

pJRed-C vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1547; 1752
AarI	CACCTGCNNNN!	1	979
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1835; 2791; 4580
AatI	AGG!CCT	1	2585
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1379
AccII	CG!CG	20	60; 1034; 1187; 1259; 1277; 1390; 1652; 1688; 2064; 2084; 2108; 2139; 2830; 3131; 3569; 3653; 3716; 3785; 4058; 4639
AccIII	T!CCGGA	1	1339
Acc16I	TGC!GCA	1	2866
Acc36I	ACCTGCNNNN!	3	979; 3032; 3482
Acc36I	!NNNNNNNNGCAGGT	1	2651
Acc65I	G!GTACC	1	1384
AccB1I	G!GYRCC	7	465; 931; 967; 1384; 1917; 2763; 2798
AccB7I	CCANNNN!NTGG	2	794; 1044
AccBSI	CCG!CTC	2	2188; 3377
AccBSI	GAG!CGG	2	2024; 3431
AceIII	CAGCTCNNNNNNN!	1	1720
AceIII	!NNNNNNNNNNNGAGCTG	3	552; 780; 946
AciI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 641; 843; 906; 984; 1127; 1185; 1305; 1388; 2079; 2082; 2096; 2186; 2434; 2446; 2455; 2467; 2477; 2488; 2534; 2673; 2736; 3238; 3283; 3349; 3375; 3500; 3503; 3651; 3783; 4090; 4234; 4730
AciI	G!CGG	26	370; 403; 528; 635; 1136; 1390; 2024; 2051; 2139; 2249; 2830; 2894; 2995; 2998; 3278; 3333; 3431; 3569; 3716; 3856; 4099; 4344; 4465; 4484; 4611; 4639
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	1407; 1416; 2632; 2943; 3189; 3581; 3940; 4038; 4124
AclWI	!NNNNNGATCC	8	580; 810; 1191; 1394; 3008; 3552; 3939; 4036
AcoI	Y!GGCCR	6	696; 716; 2670; 2844; 3235; 3262
AcsI	R!AATTY	4	1368; 1578; 1682; 1693
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	2	2910; 3342
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4140
AcvI	CAC!GTG	1	1266
AcyI	GR!CGYC	7	122; 175; 258; 444; 2764; 3466; 3545
AdeI	CACNNN!GTG	4	765; 1215; 1299; 1880
AfaI	GT!AC	9	219; 244; 299; 332; 383; 540; 823; 1386; 3070
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	20	49; 794; 1044; 1146; 1278; 1776; 2102; 2494; 2745; 3289; 3570; 3602; 3734; 3769; 3819; 3851; 4204; 4483; 4649; 4667
AfiIII	C!TTAAG	0	
AfiIII	A!CRYGT	4	1070; 1265; 1650; 4682
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	8	669; 753; 1176; 2175; 2219; 2229; 2642; 4218
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	12	88; 281; 872; 2298; 2353; 2370; 3149; 3728; 3831; 4521; 4534; 4655
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	2	712; 973
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2338; 2410
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	2	2304; 2376
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1846
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1814
AluI	AG!CT	19	566; 783; 794; 960; 1041; 1104; 1357; 1363; 1543; 1710; 1967; 2262; 2550; 2870; 3328; 4125; 4382; 4428; 4518
AluBI	AG!CT	19	566; 783; 794; 960; 1041; 1104; 1357; 1363; 1543; 1710; 1967; 2262; 2550; 2870; 3328; 4125; 4382; 4428; 4518
AlwI	GGATCNNNN!	9	1407; 1416; 2632; 2943; 3189; 3581; 3940; 4038; 4124
AlwI	!NNNNNGATCC	8	580; 810; 1191; 1394; 3008; 3552; 3939; 4036
Alw21I	GWGCW!C	5	761; 1359; 2877; 3067; 4372
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	6	766; 1057; 2188; 2606; 3625; 3753
Alw44I	G!TGCAC	2	757; 4368
AlwNI	CAGNN!CTG	2	3865; 4273
Ama87I	C!YCGRG	3	886; 1352; 1395
Aor13HI	T!CCGGA	1	1339
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	1396
ApaBI	GCANNNNN!TGC	3	2332; 2404; 3866
ApaLI	G!TGCAC	2	757; 4368
ApeKI	G!CWGC	17	725; 728; 783; 1181; 1540; 2059; 2724; 2825; 2867; 2908; 3001; 3388; 3841; 4067; 4273; 4276; 4341
ApoI	R!AATTY	4	1368; 1578; 1682; 1693
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	3	704; 926; 3279
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3073; 3726; 4564
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3163
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	803
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2592
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTTCCYC	2	864; 3334
ArsI	GACNNNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	23	586; 816; 1197; 1349; 1400; 1409; 1422; 2602; 2606; 2625; 2936; 3014; 3095; 3104; 3182; 3558; 3574; 3933; 3945; 4023; 4031; 4042; 4117
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2882
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	1384
AspA2I	C!CTAGG	2	2586; 3601
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	28	597; 917; 1034; 1100; 1189; 1259; 1277; 1318; 2030; 2038; 2064; 2086; 2095; 2108; 2139; 2758; 2766; 2830; 2867; 3133; 3393; 3569; 3655; 4058; 4167; 4341; 4441; 4508
AspS9I	G!GNCC	15	83; 276; 637; 891; 1021; 1084; 1149; 1204; 1393; 1871; 3280; 3725; 3771; 3829; 3862
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	1366; 3446
AsuC2I	CC!SGG	7	1202; 1396; 1397; 2768; 2928; 3541; 4305
AsuHPI	GGTGANNNNNNNN!	5	376; 702; 1293; 3835; 3951
AsuHPI	!NNNNNNNNNTCACC	7	699; 981; 1113; 1218; 1302; 1881; 2942
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	3	886; 1352; 1395
AvaII	G!GWCC	2	3280; 3725
AviII	TGC!GCA	1	2866
AvrII	C!CTAGG	2	2586; 3601

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AxyI	CC!TNAGG	2	2244; 3876
BaeI	ACNNNNGTAYCNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	6	761; 1304; 1396; 2710; 2803; 4372
BalI	TGG!CCA	1	2846
BamHI	G!GATCC	1	1399
BanI	G!GYRCC	7	465; 931; 967; 1384; 1917; 2763; 2798
BanII	GRGCY!C	6	833; 1359; 1396; 1955; 3129; 3839
BanIII	AT!CGAT	1	2604
BarI	GAAGNNNNNTACNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	2	794; 1044
BauI	C!ACGAG	2	3482; 4509
BauI	C!TCGTG	1	3356
BbeI	GGCGC!C	1	2767
Bbr7I	GAAGACNNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	1	1266
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2334; 2406; 3169
BbvI	GCAGCNNNNNNNN!	8	737; 1193; 1552; 2837; 2879; 3400; 3853; 4353
BbvI	!NNNNNNNNNNNGCTGC	7	770; 2046; 2711; 2895; 2988; 4054; 4260
Bbv12I	GWGCW!C	5	761; 1359; 2877; 3067; 4372
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	10	718; 811; 1033; 1198; 1228; 1327; 1894; 2458; 2984; 3486
BccI	!NNNNNGATGG	5	616; 1140; 1862; 2642; 3070
BceAI	ACGGCNNNNNNNNNNNN!	13	699; 738; 759; 840; 870; 945; 981; 1020; 1098; 1149; 1194; 3190; 3677
BceAI	!NNNNNNNNNNNNNGCCGT	5	748; 1078; 1905; 2723; 4182
BceII	ACGGCNNNNNNNNNNNN!	13	699; 738; 759; 840; 870; 945; 981; 1020; 1098; 1149; 1194; 3190; 3677
BceII	!NNNNNNNNNNNNNGCCGT	5	749; 1079; 1906; 2724; 4183
BcgI	CGANNNNNNTGCNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2193; 2983; 4484
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1421
BcnI	CC!SGG	7	1202; 1396; 1397; 2768; 2928; 3541; 4305
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNN!	3	1240; 1444; 4617
BdaI	!NNNNNNNNNTGANNNNNNTCA	3	1206; 1410; 4583
BfaI	C!TAG	8	592; 1412; 1613; 2031; 2587; 3602; 3936; 4189
BfiI	ACTGGGNNNNN!	1	2713
BfiI	!NNNNCCAGT	2	289; 2465
BfmI	C!TRYAG	4	1373; 2099; 4226; 4417
BfoI	RGCGC!Y	6	598; 1319; 2031; 2039; 2767; 4442
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2193; 2983; 4484
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	3	979; 3032; 3482
BfuAI	!NNNNNNNNNGCAGGT	1	2651
BfuCI	!GATC	23	585; 815; 1196; 1348; 1399; 1408; 1421; 2601; 2605; 2624; 2935; 3013; 3094; 3103; 3181; 3557; 3573; 3932; 3944; 4022; 4030; 4041; 4116
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2539
BglII	A!GATCT	1	1348

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BisI	GC!NGC	36	636; 726; 729; 784; 984; 1137; 1182; 1185; 1541; 2060; 2082; 2096; 2534; 2673; 2725; 2736; 2826; 2831; 2868; 2909; 2996; 2999; 3002; 3238; 3334; 3375; 3389; 3503; 3842; 3857; 4068; 4274; 4277; 4342; 4485; 4640
BlnI	C!CTAGG	2	2586; 3601
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	36	637; 727; 730; 785; 985; 1138; 1183; 1186; 1542; 2061; 2083; 2097; 2535; 2674; 2726; 2737; 2827; 2832; 2869; 2910; 2997; 3000; 3003; 3239; 3335; 3376; 3390; 3504; 3843; 3858; 4069; 4275; 4278; 4343; 4486; 4641
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	3280; 3725
Bme1390I	CC!NGG	19	90; 283; 874; 1202; 1396; 1397; 2300; 2355; 2372; 2768; 2928; 3151; 3541; 3730; 3833; 4305; 4523; 4536; 4657
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	3	886; 1352; 1395
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	15	84; 277; 638; 892; 1022; 1085; 1150; 1205; 1394; 1872; 3281; 3726; 3772; 3830; 3863
BmiI	GGN!NCC	23	467; 639; 933; 969; 1023; 1086; 1206; 1386; 1394; 1401; 1919; 1940; 1952; 2143; 2304; 2376; 2765; 2800; 3648; 3727; 3772; 4615; 4654
BmrI	ACTGGGNNNNN!	1	2713
BmrI	!NNNNCCCAGT	2	289; 2465
BmrFI	CC!NGG	19	90; 283; 874; 1202; 1396; 1397; 2300; 2355; 2372; 2768; 2928; 3151; 3541; 3730; 3833; 4305; 4523; 4536; 4657
BmsI	GCATCNNNNN!	10	866; 908; 995; 1316; 1580; 2343; 2415; 3063; 3127; 3402
BmsI	!NNNNNNNNNGATGC	5	357; 2722; 2977; 3193; 4585
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2713
BmuI	!NNNNCCCAGT	2	289; 2465
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2553; 3452
BpI	!NNNNNNNNNGAGNNNNNNCTC	2	2521; 3420
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3604
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3547
Bpu10I	CC!TNAGC	1	895
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1366; 3446
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4058; 4597
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	1343; 3140; 4299
BpuMI	CC!SGG	7	1202; 1396; 1397; 2768; 2928; 3541; 4305
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	766; 1057; 3753
Bsa29I	AT!CGAT	1	2604
BsaAI	YAC!GTR	4	340; 1266; 1880; 3068
BsaBI	GATNN!NNATC	2	1426; 2623
BsaHI	GR!CGYC	7	122; 175; 258; 444; 2764; 3466; 3545
BsaI	C!CNNGG	23	360; 611; 741; 872; 887; 1080; 1200; 1388; 1395; 2298; 2370; 2493; 2528; 2537; 2586; 2927; 3196; 3601; 3728; 3729; 3831; 3832; 4522
BsaMI	GAATGCN!	1	1515
BsaMI	G!CATTC	1	1608
BsaWI	W!CCGGW	7	600; 1339; 1405; 2795; 3639; 4329; 4476
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1844
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	1814
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	

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BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	1765; 3672
Bsc4I	CCNNNNN!NNGG	20	49; 794; 1044; 1146; 1278; 1776; 2102; 2494; 2745; 3289; 3570; 3602; 3734; 3769; 3819; 3851; 4204; 4483; 4649; 4667
BscAI	GCATCNNNN!	10	865; 907; 994; 1315; 1579; 2342; 2414; 3062; 3126; 3401
BscAI	!NNNNNNGATGC	5	360; 2725; 2980; 3196; 4588
BseII	ACTGGN!	3	2708; 2909; 4155
BseII	C!CAGT	6	295; 819; 1793; 2471; 4267; 4280
Bse8I	GATNN!NNATC	2	1426; 2623
Bse2II	CC!TNAGG	2	2244; 3876
Bse118I	R!CCGGY	6	600; 775; 1981; 3083; 3264; 3547
BseAI	T!CCGGA	1	1339
BseBI	CC!WGG	12	90; 283; 874; 2300; 2355; 2372; 3151; 3730; 3833; 4523; 4536; 4657
BseCI	AT!CGAT	1	2604
BseDI	C!CNNGG	23	360; 611; 741; 872; 887; 1080; 1200; 1388; 1395; 2298; 2370; 2493; 2528; 2537; 2586; 2927; 3196; 3601; 3728; 3729; 3831; 3832; 4522
Bse3DI	GCAATGNN!	1	2997
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	627; 2624; 3081; 3106; 3560
BseGI	!CATCC	2	1049; 2450
BseJI	GATNN!NNATC	2	1426; 2623
BseLI	CCNNNNN!NNGG	20	49; 794; 1044; 1146; 1278; 1776; 2102; 2494; 2745; 3289; 3570; 3602; 3734; 3769; 3819; 3851; 4204; 4483; 4649; 4667
BseMI	GCAATGNN!	1	2997
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	1359; 3890
BseMII	!NNNNNNNNCTGAG	6	886; 2235; 2537; 3418; 3990; 4399
BseNI	ACTGGN!	3	2708; 2909; 4155
BseNI	C!CAGT	6	295; 819; 1793; 2471; 4267; 4280
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2582
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	6	761; 1304; 1396; 2710; 2803; 4372
BseXI	GCAGCNNNNNNNN!	8	737; 1193; 1552; 2837; 2879; 3400; 3853; 4353
BseXI	!NNNNNNNNNNNGCTGC	7	770; 2046; 2711; 2895; 2988; 4054; 4260
BseX3I	C!GGCCG	1	2670
BseYI	C!CCAGC	3	2307; 2379; 4378
BseYI	G!CTGGG	1	3268
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	20	60; 1034; 1187; 1259; 1277; 1390; 1652; 1688; 2064; 2084; 2108; 2139; 2830; 3131; 3569; 3653; 3716; 3785; 4058; 4639
Bsh1285I	CGRY!CG	4	605; 906; 2673; 4348
BshFI	GG!CC	30	84; 277; 638; 698; 718; 893; 1022; 1085; 1108; 1139; 1151; 1205; 1394; 1730; 1872; 2527; 2533; 2542; 2585; 2672; 2846; 3237; 3264; 3773; 3830; 3863; 4208; 4642; 4660; 4671
BshNI	G!GYRCC	7	465; 931; 967; 1384; 1917; 2763; 2798
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	2604
BsiEI	CGRY!CG	4	605; 906; 2673; 4348
BsiHKAI	GWGCW!C	5	761; 1359; 2877; 3067; 4372
BsiHKCI	C!YCGRG	3	886; 1352; 1395
BsiSI	C!CGG	22	601; 776; 1202; 1340; 1396; 1406; 1982; 2669; 2746; 2768; 2796; 2927; 3017; 3084; 3265; 3540; 3548; 3640; 4114; 4304; 4330; 4477
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	20	49; 794; 1044; 1146; 1278; 1776; 2102; 2494; 2745; 3289; 3570; 3602; 3734; 3769; 3819; 3851; 4204; 4483; 4649; 4667
BsIFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1255; 2915; 3447; 3556
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2280; 2352; 2416; 3711
BsmI	GAATGCN!	1	1515
BsmI	G!CATTC	1	1608
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	6	766; 1057; 2188; 2606; 3625; 3753
BsmBI	CGTCTCN!	0	

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BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1255; 2915; 3447; 3556
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2280; 2352; 2416; 3711
BsnI	GG!CC	30	84; 277; 638; 698; 718; 893; 1022; 1085; 1108; 1139; 1151; 1205; 1394; 1730; 1872; 2527; 2533; 2542; 2585; 2672; 2846; 3237; 3264; 3773; 3830; 3863; 4208; 4642; 4660; 4671
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	766; 1057; 3753
BsoBI	C!YCGRG	3	886; 1352; 1395
Bsp13I	T!CCGGA	1	1339
Bsp19I	C!CATGG	4	360; 611; 2493; 3196
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3567
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	3988; 4166
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	4020; 4198
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 3535
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1366; 3446
Bsp120I	G!GGCCC	1	1392
Bsp143I	!GATC	23	585; 815; 1196; 1348; 1399; 1408; 1421; 2601; 2605; 2624; 2935; 3013; 3094; 3103; 3181; 3557; 3573; 3932; 3944; 4022; 4030; 4041; 4116
Bsp1286I	GDGCH!C	13	761; 833; 1304; 1359; 1396; 1955; 2710; 2803; 2877; 3067; 3129; 3839; 4372
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 641; 843; 906; 984; 1127; 1185; 1305; 1388; 2079; 2082; 2096; 2186; 2434; 2446; 2455; 2467; 2477; 2488; 2534; 2673; 2736; 3238; 3283; 3349; 3375; 3500; 3503; 3651; 3783; 4090; 4234; 4730
BspACI	G!CGG	26	370; 403; 528; 635; 1136; 1390; 2024; 2051; 2139; 2249; 2830; 2894; 2995; 2998; 3278; 3333; 3431; 3569; 3716; 3856; 4099; 4344; 4465; 4484; 4611; 4639
BspCNI	CTCAGNNNNNNNN!	2	1358; 3889
BspCNI	!NNNNNNNCTGAG	6	887; 2236; 2538; 3419; 3991; 4400
BspDI	AT!CGAT	1	2604
BspD6I	GACTCNNNN!	5	418; 1351; 1837; 3443; 4320
BspD6I	!NNNNNNGAGTC	2	1800; 2232
BspEI	T!CCGGA	1	1339
BspFNI	CG!CG	20	60; 1034; 1187; 1259; 1277; 1390; 1652; 1688; 2064; 2084; 2108; 2139; 2830; 3131; 3569; 3653; 3716; 3785; 4058; 4639
BspHI	T!CATGA	2	2190; 3962
BspLI	GGN!NCC	23	467; 639; 933; 969; 1023; 1086; 1206; 1386; 1394; 1401; 1919; 1940; 1952; 2143; 2304; 2376; 2765; 2800; 3648; 3727; 3772; 4615; 4654
BspMI	ACCTGCNNNN!	3	979; 3032; 3482
BspMI	!NNNNNNNNGCAGGT	1	2651
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	1407; 1416; 2632; 2943; 3189; 3581; 3940; 4038; 4124
BspPI	!NNNNNGATCC	8	580; 810; 1191; 1394; 3008; 3552; 3939; 4036
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	2	3108; 3318
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1366; 3446
BspT107I	G!GYRCC	7	465; 931; 967; 1384; 1917; 2763; 2798
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	766; 1057; 3753
BsrI	ACTGGN!	3	2708; 2909; 4155
BsrI	C!CAGT	6	295; 819; 1793; 2471; 4267; 4280
BsrBI	CCG!CTC	2	2188; 3377
BsrBI	GAG!CGG	2	2024; 3431
BsrDI	GCAATGNN!	1	2997
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	6	600; 775; 1981; 3083; 3264; 3547
BsrGI	T!GTACA	0	
BsrSI	ACTGGN!	3	2708; 2909; 4155
BsrSI	C!CAGT	6	295; 819; 1793; 2471; 4267; 4280

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssAI	R!CCGGY	6	600; 775; 1981; 3083; 3264; 3547
BssECI	C!CNNGG	23	360; 611; 741; 872; 887; 1080; 1200; 1388; 1395; 2298; 2370; 2493; 2528; 2537; 2586; 2927; 3196; 3601; 3728; 3729; 3831; 3832; 4522
BssHII	G!CGCGC	0	
BssKI	!CCNGG	19	88; 281; 872; 1200; 1394; 1395; 2298; 2353; 2370; 2766; 2926; 3149; 3539; 3728; 3831; 4303; 4521; 4534; 4655
BssMI	!GATC	23	585; 815; 1196; 1348; 1399; 1408; 1421; 2601; 2605; 2624; 2935; 3013; 3094; 3103; 3181; 3557; 3573; 3932; 3944; 4022; 4030; 4041; 4116
BssNI	GR!CGYC	7	122; 175; 258; 444; 2764; 3466; 3545
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3482; 4509
BssSI	C!TCGTG	1	3356
BssT1I	C!CWVWGG	6	360; 611; 2493; 2586; 3196; 3601
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2231; 3108; 3318
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	7	122; 175; 258; 444; 2764; 3466; 3545
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	2331; 2403; 3865
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	2	1366; 3446
Bst2BI	C!ACGAG	2	3482; 4509
Bst2BI	C!TCGTG	1	3356
BstBAI	YAC!GTR	4	340; 1266; 1880; 3068
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 912; 993; 1384; 1855; 3144; 3260; 3368; 3691; 4182; 4652; 4723
BstC8I	GCN!NGC	37	86; 279; 593; 761; 781; 829; 843; 1102; 1106; 1273; 1300; 1392; 1983; 2026; 2040; 2313; 2332; 2385; 2404; 2658; 2844; 3063; 3129; 3135; 3163; 3167; 3208; 3212; 3266; 3549; 3736; 3783; 3839; 3861; 4072; 4632; 4669
BstDEI	C!TNAG	8	895; 1345; 2244; 2546; 3427; 3876; 3999; 4408
BstDSI	C!CRYGG	7	360; 611; 741; 1080; 1388; 2493; 3196
BstEII	G!GTNACC	1	1281
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	5	627; 2624; 3081; 3106; 3560
BstF5I	!CATCC	2	1049; 2450
BstFNI	CG!CG	20	60; 1034; 1187; 1259; 1277; 1390; 1652; 1688; 2064; 2084; 2108; 2139; 2830; 3131; 3569; 3653; 3716; 3785; 4058; 4639
BstH2I	RGCGC!Y	6	598; 1319; 2031; 2039; 2767; 4442
BstHHI	GCG!C	28	597; 917; 1034; 1100; 1189; 1259; 1277; 1318; 2030; 2038; 2064; 2086; 2095; 2108; 2139; 2758; 2766; 2830; 2867; 3133; 3393; 3569; 3655; 4058; 4167; 4341; 4441; 4508
BstKTI	GAT!C	23	588; 818; 1199; 1351; 1402; 1411; 1424; 2604; 2608; 2627; 2938; 3016; 3097; 3106; 3184; 3560; 3576; 3935; 3947; 4025; 4033; 4044; 4119
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	6	766; 1057; 2188; 2606; 3625; 3753
BstMBI	!GATC	23	585; 815; 1196; 1348; 1399; 1408; 1421; 2601; 2605; 2624; 2935; 3013; 3094; 3103; 3181; 3557; 3573; 3932; 3944; 4022; 4030; 4041; 4116
BstMCI	CGRY!CG	4	605; 906; 2673; 4348
BstMWI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 776; 905; 980; 1038; 1256; 1304; 1991; 2021; 2048; 2090; 2331; 2403; 2454; 2533; 2755; 2839; 2862; 3001; 3124; 3207; 3474; 3661; 3865; 4064; 4636
BstNI	CC!WGG	12	90; 283; 874; 2300; 2355; 2372; 3151; 3730; 3833; 4523; 4536; 4657
BstNSI	RCATG!Y	5	1074; 2334; 2406; 3169; 4686
BstOI	CC!WGG	12	90; 283; 874; 2300; 2355; 2372; 3151; 3730; 3833; 4523; 4536; 4657
BstPI	G!GTNACC	1	1281
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	19	88; 281; 872; 1200; 1394; 1395; 2298; 2353; 2370; 2766; 2926; 3149; 3539; 3728; 3831; 4303; 4521; 4534; 4655
BstSFI	C!TRYAG	4	1373; 2099; 4226; 4417

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSLI	GKGCMI C	6	761; 1304; 1396; 2710; 2803; 4372
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	20	60; 1034; 1187; 1259; 1277; 1390; 1652; 1688; 2064; 2084; 2108; 2139; 2830; 3131; 3569; 3653; 3716; 3785; 4058; 4639
Bst2UI	CC!WGG	12	90; 283; 874; 2300; 2355; 2372; 3151; 3730; 3833; 4523; 4536; 4657
BstV1I	GCAGCNNNNNNNN!	8	737; 1193; 1552; 2837; 2879; 3400; 3853; 4353
BstV1I	!NNNNNNNNNNNGCTGC	7	770; 2046; 2711; 2895; 2988; 4054; 4260
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	12	585; 1196; 1348; 1399; 1408; 2935; 3181; 3573; 3932; 3944; 4030; 4041
BstYI	R!GATCY	12	585; 1196; 1348; 1399; 1408; 2935; 3181; 3573; 3932; 3944; 4030; 4041
BstZI	C!GGCCG	1	2670
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2193; 2983; 4484
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2604
Bsu36I	CC!TNAGG	2	2244; 3876
BsuRI	GG!CC	30	84; 277; 638; 698; 718; 893; 1022; 1085; 1108; 1139; 1151; 1205; 1394; 1730; 1872; 2527; 2533; 2542; 2585; 2672; 2846; 3237; 3264; 3773; 3830; 3863; 4208; 4642; 4660; 4671
BsuTUI	AT!CGAT	1	2604
BtgI	C!CRYGG	7	360; 611; 741; 1080; 1388; 2493; 3196
BtgZI	GCGATGNNNNNNNNNN!	2	1881; 3216
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3035; 3379
BthCI	GCNG!C	36	638; 728; 731; 786; 986; 1139; 1184; 1187; 1543; 2062; 2084; 2098; 2536; 2675; 2727; 2738; 2828; 2833; 2870; 2911; 2998; 3001; 3004; 3240; 3336; 3377; 3391; 3505; 3844; 3859; 4070; 4276; 4279; 4344; 4487; 4642
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1603
BtsCI	GGATGNN!	5	627; 2624; 3081; 3106; 3560
BtsCI	!CATCC	2	1049; 2450
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	979; 3032; 3482
BveI	!NNNNNNNNNGCAGGT	1	2651
Cac8I	GCN!NGC	37	86; 279; 593; 761; 781; 829; 843; 1102; 1106; 1273; 1300; 1392; 1983; 2026; 2040; 2313; 2332; 2385; 2404; 2658; 2844; 3063; 3129; 3135; 3163; 3167; 3208; 3212; 3266; 3549; 3736; 3783; 3839; 3861; 4072; 4632; 4669
CaiI	CAGNNN!CTG	2	3865; 4273
CciI	T!CATGA	2	2190; 3962
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	10	352; 681; 714; 903; 1116; 1323; 3053; 3058; 3256; 3397
CdiI	C!GATG	2	1867; 3202
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	4636
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2425; 2467
CelII	GC!TNAGC	0	
CfoI	GCG!C	28	597; 917; 1034; 1100; 1189; 1259; 1277; 1318; 2030; 2038; 2064; 2086; 2095; 2108; 2139; 2758; 2766; 2830; 2867; 3133; 3393; 3569; 3655; 4058; 4167; 4341; 4441; 4508
CfrI	Y!GGCCR	6	696; 716; 2670; 2844; 3235; 3262
Cfr9I	C!CCGGG	1	1395
Cfr10I	R!CCGGY	6	600; 775; 1981; 3083; 3264; 3547
Cfr13I	G!GNCC	15	83; 276; 637; 891; 1021; 1084; 1149; 1204; 1393; 1871; 3280; 3725; 3771; 3829; 3862
Cfr42I	CCGC!GG	1	1391
ChaI	GATC!	23	589; 819; 1200; 1352; 1403; 1412; 1425; 2605; 2609; 2628; 2939; 3017; 3098; 3107; 3185; 3561; 3577; 3936; 3948; 4026; 4034; 4045; 4120
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	2581; 4021; 4121; 4199
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2248; 2343; 3535; 4085; 4640

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2282; 2377; 3569; 4119; 4674
CjeI	!NNNNNNNNCCANNNNNNNGT	4	2547; 3987; 4087; 4165
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	4021; 4199
CjePI	!NNNNNNNNGANNNNNNNNTGG	3	257; 3535; 4134
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 3568; 4167
CjePI	!NNNNNNNNCCANNNNNNNTC	2	3988; 4166
Clal	AT!CGAT	1	2604
CpoI	CG!GWCCG	1	3280
CseI	GACGCNNNNN!	3	526; 3474; 3553
CseI	!NNNNNNNNNNNGCGTC	3	2097; 3992; 4570
CsiI	A!CCWGGT	1	2353
CspI	CG!GWCCG	1	3280
Csp6I	G!TAC	9	218; 243; 298; 331; 382; 539; 822; 1385; 3069
Csp45I	TT!CGAA	2	1366; 3446
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	2	2044; 3653
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	21	301; 361; 612; 660; 789; 936; 1029; 1071; 2191; 2331; 2403; 2494; 2635; 2980; 3166; 3197; 3223; 3579; 3963; 4683; 4734
CviJI	RG!CY	98	42; 84; 93; 277; 566; 638; 698; 718; 783; 794; 801; 831; 863; 893; 944; 960; 983; 1007; 1014; 1022; 1041; 1085; 1104; 1108; 1118; 1139; 1151; 1184; 1205; 1357; 1363; 1394; 1433; 1543; 1710; 1730; 1872; 1953; 1967; 1981; 2262; 2303; 2375; 2498; 2527; 2533; 2542; 2550; 2573; 2585; 2591; 2672; 2689; 2697; 2724; 2749; 2833; 2842; 2846; 2870; 2908; 2984; 3001; 3020; 3083; 3127; 3137; 3154; 3237; 3264; 3268; 3305; 3328; 3344; 3524; 3551; 3612; 3734; 3773; 3830; 3837; 3844; 3863; 3874; 4125; 4154; 4197; 4208; 4273; 4352; 4377; 4382; 4428; 4518; 4616; 4642; 4660; 4671
CviKI-1	RG!CY	98	42; 84; 93; 277; 566; 638; 698; 718; 783; 794; 801; 831; 863; 893; 944; 960; 983; 1007; 1014; 1022; 1041; 1085; 1104; 1108; 1118; 1139; 1151; 1184; 1205; 1357; 1363; 1394; 1433; 1543; 1710; 1730; 1872; 1953; 1967; 1981; 2262; 2303; 2375; 2498; 2527; 2533; 2542; 2550; 2573; 2585; 2591; 2672; 2689; 2697; 2724; 2749; 2833; 2842; 2846; 2870; 2908; 2984; 3001; 3020; 3083; 3127; 3137; 3154; 3237; 3264; 3268; 3305; 3328; 3344; 3524; 3551; 3612; 3734; 3773; 3830; 3837; 3844; 3863; 3874; 4125; 4154; 4197; 4208; 4273; 4352; 4377; 4382; 4428; 4518; 4616; 4642; 4660; 4671
CviQI	G!TAC	9	218; 243; 298; 331; 382; 539; 822; 1385; 3069
DdeI	C!TNAG	8	895; 1345; 2244; 2546; 3427; 3876; 3999; 4408
DinI	GGC!GCC	1	2765
DpnI	GA!TC	23	587; 817; 1198; 1350; 1401; 1410; 1423; 2603; 2607; 2626; 2937; 3015; 3096; 3105; 3183; 3559; 3575; 3934; 3946; 4024; 4032; 4043; 4118
DpnII	!GATC	23	585; 815; 1196; 1348; 1399; 1408; 1421; 2601; 2605; 2624; 2935; 3013; 3094; 3103; 3181; 3557; 3573; 3932; 3944; 4022; 4030; 4041; 4116
DraI	TTT!AAA	3	1466; 3908; 3927
DraII	RG!GNCCY	2	891; 3862
DraIII	CACNNN!GTG	4	765; 1215; 1299; 1880
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	2	266; 4244
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTTG	0	
DrdI	GACNNNN!NNGTC	3	1835; 2791; 4580
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNNN!NNGTC	3	1835; 2791; 4580
EaeI	Y!GGCCR	6	696; 716; 2670; 2844; 3235; 3262
EagI	C!GGCCG	1	2670
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2231; 3108; 3318
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EarI	!NNNNGAAGAG	3	2231; 3108; 3318
EciI	GGCGGANNNNNNNNNN!	4	2264; 3293; 4480; 4626
EciI	!NNNNNNNNNTCCGCC	4	496; 2435; 2456; 2477
Ecl136II	GAG!CTC	1	1357
EclXI	C!GGCCG	1	2670
Eco24I	GRGCY!C	6	833; 1359; 1396; 1955; 3129; 3839
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	3	766; 1057; 3753
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3280; 3725
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	2670
Eco57I	CTGAAGNNNNNNNNNNNNNN!	2	2910; 3342
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4140
Eco72I	CAC!GTG	1	1266
Eco81I	CC!TNAGG	2	2244; 3876
Eco88I	C!YCGRG	3	886; 1352; 1395
Eco91I	G!GTNACC	1	1281
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 611; 2493; 2586; 3196; 3601
Eco147I	AGG!CCT	1	2585
EcoHI	!CCSGG	7	1200; 1394; 1395; 2766; 2926; 3539; 4303
EcoICRI	GAG!CTC	1	1357
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	3	2910; 3342; 3604
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	2	3547; 4140
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	1	1281
Eco0109I	RG!GNCCY	2	891; 3862
EcoRI	G!AATTC	1	1368
EcoRII	!CCWGG	12	88; 281; 872; 2298; 2353; 2370; 3149; 3728; 3831; 4521; 4534; 4655
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 611; 2493; 2586; 3196; 3601
EcoT22I	ATGCA!T	3	2336; 2408; 4739
EcoT38I	GRGCY!C	6	833; 1359; 1396; 1955; 3129; 3839
Eco53kI	GAG!CTC	1	1357
EgeI	GGC!GCC	1	2765
EheI	GGC!GCC	1	2765
ErhI	C!CWWGG	6	360; 611; 2493; 2586; 3196; 3601
EsaBC3I	TC!GA	18	681; 903; 921; 1158; 1354; 1367; 1380; 1914; 2605; 2878; 3034; 3058; 3094; 3256; 3447; 3492; 3747; 4585
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	21	304; 364; 615; 663; 792; 939; 1032; 1074; 2194; 2334; 2406; 2497; 2638; 2983; 3169; 3200; 3226; 3582; 3966; 4686; 4737
Fail	YA!TR	57	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 661; 790; 937; 1030; 1072; 1426; 1436; 1502; 1547; 1752; 2180; 2192; 2323; 2332; 2395; 2404; 2428; 2495; 2519; 2636; 2700; 2981; 3006; 3167; 3198; 3224; 3296; 3512; 3580; 3658; 3710; 3871; 3888; 3890; 3892; 3964; 4242; 4431; 4547; 4620; 4684; 4735
FaII	AAGNNNNNCTTNNNNNNNNNNNN!	2	1188; 3104
FaII	!NNNNNNNNAAGNNNNNCTT	2	1156; 3072
FaqI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1255; 2915; 3447; 3556
FaqI	!NNNNNNNNNNNNNGTCCC	4	2280; 2352; 2416; 3711
FatI	!CATG	21	300; 360; 611; 659; 788; 935; 1028; 1070; 2190; 2330; 2402; 2493; 2634; 2979; 3165; 3196; 3222; 3578; 3962; 4682; 4733
FauI	CCCGCNNNN!	11	93; 119; 286; 648; 850; 1312; 2086; 2441; 2462; 3658; 3790
FauI	!NNNNNNNGCGGG	6	1383; 2017; 2887; 3424; 3562; 3709
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	1421
FblI	GT!MKAC	1	1379
FmuI	GGNC!C	15	86; 279; 640; 894; 1024; 1087; 1152; 1207; 1396; 1874; 3283; 3728; 3774; 3832; 3865

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	36	636; 726; 729; 784; 984; 1137; 1182; 1185; 1541; 2060; 2082; 2096; 2534; 2673; 2725; 2736; 2826; 2831; 2868; 2909; 2996; 2999; 3002; 3238; 3334; 3375; 3389; 3503; 3842; 3857; 4068; 4274; 4277; 4342; 4485; 4640
FokI	GGATGNNNNNNNNNN!	5	634; 2631; 3088; 3113; 3567
FokI	!NNNNNNNNNNNNNNCATCC	2	1036; 2437
FriOI	GRGCY!C	6	833; 1359; 1396; 1955; 3129; 3839
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2866
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1412; 1613; 2031; 2587; 3602; 3936; 4189
FspEI	CCNNNNNNNNNNNN!	165	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 652; 678; 712; 732; 751; 777; 800; 815; 832; 846; 862; 877; 898; 919; 948; 966; 984; 1005; 1024; 1038; 1066; 1080; 1099; 1114; 1137; 1153; 1185; 1203; 1219; 1233; 1260; 1276; 1299; 1316; 1332; 1353; 1401; 1416; 1447; 1486; 1500; 1641; 1736; 1760; 1783; 1806; 1824; 1846; 1867; 1886; 1905; 1934; 1955; 1969; 1995; 2083; 2109; 2158; 2199; 2217; 2256; 2272; 2310; 2367; 2382; 2439; 2459; 2473; 2490; 2504; 2541; 2556; 2599; 2682; 2749; 2780; 2800; 2815; 2860; 2874; 2940; 2954; 2973; 2989; 3030; 3050; 3097; 3147; 3163; 3183; 3208; 3228; 3251; 3278; 3296; 3322; 3362; 3388; 3412; 3468; 3482; 3510; 3553; 3574; 3609; 3653; 3741; 3765; 3787; 3807; 3823; 3844; 3858; 3877; 3961; 3981; 4009; 4024; 4058; 4100; 4127; 4142; 4187; 4211; 4225; 4247; 4273; 4293; 4317; 4343; 4391; 4410; 4429; 4455; 4490; 4535; 4565; 4579; 4630; 4644; 4669; 4685; 4706; 4735
FspEI	!NNNNNNNNNNNNNNNNGG	127	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 604; 668; 700; 728; 761; 780; 809; 839; 859; 914; 946; 989; 1027; 1067; 1090; 1118; 1163; 1187; 1224; 1264; 1307; 1325; 1367; 1391; 1435; 1535; 1604; 1712; 1761; 1783; 1811; 1847; 1892; 1921; 1957; 1976; 2004; 2024; 2087; 2110; 2218; 2250; 2268; 2297; 2340; 2369; 2480; 2509; 2552; 2573; 2601; 2634; 2654; 2679; 2706; 2731; 2753; 2781; 2807; 2828; 2879; 2900; 2918; 2966; 3002; 3058; 3083; 3107; 3136; 3159; 3183; 3209; 3231; 3250; 3275; 3315; 3351; 3416; 3501; 3525; 3554; 3588; 3609; 3629; 3674; 3701; 3720; 3753; 3805; 3836; 3863; 3915; 4013; 4084; 4129; 4190; 4255; 4289; 4315; 4333; 4369; 4439; 4462; 4484; 4508; 4541; 4589; 4624; 4642; 4699
Fsp4HI	GC!NGC	36	636; 726; 729; 784; 984; 1137; 1182; 1185; 1541; 2060; 2082; 2096; 2534; 2673; 2725; 2736; 2826; 2831; 2868; 2909; 2996; 2999; 3002; 3238; 3334; 3375; 3389; 3503; 3842; 3857; 4068; 4274; 4277; 4342; 4485; 4640
GdiII	C!GGCCR	2	696; 2670
GdiII	Y!GGCCG	4	716; 2670; 3235; 3262
GlaI	GC!GC	28	596; 916; 1033; 1099; 1188; 1258; 1276; 1317; 2029; 2037; 2063; 2085; 2094; 2107; 2138; 2757; 2765; 2829; 2866; 3132; 3392; 3568; 3654; 4057; 4166; 4340; 4440; 4507
GluI	GC!NGC	36	636; 726; 729; 784; 984; 1137; 1182; 1185; 1541; 2060; 2082; 2096; 2534; 2673; 2725; 2736; 2826; 2831; 2868; 2909; 2996; 2999; 3002; 3238; 3334; 3375; 3389; 3503; 3842; 3857; 4068; 4274; 4277; 4342; 4485; 4640
GsaI	CCCAG!C	3	2311; 2383; 4382
GsaI	GCTGG!G	1	3272
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3604
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3547
HaeI	WGG!CCW	6	1108; 2585; 2846; 4208; 4660; 4671
HaeII	RGCGC!Y	6	598; 1319; 2031; 2039; 2767; 4442
HaeIII	GG!CC	30	84; 277; 638; 698; 718; 893; 1022; 1085; 1108; 1139; 1151; 1205; 1394; 1730; 1872; 2527; 2533; 2542; 2585; 2672; 2846; 3237; 3264; 3773; 3830; 3863; 4208; 4642; 4660; 4671
HaeIV	GAYNNNNNNRTCNNNNNNNNNNNNN!	2	1439; 2960
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1405; 2926
HaeIV	GAYNNNNNNRTCNNNNNNNNNNNNN!	2	1438; 2959
HaeIV	!NNNNNNNGAYNNNNNNRTC	2	1407; 2928
HapII	C!CGG	22	601; 776; 1202; 1340; 1396; 1406; 1982; 2669; 2746; 2768; 2796; 2927; 3017; 3084; 3265; 3540; 3548; 3640; 4114; 4304; 4330; 4477
HgaI	GACGCNNNNN!	3	526; 3474; 3553

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HgaI	!NNNNNNNNNGCGTC	3	2097; 3992; 4570
HhaI	GCG!C	28	597; 917; 1034; 1100; 1189; 1259; 1277; 1318; 2030; 2038; 2064; 2086; 2095; 2108; 2139; 2758; 2766; 2830; 2867; 3133; 3393; 3569; 3655; 4058; 4167; 4341; 4441; 4508
Hin1I	GR!CGYC	7	122; 175; 258; 444; 2764; 3466; 3545
Hin1II	CATG!	21	304; 364; 615; 663; 792; 939; 1032; 1074; 2194; 2334; 2406; 2497; 2638; 2983; 3169; 3200; 3226; 3582; 3966; 4686; 4737
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1438; 2959
Hin4I	!NNNNNNNGABNNNNNRTC	3	1406; 2927; 2957
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1438; 2959; 2989
Hin4I	!NNNNNNNGAYNNNNNVTC	2	1406; 2927
Hin6I	G!CGC	28	595; 915; 1032; 1098; 1187; 1257; 1275; 1316; 2028; 2036; 2062; 2084; 2093; 2106; 2137; 2756; 2764; 2828; 2865; 3131; 3391; 3567; 3653; 4056; 4165; 4339; 4439; 4506
HinP1I	G!CGC	28	595; 915; 1032; 1098; 1187; 1257; 1275; 1316; 2028; 2036; 2062; 2084; 2093; 2106; 2137; 2756; 2764; 2828; 2865; 3131; 3391; 3567; 3653; 4056; 4165; 4339; 4439; 4506
HincII	GTY!RAC	2	1380; 1527
HindII	GTY!RAC	2	1380; 1527
HindIII	A!AGCTT	1	1361
HinfI	G!ANTC	13	410; 1336; 1343; 1807; 1829; 2239; 3249; 3383; 3435; 3493; 3530; 4312; 4708
HpaI	GTT!AAC	1	1527
HpaII	C!CGG	22	601; 776; 1202; 1340; 1396; 1406; 1982; 2669; 2746; 2768; 2796; 2927; 3017; 3084; 3265; 3540; 3548; 3640; 4114; 4304; 4330; 4477
HphI	GGTGANNNNNNN!	5	376; 702; 1293; 3835; 3951
HphI	!NNNNNNNTCACC	7	699; 981; 1113; 1218; 1302; 1881; 2942
Hpy8I	GTN!NAC	14	201; 539; 577; 693; 707; 759; 996; 1047; 1380; 1527; 1811; 1828; 1883; 4370
Hpy99I	CGWCG!	15	685; 724; 931; 1006; 1021; 1135; 1333; 1384; 2854; 2882; 3176; 3191; 3468; 3853; 4586
Hpy166II	GTN!NAC	14	201; 539; 577; 693; 707; 759; 996; 1047; 1380; 1527; 1811; 1828; 1883; 4370
Hpy188I	TCN!GA	13	585; 630; 1348; 1938; 2547; 2731; 3075; 3428; 3529; 4008; 4142; 4495; 4573
Hpy188III	TC!NNGA	26	651; 921; 1194; 1215; 1340; 1352; 1412; 2191; 2243; 2556; 2609; 2782; 3098; 3107; 3190; 3246; 3290; 3380; 3413; 3482; 3963; 4037; 4120; 4218; 4316; 4450
HpyAV	CCTTCNNNNNN!	7	675; 843; 1119; 1182; 3409; 3516; 4195
HpyAV	!NNNNNGAAGG	7	1997; 2892; 3621; 3637; 3820; 4137; 4447
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 912; 993; 1384; 1855; 3144; 3260; 3368; 3691; 4182; 4652; 4723
HpyCH4IV	A!CGT	16	122; 134; 175; 258; 339; 444; 755; 1265; 1824; 1836; 1879; 1989; 2880; 3067; 3848; 3981
HpyCH4V	TG!CA	18	759; 1375; 1513; 1540; 1608; 2325; 2334; 2397; 2406; 2521; 2597; 2656; 2815; 2990; 3004; 4074; 4370; 4737
HpyF3I	C!TNAG	8	895; 1345; 2244; 2546; 3427; 3876; 3999; 4408
HpyF10VI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 776; 905; 980; 1038; 1256; 1304; 1991; 2021; 2048; 2090; 2331; 2403; 2454; 2533; 2755; 2839; 2862; 3001; 3124; 3207; 3474; 3661; 3865; 4064; 4636
Hsp92I	GR!CGYC	7	122; 175; 258; 444; 2764; 3466; 3545
Hsp92II	CATG!	21	304; 364; 615; 663; 792; 939; 1032; 1074; 2194; 2334; 2406; 2497; 2638; 2983; 3169; 3200; 3226; 3582; 3966; 4686; 4737
HspAI	G!CGC	28	595; 915; 1032; 1098; 1187; 1257; 1275; 1316; 2028; 2036; 2062; 2084; 2093; 2106; 2137; 2756; 2764; 2828; 2865; 3131; 3391; 3567; 3653; 4056; 4165; 4339; 4439; 4506
KasI	G!GCGCC	1	2763
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	1388
Kpn2I	T!CCGGA	1	1339
KspI	CCGC!GG	1	1391
Ksp22I	T!GATCA	1	1421
KspAI	GTT!AAC	1	1527
Kzo9I	!GATC	23	585; 815; 1196; 1348; 1399; 1408; 1421; 2601; 2605; 2624; 2935; 3013; 3094; 3103; 3181; 3557; 3573; 3932; 3944; 4022; 4030; 4041; 4116
LguI	GCTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LguI	!NNNNGAAGAGC	2	3108; 3318
LpnI	RGCI GCY	6	596; 1317; 2029; 2037; 2765; 4440
LpnPI	CCDGNNNNNNNNNN!	66	102; 295; 614; 658; 712; 789; 826; 886; 907; 954; 984; 1024; 1051; 1066; 1114; 1153; 1215; 1260; 1285; 1326; 1353; 1409; 1501; 1806; 1995; 2218; 2256; 2272; 2312; 2367; 2384; 2484; 2569; 2682; 2759; 2781; 2804; 2940; 2954; 2973; 3030; 3097; 3147; 3163; 3220; 3278; 3487; 3553; 3577; 3653; 3742; 3845; 3878; 4109; 4127; 4273; 4293; 4317; 4343; 4392; 4490; 4535; 4565; 4644; 4669; 4706
LpnPI	!NNNNNNNNNNNNNNCHGG	54	75; 268; 552; 586; 761; 780; 859; 946; 1027; 1090; 1187; 1325; 1381; 1847; 1967; 2024; 2087; 2285; 2297; 2357; 2369; 2601; 2646; 2689; 2731; 2753; 2781; 2828; 2890; 2912; 3002; 3069; 3092; 3136; 3231; 3250; 3275; 3424; 3525; 3568; 3625; 3715; 3818; 3845; 3863; 4099; 4136; 4289; 4315; 4455; 4473; 4508; 4589; 4642
Lsp1109I	GCAGCNNNNNNNN!	8	737; 1193; 1552; 2837; 2879; 3400; 3853; 4353
Lsp1109I	!NNNNNNNNNNNGCTGC	7	770; 2046; 2711; 2895; 2988; 4054; 4260
LweI	GCATCNNNNN!	10	866; 908; 995; 1316; 1580; 2343; 2415; 3063; 3127; 3402
LweI	!NNNNNNNNNGATGC	5	357; 2722; 2977; 3193; 4585
MabI	A!CCWGGT	1	2353
MaeI	C!TAG	8	592; 1412; 1613; 2031; 2587; 3602; 3936; 4189
MaeII	A!CGT	16	122; 134; 175; 258; 339; 444; 755; 1265; 1824; 1836; 1879; 1989; 2880; 3067; 3848; 3981
MaeIII	!GTNAC	14	61; 148; 497; 1215; 1281; 1552; 2053; 2065; 2884; 3190; 3880; 4146; 4262; 4325
MalI	GA!TC	23	587; 817; 1198; 1350; 1401; 1410; 1423; 2603; 2607; 2626; 2937; 3015; 3096; 3105; 3183; 3559; 3575; 3934; 3946; 4024; 4032; 4043; 4118
MaqI	CRTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2188; 3377
MbiI	GAG!CGG	2	2024; 3431
MboI	!GATC	23	585; 815; 1196; 1348; 1399; 1408; 1421; 2601; 2605; 2624; 2935; 3013; 3094; 3103; 3181; 3557; 3573; 3932; 3944; 4022; 4030; 4041; 4116
MboII	GAAGANNNNNNNN!	5	2020; 2248; 3125; 3335; 3954
MboII	!NNNNNNNTCTTC	6	666; 828; 3415; 3582; 3782; 4025
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1514
MflI	R!GATCY	12	585; 1196; 1348; 1399; 1408; 2935; 3181; 3573; 3932; 3944; 4030; 4041
MhlI	GDGCH!C	13	761; 833; 1304; 1359; 1396; 1955; 2710; 2803; 2877; 3067; 3129; 3839; 4372
MIsI	TGG!CCA	1	2846
MluI	A!CGCGT	1	1650
MluNI	TGG!CCA	1	2846
MlyI	GAGTCNNNNN!	2	1816; 2248
MlyI	!NNNNNGACTC	5	404; 1337; 1823; 3429; 4306
Mly113I	GG!CGCC	1	2764
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1857
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	4289; 4473
MnII	CCTCNNNNNNN!	7	1483; 2547; 3365; 3571; 3885; 4255; 4579
MnII	!NNNNNGAGG	20	541; 612; 624; 681; 882; 1232; 1272; 1326; 1443; 1908; 2239; 2517; 2560; 2575; 2615; 2679; 2815; 3172; 3602; 4505
Mph1103I	ATGCA!T	3	2336; 2408; 4739
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1339
MroNI	G!CCGGC	3	1981; 3264; 3547
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	1	2846
MseI	T!TAA	15	7; 1465; 1526; 1647; 1668; 1679; 1691; 1702; 1719; 1817; 2088; 3907; 3921; 3926; 3978
MslI	CAYNN!NNRTG	5	365; 712; 973; 991; 3201
MspI	C!CGG	22	601; 776; 1202; 1340; 1396; 1406; 1982; 2669; 2746; 2768; 2796; 2927; 3017; 3084; 3265; 3540; 3548; 3640; 4114; 4304; 4330; 4477
Msp20I	TGG!CCA	1	2846

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspAII	CMG!CKG	7	1041; 1104; 1390; 2262; 2870; 4099; 4344
MspCI	C!TTAAG	0	
MspJI	CNNRNNNNNNNNN!	240	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 613; 630; 652; 672; 699; 712; 726; 744; 768; 783; 799; 814; 831; 854; 884; 898; 919; 933; 948; 961; 983; 997; 1023; 1036; 1050; 1065; 1079; 1093; 1107; 1142; 1176; 1198; 1213; 1227; 1241; 1259; 1276; 1290; 1304; 1318; 1344; 1357; 1370; 1401; 1418; 1432; 1447; 1471; 1488; 1501; 1542; 1556; 1569; 1587; 1625; 1640; 1658; 1699; 1723; 1743; 1761; 1782; 1805; 1837; 1852; 1874; 1892; 1905; 1926; 1943; 1956; 1969; 1985; 1998; 2028; 2043; 2068; 2086; 2099; 2114; 2138; 2152; 2176; 2201; 2217; 2255; 2271; 2310; 2324; 2338; 2366; 2382; 2396; 2410; 2439; 2452; 2473; 2482; 2504; 2534; 2550; 2568; 2598; 2621; 2645; 2669; 2688; 2716; 2742; 2758; 2771; 2794; 2808; 2828; 2841; 2855; 2874; 2888; 2901; 2917; 2932; 2945; 2961; 2976; 2992; 3017; 3036; 3052; 3065; 3078; 3096; 3110; 3124; 3140; 3162; 3178; 3197; 3219; 3235; 3258; 3277; 3291; 3307; 3321; 3341; 3357; 3370; 3392; 3425; 3439; 3459; 3472; 3486; 3540; 3553; 3576; 3589; 3608; 3625; 3652; 3688; 3721; 3740; 3765; 3786; 3813; 3826; 3843; 3857; 3872; 3888; 3948; 3973; 3989; 4011; 4024; 4038; 4069; 4083; 4108; 4126; 4141; 4154; 4173; 4186; 4201; 4230; 4249; 4267; 4292; 4307; 4326; 4342; 4361; 4379; 4395; 4409; 4428; 4455; 4478; 4500; 4519; 4534; 4547; 4564; 4584; 4611; 4624; 4643; 4668; 4691; 4705; 4718; 4735
MspJI	!NNNNNNNNNNNNYNG	202	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 598; 626; 646; 673; 700; 718; 742; 762; 781; 799; 824; 846; 872; 898; 922; 941; 959; 979; 997; 1015; 1039; 1057; 1081; 1101; 1126; 1150; 1172; 1199; 1216; 1233; 1250; 1274; 1299; 1318; 1338; 1358; 1375; 1392; 1416; 1445; 1474; 1516; 1599; 1637; 1661; 1684; 1713; 1757; 1779; 1811; 1847; 1864; 1885; 1922; 1942; 1959; 1976; 2011; 2029; 2047; 2064; 2088; 2110; 2137; 2165; 2191; 2229; 2250; 2267; 2285; 2308; 2329; 2357; 2380; 2401; 2419; 2440; 2457; 2480; 2504; 2524; 2542; 2564; 2595; 2617; 2643; 2662; 2679; 2707; 2726; 2745; 2763; 2781; 2802; 2824; 2848; 2881; 2901; 2919; 2940; 2966; 2993; 3010; 3027; 3044; 3070; 3092; 3114; 3132; 3152; 3171; 3193; 3231; 3251; 3275; 3295; 3315; 3342; 3366; 3399; 3418; 3446; 3468; 3497; 3525; 3550; 3569; 3588; 3609; 3626; 3643; 3674; 3701; 3721; 3744; 3764; 3801; 3818; 3837; 3863; 3883; 3922; 3949; 3968; 3986; 4023; 4041; 4082; 4100; 4126; 4143; 4175; 4204; 4232; 4253; 4276; 4295; 4316; 4334; 4351; 4369; 4395; 4416; 4436; 4456; 4474; 4495; 4521; 4538; 4557; 4576; 4605; 4624; 4642; 4661; 4679; 4697; 4720
MspR9I	CC!NGG	19	90; 283; 874; 1202; 1396; 1397; 2300; 2355; 2372; 2768; 2928; 3151; 3541; 3730; 3833; 4305; 4523; 4536; 4657
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1514
MvaI	CC!WGG	12	90; 283; 874; 2300; 2355; 2372; 3151; 3730; 3833; 4523; 4536; 4657
Mva1269I	GAATGCN!	1	1515
Mva1269I	G!CATTC	1	1608
MvnI	CG!CG	20	60; 1034; 1187; 1259; 1277; 1390; 1652; 1688; 2064; 2084; 2108; 2139; 2830; 3131; 3569; 3653; 3716; 3785; 4058; 4639
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 776; 905; 980; 1038; 1256; 1304; 1991; 2021; 2048; 2090; 2331; 2403; 2454; 2533; 2755; 2839; 2862; 3001; 3124; 3207; 3474; 3661; 3865; 4064; 4636
NaeI	GCC!GGC	3	1983; 3266; 3549
NarI	GG!CGCC	1	2764
NciI	CC!SGG	7	1202; 1396; 1397; 2768; 2928; 3541; 4305
NcoI	C!CATGG	4	360; 611; 2493; 3196
NdeI	CA!TATG	1	234
NdeII	!GATC	23	585; 815; 1196; 1348; 1399; 1408; 1421; 2601; 2605; 2624; 2935; 3013; 3094; 3103; 3181; 3557; 3573; 3932; 3944; 4022; 4030; 4041; 4116
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	1981; 3264; 3547
NheI	G!CTAGC	1	591
NlaIII	CATG!	21	304; 364; 615; 663; 792; 939; 1032; 1074; 2194; 2334; 2406; 2497; 2638; 2983; 3169; 3200; 3226; 3582; 3966; 4686; 4737
NlaIV	GGN!NCC	23	467; 639; 933; 969; 1023; 1086; 1206; 1386; 1394; 1401; 1919; 1940; 1952; 2143; 2304; 2376; 2765; 2800; 3648; 3727; 3772; 4615; 4654
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	6	1011; 1248; 1332; 1596; 1911; 3503
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 4575
Nli3877I	CYCGR!G	3	890; 1356; 1399
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2553; 2989
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2518
NmeDI	RCCGGYNNNNNN!	6	612; 787; 1993; 3095; 3276; 3559
NmeDI	!NNNNNNNNNNNNRCCGGY	6	587; 762; 1968; 3070; 3251; 3534
NmuCI	!GTSAC	5	1215; 1281; 2053; 2884; 3190
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2866
NsiI	ATGCA!T	3	2336; 2408; 4739
NspI	RCATG!Y	5	1074; 2334; 2406; 3169; 4686
NspV	TT!CGAA	2	1366; 3446
OliI	CACNN!NNGTG	2	712; 973
PabI	GTA!C	9	220; 245; 300; 333; 384; 541; 824; 1387; 3071
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2334; 2406; 3169
PaeR7I	C!TCGAG	1	1352
PagI	T!CATGA	2	2190; 3962
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3729; 3832
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2585
PciI	A!CATGT	2	1070; 4682
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3108; 3318
PcsI	WCGNNNN!NNNCGW	11	761; 908; 971; 1295; 1328; 3058; 3135; 3378; 3452; 3845; 4363
PctI	GAATGCN!	1	1515
PctI	G!CATTC	1	1608
PdiI	GCC!GGC	3	1983; 3266; 3549
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	6	1336; 3249; 3383; 3493; 3530; 4708
Pfi23II	C!GTACG	0	
PfifI	GACN!NNGTC	1	2882
PfIMI	CCANNNN!NTGG	2	794; 1044
PfoI	T!CCNGGA	1	3539
PhoI	GG!CC	30	84; 277; 638; 698; 718; 893; 1022; 1085; 1108; 1139; 1151; 1205; 1394; 1730; 1872; 2527; 2533; 2542; 2585; 2672; 2846; 3237; 3264; 3773; 3830; 3863; 4208; 4642; 4660; 4671
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	2	884; 3145
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	3	1121; 2710; 2965
PleI	GAGTCNNNN!	2	1815; 2247
PleI	!NNNNNGACTC	5	404; 1337; 1823; 3429; 4306
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	1266
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	1	1266
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1846
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	3976
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4008
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1814
PpsI	GAGTCNNNN!	2	1815; 2247
PpsI	!NNNNNGACTC	5	404; 1337; 1823; 3429; 4306
Ppu10I	A!TGCAT	3	2332; 2404; 4735
Ppu21I	YAC!GTR	4	340; 1266; 1880; 3068

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	2	1070; 4682
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1547; 1752
Psp03I	GGWC!C	2	3283; 3728
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	12	88; 281; 872; 2298; 2353; 2370; 3149; 3728; 3831; 4521; 4534; 4655
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1359
PspCI	CAC!GTG	1	1266
PspEI	G!GTNACC	1	1281
PspGI	!CCWGG	12	88; 281; 872; 2298; 2353; 2370; 3149; 3728; 3831; 4521; 4534; 4655
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	23	467; 639; 933; 969; 1023; 1086; 1206; 1386; 1394; 1401; 1919; 1940; 1952; 2143; 2304; 2376; 2765; 2800; 3648; 3727; 3772; 4615; 4654
PspOMI	G!GGCCC	1	1392
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	4	125; 896; 2494; 3493
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2896
PspPI	G!GNCC	15	83; 276; 637; 891; 1021; 1084; 1149; 1204; 1393; 1871; 3280; 3725; 3771; 3829; 3862
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	2317; 2389; 3895
PspPRI	!NNNNNNNNNNNNNNCTGRGG	2	2230; 3425
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	894; 3865
PstI	CTGCA!G	1	1377
PstNI	CAGNNN!CTG	2	3865; 4273
PsuI	R!GATCY	12	585; 1196; 1348; 1399; 1408; 2935; 3181; 3573; 3932; 3944; 4030; 4041
PsyI	GACN!NNGTC	1	2882
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	4	1041; 1104; 2262; 2870
RcaI	T!CATGA	2	2190; 3962
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	3	704; 926; 3279
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	3	1084; 1309; 1493
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	9	219; 244; 299; 332; 383; 540; 823; 1386; 3070
RsaNI	G!TAC	9	218; 243; 298; 331; 382; 539; 822; 1385; 3069
RseI	CAYNN!NNRTG	5	365; 712; 973; 991; 3201
RsrII	CG!GWCCG	1	3280
Rsr2I	CG!GWCCG	1	3280
SacI	GAGCT!C	1	1359
SacII	CCGC!GG	1	1391
SalI	G!TCGAC	1	1378
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	3108; 3318
SaqAI	T!TAA	15	7; 1465; 1526; 1647; 1668; 1679; 1691; 1702; 1719; 1817; 2088; 3907; 3921; 3926; 3978

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SatI	GC!NGC	36	636; 726; 729; 784; 984; 1137; 1182; 1185; 1541; 2060; 2082; 2096; 2534; 2673; 2725; 2736; 2826; 2831; 2868; 2909; 2996; 2999; 3002; 3238; 3334; 3375; 3389; 3503; 3842; 3857; 4068; 4274; 4277; 4342; 4485; 4640
Sau96I	G!GNCC	15	83; 276; 637; 891; 1021; 1084; 1149; 1204; 1393; 1871; 3280; 3725; 3771; 3829; 3862
Sau3AI	!GATC	23	585; 815; 1196; 1348; 1399; 1408; 1421; 2601; 2605; 2624; 2935; 3013; 3094; 3103; 3181; 3557; 3573; 3932; 3944; 4022; 4030; 4041; 4116
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1816; 2248
SchI	!NNNNNGACTC	5	404; 1337; 1823; 3429; 4306
SciI	CTC!GAG	1	1354
ScrFI	CC!NGG	19	90; 283; 874; 1202; 1396; 1397; 2300; 2355; 2372; 2768; 2928; 3151; 3541; 3730; 3833; 4305; 4523; 4536; 4657
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	6	726; 900; 2342; 2414; 2583; 4525
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2919; 3404
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	13	761; 833; 1304; 1359; 1396; 1955; 2710; 2803; 2877; 3067; 3129; 3839; 4372
SelI	!CGCG	20	58; 1032; 1185; 1257; 1275; 1388; 1650; 1686; 2062; 2082; 2106; 2137; 2828; 3129; 3567; 3651; 3714; 3783; 4056; 4637
SetI	ASST!	66	125; 137; 178; 261; 308; 342; 447; 552; 568; 667; 692; 758; 785; 796; 815; 955; 962; 973; 1043; 1106; 1174; 1268; 1283; 1288; 1359; 1365; 1454; 1475; 1484; 1496; 1545; 1712; 1827; 1839; 1882; 1919; 1969; 1992; 2116; 2264; 2359; 2552; 2665; 2793; 2872; 2883; 2955; 3026; 3070; 3330; 3476; 3520; 3851; 3882; 3941; 3984; 4127; 4148; 4247; 4384; 4399; 4418; 4430; 4474; 4520; 4571
SexAI	A!CCWGGT	1	2353
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	866; 908; 995; 1316; 1580; 2343; 2415; 3063; 3127; 3402
SfaNI	!NNNNNNNNNGATGC	5	357; 2722; 2977; 3193; 4585
SfcI	C!TRYAG	4	1373; 2099; 4226; 4417
SfiI	GGCCNNNN!NGGCC	1	2539
SfoI	GGC!GCC	1	2765
Sfr274I	C!TCGAG	1	1352
Sfr303I	CCGC!GG	1	1391
SfuI	TT!CGAA	2	1366; 3446
SgeI	CNNGNNNNNNNN!	192	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 652; 672; 699; 726; 744; 768; 783; 801; 825; 840; 854; 885; 898; 924; 948; 969; 983; 1005; 1023; 1041; 1054; 1074; 1093; 1107; 1152; 1176; 1198; 1213; 1227; 1242; 1259; 1276; 1290; 1311; 1325; 1344; 1364; 1401; 1418; 1471; 1500; 1542; 1625; 1663; 1699; 1783; 1805; 1837; 1874; 1892; 1911; 1926; 1968; 1985; 2002; 2037; 2051; 2068; 2090; 2114; 2138; 2203; 2217; 2255; 2271; 2311; 2324; 2343; 2366; 2383; 2396; 2415; 2445; 2466; 2483; 2506; 2541; 2568; 2599; 2621; 2647; 2669; 2688; 2716; 2752; 2771; 2794; 2808; 2828; 2841; 2855; 2874; 2888; 2907; 2939; 2953; 2966; 2992; 3023; 3036; 3053; 3070; 3084; 3101; 3119; 3134; 3162; 3178; 3197; 3219; 3235; 3258; 3277; 3302; 3321; 3341; 3368; 3392; 3425; 3444; 3472; 3486; 3552; 3576; 3591; 3614; 3635; 3652; 3700; 3727; 3741; 3770; 3794; 3827; 3844; 3864; 3877; 3890; 3948; 3975; 3994; 4024; 4049; 4069; 4083; 4108; 4126; 4163; 4201; 4230; 4258; 4272; 4292; 4307; 4328; 4342; 4361; 4379; 4395; 4435; 4455; 4482; 4500; 4521; 4534; 4547; 4564; 4588; 4611; 4643; 4668; 4695; 4717

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	168	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 626; 646; 673; 700; 718; 742; 762; 781; 799; 828; 859; 880; 898; 922; 943; 961; 979; 997; 1015; 1039; 1057; 1081; 1126; 1150; 1172; 1201; 1233; 1250; 1285; 1318; 1338; 1375; 1392; 1445; 1474; 1516; 1599; 1637; 1673; 1757; 1779; 1811; 1848; 1866; 1885; 1942; 1959; 1976; 2011; 2029; 2049; 2069; 2088; 2112; 2177; 2229; 2285; 2317; 2340; 2357; 2389; 2419; 2440; 2457; 2480; 2515; 2542; 2573; 2595; 2621; 2643; 2662; 2690; 2726; 2745; 2768; 2789; 2807; 2824; 2848; 2881; 2913; 2940; 2966; 2997; 3027; 3044; 3070; 3093; 3114; 3136; 3156; 3176; 3193; 3232; 3251; 3276; 3295; 3315; 3342; 3366; 3399; 3418; 3446; 3468; 3526; 3550; 3569; 3588; 3609; 3626; 3674; 3701; 3721; 3744; 3768; 3801; 3818; 3838; 3864; 3922; 3949; 3968; 3998; 4023; 4043; 4082; 4100; 4137; 4175; 4204; 4232; 4253; 4281; 4302; 4335; 4353; 4409; 4429; 4456; 4474; 4495; 4521; 4538; 4562; 4585; 4617; 4642; 4669; 4691; 4720
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	1391
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1911; 3698; 4491
SimI	!GACCC	5	106; 1064; 3192; 3760; 4008
SinI	G!GWCC	2	3280; 3725
SlaI	C!TCGAG	1	1352
SmaI	CCC!GGG	1	1397
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 712; 973; 991; 3201
SmlI	C!TYRAG	6	1352; 1358; 3155; 4037; 4314; 4576
SmoI	C!TYRAG	6	1352; 1358; 3155; 4037; 4314; 4576
SmuI	CCCGCNNNN!	11	93; 119; 286; 648; 850; 1312; 2086; 2441; 2462; 3658; 3790
SmuI	!NNNNNNNGCGGG	6	1383; 2017; 2887; 3424; 3562; 3709
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2334; 2406; 3169
Srfl	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 1368; 1514; 1578; 1656; 1682; 1693; 2340; 2412; 2504; 3922
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2585
SsiI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 641; 843; 906; 984; 1127; 1185; 1305; 1388; 2079; 2082; 2096; 2186; 2434; 2446; 2455; 2467; 2477; 2488; 2534; 2673; 2736; 3238; 3283; 3349; 3375; 3500; 3503; 3651; 3783; 4090; 4234; 4730
SsiI	G!CGG	26	370; 403; 528; 635; 1136; 1390; 2024; 2051; 2139; 2249; 2830; 2894; 2995; 2998; 3278; 3333; 3431; 3569; 3716; 3856; 4099; 4344; 4465; 4484; 4611; 4639
SspI	AAT!ATT	2	1672; 2225
SspDI	G!GCGCC	1	2763
SspD5I	GGTGANNNNNNNN!	5	376; 702; 1293; 3835; 3951
SspD5I	!NNNNNNNNNTCACC	7	698; 980; 1112; 1217; 1301; 1880; 2941
SstI	GAGCT!C	1	1359
SstII	CCGC!GG	1	1391
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 647; 849; 893; 1022; 1208; 1311; 1402; 1963; 2085; 2440; 2461; 2774; 3177; 3316; 3387; 3657; 3789; 4019; 4457
Sth132I	!NNNNNNNNNCGGG	19	15; 407; 470; 1382; 1964; 2016; 2117; 2844; 2886; 2919; 3423; 3532; 3561; 3708; 3812; 3843; 4296; 4340; 4548
Sth302II	CC!GG	22	602; 777; 1203; 1341; 1397; 1407; 1983; 2670; 2747; 2769; 2797; 2928; 3018; 3085; 3266; 3541; 3549; 3641; 4115; 4305; 4331; 4478
StrI	C!TCGAG	1	1352
StsI	GGATGNNNNNNNNNN!	5	635; 2632; 3089; 3114; 3568
StsI	!NNNNNNNNNNNNNNCATCC	2	1035; 2436

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StuI	AGG!CCT	1	2585
StyI	C!CWGG	6	360; 611; 2493; 2586; 3196; 3601
StyD4I	!CCNGG	19	88; 281; 872; 1200; 1394; 1395; 2298; 2353; 2370; 2766; 2926; 3149; 3539; 3728; 3831; 4303; 4521; 4534; 4655
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 912; 993; 1384; 1855; 3144; 3260; 3368; 3691; 4182; 4652; 4723
TaiI	ACGT!	16	125; 137; 178; 261; 342; 447; 758; 1268; 1827; 1839; 1882; 1992; 2883; 3070; 3851; 3984
TaqI	T!CGA	18	680; 902; 920; 1157; 1353; 1366; 1379; 1913; 2604; 2877; 3033; 3057; 3093; 3255; 3446; 3491; 3746; 4584
TaqII	GACCGANNNNNNNNNNN!	3	1784; 2801; 3469
TaqII	!NNNNNNNNNTCGGTC	1	3713
TaqII	CACCCANNNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	3	172; 2668; 3260
TasI	!AATT	11	18; 1368; 1514; 1578; 1656; 1682; 1693; 2340; 2412; 2504; 3922
TatI	W!GTACW	4	217; 297; 330; 381
TauI	GCSG!C	19	638; 986; 1139; 1187; 2084; 2098; 2536; 2675; 2738; 2833; 2998; 3001; 3240; 3336; 3377; 3505; 3859; 4487; 4642
TfiI	G!AWTC	6	1336; 3249; 3383; 3493; 3530; 4708
TliI	C!TCGAG	1	1352
TruII	T!TAA	15	7; 1465; 1526; 1647; 1668; 1679; 1691; 1702; 1719; 1817; 2088; 3907; 3921; 3926; 3978
Tru9I	T!TAA	15	7; 1465; 1526; 1647; 1668; 1679; 1691; 1702; 1719; 1817; 2088; 3907; 3921; 3926; 3978
TscAI	CASTGNN!	5	1610; 2893; 4003; 4274; 4287
TseI	G!CWGC	17	725; 728; 783; 1181; 1540; 2059; 2724; 2825; 2867; 2908; 3001; 3388; 3841; 4067; 4273; 4276; 4341
TsoI	TARCCANNNNNNNNNNN!	2	1736; 2083
TsoI	!NNNNNNNNNTGGYTA	2	1541; 3293
Tsp45I	!GTSAC	5	1215; 1281; 2053; 2884; 3190
Tsp509I	!AATT	11	18; 1368; 1514; 1578; 1656; 1682; 1693; 2340; 2412; 2504; 3922
TspDTI	ATGAANNNNNNNNNNN!	3	1522; 2823; 3527
TspDTI	!NNNNNNNNNTTCAT	6	26; 666; 1101; 3241; 3697; 3904
TspEI	!AATT	11	18; 1368; 1514; 1578; 1656; 1682; 1693; 2340; 2412; 2504; 3922
TspGWI	ACGGANNNNNNNNNNN!	1	3639
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1395
TspRI	CASTGNN!	5	1610; 2893; 4003; 4274; 4287
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2882
Tth111II	CAARCANNNNNNNNNNN!	2	1246; 4091
Tth111II	!NNNNNNNNNTGYTTG	3	3199; 4059; 4098
UnbI	!GGNCC	15	82; 275; 636; 890; 1020; 1083; 1148; 1203; 1392; 1870; 3279; 3724; 3770; 3828; 3861
Van9II	CCANNNN!NTGG	2	794; 1044
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	757; 4368
VpaK11AI	!GGWCC	2	3279; 3724
VpaK11BI	G!GWCC	2	3280; 3725
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	1368; 1578; 1682; 1693
XbaI	T!CTAGA	1	1411
XceI	RCATG!Y	5	1074; 2334; 2406; 3169; 4686
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1352
XhoII	R!GATCY	12	585; 1196; 1348; 1399; 1408; 2935; 3181; 3573; 3932; 3944; 4030; 4041
XmaI	C!CCGGG	1	1395

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XmaJI	C!CTAGG	2	2586; 3601
XmiI	GT!MKAC	1	1379
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	8	592; 1412; 1613; 2031; 2587; 3602; 3936; 4189
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2336; 2408; 4739