

pPhi-Yellow-dest1 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1661; 1866
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1949; 2905; 4694
AatI	AGG!CCT	1	2699
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	640
AccII	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1527; 1802; 2178; 2198; 2222; 2253; 2944; 3245; 3683; 3767; 3830; 3899; 4172; 4753
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2980
Acc36I	ACCTGCNNNN!	2	3146; 3596
Acc36I	!NNNNNNNNGCAGGT	1	2765
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	7	465; 645; 688; 877; 2031; 2877; 2912
AccB7I	CCANNNN!NTGG	1	1080
AccBSI	CCG!CTC	2	2302; 3491
AccBSI	GAG!CGG	3	1466; 2138; 3545
AceIII	CAGCTCNNNNNNN!	1	1834
AceIII	!NNNNNNNNNNGAGCTG	3	552; 895; 915
AciI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 649; 765; 996; 1320; 1365; 1408; 1525; 2193; 2196; 2210; 2300; 2548; 2560; 2569; 2581; 2591; 2602; 2648; 2787; 2850; 3352; 3397; 3463; 3489; 3614; 3617; 3765; 3897; 4204; 4348; 4844
AciI	G!CGG	31	370; 403; 528; 651; 686; 767; 1244; 1247; 1414; 1420; 1466; 2138; 2165; 2253; 2363; 2944; 3008; 3109; 3112; 3392; 3447; 3545; 3683; 3830; 3970; 4213; 4458; 4579; 4598; 4725; 4753
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	11	668; 1389; 1513; 1526; 2746; 3057; 3303; 3695; 4054; 4152; 4238
AclWI	!NNNNNGATCC	7	580; 655; 705; 3122; 3666; 4053; 4150
AcoI	Y!GGCCR	9	747; 1050; 1071; 1211; 1522; 2784; 2958; 3349; 3376
AcsI	R!AATY	4	629; 1692; 1796; 1807
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	4	931; 1174; 3024; 3456
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	741; 4254
AcvI	CAC!GTG	3	1077; 1260; 1290
AcyI	GR!CGYC	9	122; 175; 258; 444; 689; 878; 2878; 3580; 3659
AdeI	CACNNN!GTG	1	1994
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 647; 898; 1030; 1123; 1270; 3184
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	23	49; 720; 771; 845; 1002; 1080; 1243; 1413; 1890; 2216; 2608; 2859; 3403; 3684; 3716; 3848; 3883; 3933; 3965; 4318; 4597; 4763; 4781
AflIII	C!TTAAG	1	1760
AflIII	A!CRYGT	1	4796
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	9	990; 1062; 1101; 1167; 2289; 2333; 2343; 2756; 4332
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	16	88; 281; 844; 854; 1052; 1376; 1457; 2412; 2467; 2484; 3263; 3842; 3945; 4635; 4648; 4769
AjuI	GAANNNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNTTC	0	

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AjuI	CCAANNNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	856
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2452; 2524
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	2	2418; 2490
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1960
AloI	!NNNNNNNGGANNNNNNGTTC	1	796
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	1	828
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1928
AluI	AG!CT	19	566; 618; 624; 909; 929; 1044; 1283; 1296; 1657; 1824; 2081; 2376; 2664; 2984; 3442; 4239; 4496; 4542; 4632
AluBI	AG!CT	19	566; 618; 624; 909; 929; 1044; 1283; 1296; 1657; 1824; 2081; 2376; 2664; 2984; 3442; 4239; 4496; 4542; 4632
AlwI	GGATCNNNN!	11	668; 1389; 1513; 1526; 2746; 3057; 3303; 3695; 4054; 4152; 4238
AlwI	!NNNNNGATCC	7	580; 655; 705; 3122; 3666; 4053; 4150
Alw21I	GWGCW!C	6	620; 853; 1259; 2991; 3181; 4486
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1336; 2302; 2720; 3739; 3867
Alw44I	G!TGCAC	2	1255; 4482
AlwNI	CAGNNN!CTG	2	3979; 4387
Ama87I	C!YCGRG	5	613; 656; 904; 1264; 1385
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNNN!TGC	4	1493; 2446; 2518; 3980
ApaLI	G!TGCAC	2	1255; 4482
ApeKI	G!CWGC	19	683; 929; 1022; 1190; 1440; 1486; 1654; 2173; 2838; 2939; 2981; 3022; 3115; 3502; 3955; 4181; 4387; 4390; 4455
ApoI	R!AATTY	4	629; 1692; 1796; 1807
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3393
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3187; 3840; 4678
AquI	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3277
AquI	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	878
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2706
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	3448
ArsI	GACNNNNMNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	29	586; 610; 661; 711; 1135; 1170; 1182; 1216; 1315; 1382; 1506; 1519; 1536; 2716; 2720; 2739; 3050; 3128; 3209; 3218; 3296; 3672; 3688; 4047; 4059; 4137; 4145; 4156; 4231
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2996
Asp700I	GAANN!NNTTC	1	916
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	2700; 3715
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	29	597; 691; 880; 959; 1000; 1162; 1352; 1354; 1425; 2144; 2152; 2178; 2200; 2209; 2222; 2253; 2872; 2880; 2944; 2981; 3247; 3507; 3683; 3769; 4172; 4281; 4455; 4555; 4622
AspS9I	G!GNCC	12	83; 276; 654; 901; 1249; 1473; 1985; 3394; 3839; 3885; 3943; 3976
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 3560
AsuC2I	CC!SGG	6	657; 658; 2882; 3042; 3655; 4419
AsuHPI	GGTGANNNNNNNN!	5	376; 870; 1017; 3949; 4065
AsuHPI	!NNNNNNNTCACC	6	957; 1098; 1309; 1471; 1995; 3056
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	5	613; 656; 904; 1264; 1385

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AvaII	G!GWCC	3	1473; 3394; 3839
AviII	TGC!GCA	1	2980
AvrII	C!CTAGG	2	2700; 3715
AxyI	CC!TNAGG	2	2358; 3990
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	9	657; 839; 845; 1259; 1265; 1458; 2824; 2917; 4486
BalI	TGG!CCA	4	749; 1052; 1073; 2960
BamHI	G!GATCC	1	660
BanI	G!GYRCC	7	465; 645; 688; 877; 2031; 2877; 2912
BanII	GRGCY!C	5	620; 657; 2069; 3243; 3953
BanIII	AT!CGAT	1	2718
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	1	936
BarI	!NNNNNNNGTANNNNNNNCTTC	0	
BarI	GTANNNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	1	904
BasI	CCANNNN!NTGG	1	1080
BauI	C!ACGAG	3	1177; 3596; 4623
BauI	C!TCGTG	1	3470
BbeI	GGCG!C	3	692; 881; 2881
Bbr7I	GAAGACNNNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	3	1077; 1260; 1290
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	4	936; 2448; 2520; 3283
BbvI	GCAGCNNNNNNNN!	10	695; 1034; 1202; 1498; 1666; 2951; 2993; 3514; 3967; 4467
BbvI	!NNNNNNNNNNNNNGCTGC	8	916; 1427; 2160; 2825; 3009; 3102; 4168; 4374
Bbv12I	GWGCW!C	6	620; 853; 1259; 2991; 3181; 4486
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	970; 1246; 2008; 2572; 3098; 3600
BccI	!NNNNNGATGG	10	723; 739; 934; 973; 1063; 1426; 1464; 1976; 2756; 3184
BceAI	ACGGCNNNNNNNNNNNN!	7	720; 795; 891; 915; 1164; 3304; 3791
BceAI	!NNNNNNNNNNNNNGCCGT	4	1339; 2019; 2837; 4296
BceFI	ACGGCNNNNNNNNNNNN!	7	720; 795; 891; 915; 1164; 3304; 3791
BceFI	!NNNNNNNNNNNNNGCCGT	4	1340; 2020; 2838; 4297
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2307; 3097; 4598
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	6	657; 658; 2882; 3042; 3655; 4419
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNNN!	1	4731
BdaI	!NNNNNNNNNNNTGANNNNNNNTCA	1	4697
BfaI	C!TAG	9	592; 1502; 1533; 1727; 2145; 2701; 3716; 4050; 4303
BfiI	ACTGGGNNNNN!	1	2827
BfiI	!NNNNCCCAGT	4	289; 804; 876; 2579
BfmI	C!TRYAG	5	634; 1484; 2213; 4340; 4531
BfoI	RGCGC!Y	8	598; 692; 881; 1163; 2145; 2153; 2881; 4556
BfrI	C!TTAAG	1	1760
BfuI	GTATCCNNNNNN!	3	2307; 3097; 4598
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3146; 3596
BfuAI	!NNNNNNNNNGCAGGT	1	2765
BfuCI	!GATC	29	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1381; 1505; 1518; 1535; 2715; 2719; 2738; 3049; 3127; 3208; 3217; 3295; 3671; 3687; 4046; 4058; 4136; 4144; 4155; 4230
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2653
BglII	A!GATCT	2	609; 1169

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BisI	GC!NGC	39	684; 687; 930; 1023; 1191; 1245; 1248; 1365; 1421; 1441; 1487; 1525; 1655; 2174; 2196; 2210; 2648; 2787; 2839; 2850; 2940; 2945; 2982; 3023; 3110; 3116; 3352; 3448; 3489; 3503; 3617; 3956; 3971; 4182; 4388; 4391; 4456; 4599; 4754
BlnI	C!CTAGG	2	2700; 3715
BlpI	GC!TNAGC	1	1297
BlsI	GCN!GC	39	685; 688; 931; 1024; 1192; 1246; 1249; 1366; 1422; 1442; 1488; 1526; 1656; 2175; 2197; 2211; 2649; 2788; 2840; 2851; 2941; 2946; 2983; 3024; 3111; 3117; 3353; 3449; 3490; 3504; 3618; 3957; 3972; 4183; 4389; 4392; 4457; 4600; 4755
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	1473; 3394; 3839
Bme1390I	CC!NGG	22	90; 283; 657; 658; 846; 856; 1054; 1378; 1459; 2414; 2469; 2486; 2882; 3042; 3265; 3655; 3844; 3947; 4419; 4637; 4650; 4771
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	5	613; 656; 904; 1264; 1385
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	12	84; 277; 655; 902; 1250; 1474; 1986; 3395; 3840; 3886; 3944; 3977
BmiI	GGN!NCC	21	467; 647; 655; 662; 690; 879; 903; 1251; 2033; 2054; 2066; 2257; 2418; 2490; 2879; 2914; 3762; 3841; 3886; 4729; 4768
BmrI	ACTGGGNNNNN!	1	2827
BmrI	!NNNNCCCAGT	4	289; 804; 876; 2579
BmrFI	CC!NGG	22	90; 283; 657; 658; 846; 856; 1054; 1378; 1459; 2414; 2469; 2486; 2882; 3042; 3265; 3655; 3844; 3947; 4419; 4637; 4650; 4771
BmsI	GCATCNNNNN!	7	770; 1694; 2457; 2529; 3177; 3241; 3516
BmsI	!NNNNNNNNNGATGC	7	357; 774; 795; 2836; 3091; 3307; 4699
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2827
BmuI	!NNNNCCCAGT	4	289; 804; 876; 2579
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2667; 3566
BpI	!NNNNNNNNGAGNNNNNCTC	2	2635; 3534
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	867; 1114; 3718
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	3661
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 3560
Bpu1102I	GC!TNAGC	1	1297
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4172; 4711
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	604; 3254; 4413
BpuMI	CC!SGG	6	657; 658; 2882; 3042; 3655; 4419
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1336; 3867
Bsa29I	AT!CGAT	1	2718
BsaAI	YAC!GTR	8	340; 720; 948; 1077; 1260; 1290; 1994; 3182
BsaBI	GATNN!NNATC	2	1540; 2737
BsaHI	GR!CGYC	9	122; 175; 258; 444; 689; 878; 2878; 3580; 3659
BsaJI	C!CNNGG	25	360; 649; 656; 702; 765; 844; 854; 1001; 1053; 1355; 1377; 1398; 1457; 2412; 2484; 2607; 2642; 2651; 2700; 3041; 3310; 3715; 3843; 3946; 4636
BsaMI	GAATGCN!	1	1629
BsaMI	G!CATTC	1	1722
BsaWI	W!CCGGW	6	600; 666; 2909; 3753; 4443; 4590
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1958
BsaXI	!NNNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1928

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	1879; 3786
Bsc4I	CCNNNNN!NNGG	23	49; 720; 771; 845; 1002; 1080; 1243; 1413; 1890; 2216; 2608; 2859; 3403; 3684; 3716; 3848; 3883; 3933; 3965; 4318; 4597; 4763; 4781
BscAI	GCATCNNNN!	7	769; 1693; 2456; 2528; 3176; 3240; 3515
BscAI	!NNNNNNGATGC	7	360; 777; 798; 2839; 3094; 3310; 4702
BseI	ACTGGN!	3	2822; 3023; 4269
BseI	C!CAGT	7	295; 810; 882; 1907; 2585; 4381; 4394
Bse8I	GATNN!NNATC	2	1540; 2737
Bse2II	CC!TNAGG	2	2358; 3990
Bse118I	R!CCGGY	8	666; 826; 1186; 1410; 2095; 3197; 3378; 3661
BseAI	T!CCGGA	0	
BseBI	CC!WGG	16	90; 283; 846; 856; 1054; 1378; 1459; 2414; 2469; 2486; 3265; 3844; 3947; 4637; 4650; 4771
BseCI	AT!CGAT	1	2718
BseDI	C!CNNGG	25	360; 649; 656; 702; 765; 844; 854; 1001; 1053; 1355; 1377; 1398; 1457; 2412; 2484; 2607; 2642; 2651; 2700; 3041; 3310; 3715; 3843; 3946; 4636
Bse3DI	GCAATGNN!	1	3111
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	10	750; 810; 1074; 1311; 1434; 1475; 2738; 3195; 3220; 3674
BseGI	!CATCC	2	761; 2564
BseJI	GATNN!NNATC	2	1540; 2737
BseLI	CCNNNNN!NNGG	23	49; 720; 771; 845; 1002; 1080; 1243; 1413; 1890; 2216; 2608; 2859; 3403; 3684; 3716; 3848; 3883; 3933; 3965; 4318; 4597; 4763; 4781
BseMI	GCAATGNN!	1	3111
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	620; 4004
BseMII	!NNNNNNNNCTGAG	6	1288; 2349; 2651; 3532; 4104; 4513
BseNI	ACTGGN!	3	2822; 3023; 4269
BseNI	C!CAGT	7	295; 810; 882; 1907; 2585; 4381; 4394
BsePI	G!CGCGC	1	1350
BseRI	GAGGAGNNNNNNNNNN!	1	2696
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	9	657; 839; 845; 1259; 1265; 1458; 2824; 2917; 4486
BseXI	GCAGCNNNNNNNN!	10	695; 1034; 1202; 1498; 1666; 2951; 2993; 3514; 3967; 4467
BseXI	!NNNNNNNNNNNGCTGC	8	916; 1427; 2160; 2825; 3009; 3102; 4168; 4374
BseX3I	C!GGCCG	2	1522; 2784
BseYI	C!CCAGC	3	2421; 2493; 4492
BseYI	G!CTGGG	2	1080; 3382
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	970
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	804
Bsh1236I	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1527; 1802; 2178; 2198; 2222; 2253; 2944; 3245; 3683; 3767; 3830; 3899; 4172; 4753
Bsh1285I	CGRY!CG	4	671; 1525; 2787; 4462
BshFI	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1524; 1844; 1986; 2641; 2647; 2656; 2699; 2786; 2960; 3351; 3378; 3887; 3944; 3977; 4322; 4756; 4774; 4785
BshNI	G!GYRCC	7	465; 645; 688; 877; 2031; 2877; 2912
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	2718
BsiEI	CGRY!CG	4	671; 1525; 2787; 4462
BsiHKAI	GWGCW!C	6	620; 853; 1259; 2991; 3181; 4486
BsiHKCI	C!YCGRG	5	613; 656; 904; 1264; 1385
BsiSI	C!CGG	22	601; 657; 667; 827; 1187; 1411; 2096; 2783; 2860; 2882; 2910; 3041; 3131; 3198; 3379; 3654; 3662; 3754; 4228; 4418; 4444; 4591
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	23	49; 720; 771; 845; 1002; 1080; 1243; 1413; 1890; 2216; 2608; 2859; 3403; 3684; 3716; 3848; 3883; 3933; 3965; 4318; 4597; 4763; 4781
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3029; 3561; 3670
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2394; 2466; 2530; 3825
BsmI	GAATGCN!	1	1629

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BsmI	G!CATTC	1	1722
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	1336; 2302; 2720; 3739; 3867
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3029; 3561; 3670
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2394; 2466; 2530; 3825
BsnI	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1524; 1844; 1986; 2641; 2647; 2656; 2699; 2786; 2960; 3351; 3378; 3887; 3944; 3977; 4322; 4756; 4774; 4785
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	1336; 3867
BsoBI	C!YCGRG	5	613; 656; 904; 1264; 1385
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 1398; 2607; 3310
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3681
Bsp24I	!NNNNNNCCANNNNNGTC	2	4102; 4280
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4134; 4312
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3649
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 3560
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	29	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1381; 1505; 1518; 1535; 2715; 2719; 2738; 3049; 3127; 3208; 3217; 3295; 3671; 3687; 4046; 4058; 4136; 4144; 4155; 4230
Bsp1286I	GDGCH!C	16	620; 657; 839; 845; 853; 1259; 1265; 1458; 2069; 2824; 2917; 2991; 3181; 3243; 3953; 4486
Bsp1407I	T!GTACA	2	1028; 1121
Bsp1720I	GC!TNAGC	1	1297
BspACI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 649; 765; 996; 1320; 1365; 1408; 1525; 2193; 2196; 2210; 2300; 2548; 2560; 2569; 2581; 2591; 2602; 2648; 2787; 2850; 3352; 3397; 3463; 3489; 3614; 3617; 3765; 3897; 4204; 4348; 4844
BspACI	G!CGG	31	370; 403; 528; 651; 686; 767; 1244; 1247; 1414; 1420; 1466; 2138; 2165; 2253; 2363; 2944; 3008; 3109; 3112; 3392; 3447; 3545; 3683; 3830; 3970; 4213; 4458; 4579; 4598; 4725; 4753
BspCNI	CTCAGNNNNNNNN!	2	619; 4003
BspCNI	!NNNNNNCTGAG	6	1289; 2350; 2652; 3533; 4105; 4514
BspDI	AT!CGAT	1	2718
BspD6I	GACTCNNNN!	6	418; 612; 1537; 1951; 3557; 4434
BspD6I	!NNNNNGAGTC	2	1914; 2346
BspEI	T!CCGGA	0	
BspFNI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1527; 1802; 2178; 2198; 2222; 2253; 2944; 3245; 3683; 3767; 3830; 3899; 4172; 4753
BspHI	T!CATGA	2	2304; 4076
BspLI	GGN!NCC	21	467; 647; 655; 662; 690; 879; 903; 1251; 2033; 2054; 2066; 2257; 2418; 2490; 2879; 2914; 3762; 3841; 3886; 4729; 4768
BspMI	ACCTGCNNNN!	2	3146; 3596
BspMI	!NNNNNNNGCAGGT	1	2765
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	11	668; 1389; 1513; 1526; 2746; 3057; 3303; 3695; 4054; 4152; 4238
BspPI	!NNNNNGATCC	7	580; 655; 705; 3122; 3666; 4053; 4150
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	3	1150; 3222; 3432
BspTI	C!TTAAG	1	1760
BspT104I	TT!CGAA	2	627; 3560
BspT107I	G!GYRCC	7	465; 645; 688; 877; 2031; 2877; 2912
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1336; 3867
BsrI	ACTGGN!	3	2822; 3023; 4269
BsrI	C!CAGT	7	295; 810; 882; 1907; 2585; 4381; 4394
BsrBI	CCG!CTC	2	2302; 3491
BsrBI	GAG!CGG	3	1466; 2138; 3545
BsrDI	GCAATGNN!	1	3111
BsrDI	!CATTGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrFI	R!CCGGY	8	666; 826; 1186; 1410; 2095; 3197; 3378; 3661
BsrGI	T!GTACA	2	1028; 1121
BsrSI	ACTGGN!	3	2822; 3023; 4269
BsrSI	C!CAGT	7	295; 810; 882; 1907; 2585; 4381; 4394
BssAI	R!CCGGY	8	666; 826; 1186; 1410; 2095; 3197; 3378; 3661
BssECI	C!CNNGG	25	360; 649; 656; 702; 765; 844; 854; 1001; 1053; 1355; 1377; 1398; 1457; 2412; 2484; 2607; 2642; 2651; 2700; 3041; 3310; 3715; 3843; 3946; 4636
BssHII	G!CGCGC	1	1350
BssKI	!CCNGG	22	88; 281; 655; 656; 844; 854; 1052; 1376; 1457; 2412; 2467; 2484; 2880; 3040; 3263; 3653; 3842; 3945; 4417; 4635; 4648; 4769
BssMI	!GATC	29	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1381; 1505; 1518; 1535; 2715; 2719; 2738; 3049; 3127; 3208; 3217; 3295; 3671; 3687; 4046; 4058; 4136; 4144; 4155; 4230
BssNI	GR!CGYC	9	122; 175; 258; 444; 689; 878; 2878; 3580; 3659
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1177; 3596; 4623
BssSI	C!TCGTG	1	3470
BssTII	C!CWWGG	6	360; 1398; 2607; 2700; 3310; 3715
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	1150; 2345; 3222; 3432
Bst98I	C!TTAAG	1	1760
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 689; 878; 2878; 3580; 3659
BstAFI	C!TTAAG	1	1760
BstAPI	GCANNNN!NTGC	4	1492; 2445; 2517; 3979
BstAUI	T!GTACA	2	1028; 1121
BstBI	TT!CGAA	2	627; 3560
Bst2BI	C!ACGAG	3	1177; 3596; 4623
Bst2BI	C!TCGTG	1	3470
BstBAI	YAC!GTR	8	340; 720; 948; 1077; 1260; 1290; 1994; 3182
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 645; 1347; 1477; 1969; 3258; 3374; 3482; 3805; 4296; 4766; 4837
BstC8I	GCN!NGC	34	86; 279; 593; 653; 789; 934; 1188; 1352; 1412; 1438; 2097; 2140; 2154; 2427; 2446; 2499; 2518; 2772; 2958; 3177; 3243; 3249; 3281; 3322; 3326; 3380; 3663; 3850; 3897; 3953; 3975; 4186; 4746; 4783
BstDEI	C!TNAG	8	606; 1297; 2358; 2660; 3541; 3990; 4113; 4522
BstDSI	C!CRYGG	8	360; 649; 702; 765; 1355; 1398; 2607; 3310
BstEII	G!GTNACC	2	858; 1005
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	10	750; 810; 1074; 1311; 1434; 1475; 2738; 3195; 3220; 3674
BstF5I	!CATCC	2	761; 2564
BstFNI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1527; 1802; 2178; 2198; 2222; 2253; 2944; 3245; 3683; 3767; 3830; 3899; 4172; 4753
BstH2I	RGCGC!Y	8	598; 692; 881; 1163; 2145; 2153; 2881; 4556
BstHHI	GCG!C	29	597; 691; 880; 959; 1000; 1162; 1352; 1354; 1425; 2144; 2152; 2178; 2200; 2209; 2222; 2253; 2872; 2880; 2944; 2981; 3247; 3507; 3683; 3769; 4172; 4281; 4455; 4555; 4622
BstKTI	GAT!C	29	588; 612; 663; 713; 1137; 1172; 1184; 1218; 1317; 1384; 1508; 1521; 1538; 2718; 2722; 2741; 3052; 3130; 3211; 3220; 3298; 3674; 3690; 4049; 4061; 4139; 4147; 4158; 4233
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	5	1336; 2302; 2720; 3739; 3867
BstMBI	!GATC	29	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1381; 1505; 1518; 1535; 2715; 2719; 2738; 3049; 3127; 3208; 3217; 3295; 3671; 3687; 4046; 4058; 4136; 4144; 4155; 4230
BstMCI	CGRY!CG	4	671; 1525; 2787; 4462
BstMWI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 773; 788; 827; 884; 1157; 1196; 1420; 1492; 2105; 2135; 2162; 2204; 2445; 2517; 2568; 2647; 2869; 2953; 2976; 3115; 3238; 3321; 3588; 3775; 3979; 4178; 4750
BstNI	CC!WGG	16	90; 283; 846; 856; 1054; 1378; 1459; 2414; 2469; 2486; 3265; 3844; 3947; 4637; 4650; 4771
BstNSI	RCATG!Y	5	936; 2448; 2520; 3283; 4800

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstOI	CC!WGG	16	90; 283; 846; 856; 1054; 1378; 1459; 2414; 2469; 2486; 3265; 3844; 3947; 4637; 4650; 4771
BstPI	G!GTNACC	2	858; 1005
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	22	88; 281; 655; 656; 844; 854; 1052; 1376; 1457; 2412; 2467; 2484; 2880; 3040; 3263; 3653; 3842; 3945; 4417; 4635; 4648; 4769
BstSFI	C!TRYAG	5	634; 1484; 2213; 4340; 4531
BstSLI	GKGCM!C	9	657; 839; 845; 1259; 1265; 1458; 2824; 2917; 4486
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1527; 1802; 2178; 2198; 2222; 2253; 2944; 3245; 3683; 3767; 3830; 3899; 4172; 4753
Bst2UI	CC!WGG	16	90; 283; 846; 856; 1054; 1378; 1459; 2414; 2469; 2486; 3265; 3844; 3947; 4637; 4650; 4771
BstV1I	GCAGCNNNNNNNN!	10	695; 1034; 1202; 1498; 1666; 2951; 2993; 3514; 3967; 4467
BstV1I	!NNNNNNNNNNNGCTGC	8	916; 1427; 2160; 2825; 3009; 3102; 4168; 4374
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 609; 660; 710; 1169; 1381; 3049; 3295; 3687; 4046; 4058; 4144; 4155
BstYI	R!GATCY	13	585; 609; 660; 710; 1169; 1381; 3049; 3295; 3687; 4046; 4058; 4144; 4155
BstZI	C!GGCCG	2	1522; 2784
BstZ17I	GTA!TAC	0	
BsuI	GATCCNNNNNN!	3	2307; 3097; 4598
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2718
Bsu36I	CC!TNAGG	2	2358; 3990
BsuRI	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1524; 1844; 1986; 2641; 2647; 2656; 2699; 2786; 2960; 3351; 3378; 3887; 3944; 3977; 4322; 4756; 4774; 4785
BsuTUI	AT!CGAT	1	2718
BtgI	C!CRYGG	8	360; 649; 702; 765; 1355; 1398; 2607; 3310
BtgZI	GCGATGNNNNNNNNNN!	6	752; 797; 845; 992; 1995; 3330
BtgZI	!NNNNNNNNNNNNNNNNCATCGC	3	334; 3149; 3493
BthCI	GCNG!C	39	686; 689; 932; 1025; 1193; 1247; 1250; 1367; 1423; 1443; 1489; 1527; 1657; 2176; 2198; 2212; 2650; 2789; 2841; 2852; 2942; 2947; 2984; 3025; 3112; 3118; 3354; 3450; 3491; 3505; 3619; 3958; 3973; 4184; 4390; 4393; 4458; 4601; 4756
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	1113; 1717
BtsCI	GGATGNN!	10	750; 810; 1074; 1311; 1434; 1475; 2738; 3195; 3220; 3674
BtsCI	!CATCC	2	761; 2564
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3146; 3596
BveI	!NNNNNNNNGCAGGT	1	2765
Cac8I	GCN!NGC	34	86; 279; 593; 653; 789; 934; 1188; 1352; 1412; 1438; 2097; 2140; 2154; 2427; 2446; 2499; 2518; 2772; 2958; 3177; 3243; 3249; 3281; 3322; 3326; 3380; 3663; 3850; 3897; 3953; 3975; 4186; 4746; 4783
CaiI	CAGNNN!CTG	2	3979; 4387
CciI	T!CATGA	2	2304; 4076
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 1209; 1242; 3167; 3172; 3370; 3511
CdiI	C!GATG	7	738; 783; 831; 939; 978; 1981; 3316
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4750
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2539; 2581
CelII	GC!TNAGC	1	1297
CfoI	GCG!C	29	597; 691; 880; 959; 1000; 1162; 1352; 1354; 1425; 2144; 2152; 2178; 2200; 2209; 2222; 2253; 2872; 2880; 2944; 2981; 3247; 3507; 3683; 3769; 4172; 4281; 4455; 4555; 4622
CfrI	Y!GGCCR	9	747; 1050; 1071; 1211; 1522; 2784; 2958; 3349; 3376
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	8	666; 826; 1186; 1410; 2095; 3197; 3378; 3661

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cfr13I	G!GNCC	12	83; 276; 654; 901; 1249; 1473; 1985; 3394; 3839; 3885; 3943; 3976
Cfr42I	CCGC!GG	2	652; 768
ChaI	GATC!	29	589; 613; 664; 714; 1138; 1173; 1185; 1219; 1318; 1385; 1509; 1522; 1539; 2719; 2723; 2742; 3053; 3131; 3212; 3221; 3299; 3675; 3691; 4050; 4062; 4140; 4148; 4159; 4234
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	6	1138; 1470; 2695; 4135; 4235; 4313
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2362; 2457; 3649; 4199; 4754
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2396; 2491; 3683; 4233; 4788
CjeI	!NNNNNNNNCCANNNNNNGT	6	1104; 1436; 2661; 4101; 4201; 4279
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	2	4135; 4313
CjePI	!NNNNNNNNNGANNNNNNNTGG	4	257; 1032; 3649; 4248
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	4	290; 1065; 3682; 4281
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	4102; 4280
Clal	AT!CGAT	1	2718
CpoI	CG!GWCCG	1	3394
CseI	GACGCNNNNN!	3	526; 3588; 3667
CseI	!NNNNNNNNNNNGCGTC	3	2211; 4106; 4684
CsiI	A!CCWGGT	1	2467
CspI	CG!GWCCG	1	3394
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 897; 1029; 1122; 1269; 3183
Csp45I	TT!CGAA	2	627; 3560
CspAI	A!CCGGT	1	666
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	2158; 3767
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	20	301; 361; 678; 933; 1278; 1399; 1446; 2305; 2445; 2517; 2608; 2749; 3094; 3280; 3311; 3337; 3693; 4077; 4797; 4848
CviJI	RG!CY	95	42; 84; 93; 277; 566; 618; 624; 655; 749; 776; 902; 909; 929; 944; 1044; 1052; 1058; 1073; 1141; 1151; 1213; 1250; 1283; 1296; 1334; 1397; 1403; 1489; 1524; 1547; 1657; 1824; 1844; 1986; 2067; 2081; 2095; 2376; 2417; 2489; 2612; 2641; 2647; 2656; 2664; 2687; 2699; 2705; 2786; 2803; 2811; 2838; 2863; 2947; 2956; 2960; 2984; 3022; 3098; 3115; 3134; 3197; 3241; 3251; 3268; 3351; 3378; 3382; 3419; 3442; 3458; 3638; 3665; 3726; 3848; 3887; 3944; 3951; 3958; 3977; 3988; 4239; 4268; 4311; 4322; 4387; 4466; 4491; 4496; 4542; 4632; 4730; 4756; 4774; 4785
CviKI-1	RG!CY	95	42; 84; 93; 277; 566; 618; 624; 655; 749; 776; 902; 909; 929; 944; 1044; 1052; 1058; 1073; 1141; 1151; 1213; 1250; 1283; 1296; 1334; 1397; 1403; 1489; 1524; 1547; 1657; 1824; 1844; 1986; 2067; 2081; 2095; 2376; 2417; 2489; 2612; 2641; 2647; 2656; 2664; 2687; 2699; 2705; 2786; 2803; 2811; 2838; 2863; 2947; 2956; 2960; 2984; 3022; 3098; 3115; 3134; 3197; 3241; 3251; 3268; 3351; 3378; 3382; 3419; 3442; 3458; 3638; 3665; 3726; 3848; 3887; 3944; 3951; 3958; 3977; 3988; 4239; 4268; 4311; 4322; 4387; 4466; 4491; 4496; 4542; 4632; 4730; 4756; 4774; 4785
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 897; 1029; 1122; 1269; 3183
DdeI	C!TNAG	8	606; 1297; 2358; 2660; 3541; 3990; 4113; 4522
DinI	GGC!GCC	3	690; 879; 2879
DpnI	GA!TC	29	587; 611; 662; 712; 1136; 1171; 1183; 1217; 1316; 1383; 1507; 1520; 1537; 2717; 2721; 2740; 3051; 3129; 3210; 3219; 3297; 3673; 3689; 4048; 4060; 4138; 4146; 4157; 4232
DpnII	!GATC	29	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1381; 1505; 1518; 1535; 2715; 2719; 2738; 3049; 3127; 3208; 3217; 3295; 3671; 3687; 4046; 4058; 4136; 4144; 4155; 4230
DraI	TTT!AAA	3	1580; 4022; 4041
DraII	RG!GNCCY	1	3976
DraIII	CACNN!GTG	1	1994
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 920; 4358
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	1949; 2905; 4694

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1949; 2905; 4694
EaeI	Y!GGCCR	9	747; 1050; 1071; 1211; 1522; 2784; 2958; 3349; 3376
EagI	C!GGCCG	2	1522; 2784
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	1150; 2345; 3222; 3432
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	4	1150; 2345; 3222; 3432
EciI	GGCGGANNNNNNNNNNNN!	4	2378; 3407; 4594; 4740
EciI	!NNNNNNNNNTCCGCC	4	496; 2549; 2570; 2591
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	2	1522; 2784
Eco24I	GRGCY!C	5	620; 657; 2069; 3243; 3953
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1336; 3867
Eco32I	GAT!ATC	1	1392
Eco47I	G!GWCC	3	1473; 3394; 3839
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1522; 2784
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	931; 1174; 3024; 3456
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	741; 4254
Eco72I	CAC!GTG	3	1077; 1260; 1290
Eco81I	CC!TNAGG	2	2358; 3990
Eco88I	C!YCGRG	5	613; 656; 904; 1264; 1385
Eco91I	G!GTNACC	2	858; 1005
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 1398; 2607; 2700; 3310; 3715
Eco147I	AGG!CCT	1	2699
EcoHI	!CCSGG	6	655; 656; 2880; 3040; 3653; 4417
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	7	867; 931; 1114; 1174; 3024; 3456; 3718
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	741; 3661; 4254
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	2	858; 1005
Eco0109I	RG!GNCCY	1	3976
EcoRI	G!AATC	1	629
EcoRII	!CCWGG	16	88; 281; 844; 854; 1052; 1376; 1457; 2412; 2467; 2484; 3263; 3842; 3945; 4635; 4648; 4769
EcoRV	GAT!ATC	1	1392
EcoT14I	C!CWWGG	6	360; 1398; 2607; 2700; 3310; 3715
EcoT22I	ATGCA!T	3	2450; 2522; 4853
EcoT38I	GRGCY!C	5	620; 657; 2069; 3243; 3953
Eco53kI	GAG!CTC	1	618
EgeI	GGC!GCC	3	690; 879; 2879
EheI	GGC!GCC	3	690; 879; 2879
ErhI	C!CWWGG	6	360; 1398; 2607; 2700; 3310; 3715
EsaBC3I	TC!GA	17	615; 628; 641; 972; 1014; 1387; 2028; 2719; 2992; 3148; 3172; 3208; 3370; 3561; 3606; 3861; 4699
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	20	304; 364; 681; 936; 1281; 1402; 1449; 2308; 2448; 2520; 2611; 2752; 3097; 3283; 3314; 3340; 3696; 4080; 4800; 4851
Fail	YA!TR	57	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 934; 1279; 1330; 1400; 1447; 1540; 1550; 1616; 1661; 1866; 2294; 2306; 2437; 2446; 2509; 2518; 2542; 2609; 2633; 2750; 2814; 3095; 3120; 3281; 3312; 3338; 3410; 3626; 3694; 3772; 3824; 3985; 4002; 4004; 4006; 4078; 4356; 4545; 4661; 4734; 4798; 4849
Fail	AAGNNNNNCTNNNNNNNNNNNN!	2	1179; 3218
Fail	!NNNNNNNNAAGNNNNNCTT	2	1147; 3186
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3029; 3561; 3670
FaqI	!NNNNNNNNNNNNNGTCCC	4	2394; 2466; 2530; 3825

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIII	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1524; 1844; 1986; 2641; 2647; 2656; 2699; 2786; 2960; 3351; 3378; 3887; 3944; 3977; 4322; 4756; 4774; 4785
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	3	1494; 1553; 3074
HaeIV	!NNNNNNNNNGAYNNNNNRTC	3	1460; 1519; 3040
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	3	1493; 1552; 3073
HaeIV	!NNNNNNNGAYNNNNNRTC	3	1462; 1521; 3042
HapII	C!CGG	22	601; 657; 667; 827; 1187; 1411; 2096; 2783; 2860; 2882; 2910; 3041; 3131; 3198; 3379; 3654; 3662; 3754; 4228; 4418; 4444; 4591
HgaI	GACGCNNNNN!	3	526; 3588; 3667
HgaI	!NNNNNNNNNNGCGTC	3	2211; 4106; 4684
HhaI	GCG!C	29	597; 691; 880; 959; 1000; 1162; 1352; 1354; 1425; 2144; 2152; 2178; 2200; 2209; 2222; 2253; 2872; 2880; 2944; 2981; 3247; 3507; 3683; 3769; 4172; 4281; 4455; 4555; 4622
HinI	GR!CGYC	9	122; 175; 258; 444; 689; 878; 2878; 3580; 3659
HinIII	CATG!	20	304; 364; 681; 936; 1281; 1402; 1449; 2308; 2448; 2520; 2611; 2752; 3097; 3283; 3314; 3340; 3696; 4080; 4800; 4851
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1493; 1552; 3073
Hin4I	!NNNNNNNNGABNNNNNRTC	4	1461; 1520; 3041; 3071
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	4	1493; 1552; 3073; 3103
Hin4I	!NNNNNNNNGAYNNNNNVTC	3	1461; 1520; 3041
Hin6I	G!CGC	29	595; 689; 878; 957; 998; 1160; 1350; 1352; 1423; 2142; 2150; 2176; 2198; 2207; 2220; 2251; 2870; 2878; 2942; 2979; 3245; 3505; 3681; 3767; 4170; 4279; 4453; 4553; 4620
HinP1I	G!CGC	29	595; 689; 878; 957; 998; 1160; 1350; 1352; 1423; 2142; 2150; 2176; 2198; 2207; 2220; 2251; 2870; 2878; 2942; 2979; 3245; 3505; 3681; 3767; 4170; 4279; 4453; 4553; 4620
HincII	GTY!RAC	2	641; 1641
HindII	GTY!RAC	2	641; 1641
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	14	410; 604; 1089; 1529; 1921; 1943; 2353; 3363; 3497; 3549; 3607; 3644; 4426; 4822
HpaI	GTT!AAC	1	1641
HpaII	C!CGG	22	601; 657; 667; 827; 1187; 1411; 2096; 2783; 2860; 2882; 2910; 3041; 3131; 3198; 3379; 3654; 3662; 3754; 4228; 4418; 4444; 4591
HphI	GGTGANNNNNNN!	5	376; 870; 1017; 3949; 4065
HphI	!NNNNNNNTCACC	6	957; 1098; 1309; 1471; 1995; 3056
Hpy8I	GTN!NAC	11	201; 539; 577; 641; 1029; 1257; 1641; 1925; 1942; 1997; 4484
Hpy99I	CGWCG!	8	645; 2968; 2996; 3290; 3305; 3582; 3967; 4700
Hpy166II	GTN!NAC	11	201; 539; 577; 641; 1029; 1257; 1641; 1925; 1942; 1997; 4484
Hpy188I	TCN!GA	12	585; 609; 2052; 2661; 2845; 3189; 3542; 3643; 4122; 4256; 4609; 4687
Hpy188III	TC!NNGA	28	613; 990; 1014; 1062; 1093; 1167; 1385; 1387; 1533; 2305; 2357; 2670; 2723; 2896; 3212; 3221; 3304; 3360; 3404; 3494; 3527; 3596; 4077; 4151; 4234; 4332; 4430; 4564
HpyAV	CCTTCNNNNNN!	7	765; 978; 1020; 1173; 3523; 3630; 4309
HpyAV	!NNNNNGAAGG	9	906; 1059; 2111; 3006; 3735; 3751; 3934; 4251; 4561
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 645; 1347; 1477; 1969; 3258; 3374; 3482; 3805; 4296; 4766; 4837
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 719; 947; 1076; 1259; 1289; 1938; 1950; 1993; 2103; 2994; 3181; 3962; 4095
HpyCH4V	TG!CA	22	636; 821; 932; 951; 1257; 1486; 1627; 1654; 1722; 2439; 2448; 2511; 2520; 2635; 2711; 2770; 2929; 3104; 3118; 4188; 4484; 4851
HpyF3I	C!TNAG	8	606; 1297; 2358; 2660; 3541; 3990; 4113; 4522
HpyF10VI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 773; 788; 827; 884; 1157; 1196; 1420; 1492; 2105; 2135; 2162; 2204; 2445; 2517; 2568; 2647; 2869; 2953; 2976; 3115; 3238; 3321; 3588; 3775; 3979; 4178; 4750
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 689; 878; 2878; 3580; 3659
Hsp92II	CATG!	20	304; 364; 681; 936; 1281; 1402; 1449; 2308; 2448; 2520; 2611; 2752; 3097; 3283; 3314; 3340; 3696; 4080; 4800; 4851
HspAI	G!CGC	29	595; 689; 878; 957; 998; 1160; 1350; 1352; 1423; 2142; 2150; 2176; 2198; 2207; 2220; 2251; 2870; 2878; 2942; 2979; 3245; 3505; 3681; 3767; 4170; 4279; 4453; 4553; 4620
KasI	G!GCGCC	3	688; 877; 2877

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	649
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	2	652; 768
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1641
Kzo9I	!GATC	29	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1381; 1505; 1518; 1535; 2715; 2719; 2738; 3049; 3127; 3208; 3217; 3295; 3671; 3687; 4046; 4058; 4136; 4144; 4155; 4230
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	1150; 3222; 3432
LpnI	RGC!GCGY	8	596; 690; 879; 1161; 2143; 2151; 2879; 4554
LpnPI	CCDGNNNNNNNNNN!	65	102; 295; 614; 670; 706; 801; 823; 840; 858; 880; 895; 1066; 1132; 1165; 1200; 1237; 1348; 1390; 1424; 1471; 1496; 1615; 1920; 2109; 2332; 2370; 2386; 2426; 2481; 2498; 2598; 2683; 2796; 2873; 2895; 2918; 3054; 3068; 3087; 3144; 3211; 3261; 3277; 3334; 3392; 3601; 3667; 3691; 3767; 3856; 3959; 3992; 4223; 4241; 4387; 4407; 4431; 4457; 4506; 4604; 4649; 4679; 4758; 4783; 4820
LpnPI	!NNNNNNNNNNNNNCHGG	56	75; 268; 552; 586; 642; 812; 831; 937; 1039; 1066; 1113; 1172; 1363; 1396; 1444; 1961; 2081; 2138; 2201; 2399; 2411; 2471; 2483; 2715; 2760; 2803; 2845; 2867; 2895; 2942; 3004; 3026; 3116; 3183; 3206; 3250; 3345; 3364; 3389; 3538; 3639; 3682; 3739; 3829; 3932; 3959; 3977; 4213; 4250; 4403; 4429; 4569; 4587; 4622; 4703; 4756
Lsp1109I	GCAGCNNNNNNNN!	10	695; 1034; 1202; 1498; 1666; 2951; 2993; 3514; 3967; 4467
Lsp1109I	!NNNNNNNNNNNNNGCTGC	8	916; 1427; 2160; 2825; 3009; 3102; 4168; 4374
LweI	GCATCNNNNN!	7	770; 1694; 2457; 2529; 3177; 3241; 3516
LweI	!NNNNNNNNNGATGC	7	357; 774; 795; 2836; 3091; 3307; 4699
MabI	A!CCWGGT	1	2467
MaeI	C!TAG	9	592; 1502; 1533; 1727; 2145; 2701; 3716; 4050; 4303
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 719; 947; 1076; 1259; 1289; 1938; 1950; 1993; 2103; 2994; 3181; 3962; 4095
MaeIII	!GTNAC	16	61; 148; 497; 858; 1005; 1308; 1477; 1666; 2167; 2179; 2998; 3304; 3994; 4260; 4376; 4439
MalI	GA!TC	29	587; 611; 662; 712; 1136; 1171; 1183; 1217; 1316; 1383; 1507; 1520; 1537; 2717; 2721; 2740; 3051; 3129; 3210; 3219; 3297; 3673; 3689; 4048; 4060; 4138; 4146; 4157; 4232
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2302; 3491
MbiI	GAG!CGG	3	1466; 2138; 3545
MboI	!GATC	29	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1381; 1505; 1518; 1535; 2715; 2719; 2738; 3049; 3127; 3208; 3217; 3295; 3671; 3687; 4046; 4058; 4136; 4144; 4155; 4230
MboII	GAAGANNNNNNNN!	6	1167; 2134; 2362; 3239; 3449; 4068
MboII	!NNNNNNNTCTTC	4	3529; 3696; 3896; 4139
McaTI	GCGC!GC	1	1353
MfeI	C!AATTG	1	1628
MfII	R!GATCY	13	585; 609; 660; 710; 1169; 1381; 3049; 3295; 3687; 4046; 4058; 4144; 4155
MhII	GDGCH!C	16	620; 657; 839; 845; 853; 1259; 1265; 1458; 2069; 2824; 2917; 2991; 3181; 3243; 3953; 4486
MlsI	TGG!CCA	4	749; 1052; 1073; 2960
MluI	A!CGCGT	0	
MluNI	TGG!CCA	4	749; 1052; 1073; 2960
MlyI	GAGTCNNNNN!	2	1930; 2362
MlyI	!NNNNNGACTC	6	404; 598; 1523; 1937; 3543; 4420
Mly113I	GG!CGCC	3	689; 878; 2878
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1971
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4403; 4587
MnlI	CCTCNNNNNNN!	7	1597; 2661; 3479; 3685; 3999; 4369; 4693
MnlI	!NNNNNGAGG	16	541; 726; 966; 996; 1557; 2022; 2353; 2631; 2674; 2689; 2729; 2793; 2929; 3286; 3716; 4619
Mph1103I	ATGCA!T	3	2450; 2522; 4853
MreI	CG!CCGGCG	1	1410

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MroI	T!CCGGA	0	
MroNI	G!CCGGC	5	1186; 1410; 2095; 3378; 3661
MroXI	GAANN!NNTTC	1	916
MscI	TGG!CCA	4	749; 1052; 1073; 2960
MseI	T!TAA	15	7; 1579; 1640; 1761; 1782; 1793; 1805; 1816; 1833; 1931; 2202; 4021; 4035; 4040; 4092
MslI	CAYNN!NNRTG	4	365; 856; 1225; 3315
MspI	C!CGG	22	601; 657; 667; 827; 1187; 1411; 2096; 2783; 2860; 2882; 2910; 3041; 3131; 3198; 3379; 3654; 3662; 3754; 4228; 4418; 4444; 4591
Msp20I	TGG!CCA	4	749; 1052; 1073; 2960
MspAII	CMG!CKG	7	651; 686; 767; 2376; 2984; 4213; 4458
MspCI	C!TTAAG	1	1760
MspJI	CNNRNNNNNNNNN!	248	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; 627; 640; 662; 679; 705; 720; 763; 778; 800; 821; 839; 852; 867; 880; 893; 906; 922; 936; 949; 964; 984; 1002; 1026; 1048; 1065; 1087; 1105; 1124; 1140; 1154; 1179; 1199; 1221; 1235; 1249; 1264; 1277; 1290; 1309; 1325; 1347; 1363; 1378; 1397; 1411; 1436; 1449; 1463; 1479; 1495; 1514; 1538; 1551; 1566; 1585; 1602; 1615; 1656; 1670; 1683; 1701; 1739; 1754; 1772; 1813; 1837; 1857; 1875; 1896; 1919; 1951; 1966; 1988; 2006; 2019; 2040; 2057; 2070; 2083; 2099; 2112; 2142; 2157; 2182; 2200; 2213; 2228; 2252; 2266; 2290; 2315; 2331; 2369; 2385; 2424; 2438; 2452; 2480; 2496; 2510; 2524; 2553; 2566; 2587; 2596; 2618; 2648; 2664; 2682; 2712; 2735; 2759; 2783; 2802; 2830; 2856; 2872; 2885; 2908; 2922; 2942; 2955; 2969; 2988; 3002; 3015; 3031; 3046; 3059; 3075; 3090; 3106; 3131; 3150; 3166; 3179; 3192; 3210; 3224; 3238; 3254; 3276; 3292; 3311; 3333; 3349; 3372; 3391; 3405; 3421; 3435; 3455; 3471; 3484; 3506; 3539; 3553; 3573; 3586; 3600; 3654; 3667; 3690; 3703; 3722; 3739; 3766; 3802; 3835; 3854; 3879; 3900; 3927; 3940; 3957; 3971; 3986; 4002; 4062; 4087; 4103; 4125; 4138; 4152; 4183; 4197; 4222; 4240; 4255; 4268; 4287; 4300; 4315; 4344; 4363; 4381; 4406; 4421; 4440; 4456; 4475; 4493; 4509; 4523; 4542; 4569; 4592; 4614; 4633; 4648; 4661; 4678; 4698; 4725; 4738; 4757; 4782; 4805; 4819; 4832; 4849
MspJI	!NNNNNNNNNNNNYNG	207	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 593; 612; 636; 653; 679; 704; 727; 744; 764; 784; 804; 824; 841; 860; 880; 910; 932; 956; 976; 998; 1022; 1039; 1061; 1078; 1105; 1123; 1153; 1173; 1195; 1227; 1244; 1264; 1284; 1307; 1333; 1354; 1371; 1393; 1412; 1432; 1453; 1476; 1498; 1519; 1544; 1588; 1630; 1713; 1748; 1775; 1798; 1827; 1871; 1893; 1925; 1961; 1978; 1999; 2036; 2056; 2073; 2090; 2125; 2143; 2161; 2178; 2202; 2224; 2251; 2279; 2305; 2343; 2364; 2381; 2399; 2422; 2443; 2471; 2494; 2515; 2533; 2554; 2571; 2594; 2618; 2638; 2656; 2678; 2709; 2731; 2757; 2776; 2793; 2821; 2840; 2859; 2877; 2895; 2916; 2938; 2962; 2995; 3015; 3033; 3054; 3080; 3107; 3124; 3141; 3158; 3184; 3206; 3228; 3246; 3266; 3285; 3307; 3345; 3365; 3389; 3409; 3429; 3456; 3480; 3513; 3532; 3560; 3582; 3611; 3639; 3664; 3683; 3702; 3723; 3740; 3757; 3788; 3815; 3835; 3858; 3878; 3915; 3932; 3951; 3977; 3997; 4036; 4063; 4082; 4100; 4137; 4155; 4196; 4214; 4240; 4257; 4289; 4318; 4346; 4367; 4390; 4409; 4430; 4448; 4465; 4483; 4509; 4530; 4550; 4570; 4588; 4609; 4635; 4652; 4671; 4690; 4719; 4738; 4756; 4775; 4793; 4811; 4834
MspR9I	CC!NGG	22	90; 283; 657; 658; 846; 856; 1054; 1378; 1459; 2414; 2469; 2486; 2882; 3042; 3265; 3655; 3844; 3947; 4419; 4637; 4650; 4771
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1628
MvaI	CC!WGG	16	90; 283; 846; 856; 1054; 1378; 1459; 2414; 2469; 2486; 3265; 3844; 3947; 4637; 4650; 4771
Mva1269I	GAATGCN!	1	1629
Mva1269I	G!CATTC	1	1722
MvnI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1527; 1802; 2178; 2198; 2222; 2253; 2944; 3245; 3683; 3767; 3830; 3899; 4172; 4753
MvrI	CGAT!CG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MwoI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 773; 788; 827; 884; 1157; 1196; 1420; 1492; 2105; 2135; 2162; 2204; 2445; 2517; 2568; 2647; 2869; 2953; 2976; 3115; 3238; 3321; 3588; 3775; 3979; 4178; 4750
NaeI	GCC!GGC	5	1188; 1412; 2097; 3380; 3663
NarI	GG!CGCC	3	689; 878; 2878
NciI	CC!SGG	6	657; 658; 2882; 3042; 3655; 4419
NcoI	C!CATGG	4	360; 1398; 2607; 3310
NdeI	CA!TATG	1	234
NdeII	!GATC	29	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1381; 1505; 1518; 1535; 2715; 2719; 2738; 3049; 3127; 3208; 3217; 3295; 3671; 3687; 4046; 4058; 4136; 4144; 4155; 4230
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	2	280; 884
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	2	244; 848
NgoMIV	G!CCGGC	5	1186; 1410; 2095; 3378; 3661
NheI	G!CTAGC	1	591
NlaII	CATG!	20	304; 364; 681; 936; 1281; 1402; 1449; 2308; 2448; 2520; 2611; 2752; 3097; 3283; 3314; 3340; 3696; 4080; 4800; 4851
NlaIV	GGN!NCC	21	467; 647; 655; 662; 690; 879; 903; 1251; 2033; 2054; 2066; 2257; 2418; 2490; 2879; 2914; 3762; 3841; 3886; 4729; 4768
NlaCI	CATCACNNNNNNNNNNNNNNNN!	4	987; 1710; 2025; 3617
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 4689
Nii3877I	CYCGR!G	5	617; 660; 908; 1268; 1389
NmeAIII	GCCGAGNNNNNNNNNNNNNNNN!	3	1026; 2667; 3103
NmeAIII	!NNNNNNNNNNNNNNNNNCTCGGC	1	2632
NmeDI	RCCGYNNNNNN!	8	678; 838; 1198; 1422; 2107; 3209; 3390; 3673
NmeDI	!NNNNNNNNNNNNRCCGY	8	653; 813; 1173; 1397; 2082; 3184; 3365; 3648
NmuCI	!GTSAC	7	858; 1005; 1308; 1477; 2167; 2998; 3304
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2980
NsiI	ATGCA!T	3	2450; 2522; 4853
NspI	RCATG!Y	5	936; 2448; 2520; 3283; 4800
NspV	TT!CGAA	2	627; 3560
OliI	CACNN!NNGTG	1	856
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 648; 899; 1031; 1124; 1271; 3185
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	936; 2448; 2520; 3283
PaeR7I	C!TCGAG	2	613; 1385
PagI	T!CATGA	2	2304; 4076
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3843; 3946
PauI	G!CGCGC	1	1350
PceI	AGG!CCT	1	2699
PciI	A!CATGT	1	4796
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	1150; 3222; 3432
PcsI	WCGNNNN!NNNCGW	6	3172; 3249; 3492; 3566; 3959; 4477
PctI	GAATGCN!	1	1629
PctI	G!CATTC	1	1722
PdiI	GCC!GGC	5	1188; 1412; 2097; 3380; 3663
PdmI	GAANN!NN TTC	1	916
PfeI	G!AWTC	6	1089; 3363; 3497; 3607; 3644; 4822
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2996
PfIMI	CCANNNN!NTGG	1	1080
PfoI	T!CCNGGA	1	3653
PhoI	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1524; 1844; 1986; 2641; 2647; 2656; 2699; 2786; 2960; 3351; 3378; 3887; 3944; 3977; 4322; 4756; 4774; 4785
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNN!	1	3259
PlaDI	!NNNNNNNNNNNNNNNNNCTGATG	2	2824; 3079

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PleI	GAGTCNNNN!	2	1929; 2361
PleI	!NNNNNGACTC	6	404; 598; 1523; 1937; 3543; 4420
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	3	1077; 1260; 1290
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	3	1077; 1260; 1290
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1960
PpiI	!NNNNNNNGAGNNNNNGTTC	1	4090
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4122
PpiI	!NNNNNNNGAACNNNNNCTC	1	1928
Ppsi	GAGTCNNNN!	2	1929; 2361
Ppsi	!NNNNNGACTC	6	404; 598; 1523; 1937; 3543; 4420
Ppu10I	A!TGCAT	3	2446; 2518; 4849
Ppu21I	YAC!GTR	8	340; 720; 948; 1077; 1260; 1290; 1994; 3182
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4796
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1661; 1866
Psp03I	GGWC!C	3	1476; 3397; 3842
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	16	88; 281; 844; 854; 1052; 1376; 1457; 2412; 2467; 2484; 3263; 3842; 3945; 4635; 4648; 4769
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	3	1077; 1260; 1290
PspEI	G!GTNACC	2	858; 1005
PspGI	!CCWGG	16	88; 281; 844; 854; 1052; 1376; 1457; 2412; 2467; 2484; 3263; 3842; 3945; 4635; 4648; 4769
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	21	467; 647; 655; 662; 690; 879; 903; 1251; 2033; 2054; 2066; 2257; 2418; 2490; 2879; 2914; 3762; 3841; 3886; 4729; 4768
PspOMI	G!GGCCC	1	653
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	4	125; 905; 2608; 3607
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3010
PspPI	G!GNCC	12	83; 276; 654; 901; 1249; 1473; 1985; 3394; 3839; 3885; 3943; 3976
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	2431; 2503; 4009
PspPRI	!NNNNNNNNNNNNNNCTGRGG	3	1114; 2344; 3539
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNTAC	0	
PssI	RGGNC!CY	1	3979
PstI	CTGCA!G	2	638; 1488
PstNI	CAGNNN!CTG	2	3979; 4387
PsuI	R!GATCY	13	585; 609; 660; 710; 1169; 1381; 3049; 3295; 3687; 4046; 4058; 4144; 4155
PsyI	GACN!NNGTC	1	2996
PteI	G!CGCGC	1	1350
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2376; 2984
RcaI	T!CATGA	2	2304; 4076
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3393
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	1607
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 647; 898; 1030; 1123; 1270; 3184
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 897; 1029; 1122; 1269; 3183
RseI	CAYNN!NNRTG	4	365; 856; 1225; 3315
RsrII	CG!GWCCG	1	3394
Rsr2I	CG!GWCCG	1	3394
SacI	GAGCT!C	1	620
SacII	CCGC!GG	2	652; 768
SalI	G!TCGAC	1	639
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	3	1150; 3222; 3432
SaqAI	T!TAA	15	7; 1579; 1640; 1761; 1782; 1793; 1805; 1816; 1833; 1931; 2202; 4021; 4035; 4040; 4092
SatI	GC!NGC	39	684; 687; 930; 1023; 1191; 1245; 1248; 1365; 1421; 1441; 1487; 1525; 1655; 2174; 2196; 2210; 2648; 2787; 2839; 2850; 2940; 2945; 2982; 3023; 3110; 3116; 3352; 3448; 3489; 3503; 3617; 3956; 3971; 4182; 4388; 4391; 4456; 4599; 4754
Sau96I	G!GNCC	12	83; 276; 654; 901; 1249; 1473; 1985; 3394; 3839; 3885; 3943; 3976
Sau3AI	!GATC	29	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1381; 1505; 1518; 1535; 2715; 2719; 2738; 3049; 3127; 3208; 3217; 3295; 3671; 3687; 4046; 4058; 4136; 4144; 4155; 4230
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1930; 2362
SchI	!NNNNNGACTC	6	404; 598; 1523; 1937; 3543; 4420
SciI	CTC!GAG	2	615; 1387
ScrFI	CC!NGG	22	90; 283; 657; 658; 846; 856; 1054; 1378; 1459; 2414; 2469; 2486; 2882; 3042; 3265; 3655; 3844; 3947; 4419; 4637; 4650; 4771
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	6	978; 1485; 2456; 2528; 2697; 4639
SdeAI	!NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTYCTG	3	1476; 3033; 3518
SdeOSI	GACNNNNRTGANNNNNNNNNNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	16	620; 657; 839; 845; 853; 1259; 1265; 1458; 2069; 2824; 2917; 2991; 3181; 3243; 3953; 4486
SelI	!CGCG	21	58; 649; 765; 996; 1035; 1320; 1350; 1525; 1800; 2176; 2196; 2220; 2251; 2942; 3243; 3681; 3765; 3828; 3897; 4170; 4751
SetI	ASST!	69	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 722; 757; 803; 874; 911; 931; 950; 970; 1007; 1012; 1046; 1079; 1262; 1285; 1292; 1298; 1375; 1379; 1568; 1589; 1598; 1610; 1659; 1826; 1941; 1953; 1996; 2033; 2083; 2106; 2230; 2378; 2473; 2666; 2779; 2907; 2986; 2997; 3069; 3140; 3184; 3444; 3590; 3634; 3965; 3996; 4055; 4098; 4241; 4262; 4361; 4498; 4513; 4532; 4544; 4588; 4634; 4685
SexAI	A!CCWGGT	1	2467
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	770; 1694; 2457; 2529; 3177; 3241; 3516
SfaNI	!NNNNNNNNNGATGC	7	357; 774; 795; 2836; 3091; 3307; 4699
SfcI	C!TRYAG	5	634; 1484; 2213; 4340; 4531
SfiI	GGCCNNNN!NGGCC	1	2653
SfoI	GGC!GCC	3	690; 879; 2879
Sfr274I	C!TCGAG	2	613; 1385
Sfr303I	CCGC!GG	2	652; 768
SfuI	TT!CGAA	2	627; 3560

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	197	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 705; 720; 778; 800; 822; 839; 852; 867; 894; 916; 936; 949; 964; 984; 1002; 1026; 1048; 1065; 1087; 1105; 1131; 1150; 1164; 1179; 1199; 1221; 1236; 1264; 1278; 1300; 1314; 1333; 1347; 1363; 1380; 1397; 1411; 1438; 1458; 1471; 1495; 1514; 1538; 1585; 1614; 1656; 1739; 1813; 1897; 1919; 1951; 1988; 2006; 2025; 2040; 2082; 2099; 2116; 2151; 2165; 2182; 2204; 2228; 2252; 2317; 2331; 2369; 2385; 2425; 2438; 2457; 2480; 2497; 2510; 2529; 2559; 2580; 2597; 2620; 2655; 2682; 2713; 2735; 2761; 2783; 2802; 2830; 2866; 2885; 2908; 2922; 2942; 2955; 2969; 2988; 3002; 3021; 3053; 3067; 3080; 3106; 3137; 3150; 3167; 3184; 3198; 3215; 3233; 3248; 3276; 3292; 3311; 3333; 3349; 3372; 3391; 3416; 3435; 3455; 3482; 3506; 3539; 3558; 3586; 3600; 3666; 3690; 3705; 3728; 3749; 3766; 3814; 3841; 3855; 3884; 3908; 3941; 3958; 3978; 3991; 4004; 4062; 4089; 4108; 4138; 4163; 4183; 4197; 4222; 4240; 4277; 4315; 4344; 4372; 4386; 4406; 4421; 4442; 4456; 4475; 4493; 4509; 4549; 4569; 4596; 4614; 4635; 4648; 4661; 4678; 4702; 4725; 4757; 4782; 4809; 4831
SgeI	!NNNNNNNNNNNNCNG	172	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 679; 706; 752; 774; 796; 813; 831; 853; 880; 910; 934; 958; 976; 1000; 1022; 1039; 1061; 1079; 1105; 1124; 1153; 1173; 1195; 1238; 1264; 1288; 1307; 1333; 1354; 1371; 1393; 1412; 1432; 1453; 1476; 1512; 1559; 1588; 1630; 1713; 1787; 1871; 1893; 1925; 1962; 1980; 1999; 2056; 2073; 2090; 2125; 2143; 2163; 2183; 2202; 2226; 2291; 2343; 2399; 2431; 2454; 2471; 2503; 2533; 2554; 2571; 2594; 2629; 2656; 2687; 2709; 2735; 2757; 2776; 2804; 2840; 2859; 2882; 2903; 2921; 2938; 2962; 2995; 3027; 3054; 3080; 3111; 3141; 3158; 3184; 3207; 3228; 3250; 3270; 3290; 3307; 3346; 3365; 3390; 3409; 3429; 3456; 3480; 3513; 3532; 3560; 3582; 3640; 3664; 3683; 3702; 3723; 3740; 3788; 3815; 3835; 3858; 3882; 3915; 3932; 3952; 3978; 4036; 4063; 4082; 4112; 4137; 4157; 4196; 4214; 4251; 4289; 4318; 4346; 4367; 4395; 4416; 4449; 4467; 4523; 4543; 4570; 4588; 4609; 4635; 4652; 4676; 4699; 4731; 4756; 4783; 4805; 4834
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	2	826; 1410
SgrBI	CCGC!GG	2	652; 768
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2025; 3812; 4605
SimI	!GACCC	5	106; 992; 3306; 3874; 4122
SinI	G!GWCC	3	1473; 3394; 3839
SlaI	C!TCGAG	2	613; 1385
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	365; 856; 1225; 3315
SmlI	C!TYRAG	8	613; 619; 1385; 1760; 3269; 4151; 4428; 4690
SmoI	C!TYRAG	8	613; 619; 1385; 1760; 3269; 4151; 4428; 4690
SmuI	CCCGCNNNN!	10	93; 119; 286; 1003; 1415; 2200; 2555; 2576; 3772; 3904
SmuI	!NNNNNNGCGGG	7	644; 1459; 2131; 3001; 3538; 3676; 3823
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	936; 2448; 2520; 3283
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	13	18; 629; 984; 1101; 1628; 1692; 1770; 1796; 1807; 2454; 2526; 2618; 4036
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2699
SsiI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 649; 765; 996; 1320; 1365; 1408; 1525; 2193; 2196; 2210; 2300; 2548; 2560; 2569; 2581; 2591; 2602; 2648; 2787; 2850; 3352; 3397; 3463; 3489; 3614; 3617; 3765; 3897; 4204; 4348; 4844
SsiI	G!CGG	31	370; 403; 528; 651; 686; 767; 1244; 1247; 1414; 1420; 1466; 2138; 2165; 2253; 2363; 2944; 3008; 3109; 3112; 3392; 3447; 3545; 3683; 3830; 3970; 4213; 4458; 4579; 4598; 4725; 4753
SspI	AAT!ATT	2	1786; 2339
SspDI	G!GCGCC	3	688; 877; 2877

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SspD5I	GGTGANNNNNNNN!	5	376; 870; 1017; 3949; 4065
SspD5I	!NNNNNNNNNTCACC	6	956; 1097; 1308; 1470; 1994; 3055
SstI	GAGCT!C	1	620
SstII	CCGC!GG	2	652; 768
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	23	92; 118; 285; 663; 845; 911; 944; 1002; 1259; 1271; 1414; 2077; 2199; 2554; 2575; 2888; 3291; 3430; 3501; 3771; 3903; 4133; 4571
Sth132I	!NNNNNNNNCCGGG	20	15; 407; 470; 643; 1458; 2078; 2130; 2231; 2958; 3000; 3033; 3537; 3646; 3675; 3822; 3926; 3957; 4410; 4454; 4662
Sth302II	CC!GG	22	602; 658; 668; 828; 1188; 1412; 2097; 2784; 2861; 2883; 2911; 3042; 3132; 3199; 3380; 3655; 3663; 3755; 4229; 4419; 4445; 4592
StrI	C!TCGAG	2	613; 1385
StsI	GGATGNNNNNNNNNN!	10	758; 818; 1082; 1319; 1442; 1483; 2746; 3203; 3228; 3682
StsI	!NNNNNNNNNNNNNNCATCC	2	747; 2550
StuI	AGG!CCT	1	2699
StyI	C!CWGGG	6	360; 1398; 2607; 2700; 3310; 3715
StyD4I	!CCNGG	22	88; 281; 655; 656; 844; 854; 1052; 1376; 1457; 2412; 2467; 2484; 2880; 3040; 3263; 3653; 3842; 3945; 4417; 4635; 4648; 4769
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 645; 1347; 1477; 1969; 3258; 3374; 3482; 3805; 4296; 4766; 4837
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 722; 950; 1079; 1262; 1292; 1941; 1953; 1996; 2106; 2997; 3184; 3965; 4098
TaqI	T!CGA	17	614; 627; 640; 971; 1013; 1386; 2027; 2718; 2991; 3147; 3171; 3207; 3369; 3560; 3605; 3860; 4698
TaqII	GACCGANNNNNNNNNNN!	4	1327; 1898; 2915; 3583
TaqII	!NNNNNNNNNTCGGTC	1	3827
TaqII	CACCCANNNNNNNNNNN!	1	1237
TaqII	!NNNNNNNNNTGGGTG	3	172; 2782; 3374
TasI	!AATT	13	18; 629; 984; 1101; 1628; 1692; 1770; 1796; 1807; 2454; 2526; 2618; 4036
TatI	W!GTACW	6	217; 297; 330; 381; 1028; 1121
TauI	GCSG!C	21	689; 1247; 1250; 1367; 1423; 1527; 2198; 2212; 2650; 2789; 2852; 2947; 3112; 3115; 3354; 3450; 3491; 3619; 3973; 4601; 4756
TfiI	G!AWTC	6	1089; 3363; 3497; 3607; 3644; 4822
ThiI	C!TCGAG	2	613; 1385
TruII	T!TAA	15	7; 1579; 1640; 1761; 1782; 1793; 1805; 1816; 1833; 1931; 2202; 4021; 4035; 4040; 4092
Tru9I	T!TAA	15	7; 1579; 1640; 1761; 1782; 1793; 1805; 1816; 1833; 1931; 2202; 4021; 4035; 4040; 4092
TscAI	CASTGNN!	7	889; 1120; 1724; 3007; 4117; 4388; 4401
TseI	G!CWGC	19	683; 929; 1022; 1190; 1440; 1486; 1654; 2173; 2838; 2939; 2981; 3022; 3115; 3502; 3955; 4181; 4387; 4390; 4455
TsoI	TARCCANNNNNNNNNNN!	2	1850; 2197
TsoI	!NNNNNNNNNTGGYTA	3	932; 1655; 3407
Tsp45I	!GTSAC	7	858; 1005; 1308; 1477; 2167; 2998; 3304
Tsp509I	!AATT	13	18; 629; 984; 1101; 1628; 1692; 1770; 1796; 1807; 2454; 2526; 2618; 4036
TspDTI	ATGAANNNNNNNNNNN!	4	1243; 1636; 2937; 3641
TspDTI	!NNNNNNNNNTTCAT	6	26; 804; 1194; 3355; 3811; 4018
TspEI	!AATT	13	18; 629; 984; 1101; 1628; 1692; 1770; 1796; 1807; 2454; 2526; 2618; 4036
TspGWI	ACGGANNNNNNNNNNN!	2	1354; 3753
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	7	889; 1120; 1724; 3007; 4117; 4388; 4401
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2996
Tth111II	CAARCANNNNNNNNNNN!	1	4205

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Tth111II	!NNNNNNNNNTGYTTG	3	3313; 4173; 4212
UnbI	!GGNCC	12	82; 275; 653; 900; 1248; 1472; 1984; 3393; 3838; 3884; 3942; 3975
Van9II	CCANNNN!NTGG	1	1080
Vha464I	C!TTAAG	1	1760
VneI	G!TGCAC	2	1255; 4482
VpaK11AI	!GGWCC	3	1472; 3393; 3838
VpaK11BI	G!GWCC	3	1473; 3394; 3839
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	629; 1692; 1796; 1807
XbaI	T!CTAGA	1	1532
XceI	RCATG!Y	5	936; 2448; 2520; 3283; 4800
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	2	613; 1385
XhoII	R!GATCY	13	585; 609; 660; 710; 1169; 1381; 3049; 3295; 3687; 4046; 4058; 4144; 4155
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	2700; 3715
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	1	916
XspI	C!TAG	9	592; 1502; 1533; 1727; 2145; 2701; 3716; 4050; 4303
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2450; 2522; 4853