 3638; 3724
AlwI	!NNNNNGATCC	5	178; 2608; 3152; 3539; 3636
Alw21I	GWGCW!C	6	143; 343; 644; 2477; 2667; 3972
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	4	1788; 2206; 3225; 3353
Alw44I	G!TGCAC	1	3968
AlwNI	CAGNNN!CTG	2	3465; 3873
Ama87I	C!YCGRG	4	136; 179; 307; 586
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	119
ApaI	GGGCC!C	2	180; 790
ApaBI	GCANNNNN!TGC	3	1932; 2004; 3466
ApaLI	G!TGCAC	1	3968
ApeKI	G!CWGC	17	111; 510; 623; 677; 1140; 1659; 2324; 2425; 2467; 2508; 2601; 2988; 3441; 3667; 3873; 3876; 3941
ApoI	R!AATTY	4	152; 1178; 1282; 1293
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2879
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	2673; 3326; 4164
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	2763
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	839; 2192
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	2	564; 2934
ArsI	GACNNNNNTTYGNNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	25	133; 184; 237; 552; 600; 615; 667; 820; 1022; 2202; 2206; 2225; 2536; 2614; 2695; 2704; 2782; 3158; 3174; 3533; 3545; 3623; 3631; 3642; 3717
AsiGI	A!CCGGT	1	189
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2482
Asp700I	GAANN!NNTTC	1	439
Asp718I	G!GTACC	1	168
AspA2I	C!CTAGG	2	2186; 3201
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	24	120; 352; 704; 757; 1630; 1638; 1664; 1686; 1695; 1708; 1739; 2358; 2366; 2430; 2467; 2733; 2993; 3169; 3255; 3658; 3767; 3941; 4041; 4108
AspS9I	G!GNCC	12	176; 177; 315; 786; 787; 917; 1471; 2880; 3325; 3371; 3429; 3462
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	150; 3046
AsuC2I	CC!SGG	7	180; 181; 874; 2368; 2528; 3141; 3905
AsuHPI	GGTGANNNNNNNNN!	4	579; 901; 3435; 3551
AsuHPI	!NNNNNNNTCACC	5	243; 597; 675; 1481; 2542
AsuNHI	G!CTAGC	1	114
AvaI	C!YCGRG	4	136; 179; 307; 586
AvaII	G!GWCC	3	917; 2880; 3325
AviII	TGC!GCA	1	2466
AvrII	C!CTAGG	2	2186; 3201
AxyI	CC!TNAGG	2	1844; 3476

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	7	180; 304; 577; 790; 2310; 2403; 3972
BalI	TGG!CCA	1	2446
BamHI	G!GATCC	1	183
BanI	G!GYRCC	9	168; 256; 301; 349; 412; 574; 1517; 2363; 2398
BanII	GRGCY!C	6	143; 180; 790; 1555; 2729; 3439
BanIII	AT!CGAT	1	2204
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	387
BauI	C!ACGAG	2	3082; 4109
BauI	C!TCGTG	1	2956
BbeI	GGCGC!C	2	353; 2367
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	2	384; 516
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	1934; 2006; 2769
BbvI	GCAGCNNNNNN!	8	635; 689; 1152; 2437; 2479; 3000; 3453; 3953
BbvI	!NNNNNNNNNNNGCTGC	8	98; 497; 1646; 2311; 2495; 2588; 3654; 3860
Bbv12I	GWGCW!C	6	143; 343; 644; 2477; 2667; 3972
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	460; 766; 1494; 2058; 2584; 3086
BccI	!NNNNNGATGG	6	381; 564; 667; 1462; 2242; 2670
BceAI	ACGGCNNNNNNNNNN!	7	282; 411; 477; 516; 723; 2790; 3277
BceAI	!NNNNNNNNNNNGCCGT	3	1505; 2323; 3782
BceFI	ACGGCNNNNNNNNNN!	7	282; 411; 477; 516; 723; 2790; 3277
BceFI	!NNNNNNNNNNNGCCGT	3	1506; 2324; 3783
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	1793; 2583; 4084
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	7	180; 181; 874; 2368; 2528; 3141; 3905
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	4217
BdaI	!NNNNNNNNNNTGANNNNNTCA	1	4183
BfaI	C!TAG	9	115; 914; 1019; 1213; 1631; 2187; 3202; 3536; 3789
BfiI	ACTGGGNNNN!	1	2313
BfiI	!NNNNCCCAGT	1	2065
BfmI	C!TRYAG	6	157; 717; 775; 1699; 3826; 4017
BfoI	RGCGC!Y	7	121; 353; 758; 1631; 1639; 2367; 4042
BfrI	C!TTAAG	1	1246
BfuI	GTATCCNNNNN!	3	1793; 2583; 4084
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	380; 653; 2632; 3082
BfuAI	!NNNNNNNGCAGGT	1	2251
BfuCI	!GATC	25	132; 183; 236; 551; 599; 614; 666; 819; 1021; 2201; 2205; 2224; 2535; 2613; 2694; 2703; 2781; 3157; 3173; 3532; 3544; 3622; 3630; 3641; 3716
BglI	GCCNNNN!NGGC	1	2139
BglII	A!GATCT	1	132
BisI	GC!NGC	43	112; 219; 246; 291; 318; 426; 465; 504; 511; 546; 624; 678; 711; 807; 903; 906; 1141; 1660; 1682; 1696; 2134; 2273; 2325; 2336; 2426; 2431; 2468; 2509; 2596; 2602; 2838; 2934; 2975; 2989; 3103; 3442; 3457; 3668; 3874; 3877; 3942; 4085; 4240

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BlnI	C!CTAGG	2	2186; 3201
BlpI	GC!TNAGC	1	376
BlsI	GCN!GC	43	113; 220; 247; 292; 319; 427; 466; 505; 512; 547; 625; 679; 712; 808; 904; 907; 1142; 1661; 1683; 1697; 2135; 2274; 2326; 2337; 2427; 2432; 2469; 2510; 2597; 2603; 2839; 2935; 2976; 2990; 3104; 3443; 3458; 3669; 3875; 3878; 3943; 4086; 4241
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	917; 2880; 3325
Bme1390I	CC!NGG	16	180; 181; 874; 1900; 1955; 1972; 2368; 2528; 2751; 3141; 3330; 3433; 3905; 4123; 4136; 4257
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	136; 179; 307; 586
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	12	177; 178; 316; 787; 788; 918; 1472; 2881; 3326; 3372; 3430; 3463
BmiI	GGN!NCC	23	170; 178; 185; 258; 303; 351; 414; 576; 788; 919; 1519; 1540; 1552; 1743; 1904; 1976; 2365; 2400; 3248; 3327; 3372; 4215; 4254
BmrI	ACTGGGNNNNN!	1	2313
BmrI	!NNNNCCCAGT	1	2065
BmrFI	CC!NGG	16	180; 181; 874; 1900; 1955; 1972; 2368; 2528; 2751; 3141; 3330; 3433; 3905; 4123; 4136; 4257
BmsI	GCATCNNNNN!	10	257; 491; 779; 851; 1180; 1943; 2015; 2663; 2727; 3002
BmsI	!NNNNNNNNNGATGC	5	867; 2322; 2577; 2793; 4185
BmtI	GCTAG!C	1	118
BmuI	ACTGGGNNNNN!	1	2313
BmuI	!NNNNCCCAGT	1	2065
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNGTCTTC	0	
BpII	GAGNNNNCTCNNNNNNNNNNNNN!	2	2153; 3052
BpII	!NNNNNNNGAGNNNNNCTC	2	2121; 3020
BpmI	CTGGAGNNNNNNNNNNNNNNN!	1	3204
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	3147
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	150; 3046
Bpu1102I	GC!TNAGC	1	376
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNN!	2	3658; 4197
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	127; 2740; 3899
BpuMI	CC!SGG	7	180; 181; 874; 2368; 2528; 3141; 3905
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3353
Bsa29I	AT!CGAT	1	2204
BsaAI	YAC!GTR	4	384; 516; 1480; 2668
BsaBI	GATNN!NNATC	3	665; 1026; 2223
BsaHI	GR!CGYC	4	350; 2364; 3066; 3145
BsaJI	C!CNNGG	23	172; 179; 200; 230; 587; 635; 653; 725; 872; 1898; 1970; 2093; 2128; 2137; 2186; 2527; 2796; 3201; 3328; 3329; 3431; 3432; 4122
BsaMI	GAATGCN!	1	1115
BsaMI	G!CATTC	1	1208
BsaWI	W!CCGGW	6	123; 189; 2395; 3239; 3929; 4076
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	736; 1444
BsaXI	!NNNNNNNGGAGNNNNNGT	1	226
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	256
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	706; 1414
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	2	500; 854
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	1365; 3272
Bsc4I	CCNNNNN!NNGG	19	312; 387; 537; 810; 1376; 1702; 2094; 2345; 2889; 3170; 3202; 3334; 3369; 3419; 3451; 3804; 4083; 4249; 4267
BscAI	GCATCNNNN!	10	256; 490; 778; 850; 1179; 1942; 2014; 2662; 2726; 3001

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BscAI	!NNNNNNGATGC	5	870; 2325; 2580; 2796; 4188
BseI	ACTGGN!	3	2308; 2509; 3755
BseI	C!CAGT	4	1393; 2071; 3867; 3880
Bse8I	GATNN!NNATC	3	665; 1026; 2223
Bse2II	CC!TNAGG	2	1844; 3476
Bse118I	R!CCGGY	9	189; 253; 541; 577; 886; 1581; 2683; 2864; 3147
BseAI	T!CCGGA	0	
BseBI	CC!WGG	9	1900; 1955; 1972; 2751; 3330; 3433; 4123; 4136; 4257
BseCI	AT!CGAT	1	2204
BseDI	C!CNNGG	23	172; 179; 200; 230; 587; 635; 653; 725; 872; 1898; 1970; 2093; 2128; 2137; 2186; 2527; 2796; 3201; 3328; 3329; 3431; 3432; 4122
Bse3DI	GCAATGNN!	2	77; 2597
Bse3DI	!CATTGC	1	956
BseGI	GGATGNN!	6	678; 882; 2224; 2681; 2706; 3160
BseGI	!CATCC	4	617; 758; 770; 2050
BseJI	GATNN!NNATC	3	665; 1026; 2223
BseLI	CCNNNNN!NNGG	19	312; 387; 537; 810; 1376; 1702; 2094; 2345; 2889; 3170; 3202; 3334; 3369; 3419; 3451; 3804; 4083; 4249; 4267
BseMI	GCAATGNN!	2	77; 2597
BseMI	!CATTGC	1	956
BseMII	CTCAGNNNNNNNNNN!	2	143; 3490
BseMII	!NNNNNNNNCTGAG	6	367; 1835; 2137; 3018; 3590; 3999
BseNI	ACTGGN!	3	2308; 2509; 3755
BseNI	C!CAGT	4	1393; 2071; 3867; 3880
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	829; 2182
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	7	180; 304; 577; 790; 2310; 2403; 3972
BseXI	GCAGCNNNNNNNN!	8	635; 689; 1152; 2437; 2479; 3000; 3453; 3953
BseXI	!NNNNNNNNNNNGCTGC	8	98; 497; 1646; 2311; 2495; 2588; 3654; 3860
BseX3I	C!GGCCG	3	543; 903; 2270
BseYI	C!CCAGC	6	421; 766; 920; 1907; 1979; 3978
BseYI	G!CTGGG	2	837; 2868
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	3	430; 496; 631
Bsh1236I	CG!CG	18	174; 548; 704; 809; 908; 1288; 1664; 1684; 1708; 1739; 2430; 2731; 3169; 3253; 3316; 3385; 3658; 4239
Bsh1285I	CGRY!CG	5	194; 546; 906; 2273; 3948
BshFI	GG!CC	24	178; 221; 317; 541; 545; 788; 905; 1330; 1472; 2127; 2133; 2142; 2185; 2272; 2446; 2837; 2864; 3373; 3430; 3463; 3808; 4242; 4260; 4271
BshNI	G!GYRCC	9	168; 256; 301; 349; 412; 574; 1517; 2363; 2398
BshTI	A!CCGGT	1	189
BshVI	AT!CGAT	1	2204
BsiEI	CGRY!CG	5	194; 546; 906; 2273; 3948
BsiHKAI	GWGCW!C	6	143; 343; 644; 2477; 2667; 3972
BsiHKCI	C!YCGRG	4	136; 179; 307; 586
BsiSI	C!CGG	24	124; 180; 190; 254; 542; 578; 874; 887; 1582; 2269; 2346; 2368; 2396; 2527; 2617; 2684; 2865; 3140; 3148; 3240; 3714; 3904; 3930; 4077
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	19	312; 387; 537; 810; 1376; 1702; 2094; 2345; 2889; 3170; 3202; 3334; 3369; 3419; 3451; 3804; 4083; 4249; 4267
BsIFI	GGGACNNNNNNNNNN!	3	2515; 3047; 3156
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1880; 1952; 2016; 3311
BsmI	GAATGCN!	1	1115
BsmI	G!CATTC	1	1208
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	4	1788; 2206; 3225; 3353
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2515; 3047; 3156
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1880; 1952; 2016; 3311

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BsnI	GG!CC	24	178; 221; 317; 541; 545; 788; 905; 1330; 1472; 2127; 2133; 2142; 2185; 2272; 2446; 2837; 2864; 3373; 3430; 3463; 3808; 4242; 4260; 4271
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3353
BsoBI	C!YCGRG	4	136; 179; 307; 586
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	5	200; 230; 653; 2093; 2796
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	3167
Bsp24I	!NNNNNNCCANNNNNGTC	2	3588; 3766
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3620; 3798
Bsp24I	!NNNNNNNGACNNNNNTGG	1	3135
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	150; 3046
Bsp120I	G!GGCCC	2	176; 786
Bsp143I	!GATC	25	132; 183; 236; 551; 599; 614; 666; 819; 1021; 2201; 2205; 2224; 2535; 2613; 2694; 2703; 2781; 3157; 3173; 3532; 3544; 3622; 3630; 3641; 3716
Bsp1286I	GDGCH!C	15	143; 180; 304; 343; 577; 644; 790; 1555; 2310; 2403; 2477; 2667; 2729; 3439; 3972
Bsp1407I	T!GTACA	2	96; 931
Bsp1720I	GC!TNAGC	1	376
BspACI	C!CGC	36	172; 227; 246; 318; 480; 531; 546; 621; 687; 804; 807; 906; 1679; 1682; 1696; 1786; 2034; 2046; 2055; 2067; 2077; 2088; 2134; 2273; 2336; 2838; 2883; 2949; 2975; 3100; 3103; 3251; 3383; 3690; 3834; 4330
BspACI	G!CGG	29	174; 218; 290; 293; 425; 464; 503; 710; 902; 1624; 1651; 1739; 1849; 2430; 2494; 2595; 2598; 2878; 2933; 3031; 3169; 3316; 3456; 3699; 3944; 4065; 4084; 4211; 4239
BspCNI	CTCAGNNNNNNNN!	2	142; 3489
BspCNI	!NNNNNNNCTGAG	6	368; 1836; 2138; 3019; 3591; 4000
BspDI	AT!CGAT	1	2204
BspD6I	GACTCNNNN!	5	135; 918; 1437; 3043; 3920
BspD6I	!NNNNNGAGTC	2	1400; 1832
BspEI	T!CCGGA	0	
BspFNI	CG!CG	18	174; 548; 704; 809; 908; 1288; 1664; 1684; 1708; 1739; 2430; 2731; 3169; 3253; 3316; 3385; 3658; 4239
BspHI	T!CATGA	2	1790; 3562
BspLI	GGN!NCC	23	170; 178; 185; 258; 303; 351; 414; 576; 788; 919; 1519; 1540; 1552; 1743; 1904; 1976; 2365; 2400; 3248; 3327; 3372; 4215; 4254
BspMI	ACCTGCNNNN!	4	380; 653; 2632; 3082
BspMI	!NNNNNNNGCAGGT	1	2251
BspOI	GCTAG!C	1	118
BspPI	GGATCNNNN!	9	191; 827; 2232; 2543; 2789; 3181; 3540; 3638; 3724
BspPI	!NNNNNGATCC	5	178; 2608; 3152; 3539; 3636
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	331; 2708; 2918
BspTI	C!TTAAG	1	1246
BspT104I	TT!CGAA	2	150; 3046
BspT107I	G!GYRCC	9	168; 256; 301; 349; 412; 574; 1517; 2363; 2398
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3353
BsrI	ACTGGN!	3	2308; 2509; 3755
BsrI	C!CAGT	4	1393; 2071; 3867; 3880
BsrBI	CCG!CTC	2	1788; 2977
BsrBI	GAG!CGG	3	218; 1624; 3031
BsrDI	GCAATGNN!	2	77; 2597
BsrDI	!CATTGC	1	956
BsrFI	R!CCGGY	9	189; 253; 541; 577; 886; 1581; 2683; 2864; 3147
BsrGI	T!GTACA	2	96; 931
BsrSI	ACTGGN!	3	2308; 2509; 3755
BsrSI	C!CAGT	4	1393; 2071; 3867; 3880
BssAI	R!CCGGY	9	189; 253; 541; 577; 886; 1581; 2683; 2864; 3147
BssECI	C!CNNGG	23	172; 179; 200; 230; 587; 635; 653; 725; 872; 1898; 1970; 2093; 2128; 2137; 2186; 2527; 2796; 3201; 3328; 3329; 3431; 3432; 4122

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssHII	G!CGCGC	0	
BssKI	!CCNGG	16	178; 179; 872; 1898; 1953; 1970; 2366; 2526; 2749; 3139; 3328; 3431; 3903; 4121; 4134; 4255
BssMI	!GATC	25	132; 183; 236; 551; 599; 614; 666; 819; 1021; 2201; 2205; 2224; 2535; 2613; 2694; 2703; 2781; 3157; 3173; 3532; 3544; 3622; 3630; 3641; 3716
BssNI	GR!CGYC	4	350; 2364; 3066; 3145
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3082; 4109
BssSI	C!TCGTG	1	2956
BssT1I	C!CWWGG	7	200; 230; 653; 2093; 2186; 2796; 3201
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	331; 1831; 2708; 2918
Bst98I	C!TTAAG	1	1246
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	4	350; 2364; 3066; 3145
BstAFI	C!TTAAG	1	1246
BstAPI	GCANNNN!NTGC	3	1931; 2003; 3465
BstAUI	T!GTACA	2	96; 931
BstBI	TT!CGAA	2	150; 3046
Bst2BI	C!ACGAG	2	3082; 4109
Bst2BI	C!TCGTG	1	2956
BstBAI	YAC!GTR	4	384; 516; 1480; 2668
Bst4CI	ACN!GT	10	168; 636; 1455; 2744; 2860; 2968; 3291; 3782; 4252; 4323
BstC8I	GCN!NGC	34	109; 116; 176; 223; 227; 449; 508; 543; 700; 860; 1583; 1626; 1640; 1913; 1932; 1985; 2004; 2258; 2444; 2663; 2729; 2735; 2767; 2808; 2812; 2866; 3149; 3336; 3383; 3439; 3461; 3672; 4232; 4269
BstDEI	C!TNAG	8	129; 376; 1844; 2146; 3027; 3476; 3599; 4008
BstDSI	C!CRYGG	8	172; 200; 230; 635; 653; 725; 2093; 2796
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	6	678; 882; 2224; 2681; 2706; 3160
BstF5I	!CATCC	4	617; 758; 770; 2050
BstFNI	CG!CG	18	174; 548; 704; 809; 908; 1288; 1664; 1684; 1708; 1739; 2430; 2731; 3169; 3253; 3316; 3385; 3658; 4239
BstH2I	RGCGC!Y	7	121; 353; 758; 1631; 1639; 2367; 4042
BstHHI	GCG!C	24	120; 352; 704; 757; 1630; 1638; 1664; 1686; 1695; 1708; 1739; 2358; 2366; 2430; 2467; 2733; 2993; 3169; 3255; 3658; 3767; 3941; 4041; 4108
BstKTI	GAT!C	25	135; 186; 239; 554; 602; 617; 669; 822; 1024; 2204; 2208; 2227; 2538; 2616; 2697; 2706; 2784; 3160; 3176; 3535; 3547; 3625; 3633; 3644; 3719
BstMAI	GTCTCN!	0	
BstMAI	!NNNNGAGAC	4	1788; 2206; 3225; 3353
BstMBI	!GATC	25	132; 183; 236; 551; 599; 614; 666; 819; 1021; 2201; 2205; 2224; 2535; 2613; 2694; 2703; 2781; 3157; 3173; 3532; 3544; 3622; 3630; 3641; 3716
BstMCI	CGRY!CG	5	194; 546; 906; 2273; 3948
BstMWI	GCNNNNN!NNGC	27	117; 215; 254; 299; 347; 554; 686; 710; 1591; 1621; 1648; 1690; 1931; 2003; 2054; 2133; 2355; 2439; 2462; 2601; 2724; 2807; 3074; 3261; 3465; 3664; 4236
BstNI	CC!WGG	9	1900; 1955; 1972; 2751; 3330; 3433; 4123; 4136; 4257
BstNSI	RCATG!Y	5	744; 1934; 2006; 2769; 4286
BstOI	CC!WGG	9	1900; 1955; 1972; 2751; 3330; 3433; 4123; 4136; 4257
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	16	178; 179; 872; 1898; 1953; 1970; 2366; 2526; 2749; 3139; 3328; 3431; 3903; 4121; 4134; 4255
BstSFI	C!TRYAG	6	157; 717; 775; 1699; 3826; 4017
BstSLI	GKGC M!C	7	180; 304; 577; 790; 2310; 2403; 3972
BstSNI	TAC!GTA	0	
BstUI	CG!CG	18	174; 548; 704; 809; 908; 1288; 1664; 1684; 1708; 1739; 2430; 2731; 3169; 3253; 3316; 3385; 3658; 4239
Bst2UI	CC!WGG	9	1900; 1955; 1972; 2751; 3330; 3433; 4123; 4136; 4257
BstVII	GCAGC NNNNNNN!	8	635; 689; 1152; 2437; 2479; 3000; 3453; 3953
BstVII	!NNNNNNNNNNNGCTGC	8	98; 497; 1646; 2311; 2495; 2588; 3654; 3860

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	9	132; 183; 2535; 2781; 3173; 3532; 3544; 3630; 3641
BstYI	R!GATCY	9	132; 183; 2535; 2781; 3173; 3532; 3544; 3630; 3641
BstZI	C!GGCCG	3	543; 903; 2270
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	1793; 2583; 4084
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2204
Bsu36I	CC!TNAGG	2	1844; 3476
BsuRI	GG!CC	24	178; 221; 317; 541; 545; 788; 905; 1330; 1472; 2127; 2133; 2142; 2185; 2272; 2446; 2837; 2864; 3373; 3430; 3463; 3808; 4242; 4260; 4271
BsuTUI	AT!CGAT	1	2204
BtgI	C!CRYGG	8	172; 200; 230; 635; 653; 725; 2093; 2796
BtgZI	GCGATGNNNNNNNNNN!	2	1481; 2816
BtgZI	!NNNNNNNNNNNNNNNCATCGC	2	2635; 2979
BthCI	GCNG!C	43	114; 221; 248; 293; 320; 428; 467; 506; 513; 548; 626; 680; 713; 809; 905; 908; 1143; 1662; 1684; 1698; 2136; 2275; 2327; 2338; 2428; 2433; 2470; 2511; 2598; 2604; 2840; 2936; 2977; 2991; 3105; 3444; 3459; 3670; 3876; 3879; 3944; 4087; 4242
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1203
BtsCI	GGATGNN!	6	678; 882; 2224; 2681; 2706; 3160
BtsCI	!CATCC	4	617; 758; 770; 2050
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	380; 653; 2632; 3082
BveI	!NNNNNNNNGCAGGT	1	2251
Cac8I	GCN!NGC	34	109; 116; 176; 223; 227; 449; 508; 543; 700; 860; 1583; 1626; 1640; 1913; 1932; 1985; 2004; 2258; 2444; 2663; 2729; 2735; 2767; 2808; 2812; 2866; 3149; 3336; 3383; 3439; 3461; 3672; 4232; 4269
CaiI	CAGNNN!CTG	2	3465; 3873
CciI	T!CATGA	2	1790; 3562
CciNI	GC!GGCCGC	1	903
CdiI	CATC!G	6	486; 846; 2653; 2658; 2856; 2997
CdiI	C!GATG	2	1467; 2802
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	2	318; 4236
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	2	2025; 2067
CelII	GC!TNAGC	1	376
CfoI	GCG!C	24	120; 352; 704; 757; 1630; 1638; 1664; 1686; 1695; 1708; 1739; 2358; 2366; 2430; 2467; 2733; 2993; 3169; 3255; 3658; 3767; 3941; 4041; 4108
CfrI	Y!GGCCR	6	543; 903; 2270; 2444; 2835; 2862
Cfr9I	C!CCGGG	1	179
Cfr10I	R!CCGGY	9	189; 253; 541; 577; 886; 1581; 2683; 2864; 3147
Cfr13I	G!GNCC	12	176; 177; 315; 786; 787; 917; 1471; 2880; 3325; 3371; 3429; 3462
Cfr42I	CCGC!GG	1	175
ChaI	GATC!	25	136; 187; 240; 555; 603; 618; 670; 823; 1025; 2205; 2209; 2228; 2539; 2617; 2698; 2707; 2785; 3161; 3177; 3536; 3548; 3626; 3634; 3645; 3720
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	2181; 3621; 3721; 3799
CjeI	!NNNNNNNNNACNNNNNNNTGG	5	1848; 1943; 3135; 3685; 4240
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	5	1882; 1977; 3169; 3719; 4274
CjeI	!NNNNNNNNCCANNNNNNNGT	4	2147; 3587; 3687; 3765
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	3621; 3799
CjePI	!NNNNNNNNGANNNNNNNTGG	2	3135; 3734
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	2	3168; 3767
CjePI	!NNNNNNNNCCANNNNNNNTC	2	3588; 3766
Clai	AT!CGAT	1	2204
CpoI	CG!GWCCG	1	2880
CseI	GACGCNNNNN!	2	3074; 3153

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CseI	!NNNNNNNNNNNGCGTC	3	1697; 3592; 4170
CsiI	A!CCWGGT	1	1953
CspI	CG!GWCCG	1	2880
Csp6I	G!TAC	6	97; 169; 492; 852; 932; 2669
Csp45I	TT!CGAA	2	150; 3046
CspAI	A!CCGGT	1	189
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	1644; 3253
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	19	201; 231; 321; 654; 741; 792; 1791; 1931; 2003; 2094; 2235; 2580; 2766; 2797; 2823; 3179; 3563; 4283; 4334
CviJI	RG!CY	94	10; 111; 141; 147; 178; 221; 282; 317; 365; 380; 392; 398; 428; 467; 521; 527; 541; 545; 581; 680; 698; 713; 722; 737; 788; 837; 905; 924; 1033; 1143; 1310; 1330; 1472; 1553; 1567; 1581; 1862; 1903; 1975; 2098; 2127; 2133; 2142; 2150; 2173; 2185; 2191; 2272; 2289; 2297; 2324; 2349; 2433; 2442; 2446; 2470; 2508; 2584; 2601; 2620; 2683; 2727; 2737; 2754; 2837; 2864; 2868; 2905; 2928; 2944; 3124; 3151; 3212; 3334; 3373; 3430; 3437; 3444; 3463; 3474; 3725; 3754; 3797; 3808; 3873; 3952; 3977; 3982; 4028; 4118; 4216; 4242; 4260; 4271
CviKI-1	RG!CY	94	10; 111; 141; 147; 178; 221; 282; 317; 365; 380; 392; 398; 428; 467; 521; 527; 541; 545; 581; 680; 698; 713; 722; 737; 788; 837; 905; 924; 1033; 1143; 1310; 1330; 1472; 1553; 1567; 1581; 1862; 1903; 1975; 2098; 2127; 2133; 2142; 2150; 2173; 2185; 2191; 2272; 2289; 2297; 2324; 2349; 2433; 2442; 2446; 2470; 2508; 2584; 2601; 2620; 2683; 2727; 2737; 2754; 2837; 2864; 2868; 2905; 2928; 2944; 3124; 3151; 3212; 3334; 3373; 3430; 3437; 3444; 3463; 3474; 3725; 3754; 3797; 3808; 3873; 3952; 3977; 3982; 4028; 4118; 4216; 4242; 4260; 4271
CviQI	G!TAC	6	97; 169; 492; 852; 932; 2669
DdeI	C!TNAG	8	129; 376; 1844; 2146; 3027; 3476; 3599; 4008
DinI	GGC!GCC	2	351; 2365
DpnI	GA!TC	25	134; 185; 238; 553; 601; 616; 668; 821; 1023; 2203; 2207; 2226; 2537; 2615; 2696; 2705; 2783; 3159; 3175; 3534; 3546; 3624; 3632; 3643; 3718
DpnII	!GATC	25	132; 183; 236; 551; 599; 614; 666; 819; 1021; 2201; 2205; 2224; 2535; 2613; 2694; 2703; 2781; 3157; 3173; 3532; 3544; 3622; 3630; 3641; 3716
DraI	TTT!AAA	3	1066; 3508; 3527
DraII	RG!GNCCY	3	786; 917; 3462
DraIII	CACNNN!GTG	1	1480
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	1	3844
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1435; 2391; 4180
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1435; 2391; 4180
EaeI	Y!GGCCR	6	543; 903; 2270; 2444; 2835; 2862
EagI	C!GGCCG	3	543; 903; 2270
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	331; 1831; 2708; 2918
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	4	331; 1831; 2708; 2918
EciI	GGCGGANNNNNNNNNNNN!	5	308; 1864; 2893; 4080; 4226
EciI	!NNNNNNNNNTCCGCC	4	793; 2035; 2056; 2077
Ecl136II	GAG!CTC	1	141
EclXI	C!GGCCG	3	543; 903; 2270
Eco24I	GRGCY!C	6	143; 180; 790; 1555; 2729; 3439
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	3353
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	917; 2880; 3325

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco47III	AGC!GCT	1	119
Eco52I	C!GGCCG	3	543; 903; 2270
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	2	2510; 2942
Eco57I	!NNNNNNNNNNNNNNCTTCAG	4	345; 507; 678; 3740
Eco72I	CAC!GTG	2	384; 516
Eco81I	CC!TNAGG	2	1844; 3476
Eco88I	C!YCGRG	4	136; 179; 307; 586
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	7	200; 230; 653; 2093; 2186; 2796; 3201
Eco147I	AGG!CCT	1	2185
EcoHI	!CCSGG	7	178; 179; 872; 2366; 2526; 3139; 3903
EcoICRI	GAG!CTC	1	141
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	3	2510; 2942; 3204
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	345; 507; 678; 3147; 3740
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	3	786; 917; 3462
EcoRI	G!AATTC	1	152
EcoRII	!CCWGG	9	1898; 1953; 1970; 2749; 3328; 3431; 4121; 4134; 4255
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	7	200; 230; 653; 2093; 2186; 2796; 3201
EcoT22I	ATGCA!T	3	1936; 2008; 4339
EcoT38I	GRGCY!C	6	143; 180; 790; 1555; 2729; 3439
Eco53kI	GAG!CTC	1	141
EgeI	GGC!GCC	2	351; 2365
EheI	GGC!GCC	2	351; 2365
ErhI	C!CWWGG	7	200; 230; 653; 2093; 2186; 2796; 3201
EsaBC3I	TC!GA	17	138; 151; 164; 240; 279; 486; 1514; 2205; 2478; 2634; 2658; 2694; 2856; 3047; 3092; 3347; 4185
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	19	204; 234; 324; 657; 744; 795; 1794; 1934; 2006; 2097; 2238; 2583; 2769; 2800; 2826; 3182; 3566; 4286; 4337
Fail	YA!TR	44	83; 202; 232; 322; 655; 742; 793; 948; 1026; 1036; 1102; 1147; 1352; 1780; 1792; 1923; 1932; 1995; 2004; 2028; 2095; 2119; 2236; 2300; 2581; 2606; 2767; 2798; 2824; 2896; 3112; 3180; 3258; 3310; 3471; 3490; 3492; 3564; 3842; 4031; 4147; 4220; 4284; 4335
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	3	91; 977; 2704
FalI	!NNNNNNNNNAAGNNNNNCTT	3	59; 945; 2672
FaqI	GGGACNNNNNNNNNN!	3	2515; 3047; 3156
FaqI	!NNNNNNNNNNNNNGTCCC	4	1880; 1952; 2016; 3311
FatI	!CATG	19	200; 230; 320; 653; 740; 791; 1790; 1930; 2002; 2093; 2234; 2579; 2765; 2796; 2822; 3178; 3562; 4282; 4333
FauI	CCCGCNNNN!	8	234; 487; 694; 1686; 2041; 2062; 3258; 3390
FauI	!NNNNNGCGGG	6	167; 1617; 2487; 3024; 3162; 3309
FauNDI	CA!TATG	0	
FbaI	T!GATCA	0	
FbII	GT!MKAC	1	163
FmuI	GGNC!C	12	179; 180; 318; 789; 790; 920; 1474; 2883; 3328; 3374; 3432; 3465
Fnu4HI	GC!NGC	43	112; 219; 246; 291; 318; 426; 465; 504; 511; 546; 624; 678; 711; 807; 903; 906; 1141; 1660; 1682; 1696; 2134; 2273; 2325; 2336; 2426; 2431; 2468; 2509; 2596; 2602; 2838; 2934; 2975; 2989; 3103; 3442; 3457; 3668; 3874; 3877; 3942; 4085; 4240
FokI	GGATGNNNNNNNN!	6	685; 889; 2231; 2688; 2713; 3167
FokI	!NNNNNNNNNNNNNCATCC	3	604; 745; 2037
FriOI	GRGCY!C	6	143; 180; 790; 1555; 2729; 3439
FseI	GGCCGG!CC	1	545
FspI	TGC!GCA	1	2466
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	115; 914; 1019; 1213; 1631; 2187; 3202; 3536; 3789

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	143	24; 58; 102; 137; 185; 200; 235; 259; 273; 318; 339; 357; 372; 394; 418; 433; 451; 465; 486; 544; 559; 591; 621; 645; 664; 699; 738; 771; 787; 802; 817; 846; 868; 885; 900; 919; 933; 1047; 1086; 1100; 1241; 1336; 1360; 1383; 1406; 1424; 1446; 1467; 1486; 1505; 1534; 1555; 1569; 1595; 1683; 1709; 1758; 1799; 1817; 1856; 1872; 1910; 1967; 1982; 2039; 2059; 2073; 2090; 2104; 2141; 2156; 2199; 2282; 2349; 2380; 2400; 2415; 2460; 2474; 2540; 2554; 2573; 2589; 2630; 2650; 2697; 2747; 2763; 2783; 2808; 2828; 2851; 2878; 2896; 2922; 2962; 2988; 3012; 3068; 3082; 3110; 3153; 3174; 3209; 3253; 3341; 3365; 3387; 3407; 3423; 3444; 3458; 3477; 3561; 3581; 3609; 3624; 3658; 3700; 3727; 3742; 3787; 3811; 3825; 3847; 3873; 3893; 3917; 3943; 3991; 4010; 4029; 4055; 4090; 4135; 4165; 4179; 4230; 4244; 4269; 4285; 4306; 4335
FspEI	!NNNNNNNNNNNNNNNGG	114	93; 151; 175; 203; 239; 268; 298; 332; 373; 395; 446; 481; 523; 550; 574; 622; 640; 659; 692; 712; 767; 796; 823; 859; 887; 925; 969; 1035; 1135; 1204; 1234; 1312; 1361; 1383; 1411; 1447; 1492; 1521; 1557; 1576; 1604; 1624; 1687; 1710; 1818; 1850; 1868; 1897; 1940; 1969; 2080; 2109; 2152; 2173; 2201; 2234; 2254; 2279; 2306; 2331; 2353; 2381; 2407; 2428; 2479; 2500; 2518; 2566; 2602; 2658; 2683; 2707; 2736; 2759; 2783; 2809; 2831; 2850; 2875; 2915; 2951; 3016; 3101; 3125; 3154; 3188; 3209; 3229; 3274; 3301; 3320; 3353; 3405; 3436; 3463; 3515; 3613; 3684; 3729; 3790; 3855; 3889; 3915; 3933; 3969; 4039; 4062; 4084; 4108; 4141; 4189; 4224; 4242; 4299
Fsp4HI	GC!NGC	43	112; 219; 246; 291; 318; 426; 465; 504; 511; 546; 624; 678; 711; 807; 903; 906; 1141; 1660; 1682; 1696; 2134; 2273; 2325; 2336; 2426; 2431; 2468; 2509; 2596; 2602; 2838; 2934; 2975; 2989; 3103; 3442; 3457; 3668; 3874; 3877; 3942; 4085; 4240
GdiII	C!GGCCR	3	543; 903; 2270
GdiII	Y!GGCCG	5	543; 903; 2270; 2835; 2862
GlaI	GC!GC	24	119; 351; 703; 756; 1629; 1637; 1663; 1685; 1694; 1707; 1738; 2357; 2365; 2429; 2466; 2732; 2992; 3168; 3254; 3657; 3766; 3940; 4040; 4107
Glul	GC!NGC	43	112; 219; 246; 291; 318; 426; 465; 504; 511; 546; 624; 678; 711; 807; 903; 906; 1141; 1660; 1682; 1696; 2134; 2273; 2325; 2336; 2426; 2431; 2468; 2509; 2596; 2602; 2838; 2934; 2975; 2989; 3103; 3442; 3457; 3668; 3874; 3877; 3942; 4085; 4240
GsaI	CCCAG!C	6	425; 770; 924; 1911; 1983; 3982
GsaI	GCTGG!G	2	841; 2872
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3204
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3147
HaeI	WGG!CCW	5	2185; 2446; 3808; 4260; 4271
HaeII	RGCGC!Y	7	121; 353; 758; 1631; 1639; 2367; 4042
HaeIII	GG!CC	24	178; 221; 317; 541; 545; 788; 905; 1330; 1472; 2127; 2133; 2142; 2185; 2272; 2446; 2837; 2864; 3373; 3430; 3463; 3808; 4242; 4260; 4271
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	1	2560
HaeIV	!NNNNNNNNNGAYNNNNNRTC	1	2526
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	1	2559
HaeIV	!NNNNNNNGAYNNNNNRTC	1	2528
HapII	C!CGG	24	124; 180; 190; 254; 542; 578; 874; 887; 1582; 2269; 2346; 2368; 2396; 2527; 2617; 2684; 2865; 3140; 3148; 3240; 3714; 3904; 3930; 4077
HgaI	GACGCNNNNN!	2	3074; 3153
HgaI	!NNNNNNNNNNNGCGTC	3	1697; 3592; 4170
HhaI	GCG!C	24	120; 352; 704; 757; 1630; 1638; 1664; 1686; 1695; 1708; 1739; 2358; 2366; 2430; 2467; 2733; 2993; 3169; 3255; 3658; 3767; 3941; 4041; 4108
HinI	GR!CGYC	4	350; 2364; 3066; 3145
Hin1II	CATG!	19	204; 234; 324; 657; 744; 795; 1794; 1934; 2006; 2097; 2238; 2583; 2769; 2800; 2826; 3182; 3566; 4286; 4337
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	1	2559
Hin4I	!NNNNNNNNNGABNNNNNRTC	2	2527; 2557
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	2	2559; 2589
Hin4I	!NNNNNNNNNGAYNNNNNVTC	1	2527
Hin6I	G!CGC	24	118; 350; 702; 755; 1628; 1636; 1662; 1684; 1693; 1706; 1737; 2356; 2364; 2428; 2465; 2731; 2991; 3167; 3253; 3656; 3765; 3939; 4039; 4106

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HinPII	G!CGC	24	118; 350; 702; 755; 1628; 1636; 1662; 1684; 1693; 1706; 1737; 2356; 2364; 2428; 2465; 2731; 2991; 3167; 3253; 3656; 3765; 3939; 4039; 4106
HincII	GTY!RAC	2	164; 1127
HindII	GTY!RAC	2	164; 1127
HindIII	A!AGCTT	1	145
HinfI	G!ANTC	12	127; 910; 1407; 1429; 1839; 2849; 2983; 3035; 3093; 3130; 3912; 4308
HpaI	GTT!AAC	1	1127
HpaII	C!CGG	24	124; 180; 190; 254; 542; 578; 874; 887; 1582; 2269; 2346; 2368; 2396; 2527; 2617; 2684; 2865; 3140; 3148; 3240; 3714; 3904; 3930; 4077
HphI	GGTGANNNNNNNN!	4	579; 901; 3435; 3551
HphI	!NNNNNNNTCACC	5	243; 597; 675; 1481; 2542
Hpy8I	GTN!NAC	7	164; 732; 1127; 1411; 1428; 1483; 3970
Hpy99I	CGWCG!	10	168; 214; 709; 2454; 2482; 2776; 2791; 3068; 3453; 4186
Hpy166II	GTN!NAC	7	164; 732; 1127; 1411; 1428; 1483; 3970
Hpy188I	TCN!GA	11	132; 1538; 2147; 2331; 2675; 3028; 3129; 3608; 3742; 4095; 4173
Hpy188III	TC!NNGA	24	136; 486; 670; 750; 867; 1791; 1843; 2156; 2209; 2382; 2698; 2707; 2790; 2846; 2890; 2980; 3013; 3082; 3563; 3637; 3720; 3818; 3916; 4050
HpyAV	CCTTCNNNNNN!	8	369; 450; 702; 810; 873; 3009; 3116; 3795
HpyAV	!NNNNNGAAGG	7	1597; 2492; 3221; 3237; 3420; 3737; 4047
HpyCH4III	ACN!GT	10	168; 636; 1455; 2744; 2860; 2968; 3291; 3782; 4252; 4323
HpyCH4IV	A!CGT	10	383; 515; 1424; 1436; 1479; 1589; 2480; 2667; 3448; 3581
HpyCH4V	TG!CA	25	55; 159; 447; 513; 648; 744; 777; 880; 976; 1113; 1140; 1208; 1925; 1934; 1997; 2006; 2121; 2197; 2256; 2415; 2590; 2604; 3674; 3970; 4337
HpyF3I	C!TNAG	8	129; 376; 1844; 2146; 3027; 3476; 3599; 4008
HpyF10VI	GCNNNNN!NNGC	27	117; 215; 254; 299; 347; 554; 686; 710; 1591; 1621; 1648; 1690; 1931; 2003; 2054; 2133; 2355; 2439; 2462; 2601; 2724; 2807; 3074; 3261; 3465; 3664; 4236
Hsp92I	GR!CGYC	4	350; 2364; 3066; 3145
Hsp92II	CATG!	19	204; 234; 324; 657; 744; 795; 1794; 1934; 2006; 2097; 2238; 2583; 2769; 2800; 2826; 3182; 3566; 4286; 4337
HspAI	G!CGC	24	118; 350; 702; 755; 1628; 1636; 1662; 1684; 1693; 1706; 1737; 2356; 2364; 2428; 2465; 2731; 2991; 3167; 3253; 3656; 3765; 3939; 4039; 4106
KasI	G!GCGCC	2	349; 2363
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	1127
Kzo9I	!GATC	25	132; 183; 236; 551; 599; 614; 666; 819; 1021; 2201; 2205; 2224; 2535; 2613; 2694; 2703; 2781; 3157; 3173; 3532; 3544; 3622; 3630; 3641; 3716
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	331; 2708; 2918
LpnI	RGCI!GCT	7	119; 351; 756; 1629; 1637; 2365; 4040
LpnPI	CCDGNNNNNNNNNN!	61	58; 137; 193; 235; 267; 367; 385; 435; 457; 555; 591; 658; 712; 780; 868; 887; 934; 1101; 1406; 1595; 1818; 1856; 1872; 1912; 1967; 1984; 2084; 2169; 2282; 2359; 2381; 2404; 2540; 2554; 2573; 2630; 2697; 2747; 2763; 2820; 2878; 3087; 3153; 3177; 3253; 3342; 3445; 3478; 3709; 3727; 3873; 3893; 3917; 3943; 3992; 4090; 4135; 4165; 4244; 4269; 4306
LpnPI	!NNNNNNNNNNNNNNCHGG	52	93; 165; 239; 268; 298; 527; 563; 655; 823; 859; 969; 1447; 1567; 1624; 1687; 1885; 1897; 1957; 1969; 2201; 2246; 2289; 2331; 2353; 2381; 2428; 2490; 2512; 2602; 2669; 2692; 2736; 2831; 2850; 2875; 3024; 3125; 3168; 3225; 3315; 3418; 3445; 3463; 3699; 3736; 3889; 3915; 4055; 4073; 4108; 4189; 4242
Lsp1109I	GCAGCNNNNNNNN!	8	635; 689; 1152; 2437; 2479; 3000; 3453; 3953
Lsp1109I	!NNNNNNNNNNNNNGCTGC	8	98; 497; 1646; 2311; 2495; 2588; 3654; 3860
LweI	GCATCNNNNN!	10	257; 491; 779; 851; 1180; 1943; 2015; 2663; 2727; 3002
LweI	!NNNNNNNNNGATGC	5	867; 2322; 2577; 2793; 4185
MabI	A!CCWGGT	1	1953

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MaeI	C!TAG	9	115; 914; 1019; 1213; 1631; 2187; 3202; 3536; 3789
MaeII	A!CGT	10	383; 515; 1424; 1436; 1479; 1589; 2480; 2667; 3448; 3581
MaeIII	!GTNAC	11	40; 986; 1152; 1653; 1665; 2484; 2790; 3480; 3746; 3862; 3925
MaiI	GA!TC	25	134; 185; 238; 553; 601; 616; 668; 821; 1023; 2203; 2207; 2226; 2537; 2615; 2696; 2705; 2783; 3159; 3175; 3534; 3546; 3624; 3632; 3643; 3718
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1788; 2977
MbiI	GAG!CGG	3	218; 1624; 3031
MboI	!GATC	25	132; 183; 236; 551; 599; 614; 666; 819; 1021; 2201; 2205; 2224; 2535; 2613; 2694; 2703; 2781; 3157; 3173; 3532; 3544; 3622; 3630; 3641; 3716
MboII	GAAGANNNNNNNN!	7	348; 904; 1620; 1848; 2725; 2935; 3554
MboII	!NNNNNNNTCTTC	5	594; 3015; 3182; 3382; 3625
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1114
MflI	R!GATCY	9	132; 183; 2535; 2781; 3173; 3532; 3544; 3630; 3641
MhlI	GDGCH!C	15	143; 180; 304; 343; 577; 644; 790; 1555; 2310; 2403; 2477; 2667; 2729; 3439; 3972
MisI	TGG!CCA	1	2446
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2446
MlyI	GAGTCNNNNN!	2	1416; 1848
MlyI	!NNNNNGACTC	5	121; 904; 1423; 3029; 3906
Mly113I	GG!CGCC	2	350; 2364
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1457
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	3889; 4073
MnII	CCTCNNNNNNN!	7	1083; 2147; 2965; 3171; 3485; 3855; 4179
MnII	!NNNNNNGAGG	17	291; 489; 531; 582; 807; 1043; 1508; 1839; 2117; 2160; 2175; 2215; 2279; 2415; 2772; 3202; 4105
Mph1103I	ATGCA!T	3	1936; 2008; 4339
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	541; 1581; 2864; 3147
MroXI	GAANN!NNTTC	1	439
MscI	TGG!CCA	1	2446
MseI	T!TAA	14	1065; 1126; 1247; 1268; 1279; 1291; 1302; 1319; 1417; 1688; 3507; 3521; 3526; 3578
MslI	CAYNN!NNRTG	1	2801
MspI	C!CGG	24	124; 180; 190; 254; 542; 578; 874; 887; 1582; 2269; 2346; 2368; 2396; 2527; 2617; 2684; 2865; 3140; 3148; 3240; 3714; 3904; 3930; 4077
Msp20I	TGG!CCA	1	2446
MspA1I	CMG!CKG	6	174; 425; 1862; 2470; 3699; 3944
MspCI	C!TTAAG	1	1246

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	222	24; 47; 71; 101; 120; 136; 150; 163; 185; 202; 225; 238; 252; 266; 282; 295; 319; 333; 356; 380; 394; 428; 444; 460; 485; 498; 519; 549; 576; 590; 609; 624; 648; 664; 682; 698; 711; 738; 751; 778; 795; 820; 835; 850; 867; 885; 899; 919; 932; 947; 974; 992; 1011; 1031; 1047; 1071; 1088; 1101; 1142; 1156; 1169; 1187; 1225; 1240; 1258; 1299; 1323; 1343; 1361; 1382; 1405; 1437; 1452; 1474; 1492; 1505; 1526; 1543; 1556; 1569; 1585; 1598; 1628; 1643; 1668; 1686; 1699; 1714; 1738; 1752; 1776; 1801; 1817; 1855; 1871; 1910; 1924; 1938; 1966; 1982; 1996; 2010; 2039; 2052; 2073; 2082; 2104; 2134; 2150; 2168; 2198; 2221; 2245; 2269; 2288; 2316; 2342; 2358; 2371; 2394; 2408; 2428; 2441; 2455; 2474; 2488; 2501; 2517; 2532; 2545; 2561; 2576; 2592; 2617; 2636; 2652; 2665; 2678; 2696; 2710; 2724; 2740; 2762; 2778; 2797; 2819; 2835; 2858; 2877; 2891; 2907; 2921; 2941; 2957; 2970; 2992; 3025; 3039; 3059; 3072; 3086; 3140; 3153; 3176; 3189; 3208; 3225; 3252; 3288; 3321; 3340; 3365; 3386; 3413; 3426; 3443; 3457; 3472; 3488; 3548; 3573; 3589; 3611; 3624; 3638; 3669; 3683; 3708; 3726; 3741; 3754; 3773; 3786; 3801; 3830; 3849; 3867; 3892; 3907; 3926; 3942; 3961; 3979; 3995; 4009; 4028; 4055; 4078; 4100; 4119; 4134; 4147; 4164; 4184; 4211; 4224; 4243; 4268; 4291; 4305; 4318; 4335
MspJI	!NNNNNNNNNNNNYNG	185	16; 35; 53; 80; 101; 122; 142; 159; 176; 199; 217; 240; 263; 293; 316; 340; 358; 375; 395; 416; 434; 465; 493; 510; 528; 550; 572; 598; 622; 640; 672; 689; 710; 727; 753; 778; 796; 820; 841; 859; 893; 915; 935; 956; 980; 1001; 1030; 1074; 1116; 1199; 1234; 1261; 1284; 1313; 1357; 1379; 1411; 1447; 1464; 1485; 1522; 1542; 1559; 1576; 1611; 1629; 1647; 1664; 1688; 1710; 1737; 1765; 1791; 1829; 1850; 1867; 1885; 1908; 1929; 1957; 1980; 2001; 2019; 2040; 2057; 2080; 2104; 2124; 2142; 2164; 2195; 2217; 2243; 2262; 2279; 2307; 2326; 2345; 2363; 2381; 2402; 2424; 2448; 2481; 2501; 2519; 2540; 2566; 2593; 2610; 2627; 2644; 2670; 2692; 2714; 2732; 2752; 2771; 2793; 2831; 2851; 2875; 2895; 2915; 2942; 2966; 2999; 3018; 3046; 3068; 3097; 3125; 3150; 3169; 3188; 3209; 3226; 3243; 3274; 3301; 3321; 3344; 3364; 3401; 3418; 3437; 3463; 3483; 3522; 3549; 3568; 3586; 3623; 3641; 3682; 3700; 3726; 3743; 3775; 3804; 3832; 3853; 3876; 3895; 3916; 3934; 3951; 3969; 3995; 4016; 4036; 4056; 4074; 4095; 4121; 4138; 4157; 4176; 4205; 4224; 4242; 4261; 4279; 4297; 4320
MspR9I	CC!NGG	16	180; 181; 874; 1900; 1955; 1972; 2368; 2528; 2751; 3141; 3330; 3433; 3905; 4123; 4136; 4257
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1114
MvaI	CC!WGG	9	1900; 1955; 1972; 2751; 3330; 3433; 4123; 4136; 4257
Mva1269I	GAATGCN!	1	1115
Mva1269I	G!CATTC	1	1208
MvnI	CG!CG	18	174; 548; 704; 809; 908; 1288; 1664; 1684; 1708; 1739; 2430; 2731; 3169; 3253; 3316; 3385; 3658; 4239
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	27	117; 215; 254; 299; 347; 554; 686; 710; 1591; 1621; 1648; 1690; 1931; 2003; 2054; 2133; 2355; 2439; 2462; 2601; 2724; 2807; 3074; 3261; 3465; 3664; 4236
NaeI	GCC!GGC	4	543; 1583; 2866; 3149
NarI	GG!CGCC	2	350; 2364
NciI	CC!SGG	7	180; 181; 874; 2368; 2528; 3141; 3905
NcoI	C!CATGG	5	200; 230; 653; 2093; 2796
NdeI	CA!TATG	0	
NdeII	!GATC	25	132; 183; 236; 551; 599; 614; 666; 819; 1021; 2201; 2205; 2224; 2535; 2613; 2694; 2703; 2781; 3157; 3173; 3532; 3544; 3622; 3630; 3641; 3716
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	4	541; 1581; 2864; 3147
NheI	G!CTAGC	1	114
NlaIII	CATG!	19	204; 234; 324; 657; 744; 795; 1794; 1934; 2006; 2097; 2238; 2583; 2769; 2800; 2826; 3182; 3566; 4286; 4337

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NlaIV	GGN!NCC	23	170; 178; 185; 258; 303; 351; 414; 576; 788; 919; 1519; 1540; 1552; 1743; 1904; 1976; 2365; 2400; 3248; 3327; 3372; 4215; 4254
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	273; 1196; 1511; 3103
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	367; 550; 4175
Nli3877I	CYCGR!G	4	140; 183; 311; 590
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2153; 2589
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2118
NmeDI	RCCGGYNNNNNN!	9	201; 265; 553; 589; 898; 1593; 2695; 2876; 3159
NmeDI	!NNNNNNNNNNNNRCCGGY	9	176; 240; 528; 564; 873; 1568; 2670; 2851; 3134
NmuCI	!GTSAC	5	40; 986; 1653; 2484; 2790
NotI	GC!GGCCGC	1	903
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2466
NsiI	ATGCA!T	3	1936; 2008; 4339
NspI	RCATG!Y	5	744; 1934; 2006; 2769; 4286
NspV	TT!CGAA	2	150; 3046
OliI	CACNN!NNGTG	0	
PabI	GTA!C	6	99; 171; 494; 854; 934; 2671
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	1934; 2006; 2769
PaeR7I	C!TCGAG	1	136
PagI	T!CATGA	2	1790; 3562
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3329; 3432
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2185
PciI	A!CATGT	1	4282
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	331; 2708; 2918
PcsI	WCGNNNN!NNNCGW	7	491; 2658; 2735; 2978; 3052; 3445; 3963
PctI	GAATGCN!	1	1115
PctI	G!CATTC	1	1208
PdiI	GCC!GGC	4	543; 1583; 2866; 3149
PdmI	GAANN!NNTTC	1	439
PfeI	G!AWTC	5	2849; 2983; 3093; 3130; 4308
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2482
PfIMI	CCANNNN!NTGG	1	387
PfoI	T!CCNGGA	1	3139
PhoI	GG!CC	24	178; 221; 317; 541; 545; 788; 905; 1330; 1472; 2127; 2133; 2142; 2185; 2272; 2446; 2837; 2864; 3373; 3430; 3463; 3808; 4242; 4260; 4271
PinAI	A!CCGGT	1	189
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	2745
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2310; 2565
PleI	GAGTCNNNN!	2	1415; 1847
PleI	!NNNNNGACTC	5	121; 904; 1423; 3029; 3906
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	2	384; 516
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	2	384; 516
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1446
PpiI	!NNNNNNNGAGNNNNNGTTC	1	3576
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3608
PpiI	!NNNNNNNGAACNNNNNCTC	1	1414
Ppsi	GAGTCNNNN!	2	1415; 1847
Ppsi	!NNNNNGACTC	5	121; 904; 1423; 3029; 3906
Ppu10I	A!TGCAT	3	1932; 2004; 4335
Ppu21I	YAC!GTR	4	384; 516; 1480; 2668
PpuMI	RG!GWCCY	1	917
PscI	A!CATGT	1	4282
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	4	83; 948; 1147; 1352

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Psp03I	GGWC!C	3	920; 2883; 3328
Psp5II	RG!GWCCY	1	917
Psp6I	!CCWGG	9	1898; 1953; 1970; 2749; 3328; 3431; 4121; 4134; 4255
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	143
PspCI	CAC!GTG	2	384; 516
PspEI	G!GTNACC	0	
PspGI	!CCWGG	9	1898; 1953; 1970; 2749; 3328; 3431; 4121; 4134; 4255
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	23	170; 178; 185; 258; 303; 351; 414; 576; 788; 919; 1519; 1540; 1552; 1743; 1904; 1976; 2365; 2400; 3248; 3327; 3372; 4215; 4254
PspOMI	G!GGCCC	2	176; 786
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	2	2094; 3093
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	1	2496
PspPI	G!GNCC	12	176; 177; 315; 786; 787; 917; 1471; 2880; 3325; 3371; 3429; 3462
PspPPI	RG!GWCCY	1	917
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	5	440; 785; 1917; 1989; 3495
PspPRI	!NNNNNNNNNNNNNNCTGRGG	2	1830; 3025
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNGAACNNNNNTAC	0	
PssI	RGGNC!CY	3	789; 920; 3465
PstI	CTGCA!G	2	161; 779
PstNI	CAGNNN!CTG	2	3465; 3873
PsuI	R!GATCY	9	132; 183; 2535; 2781; 3173; 3532; 3544; 3630; 3641
PsyI	GACN!NNGTC	1	2482
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	1862; 2470
RcaI	T!CATGA	2	1790; 3562
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	2879
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	1	545
RleAI	CCCACANNNNNNNNNNNN!	1	1093
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	2	521; 614
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	98; 170; 493; 853; 933; 2670
RsaNI	G!TAC	6	97; 169; 492; 852; 932; 2669
RseI	CAYNN!NNRTG	1	2801
RsrII	CG!GWCCG	1	2880
Rsr2I	CG!GWCCG	1	2880
SacI	GAGCT!C	1	143
SacII	CCGC!GG	1	175
SalI	G!TCGAC	1	162
SapI	GCTTCN!	0	
SapI	!NNNNGAAGAGC	3	331; 2708; 2918
SaqAI	T!TAA	14	1065; 1126; 1247; 1268; 1279; 1291; 1302; 1319; 1417; 1688; 3507; 3521; 3526; 3578
SatI	GC!NGC	43	112; 219; 246; 291; 318; 426; 465; 504; 511; 546; 624; 678; 711; 807; 903; 906; 1141; 1660; 1682; 1696; 2134; 2273; 2325; 2336; 2426; 2431; 2468; 2509; 2596; 2602; 2838; 2934; 2975; 2989; 3103; 3442; 3457; 3668; 3874; 3877; 3942; 4085; 4240
Sau96I	G!GNCC	12	176; 177; 315; 786; 787; 917; 1471; 2880; 3325; 3371; 3429; 3462
Sau3AI	!GATC	25	132; 183; 236; 551; 599; 614; 666; 819; 1021; 2201; 2205; 2224; 2535; 2613; 2694; 2703; 2781; 3157; 3173; 3532; 3544; 3622; 3630; 3641; 3716

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	1416; 1848
SchI	!NNNNNGACTC	5	121; 904; 1423; 3029; 3906
SciI	CTC!GAG	1	138
ScrFI	CC!NGG	16	180; 181; 874; 1900; 1955; 1972; 2368; 2528; 2751; 3141; 3330; 3433; 3905; 4123; 4136; 4257
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	4	1942; 2014; 2183; 4125
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2519; 3004
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	15	143; 180; 304; 343; 577; 644; 790; 1555; 2310; 2403; 2477; 2667; 2729; 3439; 3972
SelI	!CGCG	18	172; 546; 702; 807; 906; 1286; 1662; 1682; 1706; 1737; 2428; 2729; 3167; 3251; 3314; 3383; 3656; 4237
SetI	ASST!	59	47; 143; 149; 284; 361; 374; 386; 418; 518; 523; 529; 569; 647; 682; 694; 724; 839; 926; 988; 1054; 1075; 1084; 1096; 1145; 1312; 1427; 1439; 1482; 1519; 1569; 1592; 1716; 1864; 1959; 2152; 2265; 2393; 2472; 2483; 2555; 2626; 2670; 2930; 3076; 3120; 3451; 3482; 3541; 3584; 3727; 3748; 3847; 3984; 3999; 4018; 4030; 4074; 4120; 4171
SexAI	A!CCWGGT	1	1953
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	257; 491; 779; 851; 1180; 1943; 2015; 2663; 2727; 3002
SfaNI	!NNNNNNNNNGATGC	5	867; 2322; 2577; 2793; 4185
SfcI	C!TRYAG	6	157; 717; 775; 1699; 3826; 4017
SfiI	GGCCNNNN!NGGCC	1	2139
SfoI	GGC!GCC	2	351; 2365
Sfr274I	C!TCGAG	1	136
Sfr303I	CCGC!GG	1	175
SfuI	TT!CGAA	2	150; 3046
SgeI	CNNGNNNNNNNNN!	178	6; 57; 120; 136; 150; 185; 202; 225; 238; 252; 266; 282; 295; 319; 333; 366; 384; 434; 456; 491; 507; 526; 549; 576; 590; 609; 624; 648; 666; 682; 698; 711; 738; 753; 779; 795; 820; 846; 867; 885; 899; 919; 933; 996; 1031; 1071; 1100; 1142; 1225; 1299; 1383; 1405; 1437; 1474; 1492; 1511; 1526; 1568; 1585; 1602; 1637; 1651; 1668; 1690; 1714; 1738; 1803; 1817; 1855; 1871; 1911; 1924; 1943; 1966; 1983; 1996; 2015; 2045; 2066; 2083; 2106; 2141; 2168; 2199; 2221; 2247; 2269; 2288; 2316; 2352; 2371; 2394; 2408; 2428; 2441; 2455; 2474; 2488; 2507; 2539; 2553; 2566; 2592; 2623; 2636; 2653; 2670; 2684; 2701; 2719; 2734; 2762; 2778; 2797; 2819; 2835; 2858; 2877; 2902; 2921; 2941; 2968; 2992; 3025; 3044; 3072; 3086; 3152; 3176; 3191; 3214; 3235; 3252; 3300; 3327; 3341; 3370; 3394; 3427; 3444; 3464; 3477; 3490; 3548; 3575; 3594; 3624; 3649; 3669; 3683; 3708; 3726; 3763; 3801; 3830; 3858; 3872; 3892; 3907; 3928; 3942; 3961; 3979; 3995; 4035; 4055; 4082; 4100; 4121; 4134; 4147; 4164; 4188; 4211; 4243; 4268; 4295; 4317
SgeI	!NNNNNNNNNNNNNCNNG	154	31; 94; 122; 159; 176; 199; 217; 240; 265; 293; 316; 340; 358; 408; 430; 465; 493; 523; 550; 572; 598; 622; 640; 672; 689; 712; 736; 753; 778; 796; 820; 841; 859; 893; 915; 970; 1005; 1045; 1074; 1116; 1199; 1273; 1357; 1379; 1411; 1448; 1466; 1485; 1542; 1559; 1576; 1611; 1629; 1649; 1669; 1688; 1712; 1777; 1829; 1885; 1917; 1940; 1957; 1989; 2019; 2040; 2057; 2080; 2115; 2142; 2173; 2195; 2221; 2243; 2262; 2290; 2326; 2345; 2368; 2389; 2407; 2424; 2448; 2481; 2513; 2540; 2566; 2597; 2627; 2644; 2670; 2693; 2714; 2736; 2756; 2776; 2793; 2832; 2851; 2876; 2895; 2915; 2942; 2966; 2999; 3018; 3046; 3068; 3126; 3150; 3169; 3188; 3209; 3226; 3274; 3301; 3321; 3344; 3368; 3401; 3418; 3438; 3464; 3522; 3549; 3568; 3598; 3623; 3643; 3682; 3700; 3737; 3775; 3804; 3832; 3853; 3881; 3902; 3935; 3953; 4009; 4029; 4056; 4074; 4095; 4121; 4138; 4162; 4185; 4217; 4242; 4269; 4291; 4320
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	175

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1511; 3298; 4091
SimI	!GACCC	5	869; 917; 2792; 3360; 3608
SinI	G!GWCC	3	917; 2880; 3325
SlaI	C!TCGAG	1	136
SmaI	CCC!GGG	1	181
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	1	2801
SmlI	C!TYRAG	7	136; 142; 1246; 2755; 3637; 3914; 4176
SmoI	C!TYRAG	7	136; 142; 1246; 2755; 3637; 3914; 4176
SmuI	CCCGCNNNN!	8	234; 487; 694; 1686; 2041; 2062; 3258; 3390
SmuI	!NNNNNNNGCGGG	6	167; 1617; 2487; 3024; 3162; 3309
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	1934; 2006; 2769
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	12	60; 152; 967; 1114; 1178; 1256; 1282; 1293; 1940; 2012; 2104; 3522
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2185
SsiI	C!CGC	36	172; 227; 246; 318; 480; 531; 546; 621; 687; 804; 807; 906; 1679; 1682; 1696; 1786; 2034; 2046; 2055; 2067; 2077; 2088; 2134; 2273; 2336; 2838; 2883; 2949; 2975; 3100; 3103; 3251; 3383; 3690; 3834; 4330
SsiI	G!CGG	29	174; 218; 290; 293; 425; 464; 503; 710; 902; 1624; 1651; 1739; 1849; 2430; 2494; 2595; 2598; 2878; 2933; 3031; 3169; 3316; 3456; 3699; 3944; 4065; 4084; 4211; 4239
SspI	AAT!ATT	2	1272; 1825
SspDI	G!GCGCC	2	349; 2363
SspD5I	GGTGANNNNNNNN!	4	579; 901; 3435; 3551
SspD5I	!NNNNNNNNNTCACC	5	242; 596; 674; 1480; 2541
SstI	GAGCT!C	1	143
SstII	CCGC!GG	1	175
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	19	186; 233; 314; 486; 593; 693; 880; 1563; 1685; 2040; 2061; 2374; 2777; 2916; 2987; 3257; 3389; 3619; 4057
Sth132I	!NNNNNNNNCGGG	17	166; 774; 1564; 1616; 1717; 2444; 2486; 2519; 3023; 3132; 3161; 3308; 3412; 3443; 3896; 3940; 4148
Sth302II	CC!GG	24	125; 181; 191; 255; 543; 579; 875; 888; 1583; 2270; 2347; 2369; 2397; 2528; 2618; 2685; 2866; 3141; 3149; 3241; 3715; 3905; 3931; 4078
StrI	C!TCGAG	1	136
StsI	GGATGNNNNNNNNNN!	6	686; 890; 2232; 2689; 2714; 3168
StsI	!NNNNNNNNNNNNNNCATCC	3	603; 744; 2036
StuI	AGG!CCT	1	2185
StyI	C!CWWGG	7	200; 230; 653; 2093; 2186; 2796; 3201
StyD4I	!CCNGG	16	178; 179; 872; 1898; 1953; 1970; 2366; 2526; 2749; 3139; 3328; 3431; 3903; 4121; 4134; 4255
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	10	168; 636; 1455; 2744; 2860; 2968; 3291; 3782; 4252; 4323
TaiI	ACGT!	10	386; 518; 1427; 1439; 1482; 1592; 2483; 2670; 3451; 3584
TaqI	T!CGA	17	137; 150; 163; 239; 278; 485; 1513; 2204; 2477; 2633; 2657; 2693; 2855; 3046; 3091; 3346; 4184
TaqII	GACCGANNNNNNNNNN!	3	1384; 2401; 3069
TaqII	!NNNNNNNNNTCGGTC	1	3313
TaqII	CACCCANNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	2	2268; 2860
TasI	!AATT	12	60; 152; 967; 1114; 1178; 1256; 1282; 1293; 1940; 2012; 2104; 3522
TatI	W!GTACW	2	96; 931
TauI	GCSG!C	27	221; 248; 293; 320; 428; 467; 506; 548; 713; 809; 905; 908; 1684; 1698; 2136; 2275; 2338; 2433; 2598; 2601; 2840; 2936; 2977; 3105; 3459; 4087; 4242
TfiI	G!AWTC	5	2849; 2983; 3093; 3130; 4308

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TliI	C!TCGAG	1	136
Tru1I	T!TAA	14	1065; 1126; 1247; 1268; 1279; 1291; 1302; 1319; 1417; 1688; 3507; 3521; 3526; 3578
Tru9I	T!TAA	14	1065; 1126; 1247; 1268; 1279; 1291; 1302; 1319; 1417; 1688; 3507; 3521; 3526; 3578
TscAI	CASTGNN!	5	1210; 2493; 3603; 3874; 3887
TseI	G!CWGC	17	111; 510; 623; 677; 1140; 1659; 2324; 2425; 2467; 2508; 2601; 2988; 3441; 3667; 3873; 3876; 3941
TsoI	TARCCANNNNNNNNNNN!	2	1336; 1683
TsoI	!NNNNNNNNNTGGYTA	2	1141; 2893
Tsp45I	!GTSAC	5	40; 986; 1653; 2484; 2790
Tsp509I	!AATT	12	60; 152; 967; 1114; 1178; 1256; 1282; 1293; 1940; 2012; 2104; 3522
TspDTI	ATGAANNNNNNNNNNN!	4	349; 1122; 2423; 3127
TspDTI	!NNNNNNNNNTTCAT	3	2841; 3297; 3504
TspEI	!AATT	12	60; 152; 967; 1114; 1178; 1256; 1282; 1293; 1940; 2012; 2104; 3522
TspGWI	ACGGANNNNNNNNNNN!	1	3239
TspGWI	!NNNNNNNNNTCCGT	1	714
TspMI	C!CCGGG	1	179
TspRI	CASTGNN!	5	1210; 2493; 3603; 3874; 3887
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	1	226
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	1	258
TstI	!NNNNNNNCCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2482
Tth111II	CAARCANNNNNNNNNNN!	1	3691
Tth111III	!NNNNNNNNNTGYTTG	3	2799; 3659; 3698
UnbI	!GGNCC	12	175; 176; 314; 785; 786; 916; 1470; 2879; 3324; 3370; 3428; 3461
Van91I	CCANNNN!NTGG	1	387
Vha464I	C!TTAAG	1	1246
VneI	G!TGCAC	1	3968
VpaK11AI	!GGWCC	3	916; 2879; 3324
VpaK11BI	G!GWCC	3	917; 2880; 3325
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	152; 1178; 1282; 1293
XbaI	T!CTAGA	0	
XceI	RCATG!Y	5	744; 1934; 2006; 2769; 4286
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	136
XhoII	R!GATCY	9	132; 183; 2535; 2781; 3173; 3532; 3544; 3630; 3641
XmaI	C!CCGGG	1	179
XmaJI	C!CTAGG	2	2186; 3201
XmiI	GT!MKAC	1	163
XmnI	GAANN!NNTTC	1	439
XspI	C!TAG	9	115; 914; 1019; 1213; 1631; 2187; 3202; 3536; 3789
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	1936; 2008; 4339