

pCop-Green-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	1539; 1744
AarI	CACCTGCNNNN!	1	1109
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1827; 2783; 4572
AatI	AGG!CCT	1	2577
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	640
AccII	CG!CG	19	60; 651; 1004; 1160; 1265; 1405; 1680; 2056; 2076; 2100; 2131; 2822; 3123; 3561; 3645; 3708; 3777; 4050; 4631
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2858
Acc36I	ACCTGCNNNN!	4	836; 1109; 3024; 3474
Acc36I	!NNNNNNNNGCAGGT	1	2643
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	10	465; 645; 712; 757; 805; 868; 1030; 1909; 2755; 2790
AccB7I	CCANNNN!NTGG	1	843
AccBSI	CCG!CTC	2	2180; 3369
AccBSI	GAG!CGG	2	2016; 3423
AceIII	CAGCTCNNNNNNN!	1	1712
AceIII	!NNNNNNNNNNGAGCTG	4	552; 724; 1261; 1279
AciI	C!CGC	44	58; 86; 98; 112; 279; 507; 589; 649; 683; 702; 774; 936; 987; 1002; 1077; 1143; 1260; 1263; 1370; 1403; 2071; 2074; 2088; 2178; 2426; 2438; 2447; 2459; 2469; 2480; 2526; 2665; 2728; 3230; 3275; 3341; 3367; 3492; 3495; 3643; 3775; 4082; 4226; 4722
AciI	G!CGG	30	370; 403; 528; 651; 746; 749; 881; 920; 959; 1166; 2016; 2043; 2131; 2241; 2822; 2886; 2987; 2990; 3270; 3325; 3423; 3561; 3708; 3848; 4091; 4336; 4457; 4476; 4603; 4631
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	668; 1404; 2624; 2935; 3181; 3573; 3932; 4030; 4116
AclWI	!NNNNGATCC	7	580; 655; 1340; 3000; 3544; 3931; 4028
AcoI	Y!GGCCR	6	999; 1400; 2662; 2836; 3227; 3254
AcsI	R!AATY	4	629; 1570; 1674; 1685
AcuI	CTGAAGNNNNNNNNNNNNNNN!	2	2902; 3334
AcuI	!NNNNNNNNNNNNNNCTTCAG	4	801; 963; 1134; 4132
AcvI	CAC!GTG	2	840; 972
AcyI	GR!CGYC	8	122; 175; 258; 444; 806; 2756; 3458; 3537
AdeI	CACNNN!GTG	1	1872
AfaI	GT!AC	10	219; 244; 299; 332; 383; 540; 647; 949; 1309; 3062
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	20	49; 768; 843; 993; 1266; 1768; 2094; 2486; 2737; 3281; 3562; 3594; 3726; 3761; 3811; 3843; 4196; 4475; 4641; 4659
AfiII	C!TTAAG	1	1638
AfiIII	A!CRYGT	1	4674
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	8	1020; 1206; 1323; 2167; 2211; 2221; 2634; 4210
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
Ajni	!CCWGG	12	88; 281; 1355; 2290; 2345; 2362; 3141; 3720; 3823; 4513; 4526; 4647
AjuI	GAANNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNTTC	0	
AjuI	CCAANNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	0	
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2330; 2402
AlfI	!NNNNNNNNNNNGCANNNNNNNTGC	2	2296; 2368
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1838
AloI	!NNNNNNNNGGANNNNNNNGTTC	0	
AloI	GGANNNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1806
AluI	AG!CT	21	566; 618; 624; 738; 977; 983; 1136; 1178; 1275; 1293; 1535; 1702; 1959; 2254; 2542; 2862; 3320; 4117; 4374; 4420; 4510
AluBI	AG!CT	21	566; 618; 624; 738; 977; 983; 1136; 1178; 1275; 1293; 1535; 1702; 1959; 2254; 2542; 2862; 3320; 4117; 4374; 4420; 4510
AlwI	GGATCNNNN!	9	668; 1404; 2624; 2935; 3181; 3573; 3932; 4030; 4116
AlwI	!NNNNNGATCC	7	580; 655; 1340; 3000; 3544; 3931; 4028
Alw21I	GWGCW!C	6	620; 799; 1100; 2869; 3059; 4364
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	4	2180; 2598; 3617; 3745
Alw44I	G!TGCAC	1	4360
AlwNI	CAGNN!CTG	2	3857; 4265
Ama87I	C!YCGRG	4	613; 656; 763; 1042
Aor13HI	T!CCGGA	0	
Aor51HI	AG!GCT	1	596
ApaI	GGGCC!C	2	657; 1246
ApaBI	GCANNNNN!TGC	3	2324; 2396; 3858
ApaLI	G!TGCAC	1	4360
ApeKI	G!CWGC	17	966; 1079; 1133; 1275; 1532; 2051; 2716; 2817; 2859; 2900; 2993; 3380; 3833; 4059; 4265; 4268; 4333
ApoI	R!AATTY	4	629; 1570; 1674; 1685
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3271
ApyPI	!NNNNNNNNNNNNNNNNNNNNGTCGAT	3	3065; 3718; 4556
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	2	1413; 3155
AquII	!NNNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	1295; 2584
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	2	1020; 3326
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 610; 661; 693; 1008; 1056; 1071; 1332; 1346; 1397; 1414; 2594; 2598; 2617; 2928; 3006; 3087; 3096; 3174; 3550; 3566; 3925; 3937; 4015; 4023; 4034; 4109
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2874
Asp700I	GAANN!NNTTC	1	895
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	2578; 3593
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	24	597; 808; 1160; 1213; 2022; 2030; 2056; 2078; 2087; 2100; 2131; 2750; 2758; 2822; 2859; 3125; 3385; 3561; 3647; 4050; 4159; 4333; 4433; 4500
AspS9I	G!GNCC	12	83; 276; 654; 771; 1243; 1390; 1863; 3272; 3717; 3763; 3821; 3854
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 3438
AsuC2I	CC!SGG	7	657; 658; 1394; 2760; 2920; 3533; 4297
AsuHPI	GGTGANNNNNNNNN!	3	376; 3827; 3943
AsuHPI	!NNNNNNNTCACC	4	699; 1053; 1873; 2934
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	613; 656; 763; 1042
AvaII	G!GWCC	3	1390; 3272; 3717
AviII	TGC!GCA	1	2858
AvrII	C!CTAGG	2	2578; 3593

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AxyI	CC!TNAGG	2	2236; 3868
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI:C	7	657; 760; 1033; 1246; 2702; 2795; 4364
BalI	TGG!CCA	1	2838
BamHI	G!GATCC	1	660
BanI	G!GYRCC	10	465; 645; 712; 757; 805; 868; 1030; 1909; 2755; 2790
BanII	GRGCY!C	7	620; 657; 1246; 1356; 1947; 3121; 3831
BanIII	AT!CGAT	1	2596
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	843
BauI	C!ACGAG	2	3474; 4501
BauI	C!TCGTG	1	3348
BbeI	GGCGC!C	2	809; 2759
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	2	840; 972
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2326; 2398; 3161
BbvI	GCAGCNNNNNNN!	8	1091; 1145; 1544; 2829; 2871; 3392; 3845; 4345
BbvI	!NNNNNNNNNNNGCTGC	8	953; 1262; 2038; 2703; 2887; 2980; 4046; 4252
Bbv12I	GWGCW!C	6	620; 799; 1100; 2869; 3059; 4364
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	916; 1222; 1886; 2450; 2976; 3478
BccI	!NNNNNGATGG	5	837; 1372; 1854; 2634; 3062
BceAI	ACGGCNNNNNNNNNN!	7	738; 867; 933; 972; 1179; 3182; 3669
BceAI	!NNNNNNNNNNNGCCGT	4	1357; 1897; 2715; 4174
BceFI	ACGGCNNNNNNNNNN!	7	738; 867; 933; 972; 1179; 3182; 3669
BceFI	!NNNNNNNNNNNGCCGT	4	1358; 1898; 2716; 4175
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	2185; 2975; 4476
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	7	657; 658; 1394; 2760; 2920; 3533; 4297
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	4609
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	1	4575
BfaI	C!TAG	8	592; 1411; 1605; 2023; 2579; 3594; 3928; 4181
BfiI	ACTGGGNNNNN!	1	2705
BfiI	!NNNNCCCAGT	2	289; 2457
BfmI	C!TRYAG	6	634; 1173; 1231; 2091; 4218; 4409
BfoI	RGCGC!Y	7	598; 809; 1214; 2023; 2031; 2759; 4434
BfrI	C!TTAAG	1	1638
BfuI	GTATCCNNNNN!	3	2185; 2975; 4476
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	836; 1109; 3024; 3474
BfuAI	!NNNNNNNNNGCAGGT	1	2643
BfuCI	!GATC	27	585; 609; 660; 692; 1007; 1055; 1070; 1331; 1345; 1396; 1413; 2593; 2597; 2616; 2927; 3005; 3086; 3095; 3173; 3549; 3565; 3924; 3936; 4014; 4022; 4033; 4108
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2531
BglII	A!GATCT	1	609

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BisI	GC!NGC	42	702; 747; 774; 882; 921; 960; 967; 1002; 1080; 1134; 1167; 1263; 1276; 1403; 1533; 2052; 2074; 2088; 2526; 2665; 2717; 2728; 2818; 2823; 2860; 2901; 2988; 2991; 2994; 3230; 3326; 3367; 3381; 3495; 3834; 3849; 4060; 4266; 4269; 4334; 4477; 4632
BlnI	C!CTAGG	2	2578; 3593
BlpI	GC!TNAGC	1	832
BlsI	GCN!GC	42	703; 748; 775; 883; 922; 961; 968; 1003; 1081; 1135; 1168; 1264; 1277; 1404; 1534; 2053; 2075; 2089; 2527; 2666; 2718; 2729; 2819; 2824; 2861; 2902; 2989; 2992; 2995; 3231; 3327; 3368; 3382; 3496; 3835; 3850; 4061; 4267; 4270; 4335; 4478; 4633
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	1390; 3272; 3717
Bme1390I	CC!NGG	19	90; 283; 657; 658; 1357; 1394; 2292; 2347; 2364; 2760; 2920; 3143; 3533; 3722; 3825; 4297; 4515; 4528; 4649
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	613; 656; 763; 1042
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	12	84; 277; 655; 772; 1244; 1391; 1864; 3273; 3718; 3764; 3822; 3855
BmiI	GGN!NCC	23	467; 647; 655; 662; 714; 759; 807; 870; 1032; 1244; 1911; 1932; 1944; 2135; 2296; 2368; 2757; 2792; 3640; 3719; 3764; 4607; 4646
BmrI	ACTGGGNNNNN!	1	2705
BmrI	!NNNNCCCACT	2	289; 2457
BmrFI	CC!NGG	19	90; 283; 657; 658; 1357; 1394; 2292; 2347; 2364; 2760; 2920; 3143; 3533; 3722; 3825; 4297; 4515; 4528; 4649
BmsI	GCATCNNNNN!	10	713; 947; 1235; 1307; 1572; 2335; 2407; 3055; 3119; 3394
BmsI	!NNNNNNNNNGATGC	5	357; 2714; 2969; 3185; 4577
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2705
BmuI	!NNNNCCCACT	2	289; 2457
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2545; 3444
BpI	!NNNNNNNNNGAGNNNNNCTC	2	2513; 3412
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3596
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3539
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 3438
Bpu1102I	GC!TNAGC	1	832
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4050; 4589
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	604; 3132; 4291
BpuMI	CC!SGG	7	657; 658; 1394; 2760; 2920; 3533; 4297
BpvUI	CGAT!CG	1	1334
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3745
Bsa29I	AT!CGAT	1	2596
BsaAI	YAC!GTR	5	340; 840; 972; 1872; 3060
BsaBI	GATNN!NNATC	2	1418; 2615
BsaHI	GR!CGYC	8	122; 175; 258; 444; 806; 2756; 3458; 3537
BsaJI	C!CNNGG	23	360; 649; 656; 800; 1043; 1091; 1109; 1355; 1373; 2290; 2362; 2485; 2520; 2529; 2578; 2919; 3188; 3593; 3720; 3721; 3823; 3824; 4514
BsaMI	GAATGCN!	1	1507
BsaMI	G!CATTC	2	1336; 1600
BsaWI	W!CCGGW	6	600; 666; 2787; 3631; 4321; 4468
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1836
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1806

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	2	956; 1310
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	1757; 3664
Bsc4I	CCNNNNN!NNGG	20	49; 768; 843; 993; 1266; 1768; 2094; 2486; 2737; 3281; 3562; 3594; 3726; 3761; 3811; 3843; 4196; 4475; 4641; 4659
BscAI	GCATCNNNN!	10	712; 946; 1234; 1306; 1571; 2334; 2406; 3054; 3118; 3393
BscAI	!NNNNNNGATGC	5	360; 2717; 2972; 3188; 4580
Bse1I	ACTGGN!	3	2700; 2901; 4147
Bse1I	C!CAGT	5	295; 1785; 2463; 4259; 4272
Bse8I	GATNN!NNATC	2	1418; 2615
Bse21I	CC!TNAGG	2	2236; 3868
Bse118I	R!CCGGY	8	666; 709; 997; 1033; 1973; 3075; 3256; 3539
BseAI	T!CCGGA	0	
BseBI	CC!WGG	12	90; 283; 1357; 2292; 2347; 2364; 3143; 3722; 3825; 4515; 4528; 4649
BseCI	AT!CGAT	1	2596
BseDI	C!CNNGG	23	360; 649; 656; 800; 1043; 1091; 1109; 1355; 1373; 2290; 2362; 2485; 2520; 2529; 2578; 2919; 3188; 3593; 3720; 3721; 3823; 3824; 4514
Bse3DI	GCAATGNN!	1	2989
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	1383; 2616; 3073; 3098; 3552
BseGI	!CATCC	4	1073; 1214; 1226; 2442
BseJI	GATNN!NNATC	2	1418; 2615
BseLI	CCNNNNN!NNGG	20	49; 768; 843; 993; 1266; 1768; 2094; 2486; 2737; 3281; 3562; 3594; 3726; 3761; 3811; 3843; 4196; 4475; 4641; 4659
BseMI	GCAATGNN!	1	2989
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	620; 3882
BseMII	!NNNNNNNNCTGAG	6	823; 2227; 2529; 3410; 3982; 4391
BseNI	ACTGGN!	3	2700; 2901; 4147
BseNI	C!CAGT	5	295; 1785; 2463; 4259; 4272
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1285; 2574
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!	7	657; 760; 1033; 1246; 2702; 2795; 4364
BseXI	GCAGCNNNNNNNN!	8	1091; 1145; 1544; 2829; 2871; 3392; 3845; 4345
BseXI	!NNNNNNNNNNNGTCTG	8	953; 1262; 2038; 2703; 2887; 2980; 4046; 4252
BseX3I	C!GGCCG	3	999; 1400; 2662
BseYI	C!CCAGC	5	877; 1222; 2299; 2371; 4370
BseYI	G!CTGGG	2	1293; 3260
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNNCTGCAC	4	886; 952; 1087; 1261
Bsh1236I	CG!CG	19	60; 651; 1004; 1160; 1265; 1405; 1680; 2056; 2076; 2100; 2131; 2822; 3123; 3561; 3645; 3708; 3777; 4050; 4631
Bsh1285I	CGRY!CG	6	671; 1002; 1334; 1403; 2665; 4340
BshFI	GG!CC	26	84; 277; 655; 773; 997; 1001; 1244; 1360; 1402; 1722; 1864; 2519; 2525; 2534; 2577; 2664; 2838; 3229; 3256; 3765; 3822; 3855; 4200; 4634; 4652; 4663
BshNI	G!GYRCC	10	465; 645; 712; 757; 805; 868; 1030; 1909; 2755; 2790
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	2596
BsiEI	CGRY!CG	6	671; 1002; 1334; 1403; 2665; 4340
BsiHKAI	GWGCW!C	6	620; 799; 1100; 2869; 3059; 4364
BsiHKCI	C!YCGRG	4	613; 656; 763; 1042
BsiSI	C!CGG	24	601; 657; 667; 710; 998; 1034; 1388; 1393; 1974; 2661; 2738; 2760; 2788; 2919; 3009; 3076; 3257; 3532; 3540; 3632; 4106; 4296; 4322; 4469
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	20	49; 768; 843; 993; 1266; 1768; 2094; 2486; 2737; 3281; 3562; 3594; 3726; 3761; 3811; 3843; 4196; 4475; 4641; 4659
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2907; 3439; 3548
BsIFI	!NNNNNNNNNNNNNNNGTCCC	4	2272; 2344; 2408; 3703
BsmI	GAATGCN!	1	1507
BsmI	G!CATTC	2	1336; 1600
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	4	2180; 2598; 3617; 3745

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BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2907; 3439; 3548
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2272; 2344; 2408; 3703
BsnI	GG!CC	26	84; 277; 655; 773; 997; 1001; 1244; 1360; 1402; 1722; 1864; 2519; 2525; 2534; 2577; 2664; 2838; 3229; 3256; 3765; 3822; 3855; 4200; 4634; 4652; 4663
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACG	1	3745
BsoBI	C!YCGRG	4	613; 656; 763; 1042
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 1109; 2485; 3188
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3559
Bsp24I	!NNNNNNCCANNNNNGTC	2	3980; 4158
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4012; 4190
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3527
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 3438
Bsp120I	G!GGCCC	2	653; 1242
Bsp143I	!GATC	27	585; 609; 660; 692; 1007; 1055; 1070; 1331; 1345; 1396; 1413; 2593; 2597; 2616; 2927; 3005; 3086; 3095; 3173; 3549; 3565; 3924; 3936; 4014; 4022; 4033; 4108
Bsp1286I	GDGCH!C	16	620; 657; 760; 799; 1033; 1100; 1246; 1356; 1947; 2702; 2795; 2869; 3059; 3121; 3831; 4364
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	1	832
BspACI	C!CGC	44	58; 86; 98; 112; 279; 507; 589; 649; 683; 702; 774; 936; 987; 1002; 1077; 1143; 1260; 1263; 1370; 1403; 2071; 2074; 2088; 2178; 2426; 2438; 2447; 2459; 2469; 2480; 2526; 2665; 2728; 3230; 3275; 3341; 3367; 3492; 3495; 3643; 3775; 4082; 4226; 4722
BspACI	G!CGG	30	370; 403; 528; 651; 746; 749; 881; 920; 959; 1166; 2016; 2043; 2131; 2241; 2822; 2886; 2987; 2990; 3270; 3325; 3423; 3561; 3708; 3848; 4091; 4336; 4457; 4476; 4603; 4631
BspCNI	CTCAGNNNNNNNN!	2	619; 3881
BspCNI	!NNNNNNCTGAG	6	824; 2228; 2530; 3411; 3983; 4392
BspDI	AT!CGAT	1	2596
BspD6I	GACTCNNNN!	6	418; 612; 1415; 1829; 3435; 4312
BspD6I	!NNNNNGAGTC	2	1792; 2224
BspEI	T!CCGGA	0	
BspFNI	CG!CG	19	60; 651; 1004; 1160; 1265; 1405; 1680; 2056; 2076; 2100; 2131; 2822; 3123; 3561; 3645; 3708; 3777; 4050; 4631
BspHI	T!CATGA	2	2182; 3954
BspLI	GGN!NCC	23	467; 647; 655; 662; 714; 759; 807; 870; 1032; 1244; 1911; 1932; 1944; 2135; 2296; 2368; 2757; 2792; 3640; 3719; 3764; 4607; 4646
BspMI	ACCTGCNNNN!	4	836; 1109; 3024; 3474
BspMI	!NNNNNNNGCAGGT	1	2643
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	668; 1404; 2624; 2935; 3181; 3573; 3932; 4030; 4116
BspPI	!NNNNNGATCC	7	580; 655; 1340; 3000; 3544; 3931; 4028
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	787; 3100; 3310
BspTI	C!TTAAG	1	1638
BspT104I	TT!CGAA	2	627; 3438
BspT107I	G!GYRCC	10	465; 645; 712; 757; 805; 868; 1030; 1909; 2755; 2790
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACG	1	3745
BsrI	ACTGGN!	3	2700; 2901; 4147
BsrI	C!CAGT	5	295; 1785; 2463; 4259; 4272
BsrBI	CCG!CTC	2	2180; 3369
BsrBI	GAG!CGG	2	2016; 3423
BsrDI	GCAATGNN!	1	2989
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	8	666; 709; 997; 1033; 1973; 3075; 3256; 3539
BsrGI	T!GTACA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	ACTGGN!	3	2700; 2901; 4147
BsrSI	C!CAGT	5	295; 1785; 2463; 4259; 4272
BssAI	R!CCGGY	8	666; 709; 997; 1033; 1973; 3075; 3256; 3539
BssECI	C!CNNGG	23	360; 649; 656; 800; 1043; 1091; 1109; 1355; 1373; 2290; 2362; 2485; 2520; 2529; 2578; 2919; 3188; 3593; 3720; 3721; 3823; 3824; 4514
BssHII	G!CGCGC	0	
BssKI	!CCNGG	19	88; 281; 655; 656; 1355; 1392; 2290; 2345; 2362; 2758; 2918; 3141; 3531; 3720; 3823; 4295; 4513; 4526; 4647
BssMI	!GATC	27	585; 609; 660; 692; 1007; 1055; 1070; 1331; 1345; 1396; 1413; 2593; 2597; 2616; 2927; 3005; 3086; 3095; 3173; 3549; 3565; 3924; 3936; 4014; 4022; 4033; 4108
BssNI	GR!CGYC	8	122; 175; 258; 444; 806; 2756; 3458; 3537
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3474; 4501
BssSI	C!TCGTG	1	3348
BssTII	C!CWWGG	7	360; 800; 1109; 2485; 2578; 3188; 3593
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	787; 2223; 3100; 3310
Bst98I	C!TTAAG	1	1638
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 806; 2756; 3458; 3537
BstAFI	C!TTAAG	1	1638
BstAPI	GCANNNN!NTGC	3	2323; 2395; 3857
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	2	627; 3438
Bst2BI	C!ACGAG	2	3474; 4501
Bst2BI	C!TCGTG	1	3348
BstBAI	YAC!GTR	5	340; 840; 972; 1872; 3060
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 645; 1092; 1847; 3136; 3252; 3360; 3683; 4174; 4644; 4715
BstC8I	GCN!NGC	36	86; 279; 593; 653; 683; 905; 964; 999; 1143; 1156; 1316; 1362; 1975; 2018; 2032; 2305; 2324; 2377; 2396; 2650; 2836; 3055; 3121; 3127; 3159; 3200; 3204; 3258; 3541; 3728; 3775; 3831; 3853; 4064; 4624; 4661
BstDEI	C!TNAG	8	606; 832; 2236; 2538; 3419; 3868; 3991; 4400
BstDSI	C!CRYGG	7	360; 649; 1091; 1109; 1373; 2485; 3188
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	5	1383; 2616; 3073; 3098; 3552
BstF5I	!CATCC	4	1073; 1214; 1226; 2442
BstFNI	CG!CG	19	60; 651; 1004; 1160; 1265; 1405; 1680; 2056; 2076; 2100; 2131; 2822; 3123; 3561; 3645; 3708; 3777; 4050; 4631
BstH2I	RGCGC!Y	7	598; 809; 1214; 2023; 2031; 2759; 4434
BstHHI	GCG!C	24	597; 808; 1160; 1213; 2022; 2030; 2056; 2078; 2087; 2100; 2131; 2750; 2758; 2822; 2859; 3125; 3385; 3561; 3647; 4050; 4159; 4333; 4433; 4500
BstKTI	GAT!C	27	588; 612; 663; 695; 1010; 1058; 1073; 1334; 1348; 1399; 1416; 2596; 2600; 2619; 2930; 3008; 3089; 3098; 3176; 3552; 3568; 3927; 3939; 4017; 4025; 4036; 4111
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	4	2180; 2598; 3617; 3745
BstMBI	!GATC	27	585; 609; 660; 692; 1007; 1055; 1070; 1331; 1345; 1396; 1413; 2593; 2597; 2616; 2927; 3005; 3086; 3095; 3173; 3549; 3565; 3924; 3936; 4014; 4022; 4033; 4108
BstMCI	CGRY!CG	6	671; 1002; 1334; 1403; 2665; 4340
BstMWI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 710; 755; 803; 1010; 1142; 1166; 1983; 2013; 2040; 2082; 2323; 2395; 2446; 2525; 2747; 2831; 2854; 2993; 3116; 3199; 3466; 3653; 3857; 4056; 4628
BstNI	CC!WGG	12	90; 283; 1357; 2292; 2347; 2364; 3143; 3722; 3825; 4515; 4528; 4649
BstNSI	RCATG!Y	5	1200; 2326; 2398; 3161; 4678
BstOI	CC!WGG	12	90; 283; 1357; 2292; 2347; 2364; 3143; 3722; 3825; 4515; 4528; 4649
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSCI	!CCNGG	19	88; 281; 655; 656; 1355; 1392; 2290; 2345; 2362; 2758; 2918; 3141; 3531; 3720; 3823; 4295; 4513; 4526; 4647
BstSFI	C!TRYAG	6	634; 1173; 1231; 2091; 4218; 4409
BstSLI	GKGCMI!C	7	657; 760; 1033; 1246; 2702; 2795; 4364
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 651; 1004; 1160; 1265; 1405; 1680; 2056; 2076; 2100; 2131; 2822; 3123; 3561; 3645; 3708; 3777; 4050; 4631
Bst2UI	CC!WGG	12	90; 283; 1357; 2292; 2347; 2364; 3143; 3722; 3825; 4515; 4528; 4649
BstV1I	GCAGCNNNNNNNN!	8	1091; 1145; 1544; 2829; 2871; 3392; 3845; 4345
BstV1I	!NNNNNNNNNNNGCTGC	8	953; 1262; 2038; 2703; 2887; 2980; 4046; 4252
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	11	585; 609; 660; 1345; 2927; 3173; 3565; 3924; 3936; 4022; 4033
BstYI	R!GATCY	11	585; 609; 660; 1345; 2927; 3173; 3565; 3924; 3936; 4022; 4033
BstZI	C!GGCCG	3	999; 1400; 2662
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2185; 2975; 4476
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2596
Bsu36I	CC!TNAGG	2	2236; 3868
BsuRI	GG!CC	26	84; 277; 655; 773; 997; 1001; 1244; 1360; 1402; 1722; 1864; 2519; 2525; 2534; 2577; 2664; 2838; 3229; 3256; 3765; 3822; 3855; 4200; 4634; 4652; 4663
BsuTUI	AT!CGAT	1	2596
BtgI	C!CRYGG	7	360; 649; 1091; 1109; 1373; 2485; 3188
BtgZI	GCGATGNNNNNNNNNN!	2	1873; 3208
BtgZI	!NNNNNNNNNNNNNNNNCATCGC	3	334; 3027; 3371
BthCI	GCNG!C	42	704; 749; 776; 884; 923; 962; 969; 1004; 1082; 1136; 1169; 1265; 1278; 1405; 1535; 2054; 2076; 2090; 2528; 2667; 2719; 2730; 2820; 2825; 2862; 2903; 2990; 2993; 2996; 3232; 3328; 3369; 3383; 3497; 3836; 3851; 4062; 4268; 4271; 4336; 4479; 4634
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1595
BtsCI	GGATGNN!	5	1383; 2616; 3073; 3098; 3552
BtsCI	!CATCC	4	1073; 1214; 1226; 2442
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	836; 1109; 3024; 3474
BveI	!NNNNNNNNNGCAGGT	1	2643
Cac8I	GCN!NGC	36	86; 279; 593; 653; 683; 905; 964; 999; 1143; 1156; 1316; 1362; 1975; 2018; 2032; 2305; 2324; 2377; 2396; 2650; 2836; 3055; 3121; 3127; 3159; 3200; 3204; 3258; 3541; 3728; 3775; 3831; 3853; 4064; 4624; 4661
CaiI	CAGNNN!CTG	2	3857; 4265
CciI	T!CATGA	2	2182; 3954
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 942; 1302; 3045; 3050; 3248; 3389
CdiI	C!GATG	2	1859; 3194
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	2	774; 4628
CdpI	!NNNNNNNNNNNNNNNNNNNCTCCGC	4	486; 1349; 2417; 2459
CelII	GC!TNAGC	1	832
CfoI	GCG!C	24	597; 808; 1160; 1213; 2022; 2030; 2056; 2078; 2087; 2100; 2131; 2750; 2758; 2822; 2859; 3125; 3385; 3561; 3647; 4050; 4159; 4333; 4433; 4500
CfrI	Y!GGCCR	6	999; 1400; 2662; 2836; 3227; 3254
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	8	666; 709; 997; 1033; 1973; 3075; 3256; 3539
Cfr13I	G!GNCC	12	83; 276; 654; 771; 1243; 1390; 1863; 3272; 3717; 3763; 3821; 3854
Cfr42I	CCG!GG	1	652
ChaI	GATC!	27	589; 613; 664; 696; 1011; 1059; 1074; 1335; 1349; 1400; 1417; 2597; 2601; 2620; 2931; 3009; 3090; 3099; 3177; 3553; 3569; 3928; 3940; 4018; 4026; 4037; 4112

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	2573; 4013; 4113; 4191
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2240; 2335; 3527; 4077; 4632
CjeI	ACNNNNNTGGNNNNNNNNNNNNNNNN!	7	98; 291; 2274; 2369; 3561; 4111; 4666
CjeI	!NNNNNNNNCCANNNNNNGT	4	2539; 3979; 4079; 4157
CjePI	CCANNNNNNTCANNNNNNNNNNNNNN!	2	4013; 4191
CjePI	!NNNNNNNNNGANNNNNNNTGG	3	257; 3527; 4126
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 3560; 4159
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	3980; 4158
Clai	AT!CGAT	1	2596
CpoI	CG!GWCCG	2	1390; 3272
CseI	GACGCNNNNN!	3	526; 3466; 3545
CseI	!NNNNNNNNNNGCGTC	3	2089; 3984; 4562
CsiI	A!CCWGGT	1	2345
CspI	CG!GWCCG	2	1390; 3272
Csp6I	G!TAC	10	218; 243; 298; 331; 382; 539; 646; 948; 1308; 3061
Csp45I	TT!CGAA	2	627; 3438
CspAI	A!CCGGT	1	666
CspCI	CAANNNNNGTGGNNNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	2	2036; 3645
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	21	301; 361; 678; 687; 777; 1110; 1197; 1248; 2183; 2323; 2395; 2486; 2627; 2972; 3158; 3189; 3215; 3571; 3955; 4675; 4726
CviJI	RG!CY	99	42; 84; 93; 277; 566; 618; 624; 655; 738; 773; 821; 836; 848; 854; 884; 923; 977; 983; 997; 1001; 1037; 1136; 1154; 1169; 1178; 1193; 1244; 1275; 1293; 1354; 1360; 1387; 1402; 1425; 1535; 1702; 1722; 1864; 1945; 1959; 1973; 2254; 2295; 2367; 2490; 2519; 2525; 2534; 2542; 2565; 2577; 2583; 2664; 2681; 2689; 2716; 2741; 2825; 2834; 2838; 2862; 2900; 2976; 2993; 3012; 3075; 3119; 3129; 3146; 3229; 3256; 3260; 3297; 3320; 3336; 3516; 3543; 3604; 3726; 3765; 3822; 3829; 3836; 3855; 3866; 4117; 4146; 4189; 4200; 4265; 4344; 4369; 4374; 4420; 4510; 4608; 4634; 4652; 4663
CviKI-1	RG!CY	99	42; 84; 93; 277; 566; 618; 624; 655; 738; 773; 821; 836; 848; 854; 884; 923; 977; 983; 997; 1001; 1037; 1136; 1154; 1169; 1178; 1193; 1244; 1275; 1293; 1354; 1360; 1387; 1402; 1425; 1535; 1702; 1722; 1864; 1945; 1959; 1973; 2254; 2295; 2367; 2490; 2519; 2525; 2534; 2542; 2565; 2577; 2583; 2664; 2681; 2689; 2716; 2741; 2825; 2834; 2838; 2862; 2900; 2976; 2993; 3012; 3075; 3119; 3129; 3146; 3229; 3256; 3260; 3297; 3320; 3336; 3516; 3543; 3604; 3726; 3765; 3822; 3829; 3836; 3855; 3866; 4117; 4146; 4189; 4200; 4265; 4344; 4369; 4374; 4420; 4510; 4608; 4634; 4652; 4663
CviQI	G!TAC	10	218; 243; 298; 331; 382; 539; 646; 948; 1308; 3061
DdeI	C!TNAG	8	606; 832; 2236; 2538; 3419; 3868; 3991; 4400
DinI	GGC!GCC	2	807; 2757
DpnI	GA!TC	27	587; 611; 662; 694; 1009; 1057; 1072; 1333; 1347; 1398; 1415; 2595; 2599; 2618; 2929; 3007; 3088; 3097; 3175; 3551; 3567; 3926; 3938; 4016; 4024; 4035; 4110
DpnII	!GATC	27	585; 609; 660; 692; 1007; 1055; 1070; 1331; 1345; 1396; 1413; 2593; 2597; 2616; 2927; 3005; 3086; 3095; 3173; 3549; 3565; 3924; 3936; 4014; 4022; 4033; 4108
DraI	TTT!AAA	3	1458; 3900; 3919
DraII	RG!GNCCY	2	1242; 3854
DraIII	CACNN!GTG	1	1872
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	2	266; 4236
DraRI	!NNNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1827; 2783; 4572
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1827; 2783; 4572
EaeI	Y!GGCCR	6	999; 1400; 2662; 2836; 3227; 3254
EagI	C!GGCCG	3	999; 1400; 2662
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	787; 2223; 3100; 3310

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	4	787; 2223; 3100; 3310
EciI	GGCGGANNNNNNNNNN!	5	764; 2256; 3285; 4472; 4618
EciI	!NNNNNNNNNTCCGCC	6	496; 1249; 1359; 2427; 2448; 2469
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	3	999; 1400; 2662
Eco24I	GRGCY!C	7	620; 657; 1246; 1356; 1947; 3121; 3831
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	1	3745
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	1390; 3272; 3717
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	3	999; 1400; 2662
Eco57I	CTGAAGNNNNNNNNNNNN!	2	2902; 3334
Eco57I	!NNNNNNNNNNNNNCTTCAG	4	801; 963; 1134; 4132
Eco72I	CAC!GTG	2	840; 972
Eco81I	CC!TNAGG	2	2236; 3868
Eco88I	C!YCGRG	4	613; 656; 763; 1042
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	7	360; 800; 1109; 2485; 2578; 3188; 3593
Eco147I	AGG!CCT	1	2577
EcoHI	!CCSGG	7	655; 656; 1392; 2758; 2918; 3531; 4295
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNN!	3	2902; 3334; 3596
Eco57MI	!NNNNNNNNNNNNNCTYCAG	5	801; 963; 1134; 3539; 4132
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	1242; 3854
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	12	88; 281; 1355; 2290; 2345; 2362; 3141; 3720; 3823; 4513; 4526; 4647
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	7	360; 800; 1109; 2485; 2578; 3188; 3593
EcoT22I	ATGCA!T	3	2328; 2400; 4731
EcoT38I	GRGCY!C	7	620; 657; 1246; 1356; 1947; 3121; 3831
Eco53kl	GAG!CTC	1	618
EgeI	GGC!GCC	2	807; 2757
EheI	GGC!GCC	2	807; 2757
ErhI	C!CWWGG	7	360; 800; 1109; 2485; 2578; 3188; 3593
EsaBC3I	TC!GA	17	615; 628; 641; 696; 735; 942; 1906; 2597; 2870; 3026; 3050; 3086; 3248; 3439; 3484; 3739; 4577
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNGAGACG	0	
FaeI	CATG!	21	304; 364; 681; 690; 780; 1113; 1200; 1251; 2186; 2326; 2398; 2489; 2630; 2975; 3161; 3192; 3218; 3574; 3958; 4678; 4729
FaiI	YA!TR	57	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 688; 778; 1111; 1198; 1249; 1418; 1428; 1494; 1539; 1744; 2172; 2184; 2315; 2324; 2387; 2396; 2420; 2487; 2511; 2628; 2692; 2973; 2998; 3159; 3190; 3216; 3288; 3504; 3572; 3650; 3702; 3863; 3880; 3882; 3884; 3956; 4234; 4423; 4539; 4612; 4676; 4727
FaII	AAGNNNNNCTNNNNNNNNNN!	1	3096
FaII	!NNNNNNNNAAGNNNNNCTT	1	3064
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2907; 3439; 3548
FaqI	!NNNNNNNNNNNNNGTCCC	4	2272; 2344; 2408; 3703
FatI	!CATG	21	300; 360; 677; 686; 776; 1109; 1196; 1247; 2182; 2322; 2394; 2485; 2626; 2971; 3157; 3188; 3214; 3570; 3954; 4674; 4725
FauI	CCCGCNNNN!	11	93; 119; 286; 690; 943; 1150; 2078; 2433; 2454; 3650; 3782
FauI	!NNNNNGCGGG	6	644; 2009; 2879; 3416; 3554; 3701
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FbII	GT!MKAC	1	640
FmuI	GGNC!C	12	86; 279; 657; 774; 1246; 1393; 1866; 3275; 3720; 3766; 3824; 3857

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	42	702; 747; 774; 882; 921; 960; 967; 1002; 1080; 1134; 1167; 1263; 1276; 1403; 1533; 2052; 2074; 2088; 2526; 2665; 2717; 2728; 2818; 2823; 2860; 2901; 2988; 2991; 2994; 3230; 3326; 3367; 3381; 3495; 3834; 3849; 4060; 4266; 4269; 4334; 4477; 4632
FokI	GGATGNNNNNNNNN!	5	1390; 2623; 3080; 3105; 3559
FokI	!NNNNNNNNNNNNNNCATCC	3	1060; 1201; 2429
FriOI	GRGCY!C	7	620; 657; 1246; 1356; 1947; 3121; 3831
FseI	GGCCGG!CC	1	1001
FspI	TGC!GCA	1	2858
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1411; 1605; 2023; 2579; 3594; 3928; 4181
FspEI	CCNNNNNNNNNNNN!	161	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 695; 715; 729; 774; 795; 813; 828; 850; 874; 889; 907; 921; 942; 1000; 1015; 1047; 1077; 1101; 1120; 1155; 1207; 1227; 1243; 1258; 1273; 1302; 1324; 1341; 1356; 1374; 1401; 1416; 1439; 1478; 1492; 1633; 1728; 1752; 1775; 1798; 1816; 1838; 1859; 1878; 1897; 1926; 1947; 1961; 1987; 2075; 2101; 2150; 2191; 2209; 2248; 2264; 2302; 2359; 2374; 2431; 2451; 2465; 2482; 2496; 2533; 2548; 2591; 2674; 2741; 2772; 2792; 2807; 2852; 2866; 2932; 2946; 2965; 2981; 3022; 3042; 3089; 3139; 3155; 3175; 3200; 3220; 3243; 3270; 3288; 3314; 3354; 3380; 3404; 3460; 3474; 3502; 3545; 3566; 3601; 3645; 3733; 3757; 3779; 3799; 3815; 3836; 3850; 3869; 3953; 3973; 4001; 4016; 4050; 4092; 4119; 4134; 4179; 4203; 4217; 4239; 4265; 4285; 4309; 4335; 4383; 4402; 4421; 4447; 4482; 4527; 4557; 4571; 4622; 4636; 4661; 4677; 4698; 4727
FspEI	!NNNNNNNNNNNNNNNGG	128	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 695; 724; 754; 787; 829; 851; 902; 937; 979; 1006; 1030; 1078; 1096; 1114; 1148; 1168; 1223; 1252; 1279; 1342; 1360; 1378; 1427; 1527; 1596; 1626; 1704; 1753; 1775; 1803; 1839; 1884; 1913; 1949; 1968; 1996; 2016; 2079; 2102; 2210; 2242; 2260; 2289; 2332; 2361; 2472; 2501; 2544; 2565; 2593; 2626; 2646; 2671; 2698; 2723; 2745; 2773; 2799; 2820; 2871; 2892; 2910; 2958; 2994; 3050; 3075; 3099; 3128; 3151; 3175; 3201; 3223; 3242; 3267; 3307; 3343; 3408; 3493; 3517; 3546; 3580; 3601; 3621; 3666; 3693; 3712; 3745; 3797; 3828; 3855; 3907; 4005; 4076; 4121; 4182; 4247; 4281; 4307; 4325; 4361; 4431; 4454; 4476; 4500; 4533; 4581; 4616; 4634; 4691
Fsp4HI	GC!NGC	42	702; 747; 774; 882; 921; 960; 967; 1002; 1080; 1134; 1167; 1263; 1276; 1403; 1533; 2052; 2074; 2088; 2526; 2665; 2717; 2728; 2818; 2823; 2860; 2901; 2988; 2991; 2994; 3230; 3326; 3367; 3381; 3495; 3834; 3849; 4060; 4266; 4269; 4334; 4477; 4632
GdiII	C!GGCCR	3	999; 1400; 2662
GdiII	Y!GGCCG	5	999; 1400; 2662; 3227; 3254
GlaI	GC!GC	24	596; 807; 1159; 1212; 2021; 2029; 2055; 2077; 2086; 2099; 2130; 2749; 2757; 2821; 2858; 3124; 3384; 3560; 3646; 4049; 4158; 4332; 4432; 4499
GluI	GC!NGC	42	702; 747; 774; 882; 921; 960; 967; 1002; 1080; 1134; 1167; 1263; 1276; 1403; 1533; 2052; 2074; 2088; 2526; 2665; 2717; 2728; 2818; 2823; 2860; 2901; 2988; 2991; 2994; 3230; 3326; 3367; 3381; 3495; 3834; 3849; 4060; 4266; 4269; 4334; 4477; 4632
GsaI	CCCAG!C	5	881; 1226; 2303; 2375; 4374
GsaI	GCTGG!G	2	1297; 3264
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3596
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3539
HaeI	WGG!CCW	6	1360; 2577; 2838; 4200; 4652; 4663
HaeII	RGCG!Y	7	598; 809; 1214; 2023; 2031; 2759; 4434
HaeIII	GG!CC	26	84; 277; 655; 773; 997; 1001; 1244; 1360; 1402; 1722; 1864; 2519; 2525; 2534; 2577; 2664; 2838; 3229; 3256; 3765; 3822; 3855; 4200; 4634; 4652; 4663
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1431; 2952
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1397; 2918
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1430; 2951
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1399; 2920

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HapII	C!CGG	24	601; 657; 667; 710; 998; 1034; 1388; 1393; 1974; 2661; 2738; 2760; 2788; 2919; 3009; 3076; 3257; 3532; 3540; 3632; 4106; 4296; 4322; 4469
HgaI	GACGCNNNNN!	3	526; 3466; 3545
HgaI	!NNNNNNNNNNGCGTC	3	2089; 3984; 4562
HhaI	GCG!C	24	597; 808; 1160; 1213; 2022; 2030; 2056; 2078; 2087; 2100; 2131; 2750; 2758; 2822; 2859; 3125; 3385; 3561; 3647; 4050; 4159; 4333; 4433; 4500
Hin1I	GR!CGYC	8	122; 175; 258; 444; 806; 2756; 3458; 3537
Hin1III	CATG!	21	304; 364; 681; 690; 780; 1113; 1200; 1251; 2186; 2326; 2398; 2489; 2630; 2975; 3161; 3192; 3218; 3574; 3958; 4678; 4729
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1430; 2951
Hin4I	!NNNNNNNNGABNNNNNRTC	3	1398; 2919; 2949
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1430; 2951; 2981
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	1398; 2919
Hin6I	G!CGC	24	595; 806; 1158; 1211; 2020; 2028; 2054; 2076; 2085; 2098; 2129; 2748; 2756; 2820; 2857; 3123; 3383; 3559; 3645; 4048; 4157; 4331; 4431; 4498
HinP1I	G!CGC	24	595; 806; 1158; 1211; 2020; 2028; 2054; 2076; 2085; 2098; 2129; 2748; 2756; 2820; 2857; 3123; 3383; 3559; 3645; 4048; 4157; 4331; 4431; 4498
HincII	GTY!RAC	2	641; 1519
HindII	GTY!RAC	2	641; 1519
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	13	410; 604; 1407; 1799; 1821; 2231; 3241; 3375; 3427; 3485; 3522; 4304; 4700
HpaI	GTT!AAC	1	1519
HpaII	C!CGG	24	601; 657; 667; 710; 998; 1034; 1388; 1393; 1974; 2661; 2738; 2760; 2788; 2919; 3009; 3076; 3257; 3532; 3540; 3632; 4106; 4296; 4322; 4469
HphI	GGTGANNNNNNN!	3	376; 3827; 3943
HphI	!NNNNNNNTCACC	4	699; 1053; 1873; 2934
Hpy8I	GTN!NAC	10	201; 539; 577; 641; 1188; 1519; 1803; 1820; 1875; 4362
Hpy99I	CGWCG!	9	645; 1165; 2846; 2874; 3168; 3183; 3460; 3845; 4578
Hpy166II	GTN!NAC	10	201; 539; 577; 641; 1188; 1519; 1803; 1820; 1875; 4362
Hpy188I	TCN!GA	12	585; 609; 1930; 2539; 2723; 3067; 3420; 3521; 4000; 4134; 4487; 4565
Hpy188III	TC!NNGA	25	613; 942; 1206; 1323; 1349; 1411; 2183; 2235; 2548; 2601; 2774; 3090; 3099; 3182; 3238; 3282; 3372; 3405; 3474; 3955; 4029; 4112; 4210; 4308; 4442
HpyAV	CCTTCNNNNNN!	8	825; 906; 1158; 1266; 1329; 3401; 3508; 4187
HpyAV	!NNNNNGAAGG	7	1989; 2884; 3613; 3629; 3812; 4129; 4439
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 645; 1092; 1847; 3136; 3252; 3360; 3683; 4174; 4644; 4715
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 839; 971; 1121; 1816; 1828; 1871; 1981; 2872; 3059; 3840; 3973
HpyCH4V	TG!CA	23	636; 903; 969; 1104; 1200; 1233; 1278; 1505; 1532; 1600; 2317; 2326; 2389; 2398; 2513; 2589; 2648; 2807; 2982; 2996; 4066; 4362; 4729
HpyF3I	C!TNAG	8	606; 832; 2236; 2538; 3419; 3868; 3991; 4400
HpyF10VI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 710; 755; 803; 1010; 1142; 1166; 1983; 2013; 2040; 2082; 2323; 2395; 2446; 2525; 2747; 2831; 2854; 2993; 3116; 3199; 3466; 3653; 3857; 4056; 4628
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 806; 2756; 3458; 3537
Hsp92II	CATG!	21	304; 364; 681; 690; 780; 1113; 1200; 1251; 2186; 2326; 2398; 2489; 2630; 2975; 3161; 3192; 3218; 3574; 3958; 4678; 4729
HspAI	G!CGC	24	595; 806; 1158; 1211; 2020; 2028; 2054; 2076; 2085; 2098; 2129; 2748; 2756; 2820; 2857; 3123; 3383; 3559; 3645; 4048; 4157; 4331; 4431; 4498
KasI	G!GCGCC	2	805; 2755
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	649
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	652
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1519

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kzo9I	!GATC	27	585; 609; 660; 692; 1007; 1055; 1070; 1331; 1345; 1396; 1413; 2593; 2597; 2616; 2927; 3005; 3086; 3095; 3173; 3549; 3565; 3924; 3936; 4014; 4022; 4033; 4108
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	787; 3100; 3310
LpnI	RGCI!GCY	7	596; 807; 1212; 2021; 2029; 2757; 4432
LpnPI	CCDGNNNNNNNNNN!	62	102; 295; 614; 670; 723; 823; 841; 891; 913; 1011; 1047; 1114; 1168; 1236; 1324; 1356; 1374; 1401; 1493; 1798; 1987; 2210; 2248; 2264; 2304; 2359; 2376; 2476; 2561; 2674; 2751; 2773; 2796; 2932; 2946; 2965; 3022; 3089; 3139; 3155; 3212; 3270; 3479; 3545; 3569; 3645; 3734; 3837; 3870; 4101; 4119; 4265; 4285; 4309; 4335; 4384; 4482; 4527; 4557; 4636; 4661; 4698
LpnPI	!NNNNNNNNNNNNNNCHGG	55	75; 268; 552; 586; 642; 695; 724; 754; 983; 1019; 1111; 1279; 1342; 1373; 1839; 1959; 2016; 2079; 2277; 2289; 2349; 2361; 2593; 2638; 2681; 2723; 2745; 2773; 2820; 2882; 2904; 2994; 3061; 3084; 3128; 3223; 3242; 3267; 3416; 3517; 3560; 3617; 3707; 3810; 3837; 3855; 4091; 4128; 4281; 4307; 4447; 4465; 4500; 4581; 4634
Lsp1109I	GCAGCNNNNNNNN!	8	1091; 1145; 1544; 2829; 2871; 3392; 3845; 4345
Lsp1109I	!NNNNNNNNNNNNNGCTGC	8	953; 1262; 2038; 2703; 2887; 2980; 4046; 4252
LweI	GCATCNNNNN!	10	713; 947; 1235; 1307; 1572; 2335; 2407; 3055; 3119; 3394
LweI	!NNNNNNNNNGATGC	5	357; 2714; 2969; 3185; 4577
MabI	A!CCWGGT	1	2345
MaeI	C!TAG	8	592; 1411; 1605; 2023; 2579; 3594; 3928; 4181
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 839; 971; 1121; 1816; 1828; 1871; 1981; 2872; 3059; 3840; 3973
MaeIII	!GTNAC	12	61; 148; 497; 1544; 2045; 2057; 2876; 3182; 3872; 4138; 4254; 4317
MalI	GA!TC	27	587; 611; 662; 694; 1009; 1057; 1072; 1333; 1347; 1398; 1415; 2595; 2599; 2618; 2929; 3007; 3088; 3097; 3175; 3551; 3567; 3926; 3938; 4016; 4024; 4035; 4110
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2180; 3369
MbiI	GAG!CGG	2	2016; 3423
MboI	!GATC	27	585; 609; 660; 692; 1007; 1055; 1070; 1331; 1345; 1396; 1413; 2593; 2597; 2616; 2927; 3005; 3086; 3095; 3173; 3549; 3565; 3924; 3936; 4014; 4022; 4033; 4108
MboII	GAAGANNNNNNNN!	7	702; 804; 2012; 2240; 3117; 3327; 3946
MboII	!NNNNNNNTCTTC	5	1050; 3407; 3574; 3774; 4017
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1506
MflI	R!GATCY	11	585; 609; 660; 1345; 2927; 3173; 3565; 3924; 3936; 4022; 4033
MhII	GDGCH!C	16	620; 657; 760; 799; 1033; 1100; 1246; 1356; 1947; 2702; 2795; 2869; 3059; 3121; 3831; 4364
MisI	TGG!CCA	1	2838
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2838
MlyI	GAGTCNNNNN!	2	1808; 2240
MlyI	!NNNNNGACTC	6	404; 598; 1401; 1815; 3421; 4298
Mly113I	GG!CGCC	2	806; 2756
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1849
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	4281; 4465
MnlI	CCTCNNNNNNN!	7	1475; 2539; 3357; 3563; 3877; 4247; 4571
MnlI	!NNNNNGAGG	18	541; 747; 945; 987; 1038; 1263; 1435; 1900; 2231; 2509; 2552; 2567; 2607; 2671; 2807; 3164; 3594; 4497
Mph1103I	ATGCA!T	3	2328; 2400; 4731
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	997; 1973; 3256; 3539
MroXI	GAANN!NNTTC	1	895
MscI	TGG!CCA	1	2838
MseI	T!TAA	15	7; 1457; 1518; 1639; 1660; 1671; 1683; 1694; 1711; 1809; 2080; 3899; 3913; 3918; 3970
MslI	CAYNN!NNRTG	2	365; 3193

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspI	C!CGG	24	601; 657; 667; 710; 998; 1034; 1388; 1393; 1974; 2661; 2738; 2760; 2788; 2919; 3009; 3076; 3257; 3532; 3540; 3632; 4106; 4296; 4322; 4469
Msp20I	TGG!CCA	1	2838
MspA1I	CMG!CKG	6	651; 881; 2254; 2862; 4091; 4336
MspCI	C!TTAAG	1	1638
MspJI	CNNRNNNNNNNNNN!	240	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 613; 627; 640; 662; 679; 694; 708; 722; 738; 751; 775; 789; 812; 836; 850; 884; 900; 916; 941; 954; 975; 1005; 1032; 1046; 1065; 1080; 1104; 1120; 1134; 1154; 1167; 1194; 1207; 1234; 1251; 1276; 1291; 1306; 1323; 1341; 1355; 1368; 1386; 1400; 1416; 1429; 1444; 1463; 1480; 1493; 1534; 1548; 1561; 1579; 1617; 1632; 1650; 1691; 1715; 1735; 1753; 1774; 1797; 1829; 1844; 1866; 1884; 1897; 1918; 1935; 1948; 1961; 1977; 1990; 2020; 2035; 2060; 2078; 2091; 2106; 2130; 2144; 2168; 2193; 2209; 2247; 2263; 2302; 2316; 2330; 2358; 2374; 2388; 2402; 2431; 2444; 2465; 2474; 2496; 2526; 2542; 2560; 2590; 2613; 2637; 2661; 2680; 2708; 2734; 2750; 2763; 2786; 2800; 2820; 2833; 2847; 2866; 2880; 2893; 2909; 2924; 2937; 2953; 2968; 2984; 3009; 3028; 3044; 3057; 3070; 3088; 3102; 3116; 3132; 3154; 3170; 3189; 3211; 3227; 3250; 3269; 3283; 3299; 3313; 3333; 3349; 3362; 3384; 3417; 3431; 3451; 3464; 3478; 3532; 3545; 3568; 3581; 3600; 3617; 3644; 3680; 3713; 3732; 3757; 3778; 3805; 3818; 3835; 3849; 3864; 3880; 3940; 3965; 3981; 4003; 4016; 4030; 4061; 4075; 4100; 4118; 4133; 4146; 4165; 4178; 4193; 4222; 4241; 4259; 4284; 4299; 4318; 4334; 4353; 4371; 4387; 4401; 4420; 4447; 4470; 4492; 4511; 4526; 4539; 4556; 4576; 4603; 4616; 4635; 4660; 4683; 4697; 4710; 4727
MspJI	!NNNNNNNNNNNNNYNG	201	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; 673; 696; 719; 749; 772; 796; 814; 831; 851; 872; 890; 921; 949; 966; 984; 1006; 1028; 1054; 1078; 1096; 1116; 1137; 1166; 1183; 1209; 1234; 1252; 1276; 1297; 1315; 1335; 1355; 1374; 1397; 1422; 1466; 1508; 1591; 1626; 1653; 1676; 1705; 1749; 1771; 1803; 1839; 1856; 1877; 1914; 1934; 1951; 1968; 2003; 2021; 2039; 2056; 2080; 2102; 2129; 2157; 2183; 2221; 2242; 2259; 2277; 2300; 2321; 2349; 2372; 2393; 2411; 2432; 2449; 2472; 2496; 2516; 2534; 2556; 2587; 2609; 2635; 2654; 2671; 2699; 2718; 2737; 2755; 2773; 2794; 2816; 2840; 2873; 2893; 2911; 2932; 2958; 2985; 3002; 3019; 3036; 3062; 3084; 3106; 3124; 3144; 3163; 3185; 3223; 3243; 3267; 3287; 3307; 3334; 3358; 3391; 3410; 3438; 3460; 3489; 3517; 3542; 3561; 3580; 3601; 3618; 3635; 3666; 3693; 3713; 3736; 3756; 3793; 3810; 3829; 3855; 3875; 3914; 3941; 3960; 3978; 4015; 4033; 4074; 4092; 4118; 4135; 4167; 4196; 4224; 4245; 4268; 4287; 4308; 4326; 4343; 4361; 4387; 4408; 4428; 4448; 4466; 4487; 4513; 4530; 4549; 4568; 4597; 4616; 4634; 4653; 4671; 4689; 4712
MspR9I	CC!NGG	19	90; 283; 657; 658; 1357; 1394; 2292; 2347; 2364; 2760; 2920; 3143; 3533; 3722; 3825; 4297; 4515; 4528; 4649
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	1506
MvaI	CC!WGG	12	90; 283; 1357; 2292; 2347; 2364; 3143; 3722; 3825; 4515; 4528; 4649
Mva1269I	GAATGCN!	1	1507
Mva1269I	G!CATTC	2	1336; 1600
MvnI	CG!CG	19	60; 651; 1004; 1160; 1265; 1405; 1680; 2056; 2076; 2100; 2131; 2822; 3123; 3561; 3645; 3708; 3777; 4050; 4631
MvrI	CGAT!CG	1	1334
MwoI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 710; 755; 803; 1010; 1142; 1166; 1983; 2013; 2040; 2082; 2323; 2395; 2446; 2525; 2747; 2831; 2854; 2993; 3116; 3199; 3466; 3653; 3857; 4056; 4628
NaeI	GCC!GGC	4	999; 1975; 3258; 3541
NarI	GG!CGCC	2	806; 2756
NciI	CC!SGG	7	657; 658; 1394; 2760; 2920; 3533; 4297
NcoI	C!CATGG	4	360; 1109; 2485; 3188
NdeI	CA!TATG	1	234

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeII	!GATC	27	585; 609; 660; 692; 1007; 1055; 1070; 1331; 1345; 1396; 1413; 2593; 2597; 2616; 2927; 3005; 3086; 3095; 3173; 3549; 3565; 3924; 3936; 4014; 4022; 4033; 4108
NgoAVIII	GACNNNNNTGANNNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	997; 1973; 3256; 3539
NheI	G!CTAGC	1	591
NlaIII	CATG!	21	304; 364; 681; 690; 780; 1113; 1200; 1251; 2186; 2326; 2398; 2489; 2630; 2975; 3161; 3192; 3218; 3574; 3958; 4678; 4729
NlaIV	GGN!NCC	23	467; 647; 655; 662; 714; 759; 807; 870; 1032; 1244; 1911; 1932; 1944; 2135; 2296; 2368; 2757; 2792; 3640; 3719; 3764; 4607; 4646
NlaCI	CATCACNNNNNNNNNNNNNNNNNNNN!	4	729; 1588; 1903; 3495
NlaCI	!NNNNNNNNNNNNNNNNNNNGTGATG	3	347; 823; 4567
Nli3877I	CYCGR!G	4	617; 660; 767; 1046
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNNNN!	2	2545; 2981
NmeAIII	!NNNNNNNNNNNNNNNNNNNNCTCGGC	1	2510
NmeDI	RCCGGYNNNNNNNN!	8	678; 721; 1009; 1045; 1985; 3087; 3268; 3551
NmeDI	!NNNNNNNNNNNNNRCCGGY	8	653; 696; 984; 1020; 1960; 3062; 3243; 3526
NmuCI	!GTSAC	3	2045; 2876; 3182
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2858
NsiI	ATGCA!T	3	2328; 2400; 4731
NspI	RCATG!Y	5	1200; 2326; 2398; 3161; 4678
NspV	TT!CGAA	2	627; 3438
OiiI	CACNN!NNGTG	0	
PabI	GTA!C	10	220; 245; 300; 333; 384; 541; 648; 950; 1310; 3063
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2326; 2398; 3161
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	2182; 3954
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3721; 3824
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2577
PciI	A!CATGT	1	4674
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	787; 3100; 3310
PcsI	WCGNNNN!NNNCGW	7	947; 3050; 3127; 3370; 3444; 3837; 4355
PctI	GAATGCN!	1	1507
PctI	G!CATTC	2	1336; 1600
PdiI	GCC!GGC	4	999; 1975; 3258; 3541
PdmI	GAANN!NNTTC	1	895
PfeI	G!AWTC	5	3241; 3375; 3485; 3522; 4700
PflI23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2874
PfIMI	CCANNNN!NTGG	1	843
PfoI	T!CCNGGA	1	3531
PhoI	GG!CC	26	84; 277; 655; 773; 997; 1001; 1244; 1360; 1402; 1722; 1864; 2519; 2525; 2534; 2577; 2664; 2838; 3229; 3256; 3765; 3822; 3855; 4200; 4634; 4652; 4663
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	3137
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	2702; 2957
PleI	GAGTCNNNN!	2	1807; 2239
PleI	!NNNNNGACTC	6	404; 598; 1401; 1815; 3421; 4298
Ple19I	CGAT!CG	1	1334
PmaCI	CAC!GTG	2	840; 972
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	2	840; 972
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	1838
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3968
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	1	4000

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1806
Ppsi	GAGTCNNNN!	2	1807; 2239
Ppsi	!NNNNNGACTC	6	404; 598; 1401; 1815; 3421; 4298
Ppu10I	A!TGCAT	3	2324; 2396; 4727
Ppu21I	YAC!GTR	5	340; 840; 972; 1872; 3060
PpuMI	RG!GWCCY	0	
Psci	A!CATGT	1	4674
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1539; 1744
Psp03I	GGWC!C	3	1393; 3275; 3720
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	12	88; 281; 1355; 2290; 2345; 2362; 3141; 3720; 3823; 4513; 4526; 4647
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	2	840; 972
PspEI	G!GTNACC	0	
PspGI	!CCWGG	12	88; 281; 1355; 2290; 2345; 2362; 3141; 3720; 3823; 4513; 4526; 4647
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	23	467; 647; 655; 662; 714; 759; 807; 870; 1032; 1244; 1911; 1932; 1944; 2135; 2296; 2368; 2757; 2792; 3640; 3719; 3764; 4607; 4646
PspOMI	G!GGCCC	2	653; 1242
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 2486; 3485
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2888
PspPI	G!GNCC	12	83; 276; 654; 771; 1243; 1390; 1863; 3272; 3717; 3763; 3821; 3854
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	5	896; 1241; 2309; 2381; 3887
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	2222; 3417
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
Pssi	RGGNC!CY	2	1245; 3857
PstI	CTGCA!G	2	638; 1235
PstNI	CAGNN!CTG	2	3857; 4265
PsuI	R!GATCY	11	585; 609; 660; 1345; 2927; 3173; 3565; 3924; 3936; 4022; 4033
PsyI	GACN!NNGTC	1	2874
PteI	G!CGCGC	0	
PvuI	CGAT!CG	1	1334
PvuII	CAG!CTG	2	2254; 2862
RcaI	T!CATGA	2	2182; 3954
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	3271
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	1	1001
RleAI	CCCACANNNNNNNNNNNN!	1	1485
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	2	977; 1070
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	10	219; 244; 299; 332; 383; 540; 647; 949; 1309; 3062
RsaNI	G!TAC	10	218; 243; 298; 331; 382; 539; 646; 948; 1308; 3061
RseI	CAYNN!NNRTG	2	365; 3193
RsrII	CG!GWCCG	2	1390; 3272
Rsr2I	CG!GWCCG	2	1390; 3272
SacI	GAGCT!C	1	620
SacII	CCGC!GG	1	652
SalI	G!TCGAC	1	639

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	3	787; 3100; 3310
SaqAI	T!TAA	15	7; 1457; 1518; 1639; 1660; 1671; 1683; 1694; 1711; 1809; 2080; 3899; 3913; 3918; 3970
SatI	GC!NGC	42	702; 747; 774; 882; 921; 960; 967; 1002; 1080; 1134; 1167; 1263; 1276; 1403; 1533; 2052; 2074; 2088; 2526; 2665; 2717; 2728; 2818; 2823; 2860; 2901; 2988; 2991; 2994; 3230; 3326; 3367; 3381; 3495; 3834; 3849; 4060; 4266; 4269; 4334; 4477; 4632
Sau96I	G!GNCC	12	83; 276; 654; 771; 1243; 1390; 1863; 3272; 3717; 3763; 3821; 3854
Sau3AI	!GATC	27	585; 609; 660; 692; 1007; 1055; 1070; 1331; 1345; 1396; 1413; 2593; 2597; 2616; 2927; 3005; 3086; 3095; 3173; 3549; 3565; 3924; 3936; 4014; 4022; 4033; 4108
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1808; 2240
SchI	!NNNNNGACTC	6	404; 598; 1401; 1815; 3421; 4298
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	19	90; 283; 657; 658; 1357; 1394; 2292; 2347; 2364; 2760; 2920; 3143; 3533; 3722; 3825; 4297; 4515; 4528; 4649
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	4	2334; 2406; 2575; 4517
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2911; 3396
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	16	620; 657; 760; 799; 1033; 1100; 1246; 1356; 1947; 2702; 2795; 2869; 3059; 3121; 3831; 4364
SelI	!CGCG	19	58; 649; 1002; 1158; 1263; 1403; 1678; 2054; 2074; 2098; 2129; 2820; 3121; 3559; 3643; 3706; 3775; 4048; 4629
SetI	ASST!	67	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 740; 817; 830; 842; 874; 974; 979; 985; 1025; 1103; 1124; 1138; 1150; 1180; 1277; 1295; 1446; 1467; 1476; 1488; 1537; 1704; 1819; 1831; 1874; 1911; 1961; 1984; 2108; 2256; 2351; 2544; 2657; 2785; 2864; 2875; 2947; 3018; 3062; 3322; 3468; 3512; 3843; 3874; 3933; 3976; 4119; 4140; 4239; 4376; 4391; 4410; 4422; 4466; 4512; 4563
SexAI	A!CCWGGT	1	2345
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	713; 947; 1235; 1307; 1572; 2335; 2407; 3055; 3119; 3394
SfaNI	!NNNNNNNNNGATGC	5	357; 2714; 2969; 3185; 4577
SfcI	C!TRYAG	6	634; 1173; 1231; 2091; 4218; 4409
SfiI	GGCCNNNN!NGGCC	1	2531
SfoI	GGC!GCC	2	807; 2757
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	1	652
SfuI	TT!CGAA	2	627; 3438
SgeI	CNNGNNNNNNNNN!	191	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 694; 708; 722; 738; 751; 775; 789; 813; 840; 890; 912; 947; 963; 982; 1005; 1032; 1046; 1065; 1080; 1104; 1122; 1138; 1154; 1167; 1194; 1209; 1235; 1251; 1276; 1302; 1323; 1341; 1355; 1368; 1386; 1400; 1416; 1463; 1492; 1534; 1617; 1691; 1775; 1797; 1829; 1866; 1884; 1903; 1918; 1960; 1977; 1994; 2029; 2043; 2060; 2082; 2106; 2130; 2195; 2209; 2247; 2263; 2303; 2316; 2335; 2358; 2375; 2388; 2407; 2437; 2458; 2475; 2498; 2533; 2560; 2591; 2613; 2639; 2661; 2680; 2708; 2744; 2763; 2786; 2800; 2820; 2833; 2847; 2866; 2880; 2899; 2931; 2945; 2958; 2984; 3015; 3028; 3045; 3062; 3076; 3093; 3111; 3126; 3154; 3170; 3189; 3211; 3227; 3250; 3269; 3294; 3313; 3333; 3360; 3384; 3417; 3436; 3464; 3478; 3544; 3568; 3583; 3606; 3627; 3644; 3692; 3719; 3733; 3762; 3786; 3819; 3836; 3856; 3869; 3882; 3940; 3967; 3986; 4016; 4041; 4061; 4075; 4100; 4118; 4155; 4193; 4222; 4250; 4264; 4284; 4299; 4320; 4334; 4353; 4371; 4387; 4427; 4447; 4474; 4492; 4513; 4526; 4539; 4556; 4580; 4603; 4635; 4660; 4687; 4709

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	167	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 673; 696; 721; 749; 772; 796; 814; 864; 886; 921; 949; 979; 1006; 1028; 1054; 1078; 1096; 1128; 1145; 1168; 1192; 1209; 1234; 1252; 1276; 1297; 1315; 1335; 1360; 1379; 1397; 1437; 1466; 1508; 1591; 1665; 1749; 1771; 1803; 1840; 1858; 1877; 1934; 1951; 1968; 2003; 2021; 2041; 2061; 2080; 2104; 2169; 2221; 2277; 2309; 2332; 2349; 2381; 2411; 2432; 2449; 2472; 2507; 2534; 2565; 2587; 2613; 2635; 2654; 2682; 2718; 2737; 2760; 2781; 2799; 2816; 2840; 2873; 2905; 2932; 2958; 2989; 3019; 3036; 3062; 3085; 3106; 3128; 3148; 3168; 3185; 3224; 3243; 3268; 3287; 3307; 3334; 3358; 3391; 3410; 3438; 3460; 3518; 3542; 3561; 3580; 3601; 3618; 3666; 3693; 3713; 3736; 3760; 3793; 3810; 3830; 3856; 3914; 3941; 3960; 3990; 4015; 4035; 4074; 4092; 4129; 4167; 4196; 4224; 4245; 4273; 4294; 4327; 4345; 4401; 4421; 4448; 4466; 4487; 4513; 4530; 4554; 4577; 4609; 4634; 4661; 4683; 4712
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	652
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1903; 3690; 4483
SimI	!GACCC	5	106; 1325; 3184; 3752; 4000
SinI	G!GWCC	3	1390; 3272; 3717
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	2	365; 3193
SmlI	C!TYRAG	7	613; 619; 1638; 3147; 4029; 4306; 4568
SmoI	C!TYRAG	7	613; 619; 1638; 3147; 4029; 4306; 4568
SmuI	CCCGCNNNN!	11	93; 119; 286; 690; 943; 1150; 2078; 2433; 2454; 3650; 3782
SmuI	!NNNNNNNGCGGG	6	644; 2009; 2879; 3416; 3554; 3701
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2326; 2398; 3161
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 629; 1506; 1570; 1648; 1674; 1685; 2332; 2404; 2496; 3914
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2577
SsiI	C!CGC	44	58; 86; 98; 112; 279; 507; 589; 649; 683; 702; 774; 936; 987; 1002; 1077; 1143; 1260; 1263; 1370; 1403; 2071; 2074; 2088; 2178; 2426; 2438; 2447; 2459; 2469; 2480; 2526; 2665; 2728; 3230; 3275; 3341; 3367; 3492; 3495; 3643; 3775; 4082; 4226; 4722
SsiI	G!CGG	30	370; 403; 528; 651; 746; 749; 881; 920; 959; 1166; 2016; 2043; 2131; 2241; 2822; 2886; 2987; 2990; 3270; 3325; 3423; 3561; 3708; 3848; 4091; 4336; 4457; 4476; 4603; 4631
SspI	AAT!ATT	2	1664; 2217
SspDI	G!GCGCC	2	805; 2755
SspD5I	GGTGANNNNNNNN!	3	376; 3827; 3943
SspD5I	!NNNNNNNNNTCACC	4	698; 1052; 1872; 2933
SstI	GAGCT!C	1	620
SstII	CCGC!GG	1	652
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 663; 689; 770; 942; 1049; 1149; 1336; 1955; 2077; 2432; 2453; 2766; 3169; 3308; 3379; 3649; 3781; 4011; 4449
Sth132I	!NNNNNNNNNCGGG	21	15; 407; 470; 643; 1230; 1385; 1956; 2008; 2109; 2836; 2878; 2911; 3415; 3524; 3553; 3700; 3804; 3835; 4288; 4332; 4540
Sth302II	CC!GG	24	602; 658; 668; 711; 999; 1035; 1389; 1394; 1975; 2662; 2739; 2761; 2789; 2920; 3010; 3077; 3258; 3533; 3541; 3633; 4107; 4297; 4323; 4470
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	5	1391; 2624; 3081; 3106; 3560
StsI	!NNNNNNNNNNNNNNCATCC	3	1059; 1200; 2428

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StuI	AGG CCT	1	2577
StyI	C CWGG	7	360; 800; 1109; 2485; 2578; 3188; 3593
StyD4I	!CCNGG	19	88; 281; 655; 656; 1355; 1392; 2290; 2345; 2362; 2758; 2918; 3141; 3531; 3720; 3823; 4295; 4513; 4526; 4647
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 645; 1092; 1847; 3136; 3252; 3360; 3683; 4174; 4644; 4715
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 842; 974; 1124; 1819; 1831; 1874; 1984; 2875; 3062; 3843; 3976
TaqI	T!CGA	17	614; 627; 640; 695; 734; 941; 1905; 2596; 2869; 3025; 3049; 3085; 3247; 3438; 3483; 3738; 4576
TaqII	GACCGANNNNNNNNNNN!	3	1776; 2793; 3461
TaqII	!NNNNNNNNNTCGGTC	1	3705
TaqII	CACCCANNNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	3	172; 2660; 3252
TasI	!AATT	11	18; 629; 1506; 1570; 1648; 1674; 1685; 2332; 2404; 2496; 3914
TatI	W!GTACW	4	217; 297; 330; 381
TauI	GCSG!C	25	704; 749; 776; 884; 923; 962; 1004; 1169; 1265; 1405; 2076; 2090; 2528; 2667; 2730; 2825; 2990; 2993; 3232; 3328; 3369; 3497; 3851; 4479; 4634
TfiI	G!AWTC	5	3241; 3375; 3485; 3522; 4700
TliI	C!TCGAG	1	613
TruII	T!TAA	15	7; 1457; 1518; 1639; 1660; 1671; 1683; 1694; 1711; 1809; 2080; 3899; 3913; 3918; 3970
Tru9I	T!TAA	15	7; 1457; 1518; 1639; 1660; 1671; 1683; 1694; 1711; 1809; 2080; 3899; 3913; 3918; 3970
TscAI	CASTGNN!	5	1602; 2885; 3995; 4266; 4279
TseI	G!CWGC	17	966; 1079; 1133; 1275; 1532; 2051; 2716; 2817; 2859; 2900; 2993; 3380; 3833; 4059; 4265; 4268; 4333
TsoI	TARCCANNNNNNNNNNN!	2	1728; 2075
TsoI	!NNNNNNNNNTGGYTA	2	1533; 3285
Tsp45I	!GTSAC	3	2045; 2876; 3182
Tsp509I	!AATT	11	18; 629; 1506; 1570; 1648; 1674; 1685; 2332; 2404; 2496; 3914
TspDTI	ATGAANNNNNNNNNNN!	5	703; 805; 1514; 2815; 3519
TspDTI	!NNNNNNNNNTTCAT	4	26; 3233; 3689; 3896
TspEI	!AATT	11	18; 629; 1506; 1570; 1648; 1674; 1685; 2332; 2404; 2496; 3914
TspGWI	ACGGANNNNNNNNNNN!	1	3631
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	5	1602; 2885; 3995; 4266; 4279
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2874
Tth111II	CAARCANNNNNNNNNNN!	1	4083
Tth111III	!NNNNNNNNNTGYTTG	3	3191; 4051; 4090
UnbI	!GGNCC	12	82; 275; 653; 770; 1242; 1389; 1862; 3271; 3716; 3762; 3820; 3853
Van91I	CCANNNN!NTGG	1	843
Vha464I	C!TTAAG	1	1638
VneI	G!TGCAC	1	4360
VpaK11AI	!GGWCC	3	1389; 3271; 3716
VpaK11BI	G!GWCC	3	1390; 3272; 3717
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	629; 1570; 1674; 1685
XbaI	T!CTAGA	1	1410
XceI	RCATG!Y	5	1200; 2326; 2398; 3161; 4678
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	11	585; 609; 660; 1345; 2927; 3173; 3565; 3924; 3936; 4022; 4033
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	2578; 3593
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	1	895

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XspI	C!TAG	8	592; 1411; 1605; 2023; 2579; 3594; 3928; 4181
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2328; 2400; 4731