

Gateway® TagRFP-AS-N entry clone

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	4	83; 963; 1162; 1367
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	4	511; 1450; 2406; 4195
AatI	AGG!CCT	1	2200
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	163
AccII	CG!CG	15	174; 923; 1303; 1679; 1699; 1723; 1754; 2445; 2746; 3184; 3268; 3331; 3400; 3673; 4254
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2481
Acc36I	ACCTGCNNNN!	2	2647; 3097
Acc36I	!NNNNNNNNGCAGGT	1	2266
Acc65I	G!GTACC	1	168
AccB1I	G!GYRCC	4	168; 1532; 2378; 2413
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	1803; 2992
AccBSI	GAG!CGG	2	1639; 3046
AceIII	CAGTCNNNNNNN!	1	1335
AceIII	!NNNNNNNNNNGAGCTG	0	
AciI	C!CGC	26	172; 921; 1694; 1697; 1711; 1801; 2049; 2061; 2070; 2082; 2092; 2103; 2149; 2288; 2351; 2853; 2898; 2964; 2990; 3115; 3118; 3266; 3398; 3705; 3849; 4345
AciI	G!CGG	22	174; 917; 1639; 1666; 1754; 1864; 2445; 2509; 2610; 2613; 2893; 2948; 3046; 3184; 3331; 3471; 3714; 3959; 4080; 4099; 4226; 4254
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	8	191; 2247; 2558; 2804; 3196; 3555; 3653; 3739
AcIWI	!NNNNNGATCC	6	178; 677; 2623; 3167; 3554; 3651
AcoI	Y!GGCCR	5	918; 2285; 2459; 2850; 2877
AcsI	R!AATY	5	152; 585; 1193; 1297; 1308
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	4	488; 933; 2525; 2957
AcuI	!NNNNNNNNNNNNNCTTCAG	1	3755
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	3	2379; 3081; 3160
AdeI	CACNNN!GTG	1	1495
AfaI	GT!AC	6	98; 170; 291; 655; 948; 2685
AfeI	AGC!GCT	1	119
AfiI	CCNNNNN!NNGG	21	319; 432; 598; 664; 746; 869; 1391; 1717; 2109; 2360; 2904; 3185; 3217; 3349; 3384; 3434; 3466; 3819; 4098; 4264; 4282
AfIII	C!TTAAG	2	697; 1261
AfIII	A!CRYGT	1	4297
AgeI	A!CCGGT	1	189
AgsI	TTS!AA	6	909; 1790; 1834; 1844; 2257; 3833
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	12	409; 527; 780; 1913; 1968; 1985; 2764; 3343; 3446; 4136; 4149; 4270
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	202

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	1953; 2025
AlfI	!NNNNNNNNNGCANNNNNNNTGC	2	1919; 1991
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1461
AloI	!NNNNNNNGGANNNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1429
AluI	AG!CT	17	141; 147; 637; 702; 894; 939; 1158; 1325; 1582; 1877; 2165; 2485; 2943; 3740; 3997; 4043; 4133
AluBI	AG!CT	17	141; 147; 637; 702; 894; 939; 1158; 1325; 1582; 1877; 2165; 2485; 2943; 3740; 3997; 4043; 4133
AlwI	GGATCNNNN!	8	191; 2247; 2558; 2804; 3196; 3555; 3653; 3739
AlwI	!NNNNNGATCC	6	178; 677; 2623; 3167; 3554; 3651
Alw21I	GWGCW!C	4	143; 2492; 2682; 3987
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	4	1803; 2221; 3240; 3368
Alw44I	G!TGCAC	1	3983
AlwNI	CAGNNN!CTG	2	3480; 3888
Ama87I	C!YCGRG	2	136; 179
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	119
ApaI	GGGCC!C	1	180
ApaBI	GCANNNNN!TGC	3	1947; 2019; 3481
ApaLI	G!TGCAC	1	3983
ApeKI	G!CWGC	14	111; 1155; 1674; 2339; 2440; 2482; 2523; 2616; 3003; 3456; 3682; 3888; 3891; 3956
ApoI	R!AATTY	5	152; 585; 1193; 1297; 1308
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2894
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	2688; 3341; 4179
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	2778
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2207
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	2949
ArsI	GACNNNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	21	133; 184; 683; 723; 1037; 2217; 2221; 2240; 2551; 2629; 2710; 2719; 2797; 3173; 3189; 3548; 3560; 3638; 3646; 3657; 3732
AsiGI	A!CCGGT	1	189
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2497
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	168
AspA2I	C!CTAGG	2	2201; 3216
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	21	120; 1645; 1653; 1679; 1701; 1710; 1723; 1754; 2373; 2381; 2445; 2482; 2748; 3008; 3184; 3270; 3673; 3782; 3956; 4056; 4123
AspS9I	G!GNCC	14	176; 177; 358; 413; 601; 693; 798; 932; 1486; 2895; 3340; 3386; 3444; 3477
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	150; 3061
AsuC2I	CC!SGG	6	180; 181; 2383; 2543; 3156; 3920
AsuHPI	GGTGANNNNNNNNN!	4	216; 313; 3450; 3566
AsuHPI	!NNNNNNNTCACC	3	268; 1496; 2557
AsuNHI	G!CTAGC	1	114
AvaI	C!YCGRG	2	136; 179
AvaII	G!GWCC	7	358; 413; 601; 798; 932; 2895; 3340
AviII	TGC!GCA	1	2481
AvrII	C!CTAGG	2	2201; 3216
AxyI	CC!TNAGG	2	1859; 3491
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	4	180; 2325; 2418; 3987
BalI	TGG!CCA	1	2461
BamHI	G!GATCC	1	183
BanI	G!GYRCC	4	168; 1532; 2378; 2413
BanII	GRGCY!C	5	143; 180; 1570; 2744; 3454
BanIII	AT!CGAT	1	2219
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	0	
BauI	C!ACGAG	2	3097; 4124
BauI	C!TCGTG	1	2971
BbeI	GGCGC!C	1	2382
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	1949; 2021; 2784
BbvI	GCAGCNNNNNNNN!	6	1167; 2452; 2494; 3015; 3468; 3968
BbvI	!NNNNNNNNNNNGCTGC	7	98; 1661; 2326; 2510; 2603; 3669; 3875
Bbv12I	GWGCW!C	4	143; 2492; 2682; 3987
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	4	1509; 2073; 2599; 3101
BccI	!NNNNNGATGG	4	541; 1477; 2257; 2685
BceAI	ACGGCNNNNNNNNNN!	2	2805; 3292
BceAI	!NNNNNNNNNNNGCCGT	4	847; 1520; 2338; 3797
Bcefl	ACGGCNNNNNNNNNN!	2	2805; 3292
Bcefl	!NNNNNNNNNNNGCCGT	4	848; 1521; 2339; 3798
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	1808; 2598; 4099
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	6	180; 181; 2383; 2543; 3156; 3920
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	4232
BdaI	!NNNNNNNNNNTGANNNNNNTCA	1	4198
BfaI	C!TAG	16	115; 385; 593; 625; 703; 808; 869; 895; 929; 1034; 1228; 1646; 2202; 3217; 3551; 3804
BfiI	ACTGGGNNNNN!	1	2328
BfiI	!NNNCCCAGT	1	2080
BfmI	C!TRYAG	4	157; 1714; 3841; 4032
BfoI	RGCGC!Y	5	121; 1646; 1654; 2382; 4057
BfrI	C!TTAAG	2	697; 1261
BfuI	GTATCCNNNNN!	3	1808; 2598; 4099
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	2647; 3097
BfuAI	!NNNNNNNGCAGGT	1	2266
BfuCI	!GATC	21	132; 183; 682; 722; 1036; 2216; 2220; 2239; 2550; 2628; 2709; 2718; 2796; 3172; 3188; 3547; 3559; 3637; 3645; 3656; 3731
BglI	GCCNNNN!NGGC	1	2154
BglII	A!GATCT	1	132
BisI	GC!NGC	30	112; 918; 921; 1156; 1675; 1697; 1711; 2149; 2288; 2340; 2351; 2441; 2446; 2483; 2524; 2611; 2617; 2853; 2949; 2990; 3004; 3118; 3457; 3472; 3683; 3889; 3892; 3957; 4100; 4255
BlnI	C!CTAGG	2	2201; 3216
BlpI	GC!TNAGC	0	

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BlsI	GCN!GC	30	113; 919; 922; 1157; 1676; 1698; 1712; 2150; 2289; 2341; 2352; 2442; 2447; 2484; 2525; 2612; 2618; 2854; 2950; 2991; 3005; 3119; 3458; 3473; 3684; 3890; 3893; 3958; 4101; 4256
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	7	358; 413; 601; 798; 932; 2895; 3340
Bme1390I	CC!NGG	18	180; 181; 411; 529; 782; 1915; 1970; 1987; 2383; 2543; 2766; 3156; 3345; 3448; 3920; 4138; 4151; 4272
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	136; 179
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	14	177; 178; 359; 414; 602; 694; 799; 933; 1487; 2896; 3341; 3387; 3445; 3478
BmiI	GGN!NCC	19	170; 178; 185; 324; 408; 934; 1534; 1555; 1567; 1758; 1919; 1991; 2380; 2415; 3263; 3342; 3387; 4230; 4269
BmrI	ACTGGGNNNNN!	1	2328
BmrI	!NNNNCCCAGT	1	2080
BmrFI	CC!NGG	18	180; 181; 411; 529; 782; 1915; 1970; 1987; 2383; 2543; 2766; 3156; 3345; 3448; 3920; 4138; 4151; 4272
BmsI	GCATCNNNNN!	6	1195; 1958; 2030; 2678; 2742; 3017
BmsI	!NNNNNNNNNGATGC	5	541; 2337; 2592; 2808; 4200
BmtI	GCTAG!C	1	118
BmuI	ACTGGGNNNNN!	1	2328
BmuI	!NNNNCCCAGT	1	2080
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNCTCNNNNNNNNNNNNNN!	2	2168; 3067
BpI	!NNNNNNNNCTGAGNNNNNNCTC	2	2136; 3035
BpmI	CTGGAGNNNNNNNNNNNNNNNNNN!	1	3219
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	1	3162
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	150; 3061
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNNNN!	2	3673; 4212
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	3	127; 2755; 3914
BpuMI	CC!SGG	6	180; 181; 2383; 2543; 3156; 3920
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3368
Bsa29I	AT!CGAT	1	2219
BsaAI	YAC!GTR	3	843; 1495; 2683
BsaBI	GATNN!NNATC	2	1041; 2238
BsaHI	GR!CGYC	3	2379; 3081; 3160
BsaJI	C!CNNGG	18	172; 179; 200; 527; 1913; 1985; 2108; 2143; 2152; 2201; 2542; 2811; 3216; 3343; 3344; 3446; 3447; 4137
BsaMI	GAATGCN!	1	1130
BsaMI	G!CATTC	1	1223
BsaWI	W!CCGGW	6	123; 189; 2410; 3254; 3944; 4091
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1459
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	1429
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNNGTGTTG	2	1380; 3287
Bsc4I	CCNNNNN!NNGG	21	319; 432; 598; 664; 746; 869; 1391; 1717; 2109; 2360; 2904; 3185; 3217; 3349; 3384; 3434; 3466; 3819; 4098; 4264; 4282
BscAI	GCATCNNNN!	6	1194; 1957; 2029; 2677; 2741; 3016
BscAI	!NNNNNNNGATGC	5	544; 2340; 2595; 2811; 4203
Bse1I	ACTGGN!	3	2323; 2524; 3770
Bse1I	C!CAGT	5	604; 1408; 2086; 3882; 3895
Bse8I	GATNN!NNATC	2	1041; 2238
Bse21I	CC!TNAGG	2	1859; 3491

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Bse118I	R!CCGGY	5	189; 1596; 2698; 2879; 3162
BseAI	T!CCGGA	0	
BseBI	CC!WGG	12	411; 529; 782; 1915; 1970; 1987; 2766; 3345; 3448; 4138; 4151; 4272
BseCI	AT!CGAT	1	2219
BseDI	C!CNNGG	18	172; 179; 200; 527; 1913; 1985; 2108; 2143; 2152; 2201; 2542; 2811; 3216; 3343; 3344; 3446; 3447; 4137
Bse3DI	GCAATGNN!	2	77; 2612
Bse3DI	!CATTGC	1	971
BseGI	GGATGNN!	5	556; 2239; 2696; 2721; 3175
BseGI	!CATCC	1	2065
BseJI	GATNN!NNATC	2	1041; 2238
BseLI	CCNNNNN!NNGG	21	319; 432; 598; 664; 746; 869; 1391; 1717; 2109; 2360; 2904; 3185; 3217; 3349; 3384; 3434; 3466; 3819; 4098; 4264; 4282
BseMI	GCAATGNN!	2	77; 2612
BseMI	!CATTGC	1	971
BseMII	CTCAGNNNNNNNNNN!	3	143; 445; 3505
BseMII	!NNNNNNNNCTGAG	5	1850; 2152; 3033; 3605; 4014
BseNI	ACTGGN!	3	2323; 2524; 3770
BseNI	C!CAGT	5	604; 1408; 2086; 3882; 3895
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2197
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	4	180; 2325; 2418; 3987
BseXI	GCAGNNNNNNNN!	6	1167; 2452; 2494; 3015; 3468; 3968
BseXI	!NNNNNNNNNNNGCTGC	7	98; 1661; 2326; 2510; 2603; 3669; 3875
BseX3I	C!GGCCG	2	918; 2285
BseYI	C!CCAGC	4	935; 1922; 1994; 3993
BseYI	G!CTGGG	1	2883
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	15	174; 923; 1303; 1679; 1699; 1723; 1754; 2445; 2746; 3184; 3268; 3331; 3400; 3673; 4254
Bsh1285I	CGRY!CG	4	194; 921; 2288; 3963
BshFI	GG!CC	20	178; 694; 920; 1345; 1487; 2142; 2148; 2157; 2200; 2287; 2461; 2852; 2879; 3388; 3445; 3478; 3823; 4257; 4275; 4286
BshNI	G!GYRCC	4	168; 1532; 2378; 2413
BshTI	A!CCGGT	1	189
BshVI	AT!CGAT	1	2219
BsiEI	CGRY!CG	4	194; 921; 2288; 3963
BsiHKAI	GWGCW!C	4	143; 2492; 2682; 3987
BsiHKCI	C!YCGRG	2	136; 179
BsiSI	C!CGG	19	124; 180; 190; 1597; 2284; 2361; 2383; 2411; 2542; 2632; 2699; 2880; 3155; 3163; 3255; 3729; 3919; 3945; 4092
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	21	319; 432; 598; 664; 746; 869; 1391; 1717; 2109; 2360; 2904; 3185; 3217; 3349; 3384; 3434; 3466; 3819; 4098; 4264; 4282
BsIFI	GGGACNNNNNNNNNN!	3	2530; 3062; 3171
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1895; 1967; 2031; 3326
BsmI	GAATGCN!	1	1130
BsmI	G!CATTC	1	1223
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	4	1803; 2221; 3240; 3368
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2530; 3062; 3171
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1895; 1967; 2031; 3326
BsnI	GG!CC	20	178; 694; 920; 1345; 1487; 2142; 2148; 2157; 2200; 2287; 2461; 2852; 2879; 3388; 3445; 3478; 3823; 4257; 4275; 4286
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3368
BsoBI	C!YCGRG	2	136; 179
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	200; 2108; 2811
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	3182
Bsp24I	!NNNNNNCCANNNNNNNGTC	3	882; 3603; 3781

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Bsp24I	CCANNNNNNGTCNNNNNNNNNNNN!	3	914; 3635; 3813
Bsp24I	!NNNNNNNGACNNNNNNNTGG	1	3150
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	150; 3061
Bsp120I	G!GGCCC	1	176
Bsp143I	!GATC	21	132; 183; 682; 722; 1036; 2216; 2220; 2239; 2550; 2628; 2709; 2718; 2796; 3172; 3188; 3547; 3559; 3637; 3645; 3656; 3731
Bsp1286I	GDGCH!C	10	143; 180; 1570; 2325; 2418; 2492; 2682; 2744; 3454; 3987
Bsp1407I	T!GTACA	3	96; 289; 946
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	26	172; 921; 1694; 1697; 1711; 1801; 2049; 2061; 2070; 2082; 2092; 2103; 2149; 2288; 2351; 2853; 2898; 2964; 2990; 3115; 3118; 3266; 3398; 3705; 3849; 4345
BspACI	G!CGG	22	174; 917; 1639; 1666; 1754; 1864; 2445; 2509; 2610; 2613; 2893; 2948; 3046; 3184; 3331; 3471; 3714; 3959; 4080; 4099; 4226; 4254
BspCNI	CTCAGNNNNNNNN!	3	142; 444; 3504
BspCNI	!NNNNNNNCTGAG	5	1851; 2153; 3034; 3606; 4015
BspDI	AT!CGAT	1	2219
BspD6I	GACTCNNNN!	5	135; 933; 1452; 3058; 3935
BspD6I	!NNNNNGAGTC	3	505; 1415; 1847
BspEI	T!CCGGA	0	
BspFNI	CG!CG	15	174; 923; 1303; 1679; 1699; 1723; 1754; 2445; 2746; 3184; 3268; 3331; 3400; 3673; 4254
BspHI	T!CATGA	2	1805; 3577
BspLI	GGN!NCC	19	170; 178; 185; 324; 408; 934; 1534; 1555; 1567; 1758; 1919; 1991; 2380; 2415; 3263; 3342; 3387; 4230; 4269
BspMI	ACCTGCNNNN!	2	2647; 3097
BspMI	!NNNNNNNGCAGGT	1	2266
BspOI	GCTAG!C	1	118
BspPI	GGATCNNNN!	8	191; 2247; 2558; 2804; 3196; 3555; 3653; 3739
BspPI	!NNNNNGATCC	6	178; 677; 2623; 3167; 3554; 3651
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	2723; 2933
BspTI	C!TTAAG	2	697; 1261
BspT104I	TT!CGAA	2	150; 3061
BspT107I	G!GYRCC	4	168; 1532; 2378; 2413
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3368
BsrI	ACTGGN!	3	2323; 2524; 3770
BsrI	C!CAGT	5	604; 1408; 2086; 3882; 3895
BsrBI	CCG!CTC	2	1803; 2992
BsrBI	GAG!CGG	2	1639; 3046
BsrDI	GCAATGNN!	2	77; 2612
BsrDI	!CATTGC	1	971
BsrFI	R!CCGGY	5	189; 1596; 2698; 2879; 3162
BsrGI	T!GTACA	3	96; 289; 946
BsrSI	ACTGGN!	3	2323; 2524; 3770
BsrSI	C!CAGT	5	604; 1408; 2086; 3882; 3895
BssAI	R!CCGGY	5	189; 1596; 2698; 2879; 3162
BssECI	C!CNNGG	18	172; 179; 200; 527; 1913; 1985; 2108; 2143; 2152; 2201; 2542; 2811; 3216; 3343; 3344; 3446; 3447; 4137
BssHII	G!CGCGC	0	
BssKI	!CCNGG	18	178; 179; 409; 527; 780; 1913; 1968; 1985; 2381; 2541; 2764; 3154; 3343; 3446; 3918; 4136; 4149; 4270
BssMI	!GATC	21	132; 183; 682; 722; 1036; 2216; 2220; 2239; 2550; 2628; 2709; 2718; 2796; 3172; 3188; 3547; 3559; 3637; 3645; 3656; 3731
BssNI	GR!CGYC	3	2379; 3081; 3160
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3097; 4124
BssSI	C!TCGTG	1	2971
BssT1I	C!CWWGG	5	200; 2108; 2201; 2811; 3216
Bst6I	CTCTCN!	1	368
Bst6I	!NNNNGAAGAG	4	212; 1846; 2723; 2933
Bst98I	C!TTAAG	2	697; 1261
Bst1107I	GTA!TAC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstACI	GR!CGYC	3	2379; 3081; 3160
BstAFI	C!TTAAG	2	697; 1261
BstAPI	GCANNNN!NTGC	3	1946; 2018; 3480
BstAUI	T!GTACA	3	96; 289; 946
BstBI	TT!CGAA	2	150; 3061
Bst2BI	C!ACGAG	2	3097; 4124
Bst2BI	C!TCGTG	1	2971
BstBAI	YAC!GTR	3	843; 1495; 2683
Bst4CI	ACN!GT	12	168; 267; 458; 508; 1470; 2759; 2875; 2983; 3306; 3797; 4267; 4338
BstC8I	GCN!NGC	28	109; 116; 176; 761; 1598; 1641; 1655; 1928; 1947; 2000; 2019; 2273; 2459; 2678; 2744; 2750; 2782; 2823; 2827; 2881; 3164; 3351; 3398; 3454; 3476; 3687; 4247; 4284
BstDEI	C!TNAG	9	129; 431; 752; 1859; 2161; 3042; 3491; 3614; 4023
BstDSI	C!CRYGG	4	172; 200; 2108; 2811
BstEII	G!GTNACC	1	489
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	5	556; 2239; 2696; 2721; 3175
BstF5I	!CATCC	1	2065
BstFNI	CG!CG	15	174; 923; 1303; 1679; 1699; 1723; 1754; 2445; 2746; 3184; 3268; 3331; 3400; 3673; 4254
BstH2I	RGCGC!Y	5	121; 1646; 1654; 2382; 4057
BstHHI	GCG!C	21	120; 1645; 1653; 1679; 1701; 1710; 1723; 1754; 2373; 2381; 2445; 2482; 2748; 3008; 3184; 3270; 3673; 3782; 3956; 4056; 4123
BstKTI	GAT!C	21	135; 186; 685; 725; 1039; 2219; 2223; 2242; 2553; 2631; 2712; 2721; 2799; 3175; 3191; 3550; 3562; 3640; 3648; 3659; 3734
BstMAI	GTCTCN!	0	
BstMAI	!NNNNNGAGAC	4	1803; 2221; 3240; 3368
BstMBI	!GATC	21	132; 183; 682; 722; 1036; 2216; 2220; 2239; 2550; 2628; 2709; 2718; 2796; 3172; 3188; 3547; 3559; 3637; 3645; 3656; 3731
BstMCI	CGRY!CG	4	194; 921; 2288; 3963
BstMWI	GCNNNNN!NNGC	20	117; 1606; 1636; 1663; 1705; 1946; 2018; 2069; 2148; 2370; 2454; 2477; 2616; 2739; 2822; 3089; 3276; 3480; 3679; 4251
BstNI	CC!WGG	12	411; 529; 782; 1915; 1970; 1987; 2766; 3345; 3448; 4138; 4151; 4272
BstNSI	RCATG!Y	5	240; 1949; 2021; 2784; 4301
BstOI	CC!WGG	12	411; 529; 782; 1915; 1970; 1987; 2766; 3345; 3448; 4138; 4151; 4272
BstPI	G!GTNACC	1	489
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	18	178; 179; 409; 527; 780; 1913; 1968; 1985; 2381; 2541; 2764; 3154; 3343; 3446; 3918; 4136; 4149; 4270
BstSFI	C!TRYAG	4	157; 1714; 3841; 4032
BstSLI	GKGC!C	4	180; 2325; 2418; 3987
BstSNI	TAC!GTA	0	
BstUI	CG!CG	15	174; 923; 1303; 1679; 1699; 1723; 1754; 2445; 2746; 3184; 3268; 3331; 3400; 3673; 4254
Bst2UI	CC!WGG	12	411; 529; 782; 1915; 1970; 1987; 2766; 3345; 3448; 4138; 4151; 4272
BstV1I	GCAGCNNNNNNN!	6	1167; 2452; 2494; 3015; 3468; 3968
BstV1I	!NNNNNNNNNNNGCTGC	7	98; 1661; 2326; 2510; 2603; 3669; 3875
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	10	132; 183; 682; 2550; 2796; 3188; 3547; 3559; 3645; 3656
BstYI	R!GATCY	10	132; 183; 682; 2550; 2796; 3188; 3547; 3559; 3645; 3656
BstZI	C!GGCCG	2	918; 2285
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	1808; 2598; 4099
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2219
Bsu36I	CC!TNAGG	2	1859; 3491
BsuRI	GG!CC	20	178; 694; 920; 1345; 1487; 2142; 2148; 2157; 2200; 2287; 2461; 2852; 2879; 3388; 3445; 3478; 3823; 4257; 4275; 4286
BsuTUI	AT!CGAT	1	2219
BtgI	C!CRYGG	4	172; 200; 2108; 2811

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BtgZI	GCGATGNNNNNNNNNN!	2	1496; 2831
BtgZI	!NNNNNNNNNNNNNNNCATCGC	2	2650; 2994
BthCI	GCNG!C	30	114; 920; 923; 1158; 1677; 1699; 1713; 2151; 2290; 2342; 2353; 2443; 2448; 2485; 2485; 2526; 2613; 2619; 2855; 2951; 2992; 3006; 3120; 3459; 3474; 3685; 3891; 3894; 3959; 4102; 4257
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1218
BtsCI	GGATGNN!	5	556; 2239; 2696; 2721; 3175
BtsCI	!CATCC	1	2065
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	2647; 3097
BveI	!NNNNNNNNNGCAGGT	1	2266
Cac8I	GCN!NGC	28	109; 116; 176; 761; 1598; 1641; 1655; 1928; 1947; 2000; 2019; 2273; 2459; 2678; 2744; 2750; 2782; 2823; 2827; 2881; 3164; 3351; 3398; 3454; 3476; 3687; 4247; 4284
CaiI	CAGNNN!CTG	2	3480; 3888
CciI	T!CATGA	2	1805; 3577
CciNI	GC!GGCCGC	1	918
CdiI	CATC!G	4	2668; 2673; 2871; 3012
CdiI	C!GATG	2	1482; 2817
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4251
CdpI	!NNNNNNNNNNNNNNNNNNNCTCCGC	2	2040; 2082
CelII	GC!TNAGC	0	
CfoI	GCG!C	21	120; 1645; 1653; 1679; 1701; 1710; 1723; 1754; 2373; 2381; 2445; 2482; 2748; 3008; 3184; 3270; 3673; 3782; 3956; 4056; 4123
CfrI	Y!GGCCR	5	918; 2285; 2459; 2850; 2877
Cfr9I	C!CCGGG	1	179
Cfr10I	R!CCGGY	5	189; 1596; 2698; 2879; 3162
Cfr13I	G!GNCC	14	176; 177; 358; 413; 601; 693; 798; 932; 1486; 2895; 3340; 3386; 3444; 3477
Cfr42I	CCGC!GG	1	175
ChaI	GATC!	21	136; 187; 686; 726; 1040; 2220; 2224; 2243; 2554; 2632; 2713; 2722; 2800; 3176; 3192; 3551; 3563; 3641; 3649; 3660; 3735
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	7	225; 304; 915; 2196; 3636; 3736; 3814
CjeI	!NNNNNNNNNACNNNNNNNTGG	5	1863; 1958; 3150; 3700; 4255
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	5	1897; 1992; 3184; 3734; 4289
CjeI	!NNNNNNNNCCANNNNNNGT	7	191; 270; 881; 2162; 3602; 3702; 3780
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	4	553; 915; 3636; 3814
CjePI	!NNNNNNNNGANNNNNNNTGG	3	674; 3150; 3749
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	707; 3183; 3782
CjePI	!NNNNNNNNCCANNNNNNNNTC	4	520; 882; 3603; 3781
Clal	AT!CGAT	1	2219
CpoI	CG!GWCCG	1	2895
CseI	GACGCNNNNN!	2	3089; 3168
CseI	!NNNNNNNNNNNGCGTC	3	1712; 3607; 4185
CsiI	A!CCWGGT	1	1968
CspI	CG!GWCCG	1	2895
Csp6I	G!TAC	6	97; 169; 290; 654; 947; 2684
Csp45I	TT!CGAA	2	150; 3061
CspAI	A!CCGGT	1	189
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	1659; 3268
CstMI	!NNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	20	201; 237; 255; 399; 479; 690; 853; 1806; 1946; 2018; 2109; 2250; 2595; 2781; 2812; 2838; 3194; 3578; 4298; 4349

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviJI	RG!CY	79	10; 111; 141; 147; 178; 312; 637; 694; 702; 759; 894; 920; 939; 1048; 1158; 1325; 1345; 1487; 1568; 1582; 1596; 1877; 1918; 1990; 2113; 2142; 2148; 2157; 2165; 2188; 2200; 2206; 2287; 2304; 2312; 2339; 2364; 2448; 2457; 2461; 2485; 2523; 2599; 2616; 2635; 2698; 2742; 2752; 2769; 2852; 2879; 2883; 2920; 2943; 2959; 3139; 3166; 3227; 3349; 3388; 3445; 3452; 3459; 3478; 3489; 3740; 3769; 3812; 3823; 3888; 3967; 3992; 3997; 4043; 4133; 4231; 4257; 4275; 4286
CviKI-1	RG!CY	79	10; 111; 141; 147; 178; 312; 637; 694; 702; 759; 894; 920; 939; 1048; 1158; 1325; 1345; 1487; 1568; 1582; 1596; 1877; 1918; 1990; 2113; 2142; 2148; 2157; 2165; 2188; 2200; 2206; 2287; 2304; 2312; 2339; 2364; 2448; 2457; 2461; 2485; 2523; 2599; 2616; 2635; 2698; 2742; 2752; 2769; 2852; 2879; 2883; 2920; 2943; 2959; 3139; 3166; 3227; 3349; 3388; 3445; 3452; 3459; 3478; 3489; 3740; 3769; 3812; 3823; 3888; 3967; 3992; 3997; 4043; 4133; 4231; 4257; 4275; 4286
CviQI	G!TAC	6	97; 169; 290; 654; 947; 2684
DdeI	C!TNAG	9	129; 431; 752; 1859; 2161; 3042; 3491; 3614; 4023
DinI	GGC!GCC	1	2380
DpnI	GA!TC	21	134; 185; 684; 724; 1038; 2218; 2222; 2241; 2552; 2630; 2711; 2720; 2798; 3174; 3190; 3549; 3561; 3639; 3647; 3658; 3733
DpnII	!GATC	21	132; 183; 682; 722; 1036; 2216; 2220; 2239; 2550; 2628; 2709; 2718; 2796; 3172; 3188; 3547; 3559; 3637; 3645; 3656; 3731
DraI	TTT!AAA	5	453; 735; 1081; 3523; 3542
DraII	RG!GNCCY	4	358; 413; 932; 3477
DraIII	CACNNN!GTG	1	1495
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	1	3859
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	4	511; 1450; 2406; 4195
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	511; 1450; 2406; 4195
EaeI	Y!GGCCR	5	918; 2285; 2459; 2850; 2877
EagI	C!GGCCG	2	918; 2285
Eam1104I	CTCTCN!	1	368
Eam1104I	!NNNNGAAGAG	4	212; 1846; 2723; 2933
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	1	368
EarI	!NNNNGAAGAG	4	212; 1846; 2723; 2933
EciI	GGCGANNNNNNNNNNNN!	4	1879; 2908; 4095; 4241
EciI	!NNNNNNNNNTCCGCC	3	2050; 2071; 2092
Ecl136II	GAG!CTC	1	141
EclXI	C!GGCCG	2	918; 2285
Eco24I	GRGCY!C	5	143; 180; 1570; 2744; 3454
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	3368
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	7	358; 413; 601; 798; 932; 2895; 3340
Eco47III	AGC!GCT	1	119
Eco52I	C!GGCCG	2	918; 2285
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	488; 933; 2525; 2957
Eco57I	!NNNNNNNNNNNNNNNCTTCAG	1	3755
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	2	1859; 3491
Eco88I	C!YCGRG	2	136; 179
Eco91I	G!GTNACC	1	489
Eco105I	TAC!GTA	0	
Eco130I	C!CWGGG	5	200; 2108; 2201; 2811; 3216
Eco147I	AGG!CCT	1	2200
EcoHI	!CCSGG	6	178; 179; 2381; 2541; 3154; 3918
EcoICRI	GAG!CTC	1	141
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	5	488; 933; 2525; 2957; 3219
Eco57MI	!NNNNNNNNNNNNNNNCTYCAG	2	3162; 3755
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	1	489
Eco0109I	RG!GNCCY	4	358; 413; 932; 3477

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EcoRI	G!AATTC	1	152
EcoRII	!CCWGG	12	409; 527; 780; 1913; 1968; 1985; 2764; 3343; 3446; 4136; 4149; 4270
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	200; 2108; 2201; 2811; 3216
EcoT22I	ATGCA!T	4	242; 1951; 2023; 4354
EcoT38I	GRGCY!C	5	143; 180; 1570; 2744; 3454
Eco53kI	GAG!CTC	1	141
EgeI	GGC!GCC	1	2380
EheI	GGC!GCC	1	2380
ErhI	C!CWWGG	5	200; 2108; 2201; 2811; 3216
EsaBC3I	TC!GA	14	138; 151; 164; 1529; 2220; 2493; 2649; 2673; 2709; 2871; 3062; 3107; 3362; 4200
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	20	204; 240; 258; 402; 482; 693; 856; 1809; 1949; 2021; 2112; 2253; 2598; 2784; 2815; 2841; 3197; 3581; 4301; 4352
Fail	YA!TR	58	83; 202; 238; 242; 244; 252; 256; 315; 334; 382; 400; 404; 428; 480; 561; 610; 691; 746; 794; 803; 854; 963; 1041; 1051; 1117; 1162; 1367; 1795; 1807; 1938; 1947; 2010; 2019; 2043; 2110; 2134; 2251; 2315; 2596; 2621; 2782; 2813; 2839; 2911; 3127; 3195; 3273; 3325; 3486; 3505; 3507; 3579; 3857; 4046; 4162; 4235; 4299; 4350
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	3	91; 992; 2719
FalI	!NNNNNNNNAAGNNNNNCTT	3	59; 960; 2687
FaqI	GGGACNNNNNNNNNN!	3	2530; 3062; 3171
FaqI	!NNNNNNNNNNNNNGTCCC	4	1895; 1967; 2031; 3326
FatI	!CATG	20	200; 236; 254; 398; 478; 689; 852; 1805; 1945; 2017; 2108; 2249; 2594; 2780; 2811; 2837; 3193; 3577; 4297; 4348
FauI	CCCGCNNNN!	5	1701; 2056; 2077; 3273; 3405
FauI	!NNNNNNNGCGGG	6	167; 1632; 2502; 3039; 3177; 3324
FauNDI	CA!TATG	1	242
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	163
FmuI	GGNC!C	14	179; 180; 361; 416; 604; 696; 801; 935; 1489; 2898; 3343; 3389; 3447; 3480
Fnu4HI	GC!NGC	30	112; 918; 921; 1156; 1675; 1697; 1711; 2149; 2288; 2340; 2351; 2441; 2446; 2483; 2524; 2611; 2617; 2853; 2949; 2990; 3004; 3118; 3457; 3472; 3683; 3889; 3892; 3957; 4100; 4255
FokI	GGATGNNNNNNNNN!	5	563; 2246; 2703; 2728; 3182
FokI	!NNNNNNNNNNNNNCATCC	1	2052
FriOI	GRGCY!C	5	143; 180; 1570; 2744; 3454
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2481
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	16	115; 385; 593; 625; 703; 808; 869; 895; 929; 1034; 1228; 1646; 2202; 3217; 3551; 3804
FspEI	CCNNNNNNNNNNNN!	134	24; 58; 102; 137; 185; 200; 292; 326; 340; 374; 423; 439; 454; 479; 507; 540; 568; 604; 670; 699; 753; 773; 794; 814; 876; 899; 934; 948; 1062; 1101; 1115; 1256; 1351; 1375; 1398; 1421; 1439; 1461; 1482; 1501; 1520; 1549; 1570; 1584; 1610; 1698; 1724; 1773; 1814; 1832; 1871; 1887; 1925; 1982; 1997; 2054; 2074; 2088; 2105; 2119; 2156; 2171; 2214; 2297; 2364; 2395; 2415; 2430; 2475; 2489; 2555; 2569; 2588; 2604; 2645; 2665; 2712; 2762; 2778; 2798; 2823; 2843; 2866; 2893; 2911; 2937; 2977; 3003; 3027; 3083; 3097; 3125; 3168; 3189; 3224; 3268; 3356; 3380; 3402; 3422; 3438; 3459; 3473; 3492; 3576; 3596; 3624; 3639; 3673; 3715; 3742; 3757; 3802; 3826; 3840; 3862; 3888; 3908; 3932; 3958; 4006; 4025; 4044; 4070; 4105; 4150; 4180; 4194; 4245; 4259; 4284; 4300; 4321; 4350

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	!NNNNNNNNNNNNNNNGG	116	93; 151; 175; 197; 241; 283; 304; 334; 389; 418; 455; 487; 514; 533; 561; 584; 611; 650; 676; 695; 732; 767; 798; 829; 855; 881; 902; 940; 984; 1050; 1150; 1219; 1249; 1327; 1376; 1398; 1426; 1462; 1507; 1536; 1572; 1591; 1619; 1639; 1702; 1725; 1833; 1865; 1883; 1912; 1955; 1984; 2095; 2124; 2167; 2188; 2216; 2249; 2269; 2294; 2321; 2346; 2368; 2396; 2422; 2443; 2494; 2515; 2533; 2581; 2617; 2673; 2698; 2722; 2751; 2774; 2798; 2824; 2846; 2865; 2890; 2930; 2966; 3031; 3116; 3140; 3169; 3203; 3224; 3244; 3289; 3316; 3335; 3368; 3420; 3451; 3478; 3530; 3628; 3699; 3744; 3805; 3870; 3904; 3930; 3948; 3984; 4054; 4077; 4099; 4123; 4156; 4204; 4239; 4257; 4314
Fsp4HI	GC!NGC	30	112; 918; 921; 1156; 1675; 1697; 1711; 2149; 2288; 2340; 2351; 2441; 2446; 2483; 2524; 2611; 2617; 2853; 2949; 2990; 3004; 3118; 3457; 3472; 3683; 3889; 3892; 3957; 4100; 4255
GdiII	C!GGCCR	2	918; 2285
GdiII	Y!GGCCG	4	918; 2285; 2850; 2877
GlaI	GC!GC	21	119; 1644; 1652; 1678; 1700; 1709; 1722; 1753; 2372; 2380; 2444; 2481; 2747; 3007; 3183; 3269; 3672; 3781; 3955; 4055; 4122
GluI	GC!NGC	30	112; 918; 921; 1156; 1675; 1697; 1711; 2149; 2288; 2340; 2351; 2441; 2446; 2483; 2524; 2611; 2617; 2853; 2949; 2990; 3004; 3118; 3457; 3472; 3683; 3889; 3892; 3957; 4100; 4255
GsaI	CCCAG!C	4	939; 1926; 1998; 3997
GsaI	GCTGG!G	1	2887
GsuI	CTGGAGNNNNNNNNNNNNNN!	1	3219
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3162
HaeI	WGG!CCW	5	2200; 2461; 3823; 4275; 4286
HaeII	RGCGC!Y	5	121; 1646; 1654; 2382; 4057
HaeIII	GG!CC	20	178; 694; 920; 1345; 1487; 2142; 2148; 2157; 2200; 2287; 2461; 2852; 2879; 3388; 3445; 3478; 3823; 4257; 4275; 4286
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	740; 2575
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	706; 2541
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	739; 2574
HaeIV	!NNNNNNNGAYNNNNNRTC	2	708; 2543
HapII	C!CGG	19	124; 180; 190; 1597; 2284; 2361; 2383; 2411; 2542; 2632; 2699; 2880; 3155; 3163; 3255; 3729; 3919; 3945; 4092
HgaI	GACGCNNNNN!	2	3089; 3168
HgaI	!NNNNNNNNNNNGCGTC	3	1712; 3607; 4185
HhaI	GCG!C	21	120; 1645; 1653; 1679; 1701; 1710; 1723; 1754; 2373; 2381; 2445; 2482; 2748; 3008; 3184; 3270; 3673; 3782; 3956; 4056; 4123
Hin1I	GR!CGYC	3	2379; 3081; 3160
Hin1II	CATG!	20	204; 240; 258; 402; 482; 693; 856; 1809; 1949; 2021; 2112; 2253; 2598; 2784; 2815; 2841; 3197; 3581; 4301; 4352
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	739; 2574
Hin4I	!NNNNNNNNGABNNNNNRTC	3	707; 2542; 2572
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	739; 2574; 2604
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	707; 2542
Hin6I	G!CGC	21	118; 1643; 1651; 1677; 1699; 1708; 1721; 1752; 2371; 2379; 2443; 2480; 2746; 3006; 3182; 3268; 3671; 3780; 3954; 4054; 4121
HinP1I	G!CGC	21	118; 1643; 1651; 1677; 1699; 1708; 1721; 1752; 2371; 2379; 2443; 2480; 2746; 3006; 3182; 3268; 3671; 3780; 3954; 4054; 4121
HincII	GTY!RAC	2	164; 1142
HindII	GTY!RAC	2	164; 1142
HindIII	A!AGCTT	1	145
HinfI	G!ANTC	16	127; 338; 437; 512; 768; 925; 1422; 1444; 1854; 2864; 2998; 3050; 3108; 3145; 3927; 4323
HpaI	GTT!AAC	1	1142
HpaII	C!CGG	19	124; 180; 190; 1597; 2284; 2361; 2383; 2411; 2542; 2632; 2699; 2880; 3155; 3163; 3255; 3729; 3919; 3945; 4092
HphI	GGTGANNNNNNNN!	4	216; 313; 3450; 3566
HphI	!NNNNNNNTACC	3	268; 1496; 2557
Hpy8I	GTN!NAC	10	164; 290; 715; 789; 798; 1142; 1426; 1443; 1498; 3985
Hpy99I	CGWCG!	10	168; 667; 868; 2469; 2497; 2791; 2806; 3083; 3468; 4201
Hpy166II	GTN!NAC	10	164; 290; 715; 789; 798; 1142; 1426; 1443; 1498; 3985

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hpy188I	TCN!GA	14	132; 297; 687; 709; 1553; 2162; 2346; 2690; 3043; 3144; 3623; 3757; 4110; 4188
Hpy188III	TC!NNGA	22	136; 466; 516; 1806; 1858; 2171; 2224; 2397; 2713; 2722; 2805; 2861; 2905; 2995; 3028; 3097; 3578; 3652; 3735; 3833; 3931; 4065
HpyAV	CCTTCNNNNNN!	5	426; 896; 3024; 3131; 3810
HpyAV	!NNNNNGAAGG	9	463; 670; 1612; 2507; 3236; 3252; 3435; 3752; 4062
HpyCH4III	ACN!GT	12	168; 267; 458; 508; 1470; 2759; 2875; 2983; 3306; 3797; 4267; 4338
HpyCH4IV	A!CGT	9	842; 1439; 1451; 1494; 1604; 2495; 2682; 3463; 3596
HpyCH4V	TG!CA	21	55; 159; 240; 612; 991; 1128; 1155; 1223; 1940; 1949; 2012; 2021; 2136; 2212; 2271; 2430; 2605; 2619; 3689; 3985; 4352
HpyF3I	C!TNAG	9	129; 431; 752; 1859; 2161; 3042; 3491; 3614; 4023
HpyF10VI	GCNNNNN!NNGC	20	117; 1606; 1636; 1663; 1705; 1946; 2018; 2069; 2148; 2370; 2454; 2477; 2616; 2739; 2822; 3089; 3276; 3480; 3679; 4251
Hsp92I	GR!CGYC	3	2379; 3081; 3160
Hsp92II	CATG!	20	204; 240; 258; 402; 482; 693; 856; 1809; 1949; 2021; 2112; 2253; 2598; 2784; 2815; 2841; 3197; 3581; 4301; 4352
HspAI	G!CGC	21	118; 1643; 1651; 1677; 1699; 1708; 1721; 1752; 2371; 2379; 2443; 2480; 2746; 3006; 3182; 3268; 3671; 3780; 3954; 4054; 4121
KasI	G!GCGCC	1	2378
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	172
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	175
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1142
Kzo9I	!GATC	21	132; 183; 682; 722; 1036; 2216; 2220; 2239; 2550; 2628; 2709; 2718; 2796; 3172; 3188; 3547; 3559; 3637; 3645; 3656; 3731
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	2723; 2933
LpnI	RG!GCGY	5	119; 1644; 1652; 2380; 4055
LpnPI	CCDGNNNNNNNNNN!	56	58; 137; 193; 423; 455; 479; 541; 617; 671; 773; 794; 949; 1116; 1421; 1610; 1833; 1871; 1887; 1927; 1982; 1999; 2099; 2184; 2297; 2374; 2396; 2419; 2555; 2569; 2588; 2645; 2712; 2762; 2778; 2835; 2893; 3102; 3168; 3192; 3268; 3357; 3460; 3493; 3724; 3742; 3888; 3908; 3932; 3958; 4007; 4105; 4150; 4180; 4259; 4284; 4321
LpnPI	!NNNNNNNNNNNNNCHGG	48	93; 165; 396; 418; 514; 767; 984; 1462; 1582; 1639; 1702; 1900; 1912; 1972; 1984; 2216; 2261; 2304; 2346; 2368; 2396; 2443; 2505; 2527; 2617; 2684; 2707; 2751; 2846; 2865; 2890; 3039; 3140; 3183; 3240; 3330; 3433; 3460; 3478; 3714; 3751; 3904; 3930; 4070; 4088; 4123; 4204; 4257
Lsp1109I	GCAGCNNNNNNNN!	6	1167; 2452; 2494; 3015; 3468; 3968
Lsp1109I	!NNNNNNNNNNNGCTGC	7	98; 1661; 2326; 2510; 2603; 3669; 3875
LweI	GCATCNNNNN!	6	1195; 1958; 2030; 2678; 2742; 3017
LweI	!NNNNNNNNNGATGC	5	541; 2337; 2592; 2808; 4200
MabI	A!CCWGGT	1	1968
MaeI	C!TAG	16	115; 385; 593; 625; 703; 808; 869; 895; 929; 1034; 1228; 1646; 2202; 3217; 3551; 3804
MaeII	A!CGT	9	842; 1439; 1451; 1494; 1604; 2495; 2682; 3463; 3596
MaeIII	!GTNAC	15	40; 489; 595; 727; 898; 1001; 1167; 1668; 1680; 2499; 2805; 3495; 3761; 3877; 3940
MalI	GA!TC	21	134; 185; 684; 724; 1038; 2218; 2222; 2241; 2552; 2630; 2711; 2720; 2798; 3174; 3190; 3549; 3561; 3639; 3647; 3658; 3733
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1803; 2992
MbiI	GAG!CGG	2	1639; 3046
MboI	!GATC	21	132; 183; 682; 722; 1036; 2216; 2220; 2239; 2550; 2628; 2709; 2718; 2796; 3172; 3188; 3547; 3559; 3637; 3645; 3656; 3731
MboII	GAAGANNNNNNNN!	7	229; 627; 1635; 1863; 2740; 2950; 3569
MboII	!NNNNNNNTCTTC	5	355; 3030; 3197; 3397; 3640
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1129
MflI	R!GATCY	10	132; 183; 682; 2550; 2796; 3188; 3547; 3559; 3645; 3656

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MhII	GDGCH!C	10	143; 180; 1570; 2325; 2418; 2492; 2682; 2744; 3454; 3987
MIsI	TGG!CCA	1	2461
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2461
MlyI	GAGTCNNNNN!	3	521; 1431; 1863
MlyI	!NNNNNGACTC	5	121; 919; 1438; 3044; 3921
Mly113I	GG!CGCC	1	2379
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	710; 1472
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	3	687; 3904; 4088
MnII	CCTCNNNNNNN!	8	371; 1098; 2162; 2980; 3186; 3500; 3870; 4194
MnII	!NNNNNGAGG	21	252; 291; 312; 345; 479; 495; 661; 703; 849; 1058; 1523; 1854; 2132; 2175; 2190; 2230; 2294; 2430; 2787; 3217; 4120
Mph1103I	ATGCA!T	4	242; 1951; 2023; 4354
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	1596; 2879; 3162
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	1	2461
MseI	T!TAA	20	227; 284; 422; 452; 698; 734; 1080; 1141; 1262; 1283; 1294; 1306; 1317; 1334; 1334; 1432; 1703; 3522; 3536; 3541; 3593
MslI	CAYNN!NNRTG	3	202; 241; 2816
MspI	C!CGG	19	124; 180; 190; 1597; 2284; 2361; 2383; 2411; 2542; 2632; 2699; 2880; 3155; 3163; 3255; 3729; 3919; 3945; 4092
Msp20I	TGG!CCA	1	2461
MspA1I	CMG!CKG	5	174; 1877; 2485; 3714; 3959
MspCI	C!TTAAG	2	697; 1261
MspJI	CNNRRNNNNNNNNN!	217	24; 47; 71; 101; 120; 136; 150; 163; 185; 202; 249; 267; 308; 326; 339; 354; 397; 411; 439; 454; 478; 491; 509; 528; 541; 556; 604; 625; 650; 670; 698; 715; 732; 753; 772; 793; 814; 839; 855; 881; 894; 907; 924; 941; 956; 989; 1007; 1026; 1046; 1062; 1086; 1103; 1116; 1157; 1171; 1184; 1202; 1240; 1255; 1273; 1314; 1338; 1358; 1376; 1397; 1420; 1452; 1467; 1489; 1507; 1520; 1541; 1558; 1571; 1584; 1600; 1613; 1643; 1658; 1683; 1701; 1714; 1729; 1753; 1767; 1791; 1816; 1832; 1870; 1886; 1925; 1939; 1953; 1981; 1997; 2011; 2025; 2054; 2067; 2088; 2097; 2119; 2149; 2165; 2183; 2213; 2236; 2260; 2284; 2303; 2331; 2357; 2373; 2386; 2409; 2423; 2443; 2456; 2470; 2489; 2503; 2516; 2532; 2547; 2560; 2576; 2591; 2607; 2632; 2651; 2667; 2680; 2693; 2711; 2725; 2739; 2755; 2777; 2793; 2812; 2834; 2850; 2873; 2892; 2906; 2922; 2936; 2956; 2972; 2985; 3007; 3040; 3054; 3074; 3087; 3101; 3155; 3168; 3191; 3204; 3223; 3240; 3267; 3303; 3336; 3355; 3380; 3401; 3428; 3441; 3458; 3472; 3487; 3503; 3563; 3588; 3604; 3626; 3639; 3653; 3684; 3698; 3723; 3741; 3756; 3769; 3788; 3801; 3816; 3845; 3864; 3882; 3907; 3922; 3941; 3957; 3976; 3994; 4010; 4024; 4043; 4070; 4093; 4115; 4134; 4149; 4162; 4179; 4199; 4226; 4239; 4258; 4283; 4306; 4320; 4333; 4350
MspJI	!NNNNNNNNNNNNNYNG	180	16; 35; 53; 80; 101; 122; 142; 159; 176; 223; 241; 271; 289; 319; 356; 378; 396; 418; 452; 485; 502; 530; 553; 579; 611; 644; 671; 689; 706; 733; 767; 794; 827; 855; 877; 908; 930; 950; 971; 995; 1016; 1045; 1089; 1131; 1214; 1249; 1276; 1299; 1328; 1372; 1394; 1426; 1462; 1479; 1500; 1537; 1557; 1574; 1591; 1626; 1644; 1662; 1679; 1703; 1725; 1752; 1780; 1806; 1844; 1865; 1882; 1900; 1923; 1944; 1972; 1995; 2016; 2034; 2055; 2072; 2095; 2119; 2139; 2157; 2179; 2210; 2232; 2258; 2277; 2294; 2322; 2341; 2360; 2378; 2396; 2417; 2439; 2463; 2496; 2516; 2534; 2555; 2581; 2608; 2625; 2642; 2659; 2685; 2707; 2729; 2747; 2767; 2786; 2808; 2846; 2866; 2890; 2910; 2930; 2957; 2981; 3014; 3033; 3061; 3083; 3112; 3140; 3165; 3184; 3203; 3224; 3241; 3258; 3289; 3316; 3336; 3359; 3379; 3416; 3433; 3452; 3478; 3498; 3537; 3564; 3583; 3601; 3638; 3656; 3697; 3715; 3741; 3758; 3790; 3819; 3847; 3868; 3891; 3910; 3931; 3949; 3966; 3984; 4010; 4031; 4051; 4071; 4089; 4110; 4136; 4153; 4172; 4191; 4220; 4239; 4257; 4276; 4294; 4312; 4335
MspR9I	CC!NGG	18	180; 181; 411; 529; 782; 1915; 1970; 1987; 2383; 2543; 2766; 3156; 3345; 3448; 3920; 4138; 4151; 4272
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1129

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MvaI	CC!WGG	12	411; 529; 782; 1915; 1970; 1987; 2766; 3345; 3448; 4138; 4151; 4272
Mva1269I	GAATGCN!	1	1130
Mva1269I	G!CATTC	1	1223
MvnI	CG!CG	15	174; 923; 1303; 1679; 1699; 1723; 1754; 2445; 2746; 3184; 3268; 3331; 3400; 3673; 4254
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	20	117; 1606; 1636; 1663; 1705; 1946; 2018; 2069; 2148; 2370; 2454; 2477; 2616; 2739; 2822; 3089; 3276; 3480; 3679; 4251
NaeI	GCC!GGC	3	1598; 2881; 3164
NarI	GG!CGCC	1	2379
NciI	CC!SGG	6	180; 181; 2383; 2543; 3156; 3920
NcoI	C!CATGG	3	200; 2108; 2811
NdeI	CA!TATG	1	242
NdeII	!GATC	21	132; 183; 682; 722; 1036; 2216; 2220; 2239; 2550; 2628; 2709; 2718; 2796; 3172; 3188; 3547; 3559; 3637; 3645; 3656; 3731
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	3	1596; 2879; 3162
NheI	G!CTAGC	1	114
NlaII	CATG!	20	204; 240; 258; 402; 482; 693; 856; 1809; 1949; 2021; 2112; 2253; 2598; 2784; 2815; 2841; 3197; 3581; 4301; 4352
NlaIV	GGN!NCC	19	170; 178; 185; 324; 408; 934; 1534; 1555; 1567; 1758; 1919; 1991; 2380; 2415; 3263; 3342; 3387; 4230; 4269
NlaCI	CATCACNNNNNNNNNNNNNNNNNNN!	3	1211; 1526; 3118
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	1	4190
Nli3877I	CYCGR!G	2	140; 183
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNNN!	2	2168; 2604
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2133
NmeDI	RCCGGYNNNNNNN!	5	201; 1608; 2710; 2891; 3174
NmeDI	!NNNNNNNNNNNNRCCGGY	5	176; 1583; 2685; 2866; 3149
NmuCI	!GTSAC	6	40; 898; 1001; 1668; 2499; 2805
NotI	GC!GGCCGC	1	918
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2481
NsiI	ATGCA!T	4	242; 1951; 2023; 4354
NspI	RCATG!Y	5	240; 1949; 2021; 2784; 4301
NspV	TT!CGAA	2	150; 3061
OliI	CACNN!NNGTG	1	202
PabI	GTA!C	6	99; 171; 292; 656; 949; 2686
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	1949; 2021; 2784
PaeR7I	C!TCGAG	1	136
PagI	T!CATGA	2	1805; 3577
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3344; 3447
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2200
PciI	A!CATGT	1	4297
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	2723; 2933
PcsI	WCGNNNN!NNNCGW	6	2673; 2750; 2993; 3067; 3460; 3978
PctI	GAATGCN!	1	1130
PctI	G!CATTC	1	1223
PdiI	GCC!GGC	3	1598; 2881; 3164
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	8	338; 437; 768; 2864; 2998; 3108; 3145; 4323
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2497
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	2	409; 3154
PhoI	GG!CC	20	178; 694; 920; 1345; 1487; 2142; 2148; 2157; 2200; 2287; 2461; 2852; 2879; 3388; 3445; 3478; 3823; 4257; 4275; 4286
PinAI	A!CCGGT	1	189

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	2	319; 2760
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	2325; 2580
PleI	GAGTCNNNN!	3	520; 1430; 1862
PleI	!NNNNNGACTC	5	121; 919; 1438; 3044; 3921
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	1461
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3591
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	1	3623
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1429
PpsI	GAGTCNNNN!	3	520; 1430; 1862
PpsI	!NNNNNGACTC	5	121; 919; 1438; 3044; 3921
Ppu10I	A!TGCAT	4	238; 1947; 2019; 4350
Ppu21I	YAC!GTR	3	843; 1495; 2683
PpuMI	RG!GWCCY	3	358; 413; 932
PscI	A!CATGT	1	4297
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	4	83; 963; 1162; 1367
Psp03I	GGWC!C	7	361; 416; 604; 801; 935; 2898; 3343
Psp5II	RG!GWCCY	3	358; 413; 932
Psp6I	!CCWGG	12	409; 527; 780; 1913; 1968; 1985; 2764; 3343; 3446; 4136; 4149; 4270
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	143
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	1	489
PspGI	!CCWGG	12	409; 527; 780; 1913; 1968; 1985; 2764; 3343; 3446; 4136; 4149; 4270
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	19	170; 178; 185; 324; 408; 934; 1534; 1555; 1567; 1758; 1919; 1991; 2380; 2415; 3263; 3342; 3387; 4230; 4269
PspOMI	G!GGCCC	1	176
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	2	2109; 3108
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2511
PspPI	G!GNCC	14	176; 177; 358; 413; 601; 693; 798; 932; 1486; 2895; 3340; 3386; 3444; 3477
PspPPI	RG!GWCCY	3	358; 413; 932
PspPRI	CCYACAGNNNNNNNNNNNNNNNN!	3	1932; 2004; 3510
PspPRI	!NNNNNNNNNNNNNNNNNNCTGRGG	2	1845; 3040
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	4	361; 416; 935; 3480
PstI	CTGCA!G	1	161
PstNI	CAGNNN!CTG	2	3480; 3888
PsuI	R!GATCY	10	132; 183; 682; 2550; 2796; 3188; 3547; 3559; 3645; 3656
Psyl	GACN!NNGTC	1	2497
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	1877; 2485
RcaI	T!CATGA	2	1805; 3577
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	2894
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNNN!	1	1108
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	1	527

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	98; 170; 291; 655; 948; 2685
RsaNI	G!TAC	6	97; 169; 290; 654; 947; 2684
RseI	CAYNN!NNRTG	3	202; 241; 2816
RsrII	CG!GWCCG	1	2895
Rsr2I	CG!GWCCG	1	2895
SacI	GAGCT!C	1	143
SacII	CCGC!GG	1	175
SalI	G!TCGAC	1	162
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	2723; 2933
SaqAI	T!TAA	20	227; 284; 422; 452; 698; 734; 1080; 1141; 1262; 1283; 1294; 1306; 1317; 1334; 1432; 1703; 3522; 3536; 3541; 3593
SatI	GC!NGC	30	112; 918; 921; 1156; 1675; 1697; 1711; 2149; 2288; 2340; 2351; 2441; 2446; 2483; 2524; 2611; 2617; 2853; 2949; 2990; 3004; 3118; 3457; 3472; 3683; 3889; 3892; 3957; 4100; 4255
Sau96I	G!GNCC	14	176; 177; 358; 413; 601; 693; 798; 932; 1486; 2895; 3340; 3386; 3444; 3477
Sau3AI	!GATC	21	132; 183; 682; 722; 1036; 2216; 2220; 2239; 2550; 2628; 2709; 2718; 2796; 3172; 3188; 3547; 3559; 3637; 3645; 3656; 3731
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	521; 1431; 1863
SchI	!NNNNNGACTC	5	121; 919; 1438; 3044; 3921
SciI	CTC!GAG	1	138
ScrFI	CC!NGG	18	180; 181; 411; 529; 782; 1915; 1970; 1987; 2383; 2543; 2766; 3156; 3345; 3448; 3920; 4138; 4151; 4272
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	639; 1957; 2029; 2198; 4140
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2534; 3019
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	10	143; 180; 1570; 2325; 2418; 2492; 2682; 2744; 3454; 3987
SelI	!CGCG	15	172; 921; 1301; 1677; 1697; 1721; 1752; 2443; 2744; 3182; 3266; 3329; 3398; 3671; 4252
SetI	ASST!	62	47; 143; 149; 216; 360; 418; 474; 630; 639; 672; 681; 704; 714; 751; 845; 860; 874; 888; 896; 900; 941; 1003; 1069; 1090; 1099; 1111; 1160; 1327; 1442; 1454; 1497; 1534; 1584; 1607; 1731; 1879; 1974; 2167; 2280; 2408; 2487; 2498; 2570; 2641; 2685; 2945; 3091; 3135; 3466; 3497; 3556; 3599; 3742; 3763; 3862; 3999; 4014; 4033; 4045; 4089; 4135; 4186
SexAI	A!CCWGGT	1	1968
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	6	1195; 1958; 2030; 2678; 2742; 3017
SfaNI	!NNNNNNNNNGATGC	5	541; 2337; 2592; 2808; 4200
SfcI	C!TRYAG	4	157; 1714; 3841; 4032
SfiI	GGCCNNNN!NGGCC	1	2154
SfoI	GCC!GCC	1	2380
Sfr274I	C!TCGAG	1	136
Sfr303I	CCGC!GG	1	175
SfuI	TT!CGAA	2	150; 3061

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNN!	168	6; 57; 120; 136; 150; 185; 202; 249; 267; 330; 397; 411; 445; 478; 491; 513; 528; 541; 556; 605; 637; 670; 702; 715; 732; 772; 793; 820; 855; 881; 903; 934; 948; 1011; 1046; 1086; 1115; 1157; 1240; 1314; 1398; 1420; 1452; 1489; 1507; 1526; 1541; 1583; 1600; 1617; 1652; 1666; 1683; 1705; 1729; 1753; 1818; 1832; 1870; 1886; 1926; 1939; 1958; 1981; 1998; 2011; 2030; 2060; 2081; 2098; 2121; 2156; 2183; 2214; 2236; 2262; 2284; 2303; 2331; 2367; 2386; 2409; 2423; 2443; 2456; 2470; 2489; 2503; 2522; 2554; 2568; 2581; 2607; 2638; 2651; 2668; 2685; 2699; 2716; 2734; 2749; 2777; 2793; 2812; 2834; 2850; 2873; 2892; 2917; 2936; 2956; 2983; 3007; 3040; 3059; 3087; 3101; 3167; 3191; 3206; 3229; 3250; 3267; 3315; 3342; 3356; 3385; 3409; 3442; 3459; 3479; 3492; 3505; 3563; 3590; 3609; 3639; 3664; 3684; 3698; 3723; 3741; 3778; 3816; 3845; 3873; 3887; 3907; 3922; 3943; 3957; 3976; 3994; 4010; 4050; 4070; 4097; 4115; 4136; 4149; 4162; 4179; 4203; 4226; 4258; 4283; 4310; 4332
SgeI	!NNNNNNNNNNNNCNG	146	31; 94; 122; 159; 176; 223; 241; 304; 371; 396; 419; 452; 487; 514; 579; 611; 644; 676; 706; 746; 767; 794; 829; 855; 877; 908; 930; 985; 1020; 1060; 1089; 1131; 1214; 1288; 1372; 1394; 1426; 1463; 1481; 1500; 1557; 1574; 1591; 1626; 1644; 1664; 1684; 1703; 1727; 1792; 1844; 1900; 1932; 1955; 1972; 2004; 2034; 2055; 2072; 2095; 2130; 2157; 2188; 2210; 2236; 2258; 2277; 2305; 2341; 2360; 2383; 2404; 2422; 2439; 2463; 2496; 2528; 2555; 2581; 2612; 2642; 2659; 2685; 2708; 2729; 2751; 2771; 2791; 2808; 2847; 2866; 2891; 2910; 2930; 2957; 2981; 3014; 3033; 3061; 3083; 3141; 3165; 3184; 3203; 3224; 3241; 3289; 3316; 3336; 3359; 3383; 3416; 3433; 3453; 3479; 3537; 3564; 3583; 3613; 3638; 3658; 3697; 3715; 3752; 3790; 3819; 3847; 3868; 3896; 3917; 3950; 3968; 4024; 4044; 4071; 4089; 4110; 4136; 4153; 4177; 4200; 4232; 4257; 4284; 4306; 4335
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	175
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1526; 3313; 4106
SimI	!GACCC	4	932; 2807; 3375; 3623
SinI	G!GWCC	7	358; 413; 601; 798; 932; 2895; 3340
SlaI	C!TCGAG	1	136
SmaI	CCC!GGG	1	181
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	3	202; 241; 2816
SmlI	C!TYRAG	8	136; 142; 697; 1261; 2770; 3652; 3929; 4191
SmoI	C!TYRAG	8	136; 142; 697; 1261; 2770; 3652; 3929; 4191
SmuI	CCCGCNNNN!	5	1701; 2056; 2077; 3273; 3405
SmuI	!NNNNNNGCGGG	6	167; 1632; 2502; 3039; 3177; 3324
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	1949; 2021; 2784
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	15	60; 152; 572; 585; 904; 982; 1129; 1193; 1271; 1297; 1308; 1955; 2027; 2119; 3537
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	2	358; 413
SseBI	AGG!CCT	1	2200
SsiI	C!CGC	26	172; 921; 1694; 1697; 1711; 1801; 2049; 2061; 2070; 2082; 2092; 2103; 2149; 2288; 2351; 2853; 2898; 2964; 2990; 3115; 3118; 3266; 3398; 3705; 3849; 4345
SsiI	G!CGG	22	174; 917; 1639; 1666; 1754; 1864; 2445; 2509; 2610; 2613; 2893; 2948; 3046; 3184; 3331; 3471; 3714; 3959; 4080; 4099; 4226; 4254
SspI	AAT!ATT	2	1287; 1840
SspDI	G!GCGCC	1	2378
SspD5I	GGTGANNNNNNN!	4	216; 313; 3450; 3566
SspD5I	!NNNNNNNNTCACC	3	267; 1495; 2556
SstI	GAGCT!C	1	143
SstII	CCGC!GG	1	175

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	13	186; 1578; 1700; 2055; 2076; 2389; 2792; 2931; 3002; 3272; 3404; 3634; 4072
Sth132I	!NNNNNNNNCCGGG	16	166; 1579; 1631; 1732; 2459; 2501; 2534; 3038; 3147; 3176; 3323; 3427; 3458; 3911; 3955; 4163
Sth302II	CC!GG	19	125; 181; 191; 1598; 2285; 2362; 2384; 2412; 2543; 2633; 2700; 2881; 3156; 3164; 3256; 3730; 3920; 3946; 4093
StrI	C!TCGAG	1	136
StsI	GGATGNNNNNNNNNN!	5	564; 2247; 2704; 2729; 3183
StsI	!NNNNNNNNNNNNNNNNCATCC	1	2051
StuI	AGG!CCT	1	2200
StyI	C!CWGGG	5	200; 2108; 2201; 2811; 3216
StyD4I	!CCNGG	18	178; 179; 409; 527; 780; 1913; 1968; 1985; 2381; 2541; 2764; 3154; 3343; 3446; 3918; 4136; 4149; 4270
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	12	168; 267; 458; 508; 1470; 2759; 2875; 2983; 3306; 3797; 4267; 4338
TaiI	ACGT!	9	845; 1442; 1454; 1497; 1607; 2498; 2685; 3466; 3599
TaqI	T!CGA	14	137; 150; 163; 1528; 2219; 2492; 2648; 2672; 2708; 2870; 3061; 3106; 3361; 4199
TaqII	GACCGANNNNNNNNNN!	3	1399; 2416; 3084
TaqII	!NNNNNNNNNTCGGTC	1	3328
TaqII	CACCCANNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	2	2283; 2875
TasI	!AATT	15	60; 152; 572; 585; 904; 982; 1129; 1193; 1271; 1297; 1308; 1955; 2027; 2119; 3537
TatI	W!GTACW	3	96; 289; 946
TauI	GCSG!C	17	920; 923; 1699; 1713; 2151; 2290; 2353; 2448; 2613; 2616; 2855; 2951; 2992; 3120; 3474; 4102; 4257
TfiI	G!AWTC	8	338; 437; 768; 2864; 2998; 3108; 3145; 4323
TliI	C!TCGAG	1	136
Tru1I	T!TAA	20	227; 284; 422; 452; 698; 734; 1080; 1141; 1262; 1283; 1294; 1306; 1317; 1334; 1432; 1703; 3522; 3536; 3541; 3593
Tru9I	T!TAA	20	227; 284; 422; 452; 698; 734; 1080; 1141; 1262; 1283; 1294; 1306; 1317; 1334; 1432; 1703; 3522; 3536; 3541; 3593
TscAI	CASTGNN!	5	1225; 2508; 3618; 3889; 3902
TseI	G!CWGC	14	111; 1155; 1674; 2339; 2440; 2482; 2523; 2616; 3003; 3456; 3682; 3888; 3891; 3956
TsoI	TARCCANNNNNNNNNN!	3	439; 1351; 1698
TsoI	!NNNNNNNNNTGGYTA	2	1156; 2908
Tsp45I	!GTSAC	6	40; 898; 1001; 1668; 2499; 2805
Tsp509I	!AATT	15	60; 152; 572; 585; 904; 982; 1129; 1193; 1271; 1297; 1308; 1955; 2027; 2119; 3537
TspDTI	ATGAANNNNNNNNNN!	4	259; 1137; 2438; 3142
TspDTI	!NNNNNNNNNTTCAT	6	387; 408; 527; 2856; 3312; 3519
TspEI	!AATT	15	60; 152; 572; 585; 904; 982; 1129; 1193; 1271; 1297; 1308; 1955; 2027; 2119; 3537
TspGWI	ACGGANNNNNNNNNN!	3	614; 680; 3254
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	179
TspRI	CASTGNN!	5	1225; 2508; 3618; 3889; 3902
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2497
Tth111II	CAARCANNNNNNNNNN!	1	3706
Tth111III	!NNNNNNNNNTGYTTG	3	2814; 3674; 3713
UnbI	!GGNCC	14	175; 176; 357; 412; 600; 692; 797; 931; 1485; 2894; 3339; 3385; 3443; 3476
Van91I	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	2	697; 1261
VneI	G!TGCAC	1	3983
VpaK11AI	!GGWCC	7	357; 412; 600; 797; 931; 2894; 3339
VpaK11BI	G!GWCC	7	358; 413; 601; 798; 932; 2895; 3340

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	5	152; 585; 1193; 1297; 1308
XbaI	T!CTAGA	0	
XceI	RCATG!Y	5	240; 1949; 2021; 2784; 4301
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	136
XhoII	R!GATCY	10	132; 183; 682; 2550; 2796; 3188; 3547; 3559; 3645; 3656
XmaI	C!CCGGG	1	179
XmaJI	C!CTAGG	2	2201; 3216
XmiI	GT!MKAC	1	163
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	16	115; 385; 593; 625; 703; 808; 869; 895; 929; 1034; 1228; 1646; 2202; 3217; 3551; 3804
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	4	242; 1951; 2023; 4354