

pPhi-Yellow-N vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1585; 1790
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1873; 2829; 4618
AatI	AGG!CCT	1	2623
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; 1451; 1726; 2102; 2122; 2146; 2177; 2868; 3169; 3607; 3691; 3754; 3823; 4096; 4677
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2904
Acc36I	ACCTGCNNNN!	2	3070; 3520
Acc36I	!NNNNNNNNGCAGGT	1	2689
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	7	465; 645; 688; 877; 1955; 2801; 2836
AccB7I	CCANNNN!NTGG	1	1080
AccBSI	CCG!CTC	2	2226; 3415
AccBSI	GAG!CGG	2	2062; 3469
AceIII	CAGCTCNNNNNNN!	1	1758
AceIII	!NNNNNNNNNNGAGCTG	3	552; 895; 915
AciI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 649; 765; 996; 1320; 1365; 1449; 2117; 2120; 2134; 2224; 2472; 2484; 2493; 2505; 2515; 2526; 2572; 2711; 2774; 3276; 3321; 3387; 3413; 3538; 3541; 3689; 3821; 4128; 4272; 4768
AciI	G!CGG	28	370; 403; 528; 651; 686; 767; 1244; 1247; 2062; 2089; 2177; 2287; 2868; 2932; 3033; 3036; 3316; 3371; 3469; 3607; 3754; 3894; 4137; 4382; 4503; 4522; 4649; 4677
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	8	668; 2670; 2981; 3227; 3619; 3978; 4076; 4162
AclWI	!NNNNNGATCC	8	580; 655; 705; 1412; 3046; 3590; 3977; 4074
AcoI	Y!GGCCR	9	747; 1050; 1071; 1211; 1446; 2708; 2882; 3273; 3300
AcsI	R!AATY	4	629; 1616; 1720; 1731
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	5	931; 1174; 1357; 2948; 3380
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	741; 4178
AcvI	CAC!GTG	3	1077; 1260; 1290
AcyI	GR!CGYC	9	122; 175; 258; 444; 689; 878; 2802; 3504; 3583
AdeI	CACNNN!GTG	1	1918
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 647; 898; 1030; 1123; 1270; 3108
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	22	49; 720; 771; 845; 1002; 1080; 1243; 1814; 2140; 2532; 2783; 3327; 3608; 3640; 3772; 3807; 3857; 3889; 4242; 4521; 4687; 4705
AfIII	C!TTAAG	1	1684
AfIII	A!CRYGT	1	4720
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	9	990; 1062; 1101; 1167; 2213; 2257; 2267; 2680; 4256
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	14	88; 281; 844; 854; 1052; 2336; 2391; 2408; 3187; 3766; 3869; 4559; 4572; 4693
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCCNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	856
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	2	2376; 2448
AlfI	!NNNNNNNNNGCANNNNNTGCG	2	2342; 2414
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	1884
AloI	!NNNNNNNGGANNNNNNGTTC	1	796
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	1	828
AloI	!NNNNNNNGAACNNNNNTCC	1	1852
AluI	AG!CT	22	566; 618; 624; 909; 929; 1044; 1283; 1296; 1385; 1394; 1399; 1581; 1748; 2005; 2300; 2588; 2908; 3366; 4163; 4420; 4466; 4556
AluBI	AG!CT	22	566; 618; 624; 909; 929; 1044; 1283; 1296; 1385; 1394; 1399; 1581; 1748; 2005; 2300; 2588; 2908; 3366; 4163; 4420; 4466; 4556
AlwI	GGATCNNNN!	8	668; 2670; 2981; 3227; 3619; 3978; 4076; 4162
AlwI	!NNNNNGATCC	8	580; 655; 705; 1412; 3046; 3590; 3977; 4074
Alw21I	GWGCW!C	6	620; 853; 1259; 2915; 3105; 4410
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1336; 2226; 2644; 3663; 3791
Alw44I	G!TGCAC	2	1255; 4406
AlwNI	CAGNNN!CTG	2	3903; 4311
Ama87I	C!YCGRG	4	613; 656; 904; 1264
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNNN!TGC	3	2370; 2442; 3904
ApaLI	G!TGCAC	2	1255; 4406
ApeKI	G!CWGC	17	683; 929; 1022; 1190; 1578; 2097; 2762; 2863; 2905; 2946; 3039; 3426; 3879; 4105; 4311; 4314; 4379
ApoI	R!AATTY	4	629; 1616; 1720; 1731
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3317
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	3111; 3764; 4602
AquI	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3201
AquI	!NNNNNNNNNNNNNNNNNNNGTTCGGC	1	878
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2630
AquIII	!NNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	3372
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 610; 661; 711; 1135; 1170; 1182; 1216; 1315; 1418; 1460; 2640; 2644; 2663; 2974; 3052; 3133; 3142; 3220; 3596; 3612; 3971; 3983; 4061; 4069; 4080; 4155
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2920
Asp700I	GAANN!NNTTC	1	916
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	2624; 3639
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	28	597; 691; 880; 959; 1000; 1162; 1352; 1354; 2068; 2076; 2102; 2124; 2133; 2146; 2177; 2796; 2804; 2868; 2905; 3171; 3431; 3607; 3693; 4096; 4205; 4379; 4479; 4546
AspS9I	G!GNCC	11	83; 276; 654; 901; 1249; 1909; 3318; 3763; 3809; 3867; 3900
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 3484
AsuC2I	CC!SGG	6	657; 658; 2806; 2966; 3579; 4343
AsuHPI	GGTGANNNNNNNN!	5	376; 870; 1017; 3873; 3989
AsuHPI	!NNNNNNNTCACC	6	957; 1098; 1176; 1309; 1919; 2980
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	613; 656; 904; 1264
AvaII	G!GWCC	2	3318; 3763

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AviII	TGC!GCA	1	2904
AvrII	C!CTAGG	2	2624; 3639
AxyI	CC!TNAGG	2	2282; 3914
BaeI	ACNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNGTAYC	0	
BaeGI	GKGCMI!C	8	657; 839; 845; 1259; 1265; 2748; 2841; 4410
BalI	TGG!CCA	4	749; 1052; 1073; 2884
BamHI	G!GATCC	1	660
BanI	G!GYRCC	7	465; 645; 688; 877; 1955; 2801; 2836
BanII	GRGCY!C	5	620; 657; 1993; 3167; 3877
BanIII	AT!CGAT	1	2642
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	1	936
BarI	!NNNNNNNGTANNNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	1	904
BasI	CCANNNN!NTGG	1	1080
BauI	C!ACGAG	3	1177; 3520; 4547
BauI	C!TCGTG	1	3394
BbeI	GGCGC!C	3	692; 881; 2805
Bbr7I	GAAGACNNNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	3	1077; 1260; 1290
BbsI	GAAGACNN!	0	
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	4	936; 2372; 2444; 3207
BbvI	GCAGCNNNNNNNN!	9	695; 1034; 1202; 1590; 2875; 2917; 3438; 3891; 4391
BbvI	!NNNNNNNNNNNGCTGC	7	916; 2084; 2749; 2933; 3026; 4092; 4298
Bbv12I	GWGCW!C	6	620; 853; 1259; 2915; 3105; 4410
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	7	970; 1246; 1449; 1932; 2496; 3022; 3524
BccI	!NNNNNGATGG	8	723; 739; 934; 973; 1063; 1900; 2680; 3108
BceAI	ACGGCNNNNNNNNNNNN!	7	720; 795; 891; 915; 1164; 3228; 3715
BceAI	!NNNNNNNNNNNNNGCCGT	4	1339; 1943; 2761; 4220
BceFI	ACGGCNNNNNNNNNNNN!	7	720; 795; 891; 915; 1164; 3228; 3715
BceFI	!NNNNNNNNNNNNNGCCGT	4	1340; 1944; 2762; 4221
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2231; 3021; 4522
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	6	657; 658; 2806; 2966; 3579; 4343
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNNN!	1	4655
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	1	4621
BfaI	C!TAG	8	592; 1457; 1651; 2069; 2625; 3640; 3974; 4227
BfiI	ACTGGGNNNNN!	1	2751
BfiI	!NNNNCCCAGT	4	289; 804; 876; 2503
BfmI	C!TRYAG	4	634; 2137; 4264; 4455
BfoI	RGCGC!Y	8	598; 692; 881; 1163; 2069; 2077; 2805; 4480
BfrI	C!TTAAG	1	1684
BfuI	GTATCCNNNNNN!	3	2231; 3021; 4522
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3070; 3520
BfuAI	!NNNNNNNNNGCAGGT	1	2689
BfuCI	!GATC	27	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1417; 1459; 2639; 2643; 2662; 2973; 3051; 3132; 3141; 3219; 3595; 3611; 3970; 3982; 4060; 4068; 4079; 4154
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2577
BglII	A!GATCT	2	609; 1169

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BisI	GC!NGC	38	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1449; 1579; 2098; 2120; 2134; 2572; 2711; 2763; 2774; 2864; 2869; 2906; 2947; 3034; 3037; 3040; 3276; 3372; 3413; 3427; 3541; 3880; 3895; 4106; 4312; 4315; 4380; 4523; 4678
BlnI	C!CTAGG	2	2624; 3639
BlpI	GC!TNAGC	2	1297; 1395
BlsI	GCN!GC	38	685; 688; 769; 931; 1024; 1192; 1246; 1249; 1366; 1450; 1580; 2099; 2121; 2135; 2573; 2712; 2764; 2775; 2865; 2870; 2907; 2948; 3035; 3038; 3041; 3277; 3373; 3414; 3428; 3542; 3881; 3896; 4107; 4313; 4316; 4381; 4524; 4679
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	3318; 3763
Bme1390I	CC!NGG	20	90; 283; 657; 658; 846; 856; 1054; 2338; 2393; 2410; 2806; 2966; 3189; 3579; 3768; 3871; 4343; 4561; 4574; 4695
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	613; 656; 904; 1264
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	84; 277; 655; 902; 1250; 1910; 3319; 3764; 3810; 3868; 3901
BmiI	GGN!NCC	21	467; 647; 655; 662; 690; 879; 903; 1251; 1957; 1978; 1990; 2181; 2342; 2414; 2803; 2838; 3686; 3765; 3810; 4653; 4692
BmrI	ACTGGGNNNNN!	1	2751
BmrI	!NNNNCCCAGT	4	289; 804; 876; 2503
BmrFI	CC!NGG	20	90; 283; 657; 658; 846; 856; 1054; 2338; 2393; 2410; 2806; 2966; 3189; 3579; 3768; 3871; 4343; 4561; 4574; 4695
BmsI	GCATCNNNNN!	7	770; 1618; 2381; 2453; 3101; 3165; 3440
BmsI	!NNNNNNNNNGATGC	7	357; 774; 795; 2760; 3015; 3231; 4623
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2751
BmuI	!NNNNCCCAGT	4	289; 804; 876; 2503
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2591; 3490
BpI	!NNNNNNNNGAGNNNNNCTC	2	2559; 3458
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	867; 1114; 3642
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3585
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 3484
Bpu1102I	GC!TNAGC	2	1297; 1395
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4096; 4635
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	604; 3178; 4337
BpuMI	CC!SGG	6	657; 658; 2806; 2966; 3579; 4343
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1336; 3791
Bsa29I	AT!CGAT	1	2642
BsaAI	YAC!GTR	8	340; 720; 948; 1077; 1260; 1290; 1918; 3106
BsaBI	GATNN!NNATC	2	1464; 2661
BsaHI	GR!CGYC	9	122; 175; 258; 444; 689; 878; 2802; 3504; 3583
BsaJI	C!CNNGG	22	360; 649; 656; 702; 765; 844; 854; 1001; 1053; 1355; 2336; 2408; 2531; 2566; 2575; 2624; 2965; 3234; 3639; 3767; 3870; 4560
BsaMI	GAATGCN!	1	1553
BsaMI	G!CATTC	1	1646
BsaWI	W!CCGGW	6	600; 666; 2833; 3677; 4367; 4514
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1882
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1852
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	2	1803; 3710

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Bsc4I	CCNNNNN!NNGG	22	49; 720; 771; 845; 1002; 1080; 1243; 1814; 2140; 2532; 2783; 3327; 3608; 3640; 3772; 3807; 3857; 3889; 4242; 4521; 4687; 4705
BscAI	GCATCNNNN!	7	769; 1617; 2380; 2452; 3100; 3164; 3439
BscAI	!NNNNNNGATGC	7	360; 777; 798; 2763; 3018; 3234; 4626
BseI	ACTGGN!	3	2746; 2947; 4193
BseI	C!CAGT	8	295; 810; 882; 1421; 1831; 2509; 4305; 4318
Bse8I	GATNN!NNATC	2	1464; 2661
Bse21I	CC!TNAGG	2	2282; 3914
Bse118I	R!CCGGY	7	666; 826; 1186; 2019; 3121; 3302; 3585
BseAI	T!CCGGA	0	
BseBI	CC!WGG	14	90; 283; 846; 856; 1054; 2338; 2393; 2410; 3189; 3768; 3871; 4561; 4574; 4695
BseCI	AT!CGAT	1	2642
BseDI	C!CNNGG	22	360; 649; 656; 702; 765; 844; 854; 1001; 1053; 1355; 2336; 2408; 2531; 2566; 2575; 2624; 2965; 3234; 3639; 3767; 3870; 4560
Bse3DI	GCAATGNN!	2	744; 3035
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	8	750; 810; 1074; 1311; 2662; 3119; 3144; 3598
BseGI	!CATCC	2	761; 2488
BseJI	GATNN!NNATC	2	1464; 2661
BseLI	CCNNNNN!NNGG	22	49; 720; 771; 845; 1002; 1080; 1243; 1814; 2140; 2532; 2783; 3327; 3608; 3640; 3772; 3807; 3857; 3889; 4242; 4521; 4687; 4705
BseMI	GCAATGNN!	2	744; 3035
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	3	620; 1446; 3928
BseMII	!NNNNNNNNCTGAG	7	1288; 1386; 2273; 2575; 3456; 4028; 4437
BseNI	ACTGGN!	3	2746; 2947; 4193
BseNI	C!CAGT	8	295; 810; 882; 1421; 1831; 2509; 4305; 4318
BsePI	G!CGCGC	1	1350
BseRI	GAGGAGNNNNNNNNNN!	1	2620
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	8	657; 839; 845; 1259; 1265; 2748; 2841; 4410
BseXI	GCAGC!C	9	695; 1034; 1202; 1590; 2875; 2917; 3438; 3891; 4391
BseXI	!NNNNNNNNNNNGCTGC	7	916; 2084; 2749; 2933; 3026; 4092; 4298
BseX3I	C!GGCCG	1	2708
BseYI	C!CCAGC	3	2345; 2417; 4416
BseYI	G!CTGGG	2	1080; 3306
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	970
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	804
Bsh1236I	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1451; 1726; 2102; 2122; 2146; 2177; 2868; 3169; 3607; 3691; 3754; 3823; 4096; 4677
Bsh1285I	CGRY!CG	3	671; 2711; 4386
BshFI	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1448; 1768; 1910; 2565; 2571; 2580; 2623; 2710; 2884; 3275; 3302; 3811; 3868; 3901; 4246; 4680; 4698; 4709
BshNI	G!GYRCC	7	465; 645; 688; 877; 1955; 2801; 2836
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	2642
BsiEI	CGRY!CG	3	671; 2711; 4386
BsiHKAI	GWGCW!C	6	620; 853; 1259; 2915; 3105; 4410
BsiHKCI	C!YCGRG	4	613; 656; 904; 1264
BsiSI	C!CGG	21	601; 657; 667; 827; 1187; 2020; 2707; 2784; 2806; 2834; 2965; 3055; 3122; 3303; 3578; 3586; 3678; 4152; 4342; 4368; 4515
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	22	49; 720; 771; 845; 1002; 1080; 1243; 1814; 2140; 2532; 2783; 3327; 3608; 3640; 3772; 3807; 3857; 3889; 4242; 4521; 4687; 4705
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2953; 3485; 3594
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2318; 2390; 2454; 3749
BsmI	GAATGCN!	1	1553
BsmI	G!CATTC	1	1646
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	1336; 2226; 2644; 3663; 3791

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BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2953; 3485; 3594
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2318; 2390; 2454; 3749
BsnI	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1448; 1768; 1910; 2565; 2571; 2580; 2623; 2710; 2884; 3275; 3302; 3811; 3868; 3901; 4246; 4680; 4698; 4709
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACG	2	1336; 3791
BsoBI	C!YCGRG	4	613; 656; 904; 1264
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	360; 2531; 3234
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3605
Bsp24I	!NNNNNNCCANNNNNGTC	2	4026; 4204
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4058; 4236
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3573
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 3484
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	27	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1417; 1459; 2639; 2643; 2662; 2973; 3051; 3132; 3141; 3219; 3595; 3611; 3970; 3982; 4060; 4068; 4079; 4154
Bsp1286I	GDGCH!C	15	620; 657; 839; 845; 853; 1259; 1265; 1993; 2748; 2841; 2915; 3105; 3167; 3877; 4410
Bsp1407I	T!GTACA	2	1028; 1121
Bsp1720I	GC!TNAGC	2	1297; 1395
BspACI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 649; 765; 996; 1320; 1365; 1449; 2117; 2120; 2134; 2224; 2472; 2484; 2493; 2505; 2515; 2526; 2572; 2711; 2774; 3276; 3321; 3387; 3413; 3538; 3541; 3689; 3821; 4128; 4272; 4768
BspACI	G!CGG	28	370; 403; 528; 651; 686; 767; 1244; 1247; 2062; 2089; 2177; 2287; 2868; 2932; 3033; 3036; 3316; 3371; 3469; 3607; 3754; 3894; 4137; 4382; 4503; 4522; 4649; 4677
BspCNI	CTCAGNNNNNNNN!	3	619; 1445; 3927
BspCNI	!NNNNNNCTGAG	7	1289; 1387; 2274; 2576; 3457; 4029; 4438
BspDI	AT!CGAT	1	2642
BspD6I	GACTCNNNN!	7	418; 612; 1412; 1461; 1875; 3481; 4358
BspD6I	!NNNNNGAGTC	2	1838; 2270
BspEI	T!CCGGA	0	
BspFNI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1451; 1726; 2102; 2122; 2146; 2177; 2868; 3169; 3607; 3691; 3754; 3823; 4096; 4677
BspHI	T!CATGA	2	2228; 4000
BspLI	GGN!NCC	21	467; 647; 655; 662; 690; 879; 903; 1251; 1957; 1978; 1990; 2181; 2342; 2414; 2803; 2838; 3686; 3765; 3810; 4653; 4692
BspMI	ACCTGCNNNN!	2	3070; 3520
BspMI	!NNNNNNNGCAGGT	1	2689
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	668; 2670; 2981; 3227; 3619; 3978; 4076; 4162
BspPI	!NNNNNGATCC	8	580; 655; 705; 1412; 3046; 3590; 3977; 4074
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	1150; 3146; 3356
BspTI	C!TTAAG	1	1684
BspT104I	TT!CGAA	2	627; 3484
BspT107I	G!GYRCC	7	465; 645; 688; 877; 1955; 2801; 2836
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1336; 3791
BsrI	ACTGGN!	3	2746; 2947; 4193
BsrI	C!CAGT	8	295; 810; 882; 1421; 1831; 2509; 4305; 4318
BsrBI	CCG!CTC	2	2226; 3415
BsrBI	GAG!CGG	2	2062; 3469
BsrDI	GCAATGNN!	2	744; 3035
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	666; 826; 1186; 2019; 3121; 3302; 3585
BsrGI	T!GTACA	2	1028; 1121
BsrSI	ACTGGN!	3	2746; 2947; 4193
BsrSI	C!CAGT	8	295; 810; 882; 1421; 1831; 2509; 4305; 4318

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssAI	R!CCGGY	7	666; 826; 1186; 2019; 3121; 3302; 3585
BssECI	C!CNNGG	22	360; 649; 656; 702; 765; 844; 854; 1001; 1053; 1355; 2336; 2408; 2531; 2566; 2575; 2624; 2965; 3234; 3639; 3767; 3870; 4560
BssHII	G!CGCGC	1	1350
BssKI	!CCNGG	20	88; 281; 655; 656; 844; 854; 1052; 2336; 2391; 2408; 2804; 2964; 3187; 3577; 3766; 3869; 4341; 4559; 4572; 4693
BssMI	!GATC	27	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1417; 1459; 2639; 2643; 2662; 2973; 3051; 3132; 3141; 3219; 3595; 3611; 3970; 3982; 4060; 4068; 4079; 4154
BssNI	GR!CGYC	9	122; 175; 258; 444; 689; 878; 2802; 3504; 3583
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1177; 3520; 4547
BssSI	C!TCGTG	1	3394
BssT1I	C!CWVGG	5	360; 2531; 2624; 3234; 3639
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	1150; 2269; 3146; 3356
Bst98I	C!TTAAG	1	1684
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 689; 878; 2802; 3504; 3583
BstAFI	C!TTAAG	1	1684
BstAPI	GCANNNN!NTGC	3	2369; 2441; 3903
BstAUI	T!GTACA	2	1028; 1121
BstBI	TT!CGAA	2	627; 3484
Bst2BI	C!ACGAG	3	1177; 3520; 4547
Bst2BI	C!TCGTG	1	3394
BstBAI	YAC!GTR	8	340; 720; 948; 1077; 1260; 1290; 1918; 3106
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 645; 1347; 1893; 3182; 3298; 3406; 3729; 4220; 4690; 4761
BstC8I	GCN!NGC	31	86; 279; 593; 653; 789; 934; 1352; 2021; 2064; 2078; 2351; 2370; 2423; 2442; 2696; 2882; 3101; 3167; 3173; 3205; 3246; 3250; 3304; 3587; 3774; 3821; 3877; 3899; 4110; 4670; 4707
BstDEI	C!TNAG	10	606; 1297; 1395; 1432; 2282; 2584; 3465; 3914; 4037; 4446
BstDSI	C!CRYGG	7	360; 649; 702; 765; 1355; 2531; 3234
BstEII	G!GTNACC	2	858; 1005
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	8	750; 810; 1074; 1311; 2662; 3119; 3144; 3598
BstF5I	!CATCC	2	761; 2488
BstFNI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1451; 1726; 2102; 2122; 2146; 2177; 2868; 3169; 3607; 3691; 3754; 3823; 4096; 4677
BstH2I	RGCGC!Y	8	598; 692; 881; 1163; 2069; 2077; 2805; 4480
BstHHI	GCG!C	28	597; 691; 880; 959; 1000; 1162; 1352; 1354; 2068; 2076; 2102; 2124; 2133; 2146; 2177; 2796; 2804; 2868; 2905; 3171; 3431; 3607; 3693; 4096; 4205; 4379; 4479; 4546
BstKTI	GAT!C	27	588; 612; 663; 713; 1137; 1172; 1184; 1218; 1317; 1420; 1462; 2642; 2646; 2665; 2976; 3054; 3135; 3144; 3222; 3598; 3614; 3973; 3985; 4063; 4071; 4082; 4157
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	5	1336; 2226; 2644; 3663; 3791
BstMBI	!GATC	27	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1417; 1459; 2639; 2643; 2662; 2973; 3051; 3132; 3141; 3219; 3595; 3611; 3970; 3982; 4060; 4068; 4079; 4154
BstMCI	CGRY!CG	3	671; 2711; 4386
BstMWI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 767; 788; 827; 884; 1157; 1196; 1391; 2029; 2059; 2086; 2128; 2369; 2441; 2492; 2571; 2793; 2877; 2900; 3039; 3162; 3245; 3512; 3699; 3903; 4102; 4674
BstNI	CC!WGG	14	90; 283; 846; 856; 1054; 2338; 2393; 2410; 3189; 3768; 3871; 4561; 4574; 4695
BstNSI	RCATG!Y	5	936; 2372; 2444; 3207; 4724
BstOI	CC!WGG	14	90; 283; 846; 856; 1054; 2338; 2393; 2410; 3189; 3768; 3871; 4561; 4574; 4695
BstPI	G!GTNACC	2	858; 1005
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	20	88; 281; 655; 656; 844; 854; 1052; 2336; 2391; 2408; 2804; 2964; 3187; 3577; 3766; 3869; 4341; 4559; 4572; 4693
BstSFI	C!TRYAG	4	634; 2137; 4264; 4455
BstSLI	GKGC!C	8	657; 839; 845; 1259; 1265; 2748; 2841; 4410

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1451; 1726; 2102; 2122; 2146; 2177; 2868; 3169; 3607; 3691; 3754; 3823; 4096; 4677
Bst2UI	CC!WGG	14	90; 283; 846; 856; 1054; 2338; 2393; 2410; 3189; 3768; 3871; 4561; 4574; 4695
BstV1I	GCAGCNNNNNNNN!	9	695; 1034; 1202; 1590; 2875; 2917; 3438; 3891; 4391
BstV1I	!NNNNNNNNNNNGCTGC	7	916; 2084; 2749; 2933; 3026; 4092; 4298
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 609; 660; 710; 1169; 1417; 2973; 3219; 3611; 3970; 3982; 4068; 4079
BstYI	R!GATCY	13	585; 609; 660; 710; 1169; 1417; 2973; 3219; 3611; 3970; 3982; 4068; 4079
BstZI	C!GGCCG	1	2708
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2231; 3021; 4522
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2642
Bsu36I	CC!TNAGG	2	2282; 3914
BsuRI	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1448; 1768; 1910; 2565; 2571; 2580; 2623; 2710; 2884; 3275; 3302; 3811; 3868; 3901; 4246; 4680; 4698; 4709
BsuTUI	AT!CGAT	1	2642
BtgI	C!CRYGG	7	360; 649; 702; 765; 1355; 2531; 3234
BtgZI	GCGATGNNNNNNNNNN!	5	797; 845; 992; 1919; 3254
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3073; 3417
BthCI	GCNG!C	38	686; 689; 770; 932; 1025; 1193; 1247; 1250; 1367; 1451; 1581; 2100; 2122; 2136; 2574; 2713; 2765; 2776; 2866; 2871; 2908; 2949; 3036; 3039; 3042; 3278; 3374; 3415; 3429; 3543; 3882; 3897; 4108; 4314; 4317; 4382; 4525; 4680
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	1113; 1641
BtsCI	GGATGNN!	8	750; 810; 1074; 1311; 2662; 3119; 3144; 3598
BtsCI	!CATCC	2	761; 2488
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3070; 3520
BveI	!NNNNNNNNNGCAGGT	1	2689
Cac8I	GCN!NGC	31	86; 279; 593; 653; 789; 934; 1352; 2021; 2064; 2078; 2351; 2370; 2423; 2442; 2696; 2882; 3101; 3167; 3173; 3205; 3246; 3250; 3304; 3587; 3774; 3821; 3877; 3899; 4110; 4670; 4707
CaiI	CAGNNN!CTG	2	3903; 4311
CciI	T!CATGA	2	2228; 4000
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 1209; 1242; 3091; 3096; 3294; 3435
CdiI	C!GATG	6	783; 831; 939; 978; 1905; 3240
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4674
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2463; 2505
CelII	GC!TNAGC	2	1297; 1395
CfoI	GCG!C	28	597; 691; 880; 959; 1000; 1162; 1352; 1354; 2068; 2076; 2102; 2124; 2133; 2146; 2177; 2796; 2804; 2868; 2905; 3171; 3431; 3607; 3693; 4096; 4205; 4379; 4479; 4546
CfrI	Y!GGCCR	9	747; 1050; 1071; 1211; 1446; 2708; 2882; 3273; 3300
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	7	666; 826; 1186; 2019; 3121; 3302; 3585
Cfr13I	G!GNCC	11	83; 276; 654; 901; 1249; 1909; 3318; 3763; 3809; 3867; 3900
Cfr42I	CCGC!GG	2	652; 768
ChaI	GATC!	27	589; 613; 664; 714; 1138; 1173; 1185; 1219; 1318; 1421; 1463; 2643; 2647; 2666; 2977; 3055; 3136; 3145; 3223; 3599; 3615; 3974; 3986; 4064; 4072; 4083; 4158
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	5	1138; 2619; 4059; 4159; 4237
CjeI	!NNNNNNNNNACNNNNNNNTGG	8	64; 257; 1428; 2286; 2381; 3573; 4123; 4678
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNNNN!	8	98; 291; 1462; 2320; 2415; 3607; 4157; 4712
CjeI	!NNNNNNNNCCANNNNNNGT	5	1104; 2585; 4025; 4125; 4203
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNNNN!	2	4059; 4237

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjePI	!NNNNNNNNNGANNNNNNNTGG	4	257; 1032; 3573; 4172
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	4	290; 1065; 3606; 4205
CjePI	!NNNNNNNCCANNNNNNNTC	2	4026; 4204
Clal	AT!CGAT	1	2642
CpoI	CG!GWCCG	1	3318
CseI	GACGCNNNNN!	3	526; 3512; 3591
CseI	!NNNNNNNNNNNGCGTC	3	2135; 4030; 4608
CsiI	A!CCWGGT	1	2391
CspI	CG!GWCCG	1	3318
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 897; 1029; 1122; 1269; 3107
Csp45I	TT!CGAA	2	627; 3484
CspAI	A!CCGGT	1	666
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1364; 2082; 3691
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	18	301; 361; 678; 933; 1278; 2229; 2369; 2441; 2532; 2673; 3018; 3204; 3235; 3261; 3617; 4001; 4721; 4772
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; 1385; 1394; 1399; 1448; 1471; 1581; 1748; 1768; 1910; 1991; 2005; 2019; 2300; 2341; 2413; 2536; 2565; 2571; 2580; 2588; 2611; 2623; 2629; 2710; 2727; 2735; 2762; 2787; 2871; 2880; 2884; 2908; 2946; 3022; 3039; 3058; 3121; 3165; 3175; 3192; 3275; 3302; 3306; 3343; 3366; 3382; 3562; 3589; 3650; 3772; 3811; 3868; 3875; 3882; 3901; 3912; 4163; 4192; 4235; 4246; 4311; 4390; 4415; 4420; 4466; 4556; 4654; 4680; 4698; 4709
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; 1385; 1394; 1399; 1448; 1471; 1581; 1748; 1768; 1910; 1991; 2005; 2019; 2300; 2341; 2413; 2536; 2565; 2571; 2580; 2588; 2611; 2623; 2629; 2710; 2727; 2735; 2762; 2787; 2871; 2880; 2884; 2908; 2946; 3022; 3039; 3058; 3121; 3165; 3175; 3192; 3275; 3302; 3306; 3343; 3366; 3382; 3562; 3589; 3650; 3772; 3811; 3868; 3875; 3882; 3901; 3912; 4163; 4192; 4235; 4246; 4311; 4390; 4415; 4420; 4466; 4556; 4654; 4680; 4698; 4709
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 897; 1029; 1122; 1269; 3107
DdeI	C!TNAG	10	606; 1297; 1395; 1432; 2282; 2584; 3465; 3914; 4037; 4446
DinI	GGC!GCC	3	690; 879; 2803
DpnI	GA!TC	27	587; 611; 662; 712; 1136; 1171; 1183; 1217; 1316; 1419; 1461; 2641; 2645; 2664; 2975; 3053; 3134; 3143; 3221; 3597; 3613; 3972; 3984; 4062; 4070; 4081; 4156
DpnII	!GATC	27	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1417; 1459; 2639; 2643; 2662; 2973; 3051; 3132; 3141; 3219; 3595; 3611; 3970; 3982; 4060; 4068; 4079; 4154
DraI	TTT!AAA	3	1504; 3946; 3965
DraII	RG!GNCCY	1	3900
DraIII	CACNN!GTG	1	1918
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 920; 4282
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTTG	0	
DrdI	GACNNN!NNGTC	3	1873; 2829; 4618
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1873; 2829; 4618
EaeI	Y!GGCCR	9	747; 1050; 1071; 1211; 1446; 2708; 2882; 3273; 3300
EagI	C!GGCCG	1	2708
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	1150; 2269; 3146; 3356
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	4	1150; 2269; 3146; 3356

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EciI	GGCGGANNNNNNNNNN!	4	2302; 3331; 4518; 4664
EciI	!NNNNNNNNNTCCGCC	4	496; 2473; 2494; 2515
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	1	2708
Eco24I	GRGCY!C	5	620; 657; 1993; 3167; 3877
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1336; 3791
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3318; 3763
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	2708
Eco57I	CTGAAGNNNNNNNNNNNNNN!	5	931; 1174; 1357; 2948; 3380
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	741; 4178
Eco72I	CAC!GTG	3	1077; 1260; 1290
Eco81I	CC!TNAGG	2	2282; 3914
Eco88I	C!YCGRG	4	613; 656; 904; 1264
Eco91I	G!GTNACC	2	858; 1005
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	5	360; 2531; 2624; 3234; 3639
Eco147I	AGG!CCT	1	2623
EcoHI	!CCSGG	6	655; 656; 2804; 2964; 3577; 4341
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	8	867; 931; 1114; 1174; 1357; 2948; 3380; 3642
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	741; 3585; 4178
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	2	858; 1005
Eco0109I	RG!GNCCY	1	3900
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	14	88; 281; 844; 854; 1052; 2336; 2391; 2408; 3187; 3766; 3869; 4559; 4572; 4693
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	360; 2531; 2624; 3234; 3639
EcoT22I	ATGCA!T	3	2374; 2446; 4777
EcoT38I	GRGCY!C	5	620; 657; 1993; 3167; 3877
Eco53kI	GAG!CTC	1	618
EgeI	GGC!GCC	3	690; 879; 2803
EheI	GGC!GCC	3	690; 879; 2803
ErhI	C!CWWGG	5	360; 2531; 2624; 3234; 3639
EsaBC3I	TC!GA	16	615; 628; 641; 972; 1014; 1952; 2643; 2916; 3072; 3096; 3132; 3294; 3485; 3530; 3785; 4623
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	18	304; 364; 681; 936; 1281; 2232; 2372; 2444; 2535; 2676; 3021; 3207; 3238; 3264; 3620; 4004; 4724; 4775
Fail	YA!TR	55	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 934; 1279; 1330; 1464; 1474; 1540; 1585; 1790; 2218; 2230; 2361; 2370; 2433; 2442; 2466; 2533; 2557; 2674; 2738; 3019; 3044; 3205; 3236; 3262; 3334; 3550; 3618; 3696; 3748; 3909; 3926; 3928; 3930; 4002; 4280; 4469; 4585; 4658; 4722; 4773
FalI	AAGNNNNNCTNNNNNNNNNNNN!	2	1179; 3142
FalI	!NNNNNNNNAAGNNNNNCTT	2	1147; 3110
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2953; 3485; 3594
FaqI	!NNNNNNNNNNNNNGTCCC	4	2318; 2390; 2454; 3749
FatI	!CATG	18	300; 360; 677; 932; 1277; 2228; 2368; 2440; 2531; 2672; 3017; 3203; 3234; 3260; 3616; 4000; 4720; 4771
FauI	CCCGCNNNN!	9	93; 119; 286; 1003; 2124; 2479; 2500; 3696; 3828
FauI	!NNNNNNGCGGG	6	644; 2055; 2925; 3462; 3600; 3747
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	640
FmuI	GGNC!C	11	86; 279; 657; 904; 1252; 1912; 3321; 3766; 3812; 3870; 3903
Fnu4HI	GC!NGC	38	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1449; 1579; 2098; 2120; 2134; 2572; 2711; 2763; 2774; 2864; 2869; 2906; 2947; 3034; 3037; 3040; 3276; 3372; 3413; 3427; 3541; 3880; 3895; 4106; 4312; 4315; 4380; 4523; 4678

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FokI	GGATGNNNNNNNNNN!	8	757; 817; 1081; 1318; 2669; 3126; 3151; 3605
FokI	!NNNNNNNNNNNNNCATCC	2	748; 2475
FriOI	GRGCY!C	5	620; 657; 1993; 3167; 3877
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2904
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1457; 1651; 2069; 2625; 3640; 3974; 4227
FspEI	CCNNNNNNNNNNNN!	162	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 705; 727; 763; 778; 801; 822; 837; 851; 867; 885; 906; 950; 975; 1008; 1023; 1066; 1087; 1122; 1155; 1176; 1200; 1227; 1248; 1264; 1278; 1300; 1326; 1348; 1368; 1386; 1421; 1444; 1462; 1485; 1524; 1538; 1679; 1774; 1798; 1821; 1844; 1862; 1884; 1905; 1924; 1943; 1972; 1993; 2007; 2033; 2121; 2147; 2196; 2237; 2255; 2294; 2310; 2348; 2405; 2420; 2477; 2497; 2511; 2528; 2542; 2579; 2594; 2637; 2720; 2787; 2818; 2838; 2853; 2898; 2912; 2978; 2992; 3011; 3027; 3068; 3088; 3135; 3185; 3201; 3221; 3246; 3266; 3289; 3316; 3334; 3360; 3400; 3426; 3450; 3506; 3520; 3548; 3591; 3612; 3647; 3691; 3779; 3803; 3825; 3845; 3861; 3882; 3896; 3915; 3999; 4019; 4047; 4062; 4096; 4138; 4165; 4180; 4225; 4249; 4263; 4285; 4311; 4331; 4355; 4381; 4429; 4448; 4467; 4493; 4528; 4573; 4603; 4617; 4668; 4682; 4707; 4723; 4744; 4773
FspEI	!NNNNNNNNNNNNNNNGG	132	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 671; 689; 709; 727; 752; 778; 812; 831; 860; 884; 926; 958; 988; 1034; 1055; 1078; 1113; 1133; 1172; 1195; 1226; 1288; 1324; 1342; 1386; 1430; 1473; 1573; 1642; 1672; 1750; 1799; 1821; 1849; 1885; 1930; 1959; 1995; 2014; 2042; 2062; 2125; 2148; 2256; 2288; 2306; 2335; 2378; 2407; 2518; 2547; 2590; 2611; 2639; 2672; 2692; 2717; 2744; 2769; 2791; 2819; 2845; 2866; 2917; 2938; 2956; 3004; 3040; 3096; 3121; 3145; 3174; 3197; 3221; 3247; 3269; 3288; 3313; 3353; 3389; 3454; 3539; 3563; 3592; 3626; 3647; 3667; 3712; 3739; 3758; 3791; 3843; 3874; 3901; 3953; 4051; 4122; 4167; 4228; 4293; 4327; 4353; 4371; 4407; 4477; 4500; 4522; 4546; 4579; 4627; 4662; 4680; 4737
Fsp4HI	GC!NGC	38	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1449; 1579; 2098; 2120; 2134; 2572; 2711; 2763; 2774; 2864; 2869; 2906; 2947; 3034; 3037; 3040; 3276; 3372; 3413; 3427; 3541; 3880; 3895; 4106; 4312; 4315; 4380; 4523; 4678
GdiII	C!GGCCR	1	2708
GdiII	Y!GGCCG	5	1211; 1446; 2708; 3273; 3300
GlaI	GC!GC	28	596; 690; 879; 958; 999; 1161; 1351; 1353; 2067; 2075; 2101; 2123; 2132; 2145; 2176; 2795; 2803; 2867; 2904; 3170; 3430; 3606; 3692; 4095; 4204; 4378; 4478; 4545
GluI	GC!NGC	38	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1449; 1579; 2098; 2120; 2134; 2572; 2711; 2763; 2774; 2864; 2869; 2906; 2947; 3034; 3037; 3040; 3276; 3372; 3413; 3427; 3541; 3880; 3895; 4106; 4312; 4315; 4380; 4523; 4678
GsaI	CCCAG!C	3	2349; 2421; 4420
GsaI	GCTGG!G	2	1084; 3310
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	867; 1114; 3642
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3585
HaeI	WGG!CCW	9	749; 1052; 1073; 1141; 2623; 2884; 4246; 4698; 4709
HaeII	RGCGC!Y	8	598; 692; 881; 1163; 2069; 2077; 2805; 4480
HaeIII	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1448; 1768; 1910; 2565; 2571; 2580; 2623; 2710; 2884; 3275; 3302; 3811; 3868; 3901; 4246; 4680; 4698; 4709
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1477; 2998
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1443; 2964
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1476; 2997
HaeIV	!NNNNNNNGAYNNNNNNRTC	2	1445; 2966
HapII	C!CGG	21	601; 657; 667; 827; 1187; 2020; 2707; 2784; 2806; 2834; 2965; 3055; 3122; 3303; 3578; 3586; 3678; 4152; 4342; 4368; 4515
HgaI	GACGCNNNNN!	3	526; 3512; 3591
HgaI	!NNNNNNNNNNNGCGTC	3	2135; 4030; 4608
HhaI	GCG!C	28	597; 691; 880; 959; 1000; 1162; 1352; 1354; 2068; 2076; 2102; 2124; 2133; 2146; 2177; 2796; 2804; 2868; 2905; 3171; 3431; 3607; 3693; 4096; 4205; 4379; 4479; 4546
HinII	GR!CGYC	9	122; 175; 258; 444; 689; 878; 2802; 3504; 3583

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hin1III	CATG!	18	304; 364; 681; 936; 1281; 2232; 2372; 2444; 2535; 2676; 3021; 3207; 3238; 3264; 3620; 4004; 4724; 4775
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1476; 2997
Hin4I	!NNNNNNNGABNNNNNRTC	3	1444; 2965; 2995
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1476; 2997; 3027
Hin4I	!NNNNNNNGAYNNNNNVTC	2	1444; 2965
Hin6I	G!CGC	28	595; 689; 878; 957; 998; 1160; 1350; 1352; 2066; 2074; 2100; 2122; 2131; 2144; 2175; 2794; 2802; 2866; 2903; 3169; 3429; 3605; 3691; 4094; 4203; 4377; 4477; 4544
HinP1I	G!CGC	28	595; 689; 878; 957; 998; 1160; 1350; 1352; 2066; 2074; 2100; 2122; 2131; 2144; 2175; 2794; 2802; 2866; 2903; 3169; 3429; 3605; 3691; 4094; 4203; 4377; 4477; 4544
HincII	GTY!RAC	2	641; 1565
HindII	GTY!RAC	2	641; 1565
HindIII	A!AGCTT	2	622; 1383
HinfI	G!ANTC	15	410; 604; 1089; 1404; 1453; 1845; 1867; 2277; 3287; 3421; 3473; 3531; 3568; 4350; 4746
HpaI	GTT!AAC	1	1565
HpaII	C!CGG	21	601; 657; 667; 827; 1187; 2020; 2707; 2784; 2806; 2834; 2965; 3055; 3122; 3303; 3578; 3586; 3678; 4152; 4342; 4368; 4515
HphI	GGTGANNNNNNNN!	5	376; 870; 1017; 3873; 3989
HphI	!NNNNNNNTCACC	6	957; 1098; 1176; 1309; 1919; 2980
Hpy8I	GTN!NAC	11	201; 539; 577; 641; 1029; 1257; 1565; 1849; 1866; 1921; 4408
Hpy99I	CGWCG!	8	645; 2892; 2920; 3214; 3229; 3506; 3891; 4624
Hpy166II	GTN!NAC	11	201; 539; 577; 641; 1029; 1257; 1565; 1849; 1866; 1921; 4408
Hpy188I	TCN!GA	13	585; 609; 1435; 1976; 2585; 2769; 3113; 3466; 3567; 4046; 4180; 4533; 4611
Hpy188III	TC!NNGA	26	613; 990; 1014; 1062; 1093; 1167; 1457; 2229; 2281; 2594; 2647; 2820; 3136; 3145; 3228; 3284; 3328; 3418; 3451; 3520; 4001; 4075; 4158; 4256; 4354; 4488
HpyAV	CCTCANNNNNN!	7	765; 978; 1020; 1173; 3447; 3554; 4233
HpyAV	!NNNNNGAAGG	10	906; 1059; 1332; 2035; 2930; 3659; 3675; 3858; 4175; 4485
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 645; 1347; 1893; 3182; 3298; 3406; 3729; 4220; 4690; 4761
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 719; 947; 1076; 1259; 1289; 1862; 1874; 1917; 2027; 2918; 3105; 3886; 4019
HpyCH4V	TG!CA	21	636; 821; 932; 951; 1257; 1551; 1578; 1646; 2363; 2372; 2435; 2444; 2559; 2635; 2694; 2853; 3028; 3042; 4112; 4408; 4775
HpyF3I	C!TNAG	10	606; 1297; 1395; 1432; 2282; 2584; 3465; 3914; 4037; 4446
HpyF10VI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 767; 788; 827; 884; 1157; 1196; 1391; 2029; 2059; 2086; 2128; 2369; 2441; 2492; 2571; 2793; 2877; 2900; 3039; 3162; 3245; 3512; 3699; 3903; 4102; 4674
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 689; 878; 2802; 3504; 3583
Hsp92II	CATG!	18	304; 364; 681; 936; 1281; 2232; 2372; 2444; 2535; 2676; 3021; 3207; 3238; 3264; 3620; 4004; 4724; 4775
HspAI	G!CGC	28	595; 689; 878; 957; 998; 1160; 1350; 1352; 2066; 2074; 2100; 2122; 2131; 2144; 2175; 2794; 2802; 2866; 2903; 3169; 3429; 3605; 3691; 4094; 4203; 4377; 4477; 4544
KasI	G!GCGCC	3	688; 877; 2801
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	1565
Kzo9I	!GATC	27	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1417; 1459; 2639; 2643; 2662; 2973; 3051; 3132; 3141; 3219; 3595; 3611; 3970; 3982; 4060; 4068; 4079; 4154
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	3	1150; 3146; 3356
LpnI	RGC!GCG	8	596; 690; 879; 1161; 2067; 2075; 2803; 4478
LpnPI	CCDGNNNNNNNNN!	63	102; 295; 614; 670; 706; 801; 823; 840; 858; 880; 895; 1066; 1132; 1165; 1200; 1237; 1348; 1390; 1421; 1539; 1844; 2033; 2256; 2294; 2310; 2350; 2405; 2422; 2522; 2607; 2720; 2797; 2819; 2842; 2978; 2992; 3011; 3068; 3135; 3185; 3201; 3258; 3316; 3525; 3591; 3615; 3691; 3780; 3883; 3916; 4147; 4165; 4311; 4331; 4355; 4381; 4430; 4528; 4573; 4603; 4682; 4707; 4744

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LpnPI	!NNNNNNNNNNNNNNCHGG	54	75; 268; 552; 586; 642; 812; 831; 937; 1039; 1066; 1113; 1172; 1430; 1885; 2005; 2062; 2125; 2323; 2335; 2395; 2407; 2639; 2684; 2727; 2769; 2791; 2819; 2866; 2928; 2950; 3040; 3107; 3130; 3174; 3269; 3288; 3313; 3462; 3563; 3606; 3663; 3753; 3856; 3883; 3901; 4137; 4174; 4327; 4353; 4493; 4511; 4546; 4627; 4680
Lsp1109I	GCAGCNNNNNNNN!	9	695; 1034; 1202; 1590; 2875; 2917; 3438; 3891; 4391
Lsp1109I	!NNNNNNNNNNNNNGCTGC	7	916; 2084; 2749; 2933; 3026; 4092; 4298
LweI	GCATCNNNNN!	7	770; 1618; 2381; 2453; 3101; 3165; 3440
LweI	!NNNNNNNNNGATGC	7	357; 774; 795; 2760; 3015; 3231; 4623
MabI	A!CCWGGT	1	2391
MaeI	C!TAG	8	592; 1457; 1651; 2069; 2625; 3640; 3974; 4227
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 719; 947; 1076; 1259; 1289; 1862; 1874; 1917; 2027; 2918; 3105; 3886; 4019
MaeIII	!GTNAC	15	61; 148; 497; 858; 1005; 1308; 1590; 2091; 2103; 2922; 3228; 3918; 4184; 4300; 4363
MalI	GA!TC	27	587; 611; 662; 712; 1136; 1171; 1183; 1217; 1316; 1419; 1461; 2641; 2645; 2664; 2975; 3053; 3134; 3143; 3221; 3597; 3613; 3972; 3984; 4062; 4070; 4081; 4156
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2226; 3415
MbiI	GAG!CGG	2	2062; 3469
MboI	!GATC	27	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1417; 1459; 2639; 2643; 2662; 2973; 3051; 3132; 3141; 3219; 3595; 3611; 3970; 3982; 4060; 4068; 4079; 4154
MboII	GAAGANNNNNNNN!	6	1167; 2058; 2286; 3163; 3373; 3992
MboII	!NNNNNNNTCTTC	4	3453; 3620; 3820; 4063
McaTI	GCGC!GC	1	1353
MfeI	C!AATTG	1	1552
MfiI	R!GATCY	13	585; 609; 660; 710; 1169; 1417; 2973; 3219; 3611; 3970; 3982; 4068; 4079
MhII	GDGCH!C	15	620; 657; 839; 845; 853; 1259; 1265; 1993; 2748; 2841; 2915; 3105; 3167; 3877; 4410
MlsI	TGG!CCA	4	749; 1052; 1073; 2884
MluI	A!CGCGT	0	
MluNI	TGG!CCA	4	749; 1052; 1073; 2884
MlyI	GAGTCNNNNN!	2	1854; 2286
MlyI	!NNNNNGACTC	7	404; 598; 1398; 1447; 1861; 3467; 4344
Mly113I	GG!CGCC	3	689; 878; 2802
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	1	1895
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4327; 4511
MnII	CCTCNNNNNNN!	8	1441; 1521; 2585; 3403; 3609; 3923; 4293; 4617
MnII	!NNNNNGAGG	16	541; 726; 966; 996; 1481; 1946; 2277; 2555; 2598; 2613; 2653; 2717; 2853; 3210; 3640; 4543
Mph1103I	ATGCA!T	3	2374; 2446; 4777
MreI	CG!CCGCGG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	2019; 3302; 3585
MroXI	GAANN!NNTTC	1	916
MscI	TGG!CCA	4	749; 1052; 1073; 2884
MseI	T!TAA	16	7; 1387; 1503; 1564; 1685; 1706; 1717; 1729; 1740; 1757; 1855; 2126; 3945; 3959; 3964; 4016
MslI	CAYNN!NNRTG	4	365; 856; 1225; 3239
MspI	C!CGG	21	601; 657; 667; 827; 1187; 2020; 2707; 2784; 2806; 2834; 2965; 3055; 3122; 3303; 3578; 3586; 3678; 4152; 4342; 4368; 4515
Msp20I	TGG!CCA	4	749; 1052; 1073; 2884
MspA1I	CMG!CKG	7	651; 686; 767; 2300; 2908; 4137; 4382
MspCI	C!TTAAG	1	1684

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	244	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; 1398; 1412; 1433; 1446; 1462; 1475; 1490; 1509; 1526; 1539; 1580; 1594; 1607; 1625; 1663; 1678; 1696; 1737; 1761; 1781; 1799; 1820; 1843; 1875; 1890; 1912; 1930; 1943; 1964; 1981; 1994; 2007; 2023; 2036; 2066; 2081; 2106; 2124; 2137; 2152; 2176; 2190; 2214; 2239; 2255; 2293; 2309; 2348; 2362; 2376; 2404; 2420; 2434; 2448; 2477; 2490; 2511; 2520; 2542; 2572; 2588; 2606; 2636; 2659; 2683; 2707; 2726; 2754; 2780; 2796; 2809; 2832; 2846; 2866; 2879; 2893; 2912; 2926; 2939; 2955; 2970; 2983; 2999; 3014; 3030; 3055; 3074; 3090; 3103; 3116; 3134; 3148; 3162; 3178; 3200; 3216; 3235; 3257; 3273; 3296; 3315; 3329; 3345; 3359; 3379; 3395; 3408; 3430; 3463; 3477; 3497; 3510; 3524; 3578; 3591; 3614; 3627; 3646; 3663; 3690; 3726; 3759; 3778; 3803; 3824; 3851; 3864; 3881; 3895; 3910; 3926; 3986; 4011; 4027; 4049; 4062; 4076; 4107; 4121; 4146; 4164; 4179; 4192; 4211; 4224; 4239; 4268; 4287; 4305; 4330; 4345; 4364; 4380; 4399; 4417; 4433; 4447; 4466; 4493; 4516; 4538; 4557; 4572; 4585; 4602; 4622; 4649; 4662; 4681; 4706; 4729; 4743; 4756; 4773
MspJI	!NNNNNNNNNNNNYNG	204	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; 1377; 1394; 1419; 1436; 1454; 1483; 1512; 1554; 1637; 1672; 1699; 1722; 1751; 1795; 1817; 1849; 1885; 1902; 1923; 1960; 1980; 1997; 2014; 2049; 2067; 2085; 2102; 2126; 2148; 2175; 2203; 2229; 2267; 2288; 2305; 2323; 2346; 2367; 2395; 2418; 2439; 2457; 2478; 2495; 2518; 2542; 2562; 2580; 2602; 2633; 2655; 2681; 2700; 2717; 2745; 2764; 2783; 2801; 2819; 2840; 2862; 2886; 2919; 2939; 2957; 2978; 3004; 3031; 3048; 3065; 3082; 3108; 3130; 3152; 3170; 3190; 3209; 3231; 3269; 3289; 3313; 3333; 3353; 3380; 3404; 3437; 3456; 3484; 3506; 3535; 3563; 3588; 3607; 3626; 3647; 3664; 3681; 3712; 3739; 3759; 3782; 3802; 3839; 3856; 3875; 3901; 3921; 3960; 3987; 4006; 4024; 4061; 4079; 4120; 4138; 4164; 4181; 4213; 4242; 4270; 4291; 4314; 4333; 4354; 4372; 4389; 4407; 4433; 4454; 4474; 4494; 4512; 4533; 4559; 4576; 4595; 4614; 4643; 4662; 4680; 4699; 4717; 4735; 4758
MspR9I	CC!NGG	20	90; 283; 657; 658; 846; 856; 1054; 2338; 2393; 2410; 2806; 2966; 3189; 3579; 3768; 3871; 4343; 4561; 4574; 4695
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1552
MvaI	CC!WGG	14	90; 283; 846; 856; 1054; 2338; 2393; 2410; 3189; 3768; 3871; 4561; 4574; 4695
Mva1269I	GAATGCN!	1	1553
Mva1269I	G!CATTC	1	1646
MvnI	CG!CG	21	60; 651; 767; 998; 1037; 1322; 1352; 1451; 1726; 2102; 2122; 2146; 2177; 2868; 3169; 3607; 3691; 3754; 3823; 4096; 4677
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 767; 788; 827; 884; 1157; 1196; 1391; 2029; 2059; 2086; 2128; 2369; 2441; 2492; 2571; 2793; 2877; 2900; 3039; 3162; 3245; 3512; 3699; 3903; 4102; 4674
NaeI	GCC!GGC	3	2021; 3304; 3587
NarI	GG!CGCC	3	689; 878; 2802
NciI	CC!SGG	6	657; 658; 2806; 2966; 3579; 4343
NcoI	C!CATGG	3	360; 2531; 3234
NdeI	CA!TATG	1	234
NdeII	!GATC	27	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1417; 1459; 2639; 2643; 2662; 2973; 3051; 3132; 3141; 3219; 3595; 3611; 3970; 3982; 4060; 4068; 4079; 4154
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	2	280; 884
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	2	244; 848
NgoMIV	G!CCGGC	3	2019; 3302; 3585

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NheI	G!CTAGC	1	591
NlaIII	CATG!	18	304; 364; 681; 936; 1281; 2232; 2372; 2444; 2535; 2676; 3021; 3207; 3238; 3264; 3620; 4004; 4724; 4775
NlaIV	GGN!NCC	21	467; 647; 655; 662; 690; 879; 903; 1251; 1957; 1978; 1990; 2181; 2342; 2414; 2803; 2838; 3686; 3765; 3810; 4653; 4692
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	987; 1634; 1949; 3541
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 4613
Nli3877I	CYCGR!G	4	617; 660; 908; 1268
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1026; 2591; 3027
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2556
NmeDI	RCCGGYNNNNNNNN!	7	678; 838; 1198; 2031; 3133; 3314; 3597
NmeDI	!NNNNNNNNNNNNRCCGGY	7	653; 813; 1173; 2006; 3108; 3289; 3572
NmuCI	!GTSAC	6	858; 1005; 1308; 2091; 2922; 3228
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2904
NsiI	ATGCA!T	3	2374; 2446; 4777
NspI	RCATG!Y	5	936; 2372; 2444; 3207; 4724
NspV	TT!CGAA	2	627; 3484
OliI	CACNN!NNGTG	1	856
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 648; 899; 1031; 1124; 1271; 3109
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	936; 2372; 2444; 3207
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	2228; 4000
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3767; 3870
PauI	G!CGCGC	1	1350
PceI	AGG!CCT	1	2623
PciI	A!CATGT	1	4720
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	3	1150; 3146; 3356
PcsI	WCGNNNN!NNNCGW	6	3096; 3173; 3416; 3490; 3883; 4401
PctI	GAATGCN!	1	1553
PctI	G!CATTC	1	1646
PdiI	GCC!GGC	3	2021; 3304; 3587
PdmI	GAANN!NNTTC	1	916
PfeI	G!AWTC	6	1089; 3287; 3421; 3531; 3568; 4746
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2920
PfIMI	CCANNNN!NTGG	1	1080
PfoI	T!CCNGGA	1	3577
PhoI	GG!CC	29	84; 277; 655; 749; 902; 1052; 1073; 1141; 1151; 1213; 1250; 1448; 1768; 1910; 2565; 2571; 2580; 2623; 2710; 2884; 3275; 3302; 3811; 3868; 3901; 4246; 4680; 4698; 4709
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3183
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2748; 3003
PleI	GAGTCNNNN!	2	1853; 2285
PleI	!NNNNNGACTC	7	404; 598; 1398; 1447; 1861; 3467; 4344
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	3	1077; 1260; 1290
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	3	1077; 1260; 1290
PpiI	GAACNNNNCTCNNNNNNNNNNNN!	1	1884
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	4014
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4046
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1852
PpsI	GAGTCNNNN!	2	1853; 2285
PpsI	!NNNNNGACTC	7	404; 598; 1398; 1447; 1861; 3467; 4344
Ppu10I	A!TGCAT	3	2370; 2442; 4773
Ppu21I	YAC!GTR	8	340; 720; 948; 1077; 1260; 1290; 1918; 3106
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4720

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1585; 1790
Psp03I	GGWC!C	2	3321; 3766
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	14	88; 281; 844; 854; 1052; 2336; 2391; 2408; 3187; 3766; 3869; 4559; 4572; 4693
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	3	1077; 1260; 1290
PspEI	G!GTNACC	2	858; 1005
PspGI	!CCWGG	14	88; 281; 844; 854; 1052; 2336; 2391; 2408; 3187; 3766; 3869; 4559; 4572; 4693
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	21	467; 647; 655; 662; 690; 879; 903; 1251; 1957; 1978; 1990; 2181; 2342; 2414; 2803; 2838; 3686; 3765; 3810; 4653; 4692
PspOMI	G!GGCCC	1	653
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	4	125; 905; 2532; 3531
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2934
PspPI	G!GNCC	11	83; 276; 654; 901; 1249; 1909; 3318; 3763; 3809; 3867; 3900
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	4	1451; 2355; 2427; 3933
PspPRI	!NNNNNNNNNNNNNNCTGRGG	3	1114; 2268; 3463
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3903
PstI	CTGCA!G	1	638
PstNI	CAGNNN!CTG	2	3903; 4311
PsuI	R!GATCY	13	585; 609; 660; 710; 1169; 1417; 2973; 3219; 3611; 3970; 3982; 4068; 4079
Psyl	GACN!NNGTC	1	2920
PteI	G!CGCGC	1	1350
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2300; 2908
RcaI	T!CATGA	2	2228; 4000
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	3317
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	1531
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 647; 898; 1030; 1123; 1270; 3108
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 897; 1029; 1122; 1269; 3107
RseI	CAYNN!NNRTG	4	365; 856; 1225; 3239
RsrII	CG!GWCCG	1	3318
Rsr2I	CG!GWCCG	1	3318
SacI	GAGCT!C	1	620
SacII	CCGC!GG	2	652; 768
SaI	G!TCGAC	1	639
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	1150; 3146; 3356
SaqAI	T!TAA	16	7; 1387; 1503; 1564; 1685; 1706; 1717; 1729; 1740; 1757; 1855; 2126; 3945; 3959; 3964; 4016

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SatI	GC!NGC	38	684; 687; 768; 930; 1023; 1191; 1245; 1248; 1365; 1449; 1579; 2098; 2120; 2134; 2572; 2711; 2763; 2774; 2864; 2869; 2906; 2947; 3034; 3037; 3040; 3276; 3372; 3413; 3427; 3541; 3880; 3895; 4106; 4312; 4315; 4380; 4523; 4678
Sau96I	G!GNCC	11	83; 276; 654; 901; 1249; 1909; 3318; 3763; 3809; 3867; 3900
Sau3AI	!GATC	27	585; 609; 660; 710; 1134; 1169; 1181; 1215; 1314; 1417; 1459; 2639; 2643; 2662; 2973; 3051; 3132; 3141; 3219; 3595; 3611; 3970; 3982; 4060; 4068; 4079; 4154
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1854; 2286
SchI	!NNNNNGACTC	7	404; 598; 1398; 1447; 1861; 3467; 4344
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	20	90; 283; 657; 658; 846; 856; 1054; 2338; 2393; 2410; 2806; 2966; 3189; 3579; 3768; 3871; 4343; 4561; 4574; 4695
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	978; 2380; 2452; 2621; 4563
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	1386; 2957; 3442
SdeOSI	GACNNNRTGANNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	15	620; 657; 839; 845; 853; 1259; 1265; 1993; 2748; 2841; 2915; 3105; 3167; 3877; 4410
SelI	!CGCG	21	58; 649; 765; 996; 1035; 1320; 1350; 1449; 1724; 2100; 2120; 2144; 2175; 2866; 3167; 3605; 3689; 3752; 3821; 4094; 4675
SetI	ASST!	73	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; 1387; 1396; 1401; 1433; 1492; 1513; 1522; 1534; 1583; 1750; 1865; 1877; 1920; 1957; 2007; 2030; 2154; 2302; 2397; 2590; 2703; 2831; 2910; 2921; 2993; 3064; 3108; 3368; 3514; 3558; 3889; 3920; 3979; 4022; 4165; 4186; 4285; 4422; 4437; 4456; 4468; 4512; 4558; 4609
SexAI	A!CCWGGT	1	2391
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	770; 1618; 2381; 2453; 3101; 3165; 3440
SfaNI	!NNNNNNNNNGATGC	7	357; 774; 795; 2760; 3015; 3231; 4623
SfcI	C!TRYAG	4	634; 2137; 4264; 4455
SfiI	GGCCNNNN!NGGCC	1	2577
SfoI	GGC!GCC	3	690; 879; 2803
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	2	652; 768
SfuI	TT!CGAA	2	627; 3484
SgeI	CNNGNNNNNNNNN!	192	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; 1412; 1433; 1457; 1509; 1538; 1580; 1663; 1737; 1821; 1843; 1875; 1912; 1930; 1949; 1964; 2006; 2023; 2040; 2075; 2089; 2106; 2128; 2152; 2176; 2241; 2255; 2293; 2309; 2349; 2362; 2381; 2404; 2421; 2434; 2453; 2483; 2504; 2521; 2544; 2579; 2606; 2637; 2659; 2685; 2707; 2726; 2754; 2790; 2809; 2832; 2846; 2866; 2879; 2893; 2912; 2926; 2945; 2977; 2991; 3004; 3030; 3061; 3074; 3091; 3108; 3122; 3139; 3157; 3172; 3200; 3216; 3235; 3257; 3273; 3296; 3315; 3340; 3359; 3379; 3406; 3430; 3463; 3482; 3510; 3524; 3590; 3614; 3629; 3652; 3673; 3690; 3738; 3765; 3779; 3808; 3832; 3865; 3882; 3902; 3915; 3928; 3986; 4013; 4032; 4062; 4087; 4107; 4121; 4146; 4164; 4201; 4239; 4268; 4296; 4310; 4330; 4345; 4366; 4380; 4399; 4417; 4433; 4473; 4493; 4520; 4538; 4559; 4572; 4585; 4602; 4626; 4649; 4681; 4706; 4733; 4755

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; 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; 1386; 1407; 1431; 1483; 1512; 1554; 1637; 1711; 1795; 1817; 1849; 1886; 1904; 1923; 1980; 1997; 2014; 2049; 2067; 2087; 2107; 2126; 2150; 2215; 2267; 2323; 2355; 2378; 2395; 2427; 2457; 2478; 2495; 2518; 2553; 2580; 2611; 2633; 2659; 2681; 2700; 2728; 2764; 2783; 2806; 2827; 2845; 2862; 2886; 2919; 2951; 2978; 3004; 3035; 3065; 3082; 3108; 3131; 3152; 3174; 3194; 3214; 3231; 3270; 3289; 3314; 3333; 3353; 3380; 3404; 3437; 3456; 3484; 3506; 3564; 3588; 3607; 3626; 3647; 3664; 3712; 3739; 3759; 3782; 3806; 3839; 3856; 3876; 3902; 3960; 3987; 4006; 4036; 4061; 4081; 4120; 4138; 4175; 4213; 4242; 4270; 4291; 4319; 4340; 4373; 4391; 4447; 4467; 4494; 4512; 4533; 4559; 4576; 4600; 4623; 4655; 4680; 4707; 4729; 4758
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	1	826
SgrBI	CCGC!GG	2	652; 768
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1949; 3736; 4529
SimI	!GACCC	5	106; 992; 3230; 3798; 4046
SinI	G!GWCC	2	3318; 3763
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	365; 856; 1225; 3239
SmlI	C!TYRAG	7	613; 619; 1684; 3193; 4075; 4352; 4614
SmoI	C!TYRAG	7	613; 619; 1684; 3193; 4075; 4352; 4614
SmuI	CCCGCNNNN!	9	93; 119; 286; 1003; 2124; 2479; 2500; 3696; 3828
SmuI	!NNNNNNGCGGG	6	644; 2055; 2925; 3462; 3600; 3747
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	936; 2372; 2444; 3207
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	14	18; 629; 984; 1101; 1388; 1552; 1616; 1694; 1720; 1731; 2378; 2450; 2542; 3960
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2623
SsiI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 649; 765; 996; 1320; 1365; 1449; 2117; 2120; 2134; 2224; 2472; 2484; 2493; 2505; 2515; 2526; 2572; 2711; 2774; 3276; 3321; 3387; 3413; 3538; 3541; 3689; 3821; 4128; 4272; 4768
SsiI	G!CGG	28	370; 403; 528; 651; 686; 767; 1244; 1247; 2062; 2089; 2177; 2287; 2868; 2932; 3033; 3036; 3316; 3371; 3469; 3607; 3754; 3894; 4137; 4382; 4503; 4522; 4649; 4677
SspI	AAT!ATT	2	1710; 2263
SspDI	G!GCGCC	3	688; 877; 2801
SspD5I	GGTGANNNNNNN!	5	376; 870; 1017; 3873; 3989
SspD5I	!NNNNNNNNTCACC	6	956; 1097; 1175; 1308; 1918; 2979
SstI	GAGCT!C	1	620
SstII	CCGC!GG	2	652; 768
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 663; 845; 911; 944; 1002; 1259; 1271; 2001; 2123; 2478; 2499; 2812; 3215; 3354; 3425; 3695; 3827; 4057; 4495
Sth132I	!NNNNNNNNCNGGG	19	15; 407; 470; 643; 2002; 2054; 2155; 2882; 2924; 2957; 3461; 3570; 3599; 3746; 3850; 3881; 4334; 4378; 4586
Sth302II	CC!GG	21	602; 658; 668; 828; 1188; 2021; 2708; 2785; 2807; 2835; 2966; 3056; 3123; 3304; 3579; 3587; 3679; 4153; 4343; 4369; 4516
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNN!	8	758; 818; 1082; 1319; 2670; 3127; 3152; 3606
StsI	!NNNNNNNNNNNNNNNCATCC	2	747; 2474
StuI	AGG!CCT	1	2623

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StyI	C!CWWGG	5	360; 2531; 2624; 3234; 3639
StyD4I	!CCNGG	20	88; 281; 655; 656; 844; 854; 1052; 2336; 2391; 2408; 2804; 2964; 3187; 3577; 3766; 3869; 4341; 4559; 4572; 4693
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 645; 1347; 1893; 3182; 3298; 3406; 3729; 4220; 4690; 4761
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 722; 950; 1079; 1262; 1292; 1865; 1877; 1920; 2030; 2921; 3108; 3889; 4022
TaqI	T!CGA	16	614; 627; 640; 971; 1013; 1951; 2642; 2915; 3071; 3095; 3131; 3293; 3484; 3529; 3784; 4622
TaqII	GACCGANNNNNNNNNNN!	4	1327; 1822; 2839; 3507
TaqII	!NNNNNNNNNTCGGTC	1	3751
TaqII	CACCCANNNNNNNNNNN!	1	1237
TaqII	!NNNNNNNNNTGGGTG	3	172; 2706; 3298
TasI	!AATT	14	18; 629; 984; 1101; 1388; 1552; 1616; 1694; 1720; 1731; 2378; 2450; 2542; 3960
TatI	W!GTACW	6	217; 297; 330; 381; 1028; 1121
TauI	GCSG!C	21	689; 770; 1247; 1250; 1367; 1451; 2122; 2136; 2574; 2713; 2776; 2871; 3036; 3039; 3278; 3374; 3415; 3543; 3897; 4525; 4680
TfiI	G!AWTC	6	1089; 3287; 3421; 3531; 3568; 4746
TliI	C!TCGAG	1	613
TruII	T!TAA	16	7; 1387; 1503; 1564; 1685; 1706; 1717; 1729; 1740; 1757; 1855; 2126; 3945; 3959; 3964; 4016
Tru9I	T!TAA	16	7; 1387; 1503; 1564; 1685; 1706; 1717; 1729; 1740; 1757; 1855; 2126; 3945; 3959; 3964; 4016
TscAI	CASTGNN!	7	889; 1120; 1648; 2931; 4041; 4312; 4325
TseI	G!CWGC	17	683; 929; 1022; 1190; 1578; 2097; 2762; 2863; 2905; 2946; 3039; 3426; 3879; 4105; 4311; 4314; 4379
TsoI	TARCCANNNNNNNNNNN!	2	1774; 2121
TsoI	!NNNNNNNNNTGGYTA	3	932; 1579; 3331
Tsp45I	!GTSAC	6	858; 1005; 1308; 2091; 2922; 3228
Tsp509I	!AATT	14	18; 629; 984; 1101; 1388; 1552; 1616; 1694; 1720; 1731; 2378; 2450; 2542; 3960
TspDTI	ATGAANNNNNNNNNNN!	4	1243; 1560; 2861; 3565
TspDTI	!NNNNNNNNNTTCAT	6	26; 804; 1194; 3279; 3735; 3942
TspEI	!AATT	14	18; 629; 984; 1101; 1388; 1552; 1616; 1694; 1720; 1731; 2378; 2450; 2542; 3960
TspGWI	ACGGANNNNNNNNNNN!	1	3677
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	7	889; 1120; 1648; 2931; 4041; 4312; 4325
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2920
Tth111II	CAARCANNNNNNNNNNN!	1	4129
Tth111II	!NNNNNNNNNTGYTTG	3	3237; 4097; 4136
UnbI	!GGNCC	11	82; 275; 653; 900; 1248; 1908; 3317; 3762; 3808; 3866; 3899
Van91I	CCANNNN!NTGG	1	1080
Vha464I	C!TTAAG	1	1684
VneI	G!TGCAC	2	1255; 4406
VpaK11AI	!GGWCC	2	3317; 3762
VpaK11BI	G!GWCC	2	3318; 3763
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	629; 1616; 1720; 1731
XbaI	T!CTAGA	1	1456
XceI	RCATG!Y	5	936; 2372; 2444; 3207; 4724
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	13	585; 609; 660; 710; 1169; 1417; 2973; 3219; 3611; 3970; 3982; 4068; 4079
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	2624; 3639

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	1	916
XspI	C!TAG	8	592; 1457; 1651; 2069; 2625; 3640; 3974; 4227
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2374; 2446; 4777