

Gateway® TagRFP-AS-C entry clone

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	4	83; 961; 1167; 1372
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	4	445; 1455; 2411; 4200
AatI	AGG!CCT	1	2205
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	887
AccII	CG!CG	15	898; 1272; 1308; 1684; 1704; 1728; 1759; 2450; 2751; 3189; 3273; 3336; 3405; 3678; 4259
AccIII	T!CCGGA	1	847
Acc16I	TGC!GCA	1	2486
Acc36I	ACCTGCNNNN!	2	2652; 3102
Acc36I	!NNNNNNNNGCAGGT	1	2271
Acc65I	G!GTACC	1	892
AccB1I	G!GYRCC	4	892; 1537; 2383; 2418
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	1808; 2997
AccBSI	GAG!CGG	2	1644; 3051
AceIII	CAGCTCNNNNNNN!	1	1340
AceIII	!NNNNNNNNNNGAGCTG	0	
AciI	C!CGC	25	896; 1699; 1702; 1716; 1806; 2054; 2066; 2075; 2087; 2097; 2108; 2154; 2293; 2356; 2858; 2903; 2969; 2995; 3120; 3123; 3271; 3403; 3710; 3854; 4350
AciI	G!CGG	21	898; 1644; 1671; 1759; 1869; 2450; 2514; 2615; 2618; 2898; 2953; 3051; 3189; 3336; 3476; 3719; 3964; 4085; 4104; 4231; 4259
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	915; 924; 2252; 2563; 2809; 3201; 3560; 3658; 3744
AclWI	!NNNNNGATCC	6	611; 902; 2628; 3172; 3559; 3656
AcoI	Y!GGCCR	4	2290; 2464; 2855; 2882
AcsI	R!AATTY	5	519; 876; 1198; 1302; 1313
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	422; 2530; 2962
AcuI	!NNNNNNNNNNNNNCTTCAG	1	3760
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	3	2384; 3086; 3165
AdeI	CACNNN!GTG	1	1500
AfaI	GT!AC	6	98; 225; 589; 894; 946; 2690
AfeI	AGC!GCT	1	119
AfiI	CCNNNNN!NNGG	22	253; 366; 532; 598; 680; 803; 920; 1396; 1722; 2114; 2365; 2909; 3190; 3222; 3354; 3389; 3439; 3471; 3824; 4103; 4269; 4287
AflII	C!TTAAG	1	631
AflIII	A!CRYGT	2	1270; 4302
AgeI	A!CCGGT	1	123
AgsI	TTS!AA	6	843; 1795; 1839; 1849; 2262; 3838
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	12	343; 461; 714; 1918; 1973; 1990; 2769; 3348; 3451; 4141; 4154; 4275
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	1	136
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	1958; 2030
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	2	1924; 1996
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1466
AloI	!NNNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1434
AluI	AG!CT	17	571; 636; 828; 865; 871; 937; 1163; 1330; 1587; 1882; 2170; 2490; 2948; 3745; 4002; 4048; 4138
AluBI	AG!CT	17	571; 636; 828; 865; 871; 937; 1163; 1330; 1587; 1882; 2170; 2490; 2948; 3745; 4002; 4048; 4138
AlwI	GGATCNNNN!	9	915; 924; 2252; 2563; 2809; 3201; 3560; 3658; 3744
AlwI	!NNNNNGATCC	6	611; 902; 2628; 3172; 3559; 3656
Alw21I	GWGCW!C	4	867; 2497; 2687; 3992
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	4	1808; 2226; 3245; 3373
Alw44I	G!TGCAC	1	3988
AlwNI	CAGNN!CTG	2	3485; 3893
Ama87I	C!YCGRG	2	860; 903
Aor13HI	T!CCGGA	1	847
Aor51HI	AG!GCT	1	119
ApaI	GGGCC!C	1	904
ApaBI	GCANNNNN!TGC	3	1952; 2024; 3486
ApaLI	G!TGCAC	1	3988
ApeKI	G!CWGC	14	111; 1160; 1679; 2344; 2445; 2487; 2528; 2621; 3008; 3461; 3687; 3893; 3896; 3961
ApoI	R!AATTY	5	519; 876; 1198; 1302; 1313
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2899
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	2693; 3346; 4184
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	2783
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2212
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	2954
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	22	617; 657; 857; 908; 917; 1042; 2222; 2226; 2245; 2556; 2634; 2715; 2724; 2802; 3178; 3194; 3553; 3565; 3643; 3651; 3662; 3737
AsiGI	A!CCGGT	1	123
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2502
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	892
AspA2I	C!CTAGG	2	2206; 3221
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	21	120; 1650; 1658; 1684; 1706; 1715; 1728; 1759; 2378; 2386; 2450; 2487; 2753; 3013; 3189; 3275; 3678; 3787; 3961; 4061; 4128
AspS9I	G!GNCC	12	292; 347; 535; 627; 732; 901; 1491; 2900; 3345; 3391; 3449; 3482
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	874; 3066
AsuC2I	CC!SGG	6	904; 905; 2388; 2548; 3161; 3925
AsuHPI	GGTGANNNNNNNNN!	4	150; 247; 3455; 3571
AsuHPI	!NNNNNNNTCACC	3	202; 1501; 2562
AsuNH1	G!CTAGC	1	114
AvaI	C!YCGRG	2	860; 903
AvaII	G!GWCC	6	292; 347; 535; 732; 2900; 3345
AviII	TGC!GCA	1	2486
AvrII	C!CTAGG	2	2206; 3221

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AxyI	CC!TNAGG	2	1864; 3496
BaeI	ACNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI:C	4	904; 2330; 2423; 3992
BalI	TGG!CCA	1	2466
BamHI	G!GATCC	1	907
BanI	G!GYRCC	4	892; 1537; 2383; 2418
BanII	GRGCY!C	5	867; 904; 1575; 2749; 3459
BanIII	AT!CGAT	1	2224
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	0	
BauI	C!ACGAG	2	3102; 4129
BauI	C!TCGTG	1	2976
BbeI	GGCGC!C	1	2387
Bbr7I	GAAGACNNNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	1954; 2026; 2789
BbvI	GCAGCNNNNNNNN!	6	1172; 2457; 2499; 3020; 3473; 3973
BbvI	!NNNNNNNNNNNGCTGC	7	98; 1666; 2331; 2515; 2608; 3674; 3880
Bbv12I	GWGCW!C	4	867; 2497; 2687; 3992
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	4	1514; 2078; 2604; 3106
BccI	!NNNNNGATGG	4	475; 1482; 2262; 2690
BceAI	ACGGCNNNNNNNNNNNN!	2	2810; 3297
BceAI	!NNNNNNNNNNNNNGCCGT	4	781; 1525; 2343; 3802
BceFI	ACGGCNNNNNNNNNNNN!	2	2810; 3297
BceFI	!NNNNNNNNNNNNNGCCGT	4	782; 1526; 2344; 3803
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	1813; 2603; 4104
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1041
BcnI	CC!SGG	6	904; 905; 2388; 2548; 3161; 3925
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNN!	2	1064; 4237
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	2	1030; 4203
BfaI	C!TAG	16	115; 319; 527; 559; 637; 742; 803; 829; 920; 1032; 1233; 1651; 2207; 3222; 3556; 3809
BfiI	ACTGGGNNNNN!	1	2333
BfiI	!NNNNCCCAGT	1	2085
BfmI	C!TRYAG	4	881; 1719; 3846; 4037
BfoI	RGCGC!Y	5	121; 1651; 1659; 2387; 4062
BfrI	C!TTAAG	1	631
BfuI	GTATCCNNNNNN!	3	1813; 2603; 4104
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	2652; 3102
BfuAI	!NNNNNNNNNGCAGGT	1	2271
BfuCI	!GATC	22	616; 656; 856; 907; 916; 1041; 2221; 2225; 2244; 2555; 2633; 2714; 2723; 2801; 3177; 3193; 3552; 3564; 3642; 3650; 3661; 3736
BglI	GCCNNNN!NGGC	1	2159
BglII	A!GATCT	1	856

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BisI	GC!NGC	28	112; 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
BlnI	C!CTAGG	2	2206; 3221
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	28	113; 1162; 1681; 1703; 1717; 2155; 2294; 2346; 2357; 2447; 2452; 2489; 2530; 2617; 2623; 2859; 2955; 2996; 3010; 3124; 3463; 3478; 3689; 3895; 3898; 3963; 4106; 4261
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	6	292; 347; 535; 732; 2900; 3345
Bme1390I	CC!NGG	18	345; 463; 716; 904; 905; 1920; 1975; 1992; 2388; 2548; 2771; 3161; 3350; 3453; 3925; 4143; 4156; 4277
BmeRI	GACNN!NNGTC	0	
BmeT110I	C!YCGRG	2	860; 903
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	12	293; 348; 536; 628; 733; 902; 1492; 2901; 3346; 3392; 3450; 3483
BmiI	GGN!NCC	18	258; 342; 894; 902; 909; 1539; 1560; 1572; 1763; 1924; 1996; 2385; 2420; 3268; 3347; 3392; 4235; 4274
BmrI	ACTGGGNNNNN!	1	2333
BmrI	!NNNNCCCAGT	1	2085
BmrFI	CC!NGG	18	345; 463; 716; 904; 905; 1920; 1975; 1992; 2388; 2548; 2771; 3161; 3350; 3453; 3925; 4143; 4156; 4277
BmsI	GCATCNNNNN!	6	1200; 1963; 2035; 2683; 2747; 3022
BmsI	!NNNNNNNNNGATGC	5	475; 2342; 2597; 2813; 4205
BmtI	GCTAG!C	1	118
BmuI	ACTGGGNNNNN!	1	2333
BmuI	!NNNNCCCAGT	1	2085
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNCTCNNNNNNNNNNNN!	2	2173; 3072
BpI	!NNNNNNNNGAGNNNNNCTC	2	2141; 3040
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3224
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3167
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	874; 3066
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	3678; 4217
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	851; 2760; 3919
BpuMI	CC!SGG	6	904; 905; 2388; 2548; 3161; 3925
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3373
Bsa29I	AT!CGAT	1	2224
BsaAI	YAC!GTR	3	777; 1500; 2688
BsaBI	GATNN!NNATC	2	1046; 2243
BsaHI	GR!CGYC	3	2384; 3086; 3165
BsaJI	C!CNNGG	18	134; 461; 896; 903; 1918; 1990; 2113; 2148; 2157; 2206; 2547; 2816; 3221; 3348; 3349; 3451; 3452; 4142
BsaMI	GAATGCN!	1	1135
BsaMI	G!CATTC	1	1228
BsaWI	W!CCGGW	7	123; 847; 913; 2415; 3259; 3949; 4096
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1464
BsaXI	!NNNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1434
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTTG	2	1385; 3292
Bsc4I	CCNNNNN!NNGG	22	253; 366; 532; 598; 680; 803; 920; 1396; 1722; 2114; 2365; 2909; 3190; 3222; 3354; 3389; 3439; 3471; 3824; 4103; 4269; 4287

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BscAI	GCATCNNNN!	6	1199; 1962; 2034; 2682; 2746; 3021
BscAI	!NNNNNNGATGC	5	478; 2345; 2600; 2816; 4208
BseI	ACTGGN!	3	2328; 2529; 3775
BseI	C!CAGT	5	538; 1413; 2091; 3887; 3900
Bse8I	GATNN!NNATC	2	1046; 2243
Bse2II	CC!TNAGG	2	1864; 3496
Bse118I	R!CCGGY	5	123; 1601; 2703; 2884; 3167
BseAI	T!CCGGA	1	847
BseBI	CC!WGG	12	345; 463; 716; 1920; 1975; 1992; 2771; 3350; 3453; 4143; 4156; 4277
BseCI	AT!CGAT	1	2224
BseDI	C!CNNGG	18	134; 461; 896; 903; 1918; 1990; 2113; 2148; 2157; 2206; 2547; 2816; 3221; 3348; 3349; 3451; 3452; 4142
Bse3DI	GCAATGNN!	2	77; 2617
Bse3DI	!CATTGC	1	969
BseGI	GGATGNN!	5	490; 2244; 2701; 2726; 3180
BseGI	!CATCC	1	2070
BseJI	GATNN!NNATC	2	1046; 2243
BseLI	CCNNNNN!NNGG	22	253; 366; 532; 598; 680; 803; 920; 1396; 1722; 2114; 2365; 2909; 3190; 3222; 3354; 3389; 3439; 3471; 3824; 4103; 4269; 4287
BseMI	GCAATGNN!	2	77; 2617
BseMI	!CATTGC	1	969
BseMII	CTCAGNNNNNNNNNN!	3	379; 867; 3510
BseMII	!NNNNNNNNCTGAG	5	1855; 2157; 3038; 3610; 4019
BseNI	ACTGGN!	3	2328; 2529; 3775
BseNI	C!CAGT	5	538; 1413; 2091; 3887; 3900
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2202
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	4	904; 2330; 2423; 3992
BseXI	GCAGCNNNNNNNN!	6	1172; 2457; 2499; 3020; 3473; 3973
BseXI	!NNNNNNNNNNNGCTGC	7	98; 1666; 2331; 2515; 2608; 3674; 3880
BseX3I	C!GGCCG	1	2290
BseYI	C!CCAGC	4	933; 1927; 1999; 3998
BseYI	G!CTGGG	1	2888
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	15	898; 1272; 1308; 1684; 1704; 1728; 1759; 2450; 2751; 3189; 3273; 3336; 3405; 3678; 4259
Bsh1285I	CGRY!CG	3	128; 2293; 3968
BshFI	GG!CC	19	628; 902; 1350; 1492; 2147; 2153; 2162; 2205; 2292; 2466; 2857; 2884; 3393; 3450; 3483; 3828; 4262; 4280; 4291
BshNI	G!GYRCC	4	892; 1537; 2383; 2418
BshTI	A!CCGGT	1	123
BshVI	AT!CGAT	1	2224
BsiEI	CGRY!CG	3	128; 2293; 3968
BsiHKAI	GWGCW!C	4	867; 2497; 2687; 3992
BsiHKCI	C!YCGRG	2	860; 903
BsiSI	C!CGG	20	124; 848; 904; 914; 1602; 2289; 2366; 2388; 2416; 2547; 2637; 2704; 2885; 3160; 3168; 3260; 3734; 3924; 3950; 4097
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	22	253; 366; 532; 598; 680; 803; 920; 1396; 1722; 2114; 2365; 2909; 3190; 3222; 3354; 3389; 3439; 3471; 3824; 4103; 4269; 4287
BsIFI	GGGACNNNNNNNNNN!	3	2535; 3067; 3176
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1900; 1972; 2036; 3331
BsmI	GAATGCN!	1	1135
BsmI	G!CATTC	1	1228
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	4	1808; 2226; 3245; 3373
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2535; 3067; 3176
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1900; 1972; 2036; 3331

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BsnI	GG!CC	19	628; 902; 1350; 1492; 2147; 2153; 2162; 2205; 2292; 2466; 2857; 2884; 3393; 3450; 3483; 3828; 4262; 4280; 4291
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3373
BsoBI	C!YCGRG	2	860; 903
Bsp13I	T!CCGGA	1	847
Bsp19I	C!CATGG	3	134; 2113; 2816
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	3187
Bsp24I	!NNNNNNCCANNNNNNGTC	3	816; 3608; 3786
Bsp24I	CCANNNNNNGTCNNNNNNNNNN!	3	848; 3640; 3818
Bsp24I	!NNNNNNNGACNNNNNNNTGG	1	3155
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	874; 3066
Bsp120I	G!GGCCC	1	900
Bsp143I	!GATC	22	616; 656; 856; 907; 916; 1041; 2221; 2225; 2244; 2555; 2633; 2714; 2723; 2801; 3177; 3193; 3552; 3564; 3642; 3650; 3661; 3736
Bsp1286I	GDGCH!C	10	867; 904; 1575; 2330; 2423; 2497; 2687; 2749; 3459; 3992
Bsp1407I	T!GTACA	3	96; 223; 944
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	25	896; 1699; 1702; 1716; 1806; 2054; 2066; 2075; 2087; 2097; 2108; 2154; 2293; 2356; 2858; 2903; 2969; 2995; 3120; 3123; 3271; 3403; 3710; 3854; 4350
BspACI	G!CGG	21	898; 1644; 1671; 1759; 1869; 2450; 2514; 2615; 2618; 2898; 2953; 3051; 3189; 3336; 3476; 3719; 3964; 4085; 4104; 4231; 4259
BspCNI	CTCAGNNNNNNNN!	3	378; 866; 3509
BspCNI	!NNNNNNNCTGAG	5	1856; 2158; 3039; 3611; 4020
BspDI	AT!CGAT	1	2224
BspD6I	GA CT C N N N N !	4	859; 1457; 3063; 3940
BspD6I	!NNNNNGAGTC	3	439; 1420; 1852
BspEI	T!CCGGA	1	847
BspFNI	CG!CG	15	898; 1272; 1308; 1684; 1704; 1728; 1759; 2450; 2751; 3189; 3273; 3336; 3405; 3678; 4259
BspHI	T!CATGA	2	1810; 3582
BspLI	GGN!NCC	18	258; 342; 894; 902; 909; 1539; 1560; 1572; 1763; 1924; 1996; 2385; 2420; 3268; 3347; 3392; 4235; 4274
BspMI	ACCTGCNNNN!	2	2652; 3102
BspMI	!NNNNNNNGCAGGT	1	2271
BspOI	GCTAG!C	1	118
BspPI	GGATC N N N N !	9	915; 924; 2252; 2563; 2809; 3201; 3560; 3658; 3744
BspPI	!NNNNNGATCC	6	611; 902; 2628; 3172; 3559; 3656
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	2728; 2938
BspTI	C!TTAAG	1	631
BspT104I	TT!CGAA	2	874; 3066
BspT107I	G!GYRCC	4	892; 1537; 2383; 2418
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3373
BsrI	ACTGGN!	3	2328; 2529; 3775
BsrI	C!CAGT	5	538; 1413; 2091; 3887; 3900
BsrBI	CCG!CTC	2	1808; 2997
BsrBI	GAG!CGG	2	1644; 3051
BsrDI	GCAATGNN!	2	77; 2617
BsrDI	!CATTGC	1	969
BsrFI	R!CCGGY	5	123; 1601; 2703; 2884; 3167
BsrGI	T!GTACA	3	96; 223; 944
BsrSI	ACTGGN!	3	2328; 2529; 3775
BsrSI	C!CAGT	5	538; 1413; 2091; 3887; 3900
BssAI	R!CCGGY	5	123; 1601; 2703; 2884; 3167
BssECI	C!CNNGG	18	134; 461; 896; 903; 1918; 1990; 2113; 2148; 2157; 2206; 2547; 2816; 3221; 3348; 3349; 3451; 3452; 4142
BssHII	G!CGCGC	0	
BssKI	!CCNGG	18	343; 461; 714; 902; 903; 1918; 1973; 1990; 2386; 2546; 2769; 3159; 3348; 3451; 3923; 4141; 4154; 4275

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssMI	!GATC	22	616; 656; 856; 907; 916; 1041; 2221; 2225; 2244; 2555; 2633; 2714; 2723; 2801; 3177; 3193; 3552; 3564; 3642; 3650; 3661; 3736
BssNI	GR!CGYC	3	2384; 3086; 3165
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3102; 4129
BssSI	C!TCGTG	1	2976
BssT1I	C!CWWGG	5	134; 2113; 2206; 2816; 3221
Bst6I	CTCTCN!	1	302
Bst6I	!NNNNGAAGAG	4	146; 1851; 2728; 2938
Bst98I	C!TTAAG	1	631
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	3	2384; 3086; 3165
BstAFI	C!TTAAG	1	631
BstAPI	GCANNNN!NTGC	3	1951; 2023; 3485
BstAUI	T!GTACA	3	96; 223; 944
BstBI	TT!CGAA	2	874; 3066
Bst2BI	C!ACGAG	2	3102; 4129
Bst2BI	C!TCGTG	1	2976
BstBAI	YAC!GTR	3	777; 1500; 2688
Bst4CI	ACN!GT	12	201; 392; 442; 892; 1475; 2764; 2880; 2988; 3311; 3802; 4272; 4343
BstC8I	GCN!NGC	28	109; 116; 695; 900; 1603; 1646; 1660; 1933; 1952; 2005; 2024; 2278; 2464; 2683; 2749; 2755; 2787; 2828; 2832; 2886; 3169; 3356; 3403; 3459; 3481; 3692; 4252; 4289
BstDEI	C!TNAG	9	365; 686; 853; 1864; 2166; 3047; 3496; 3619; 4028
BstDSI	C!CRYGG	4	134; 896; 2113; 2816
BstEII	G!GTNACC	1	423
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	5	490; 2244; 2701; 2726; 3180
BstF5I	!CATCC	1	2070
BstFNI	CG!CG	15	898; 1272; 1308; 1684; 1704; 1728; 1759; 2450; 2751; 3189; 3273; 3336; 3405; 3678; 4259
BstH2I	RGCGC!Y	5	121; 1651; 1659; 2387; 4062
BstHHI	GCG!C	21	120; 1650; 1658; 1684; 1706; 1715; 1728; 1759; 2378; 2386; 2450; 2487; 2753; 3013; 3189; 3275; 3678; 3787; 3961; 4061; 4128
BstKTI	GAT!C	22	619; 659; 859; 910; 919; 1044; 2224; 2228; 2247; 2558; 2636; 2717; 2726; 2804; 3180; 3196; 3555; 3567; 3645; 3653; 3664; 3739
BstMAI	GTCTCN!	0	
BstMAI	!NNNNGAGAC	4	1808; 2226; 3245; 3373
BstMBI	!GATC	22	616; 656; 856; 907; 916; 1041; 2221; 2225; 2244; 2555; 2633; 2714; 2723; 2801; 3177; 3193; 3552; 3564; 3642; 3650; 3661; 3736
BstMCI	CGRY!CG	3	128; 2293; 3968
BstMWI	GCNNNNN!NNGC	20	117; 1611; 1641; 1668; 1710; 1951; 2023; 2074; 2153; 2375; 2459; 2482; 2621; 2744; 2827; 3094; 3281; 3485; 3684; 4256
BstNI	CC!WGG	12	345; 463; 716; 1920; 1975; 1992; 2771; 3350; 3453; 4143; 4156; 4277
BstNSI	RCATG!Y	5	174; 1954; 2026; 2789; 4306
BstOI	CC!WGG	12	345; 463; 716; 1920; 1975; 1992; 2771; 3350; 3453; 4143; 4156; 4277
BstPI	G!GTNACC	1	423
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	18	343; 461; 714; 902; 903; 1918; 1973; 1990; 2386; 2546; 2769; 3159; 3348; 3451; 3923; 4141; 4154; 4275
BstSFI	C!TRYAG	4	881; 1719; 3846; 4037
BstSLI	GKGC!C	4	904; 2330; 2423; 3992
BstSNI	TAC!GTA	0	
BstUI	CG!CG	15	898; 1272; 1308; 1684; 1704; 1728; 1759; 2450; 2751; 3189; 3273; 3336; 3405; 3678; 4259
Bst2UI	CC!WGG	12	345; 463; 716; 1920; 1975; 1992; 2771; 3350; 3453; 4143; 4156; 4277
BstV1I	GCAGCNNNNNNNN!	6	1172; 2457; 2499; 3020; 3473; 3973
BstV1I	!NNNNNNNNNNNNGCTGC	7	98; 1666; 2331; 2515; 2608; 3674; 3880
BstV2I	GAAGACNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstV2I	!NNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	11	616; 856; 907; 916; 2555; 2801; 3193; 3552; 3564; 3650; 3661
BstYI	R!GATCY	11	616; 856; 907; 916; 2555; 2801; 3193; 3552; 3564; 3650; 3661
BstZI	C!GGCCG	1	2290
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNN!	3	1813; 2603; 4104
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2224
Bsu36I	CC!TNAGG	2	1864; 3496
BsuRI	GG!CC	19	628; 902; 1350; 1492; 2147; 2153; 2162; 2205; 2292; 2466; 2857; 2884; 3393; 3450; 3483; 3828; 4262; 4280; 4291
BsuTUI	AT!CGAT	1	2224
BtgI	C!CRYGG	4	134; 896; 2113; 2816
BtgZI	GCGATGNNNNNNNNN!	2	1501; 2836
BtgZI	!NNNNNNNNNNNNNNCATCGC	2	2655; 2999
BthCI	GCNG!C	28	114; 1163; 1682; 1704; 1718; 2156; 2295; 2347; 2358; 2448; 2453; 2490; 2531; 2618; 2624; 2860; 2956; 2997; 3011; 3125; 3464; 3479; 3690; 3896; 3899; 3964; 4107; 4262
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1223
BtsCI	GGATGNN!	5	490; 2244; 2701; 2726; 3180
BtsCI	!CATCC	1	2070
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	2652; 3102
BveI	!NNNNNNNNNGCAGGT	1	2271
Cac8I	GCN!NGC	28	109; 116; 695; 900; 1603; 1646; 1660; 1933; 1952; 2005; 2024; 2278; 2464; 2683; 2749; 2755; 2787; 2828; 2832; 2886; 3169; 3356; 3403; 3459; 3481; 3692; 4252; 4289
CaiI	CAGNNN!CTG	2	3485; 3893
CciI	T!CATGA	2	1810; 3582
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	4	2673; 2678; 2876; 3017
CdiI	C!GATG	2	1487; 2822
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4256
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	2	2045; 2087
CelII	GC!TNAGC	0	
CfoI	GCG!C	21	120; 1650; 1658; 1684; 1706; 1715; 1728; 1759; 2378; 2386; 2450; 2487; 2753; 3013; 3189; 3275; 3678; 3787; 3961; 4061; 4128
CfrI	Y!GGCCR	4	2290; 2464; 2855; 2882
Cfr9I	C!CCGGG	1	903
Cfr10I	R!CCGGY	5	123; 1601; 2703; 2884; 3167
Cfr13I	G!GNCC	12	292; 347; 535; 627; 732; 901; 1491; 2900; 3345; 3391; 3449; 3482
Cfr42I	CCGC!GG	1	899
ChaI	GATC!	22	620; 660; 860; 911; 920; 1045; 2225; 2229; 2248; 2559; 2637; 2718; 2727; 2805; 3181; 3197; 3556; 3568; 3646; 3654; 3665; 3740
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNN!	7	159; 238; 849; 2201; 3641; 3741; 3819
CjeI	!NNNNNNNNNACNNNNNNNTGG	5	1868; 1963; 3155; 3705; 4260
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	5	1902; 1997; 3189; 3739; 4294
CjeI	!NNNNNNNNCCANNNNNNGT	7	125; 204; 815; 2167; 3607; 3707; 3785
CjePI	CCANNNNNNTCNNNNNNNNNNNNNNN!	4	487; 849; 3641; 3819
CjePI	!NNNNNNNNNGANNNNNNNNTGG	3	608; 3155; 3754
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	641; 3188; 3787
CjePI	!NNNNNNNNCCANNNNNNNNTC	4	454; 816; 3608; 3786
Clai	AT!CGAT	1	2224
CpoI	CG!GWCCG	1	2900
CseI	GACGCNNNNN!	2	3094; 3173
CseI	!NNNNNNNNNNNGCGTC	3	1717; 3612; 4190
CsiI	A!CCWGGT	1	1973
CspI	CG!GWCCG	1	2900
Csp6I	G!TAC	6	97; 224; 588; 893; 945; 2689

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Csp45I	TT!CGAA	2	874; 3066
CspAI	A!CCGGT	1	123
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	1664; 3273
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	20	135; 171; 189; 333; 413; 624; 787; 1811; 1951; 2023; 2114; 2255; 2600; 2786; 2817; 2843; 3199; 3583; 4303; 4354
CviJI	RG!CY	78	10; 111; 246; 571; 628; 636; 693; 828; 865; 871; 902; 937; 1053; 1163; 1330; 1350; 1492; 1573; 1587; 1601; 1882; 1923; 1995; 2118; 2147; 2153; 2162; 2170; 2193; 2205; 2211; 2292; 2309; 2317; 2344; 2369; 2453; 2462; 2466; 2490; 2528; 2604; 2621; 2640; 2703; 2747; 2757; 2774; 2857; 2884; 2888; 2925; 2948; 2964; 3144; 3171; 3232; 3354; 3393; 3450; 3457; 3464; 3483; 3494; 3745; 3774; 3817; 3828; 3893; 3972; 3997; 4002; 4048; 4138; 4236; 4262; 4280; 4291
CviKI-1	RG!CY	78	10; 111; 246; 571; 628; 636; 693; 828; 865; 871; 902; 937; 1053; 1163; 1330; 1350; 1492; 1573; 1587; 1601; 1882; 1923; 1995; 2118; 2147; 2153; 2162; 2170; 2193; 2205; 2211; 2292; 2309; 2317; 2344; 2369; 2453; 2462; 2466; 2490; 2528; 2604; 2621; 2640; 2703; 2747; 2757; 2774; 2857; 2884; 2888; 2925; 2948; 2964; 3144; 3171; 3232; 3354; 3393; 3450; 3457; 3464; 3483; 3494; 3745; 3774; 3817; 3828; 3893; 3972; 3997; 4002; 4048; 4138; 4236; 4262; 4280; 4291
CviQI	G!TAC	6	97; 224; 588; 893; 945; 2689
DdeI	C!TNAG	9	365; 686; 853; 1864; 2166; 3047; 3496; 3619; 4028
DinI	GGC!GCC	1	2385
DpnI	GA!TC	22	618; 658; 858; 909; 918; 1043; 2223; 2227; 2246; 2557; 2635; 2716; 2725; 2803; 3179; 3195; 3554; 3566; 3644; 3652; 3663; 3738
DpnII	!GATC	22	616; 656; 856; 907; 916; 1041; 2221; 2225; 2244; 2555; 2633; 2714; 2723; 2801; 3177; 3193; 3552; 3564; 3642; 3650; 3661; 3736
DraI	TTT!AAA	5	387; 669; 1086; 3528; 3547
DraII	RG!GNCCY	3	292; 347; 3482
DraIII	CACNNN!GTG	1	1500
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	1	3864
DraRI	!NNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	4	445; 1455; 2411; 4200
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	445; 1455; 2411; 4200
EaeI	Y!GGCCR	4	2290; 2464; 2855; 2882
EagI	C!GGCCG	1	2290
Eam1104I	CTCTCN!	1	302
Eam1104I	!NNNNGAAGAG	4	146; 1851; 2728; 2938
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	1	302
EarI	!NNNNGAAGAG	4	146; 1851; 2728; 2938
EciI	GGCGANNNNNNNNNNNN!	4	1884; 2913; 4100; 4246
EciI	!NNNNNNNNNTCCGCC	3	2055; 2076; 2097
Ecl136II	GAG!CTC	1	865
EclXI	C!GGCCG	1	2290
Eco24I	GRGCY!C	5	867; 904; 1575; 2749; 3459
Eco31I	GGTTCN!	0	
Eco31I	!NNNNNGAGACC	1	3373
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	6	292; 347; 535; 732; 2900; 3345
Eco47III	AGC!GCT	1	119
Eco52I	C!GGCCG	1	2290
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	422; 2530; 2962
Eco57I	!NNNNNNNNNNNNNNNNCTCAG	1	3760
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	2	1864; 3496

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco88I	C!YCGRG	2	860; 903
Eco91I	G!GTNACC	1	423
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	5	134; 2113; 2206; 2816; 3221
Eco147I	AGG!CCT	1	2205
EcoHI	!CCSGG	6	902; 903; 2386; 2546; 3159; 3923
EcoICRI	GAG!CTC	1	865
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	4	422; 2530; 2962; 3224
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	2	3167; 3760
EcoNI	CCTNN!NNNAGG	0	
EcoO65I	G!GTNACC	1	423
EcoO109I	RG!GNCCY	3	292; 347; 3482
EcoRI	G!AATTC	1	876
EcoRII	!CCWGG	12	343; 461; 714; 1918; 1973; 1990; 2769; 3348; 3451; 4141; 4154; 4275
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	134; 2113; 2206; 2816; 3221
EcoT22I	ATGCA!T	4	176; 1956; 2028; 4359
EcoT38I	GRGCY!C	5	867; 904; 1575; 2749; 3459
Eco53kl	GAG!CTC	1	865
EgeI	GGC!GCC	1	2385
EheI	GGC!GCC	1	2385
ErhI	C!CWWGG	5	134; 2113; 2206; 2816; 3221
EsaBC3I	TC!GA	14	862; 875; 888; 1534; 2225; 2498; 2654; 2678; 2714; 2876; 3067; 3112; 3367; 4205
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	20	138; 174; 192; 336; 416; 627; 790; 1814; 1954; 2026; 2117; 2258; 2603; 2789; 2820; 2846; 3202; 3586; 4306; 4357
FaiI	YA!TR	58	83; 136; 172; 176; 178; 186; 190; 249; 268; 316; 334; 338; 362; 414; 495; 544; 625; 680; 728; 737; 788; 961; 1046; 1056; 1122; 1167; 1372; 1800; 1812; 1943; 1952; 2015; 2024; 2048; 2115; 2139; 2256; 2320; 2601; 2626; 2787; 2818; 2844; 2916; 3132; 3200; 3278; 3330; 3491; 3510; 3512; 3584; 3862; 4051; 4167; 4240; 4304; 4355
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	3	91; 990; 2724
FalI	!NNNNNNNNNAAGNNNNNNCTT	3	59; 958; 2692
FaqI	GGGACNNNNNNNNNN!	3	2535; 3067; 3176
FaqI	!NNNNNNNNNNNNNGTCCC	4	1900; 1972; 2036; 3331
FatI	!CATG	20	134; 170; 188; 332; 412; 623; 786; 1810; 1950; 2022; 2113; 2254; 2599; 2785; 2816; 2842; 3198; 3582; 4302; 4353
FauI	CCCGCNNNN!	5	1706; 2061; 2082; 3278; 3410
FauI	!NNNNNGCGGG	6	891; 1637; 2507; 3044; 3182; 3329
FauNDI	CA!TATG	1	176
FbaI	T!GATCA	1	1041
FbII	GT!MKAC	1	887
FmuI	GGNC!C	12	295; 350; 538; 630; 735; 904; 1494; 2903; 3348; 3394; 3452; 3485
Fnu4HI	GC!NGC	28	112; 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
FokI	GGATGNNNNNNNN!	5	497; 2251; 2708; 2733; 3187
FokI	!NNNNNNNNNNNNNCATCC	1	2057
FriOI	GRGCY!C	5	867; 904; 1575; 2749; 3459
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2486
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	16	115; 319; 527; 559; 637; 742; 803; 829; 920; 1032; 1233; 1651; 2207; 3222; 3556; 3809

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	134	24; 58; 102; 137; 226; 260; 274; 308; 357; 373; 388; 413; 441; 474; 502; 538; 604; 633; 687; 707; 728; 748; 810; 833; 861; 909; 924; 946; 1067; 1106; 1120; 1261; 1356; 1380; 1403; 1426; 1444; 1466; 1487; 1506; 1525; 1554; 1575; 1589; 1615; 1703; 1729; 1778; 1819; 1837; 1876; 1892; 1930; 1987; 2002; 2059; 2079; 2093; 2110; 2124; 2161; 2176; 2219; 2302; 2369; 2400; 2420; 2435; 2480; 2494; 2560; 2574; 2593; 2609; 2650; 2670; 2717; 2767; 2783; 2803; 2828; 2848; 2871; 2898; 2916; 2942; 2982; 3008; 3032; 3088; 3102; 3130; 3173; 3194; 3229; 3273; 3361; 3385; 3407; 3427; 3443; 3464; 3478; 3497; 3581; 3601; 3629; 3644; 3678; 3720; 3747; 3762; 3807; 3831; 3845; 3867; 3893; 3913; 3937; 3963; 4011; 4030; 4049; 4075; 4110; 4155; 4185; 4199; 4250; 4264; 4289; 4305; 4326; 4355
FspEI	!NNNNNNNNNNNNNNNGG	115	93; 121; 175; 217; 238; 268; 323; 352; 389; 421; 448; 467; 495; 518; 545; 584; 610; 629; 666; 701; 732; 763; 789; 815; 833; 875; 899; 938; 982; 1055; 1155; 1224; 1332; 1381; 1403; 1431; 1467; 1512; 1541; 1577; 1596; 1624; 1644; 1707; 1730; 1838; 1870; 1888; 1917; 1960; 1989; 2100; 2129; 2172; 2193; 2221; 2254; 2274; 2299; 2326; 2351; 2373; 2401; 2427; 2448; 2499; 2520; 2538; 2586; 2622; 2678; 2703; 2727; 2756; 2779; 2803; 2829; 2851; 2870; 2895; 2935; 2971; 3036; 3121; 3145; 3174; 3208; 3229; 3249; 3294; 3321; 3340; 3373; 3425; 3456; 3483; 3535; 3633; 3704; 3749; 3810; 3875; 3909; 3935; 3953; 3989; 4059; 4082; 4104; 4128; 4161; 4209; 4244; 4262; 4319
Fsp4HI	GC!NGC	28	112; 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
GdiII	C!GGCCR	1	2290
GdiII	Y!GGCCG	3	2290; 2855; 2882
GlaI	GC!GC	21	119; 1649; 1657; 1683; 1705; 1714; 1727; 1758; 2377; 2385; 2449; 2486; 2752; 3012; 3188; 3274; 3677; 3786; 3960; 4060; 4127
GluI	GC!NGC	28	112; 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
GsaI	CCCAG!C	4	937; 1931; 2003; 4002
GsaI	GCTGG!G	1	2892
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3224
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3167
HaeI	WGG!CCW	5	2205; 2466; 3828; 4280; 4291
HaeII	RGCGC!Y	5	121; 1651; 1659; 2387; 4062
HaeIII	GG!CC	19	628; 902; 1350; 1492; 2147; 2153; 2162; 2205; 2292; 2466; 2857; 2884; 3393; 3450; 3483; 3828; 4262; 4280; 4291
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	3	674; 1059; 2580
HaeIV	!NNNNNNNNNGAYNNNNNRTC	3	640; 1025; 2546
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	3	673; 1058; 2579
HaeIV	!NNNNNNNNNGAYNNNNNRTC	3	642; 1027; 2548
HapII	C!CGG	20	124; 848; 904; 914; 1602; 2289; 2366; 2388; 2416; 2547; 2637; 2704; 2885; 3160; 3168; 3260; 3734; 3924; 3950; 4097
HgaI	GACGCNNNNN!	2	3094; 3173
HgaI	!NNNNNNNNNNNGCGTC	3	1717; 3612; 4190
HhaI	GCG!C	21	120; 1650; 1658; 1684; 1706; 1715; 1728; 1759; 2378; 2386; 2450; 2487; 2753; 3013; 3189; 3275; 3678; 3787; 3961; 4061; 4128
Hin1I	GR!CGYC	3	2384; 3086; 3165
Hin1II	CATG!	20	138; 174; 192; 336; 416; 627; 790; 1814; 1954; 2026; 2117; 2258; 2603; 2789; 2820; 2846; 3202; 3586; 4306; 4357
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	3	673; 1058; 2579
Hin4I	!NNNNNNNNNGABNNNNNRTC	4	641; 1026; 2547; 2577
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	4	673; 1058; 2579; 2609
Hin4I	!NNNNNNNNNGAYNNNNNVTC	3	641; 1026; 2547
Hin6I	G!CGC	21	118; 1648; 1656; 1682; 1704; 1713; 1726; 1757; 2376; 2384; 2448; 2485; 2751; 3011; 3187; 3273; 3676; 3785; 3959; 4059; 4126
HinP1I	G!CGC	21	118; 1648; 1656; 1682; 1704; 1713; 1726; 1757; 2376; 2384; 2448; 2485; 2751; 3011; 3187; 3273; 3676; 3785; 3959; 4059; 4126
HincII	GTY!RAC	2	888; 1147
HindII	GTY!RAC	2	888; 1147

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HindIII	A!AGCTT	1	869
HinfI	G!ANTC	15	272; 371; 446; 702; 851; 1427; 1449; 1859; 2869; 3003; 3055; 3113; 3150; 3932; 4328
HpaI	GTT!AAC	1	1147
HpaII	C!CGG	20	124; 848; 904; 914; 1602; 2289; 2366; 2388; 2416; 2547; 2637; 2704; 2885; 3160; 3168; 3260; 3734; 3924; 3950; 4097
HphI	GGTGANNNNNNNN!	4	150; 247; 3455; 3571
HphI	!NNNNNNNTCACC	3	202; 1501; 2562
Hpy8I	GTN!NAC	10	224; 649; 723; 732; 888; 1147; 1431; 1448; 1503; 3990
Hpy99I	CGWCG!	10	601; 802; 892; 2474; 2502; 2796; 2811; 3088; 3473; 4206
Hpy166II	GTN!NAC	10	224; 649; 723; 732; 888; 1147; 1431; 1448; 1503; 3990
Hpy188I	TCN!GA	14	231; 621; 643; 856; 1558; 2167; 2351; 2695; 3048; 3149; 3628; 3762; 4115; 4193
Hpy188III	TC!NNGA	23	400; 450; 848; 860; 1811; 1863; 2176; 2229; 2402; 2718; 2727; 2810; 2866; 2910; 3000; 3033; 3102; 3583; 3657; 3740; 3838; 3936; 4070
HpyAV	CCTTCNNNNNN!	5	360; 830; 3029; 3136; 3815
HpyAV	!NNNNNGAAGG	9	397; 604; 1617; 2512; 3241; 3257; 3440; 3757; 4067
HpyCH4III	ACN!GT	12	201; 392; 442; 892; 1475; 2764; 2880; 2988; 3311; 3802; 4272; 4343
HpyCH4IV	A!CGT	9	776; 1444; 1456; 1499; 1609; 2500; 2687; 3468; 3601
HpyCH4V	TG!CA	21	55; 174; 546; 883; 989; 1133; 1160; 1228; 1945; 1954; 2017; 2026; 2141; 2217; 2276; 2435; 2610; 2624; 3694; 3990; 4357
HpyF3I	C!TNAG	9	365; 686; 853; 1864; 2166; 3047; 3496; 3619; 4028
HpyF10VI	GCNNNNN!NNGC	20	117; 1611; 1641; 1668; 1710; 1951; 2023; 2074; 2153; 2375; 2459; 2482; 2621; 2744; 2827; 3094; 3281; 3485; 3684; 4256
Hsp92I	GR!CGYC	3	2384; 3086; 3165
Hsp92II	CATG!	20	138; 174; 192; 336; 416; 627; 790; 1814; 1954; 2026; 2117; 2258; 2603; 2789; 2820; 2846; 3202; 3586; 4306; 4357
HspAI	G!CGC	21	118; 1648; 1656; 1682; 1704; 1713; 1726; 1757; 2376; 2384; 2448; 2485; 2751; 3011; 3187; 3273; 3676; 3785; 3959; 4059; 4126
KasI	G!GCGCC	1	2383
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	896
Kpn2I	T!CCGGA	1	847
KspI	CCGC!GG	1	899
Ksp22I	T!GATCA	1	1041
KspAI	GTT!AAC	1	1147
Kzo9I	!GATC	22	616; 656; 856; 907; 916; 1041; 2221; 2225; 2244; 2555; 2633; 2714; 2723; 2801; 3177; 3193; 3552; 3564; 3642; 3650; 3661; 3736
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	2728; 2938
LpnI	RG!GCGY	5	119; 1649; 1657; 2385; 4060
LpnPI	CCDGNNNNNNNNNN!	57	58; 137; 357; 389; 413; 475; 551; 605; 707; 728; 861; 917; 947; 1121; 1426; 1615; 1838; 1876; 1892; 1932; 1987; 2004; 2104; 2189; 2302; 2379; 2401; 2424; 2560; 2574; 2593; 2650; 2717; 2767; 2783; 2840; 2898; 3107; 3173; 3197; 3273; 3362; 3465; 3498; 3729; 3747; 3893; 3913; 3937; 3963; 4012; 4110; 4155; 4185; 4264; 4289; 4326
LpnPI	!NNNNNNNNNNNNNCHGG	49	93; 330; 352; 448; 701; 833; 889; 982; 1467; 1587; 1644; 1707; 1905; 1917; 1977; 1989; 2221; 2266; 2309; 2351; 2373; 2401; 2448; 2510; 2532; 2622; 2689; 2712; 2756; 2851; 2870; 2895; 3044; 3145; 3188; 3245; 3335; 3438; 3465; 3483; 3719; 3756; 3909; 3935; 4075; 4093; 4128; 4209; 4262
Lsp1109I	GCAGCNNNNNNNN!	6	1172; 2457; 2499; 3020; 3473; 3973
Lsp1109I	!NNNNNNNNNNNGCTGC	7	98; 1666; 2331; 2515; 2608; 3674; 3880
LweI	GCATCNNNNNN!	6	1200; 1963; 2035; 2683; 2747; 3022
LweI	!NNNNNNNNNGATGC	5	475; 2342; 2597; 2813; 4205
MabI	A!CCWGGT	1	1973
MaeI	C!TAG	16	115; 319; 527; 559; 637; 742; 803; 829; 920; 1032; 1233; 1651; 2207; 3222; 3556; 3809
MaeII	A!CGT	9	776; 1444; 1456; 1499; 1609; 2500; 2687; 3468; 3601
MaeIII	!GTNAC	16	40; 423; 529; 661; 832; 923; 999; 1172; 1673; 1685; 2504; 2810; 3500; 3766; 3882; 3945

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MaiI	GA!TC	22	618; 658; 858; 909; 918; 1043; 2223; 2227; 2246; 2557; 2635; 2716; 2725; 2803; 3179; 3195; 3554; 3566; 3644; 3652; 3663; 3738
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1808; 2997
MbiI	GAG!CGG	2	1644; 3051
MboI	!GATC	22	616; 656; 856; 907; 916; 1041; 2221; 2225; 2244; 2555; 2633; 2714; 2723; 2801; 3177; 3193; 3552; 3564; 3642; 3650; 3661; 3736
MboII	GAAGANNNNNNNNN!	7	163; 561; 1640; 1868; 2745; 2955; 3574
MboII	!NNNNNNNTCTTC	5	289; 3035; 3202; 3402; 3645
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1134
MfiI	R!GATCY	11	616; 856; 907; 916; 2555; 2801; 3193; 3552; 3564; 3650; 3661
MhiI	GDGCH!C	10	867; 904; 1575; 2330; 2423; 2497; 2687; 2749; 3459; 3992
MisI	TGG!CCA	1	2466
MluI	A!CGCGT	1	1270
MluNI	TGG!CCA	1	2466
MlyI	GAGTCNNNNN!	3	455; 1436; 1868
MlyI	!NNNNNGACTC	4	845; 1443; 3049; 3926
Mly113I	GG!CGCC	1	2384
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	644; 1477
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	3	621; 3909; 4093
MniI	CCTCNNNNNNN!	8	305; 1103; 2167; 2985; 3191; 3505; 3875; 4199
MniI	!NNNNNGAGG	21	186; 225; 246; 279; 413; 429; 595; 637; 783; 1063; 1528; 1859; 2137; 2180; 2195; 2235; 2299; 2435; 2792; 3222; 4125
Mph1103I	ATGCA!T	4	176; 1956; 2028; 4359
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	847
MroNI	G!CCGGC	3	1601; 2884; 3167
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	1	2466
MseI	T!TAA	20	161; 218; 356; 386; 632; 668; 1085; 1146; 1267; 1288; 1299; 1311; 1322; 1339; 1437; 1708; 3527; 3541; 3546; 3598
MslI	CAYNN!NNRTG	3	136; 175; 2821
MspI	C!CGG	20	124; 848; 904; 914; 1602; 2289; 2366; 2388; 2416; 2547; 2637; 2704; 2885; 3160; 3168; 3260; 3734; 3924; 3950; 4097
Msp20I	TGG!CCA	1	2466
MspA1I	CMG!CKG	5	898; 1882; 2490; 3719; 3964
MspCI	C!TTAAG	1	631
MspJI	CNNRNNNNNNNNN!	218	24; 47; 71; 101; 120; 136; 183; 201; 242; 260; 273; 288; 331; 345; 373; 388; 412; 425; 443; 462; 475; 490; 538; 559; 584; 604; 632; 649; 666; 687; 706; 727; 748; 773; 789; 815; 828; 841; 860; 874; 887; 909; 926; 940; 954; 987; 1005; 1024; 1044; 1057; 1072; 1091; 1108; 1121; 1162; 1176; 1189; 1207; 1245; 1260; 1278; 1319; 1343; 1363; 1381; 1402; 1425; 1457; 1472; 1494; 1512; 1525; 1546; 1563; 1576; 1589; 1605; 1618; 1648; 1663; 1688; 1706; 1719; 1734; 1758; 1772; 1796; 1821; 1837; 1875; 1891; 1930; 1944; 1958; 1986; 2002; 2016; 2030; 2059; 2072; 2093; 2102; 2124; 2154; 2170; 2188; 2218; 2241; 2265; 2289; 2308; 2336; 2362; 2378; 2391; 2414; 2428; 2448; 2461; 2475; 2494; 2508; 2521; 2537; 2552; 2565; 2581; 2596; 2612; 2637; 2656; 2672; 2685; 2698; 2716; 2730; 2744; 2760; 2782; 2798; 2817; 2839; 2855; 2878; 2897; 2911; 2927; 2941; 2961; 2977; 2990; 3012; 3045; 3059; 3079; 3092; 3106; 3160; 3173; 3196; 3209; 3228; 3245; 3272; 3308; 3341; 3360; 3385; 3406; 3433; 3446; 3463; 3477; 3492; 3508; 3568; 3593; 3609; 3631; 3644; 3658; 3689; 3703; 3728; 3746; 3761; 3774; 3793; 3806; 3821; 3850; 3869; 3887; 3912; 3927; 3946; 3962; 3981; 3999; 4015; 4029; 4048; 4075; 4098; 4120; 4139; 4154; 4167; 4184; 4204; 4231; 4244; 4263; 4288; 4311; 4325; 4338; 4355

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	181	16; 35; 53; 80; 101; 121; 157; 175; 205; 223; 253; 290; 312; 330; 352; 386; 419; 436; 464; 487; 513; 545; 578; 605; 623; 640; 667; 701; 728; 761; 789; 811; 833; 854; 883; 900; 920; 939; 969; 993; 1014; 1036; 1065; 1094; 1136; 1219; 1257; 1281; 1304; 1333; 1377; 1399; 1431; 1467; 1484; 1505; 1542; 1562; 1579; 1596; 1631; 1649; 1667; 1684; 1708; 1730; 1757; 1785; 1811; 1849; 1870; 1887; 1905; 1928; 1949; 1977; 2000; 2021; 2039; 2060; 2077; 2100; 2124; 2144; 2162; 2184; 2215; 2237; 2263; 2282; 2299; 2327; 2346; 2365; 2383; 2401; 2422; 2444; 2468; 2501; 2521; 2539; 2560; 2586; 2613; 2630; 2647; 2664; 2690; 2712; 2734; 2752; 2772; 2791; 2813; 2851; 2871; 2895; 2915; 2935; 2962; 2986; 3019; 3038; 3066; 3088; 3117; 3145; 3170; 3189; 3208; 3229; 3246; 3263; 3294; 3321; 3341; 3364; 3384; 3421; 3438; 3457; 3483; 3503; 3542; 3569; 3588; 3606; 3643; 3661; 3702; 3720; 3746; 3763; 3795; 3824; 3852; 3873; 3896; 3915; 3936; 3954; 3971; 3989; 4015; 4036; 4056; 4076; 4094; 4115; 4141; 4158; 4177; 4196; 4225; 4244; 4262; 4281; 4299; 4317; 4340
MspR9I	CC!NGG	18	345; 463; 716; 904; 905; 1920; 1975; 1992; 2388; 2548; 2771; 3161; 3350; 3453; 3925; 4143; 4156; 4277
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1134
MvaI	CC!WGG	12	345; 463; 716; 1920; 1975; 1992; 2771; 3350; 3453; 4143; 4156; 4277
MvaI269I	GAATGCN!	1	1135
MvaI269I	G!CATTC	1	1228
MvnI	CG!CG	15	898; 1272; 1308; 1684; 1704; 1728; 1759; 2450; 2751; 3189; 3273; 3336; 3405; 3678; 4259
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	20	117; 1611; 1641; 1668; 1710; 1951; 2023; 2074; 2153; 2375; 2459; 2482; 2621; 2744; 2827; 3094; 3281; 3485; 3684; 4256
NaeI	GCC!GGC	3	1603; 2886; 3169
NarI	GG!CGCC	1	2384
NciI	CC!SGG	6	904; 905; 2388; 2548; 3161; 3925
NcoI	C!CATGG	3	134; 2113; 2816
NdeI	CA!TATG	1	176
NdeII	!GATC	22	616; 656; 856; 907; 916; 1041; 2221; 2225; 2244; 2555; 2633; 2714; 2723; 2801; 3177; 3193; 3552; 3564; 3642; 3650; 3661; 3736
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	3	1601; 2884; 3167
NheI	G!CTAGC	1	114
NlaIII	CATG!	20	138; 174; 192; 336; 416; 627; 790; 1814; 1954; 2026; 2117; 2258; 2603; 2789; 2820; 2846; 3202; 3586; 4306; 4357
NlaIV	GGN!NCC	18	258; 342; 894; 902; 909; 1539; 1560; 1572; 1763; 1924; 1996; 2385; 2420; 3268; 3347; 3392; 4235; 4274
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1216; 1531; 3123
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	1	4195
Nli3877I	CYCGR!G	2	864; 907
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2173; 2609
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2138
NmeDI	RCCGGYNNNNNNN!	5	135; 1613; 2715; 2896; 3179
NmeDI	!NNNNNNNNNNNNRCCGGY	5	110; 1588; 2690; 2871; 3154
NmuCI	!GTSAC	6	40; 832; 999; 1673; 2504; 2810
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2486
NsiI	ATGCA!T	4	176; 1956; 2028; 4359
NspI	RCATG!Y	5	174; 1954; 2026; 2789; 4306
NspV	TT!CGAA	2	874; 3066
OliI	CACNN!NNGTG	1	136
PabI	GTA!C	6	99; 226; 590; 895; 947; 2691
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	1954; 2026; 2789
PaeR7I	C!TCGAG	1	860

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PagI	T!CATGA	2	1810; 3582
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3349; 3452
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2205
PciI	A!CATGT	1	4302
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	2728; 2938
PcsI	WCGNNNN!NNNCGW	6	2678; 2755; 2998; 3072; 3465; 3983
PctI	GAATGCN!	1	1135
PctI	G!CATTC	1	1228
PdiI	GCC!GGC	3	1603; 2886; 3169
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	8	272; 371; 702; 2869; 3003; 3113; 3150; 4328
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2502
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	2	343; 3159
PhoI	GG!CC	19	628; 902; 1350; 1492; 2147; 2153; 2162; 2205; 2292; 2466; 2857; 2884; 3393; 3450; 3483; 3828; 4262; 4280; 4291
PinAI	A!CCGGT	1	123
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	2	253; 2765
PlaDI	!NNNNNNNNNNNNNNNNNNNCTGATG	2	2330; 2585
PleI	GAGTCNNNN!	3	454; 1435; 1867
PleI	!NNNNNGACTC	4	845; 1443; 3049; 3926
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1466
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3596
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3628
PpiI	!NNNNNNNGAACNNNNNCTC	1	1434
PpsI	GAGTCNNNN!	3	454; 1435; 1867
PpsI	!NNNNNGACTC	4	845; 1443; 3049; 3926
Ppu10I	A!TGCAT	4	172; 1952; 2024; 4355
Ppu21I	YAC!GTR	3	777; 1500; 2688
PpuMI	RG!GWCCY	2	292; 347
PscI	A!CATGT	1	4302
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	4	83; 961; 1167; 1372
Psp03I	GGWC!C	6	295; 350; 538; 735; 2903; 3348
Psp5II	RG!GWCCY	2	292; 347
Psp6I	!CCWGG	12	343; 461; 714; 1918; 1973; 1990; 2769; 3348; 3451; 4141; 4154; 4275
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	867
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	1	423
PspGI	!CCWGG	12	343; 461; 714; 1918; 1973; 1990; 2769; 3348; 3451; 4141; 4154; 4275
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	18	258; 342; 894; 902; 909; 1539; 1560; 1572; 1763; 1924; 1996; 2385; 2420; 3268; 3347; 3392; 4235; 4274
PspOMI	G!GGCCC	1	900
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	2	2114; 3113
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2516
PspPI	G!GNCC	12	292; 347; 535; 627; 732; 901; 1491; 2900; 3345; 3391; 3449; 3482
PspPPI	RG!GWCCY	2	292; 347
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	1937; 2009; 3515
PspPRI	!NNNNNNNNNNNNNCTGRGG	2	1850; 3045
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	3	295; 350; 3485
PstI	CTGCA!G	1	885
PstNI	CAGNN!CTG	2	3485; 3893
PsuI	R!GATCY	11	616; 856; 907; 916; 2555; 2801; 3193; 3552; 3564; 3650; 3661
PsyI	GACN!NNGTC	1	2502
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	1882; 2490
RcaI	T!CATGA	2	1810; 3582
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	2899
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNN!	1	1113
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	1	461
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	98; 225; 589; 894; 946; 2690
RsaNI	G!TAC	6	97; 224; 588; 893; 945; 2689
RseI	CAYNN!NNRTG	3	136; 175; 2821
RsrII	CG!GWCCG	1	2900
Rsr2I	CG!GWCCG	1	2900
SacI	GAGCT!C	1	867
SacII	CCGC!GG	1	899
SalI	G!TCGAC	1	886
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	2728; 2938
SaqAI	T!TAA	20	161; 218; 356; 386; 632; 668; 1085; 1146; 1267; 1288; 1299; 1311; 1322; 1339; 1437; 1708; 3527; 3541; 3546; 3598
SatI	GC!NGC	28	112; 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
Sau96I	G!GNCC	12	292; 347; 535; 627; 732; 901; 1491; 2900; 3345; 3391; 3449; 3482
Sau3AI	!GATC	22	616; 656; 856; 907; 916; 1041; 2221; 2225; 2244; 2555; 2633; 2714; 2723; 2801; 3177; 3193; 3552; 3564; 3642; 3650; 3661; 3736
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	455; 1436; 1868
SchI	!NNNNNGACTC	4	845; 1443; 3049; 3926
SciI	CTC!GAG	1	862
ScrFI	CC!NGG	18	345; 463; 716; 904; 905; 1920; 1975; 1992; 2388; 2548; 2771; 3161; 3350; 3453; 3925; 4143; 4156; 4277
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNN!	5	573; 1962; 2034; 2203; 4145
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	2	2539; 3024
SdeOSI	GACNNNRTGANNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNTCAYNNNNGTC	0	
SdeOSI	TCAYNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	10	867; 904; 1575; 2330; 2423; 2497; 2687; 2749; 3459; 3992
SelI	!CGCG	15	896; 1270; 1306; 1682; 1702; 1726; 1757; 2448; 2749; 3187; 3271; 3334; 3403; 3676; 4257
SetI	ASST!	63	47; 150; 294; 352; 408; 564; 573; 606; 615; 638; 648; 685; 779; 794; 808; 822; 830; 834; 867; 873; 925; 939; 1001; 1074; 1095; 1104; 1116; 1165; 1332; 1447; 1459; 1502; 1539; 1589; 1612; 1736; 1884; 1979; 2172; 2285; 2413; 2492; 2503; 2575; 2646; 2690; 2950; 3096; 3140; 3471; 3502; 3561; 3604; 3747; 3768; 3867; 4004; 4019; 4038; 4050; 4094; 4140; 4191

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SexAI	A!CCWGGT	1	1973
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	6	1200; 1963; 2035; 2683; 2747; 3022
SfaNI	!NNNNNNNNNGATGC	5	475; 2342; 2597; 2813; 4205
SfcI	C!TRYAG	4	881; 1719; 3846; 4037
SfiI	GGCCNNNN!NGGCC	1	2159
SfoI	GGC!GCC	1	2385
Sfr274I	C!TCGAG	1	860
Sfr303I	CCGC!GG	1	899
SfuI	TT!CGAA	2	874; 3066
SgeI	CNNGNNNNNNNNN!	169	6; 57; 120; 136; 183; 201; 264; 331; 345; 379; 412; 425; 447; 462; 475; 490; 539; 571; 604; 636; 649; 666; 706; 727; 754; 789; 815; 837; 860; 874; 909; 926; 946; 1009; 1044; 1091; 1120; 1162; 1245; 1283; 1319; 1403; 1425; 1457; 1494; 1512; 1531; 1546; 1588; 1605; 1622; 1657; 1671; 1688; 1710; 1734; 1758; 1823; 1837; 1875; 1891; 1931; 1944; 1963; 1986; 2003; 2016; 2035; 2065; 2086; 2103; 2126; 2161; 2188; 2219; 2241; 2267; 2289; 2308; 2336; 2372; 2391; 2414; 2428; 2448; 2461; 2475; 2494; 2508; 2527; 2559; 2573; 2586; 2612; 2643; 2656; 2673; 2690; 2704; 2721; 2739; 2754; 2782; 2798; 2817; 2839; 2855; 2878; 2897; 2922; 2941; 2961; 2988; 3012; 3045; 3064; 3092; 3106; 3172; 3196; 3211; 3234; 3255; 3272; 3320; 3347; 3361; 3390; 3414; 3447; 3464; 3484; 3497; 3510; 3568; 3595; 3614; 3644; 3669; 3689; 3703; 3728; 3746; 3783; 3821; 3850; 3878; 3892; 3912; 3927; 3948; 3962; 3981; 3999; 4015; 4055; 4075; 4102; 4120; 4141; 4154; 4167; 4184; 4208; 4231; 4263; 4288; 4315; 4337
SgeI	!NNNNNNNNNNNNCNG	148	31; 94; 121; 157; 175; 238; 305; 330; 353; 386; 421; 448; 513; 545; 578; 610; 640; 680; 701; 728; 763; 789; 811; 834; 854; 883; 900; 920; 983; 1018; 1065; 1094; 1136; 1219; 1257; 1293; 1377; 1399; 1431; 1468; 1486; 1505; 1562; 1579; 1596; 1631; 1649; 1669; 1689; 1708; 1732; 1797; 1849; 1905; 1937; 1960; 1977; 2009; 2039; 2060; 2077; 2100; 2135; 2162; 2193; 2215; 2241; 2263; 2282; 2310; 2346; 2365; 2388; 2409; 2427; 2444; 2468; 2501; 2533; 2560; 2586; 2617; 2647; 2664; 2690; 2713; 2734; 2756; 2776; 2796; 2813; 2852; 2871; 2896; 2915; 2935; 2962; 2986; 3019; 3038; 3066; 3088; 3146; 3170; 3189; 3208; 3229; 3246; 3294; 3321; 3341; 3364; 3388; 3421; 3438; 3458; 3484; 3542; 3569; 3588; 3618; 3643; 3663; 3702; 3720; 3757; 3795; 3824; 3852; 3873; 3901; 3922; 3955; 3973; 4029; 4049; 4076; 4094; 4115; 4141; 4158; 4182; 4205; 4237; 4262; 4289; 4311; 4340
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	899
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1531; 3318; 4111
SimI	!GACCC	3	2812; 3380; 3628
SinI	G!GWCC	6	292; 347; 535; 732; 2900; 3345
SlaI	C!TCGAG	1	860
SmaI	CCC!GGG	1	905
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	3	136; 175; 2821
SmiI	C!TYRAG	7	631; 860; 866; 2775; 3657; 3934; 4196
SmoI	C!TYRAG	7	631; 860; 866; 2775; 3657; 3934; 4196
SmuI	CCCGCNNNN!	5	1706; 2061; 2082; 3278; 3410
SmuI	!NNNNNNNGCGGG	6	891; 1637; 2507; 3044; 3182; 3329
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	1954; 2026; 2789
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	15	60; 506; 519; 838; 876; 980; 1134; 1198; 1276; 1302; 1313; 1960; 2032; 2124; 3542
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	2	292; 347
SseBI	AGG!CCT	1	2205

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	C!CGC	25	896; 1699; 1702; 1716; 1806; 2054; 2066; 2075; 2087; 2097; 2108; 2154; 2293; 2356; 2858; 2903; 2969; 2995; 3120; 3123; 3271; 3403; 3710; 3854; 4350
SsiI	G!CGG	21	898; 1644; 1671; 1759; 1869; 2450; 2514; 2615; 2618; 2898; 2953; 3051; 3189; 3336; 3476; 3719; 3964; 4085; 4104; 4231; 4259
SspI	AAT!ATT	2	1292; 1845
SspDI	G!GCGCC	1	2383
SspD5I	GGTGANNNNNNNN!	4	150; 247; 3455; 3571
SspD5I	!NNNNNNNNNTCACC	3	201; 1500; 2561
SstI	GAGCT!C	1	867
SstII	CCGC!GG	1	899
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	13	910; 1583; 1705; 2060; 2081; 2394; 2797; 2936; 3007; 3277; 3409; 3639; 4077
Sth132I	!NNNNNNNNCCGGG	16	890; 1584; 1636; 1737; 2464; 2506; 2539; 3043; 3152; 3181; 3328; 3432; 3463; 3916; 3960; 4168
Sth302II	CC!GG	20	125; 849; 905; 915; 1603; 2290; 2367; 2389; 2417; 2548; 2638; 2705; 2886; 3161; 3169; 3261; 3735; 3925; 3951; 4098
StrI	C!TCGAG	1	860
StsI	GGATGNNNNNNNNNN!	5	498; 2252; 2709; 2734; 3188
StsI	!NNNNNNNNNNNNNNNNNNNNCATCC	1	2056
StuI	AGG!CCT	1	2205
StyI	C!CWGGG	5	134; 2113; 2206; 2816; 3221
StyD4I	!CCNGG	18	343; 461; 714; 902; 903; 1918; 1973; 1990; 2386; 2546; 2769; 3159; 3348; 3451; 3923; 4141; 4154; 4275
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	12	201; 392; 442; 892; 1475; 2764; 2880; 2988; 3311; 3802; 4272; 4343
TaiI	ACGT!	9	779; 1447; 1459; 1502; 1612; 2503; 2690; 3471; 3604
TaqI	T!CGA	14	861; 874; 887; 1533; 2224; 2497; 2653; 2677; 2713; 2875; 3066; 3111; 3366; 4204
TaqII	GACCGANNNNNNNNNNNN!	3	1404; 2421; 3089
TaqII	!NNNNNNNNNTCGGTC	1	3333
TaqII	CACCCANNNNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	2	2288; 2880
TasI	!AATT	15	60; 506; 519; 838; 876; 980; 1134; 1198; 1276; 1302; 1313; 1960; 2032; 2124; 3542
TatI	W!GTACW	3	96; 223; 944
TauI	GCSG!C	15	1704; 1718; 2156; 2295; 2358; 2453; 2618; 2621; 2860; 2956; 2997; 3125; 3479; 4107; 4262
TfiI	G!AWTC	8	272; 371; 702; 2869; 3003; 3113; 3150; 4328
TliI	C!TCGAG	1	860
TruII	T!TAA	20	161; 218; 356; 386; 632; 668; 1085; 1146; 1267; 1288; 1299; 1311; 1322; 1339; 1437; 1708; 3527; 3541; 3546; 3598
Tru9I	T!TAA	20	161; 218; 356; 386; 632; 668; 1085; 1146; 1267; 1288; 1299; 1311; 1322; 1339; 1437; 1708; 3527; 3541; 3546; 3598
TscAI	CASTGNN!	5	1230; 2513; 3623; 3894; 3907
TseI	G!CWGC	14	111; 1160; 1679; 2344; 2445; 2487; 2528; 2621; 3008; 3461; 3687; 3893; 3896; 3961
TsoI	TARCCANNNNNNNNNNNN!	3	373; 1356; 1703
TsoI	!NNNNNNNNNTGGYTA	2	1161; 2913
Tsp45I	!GTSAC	6	40; 832; 999; 1673; 2504; 2810
Tsp509I	!AATT	15	60; 506; 519; 838; 876; 980; 1134; 1198; 1276; 1302; 1313; 1960; 2032; 2124; 3542
TspDTI	ATGAANNNNNNNNNNNN!	4	193; 1142; 2443; 3147
TspDTI	!NNNNNNNNNTTCAT	6	321; 342; 461; 2861; 3317; 3524
TspEI	!AATT	15	60; 506; 519; 838; 876; 980; 1134; 1198; 1276; 1302; 1313; 1960; 2032; 2124; 3542
TspGWI	ACGGANNNNNNNNNNNN!	3	548; 614; 3259
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	903
TspRI	CASTGNN!	5	1230; 2513; 3623; 3894; 3907
TstI	CACNNNNNNNTCCNNNNNNNNNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNNGTG	0	
TstI	GGANNNNNNNGTGNNNNNNNNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TstI	!NNNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2502
Tth111II	CAARCANNNNNNNNNN!	1	3711
Tth111II	!NNNNNNNNNTGYTTG	3	2819; 3679; 3718
UnbI	!GGNCC	12	291; 346; 534; 626; 731; 900; 1490; 2899; 3344; 3390; 3448; 3481
Van9II	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	1	631
VneI	G!TGCAC	1	3988
VpaK11AI	!GGWCC	6	291; 346; 534; 731; 2899; 3344
VpaK11BI	G!GWCC	6	292; 347; 535; 732; 2900; 3345
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	5	519; 876; 1198; 1302; 1313
XbaI	T!CTAGA	0	
XceI	RCATG!Y	5	174; 1954; 2026; 2789; 4306
XcmI	CCANNNN!NNNTGG	0	
XhoI	C!TCGAG	1	860
XhoII	R!GATCY	11	616; 856; 907; 916; 2555; 2801; 3193; 3552; 3564; 3650; 3661
XmaI	C!CCGGG	1	903
XmaJI	C!CTAGG	2	2206; 3221
XmiI	GT!MKAC	1	887
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	16	115; 319; 527; 559; 637; 742; 803; 829; 920; 1032; 1233; 1651; 2207; 3222; 3556; 3809
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	4	176; 1956; 2028; 4359