

Gateway® TurboGFP-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; 937; 1143; 1348
AarI	CACCTGCNNNN!	1	587
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1431; 2387; 4176
AatI	AGG!CCT	1	2181
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	863
AccII	CG!CG	18	482; 638; 743; 874; 1248; 1284; 1660; 1680; 1704; 1735; 2426; 2727; 3165; 3249; 3312; 3381; 3654; 4235
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2462
Acc36I	ACCTGCNNNN!	4	314; 587; 2628; 3078
Acc36I	!NNNNNNNNGCAGGT	1	2247
Acc65I	G!GTACC	1	868
AccB1I	G!GYRCC	9	190; 235; 283; 346; 508; 868; 1513; 2359; 2394
AccB7I	CCANNNN!NTGG	1	321
AccBSI	CCG!CTC	2	1784; 2973
AccBSI	GAG!CGG	3	152; 1620; 3027
AceIII	CAGCTCNNNNNNN!	2	666; 1316
AceIII	!NNNNNNNNNNGAGCTG	2	202; 757
AcI	C!CGC	35	161; 180; 252; 414; 465; 480; 555; 621; 738; 741; 872; 1675; 1678; 1692; 1782; 2030; 2042; 2051; 2063; 2073; 2084; 2130; 2269; 2332; 2834; 2879; 2945; 2971; 3096; 3099; 3247; 3379; 3686; 3830; 4326
AcI	G!CGG	28	152; 224; 227; 359; 398; 437; 644; 874; 1620; 1647; 1735; 1845; 2426; 2490; 2591; 2594; 2874; 2929; 3027; 3165; 3312; 3452; 3695; 3940; 4061; 4080; 4207; 4235
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	10	761; 891; 900; 2228; 2539; 2785; 3177; 3536; 3634; 3720
AcIWI	!NNNNNGATCC	5	878; 2604; 3148; 3535; 3632
AcoI	Y!GGCCR	5	477; 2266; 2440; 2831; 2858
AcsI	R!AATY	4	852; 1174; 1278; 1289
AcuI	CTGAAGNNNNNNNNNNNNNNN!	2	2506; 2938
AcuI	!NNNNNNNNNNNNNCTTCAG	4	279; 441; 612; 3736
AcvI	CAC!GTG	2	318; 450
AcyI	GR!CGYC	4	284; 2360; 3062; 3141
AdeI	CACNNN!GTG	1	1476
AfaI	GT!AC	6	98; 427; 787; 870; 922; 2666
AfeI	AGC!GCT	1	119
AfiI	CCNNNNN!NNGG	20	246; 321; 471; 744; 896; 1372; 1698; 2090; 2341; 2885; 3166; 3198; 3330; 3365; 3415; 3447; 3800; 4079; 4245; 4263
AfII	C!TTAAG	0	
AfIII	A!CRYGT	2	1246; 4278
AgeI	A!CCGGT	1	123
AgsI	TTS!AA	8	498; 684; 801; 1771; 1815; 1825; 2238; 3814
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	9	1894; 1949; 1966; 2745; 3324; 3427; 4117; 4130; 4251
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	1934; 2006
AlfI	!NNNNNNNNNNNGCANNNNNNTGC	2	1900; 1972
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1442
AloI	!NNNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1410
AluI	AG!CT	20	216; 455; 461; 614; 656; 771; 841; 847; 913; 1139; 1306; 1563; 1858; 2146; 2466; 2924; 3721; 3978; 4024; 4114
AluBI	AG!CT	20	216; 455; 461; 614; 656; 771; 841; 847; 913; 1139; 1306; 1563; 1858; 2146; 2466; 2924; 3721; 3978; 4024; 4114
AlwI	GGATCNNNN!	10	761; 891; 900; 2228; 2539; 2785; 3177; 3536; 3634; 3720
AlwI	!NNNNNGATCC	5	878; 2604; 3148; 3535; 3632
Alw21I	GWGCW!C	6	277; 578; 843; 2473; 2663; 3968
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	4	1784; 2202; 3221; 3349
Alw44I	G!TGCAC	1	3964
AlwNI	CAGNNN!CTG	2	3461; 3869
Ama87I	C!YCGRG	4	241; 520; 836; 879
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	119
ApaI	GGGCC!C	2	724; 880
ApaBI	GCANNNNN!TGC	3	1928; 2000; 3462
ApaLI	G!TGCAC	1	3964
ApeKI	G!CWGC	17	111; 444; 557; 611; 1136; 1655; 2320; 2421; 2463; 2504; 2597; 2984; 3437; 3663; 3869; 3872; 3937
ApoI	R!AATTY	4	852; 1174; 1278; 1289
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2875
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	2669; 3322; 4160
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	2759
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	773; 2188
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	2	498; 2930
ArsI	GACNNNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	26	171; 486; 534; 549; 601; 754; 833; 884; 893; 1018; 2198; 2202; 2221; 2532; 2610; 2691; 2700; 2778; 3154; 3170; 3529; 3541; 3619; 3627; 3638; 3713
AsiGI	A!CCGGT	1	123
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2478
Asp700I	GAANN!NNTTC	1	373
Asp718I	G!GTACC	1	868
AspA2I	C!CTAGG	2	2182; 3197
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	24	120; 286; 638; 691; 1626; 1634; 1660; 1682; 1691; 1704; 1735; 2354; 2362; 2426; 2463; 2729; 2989; 3165; 3251; 3654; 3763; 3937; 4037; 4104
AspS9I	G!GNCC	11	249; 720; 721; 876; 877; 1467; 2876; 3321; 3367; 3425; 3458
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	850; 3042
AsuC2I	CC!SGG	7	808; 880; 881; 2364; 2524; 3137; 3901
AsuHPI	GGTGANNNNNNNNN!	4	513; 835; 3431; 3547
AsuHPI	!NNNNNNNTCACC	5	177; 531; 609; 1477; 2538
AsuNHI	G!CTAGC	1	114
AvaI	C!YCGRG	4	241; 520; 836; 879
AvaII	G!GWCC	2	2876; 3321
AviII	TGC!GCA	1	2462
AvrII	C!CTAGG	2	2182; 3197
AxyI	CC!TNAGG	2	1840; 3472
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	7	238; 511; 724; 880; 2306; 2399; 3968
BalI	TGG!CCA	1	2442
BamHI	G!GATCC	1	883
BanI	G!GYRCC	9	190; 235; 283; 346; 508; 868; 1513; 2359; 2394
BanII	GRGCY!C	6	724; 843; 880; 1551; 2725; 3435
BanIII	AT!CGAT	1	2200
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	321
BauI	C!ACGAG	2	3078; 4105
BauI	C!TCGTG	1	2952
BbeI	GGCGC!C	2	287; 2363
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	2	318; 450
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	1930; 2002; 2765
BbvI	GCAGCNNNNNNNN!	8	569; 623; 1148; 2433; 2475; 2996; 3449; 3949
BbvI	!NNNNNNNNNNNGCTGC	8	98; 431; 1642; 2307; 2491; 2584; 3650; 3856
Bbv12I	GWGCW!C	6	277; 578; 843; 2473; 2663; 3968
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	394; 700; 1490; 2054; 2580; 3082
BccI	!NNNNNGATGG	6	315; 498; 601; 1458; 2238; 2666
BceAI	ACGGCNNNNNNNNNN!	7	216; 345; 411; 450; 657; 2786; 3273
BceAI	!NNNNNNNNNNNGCCGT	3	1501; 2319; 3778
Bcefl	ACGGCNNNNNNNNNN!	7	216; 345; 411; 450; 657; 2786; 3273
Bcefl	!NNNNNNNNNNNGCCGT	3	1502; 2320; 3779
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	1789; 2579; 4080
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1017
BcnI	CC!SGG	7	808; 880; 881; 2364; 2524; 3137; 3901
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	1040; 4213
BdaI	!NNNNNNNNNNTGANNNNNNNTCA	2	1006; 4179
BfaI	C!TAG	9	115; 896; 1008; 1209; 1627; 2183; 3198; 3532; 3785
BfiI	ACTGGGNNNNN!	1	2309
BfiI	!NNNNCCCACT	1	2061
BfmI	C!TRYAG	6	651; 709; 857; 1695; 3822; 4013
BfoI	RGCGC!Y	7	121; 287; 692; 1627; 1635; 2363; 4038
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNN!	3	1789; 2579; 4080
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	314; 587; 2628; 3078
BfuAI	!NNNNNNNNNGCAGGT	1	2247
BfuCI	!GATC	26	170; 485; 533; 548; 600; 753; 832; 883; 892; 1017; 2197; 2201; 2220; 2531; 2609; 2690; 2699; 2777; 3153; 3169; 3528; 3540; 3618; 3626; 3637; 3712
BglI	GCCNNNN!NGGC	1	2135
BglII	A!GATCT	1	832
BisI	GC!NGC	41	112; 153; 180; 225; 252; 360; 399; 438; 445; 480; 558; 612; 645; 741; 1137; 1656; 1678; 1692; 2130; 2269; 2321; 2332; 2422; 2427; 2464; 2505; 2592; 2598; 2834; 2930; 2971; 2985; 3099; 3438; 3453; 3664; 3870; 3873; 3938; 4081; 4236
BlnI	C!CTAGG	2	2182; 3197

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BlpI	GC!TNAGC	1	310
BlsI	GCN!GC	41	113; 154; 181; 226; 253; 361; 400; 439; 446; 481; 559; 613; 646; 742; 1138; 1657; 1679; 1693; 2131; 2270; 2322; 2333; 2423; 2428; 2465; 2506; 2593; 2599; 2835; 2931; 2972; 2986; 3100; 3439; 3454; 3665; 3871; 3874; 3939; 4082; 4237
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	2876; 3321
Bme1390I	CC!NGG	16	808; 880; 881; 1896; 1951; 1968; 2364; 2524; 2747; 3137; 3326; 3429; 3901; 4119; 4132; 4253
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	241; 520; 836; 879
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	250; 721; 722; 877; 878; 1468; 2877; 3322; 3368; 3426; 3459
BmiI	GGN!NCC	23	192; 237; 285; 348; 510; 721; 722; 870; 878; 885; 1515; 1536; 1548; 1739; 1900; 1972; 2361; 2396; 3244; 3323; 3368; 4211; 4250
BmrI	ACTGGGNNNNN!	1	2309
BmrI	!NNNNCCCAGT	1	2061
BmrFI	CC!NGG	16	808; 880; 881; 1896; 1951; 1968; 2364; 2524; 2747; 3137; 3326; 3429; 3901; 4119; 4132; 4253
BmsI	GCATCNNNNN!	10	191; 425; 713; 785; 1176; 1939; 2011; 2659; 2723; 2998
BmsI	!NNNNNNNNNGATGC	5	801; 2318; 2573; 2789; 4181
BmtI	GCTAG!C	1	118
BmuI	ACTGGGNNNNN!	1	2309
BmuI	!NNNNCCCAGT	1	2061
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2149; 3048
BpI	!NNNNNNNGAGNNNNNCTC	2	2117; 3016
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3200
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3143
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	850; 3042
Bpu1102I	GC!TNAGC	1	310
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	3654; 4193
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	827; 2736; 3895
BpuMI	CC!SGG	7	808; 880; 881; 2364; 2524; 3137; 3901
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3349
Bsa29I	AT!CGAT	1	2200
BsaAI	YAC!GTR	4	318; 450; 1476; 2664
BsaBI	GATNN!NNATC	3	599; 1022; 2219
BsaHI	GR!CGYC	4	284; 2360; 3062; 3141
BsaJI	C!CNNGG	23	134; 164; 521; 569; 587; 659; 806; 872; 879; 1894; 1966; 2089; 2124; 2133; 2182; 2523; 2792; 3197; 3324; 3325; 3427; 3428; 4118
BsaMI	GAATGCN!	1	1111
BsaMI	G!CATTC	1	1204
BsaWI	W!CCGGW	6	123; 889; 2391; 3235; 3925; 4072
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	670; 1440
BsaXI	!NNNNNNNGGAGNNNNNNGT	1	160
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	190
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	640; 1410
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	2	434; 788
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	2	1361; 3268
Bsc4I	CCNNNNN!NNGG	20	246; 321; 471; 744; 896; 1372; 1698; 2090; 2341; 2885; 3166; 3198; 3330; 3365; 3415; 3447; 3800; 4079; 4245; 4263
BscAI	GCATCNNNN!	10	190; 424; 712; 784; 1175; 1938; 2010; 2658; 2722; 2997
BscAI	!NNNNNGATGC	5	804; 2321; 2576; 2792; 4184
Bse1I	ACTGGN!	3	2304; 2505; 3751

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BseI	C!CAGT	4	1389; 2067; 3863; 3876
Bse8I	GATNN!NNATC	3	599; 1022; 2219
Bse21I	CC!TNAGG	2	1840; 3472
Bse118I	R!CCGGY	9	123; 187; 475; 511; 820; 1577; 2679; 2860; 3143
BseAI	T!CCGGA	0	
BseBI	CC!WGG	9	1896; 1951; 1968; 2747; 3326; 3429; 4119; 4132; 4253
BseCI	AT!CGAT	1	2200
BseDI	C!CNNGG	23	134; 164; 521; 569; 587; 659; 806; 872; 879; 1894; 1966; 2089; 2124; 2133; 2182; 2523; 2792; 3197; 3324; 3325; 3427; 3428; 4118
Bse3DI	GCAATGNN!	2	77; 2593
Bse3DI	!CATTGC	1	945
BseGI	GGATGNN!	6	612; 816; 2220; 2677; 2702; 3156
BseGI	!CATCC	4	551; 692; 704; 2046
BseJI	GATNN!NNATC	3	599; 1022; 2219
BseLI	CCNNNNN!NNGG	20	246; 321; 471; 744; 896; 1372; 1698; 2090; 2341; 2885; 3166; 3198; 3330; 3365; 3415; 3447; 3800; 4079; 4245; 4263
BseMI	GCAATGNN!	2	77; 2593
BseMI	!CATTGC	1	945
BseMII	CTCAGNNNNNNNNNN!	1	3486
BseMII	!NNNNNNNNCTGAG	6	301; 1831; 2133; 3014; 3586; 3995
BseNI	ACTGGN!	3	2304; 2505; 3751
BseNI	C!CAGT	4	1389; 2067; 3863; 3876
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNN!	2	763; 2178
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	7	238; 511; 724; 880; 2306; 2399; 3968
BseXI	GCAGCNNNNNNNN!	8	569; 623; 1148; 2433; 2475; 2996; 3449; 3949
BseXI	!NNNNNNNNNNNGCTGC	8	98; 431; 1642; 2307; 2491; 2584; 3650; 3856
BseX3I	C!GGCCG	2	477; 2266
BseYI	C!CCAGC	6	355; 700; 909; 1903; 1975; 3974
BseYI	G!CTGGG	2	771; 2864
BsgI	GTGCAGNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	3	364; 430; 565
Bsh1236I	CG!CG	18	482; 638; 743; 874; 1248; 1284; 1660; 1680; 1704; 1735; 2426; 2727; 3165; 3249; 3312; 3381; 3654; 4235
Bsh1285I	CGRY!CG	4	128; 480; 2269; 3944
BshFI	GG!CC	23	155; 251; 475; 479; 722; 878; 1326; 1468; 2123; 2129; 2138; 2181; 2268; 2442; 2833; 2860; 3369; 3426; 3459; 3804; 4238; 4256; 4267
BshNI	G!GYRCC	9	190; 235; 283; 346; 508; 868; 1513; 2359; 2394
BshTI	A!CCGGT	1	123
BshVI	AT!CGAT	1	2200
BsiEI	CGRY!CG	4	128; 480; 2269; 3944
BsiHKAI	GWGCW!C	6	277; 578; 843; 2473; 2663; 3968
BsiHKCI	C!YCGRG	4	241; 520; 836; 879
BsiSI	C!CGG	24	124; 188; 476; 512; 808; 821; 880; 890; 1578; 2265; 2342; 2364; 2392; 2523; 2613; 2680; 2861; 3136; 3144; 3236; 3710; 3900; 3926; 4073
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	20	246; 321; 471; 744; 896; 1372; 1698; 2090; 2341; 2885; 3166; 3198; 3330; 3365; 3415; 3447; 3800; 4079; 4245; 4263
BsIFI	GGGACNNNNNNNNNN!	3	2511; 3043; 3152
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1876; 1948; 2012; 3307
BsmI	GAATGCN!	1	1111
BsmI	G!CATTC	1	1204
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	4	1784; 2202; 3221; 3349
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2511; 3043; 3152
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1876; 1948; 2012; 3307
BsnI	GG!CC	23	155; 251; 475; 479; 722; 878; 1326; 1468; 2123; 2129; 2138; 2181; 2268; 2442; 2833; 2860; 3369; 3426; 3459; 3804; 4238; 4256; 4267
Bso31I	GGTCTCN!	0	

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Bso31I	!NNNNNGAGACC	1	3349
BsoBI	C!YCGRG	4	241; 520; 836; 879
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	5	134; 164; 587; 2089; 2792
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	3163
Bsp24I	!NNNNNNCCANNNNNNGTC	2	3584; 3762
Bsp24I	CCANNNNNNGTCNNNNNNNNNN!	2	3616; 3794
Bsp24I	!NNNNNNNGACNNNNNTGG	1	3131
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	850; 3042
Bsp120I	G!GGCCC	2	720; 876
Bsp143I	!GATC	26	170; 485; 533; 548; 600; 753; 832; 883; 892; 1017; 2197; 2201; 2220; 2531; 2609; 2690; 2699; 2777; 3153; 3169; 3528; 3540; 3618; 3626; 3637; 3712
Bsp1286I	GDGCH!C	15	238; 277; 511; 578; 724; 843; 880; 1551; 2306; 2399; 2473; 2663; 2725; 3435; 3968
Bsp1407I	T!GTACA	2	96; 920
Bsp1720I	GC!TNAGC	1	310
BspACI	C!CGC	35	161; 180; 252; 414; 465; 480; 555; 621; 738; 741; 872; 1675; 1678; 1692; 1782; 2030; 2042; 2051; 2063; 2073; 2084; 2130; 2269; 2332; 2834; 2879; 2945; 2971; 3096; 3099; 3247; 3379; 3686; 3830; 4326
BspACI	G!CGG	28	152; 224; 227; 359; 398; 437; 644; 874; 1620; 1647; 1735; 1845; 2426; 2490; 2591; 2594; 2874; 2929; 3027; 3165; 3312; 3452; 3695; 3940; 4061; 4080; 4207; 4235
BspCNI	CTCAGNNNNNNNN!	1	3485
BspCNI	!NNNNNNCTGAG	6	302; 1832; 2134; 3015; 3587; 3996
BspDI	AT!CGAT	1	2200
BspD6I	GACTCNNNN!	3	1433; 3039; 3916
BspD6I	!NNNNNGAGTC	2	1396; 1828
BspEI	T!CCGGA	0	
BspFNI	CG!CG	18	482; 638; 743; 874; 1248; 1284; 1660; 1680; 1704; 1735; 2426; 2727; 3165; 3249; 3312; 3381; 3654; 4235
BspHI	T!CATGA	2	1786; 3558
BspLI	GGN!NCC	23	192; 237; 285; 348; 510; 721; 722; 870; 878; 885; 1515; 1536; 1548; 1739; 1900; 1972; 2361; 2396; 3244; 3323; 3368; 4211; 4250
BspMI	ACCTGCNNNN!	4	314; 587; 2628; 3078
BspMI	!NNNNNNNGCAGGT	1	2247
BspOI	GCTAG!C	1	118
BspPI	GGATCNNNN!	10	761; 891; 900; 2228; 2539; 2785; 3177; 3536; 3634; 3720
BspPI	!NNNNNGATCC	5	878; 2604; 3148; 3535; 3632
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	265; 2704; 2914
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	850; 3042
BspT107I	G!GYRCC	9	190; 235; 283; 346; 508; 868; 1513; 2359; 2394
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3349
BsrI	ACTGGN!	3	2304; 2505; 3751
BsrI	C!CAGT	4	1389; 2067; 3863; 3876
BsrBI	CCG!CTC	2	1784; 2973
BsrBI	GAG!CGG	3	152; 1620; 3027
BsrDI	GCAATGNN!	2	77; 2593
BsrDI	!CATTGC	1	945
BsrFI	R!CCGGY	9	123; 187; 475; 511; 820; 1577; 2679; 2860; 3143
BsrGI	T!GTACA	2	96; 920
BsrSI	ACTGGN!	3	2304; 2505; 3751
BsrSI	C!CAGT	4	1389; 2067; 3863; 3876
BssAI	R!CCGGY	9	123; 187; 475; 511; 820; 1577; 2679; 2860; 3143
BssECI	C!CNNGG	23	134; 164; 521; 569; 587; 659; 806; 872; 879; 1894; 1966; 2089; 2124; 2133; 2182; 2523; 2792; 3197; 3324; 3325; 3427; 3428; 4118
BssHII	G!CGCGC	0	
BssKI	!CCNGG	16	806; 878; 879; 1894; 1949; 1966; 2362; 2522; 2745; 3135; 3324; 3427; 3899; 4117; 4130; 4251

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssMI	!GATC	26	170; 485; 533; 548; 600; 753; 832; 883; 892; 1017; 2197; 2201; 2220; 2531; 2609; 2690; 2699; 2777; 3153; 3169; 3528; 3540; 3618; 3626; 3637; 3712
BssNI	GR!CGYC	4	284; 2360; 3062; 3141
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3078; 4105
BssSI	C!TCGTG	1	2952
BssT1I	C!CWWGG	7	134; 164; 587; 2089; 2182; 2792; 3197
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	4	265; 1827; 2704; 2914
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	4	284; 2360; 3062; 3141
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	1927; 1999; 3461
BstAUI	T!GTACA	2	96; 920
BstBI	TT!CGAA	2	850; 3042
Bst2BI	C!ACGAG	2	3078; 4105
Bst2BI	C!TCGTG	1	2952
BstBAI	YAC!GTR	4	318; 450; 1476; 2664
Bst4CI	ACN!GT	10	570; 868; 1451; 2740; 2856; 2964; 3287; 3778; 4248; 4319
BstC8I	GCN!NGC	34	109; 116; 157; 161; 383; 442; 477; 634; 794; 876; 1579; 1622; 1636; 1909; 1928; 1981; 2000; 2254; 2440; 2659; 2725; 2731; 2763; 2804; 2808; 2862; 3145; 3332; 3379; 3435; 3457; 3668; 4228; 4265
BstDEI	C!TNAG	7	310; 1840; 2142; 3023; 3472; 3595; 4004
BstDSI	C!CRYGG	8	134; 164; 569; 587; 659; 872; 2089; 2792
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	6	612; 816; 2220; 2677; 2702; 3156
BstF5I	!CATCC	4	551; 692; 704; 2046
BstFNI	CG!CG	18	482; 638; 743; 874; 1248; 1284; 1660; 1680; 1704; 1735; 2426; 2727; 3165; 3249; 3312; 3381; 3654; 4235
BstH2I	RGCGC!Y	7	121; 287; 692; 1627; 1635; 2363; 4038
BstHHI	GCG!C	24	120; 286; 638; 691; 1626; 1634; 1660; 1682; 1691; 1704; 1735; 2354; 2362; 2426; 2463; 2729; 2989; 3165; 3251; 3654; 3763; 3937; 4037; 4104
BstKTI	GAT!C	26	173; 488; 536; 551; 603; 756; 835; 886; 895; 1020; 2200; 2204; 2223; 2534; 2612; 2693; 2702; 2780; 3156; 3172; 3531; 3543; 3621; 3629; 3640; 3715
BstMAI	GTCTCN!	0	
BstMAI	!NNNNGAGAC	4	1784; 2202; 3221; 3349
BstMBI	!GATC	26	170; 485; 533; 548; 600; 753; 832; 883; 892; 1017; 2197; 2201; 2220; 2531; 2609; 2690; 2699; 2777; 3153; 3169; 3528; 3540; 3618; 3626; 3637; 3712
BstMCI	CGRY!CG	4	128; 480; 2269; 3944
BstMWI	GCNNNNN!NNGC	27	117; 149; 188; 233; 281; 488; 620; 644; 1587; 1617; 1644; 1686; 1927; 1999; 2050; 2129; 2351; 2435; 2458; 2597; 2720; 2803; 3070; 3257; 3461; 3660; 4232
BstNI	CC!WGG	9	1896; 1951; 1968; 2747; 3326; 3429; 4119; 4132; 4253
BstNSI	RCATG!Y	5	678; 1930; 2002; 2765; 4282
BstOI	CC!WGG	9	1896; 1951; 1968; 2747; 3326; 3429; 4119; 4132; 4253
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	16	806; 878; 879; 1894; 1949; 1966; 2362; 2522; 2745; 3135; 3324; 3427; 3899; 4117; 4130; 4251
BstSFI	C!TRYAG	6	651; 709; 857; 1695; 3822; 4013
BstSLI	GKGC!C	7	238; 511; 724; 880; 2306; 2399; 3968
BstSNI	TAC!GTA	0	
BstUI	CG!CG	18	482; 638; 743; 874; 1248; 1284; 1660; 1680; 1704; 1735; 2426; 2727; 3165; 3249; 3312; 3381; 3654; 4235
Bst2UI	CC!WGG	9	1896; 1951; 1968; 2747; 3326; 3429; 4119; 4132; 4253
BstV1I	GCAGCNNNNNNN!	8	569; 623; 1148; 2433; 2475; 2996; 3449; 3949
BstV1I	!NNNNNNNNNNNGCTGC	8	98; 431; 1642; 2307; 2491; 2584; 3650; 3856
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstX2I	R!GATCY	10	832; 883; 892; 2531; 2777; 3169; 3528; 3540; 3626; 3637
BstYI	R!GATCY	10	832; 883; 892; 2531; 2777; 3169; 3528; 3540; 3626; 3637
BstZI	C!GGCCG	2	477; 2266
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	1789; 2579; 4080
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2200
Bsu36I	CC!TNAGG	2	1840; 3472
BsuRI	GG!CC	23	155; 251; 475; 479; 722; 878; 1326; 1468; 2123; 2129; 2138; 2181; 2268; 2442; 2833; 2860; 3369; 3426; 3459; 3804; 4238; 4256; 4267
BsuTUI	AT!CGAT	1	2200
BtgI	C!CRYGG	8	134; 164; 569; 587; 659; 872; 2089; 2792
BtgZI	GCGATGNNNNNNNNNN!	2	1477; 2812
BtgZI	!NNNNNNNNNNNNNNNNCATCGC	2	2631; 2975
BthCI	GCNG!C	41	114; 155; 182; 227; 254; 362; 401; 440; 447; 482; 560; 614; 647; 743; 1139; 1658; 1680; 1694; 2132; 2271; 2323; 2334; 2424; 2429; 2466; 2507; 2594; 2600; 2836; 2932; 2973; 2987; 3101; 3440; 3455; 3666; 3872; 3875; 3940; 4083; 4238
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1199
BtsCI	GGATGNN!	6	612; 816; 2220; 2677; 2702; 3156
BtsCI	!CATCC	4	551; 692; 704; 2046
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	314; 587; 2628; 3078
BveI	!NNNNNNNNGCAGGT	1	2247
Cac8I	GCN!NGC	34	109; 116; 157; 161; 383; 442; 477; 634; 794; 876; 1579; 1622; 1636; 1909; 1928; 1981; 2000; 2254; 2440; 2659; 2725; 2731; 2763; 2804; 2808; 2862; 3145; 3332; 3379; 3435; 3457; 3668; 4228; 4265
CaiI	CAGNNN!CTG	2	3461; 3869
CciI	T!CATGA	2	1786; 3558
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	6	420; 780; 2649; 2654; 2852; 2993
CdiI	C!GATG	2	1463; 2798
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	2	252; 4232
CdpI	!NNNNNNNNNNNNNNNNNNCTCCGC	2	2021; 2063
CelII	GC!TNAGC	1	310
CfoI	GCG!C	24	120; 286; 638; 691; 1626; 1634; 1660; 1682; 1691; 1704; 1735; 2354; 2362; 2426; 2463; 2729; 2989; 3165; 3251; 3654; 3763; 3937; 4037; 4104
CfrI	Y!GGCCR	5	477; 2266; 2440; 2831; 2858
Cfr9I	C!CCGGG	1	879
Cfr10I	R!CCGGY	9	123; 187; 475; 511; 820; 1577; 2679; 2860; 3143
Cfr13I	G!GNCC	11	249; 720; 721; 876; 877; 1467; 2876; 3321; 3367; 3425; 3458
Cfr42I	CCGC!GG	1	875
ChaI	GATC!	26	174; 489; 537; 552; 604; 757; 836; 887; 896; 1021; 2201; 2205; 2224; 2535; 2613; 2694; 2703; 2781; 3157; 3173; 3532; 3544; 3622; 3630; 3641; 3716
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	2177; 3617; 3717; 3795
CjeI	!NNNNNNNNNACNNNNNTGG	5	1844; 1939; 3131; 3681; 4236
CjeI	ACNNNNNTGGNNNNNNNNNNNNNNNN!	5	1878; 1973; 3165; 3715; 4270
CjeI	!NNNNNNNNCCANNNNNNGT	4	2143; 3583; 3683; 3761
CjePI	CCANNNNNNTCNNNNNNNNNNNNNNNN!	2	3617; 3795
CjePI	!NNNNNNNNGANNNNNNTGG	2	3131; 3730
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	2	3164; 3763
CjePI	!NNNNNNNNCCANNNNNNTC	2	3584; 3762
Clal	AT!CGAT	1	2200
CpoI	CG!GWCCG	1	2876
CseI	GACGCNNNNN!	2	3070; 3149
CseI	!NNNNNNNNNNGCGTC	3	1693; 3588; 4166
CsiI	A!CCWGGT	1	1949
CspI	CG!GWCCG	1	2876
Csp6I	G!TAC	6	97; 426; 786; 869; 921; 2665

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Csp45I	TT!CGAA	2	850; 3042
CspAI	A!CCGGT	1	123
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	1640; 3249
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	19	135; 165; 255; 588; 675; 726; 1787; 1927; 1999; 2090; 2231; 2576; 2762; 2793; 2819; 3175; 3559; 4279; 4330
CviJI	RG!CY	93	10; 111; 155; 216; 251; 299; 314; 326; 332; 362; 401; 455; 461; 475; 479; 515; 614; 632; 647; 656; 671; 722; 771; 841; 847; 878; 913; 1029; 1139; 1306; 1326; 1468; 1549; 1563; 1577; 1858; 1899; 1971; 2094; 2123; 2129; 2138; 2146; 2169; 2181; 2187; 2268; 2285; 2293; 2320; 2345; 2429; 2438; 2442; 2466; 2504; 2580; 2597; 2616; 2679; 2723; 2733; 2750; 2833; 2860; 2864; 2901; 2924; 2940; 3120; 3147; 3208; 3330; 3369; 3426; 3433; 3440; 3459; 3470; 3721; 3750; 3793; 3804; 3869; 3948; 3973; 3978; 4024; 4114; 4212; 4238; 4256; 4267
CviKI-1	RG!CY	93	10; 111; 155; 216; 251; 299; 314; 326; 332; 362; 401; 455; 461; 475; 479; 515; 614; 632; 647; 656; 671; 722; 771; 841; 847; 878; 913; 1029; 1139; 1306; 1326; 1468; 1549; 1563; 1577; 1858; 1899; 1971; 2094; 2123; 2129; 2138; 2146; 2169; 2181; 2187; 2268; 2285; 2293; 2320; 2345; 2429; 2438; 2442; 2466; 2504; 2580; 2597; 2616; 2679; 2723; 2733; 2750; 2833; 2860; 2864; 2901; 2924; 2940; 3120; 3147; 3208; 3330; 3369; 3426; 3433; 3440; 3459; 3470; 3721; 3750; 3793; 3804; 3869; 3948; 3973; 3978; 4024; 4114; 4212; 4238; 4256; 4267
CviQI	G!TAC	6	97; 426; 786; 869; 921; 2665
DdeI	C!TNAG	7	310; 1840; 2142; 3023; 3472; 3595; 4004
DinI	GGC!GCC	2	285; 2361
DpnI	GA!TC	26	172; 487; 535; 550; 602; 755; 834; 885; 894; 1019; 2199; 2203; 2222; 2533; 2611; 2692; 2701; 2779; 3155; 3171; 3530; 3542; 3620; 3628; 3639; 3714
DpnII	!GATC	26	170; 485; 533; 548; 600; 753; 832; 883; 892; 1017; 2197; 2201; 2220; 2531; 2609; 2690; 2699; 2777; 3153; 3169; 3528; 3540; 3618; 3626; 3637; 3712
DraI	TTT!AAA	3	1062; 3504; 3523
DraII	RG!GNCCY	2	720; 3458
DraIII	CACNN!GTG	1	1476
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	1	3840
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1431; 2387; 4176
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1431; 2387; 4176
EaeI	Y!GGCCR	5	477; 2266; 2440; 2831; 2858
EagI	C!GGCCG	2	477; 2266
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	4	265; 1827; 2704; 2914
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	4	265; 1827; 2704; 2914
EciI	GGCGGANNNNNNNNNN!	5	242; 1860; 2889; 4076; 4222
EciI	!NNNNNNNNNTCCGCC	4	727; 2031; 2052; 2073
Ecl136II	GAG!CTC	1	841
EclXI	C!GGCCG	2	477; 2266
Eco24I	GRGCY!C	6	724; 843; 880; 1551; 2725; 3435
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	3349
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	2876; 3321
Eco47III	AGC!GCT	1	119
Eco52I	C!GGCCG	2	477; 2266
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	2	2506; 2938
Eco57I	!NNNNNNNNNNNNNNCTTCAG	4	279; 441; 612; 3736

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco72I	CAC!GTG	2	318; 450
Eco81I	CC!TNAGG	2	1840; 3472
Eco88I	C!YCGRG	4	241; 520; 836; 879
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	7	134; 164; 587; 2089; 2182; 2792; 3197
Eco147I	AGG!CCT	1	2181
EcoHI	!CCSGG	7	806; 878; 879; 2362; 2522; 3135; 3899
EcoICRI	GAG!CTC	1	841
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	3	2506; 2938; 3200
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	279; 441; 612; 3143; 3736
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	720; 3458
EcoRI	G!AATTC	1	852
EcoRII	!CCWGG	9	1894; 1949; 1966; 2745; 3324; 3427; 4117; 4130; 4251
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	7	134; 164; 587; 2089; 2182; 2792; 3197
EcoT22I	ATGCA!T	3	1932; 2004; 4335
EcoT38I	GRGCI!C	6	724; 843; 880; 1551; 2725; 3435
Eco53ki	GAG!CTC	1	841
EgeI	GGC!GCC	2	285; 2361
EheI	GGC!GCC	2	285; 2361
ErhI	C!CWWGG	7	134; 164; 587; 2089; 2182; 2792; 3197
EsaBC3I	TC!GA	17	174; 213; 420; 838; 851; 864; 1510; 2201; 2474; 2630; 2654; 2690; 2852; 3043; 3088; 3343; 4181
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	19	138; 168; 258; 591; 678; 729; 1790; 1930; 2002; 2093; 2234; 2579; 2765; 2796; 2822; 3178; 3562; 4282; 4333
Fail	YA!TR	44	83; 136; 166; 256; 589; 676; 727; 937; 1022; 1032; 1098; 1143; 1348; 1776; 1788; 1919; 1928; 1991; 2000; 2024; 2091; 2115; 2232; 2296; 2577; 2602; 2763; 2794; 2820; 2892; 3108; 3176; 3254; 3306; 3467; 3486; 3488; 3560; 3838; 4027; 4143; 4216; 4280; 4331
FalI	AAGNNNNNCTNNNNNNNNNNNN!	3	91; 966; 2700
FalI	!NNNNNNNNAAGNNNNNCTT	3	59; 934; 2668
FaqI	GGGACNNNNNNNNNN!	3	2511; 3043; 3152
FaqI	!NNNNNNNNNNNNNGTCCC	4	1876; 1948; 2012; 3307
FatI	!CATG	19	134; 164; 254; 587; 674; 725; 1786; 1926; 1998; 2089; 2230; 2575; 2761; 2792; 2818; 3174; 3558; 4278; 4329
FauI	CCCGCNNNN!	8	168; 421; 628; 1682; 2037; 2058; 3254; 3386
FauI	!NNNNNNGCGGG	6	867; 1613; 2483; 3020; 3158; 3305
FauNDI	CA!TATG	0	
FbaI	T!GATCA	1	1017
FblI	GT!MKAC	1	863
FmuI	GGNC!C	11	252; 723; 724; 879; 880; 1470; 2879; 3324; 3370; 3428; 3461
Fnu4HI	GC!NGC	41	112; 153; 180; 225; 252; 360; 399; 438; 445; 480; 558; 612; 645; 741; 1137; 1656; 1678; 1692; 2130; 2269; 2321; 2332; 2422; 2427; 2464; 2505; 2592; 2598; 2834; 2930; 2971; 2985; 3099; 3438; 3453; 3664; 3870; 3873; 3938; 4081; 4236
FokI	GGATGNNNNNNNNNN!	6	619; 823; 2227; 2684; 2709; 3163
FokI	!NNNNNNNNNNNNNCATCC	3	538; 679; 2033
FriOI	GRGCI!C	6	724; 843; 880; 1551; 2725; 3435
FseI	GGCCGG!CC	1	479
FspI	TGC!GCA	1	2462
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	115; 896; 1008; 1209; 1627; 2183; 3198; 3532; 3785

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	142	24; 58; 102; 137; 169; 193; 207; 252; 273; 291; 306; 328; 352; 367; 385; 399; 420; 478; 493; 525; 555; 579; 598; 633; 672; 705; 721; 736; 751; 780; 802; 819; 834; 885; 900; 922; 1043; 1082; 1096; 1237; 1332; 1356; 1379; 1402; 1420; 1442; 1463; 1482; 1501; 1530; 1551; 1565; 1591; 1679; 1705; 1754; 1795; 1813; 1852; 1868; 1906; 1963; 1978; 2035; 2055; 2069; 2086; 2100; 2137; 2152; 2195; 2278; 2345; 2376; 2396; 2411; 2456; 2470; 2536; 2550; 2569; 2585; 2626; 2646; 2693; 2743; 2759; 2779; 2804; 2824; 2847; 2874; 2892; 2918; 2958; 2984; 3008; 3064; 3078; 3106; 3149; 3170; 3205; 3249; 3337; 3361; 3383; 3403; 3419; 3440; 3454; 3473; 3557; 3577; 3605; 3620; 3654; 3696; 3723; 3738; 3783; 3807; 3821; 3843; 3869; 3889; 3913; 3939; 3987; 4006; 4025; 4051; 4086; 4131; 4161; 4175; 4226; 4240; 4265; 4281; 4302; 4331
FspEI	!NNNNNNNNNNNNNNNGG	113	93; 121; 151; 173; 202; 232; 266; 307; 329; 380; 415; 457; 484; 508; 556; 574; 593; 626; 646; 701; 730; 757; 793; 851; 875; 914; 958; 1031; 1131; 1200; 1308; 1357; 1379; 1407; 1443; 1488; 1517; 1553; 1572; 1600; 1620; 1683; 1706; 1814; 1846; 1864; 1893; 1936; 1965; 2076; 2105; 2148; 2169; 2197; 2230; 2250; 2275; 2302; 2327; 2349; 2377; 2403; 2424; 2475; 2496; 2514; 2562; 2598; 2654; 2679; 2703; 2732; 2755; 2779; 2805; 2827; 2846; 2871; 2911; 2947; 3012; 3097; 3121; 3150; 3184; 3205; 3225; 3270; 3297; 3316; 3349; 3401; 3432; 3459; 3511; 3609; 3680; 3725; 3786; 3851; 3885; 3911; 3929; 3965; 4035; 4058; 4080; 4104; 4137; 4185; 4220; 4238; 4295
Fsp4HI	GC!NGC	41	112; 153; 180; 225; 252; 360; 399; 438; 445; 480; 558; 612; 645; 741; 1137; 1656; 1678; 1692; 2130; 2269; 2321; 2332; 2422; 2427; 2464; 2505; 2592; 2598; 2834; 2930; 2971; 2985; 3099; 3438; 3453; 3664; 3870; 3873; 3938; 4081; 4236
GdiII	C!GGCCR	2	477; 2266
GdiII	Y!GGCCG	4	477; 2266; 2831; 2858
GlaI	GC!GC	24	119; 285; 637; 690; 1625; 1633; 1659; 1681; 1690; 1703; 1734; 2353; 2361; 2425; 2462; 2728; 2988; 3164; 3250; 3653; 3762; 3936; 4036; 4103
GluI	GC!NGC	41	112; 153; 180; 225; 252; 360; 399; 438; 445; 480; 558; 612; 645; 741; 1137; 1656; 1678; 1692; 2130; 2269; 2321; 2332; 2422; 2427; 2464; 2505; 2592; 2598; 2834; 2930; 2971; 2985; 3099; 3438; 3453; 3664; 3870; 3873; 3938; 4081; 4236
GsaI	CCCAG!C	6	359; 704; 913; 1907; 1979; 3978
GsaI	GCTGG!G	2	775; 2868
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3200
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3143
HaeI	WGG!CCW	5	2181; 2442; 3804; 4256; 4267
HaeII	RGCGC!Y	7	121; 287; 692; 1627; 1635; 2363; 4038
HaeIII	GG!CC	23	155; 251; 475; 479; 722; 878; 1326; 1468; 2123; 2129; 2138; 2181; 2268; 2442; 2833; 2860; 3369; 3426; 3459; 3804; 4238; 4256; 4267
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1035; 2556
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1001; 2522
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1034; 2555
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1003; 2524
HapII	C!CGG	24	124; 188; 476; 512; 808; 821; 880; 890; 1578; 2265; 2342; 2364; 2392; 2523; 2613; 2680; 2861; 3136; 3144; 3236; 3710; 3900; 3926; 4073
HgaI	GACGCNNNNN!	2	3070; 3149
HgaI	!NNNNNNNNNNNGCGTC	3	1693; 3588; 4166
HhaI	GCG!C	24	120; 286; 638; 691; 1626; 1634; 1660; 1682; 1691; 1704; 1735; 2354; 2362; 2426; 2463; 2729; 2989; 3165; 3251; 3654; 3763; 3937; 4037; 4104
HinI	GR!CGYC	4	284; 2360; 3062; 3141
Hin1II	CATG!	19	138; 168; 258; 591; 678; 729; 1790; 1930; 2002; 2093; 2234; 2579; 2765; 2796; 2822; 3178; 3562; 4282; 4333
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	2	1034; 2555
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	1002; 2523; 2553
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	3	1034; 2555; 2585
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	1002; 2523
Hin6I	G!CGC	24	118; 284; 636; 689; 1624; 1632; 1658; 1680; 1689; 1702; 1733; 2352; 2360; 2424; 2461; 2727; 2987; 3163; 3249; 3652; 3761; 3935; 4035; 4102

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HinP1I	G!CGC	24	118; 284; 636; 689; 1624; 1632; 1658; 1680; 1689; 1702; 1733; 2352; 2360; 2424; 2461; 2727; 2987; 3163; 3249; 3652; 3761; 3935; 4035; 4102
HincII	GTY!RAC	2	864; 1123
HindII	GTY!RAC	2	864; 1123
HindIII	A!AGCTT	1	845
HinfI	G!ANTC	10	1403; 1425; 1835; 2845; 2979; 3031; 3089; 3126; 3908; 4304
HpaI	GTT!AAC	1	1123
HpaII	C!CGG	24	124; 188; 476; 512; 808; 821; 880; 890; 1578; 2265; 2342; 2364; 2392; 2523; 2613; 2680; 2861; 3136; 3144; 3236; 3710; 3900; 3926; 4073
HphI	GGTGANNNNNNNN!	4	513; 835; 3431; 3547
HphI	!NNNNNNNTCACC	5	177; 531; 609; 1477; 2538
Hpy8I	GTN!NAC	7	666; 864; 1123; 1407; 1424; 1479; 3966
Hpy99I	CGWCG!	10	148; 643; 868; 2450; 2478; 2772; 2787; 3064; 3449; 4182
Hpy166II	GTN!NAC	7	666; 864; 1123; 1407; 1424; 1479; 3966
Hpy188I	TCN!GA	10	1534; 2143; 2327; 2671; 3024; 3125; 3604; 3738; 4091; 4169
Hpy188III	TC!NNGA	24	420; 604; 684; 801; 836; 1787; 1839; 2152; 2205; 2378; 2694; 2703; 2786; 2842; 2886; 2976; 3009; 3078; 3559; 3633; 3716; 3814; 3912; 4046
HpyAV	CCTTCNNNNNN!	8	303; 384; 636; 744; 807; 3005; 3112; 3791
HpyAV	!NNNNNGAAGG	7	1593; 2488; 3217; 3233; 3416; 3733; 4043
HpyCH4III	ACN!GT	10	570; 868; 1451; 2740; 2856; 2964; 3287; 3778; 4248; 4319
HpyCH4IV	A!CGT	10	317; 449; 1420; 1432; 1475; 1585; 2476; 2663; 3444; 3577
HpyCH4V	TG!CA	25	55; 381; 447; 582; 678; 711; 814; 859; 965; 1109; 1136; 1204; 1921; 1930; 1993; 2002; 2117; 2193; 2252; 2411; 2586; 2600; 3670; 3966; 4333
HpyF3I	C!TNAG	7	310; 1840; 2142; 3023; 3472; 3595; 4004
HpyF10VI	GCNNNNN!NNGC	27	117; 149; 188; 233; 281; 488; 620; 644; 1587; 1617; 1644; 1686; 1927; 1999; 2050; 2129; 2351; 2435; 2458; 2597; 2720; 2803; 3070; 3257; 3461; 3660; 4232
Hsp92I	GR!CGYC	4	284; 2360; 3062; 3141
Hsp92II	CATG!	19	138; 168; 258; 591; 678; 729; 1790; 1930; 2002; 2093; 2234; 2579; 2765; 2796; 2822; 3178; 3562; 4282; 4333
HspAI	G!CGC	24	118; 284; 636; 689; 1624; 1632; 1658; 1680; 1689; 1702; 1733; 2352; 2360; 2424; 2461; 2727; 2987; 3163; 3249; 3652; 3761; 3935; 4035; 4102
KasI	G!GCGCC	2	283; 2359
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	872
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	875
Ksp22I	T!GATCA	1	1017
KspAI	GTT!AAC	1	1123
Kzo9I	!GATC	26	170; 485; 533; 548; 600; 753; 832; 883; 892; 1017; 2197; 2201; 2220; 2531; 2609; 2690; 2699; 2777; 3153; 3169; 3528; 3540; 3618; 3626; 3637; 3712
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	265; 2704; 2914
LpnI	RGC!GCV	7	119; 285; 690; 1625; 1633; 2361; 4036
LpnPI	CCDGNNNNNNNNN!	61	58; 137; 169; 201; 301; 319; 369; 391; 489; 525; 592; 646; 714; 802; 821; 893; 923; 1097; 1402; 1591; 1814; 1852; 1868; 1908; 1963; 1980; 2080; 2165; 2278; 2355; 2377; 2400; 2536; 2550; 2569; 2626; 2693; 2743; 2759; 2816; 2874; 3083; 3149; 3173; 3249; 3338; 3441; 3474; 3705; 3723; 3869; 3889; 3913; 3939; 3988; 4086; 4131; 4161; 4240; 4265; 4302
LpnPI	!NNNNNNNNNNNNNCHGG	52	93; 173; 202; 232; 461; 497; 589; 757; 793; 865; 958; 1443; 1563; 1620; 1683; 1881; 1893; 1953; 1965; 2197; 2242; 2285; 2327; 2349; 2377; 2424; 2486; 2508; 2598; 2665; 2688; 2732; 2827; 2846; 2871; 3020; 3121; 3164; 3221; 3311; 3414; 3441; 3459; 3695; 3732; 3885; 3911; 4051; 4069; 4104; 4185; 4238
Lsp1109I	GCAGCNNNNNNNN!	8	569; 623; 1148; 2433; 2475; 2996; 3449; 3949
Lsp1109I	!NNNNNNNNNNNGCTGC	8	98; 431; 1642; 2307; 2491; 2584; 3650; 3856
LweI	GCATCNNNNN!	10	191; 425; 713; 785; 1176; 1939; 2011; 2659; 2723; 2998
LweI	!NNNNNNNNNGATGC	5	801; 2318; 2573; 2789; 4181
MabI	A!CCWGGT	1	1949
MaeI	C!TAG	9	115; 896; 1008; 1209; 1627; 2183; 3198; 3532; 3785
MaeII	A!CGT	10	317; 449; 1420; 1432; 1475; 1585; 2476; 2663; 3444; 3577

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MaeIII	!GTNAC	12	40; 899; 975; 1148; 1649; 1661; 2480; 2786; 3476; 3742; 3858; 3921
MaiI	GA!TC	26	172; 487; 535; 550; 602; 755; 834; 885; 894; 1019; 2199; 2203; 2222; 2533; 2611; 2692; 2701; 2779; 3155; 3171; 3530; 3542; 3620; 3628; 3639; 3714
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1784; 2973
MbiI	GAG!CGG	3	152; 1620; 3027
MboI	!GATC	26	170; 485; 533; 548; 600; 753; 832; 883; 892; 1017; 2197; 2201; 2220; 2531; 2609; 2690; 2699; 2777; 3153; 3169; 3528; 3540; 3618; 3626; 3637; 3712
MboII	GAAGANNNNNNNN!	7	282; 838; 1616; 1844; 2721; 2931; 3550
MboII	!NNNNNNNTCTTC	5	528; 3011; 3178; 3378; 3621
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1110
MfII	R!GATCY	10	832; 883; 892; 2531; 2777; 3169; 3528; 3540; 3626; 3637
MhII	GDGCH!C	15	238; 277; 511; 578; 724; 843; 880; 1551; 2306; 2399; 2473; 2663; 2725; 3435; 3968
MisI	TGG!CCA	1	2442
MluI	A!CGCGT	1	1246
MluNI	TGG!CCA	1	2442
MlyI	GAGTCNNNNN!	2	1412; 1844
MlyI	!NNNNNGACTC	3	1419; 3025; 3902
Mly113I	GG!CGCC	2	284; 2360
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1453
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	3885; 4069
MnII	CCTCNNNNNNN!	7	1079; 2143; 2961; 3167; 3481; 3851; 4175
MnII	!NNNNNNGAGG	17	225; 423; 465; 516; 741; 1039; 1504; 1835; 2113; 2156; 2171; 2211; 2275; 2411; 2768; 3198; 4101
Mph1103I	ATGCA!T	3	1932; 2004; 4335
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	475; 1577; 2860; 3143
MroXI	GAANN!NNTTC	1	373
MscI	TGG!CCA	1	2442
MseI	T!TAA	14	1061; 1122; 1243; 1264; 1275; 1287; 1298; 1315; 1413; 1684; 3503; 3517; 3522; 3574
MslI	CAYNN!NNRTG	1	2797
MspI	C!CGG	24	124; 188; 476; 512; 808; 821; 880; 890; 1578; 2265; 2342; 2364; 2392; 2523; 2613; 2680; 2861; 3136; 3144; 3236; 3710; 3900; 3926; 4073
Msp20I	TGG!CCA	1	2442
MspA1I	CMG!CKG	6	359; 874; 1858; 2466; 3695; 3940
MspCI	C!TTAAG	0	
MspJI	CNNRRNNNNNNNN!	222	24; 47; 71; 101; 120; 136; 159; 172; 186; 200; 216; 229; 253; 267; 290; 314; 328; 362; 378; 394; 419; 432; 453; 483; 510; 524; 543; 558; 582; 598; 616; 632; 645; 672; 685; 712; 729; 754; 769; 784; 801; 819; 833; 848; 863; 885; 902; 916; 930; 963; 981; 1000; 1020; 1033; 1048; 1067; 1084; 1097; 1138; 1152; 1165; 1183; 1221; 1236; 1254; 1295; 1319; 1339; 1357; 1378; 1401; 1433; 1448; 1470; 1488; 1501; 1522; 1539; 1552; 1565; 1581; 1594; 1624; 1639; 1664; 1682; 1695; 1710; 1734; 1748; 1772; 1797; 1813; 1851; 1867; 1906; 1920; 1934; 1962; 1978; 1992; 2006; 2035; 2048; 2069; 2078; 2100; 2130; 2146; 2164; 2194; 2217; 2241; 2265; 2284; 2312; 2338; 2354; 2367; 2390; 2404; 2424; 2437; 2451; 2470; 2484; 2497; 2513; 2528; 2541; 2557; 2572; 2588; 2613; 2632; 2648; 2661; 2674; 2692; 2706; 2720; 2736; 2758; 2774; 2793; 2815; 2831; 2854; 2873; 2887; 2903; 2917; 2937; 2953; 2966; 2988; 3021; 3035; 3055; 3068; 3082; 3136; 3149; 3172; 3185; 3204; 3221; 3248; 3284; 3317; 3336; 3361; 3382; 3409; 3422; 3439; 3453; 3468; 3484; 3544; 3569; 3585; 3607; 3620; 3634; 3665; 3679; 3704; 3722; 3737; 3750; 3769; 3782; 3797; 3826; 3845; 3863; 3888; 3903; 3922; 3938; 3957; 3975; 3991; 4005; 4024; 4051; 4074; 4096; 4115; 4130; 4143; 4160; 4180; 4207; 4220; 4239; 4264; 4287; 4301; 4314; 4331

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNGG	186	16; 35; 53; 80; 101; 121; 142; 160; 181; 199; 227; 250; 274; 292; 309; 329; 350; 368; 399; 427; 444; 462; 484; 506; 532; 556; 574; 606; 623; 644; 661; 687; 712; 730; 754; 775; 793; 822; 842; 859; 876; 896; 915; 945; 969; 990; 1012; 1041; 1070; 1112; 1195; 1233; 1257; 1280; 1309; 1353; 1375; 1407; 1443; 1460; 1481; 1518; 1538; 1555; 1572; 1607; 1625; 1643; 1660; 1684; 1706; 1733; 1761; 1787; 1825; 1846; 1863; 1881; 1904; 1925; 1953; 1976; 1997; 2015; 2036; 2053; 2076; 2100; 2120; 2138; 2160; 2191; 2213; 2239; 2258; 2275; 2303; 2322; 2341; 2359; 2377; 2398; 2420; 2444; 2477; 2497; 2515; 2536; 2562; 2589; 2606; 2623; 2640; 2666; 2688; 2710; 2728; 2748; 2767; 2789; 2827; 2847; 2871; 2891; 2911; 2938; 2962; 2995; 3014; 3042; 3064; 3093; 3121; 3146; 3165; 3184; 3205; 3222; 3239; 3270; 3297; 3317; 3340; 3360; 3397; 3414; 3433; 3459; 3479; 3518; 3545; 3564; 3582; 3619; 3637; 3678; 3696; 3722; 3739; 3771; 3800; 3828; 3849; 3872; 3891; 3912; 3930; 3947; 3965; 3991; 4012; 4032; 4052; 4070; 4091; 4117; 4134; 4153; 4172; 4201; 4220; 4238; 4257; 4275; 4293; 4316
MspR9I	CC!NGG	16	808; 880; 881; 1896; 1951; 1968; 2364; 2524; 2747; 3137; 3326; 3429; 3901; 4119; 4132; 4253
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1110
MvaI	CC!WGG	9	1896; 1951; 1968; 2747; 3326; 3429; 4119; 4132; 4253
Mva1269I	GAATGCN!	1	1111
Mva1269I	G!CATTC	1	1204
MvnI	CG!CG	18	482; 638; 743; 874; 1248; 1284; 1660; 1680; 1704; 1735; 2426; 2727; 3165; 3249; 3312; 3381; 3654; 4235
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	27	117; 149; 188; 233; 281; 488; 620; 644; 1587; 1617; 1644; 1686; 1927; 1999; 2050; 2129; 2351; 2435; 2458; 2597; 2720; 2803; 3070; 3257; 3461; 3660; 4232
NaeI	GCC!GGC	4	477; 1579; 2862; 3145
NarI	GG!CGCC	2	284; 2360
NciI	CC!SGG	7	808; 880; 881; 2364; 2524; 3137; 3901
NcoI	C!CATGG	5	134; 164; 587; 2089; 2792
NdeI	CA!TATG	0	
NdeII	!GATC	26	170; 485; 533; 548; 600; 753; 832; 883; 892; 1017; 2197; 2201; 2220; 2531; 2609; 2690; 2699; 2777; 3153; 3169; 3528; 3540; 3618; 3626; 3637; 3712
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	4	475; 1577; 2860; 3143
NheI	G!CTAGC	1	114
NlaIII	CATG!	19	138; 168; 258; 591; 678; 729; 1790; 1930; 2002; 2093; 2234; 2579; 2765; 2796; 2822; 3178; 3562; 4282; 4333
NlaIV	GGN!NCC	23	192; 237; 285; 348; 510; 721; 722; 870; 878; 885; 1515; 1536; 1548; 1739; 1900; 1972; 2361; 2396; 3244; 3323; 3368; 4211; 4250
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	207; 1192; 1507; 3099
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	301; 484; 4171
Nli3877I	CYCGR!G	4	245; 524; 840; 883
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2149; 2585
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2114
NmeDI	RCCGGYNNNNNNN!	9	135; 199; 487; 523; 832; 1589; 2691; 2872; 3155
NmeDI	!NNNNNNNNNNNNRCCGGY	9	110; 174; 462; 498; 807; 1564; 2666; 2847; 3130
NmuCI	!GTSAC	5	40; 975; 1649; 2480; 2786
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2462
NsiI	ATGCA!T	3	1932; 2004; 4335
NspI	RCATG!Y	5	678; 1930; 2002; 2765; 4282
NspV	TT!CGAA	2	850; 3042
OliI	CACNN!NNGTG	0	
PabI	GTA!C	6	99; 428; 788; 871; 923; 2667
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	1930; 2002; 2765

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PaeR7I	C!TCGAG	1	836
PagI	T!CATGA	2	1786; 3558
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3325; 3428
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2181
PciI	A!CATGT	1	4278
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	3	265; 2704; 2914
PcsI	WCGNNNN!NNNCGW	7	425; 2654; 2731; 2974; 3048; 3441; 3959
PctI	GAATGCN!	1	1111
PctI	G!CATTC	1	1204
PdiI	GCC!GGC	4	477; 1579; 2862; 3145
PdmI	GAANN!NNTTC	1	373
PfeI	G!AWTC	5	2845; 2979; 3089; 3126; 4304
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2478
PfIMI	CCANNNN!NTGG	1	321
PfoI	T!CCNGGA	1	3135
PhoI	GG!CC	23	155; 251; 475; 479; 722; 878; 1326; 1468; 2123; 2129; 2138; 2181; 2268; 2442; 2833; 2860; 3369; 3426; 3459; 3804; 4238; 4256; 4267
PinAI	A!CCGGT	1	123
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	2741
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	2306; 2561
PleI	GAGTCNNNN!	2	1411; 1843
PleI	!NNNNNGACTC	3	1419; 3025; 3902
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	2	318; 450
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	2	318; 450
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1442
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	3572
PpiI	GAGNNNNGTTCNNNNNNNNNNNN!	1	3604
PpiI	!NNNNNNNGAACNNNNNCTC	1	1410
PpsI	GAGTCNNNN!	2	1411; 1843
PpsI	!NNNNNGACTC	3	1419; 3025; 3902
Ppu10I	A!TGCAT	3	1928; 2000; 4331
Ppu21I	YAC!GTR	4	318; 450; 1476; 2664
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4278
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	4	83; 937; 1143; 1348
Psp03I	GGWC!C	2	2879; 3324
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	9	1894; 1949; 1966; 2745; 3324; 3427; 4117; 4130; 4251
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	843
PspCI	CAC!GTG	2	318; 450
PspEI	G!GTNACC	0	
PspGI	!CCWGG	9	1894; 1949; 1966; 2745; 3324; 3427; 4117; 4130; 4251
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	23	192; 237; 285; 348; 510; 721; 722; 870; 878; 885; 1515; 1536; 1548; 1739; 1900; 1972; 2361; 2396; 3244; 3323; 3368; 4211; 4250
PspOMI	G!GGCCC	2	720; 876
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	2	2090; 3089
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	1	2492
PspPI	G!GNCC	11	249; 720; 721; 876; 877; 1467; 2876; 3321; 3367; 3425; 3458
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	5	374; 719; 1913; 1985; 3491
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	1826; 3021
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	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	RGNC!CY	2	723; 3461
PstI	CTGCA!G	2	713; 861
PstNI	CAGNNN!CTG	2	3461; 3869
PsuI	R!GATCY	10	832; 883; 892; 2531; 2777; 3169; 3528; 3540; 3626; 3637
PsyI	GACN!NNGTC	1	2478
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	1858; 2466
RcaI	T!CATGA	2	1786; 3558
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	2875
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	1	479
RleAI	CCCACANNNNNNNNNNNN!	1	1089
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	2	455; 548
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	98; 427; 787; 870; 922; 2666
RsaNI	G!TAC	6	97; 426; 786; 869; 921; 2665
RseI	CAYNN!NNRTG	1	2797
RsrII	CG!GWCCG	1	2876
Rsr2I	CG!GWCCG	1	2876
SacI	GAGCT!C	1	843
SacII	CCGC!GG	1	875
SalI	G!TCGAC	1	862
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	265; 2704; 2914
SaqAI	T!TAA	14	1061; 1122; 1243; 1264; 1275; 1287; 1298; 1315; 1413; 1684; 3503; 3517; 3522; 3574
SatI	GC!NGC	41	112; 153; 180; 225; 252; 360; 399; 438; 445; 480; 558; 612; 645; 741; 1137; 1656; 1678; 1692; 2130; 2269; 2321; 2332; 2422; 2427; 2464; 2505; 2592; 2598; 2834; 2930; 2971; 2985; 3099; 3438; 3453; 3664; 3870; 3873; 3938; 4081; 4236
Sau96I	G!GNCC	11	249; 720; 721; 876; 877; 1467; 2876; 3321; 3367; 3425; 3458
Sau3AI	!GATC	26	170; 485; 533; 548; 600; 753; 832; 883; 892; 1017; 2197; 2201; 2220; 2531; 2609; 2690; 2699; 2777; 3153; 3169; 3528; 3540; 3618; 3626; 3637; 3712
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1412; 1844
SchI	!NNNNNGACTC	3	1419; 3025; 3902
SciI	CTC!GAG	1	838
ScrFI	CC!NGG	16	808; 880; 881; 1896; 1951; 1968; 2364; 2524; 2747; 3137; 3326; 3429; 3901; 4119; 4132; 4253
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNN!	4	1938; 2010; 2179; 4121
SdeAI	!NNNNNNNNNNNNNNNNNCTYCTG	2	2515; 3000
SdeOSI	GACNNNRTGANNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNTCAYNNNNGTC	0	
SdeOSI	TCAYNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	15	238; 277; 511; 578; 724; 843; 880; 1551; 2306; 2399; 2473; 2663; 2725; 3435; 3968
SelI	!CGCG	18	480; 636; 741; 872; 1246; 1282; 1658; 1678; 1702; 1733; 2424; 2725; 3163; 3247; 3310; 3379; 3652; 4233

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SetI	ASST!	60	47; 218; 295; 308; 320; 352; 452; 457; 463; 503; 581; 616; 628; 658; 773; 843; 849; 901; 915; 977; 1050; 1071; 1080; 1092; 1141; 1308; 1423; 1435; 1478; 1515; 1565; 1588; 1712; 1860; 1955; 2148; 2261; 2389; 2468; 2479; 2551; 2622; 2666; 2926; 3072; 3116; 3447; 3478; 3537; 3580; 3723; 3744; 3843; 3980; 3995; 4014; 4026; 4070; 4116; 4167
SexAI	A!CCWGGT	1	1949
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	191; 425; 713; 785; 1176; 1939; 2011; 2659; 2723; 2998
SfaNI	!NNNNNNNNNGATGC	5	801; 2318; 2573; 2789; 4181
SfcI	C!TRYAG	6	651; 709; 857; 1695; 3822; 4013
SfiI	GGCCNNNN!NGGCC	1	2135
SfoI	GGC!GCC	2	285; 2361
Sfr274I	C!TCGAG	1	836
Sfr303I	CCGC!GG	1	875
SfuI	TT!CGAA	2	850; 3042
SgeI	CNNGNNNNNNNNN!	178	6; 57; 120; 136; 159; 172; 186; 200; 216; 229; 253; 267; 300; 318; 368; 390; 425; 441; 460; 483; 510; 524; 543; 558; 582; 600; 616; 632; 645; 672; 687; 713; 729; 754; 780; 801; 819; 833; 848; 885; 902; 922; 985; 1020; 1067; 1096; 1138; 1221; 1259; 1295; 1379; 1401; 1433; 1470; 1488; 1507; 1522; 1564; 1581; 1598; 1633; 1647; 1664; 1686; 1710; 1734; 1799; 1813; 1851; 1867; 1907; 1920; 1939; 1962; 1979; 1992; 2011; 2041; 2062; 2079; 2102; 2137; 2164; 2195; 2217; 2243; 2265; 2284; 2312; 2348; 2367; 2390; 2404; 2424; 2437; 2451; 2470; 2484; 2503; 2535; 2549; 2562; 2588; 2619; 2632; 2649; 2666; 2680; 2697; 2715; 2730; 2758; 2774; 2793; 2815; 2831; 2854; 2873; 2898; 2917; 2937; 2964; 2988; 3021; 3040; 3068; 3082; 3148; 3172; 3187; 3210; 3231; 3248; 3296; 3323; 3337; 3366; 3390; 3423; 3440; 3460; 3473; 3486; 3544; 3571; 3590; 3620; 3645; 3665; 3679; 3704; 3722; 3759; 3797; 3826; 3854; 3868; 3888; 3903; 3924; 3938; 3957; 3975; 3991; 4031; 4051; 4078; 4096; 4117; 4130; 4143; 4160; 4184; 4207; 4239; 4264; 4291; 4313
SgeI	!NNNNNNNNNNNNNCNNG	155	31; 94; 121; 142; 160; 181; 199; 227; 250; 274; 292; 342; 364; 399; 427; 457; 484; 506; 532; 556; 574; 606; 623; 646; 670; 687; 712; 730; 754; 775; 793; 822; 859; 876; 896; 959; 994; 1041; 1070; 1112; 1195; 1233; 1269; 1353; 1375; 1407; 1444; 1462; 1481; 1538; 1555; 1572; 1607; 1625; 1645; 1665; 1684; 1708; 1773; 1825; 1881; 1913; 1936; 1953; 1985; 2015; 2036; 2053; 2076; 2111; 2138; 2169; 2191; 2217; 2239; 2258; 2286; 2322; 2341; 2364; 2385; 2403; 2420; 2444; 2477; 2509; 2536; 2562; 2593; 2623; 2640; 2666; 2689; 2710; 2732; 2752; 2772; 2789; 2828; 2847; 2872; 2891; 2911; 2938; 2962; 2995; 3014; 3042; 3064; 3122; 3146; 3165; 3184; 3205; 3222; 3270; 3297; 3317; 3340; 3364; 3397; 3414; 3434; 3460; 3518; 3545; 3564; 3594; 3619; 3639; 3678; 3696; 3733; 3771; 3800; 3828; 3849; 3877; 3898; 3931; 3949; 4005; 4025; 4052; 4070; 4091; 4117; 4134; 4158; 4181; 4213; 4238; 4265; 4287; 4316
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	875
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1507; 3294; 4087
SimI	!GACCC	4	803; 2788; 3356; 3604
SinI	G!GWCC	2	2876; 3321
SlaI	C!TCGAG	1	836
SmaI	CCC!GGG	1	881
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	1	2797
SmlI	C!TYRAG	6	836; 842; 2751; 3633; 3910; 4172
SmoI	C!TYRAG	6	836; 842; 2751; 3633; 3910; 4172
SmuI	CCCGCNNNN!	8	168; 421; 628; 1682; 2037; 2058; 3254; 3386
SmuI	!NNNNNNGCGGG	6	867; 1613; 2483; 3020; 3158; 3305
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	1930; 2002; 2765
SrfI	GCCC!GGGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sse9I	!AATT	12	60; 852; 956; 1110; 1174; 1252; 1278; 1289; 1936; 2008; 2100; 3518
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2181
SsiI	C!CGC	35	161; 180; 252; 414; 465; 480; 555; 621; 738; 741; 872; 1675; 1678; 1692; 1782; 2030; 2042; 2051; 2063; 2073; 2084; 2130; 2269; 2332; 2834; 2879; 2945; 2971; 3096; 3099; 3247; 3379; 3686; 3830; 4326
SsiI	G!CGG	28	152; 224; 227; 359; 398; 437; 644; 874; 1620; 1647; 1735; 1845; 2426; 2490; 2591; 2594; 2874; 2929; 3027; 3165; 3312; 3452; 3695; 3940; 4061; 4080; 4207; 4235
SspI	AAT!ATT	2	1268; 1821
SspDI	G!GCGCC	2	283; 2359
SspD5I	GGTGANNNNNNNN!	4	513; 835; 3431; 3547
SspD5I	!NNNNNNNNNTCACC	5	176; 530; 608; 1476; 2537
SstI	GAGCT!C	1	843
SstII	CCGC!GG	1	875
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	19	167; 248; 420; 527; 627; 814; 886; 1559; 1681; 2036; 2057; 2370; 2773; 2912; 2983; 3253; 3385; 3615; 4053
Sth132I	!NNNNNNNNCCGGG	17	708; 866; 1560; 1612; 1713; 2440; 2482; 2515; 3019; 3128; 3157; 3304; 3408; 3439; 3892; 3936; 4144
Sth302II	CC!GG	24	125; 189; 477; 513; 809; 822; 881; 891; 1579; 2266; 2343; 2365; 2393; 2524; 2614; 2681; 2862; 3137; 3145; 3237; 3711; 3901; 3927; 4074
StrI	C!TCGAG	1	836
StsI	GGATGNNNNNNNNNN!	6	620; 824; 2228; 2685; 2710; 3164
StsI	!NNNNNNNNNNNNNNCATCC	3	537; 678; 2032
StuI	AGG!CCT	1	2181
StyI	C!CWWGG	7	134; 164; 587; 2089; 2182; 2792; 3197
StyD4I	!CCNGG	16	806; 878; 879; 1894; 1949; 1966; 2362; 2522; 2745; 3135; 3324; 3427; 3899; 4117; 4130; 4251
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	10	570; 868; 1451; 2740; 2856; 2964; 3287; 3778; 4248; 4319
TaiI	ACGT!	10	320; 452; 1423; 1435; 1478; 1588; 2479; 2666; 3447; 3580
TaqI	T!CGA	17	173; 212; 419; 837; 850; 863; 1509; 2200; 2473; 2629; 2653; 2689; 2851; 3042; 3087; 3342; 4180
TaqII	GACCGANNNNNNNNNN!	3	1380; 2397; 3065
TaqII	!NNNNNNNNNTCGGTC	1	3309
TaqII	CACCCANNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	2	2264; 2856
TasI	!AATT	12	60; 852; 956; 1110; 1174; 1252; 1278; 1289; 1936; 2008; 2100; 3518
TatI	W!GTACW	2	96; 920
TauI	GCSG!C	25	155; 182; 227; 254; 362; 401; 440; 482; 647; 743; 1680; 1694; 2132; 2271; 2334; 2429; 2594; 2597; 2836; 2932; 2973; 3101; 3455; 4083; 4238
TfiI	G!AWTC	5	2845; 2979; 3089; 3126; 4304
TliI	C!TCGAG	1	836
TruII	T!TAA	14	1061; 1122; 1243; 1264; 1275; 1287; 1298; 1315; 1413; 1684; 3503; 3517; 3522; 3574
Tru9I	T!TAA	14	1061; 1122; 1243; 1264; 1275; 1287; 1298; 1315; 1413; 1684; 3503; 3517; 3522; 3574
TscAI	CASTGNN!	5	1206; 2489; 3599; 3870; 3883
TseI	G!CWGC	17	111; 444; 557; 611; 1136; 1655; 2320; 2421; 2463; 2504; 2597; 2984; 3437; 3663; 3869; 3872; 3937
TsoI	TARCCANNNNNNNNNN!	2	1332; 1679
TsoI	!NNNNNNNNNTGGYTA	2	1137; 2889
Tsp45I	!GTSAC	5	40; 975; 1649; 2480; 2786
Tsp509I	!AATT	12	60; 852; 956; 1110; 1174; 1252; 1278; 1289; 1936; 2008; 2100; 3518
TspDTI	ATGAANNNNNNNNNN!	4	283; 1118; 2419; 3123
TspDTI	!NNNNNNNNNTTCAT	3	2837; 3293; 3500
TspEI	!AATT	12	60; 852; 956; 1110; 1174; 1252; 1278; 1289; 1936; 2008; 2100; 3518

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspGI	ACGGANNNNNNNNNNN!	1	3235
TspGI	!NNNNNNNNNTCCGT	1	648
TspMI	C!CCGGG	1	879
TspRI	CASTGNN!	5	1206; 2489; 3599; 3870; 3883
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNGTG	1	160
TstI	GGANNNNNGTGNNNNNNNNNN!	1	192
TstI	!NNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2478
Tth111II	CAARCANNNNNNNNNN!	1	3687
Tth111II	!NNNNNNNNNTGYTTG	3	2795; 3655; 3694
UnbI	!GGNCC	11	248; 719; 720; 875; 876; 1466; 2875; 3320; 3366; 3424; 3457
Van9II	CCANNNN!NTGG	1	321
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	1	3964
VpaK11AI	!GGWCC	2	2875; 3320
VpaK11BI	G!GWCC	2	2876; 3321
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	852; 1174; 1278; 1289
XbaI	T!CTAGA	0	
XceI	RCATG!Y	5	678; 1930; 2002; 2765; 4282
XcmI	CCANNNN!NNNTGG	0	
XhoI	C!TCGAG	1	836
XhoII	R!GATCY	10	832; 883; 892; 2531; 2777; 3169; 3528; 3540; 3626; 3637
XmaI	C!CCGGG	1	879
XmaJI	C!CTAGG	2	2182; 3197
XmiI	GT!MKAC	1	863
XmnI	GAANN!NNTTC	1	373
XspI	C!TAG	9	115; 896; 1008; 1209; 1627; 2183; 3198; 3532; 3785
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	1932; 2004; 4335