

## pPhi-Yellow-C vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1514; 1719
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1802; 2758; 4547
AatI	AGG!CCT	1	2552
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1346
AccII	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1357; 1619; 1655; 2031; 2051; 2075; 2106; 2797; 3098; 3536; 3620; 3683; 3752; 4025; 4606
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2833
Acc36I	ACCTGCNNNN!	2	2999; 3449
Acc36I	!NNNNNNNNNGCAGGT	1	2618
Acc65I	G!GTACC	1	1351
AccB1I	G!GYRCC	7	465; 622; 811; 1351; 1884; 2730; 2765
AccB7I	CCANNNN!NTGG	1	1014
AccBSI	CCG!CTC	2	2155; 3344
AccBSI	GAG!CGG	2	1991; 3398
AceIII	CAGCTCNNNNNNN!	1	1687
AceIII	!NNNNNNNNNNNGAGCTG	3	552; 829; 849
AciI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 699; 930; 1254; 1299; 1355; 2046; 2049; 2063; 2153; 2401; 2413; 2422; 2434; 2444; 2455; 2501; 2640; 2703; 3205; 3250; 3316; 3342; 3467; 3470; 3618; 3750; 4057; 4201; 4697
AciI	G!CGG	28	370; 403; 528; 620; 701; 1178; 1181; 1357; 1991; 2018; 2106; 2216; 2797; 2861; 2962; 2965; 3245; 3300; 3398; 3536; 3683; 3823; 4066; 4311; 4432; 4451; 4578; 4606
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	10	1323; 1374; 1383; 2599; 2910; 3156; 3548; 3907; 4005; 4091
AclWI	!NNNNNGATCC	7	580; 639; 1361; 2975; 3519; 3906; 4003
AcoI	Y!GGCCR	8	681; 984; 1005; 1145; 2637; 2811; 3202; 3229
AcsI	R!AATTY	4	1335; 1545; 1649; 1660
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	4	865; 1108; 2877; 3309
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	675; 4107
AcvI	CAC!GTG	3	1011; 1194; 1224
AcyI	GR!CGYC	9	122; 175; 258; 444; 623; 812; 2731; 3433; 3512
AdeI	CACNNN!GTG	1	1847
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 832; 964; 1057; 1204; 1353; 3037
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	22	49; 654; 705; 779; 936; 1014; 1177; 1743; 2069; 2461; 2712; 3256; 3537; 3569; 3701; 3736; 3786; 3818; 4171; 4450; 4616; 4634
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	2	1617; 4649
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	9	924; 996; 1035; 1101; 2142; 2186; 2196; 2609; 4185
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	15	88; 281; 778; 788; 986; 1310; 2265; 2320; 2337; 3116; 3695; 3798; 4488; 4501; 4622
AjuI	GAANNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNTTC	0	
AjuI	CCAANNNNNNTTCNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	790
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	2	2305; 2377
AlfI	!NNNNNNNNNGCANNNNNTGTC	2	2271; 2343
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	1813
AloI	!NNNNNNNGGANNNNNNGTTC	1	730
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	1	762
AloI	!NNNNNNNGAACNNNNNTCC	1	1781
AluI	AG!CT	19	566; 843; 863; 978; 1217; 1230; 1324; 1330; 1510; 1677; 1934; 2229; 2517; 2837; 3295; 4092; 4349; 4395; 4485
AluBI	AG!CT	19	566; 843; 863; 978; 1217; 1230; 1324; 1330; 1510; 1677; 1934; 2229; 2517; 2837; 3295; 4092; 4349; 4395; 4485
AlwI	GGATCNNNN!	10	1323; 1374; 1383; 2599; 2910; 3156; 3548; 3907; 4005; 4091
AlwI	!NNNNNGATCC	7	580; 639; 1361; 2975; 3519; 3906; 4003
Alw21I	GWGCW!C	6	787; 1193; 1326; 2844; 3034; 4339
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1270; 2155; 2573; 3592; 3720
Alw44I	G!TGCAC	2	1189; 4335
AlwNI	CAGNNN!CTG	2	3832; 4240
Ama87I	C!YCGRG	4	838; 1198; 1319; 1362
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	1363
ApaBI	GCANNNNN!TGC	3	2299; 2371; 3833
ApaLI	G!TGCAC	2	1189; 4335
ApeKI	G!CWGC	17	617; 863; 956; 1124; 1507; 2026; 2691; 2792; 2834; 2875; 2968; 3355; 3808; 4034; 4240; 4243; 4308
ApoI	R!AATTY	4	1335; 1545; 1649; 1660
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3246
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3040; 3693; 4531
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3130
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	812
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2559
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	3301
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 645; 1069; 1104; 1116; 1150; 1249; 1316; 1367; 1376; 1389; 2569; 2573; 2592; 2903; 2981; 3062; 3071; 3149; 3525; 3541; 3900; 3912; 3990; 3998; 4009; 4084
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2849
Asp700I	GAANN!NNTTC	1	850
Asp718I	G!GTACC	1	1351
AspA2I	C!CTAGG	2	2553; 3568
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	28	597; 625; 814; 893; 934; 1096; 1286; 1288; 1997; 2005; 2031; 2053; 2062; 2075; 2106; 2725; 2733; 2797; 2834; 3100; 3360; 3536; 3622; 4025; 4134; 4308; 4408; 4475
AspS9I	G!GNCC	11	83; 276; 835; 1183; 1360; 1838; 3247; 3692; 3738; 3796; 3829
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	1333; 3413
AsuC2I	CC!SGG	6	1363; 1364; 2735; 2895; 3508; 4272
AsuHPI	GGTGANNNNNNNN!	5	376; 804; 951; 3802; 3918
AsuHPI	!NNNNNNNTCACC	5	891; 1032; 1243; 1848; 2909
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	838; 1198; 1319; 1362
AvaII	G!GWCC	2	3247; 3692
AviII	TGC!GCA	1	2833
AvrII	C!CTAGG	2	2553; 3568

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AxyI	CC!TNAGG	2	2211; 3843
BaeI	ACNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI:C	8	773; 779; 1193; 1199; 1363; 2677; 2770; 4339
BalI	TGG!CCA	4	683; 986; 1007; 2813
BamHI	G!GATCC	1	1366
BanI	G!GYRCC	7	465; 622; 811; 1351; 1884; 2730; 2765
BanII	GRGCY!C	5	1326; 1363; 1922; 3096; 3806
BanIII	AT!CGAT	1	2571
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	870
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	838
BasI	CCANNNN!NTGG	1	1014
BauI	C!ACGAG	3	1111; 3449; 4476
BauI	C!TCGTG	1	3323
BbeI	GGCGC!C	3	626; 815; 2734
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	3	1011; 1194; 1224
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	4	870; 2301; 2373; 3136
BbvI	GCAGCNNNNNN!	9	629; 968; 1136; 1519; 2804; 2846; 3367; 3820; 4320
BbvI	!NNNNNNNNNNNGCTGC	7	850; 2013; 2678; 2862; 2955; 4021; 4227
Bbv12I	GWGCW!C	6	787; 1193; 1326; 2844; 3034; 4339
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	904; 1180; 1861; 2425; 2951; 3453
BccI	!NNNNNGATGG	8	657; 673; 868; 907; 997; 1829; 2609; 3037
BceAI	ACGGCNNNNNNNNNN!	7	654; 729; 825; 849; 1098; 3157; 3644
BceAI	!NNNNNNNNNNNGCCGT	4	1273; 1872; 2690; 4149
BceFI	ACGGCNNNNNNNNNN!	7	654; 729; 825; 849; 1098; 3157; 3644
BceFI	!NNNNNNNNNNNGCCGT	4	1274; 1873; 2691; 4150
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2160; 2950; 4451
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1388
BcnI	CC!SGG	6	1363; 1364; 2735; 2895; 3508; 4272
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	1411; 4584
BdaI	!NNNNNNNNNNTGANNNNNNTCA	2	1377; 4550
BfaI	C!TAG	8	592; 1379; 1580; 1998; 2554; 3569; 3903; 4156
BfiI	ACTGGGNNNN!	1	2680
BfiI	!NNNNCCCAGT	4	289; 738; 810; 2432
BfmI	C!TRYAG	4	1340; 2066; 4193; 4384
BfoI	RGCGC!Y	8	598; 626; 815; 1097; 1998; 2006; 2734; 4409
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2160; 2950; 4451
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	2999; 3449
BfuAI	!NNNNNNNGCAGGT	1	2618
BfuCI	!GATC	27	585; 644; 1068; 1103; 1115; 1149; 1248; 1315; 1366; 1375; 1388; 2568; 2572; 2591; 2902; 2980; 3061; 3070; 3148; 3524; 3540; 3899; 3911; 3989; 3997; 4008; 4083
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2506
BglII	A!GATCT	1	1103

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BisI	GC!NGC	35	618; 621; 864; 957; 1125; 1179; 1182; 1299; 1508; 2027; 2049; 2063; 2501; 2640; 2692; 2703; 2793; 2798; 2835; 2876; 2963; 2969; 3205; 3301; 3342; 3356; 3470; 3809; 3824; 4035; 4241; 4244; 4309; 4452; 4607
BlnI	C!CTAGG	2	2553; 3568
BlpI	GC!TNAGC	1	1231
BlsI	GCN!GC	35	619; 622; 865; 958; 1126; 1180; 1183; 1300; 1509; 2028; 2050; 2064; 2502; 2641; 2693; 2704; 2794; 2799; 2836; 2877; 2964; 2970; 3206; 3302; 3343; 3357; 3471; 3810; 3825; 4036; 4242; 4245; 4310; 4453; 4608
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	3247; 3692
Bme1390I	CC!NGG	21	90; 283; 780; 790; 988; 1312; 1363; 1364; 2267; 2322; 2339; 2735; 2895; 3118; 3508; 3697; 3800; 4272; 4490; 4503; 4624
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	838; 1198; 1319; 1362
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	84; 277; 836; 1184; 1361; 1839; 3248; 3693; 3739; 3797; 3830
BmiI	GGN!NCC	21	467; 624; 813; 837; 1185; 1353; 1361; 1368; 1886; 1907; 1919; 2110; 2271; 2343; 2732; 2767; 3615; 3694; 3739; 4582; 4621
BmrI	ACTGGGNNNNN!	1	2680
BmrI	!NNNNCCCAGT	4	289; 738; 810; 2432
BmrFI	CC!NGG	21	90; 283; 780; 790; 988; 1312; 1363; 1364; 2267; 2322; 2339; 2735; 2895; 3118; 3508; 3697; 3800; 4272; 4490; 4503; 4624
BmsI	GCATCNNNNN!	7	704; 1547; 2310; 2382; 3030; 3094; 3369
BmsI	!NNNNNNNNNGATGC	7	357; 708; 729; 2689; 2944; 3160; 4552
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2680
BmuI	!NNNNCCCAGT	4	289; 738; 810; 2432
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2520; 3419
BpI	!NNNNNNNNGAGNNNNNCTC	2	2488; 3387
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	801; 1048; 3571
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3514
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1333; 3413
Bpu1102I	GC!TNAGC	1	1231
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4025; 4564
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	1310; 3107; 4266
BpuMI	CC!SGG	6	1363; 1364; 2735; 2895; 3508; 4272
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1270; 3720
Bsa29I	AT!CGAT	1	2571
BsaAI	YAC!GTR	8	340; 654; 882; 1011; 1194; 1224; 1847; 3035
BsaBI	GATNN!NNATC	2	1393; 2590
BsaHI	GR!CGYC	9	122; 175; 258; 444; 623; 812; 2731; 3433; 3512
BsaJI	C!CNNGG	23	360; 636; 699; 778; 788; 935; 987; 1289; 1311; 1355; 1362; 2265; 2337; 2460; 2495; 2504; 2553; 2894; 3163; 3568; 3696; 3799; 4489
BsaMI	GAATGCN!	1	1482
BsaMI	G!CATTC	1	1575
BsaWI	W!CCGGW	6	600; 1372; 2762; 3606; 4296; 4443
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1811
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1781
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	2	1732; 3639

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Bsc4I	CCNNNNN!NNGG	22	49; 654; 705; 779; 936; 1014; 1177; 1743; 2069; 2461; 2712; 3256; 3537; 3569; 3701; 3736; 3786; 3818; 4171; 4450; 4616; 4634
BscAI	GCATCNNNN!	7	703; 1546; 2309; 2381; 3029; 3093; 3368
BscAI	!NNNNNNGATGC	7	360; 711; 732; 2692; 2947; 3163; 4555
BseI	ACTGGN!	3	2675; 2876; 4122
BseI	C!CAGT	7	295; 744; 816; 1760; 2438; 4234; 4247
Bse8I	GATNN!NNATC	2	1393; 2590
Bse21I	CC!TNAGG	2	2211; 3843
Bse118I	R!CCGGY	7	600; 760; 1120; 1948; 3050; 3231; 3514
BseAI	T!CCGGA	0	
BseBI	CC!WGG	15	90; 283; 780; 790; 988; 1312; 2267; 2322; 2339; 3118; 3697; 3800; 4490; 4503; 4624
BseCI	AT!CGAT	1	2571
BseDI	C!CNNGG	23	360; 636; 699; 778; 788; 935; 987; 1289; 1311; 1355; 1362; 2265; 2337; 2460; 2495; 2504; 2553; 2894; 3163; 3568; 3696; 3799; 4489
Bse3DI	GCAATGNN!	1	2964
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	8	684; 744; 1008; 1245; 2591; 3048; 3073; 3527
BseGI	!CATCC	2	695; 2417
BseJI	GATNN!NNATC	2	1393; 2590
BseLI	CCNNNNN!NNGG	22	49; 654; 705; 779; 936; 1014; 1177; 1743; 2069; 2461; 2712; 3256; 3537; 3569; 3701; 3736; 3786; 3818; 4171; 4450; 4616; 4634
BseMI	GCAATGNN!	1	2964
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	3857
BseMII	!NNNNNNNNCTGAG	6	1222; 2202; 2504; 3385; 3957; 4366
BseNI	ACTGGN!	3	2675; 2876; 4122
BseNI	C!CAGT	7	295; 744; 816; 1760; 2438; 4234; 4247
BsePI	G!CGCGC	1	1284
BseRI	GAGGAGNNNNNNNNNN!	1	2549
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	8	773; 779; 1193; 1199; 1363; 2677; 2770; 4339
BseXI	GCAGC!NNNNNNNN!	9	629; 968; 1136; 1519; 2804; 2846; 3367; 3820; 4320
BseXI	!NNNNNNNNNNNGCTGC	7	850; 2013; 2678; 2862; 2955; 4021; 4227
BseX3I	C!GGCCG	1	2637
BseYI	C!CCAGC	3	2274; 2346; 4345
BseYI	G!CTGGG	2	1014; 3235
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	904
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	738
Bsh1236I	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1357; 1619; 1655; 2031; 2051; 2075; 2106; 2797; 3098; 3536; 3620; 3683; 3752; 4025; 4606
Bsh1285I	CGRY!CG	3	605; 2640; 4315
BshFI	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1361; 1697; 1839; 2494; 2500; 2509; 2552; 2639; 2813; 3204; 3231; 3740; 3797; 3830; 4175; 4609; 4627; 4638
BshNI	G!GYRCC	7	465; 622; 811; 1351; 1884; 2730; 2765
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	2571
BsiEI	CGRY!CG	3	605; 2640; 4315
BsiHKAI	GWGCW!C	6	787; 1193; 1326; 2844; 3034; 4339
BsiHKCI	C!YCGRG	4	838; 1198; 1319; 1362
BsiSI	C!CGG	21	601; 761; 1121; 1363; 1373; 1949; 2636; 2713; 2735; 2763; 2894; 2984; 3051; 3232; 3507; 3515; 3607; 4081; 4271; 4297; 4444
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	22	49; 654; 705; 779; 936; 1014; 1177; 1743; 2069; 2461; 2712; 3256; 3537; 3569; 3701; 3736; 3786; 3818; 4171; 4450; 4616; 4634
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2882; 3414; 3523
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2247; 2319; 2383; 3678
BsmI	GAATGCN!	1	1482
BsmI	G!CATTC	1	1575
BsmAI	GTCTCN!	1	434

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BsmAI	!NNNNNGAGAC	5	1270; 2155; 2573; 3592; 3720
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2882; 3414; 3523
BsmFI	!NNNNNNNNNNNGTCCC	4	2247; 2319; 2383; 3678
BsnI	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1361; 1697; 1839; 2494; 2500; 2509; 2552; 2639; 2813; 3204; 3231; 3740; 3797; 3830; 4175; 4609; 4627; 4638
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	1270; 3720
BsoBI	C!YCGRG	4	838; 1198; 1319; 1362
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	360; 2460; 3163
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3534
Bsp24I	!NNNNNNCCANNNNNGTC	2	3955; 4133
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3987; 4165
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3502
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1333; 3413
Bsp120I	G!GGCCC	1	1359
Bsp143I	!GATC	27	585; 644; 1068; 1103; 1115; 1149; 1248; 1315; 1366; 1375; 1388; 2568; 2572; 2591; 2902; 2980; 3061; 3070; 3148; 3524; 3540; 3899; 3911; 3989; 3997; 4008; 4083
Bsp1286I	GDGCH!C	15	773; 779; 787; 1193; 1199; 1326; 1363; 1922; 2677; 2770; 2844; 3034; 3096; 3806; 4339
Bsp1407I	T!GTACA	2	962; 1055
Bsp1720I	GC!TNAGC	1	1231
BspACI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 699; 930; 1254; 1299; 1355; 2046; 2049; 2063; 2153; 2401; 2413; 2422; 2434; 2444; 2455; 2501; 2640; 2703; 3205; 3250; 3316; 3342; 3467; 3470; 3618; 3750; 4057; 4201; 4697
BspACI	G!CGG	28	370; 403; 528; 620; 701; 1178; 1181; 1357; 1991; 2018; 2106; 2216; 2797; 2861; 2962; 2965; 3245; 3300; 3398; 3536; 3683; 3823; 4066; 4311; 4432; 4451; 4578; 4606
BspCNI	CTCAGNNNNNNNN!	1	3856
BspCNI	!NNNNNNCTGAG	6	1223; 2203; 2505; 3386; 3958; 4367
BspDI	AT!CGAT	1	2571
BspD6I	GACTCNNNN!	4	418; 1804; 3410; 4287
BspD6I	!NNNNNGAGTC	2	1767; 2199
BspEI	T!CCGGA	0	
BspFNI	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1357; 1619; 1655; 2031; 2051; 2075; 2106; 2797; 3098; 3536; 3620; 3683; 3752; 4025; 4606
BspHI	T!CATGA	2	2157; 3929
BspLI	GGN!NCC	21	467; 624; 813; 837; 1185; 1353; 1361; 1368; 1886; 1907; 1919; 2110; 2271; 2343; 2732; 2767; 3615; 3694; 3739; 4582; 4621
BspMI	ACCTGCNNNN!	2	2999; 3449
BspMI	!NNNNNNNGCAGGT	1	2618
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	10	1323; 1374; 1383; 2599; 2910; 3156; 3548; 3907; 4005; 4091
BspPI	!NNNNNGATCC	7	580; 639; 1361; 2975; 3519; 3906; 4003
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	1084; 3075; 3285
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1333; 3413
BspT107I	G!GYRCC	7	465; 622; 811; 1351; 1884; 2730; 2765
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1270; 3720
BsrI	ACTGGN!	3	2675; 2876; 4122
BsrI	C!CAGT	7	295; 744; 816; 1760; 2438; 4234; 4247
BsrBI	CCG!CTC	2	2155; 3344
BsrBI	GAG!CGG	2	1991; 3398
BsrDI	GCAATGNN!	1	2964
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	600; 760; 1120; 1948; 3050; 3231; 3514
BsrGI	T!GTACA	2	962; 1055
BsrSI	ACTGGN!	3	2675; 2876; 4122

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	C!CAGT	7	295; 744; 816; 1760; 2438; 4234; 4247
BssAI	R!CCGGY	7	600; 760; 1120; 1948; 3050; 3231; 3514
BssECI	C!CNNGG	23	360; 636; 699; 778; 788; 935; 987; 1289; 1311; 1355; 1362; 2265; 2337; 2460; 2495; 2504; 2553; 2894; 3163; 3568; 3696; 3799; 4489
BssHII	G!CGCGC	1	1284
BssKI	!CCNGG	21	88; 281; 778; 788; 986; 1310; 1361; 1362; 2265; 2320; 2337; 2733; 2893; 3116; 3506; 3695; 3798; 4270; 4488; 4501; 4622
BssMI	!GATC	27	585; 644; 1068; 1103; 1115; 1149; 1248; 1315; 1366; 1375; 1388; 2568; 2572; 2591; 2902; 2980; 3061; 3070; 3148; 3524; 3540; 3899; 3911; 3989; 3997; 4008; 4083
BssNI	GR!CGYC	9	122; 175; 258; 444; 623; 812; 2731; 3433; 3512
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1111; 3449; 4476
BssSI	C!TCGTG	1	3323
BssT1I	C!CWWGG	5	360; 2460; 2553; 3163; 3568
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	4	1084; 2198; 3075; 3285
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 623; 812; 2731; 3433; 3512
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	2298; 2370; 3832
BstAUI	T!GTACA	2	962; 1055
BstBI	TT!CGAA	2	1333; 3413
Bst2BI	C!ACGAG	3	1111; 3449; 4476
Bst2BI	C!TCGTG	1	3323
BstBAI	YAC!GTR	8	340; 654; 882; 1011; 1194; 1224; 1847; 3035
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 1281; 1351; 1822; 3111; 3227; 3335; 3658; 4149; 4619; 4690
BstC8I	GCN!NGC	32	86; 279; 593; 723; 868; 1122; 1286; 1359; 1950; 1993; 2007; 2280; 2299; 2352; 2371; 2625; 2811; 3030; 3096; 3102; 3134; 3175; 3179; 3233; 3516; 3703; 3750; 3806; 3828; 4039; 4599; 4636
BstDEI	C!TNAG	7	1231; 2211; 2513; 3394; 3843; 3966; 4375
BstDSI	C!CRYGG	7	360; 636; 699; 1289; 1355; 2460; 3163
BstEII	G!GTNACC	2	792; 939
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	8	684; 744; 1008; 1245; 2591; 3048; 3073; 3527
BstF5I	!CATCC	2	695; 2417
BstFNI	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1357; 1619; 1655; 2031; 2051; 2075; 2106; 2797; 3098; 3536; 3620; 3683; 3752; 4025; 4606
BstH2I	RGCGC!Y	8	598; 626; 815; 1097; 1998; 2006; 2734; 4409
BstHHI	GCG!C	28	597; 625; 814; 893; 934; 1096; 1286; 1288; 1997; 2005; 2031; 2053; 2062; 2075; 2106; 2725; 2733; 2797; 2834; 3100; 3360; 3536; 3622; 4025; 4134; 4308; 4408; 4475
BstKTI	GAT!C	27	588; 647; 1071; 1106; 1118; 1152; 1251; 1318; 1369; 1378; 1391; 2571; 2575; 2594; 2905; 2983; 3064; 3073; 3151; 3527; 3543; 3902; 3914; 3992; 4000; 4011; 4086
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	5	1270; 2155; 2573; 3592; 3720
BstMBI	!GATC	27	585; 644; 1068; 1103; 1115; 1149; 1248; 1315; 1366; 1375; 1388; 2568; 2572; 2591; 2902; 2980; 3061; 3070; 3148; 3524; 3540; 3899; 3911; 3989; 3997; 4008; 4083
BstMCI	CGRY!CG	3	605; 2640; 4315
BstMWI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 707; 722; 761; 818; 1091; 1130; 1958; 1988; 2015; 2057; 2298; 2370; 2421; 2500; 2722; 2806; 2829; 2968; 3091; 3174; 3441; 3628; 3832; 4031; 4603
BstNI	CC!WGG	15	90; 283; 780; 790; 988; 1312; 2267; 2322; 2339; 3118; 3697; 3800; 4490; 4503; 4624
BstNSI	RCATG!Y	5	870; 2301; 2373; 3136; 4653
BstOI	CC!WGG	15	90; 283; 780; 790; 988; 1312; 2267; 2322; 2339; 3118; 3697; 3800; 4490; 4503; 4624
BstPI	G!GTNACC	2	792; 939
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	21	88; 281; 778; 788; 986; 1310; 1361; 1362; 2265; 2320; 2337; 2733; 2893; 3116; 3506; 3695; 3798; 4270; 4488; 4501; 4622

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSFI	C!TRYAG	4	1340; 2066; 4193; 4384
BstSLI	GKGC!IC	8	773; 779; 1193; 1199; 1363; 2677; 2770; 4339
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1357; 1619; 1655; 2031; 2051; 2075; 2106; 2797; 3098; 3536; 3620; 3683; 3752; 4025; 4606
Bst2UI	CC!WGG	15	90; 283; 780; 790; 988; 1312; 2267; 2322; 2339; 3118; 3697; 3800; 4490; 4503; 4624
BstV1I	GCAGC!NNNNNNNN!	9	629; 968; 1136; 1519; 2804; 2846; 3367; 3820; 4320
BstV1I	!NNNNNNNNNNNGCTGC	7	850; 2013; 2678; 2862; 2955; 4021; 4227
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 644; 1103; 1315; 1366; 1375; 2902; 3148; 3540; 3899; 3911; 3997; 4008
BstYI	R!GATCY	13	585; 644; 1103; 1315; 1366; 1375; 2902; 3148; 3540; 3899; 3911; 3997; 4008
BstZI	C!GGCCG	1	2637
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2160; 2950; 4451
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2571
Bsu36I	CC!TNAGG	2	2211; 3843
BsuRI	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1361; 1697; 1839; 2494; 2500; 2509; 2552; 2639; 2813; 3204; 3231; 3740; 3797; 3830; 4175; 4609; 4627; 4638
BsuTUI	AT!CGAT	1	2571
BtgI	C!CRYGG	7	360; 636; 699; 1289; 1355; 2460; 3163
BtgZI	GCGATGNNNNNNNNNN!	6	686; 731; 779; 926; 1848; 3183
BtgZI	!NNNNNNNNNNNNNNNCATCGC	3	334; 3002; 3346
BthCI	GCNG!IC	35	620; 623; 866; 959; 1127; 1181; 1184; 1301; 1510; 2029; 2051; 2065; 2503; 2642; 2694; 2705; 2795; 2800; 2837; 2878; 2965; 2971; 3207; 3303; 3344; 3358; 3472; 3811; 3826; 4037; 4243; 4246; 4311; 4454; 4609
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	1047; 1570
BtsCI	GGATGNN!	8	684; 744; 1008; 1245; 2591; 3048; 3073; 3527
BtsCI	!CATCC	2	695; 2417
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	2999; 3449
BveI	!NNNNNNNNNGCAGGT	1	2618
Cac8I	GCN!NGC	32	86; 279; 593; 723; 868; 1122; 1286; 1359; 1950; 1993; 2007; 2280; 2299; 2352; 2371; 2625; 2811; 3030; 3096; 3102; 3134; 3175; 3179; 3233; 3516; 3703; 3750; 3806; 3828; 4039; 4599; 4636
CaiI	CAGNNN!CTG	2	3832; 4240
CciI	T!CATGA	2	2157; 3929
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 1143; 1176; 3020; 3025; 3223; 3364
CdiI	C!GATG	7	672; 717; 765; 873; 912; 1834; 3169
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	4603
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2392; 2434
CelII	GC!TNAGC	1	1231
CfoI	GCG!C	28	597; 625; 814; 893; 934; 1096; 1286; 1288; 1997; 2005; 2031; 2053; 2062; 2075; 2106; 2725; 2733; 2797; 2834; 3100; 3360; 3536; 3622; 4025; 4134; 4308; 4408; 4475
CfrI	Y!GGCCR	8	681; 984; 1005; 1145; 2637; 2811; 3202; 3229
Cfr9I	C!CCGGG	1	1362
Cfr10I	R!CCGGY	7	600; 760; 1120; 1948; 3050; 3231; 3514
Cfr13I	G!GNCC	11	83; 276; 835; 1183; 1360; 1838; 3247; 3692; 3738; 3796; 3829
Cfr42I	CCGC!GG	2	702; 1358
ChaI	GATC!	27	589; 648; 1072; 1107; 1119; 1153; 1252; 1319; 1370; 1379; 1392; 2572; 2576; 2595; 2906; 2984; 3065; 3074; 3152; 3528; 3544; 3903; 3915; 3993; 4001; 4012; 4087
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	5	1072; 2548; 3988; 4088; 4166
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2215; 2310; 3502; 4052; 4607

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2249; 2344; 3536; 4086; 4641
CjeI	!NNNNNNNNCCANNNNNNGT	5	1038; 2514; 3954; 4054; 4132
CjePI	CCANNNNNNTCANNNNNNNNNNNN!	2	3988; 4166
CjePI	!NNNNNNNGANNNNNNNTGG	4	257; 966; 3502; 4101
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	4	290; 999; 3535; 4134
CjePI	!NNNNNNCCANNNNNNNNTC	2	3955; 4133
Clal	AT!CGAT	1	2571
CpoI	CG!GWCCG	1	3247
CseI	GACGCNNNNN!	3	526; 3441; 3520
CseI	!NNNNNNNNNGCGTC	3	2064; 3959; 4537
CsiI	A!CCWGGT	1	2320
CspI	CG!GWCCG	1	3247
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 831; 963; 1056; 1203; 1352; 3036
Csp45I	TT!CGAA	2	1333; 3413
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	2	2011; 3620
CstMI	!NNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	18	301; 361; 612; 867; 1212; 2158; 2298; 2370; 2461; 2602; 2947; 3133; 3164; 3190; 3546; 3930; 4650; 4701
CviJI	RG!CY	91	42; 84; 93; 277; 566; 683; 710; 836; 843; 863; 878; 978; 986; 992; 1007; 1075; 1085; 1147; 1184; 1217; 1230; 1268; 1324; 1330; 1361; 1400; 1510; 1677; 1697; 1839; 1920; 1934; 1948; 2229; 2270; 2342; 2465; 2494; 2500; 2509; 2517; 2540; 2552; 2558; 2639; 2656; 2664; 2691; 2716; 2800; 2809; 2813; 2837; 2875; 2951; 2968; 2987; 3050; 3094; 3104; 3121; 3204; 3231; 3235; 3272; 3295; 3311; 3491; 3518; 3579; 3701; 3740; 3797; 3804; 3811; 3830; 3841; 4092; 4121; 4164; 4175; 4240; 4319; 4344; 4349; 4395; 4485; 4583; 4609; 4627; 4638
CviKI-1	RG!CY	91	42; 84; 93; 277; 566; 683; 710; 836; 843; 863; 878; 978; 986; 992; 1007; 1075; 1085; 1147; 1184; 1217; 1230; 1268; 1324; 1330; 1361; 1400; 1510; 1677; 1697; 1839; 1920; 1934; 1948; 2229; 2270; 2342; 2465; 2494; 2500; 2509; 2517; 2540; 2552; 2558; 2639; 2656; 2664; 2691; 2716; 2800; 2809; 2813; 2837; 2875; 2951; 2968; 2987; 3050; 3094; 3104; 3121; 3204; 3231; 3235; 3272; 3295; 3311; 3491; 3518; 3579; 3701; 3740; 3797; 3804; 3811; 3830; 3841; 4092; 4121; 4164; 4175; 4240; 4319; 4344; 4349; 4395; 4485; 4583; 4609; 4627; 4638
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 831; 963; 1056; 1203; 1352; 3036
DdeI	C!TNAG	7	1231; 2211; 2513; 3394; 3843; 3966; 4375
DinI	GGC!GCC	3	624; 813; 2732
DpnI	GA!TC	27	587; 646; 1070; 1105; 1117; 1151; 1250; 1317; 1368; 1377; 1390; 2570; 2574; 2593; 2904; 2982; 3063; 3072; 3150; 3526; 3542; 3901; 3913; 3991; 3999; 4010; 4085
DpnII	!GATC	27	585; 644; 1068; 1103; 1115; 1149; 1248; 1315; 1366; 1375; 1388; 2568; 2572; 2591; 2902; 2980; 3061; 3070; 3148; 3524; 3540; 3899; 3911; 3989; 3997; 4008; 4083
DraI	TTT!AAA	3	1433; 3875; 3894
DraII	RG!GNCCY	1	3829
DraIII	CACNN!GTG	1	1847
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	3	266; 854; 4211
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTT	0	
DrdI	GACNNN!NNGTC	3	1802; 2758; 4547
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1802; 2758; 4547
EaeI	Y!GGCCR	8	681; 984; 1005; 1145; 2637; 2811; 3202; 3229
EagI	C!GGCCG	1	2637
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	1084; 2198; 3075; 3285
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EarI	!NNNNGAAGAG	4	1084; 2198; 3075; 3285
EciI	GGCGGANNNNNNNNNN!	4	2231; 3260; 4447; 4593
EciI	!NNNNNNNNNTCCGCC	4	496; 2402; 2423; 2444
Ecl136II	GAG!CTC	1	1324
EclXI	C!GGCCG	1	2637
Eco24I	GRGCY!C	5	1326; 1363; 1922; 3096; 3806
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1270; 3720
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3247; 3692
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	2637
Eco57I	CTGAAGNNNNNNNNNNNNNN!	4	865; 1108; 2877; 3309
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	675; 4107
Eco72I	CAC!GTG	3	1011; 1194; 1224
Eco81I	CC!TNAGG	2	2211; 3843
Eco88I	C!YCGRG	4	838; 1198; 1319; 1362
Eco91I	G!GTNACC	2	792; 939
Eco105I	TAC!GTA	1	340
Eco130I	C!CWGGG	5	360; 2460; 2553; 3163; 3568
Eco147I	AGG!CCT	1	2552
EcoHI	!CCSGG	6	1361; 1362; 2733; 2893; 3506; 4270
EcoICRI	GAG!CTC	1	1324
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	7	801; 865; 1048; 1108; 2877; 3309; 3571
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	675; 3514; 4107
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	2	792; 939
Eco0109I	RG!GNCCY	1	3829
EcoRI	G!AATTC	1	1335
EcoRII	!CCWGG	15	88; 281; 778; 788; 986; 1310; 2265; 2320; 2337; 3116; 3695; 3798; 4488; 4501; 4622
EcoRV	GAT!ATC	0	
EcoT14I	C!CWGGG	5	360; 2460; 2553; 3163; 3568
EcoT22I	ATGCA!T	3	2303; 2375; 4706
EcoT38I	GRGCY!C	5	1326; 1363; 1922; 3096; 3806
Eco53kI	GAG!CTC	1	1324
EgeI	GGC!GCC	3	624; 813; 2732
EheI	GGC!GCC	3	624; 813; 2732
ErhI	C!CWGGG	5	360; 2460; 2553; 3163; 3568
EsaBC3I	TC!GA	16	906; 948; 1321; 1334; 1347; 1881; 2572; 2845; 3001; 3025; 3061; 3223; 3414; 3459; 3714; 4552
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	18	304; 364; 615; 870; 1215; 2161; 2301; 2373; 2464; 2605; 2950; 3136; 3167; 3193; 3549; 3933; 4653; 4704
Fail	YA!TR	55	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 868; 1213; 1264; 1393; 1403; 1469; 1514; 1719; 2147; 2159; 2290; 2299; 2362; 2371; 2395; 2462; 2486; 2603; 2667; 2948; 2973; 3134; 3165; 3191; 3263; 3479; 3547; 3625; 3677; 3838; 3855; 3857; 3859; 3931; 4209; 4398; 4514; 4587; 4651; 4702
FaII	AAGNNNNNCTTNNNNNNNNNNNN!	2	1113; 3071
FaII	!NNNNNNNNAAGNNNNNCTT	2	1081; 3039
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2882; 3414; 3523
FaqI	!NNNNNNNNNNNNNGTCCC	4	2247; 2319; 2383; 3678
FatI	!CATG	18	300; 360; 611; 866; 1211; 2157; 2297; 2369; 2460; 2601; 2946; 3132; 3163; 3189; 3545; 3929; 4649; 4700
FauI	CCCGCNNNN!	9	93; 119; 286; 937; 2053; 2408; 2429; 3625; 3757
FauI	!NNNNNNGCGGG	6	1350; 1984; 2854; 3391; 3529; 3676
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	1388
FblI	GT!MKAC	1	1346
FmuI	GGNC!C	11	86; 279; 838; 1186; 1363; 1841; 3250; 3695; 3741; 3799; 3832

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	35	618; 621; 864; 957; 1125; 1179; 1182; 1299; 1508; 2027; 2049; 2063; 2501; 2640; 2692; 2703; 2793; 2798; 2835; 2876; 2963; 2969; 3205; 3301; 3342; 3356; 3470; 3809; 3824; 4035; 4241; 4244; 4309; 4452; 4607
FokI	GGATGNNNNNNNNN!	8	691; 751; 1015; 1252; 2598; 3055; 3080; 3534
FokI	!NNNNNNNNNNNNNNCATCC	2	682; 2404
FriOI	GRGCY!C	5	1326; 1363; 1922; 3096; 3806
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2833
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1379; 1580; 1998; 2554; 3569; 3903; 4156
FspEI	CCNNNNNNNNNNNN!	159	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 639; 661; 697; 712; 735; 756; 771; 785; 801; 819; 840; 884; 909; 942; 957; 1000; 1021; 1056; 1089; 1110; 1134; 1161; 1182; 1198; 1212; 1234; 1260; 1282; 1302; 1320; 1368; 1383; 1414; 1453; 1467; 1608; 1703; 1727; 1750; 1773; 1791; 1813; 1834; 1853; 1872; 1901; 1922; 1936; 1962; 2050; 2076; 2125; 2166; 2184; 2223; 2239; 2277; 2334; 2349; 2406; 2426; 2440; 2457; 2471; 2508; 2523; 2566; 2649; 2716; 2747; 2767; 2782; 2827; 2841; 2907; 2921; 2940; 2956; 2997; 3017; 3064; 3114; 3130; 3150; 3175; 3195; 3218; 3245; 3263; 3289; 3329; 3355; 3379; 3435; 3449; 3477; 3520; 3541; 3576; 3620; 3708; 3732; 3754; 3774; 3790; 3811; 3825; 3844; 3928; 3948; 3976; 3991; 4025; 4067; 4094; 4109; 4154; 4178; 4192; 4214; 4240; 4260; 4284; 4310; 4358; 4377; 4396; 4422; 4457; 4502; 4532; 4546; 4597; 4611; 4636; 4652; 4673; 4702
FspEI	!NNNNNNNNNNNNNNNGG	130	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 605; 623; 643; 661; 686; 712; 746; 765; 794; 818; 860; 892; 922; 968; 989; 1012; 1047; 1067; 1106; 1129; 1160; 1222; 1258; 1276; 1297; 1334; 1358; 1402; 1502; 1571; 1679; 1728; 1750; 1778; 1814; 1859; 1888; 1924; 1943; 1971; 1991; 2054; 2077; 2185; 2217; 2235; 2264; 2307; 2336; 2447; 2476; 2519; 2540; 2568; 2601; 2621; 2646; 2673; 2698; 2720; 2748; 2774; 2795; 2846; 2867; 2885; 2933; 2969; 3025; 3050; 3074; 3103; 3126; 3150; 3176; 3198; 3217; 3242; 3282; 3318; 3383; 3468; 3492; 3521; 3555; 3576; 3596; 3641; 3668; 3687; 3720; 3772; 3803; 3830; 3882; 3980; 4051; 4096; 4157; 4222; 4256; 4282; 4300; 4336; 4406; 4429; 4451; 4475; 4508; 4556; 4591; 4609; 4666
Fsp4HI	GC!NGC	35	618; 621; 864; 957; 1125; 1179; 1182; 1299; 1508; 2027; 2049; 2063; 2501; 2640; 2692; 2703; 2793; 2798; 2835; 2876; 2963; 2969; 3205; 3301; 3342; 3356; 3470; 3809; 3824; 4035; 4241; 4244; 4309; 4452; 4607
GdiII	C!GGCCR	1	2637
GdiII	Y!GGCCG	4	1145; 2637; 3202; 3229
GlaI	GC!GC	28	596; 624; 813; 892; 933; 1095; 1285; 1287; 1996; 2004; 2030; 2052; 2061; 2074; 2105; 2724; 2732; 2796; 2833; 3099; 3359; 3535; 3621; 4024; 4133; 4307; 4407; 4474
GluI	GC!NGC	35	618; 621; 864; 957; 1125; 1179; 1182; 1299; 1508; 2027; 2049; 2063; 2501; 2640; 2692; 2703; 2793; 2798; 2835; 2876; 2963; 2969; 3205; 3301; 3342; 3356; 3470; 3809; 3824; 4035; 4241; 4244; 4309; 4452; 4607
GsaI	CCCAG!C	3	2278; 2350; 4349
GsaI	GCTGG!G	2	1018; 3239
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	801; 1048; 3571
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3514
HaeI	WGG!CCW	9	683; 986; 1007; 1075; 2552; 2813; 4175; 4627; 4638
HaeII	RGCGC!Y	8	598; 626; 815; 1097; 1998; 2006; 2734; 4409
HaeIII	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1361; 1697; 1839; 2494; 2500; 2509; 2552; 2639; 2813; 3204; 3231; 3740; 3797; 3830; 4175; 4609; 4627; 4638
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1406; 2927
HaeIV	!NNNNNNNNNGAYNNNNNNRTCC	2	1372; 2893
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1405; 2926
HaeIV	!NNNNNNNNNGAYNNNNNNRTCC	2	1374; 2895
HapII	C!CGG	21	601; 761; 1121; 1363; 1373; 1949; 2636; 2713; 2735; 2763; 2894; 2984; 3051; 3232; 3507; 3515; 3607; 4081; 4271; 4297; 4444
HgaI	GACGCNNNNN!	3	526; 3441; 3520

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HgaI	!NNNNNNNNNGCGTC	3	2064; 3959; 4537
HhaI	GCG!C	28	597; 625; 814; 893; 934; 1096; 1286; 1288; 1997; 2005; 2031; 2053; 2062; 2075; 2106; 2725; 2733; 2797; 2834; 3100; 3360; 3536; 3622; 4025; 4134; 4308; 4408; 4475
Hin1I	GR!CGYC	9	122; 175; 258; 444; 623; 812; 2731; 3433; 3512
Hin1III	CATG!	18	304; 364; 615; 870; 1215; 2161; 2301; 2373; 2464; 2605; 2950; 3136; 3167; 3193; 3549; 3933; 4653; 4704
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1405; 2926
Hin4I	!NNNNNNNGABNNNNNRTC	3	1373; 2894; 2924
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1405; 2926; 2956
Hin4I	!NNNNNNNGAYNNNNNVTC	2	1373; 2894
Hin6I	G!CGC	28	595; 623; 812; 891; 932; 1094; 1284; 1286; 1995; 2003; 2029; 2051; 2060; 2073; 2104; 2723; 2731; 2795; 2832; 3098; 3358; 3534; 3620; 4023; 4132; 4306; 4406; 4473
HinP1I	G!CGC	28	595; 623; 812; 891; 932; 1094; 1284; 1286; 1995; 2003; 2029; 2051; 2060; 2073; 2104; 2723; 2731; 2795; 2832; 3098; 3358; 3534; 3620; 4023; 4132; 4306; 4406; 4473
HincII	GTY!RAC	2	1347; 1494
HindII	GTY!RAC	2	1347; 1494
HindIII	A!AGCTT	1	1328
HinfI	G!ANTC	12	410; 1023; 1774; 1796; 2206; 3216; 3350; 3402; 3460; 3497; 4279; 4675
HpaI	GTT!AAC	1	1494
HpaII	C!CGG	21	601; 761; 1121; 1363; 1373; 1949; 2636; 2713; 2735; 2763; 2894; 2984; 3051; 3232; 3507; 3515; 3607; 4081; 4271; 4297; 4444
HphI	GGTGANNNNNNN!	5	376; 804; 951; 3802; 3918
HphI	!NNNNNNNTCACC	5	891; 1032; 1243; 1848; 2909
Hpy8I	GTN!NAC	11	201; 539; 577; 963; 1191; 1347; 1494; 1778; 1795; 1850; 4337
Hpy99I	CGWCG!	8	1351; 2821; 2849; 3143; 3158; 3435; 3820; 4553
Hpy166II	GTN!NAC	11	201; 539; 577; 963; 1191; 1347; 1494; 1778; 1795; 1850; 4337
Hpy188I	TCN!GA	11	585; 1905; 2514; 2698; 3042; 3395; 3496; 3975; 4109; 4462; 4540
Hpy188III	TC!NNGA	26	924; 948; 996; 1027; 1101; 1319; 1379; 2158; 2210; 2523; 2576; 2749; 3065; 3074; 3157; 3213; 3257; 3347; 3380; 3449; 3930; 4004; 4087; 4185; 4283; 4417
HpyAV	CCTTCNNNNNN!	7	699; 912; 954; 1107; 3376; 3483; 4162
HpyAV	!NNNNNGAAGG	9	840; 993; 1964; 2859; 3588; 3604; 3787; 4104; 4414
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 1281; 1351; 1822; 3111; 3227; 3335; 3658; 4149; 4619; 4690
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 653; 881; 1010; 1193; 1223; 1791; 1803; 1846; 1956; 2847; 3034; 3815; 3948
HpyCH4V	TG!CA	21	755; 866; 885; 1191; 1342; 1480; 1507; 1575; 2292; 2301; 2364; 2373; 2488; 2564; 2623; 2782; 2957; 2971; 4041; 4337; 4704
HpyF3I	C!TNAG	7	1231; 2211; 2513; 3394; 3843; 3966; 4375
HpyF10VI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 707; 722; 761; 818; 1091; 1130; 1958; 1988; 2015; 2057; 2298; 2370; 2421; 2500; 2722; 2806; 2829; 2968; 3091; 3174; 3441; 3628; 3832; 4031; 4603
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 623; 812; 2731; 3433; 3512
Hsp92II	CATG!	18	304; 364; 615; 870; 1215; 2161; 2301; 2373; 2464; 2605; 2950; 3136; 3167; 3193; 3549; 3933; 4653; 4704
HspAI	G!CGC	28	595; 623; 812; 891; 932; 1094; 1284; 1286; 1995; 2003; 2029; 2051; 2060; 2073; 2104; 2723; 2731; 2795; 2832; 3098; 3358; 3534; 3620; 4023; 4132; 4306; 4406; 4473
KasI	G!GCGCC	3	622; 811; 2730
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	1355
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	2	702; 1358
Ksp22I	T!GATCA	1	1388
KspAI	GTT!AAC	1	1494
Kzo9I	!GATC	27	585; 644; 1068; 1103; 1115; 1149; 1248; 1315; 1366; 1375; 1388; 2568; 2572; 2591; 2902; 2980; 3061; 3070; 3148; 3524; 3540; 3899; 3911; 3989; 3997; 4008; 4083
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	1084; 3075; 3285
LpnI	RGC!GCV	8	596; 624; 813; 1095; 1996; 2004; 2732; 4407

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LpnPI	CCDGNNNNNNNNNN!	62	102; 295; 614; 640; 735; 757; 774; 792; 814; 829; 1000; 1066; 1099; 1134; 1171; 1282; 1324; 1376; 1468; 1773; 1962; 2185; 2223; 2239; 2279; 2334; 2351; 2451; 2536; 2649; 2726; 2748; 2771; 2907; 2921; 2940; 2997; 3064; 3114; 3130; 3187; 3245; 3454; 3520; 3544; 3620; 3709; 3812; 3845; 4076; 4094; 4240; 4260; 4284; 4310; 4359; 4457; 4502; 4532; 4611; 4636; 4673
LpnPI	!NNNNNNNNNNNNCHGG	54	75; 268; 552; 586; 746; 765; 871; 973; 1000; 1047; 1106; 1297; 1348; 1814; 1934; 1991; 2054; 2252; 2264; 2324; 2336; 2568; 2613; 2656; 2698; 2720; 2748; 2795; 2857; 2879; 2969; 3036; 3059; 3103; 3198; 3217; 3242; 3391; 3492; 3535; 3592; 3682; 3785; 3812; 3830; 4066; 4103; 4256; 4282; 4422; 4440; 4475; 4556; 4609
Lsp1109I	GCAGCNNNNNNNN!	9	629; 968; 1136; 1519; 2804; 2846; 3367; 3820; 4320
Lsp1109I	!NNNNNNNNNNNGCTGC	7	850; 2013; 2678; 2862; 2955; 4021; 4227
LweI	GCATCNNNNN!	7	704; 1547; 2310; 2382; 3030; 3094; 3369
LweI	!NNNNNNNNNGATGC	7	357; 708; 729; 2689; 2944; 3160; 4552
MabI	A!CCWGGT	1	2320
MaeI	C!TAG	8	592; 1379; 1580; 1998; 2554; 3569; 3903; 4156
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 653; 881; 1010; 1193; 1223; 1791; 1803; 1846; 1956; 2847; 3034; 3815; 3948
MaeIII	!GTNAC	15	61; 148; 497; 792; 939; 1242; 1519; 2020; 2032; 2851; 3157; 3847; 4113; 4229; 4292
MalI	GA!TC	27	587; 646; 1070; 1105; 1117; 1151; 1250; 1317; 1368; 1377; 1390; 2570; 2574; 2593; 2904; 2982; 3063; 3072; 3150; 3526; 3542; 3901; 3913; 3991; 3999; 4010; 4085
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2155; 3344
MbiI	GAG!CGG	2	1991; 3398
MboI	!GATC	27	585; 644; 1068; 1103; 1115; 1149; 1248; 1315; 1366; 1375; 1388; 2568; 2572; 2591; 2902; 2980; 3061; 3070; 3148; 3524; 3540; 3899; 3911; 3989; 3997; 4008; 4083
MboII	GAAGANNNNNNNN!	6	1101; 1987; 2215; 3092; 3302; 3921
MboII	!NNNNNNNTCTTC	4	3382; 3549; 3749; 3992
McaTI	GCGC!GC	1	1287
MfeI	C!AATTG	1	1481
MflI	R!GATCY	13	585; 644; 1103; 1315; 1366; 1375; 2902; 3148; 3540; 3899; 3911; 3997; 4008
MhII	GDGCH!C	15	773; 779; 787; 1193; 1199; 1326; 1363; 1922; 2677; 2770; 2844; 3034; 3096; 3806; 4339
MisI	TGG!CCA	4	683; 986; 1007; 2813
MluI	A!CGCGT	1	1617
MluNI	TGG!CCA	4	683; 986; 1007; 2813
MlyI	GAGTCNNNNN!	2	1783; 2215
MlyI	!NNNNNGACTC	4	404; 1790; 3396; 4273
Mly113I	GG!CGCC	3	623; 812; 2731
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1824
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	4256; 4440
MnII	CCTCNNNNNNN!	7	1450; 2514; 3332; 3538; 3852; 4222; 4546
MnII	!NNNNNGAGG	16	541; 660; 900; 930; 1410; 1875; 2206; 2484; 2527; 2542; 2582; 2646; 2782; 3139; 3569; 4472
Mph1103I	ATGCA!T	3	2303; 2375; 4706
MreI	CG!CCGCGG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	1120; 1948; 3231; 3514
MroXI	GAANN!NNTTC	1	850
MscI	TGG!CCA	4	683; 986; 1007; 2813
MseI	T!TAA	15	7; 1432; 1493; 1614; 1635; 1646; 1658; 1669; 1686; 1784; 2055; 3874; 3888; 3893; 3945
MslI	CAYNN!NNRTG	4	365; 790; 1159; 3168
MspI	C!CGG	21	601; 761; 1121; 1363; 1373; 1949; 2636; 2713; 2735; 2763; 2894; 2984; 3051; 3232; 3507; 3515; 3607; 4081; 4271; 4297; 4444
Msp20I	TGG!CCA	4	683; 986; 1007; 2813
MspA1I	CMG!CKG	7	620; 701; 1357; 2229; 2837; 4066; 4311
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	239	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; 639; 654; 697; 712; 734; 755; 773; 786; 801; 814; 827; 840; 856; 870; 883; 898; 918; 936; 960; 982; 999; 1021; 1039; 1058; 1074; 1088; 1113; 1133; 1155; 1169; 1183; 1198; 1211; 1224; 1243; 1259; 1281; 1297; 1312; 1331; 1346; 1368; 1385; 1399; 1414; 1438; 1455; 1468; 1509; 1523; 1536; 1554; 1592; 1607; 1625; 1666; 1690; 1710; 1728; 1749; 1772; 1804; 1819; 1841; 1859; 1872; 1893; 1910; 1923; 1936; 1952; 1965; 1995; 2010; 2035; 2053; 2066; 2081; 2105; 2119; 2143; 2168; 2184; 2222; 2238; 2277; 2291; 2305; 2333; 2349; 2363; 2377; 2406; 2419; 2440; 2449; 2471; 2501; 2517; 2535; 2565; 2588; 2612; 2636; 2655; 2683; 2709; 2725; 2738; 2761; 2775; 2795; 2808; 2822; 2841; 2855; 2868; 2884; 2899; 2912; 2928; 2943; 2959; 2984; 3003; 3019; 3032; 3045; 3063; 3077; 3091; 3107; 3129; 3145; 3164; 3186; 3202; 3225; 3244; 3258; 3274; 3288; 3308; 3324; 3337; 3359; 3392; 3406; 3426; 3439; 3453; 3507; 3520; 3543; 3556; 3575; 3592; 3619; 3655; 3688; 3707; 3732; 3753; 3780; 3793; 3810; 3824; 3839; 3855; 3915; 3940; 3956; 3978; 3991; 4005; 4036; 4050; 4075; 4093; 4108; 4121; 4140; 4153; 4168; 4197; 4216; 4234; 4259; 4274; 4293; 4309; 4328; 4346; 4362; 4376; 4395; 4422; 4445; 4467; 4486; 4501; 4514; 4531; 4551; 4578; 4591; 4610; 4635; 4658; 4672; 4685; 4702
MspJI	!NNNNNNNNNNNNYNG	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; 598; 623; 640; 661; 678; 698; 718; 738; 758; 775; 794; 814; 844; 866; 890; 910; 932; 956; 973; 995; 1012; 1039; 1057; 1087; 1107; 1129; 1161; 1178; 1198; 1218; 1241; 1267; 1288; 1305; 1325; 1342; 1359; 1383; 1412; 1441; 1483; 1566; 1604; 1628; 1651; 1680; 1724; 1746; 1778; 1814; 1831; 1852; 1889; 1909; 1926; 1943; 1978; 1996; 2014; 2031; 2055; 2077; 2104; 2132; 2158; 2196; 2217; 2234; 2252; 2275; 2296; 2324; 2347; 2368; 2386; 2407; 2424; 2447; 2471; 2491; 2509; 2531; 2562; 2584; 2610; 2629; 2646; 2674; 2693; 2712; 2730; 2748; 2769; 2791; 2815; 2848; 2868; 2886; 2907; 2933; 2960; 2977; 2994; 3011; 3037; 3059; 3081; 3099; 3119; 3138; 3160; 3198; 3218; 3242; 3262; 3282; 3309; 3333; 3366; 3385; 3413; 3435; 3464; 3492; 3517; 3536; 3555; 3576; 3593; 3610; 3641; 3668; 3688; 3711; 3731; 3768; 3785; 3804; 3830; 3850; 3889; 3916; 3935; 3953; 3990; 4008; 4049; 4067; 4093; 4110; 4142; 4171; 4199; 4220; 4243; 4262; 4283; 4301; 4318; 4336; 4362; 4383; 4403; 4423; 4441; 4462; 4488; 4505; 4524; 4543; 4572; 4591; 4609; 4628; 4646; 4664; 4687
MspR9I	CC!NGG	21	90; 283; 780; 790; 988; 1312; 1363; 1364; 2267; 2322; 2339; 2735; 2895; 3118; 3508; 3697; 3800; 4272; 4490; 4503; 4624
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	1481
MvaI	CC!WGG	15	90; 283; 780; 790; 988; 1312; 2267; 2322; 2339; 3118; 3697; 3800; 4490; 4503; 4624
Mva1269I	GAATGCN!	1	1482
Mva1269I	G!CATTC	1	1575
MvnI	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1357; 1619; 1655; 2031; 2051; 2075; 2106; 2797; 3098; 3536; 3620; 3683; 3752; 4025; 4606
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 707; 722; 761; 818; 1091; 1130; 1958; 1988; 2015; 2057; 2298; 2370; 2421; 2500; 2722; 2806; 2829; 2968; 3091; 3174; 3441; 3628; 3832; 4031; 4603
NaeI	GCC!GGC	4	1122; 1950; 3233; 3516
NarI	GG!CGCC	3	623; 812; 2731
NciI	CC!SGG	6	1363; 1364; 2735; 2895; 3508; 4272
NcoI	C!CATGG	3	360; 2460; 3163
NdeI	CA!TATG	1	234
NdeII	!GATC	27	585; 644; 1068; 1103; 1115; 1149; 1248; 1315; 1366; 1375; 1388; 2568; 2572; 2591; 2902; 2980; 3061; 3070; 3148; 3524; 3540; 3899; 3911; 3989; 3997; 4008; 4083
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	2	280; 818
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	2	244; 782
NgoMIV	G!CCGGC	4	1120; 1948; 3231; 3514
NheI	G!CTAGC	1	591

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NlaIII	CATG!	18	304; 364; 615; 870; 1215; 2161; 2301; 2373; 2464; 2605; 2950; 3136; 3167; 3193; 3549; 3933; 4653; 4704
NlaIV	GGN!NCC	21	467; 624; 813; 837; 1185; 1353; 1361; 1368; 1886; 1907; 1919; 2110; 2271; 2343; 2732; 2767; 3615; 3694; 3739; 4582; 4621
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	921; 1563; 1878; 3470
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 4542
Nli3877I	CYCGR!G	4	842; 1202; 1323; 1366
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	960; 2520; 2956
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2485
NmeDI	RCCGGYNNNNNNN!	7	612; 772; 1132; 1960; 3062; 3243; 3526
NmeDI	!NNNNNNNNNNNNRCCGGY	7	587; 747; 1107; 1935; 3037; 3218; 3501
NmuCI	!GTSAC	6	792; 939; 1242; 2020; 2851; 3157
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2833
NsiI	ATGCA!T	3	2303; 2375; 4706
NspI	RCATG!Y	5	870; 2301; 2373; 3136; 4653
NspV	TT!CGAA	2	1333; 3413
OliI	CACNN!NNGTG	1	790
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 833; 965; 1058; 1205; 1354; 3038
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	870; 2301; 2373; 3136
PaeR7I	C!TCGAG	1	1319
PagI	T!CATGA	2	2157; 3929
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3696; 3799
PauI	G!CGCGC	1	1284
PceI	AGG!CCT	1	2552
PciI	A!CATGT	1	4649
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	3	1084; 3075; 3285
Pcsl	WCGNNNN!NNNCGW	6	3025; 3102; 3345; 3419; 3812; 4330
PctI	GAATGCN!	1	1482
PctI	G!CATTC	1	1575
PdiI	GCC!GGC	4	1122; 1950; 3233; 3516
PdmI	GAANN!NNTTC	1	850
PfeI	G!AWTC	6	1023; 3216; 3350; 3460; 3497; 4675
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2849
PfIMI	CCANNNN!NTGG	1	1014
PfoI	T!CCNGGA	1	3506
PhoI	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1361; 1697; 1839; 2494; 2500; 2509; 2552; 2639; 2813; 3204; 3231; 3740; 3797; 3830; 4175; 4609; 4627; 4638
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3112
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2677; 2932
PleI	GAGTCNNNN!	2	1782; 2214
PleI	!NNNNNGACTC	4	404; 1790; 3396; 4273
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	3	1011; 1194; 1224
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	3	1011; 1194; 1224
PpiI	GAACNNNNCTCNNNNNNNNNNNN!	1	1813
PpiI	!NNNNNNNGAGNNNNNGTTC	1	3943
PpiI	GAGNNNNGTTCNNNNNNNNNNNN!	1	3975
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1781
PpsI	GAGTCNNNN!	2	1782; 2214
PpsI	!NNNNNGACTC	4	404; 1790; 3396; 4273
Ppu10I	A!TGCAT	3	2299; 2371; 4702
Ppu21I	YAC!GTR	8	340; 654; 882; 1011; 1194; 1224; 1847; 3035
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4649
PshAI	GACNN!NNGTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1514; 1719
Psp03I	GGWC!C	2	3250; 3695
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	15	88; 281; 778; 788; 986; 1310; 2265; 2320; 2337; 3116; 3695; 3798; 4488; 4501; 4622
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1326
PspCI	CAC!GTG	3	1011; 1194; 1224
PspEI	G!GTNACC	2	792; 939
PspGI	!CCWGG	15	88; 281; 778; 788; 986; 1310; 2265; 2320; 2337; 3116; 3695; 3798; 4488; 4501; 4622
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	21	467; 624; 813; 837; 1185; 1353; 1361; 1368; 1886; 1907; 1919; 2110; 2271; 2343; 2732; 2767; 3615; 3694; 3739; 4582; 4621
PspOMI	G!GGCCC	1	1359
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	4	125; 839; 2461; 3460
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	1	2863
PspPI	G!GNCC	11	83; 276; 835; 1183; 1360; 1838; 3247; 3692; 3738; 3796; 3829
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	2284; 2356; 3862
PspPRI	!NNNNNNNNNNNNNNCTGRGG	3	1048; 2197; 3392
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNTAC	0	
PssI	RGGN!CY	1	3832
PstI	CTGCA!G	1	1344
PstNI	CAGNNN!CTG	2	3832; 4240
PsuI	R!GATCY	13	585; 644; 1103; 1315; 1366; 1375; 2902; 3148; 3540; 3899; 3911; 3997; 4008
PsyI	GACN!NNGTC	1	2849
PteI	G!CGCGC	1	1284
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2229; 2837
RcaI	T!CATGA	2	2157; 3929
RceI	CATCGACNNNNNNNNNNNNNNNN!	1	3246
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	1460
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 832; 964; 1057; 1204; 1353; 3037
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 831; 963; 1056; 1203; 1352; 3036
RseI	CAYNN!NNRTG	4	365; 790; 1159; 3168
RsrII	CG!GWCCG	1	3247
Rsr2I	CG!GWCCG	1	3247
SacI	GAGCT!C	1	1326
SacII	CCGC!GG	2	702; 1358
SalI	G!TCGAC	1	1345
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	1084; 3075; 3285
SaqAI	T!TAA	15	7; 1432; 1493; 1614; 1635; 1646; 1658; 1669; 1686; 1784; 2055; 3874; 3888; 3893; 3945
SatI	GC!NGC	35	618; 621; 864; 957; 1125; 1179; 1182; 1299; 1508; 2027; 2049; 2063; 2501; 2640; 2692; 2703; 2793; 2798; 2835; 2876; 2963; 2969; 3205; 3301; 3342; 3356; 3470; 3809; 3824; 4035; 4241; 4244; 4309; 4452; 4607

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sau96I	G!GNCC	11	83; 276; 835; 1183; 1360; 1838; 3247; 3692; 3738; 3796; 3829
Sau3AI	!GATC	27	585; 644; 1068; 1103; 1115; 1149; 1248; 1315; 1366; 1375; 1388; 2568; 2572; 2591; 2902; 2980; 3061; 3070; 3148; 3524; 3540; 3899; 3911; 3989; 3997; 4008; 4083
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1783; 2215
SchI	!NNNNNGACTC	4	404; 1790; 3396; 4273
SciI	CTC!GAG	1	1321
ScrFI	CC!NGG	21	90; 283; 780; 790; 988; 1312; 1363; 1364; 2267; 2322; 2339; 2735; 2895; 3118; 3508; 3697; 3800; 4272; 4490; 4503; 4624
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNN!	5	912; 2309; 2381; 2550; 4492
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2886; 3371
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	15	773; 779; 787; 1193; 1199; 1326; 1363; 1922; 2677; 2770; 2844; 3034; 3096; 3806; 4339
SelI	!CGCG	21	58; 699; 930; 969; 1254; 1284; 1355; 1617; 1653; 2029; 2049; 2073; 2104; 2795; 3096; 3534; 3618; 3681; 3750; 4023; 4604
SetI	ASST!	69	125; 137; 178; 261; 308; 342; 447; 552; 568; 656; 691; 737; 808; 845; 865; 884; 904; 941; 946; 980; 1013; 1196; 1219; 1226; 1232; 1309; 1313; 1326; 1332; 1421; 1442; 1451; 1463; 1512; 1679; 1794; 1806; 1849; 1886; 1936; 1959; 2083; 2231; 2326; 2519; 2632; 2760; 2839; 2850; 2922; 2993; 3037; 3297; 3443; 3487; 3818; 3849; 3908; 3951; 4094; 4115; 4214; 4351; 4366; 4385; 4397; 4441; 4487; 4538
SexAI	A!CCWGGT	1	2320
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	704; 1547; 2310; 2382; 3030; 3094; 3369
SfaNI	!NNNNNNNNNGATGC	7	357; 708; 729; 2689; 2944; 3160; 4552
SfcI	C!TRYAG	4	1340; 2066; 4193; 4384
SfiI	GGCCNNNN!NGGCC	1	2506
SfoI	GGC!GCC	3	624; 813; 2732
Sfr274I	C!TCGAG	1	1319
Sfr303I	CCGC!GG	2	702; 1358
SfuI	TT!CGAA	2	1333; 3413
SgeI	CNNGNNNNNNNNN!	191	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 639; 654; 712; 734; 756; 773; 786; 801; 828; 850; 870; 883; 898; 918; 936; 960; 982; 999; 1021; 1039; 1065; 1084; 1098; 1113; 1133; 1155; 1170; 1198; 1212; 1234; 1248; 1267; 1281; 1297; 1314; 1331; 1368; 1385; 1438; 1467; 1509; 1592; 1630; 1666; 1750; 1772; 1804; 1841; 1859; 1878; 1893; 1935; 1952; 1969; 2004; 2018; 2035; 2057; 2081; 2105; 2170; 2184; 2222; 2238; 2278; 2291; 2310; 2333; 2350; 2363; 2382; 2412; 2433; 2450; 2473; 2508; 2535; 2566; 2588; 2614; 2636; 2655; 2683; 2719; 2738; 2761; 2775; 2795; 2808; 2822; 2841; 2855; 2874; 2906; 2920; 2933; 2959; 2990; 3003; 3020; 3037; 3051; 3068; 3086; 3101; 3129; 3145; 3164; 3186; 3202; 3225; 3244; 3269; 3288; 3308; 3335; 3359; 3392; 3411; 3439; 3453; 3519; 3543; 3558; 3581; 3602; 3619; 3667; 3694; 3708; 3737; 3761; 3794; 3811; 3831; 3844; 3857; 3915; 3942; 3961; 3991; 4016; 4036; 4050; 4075; 4093; 4130; 4168; 4197; 4225; 4239; 4259; 4274; 4295; 4309; 4328; 4346; 4362; 4402; 4422; 4449; 4467; 4488; 4501; 4514; 4531; 4555; 4578; 4610; 4635; 4662; 4684

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; 598; 623; 640; 686; 708; 730; 747; 765; 787; 814; 844; 868; 892; 910; 934; 956; 973; 995; 1013; 1039; 1058; 1087; 1107; 1129; 1172; 1198; 1222; 1241; 1267; 1288; 1305; 1342; 1359; 1412; 1441; 1483; 1566; 1604; 1640; 1724; 1746; 1778; 1815; 1833; 1852; 1909; 1926; 1943; 1978; 1996; 2016; 2036; 2055; 2079; 2144; 2196; 2252; 2284; 2307; 2324; 2356; 2386; 2407; 2424; 2447; 2482; 2509; 2540; 2562; 2588; 2610; 2629; 2657; 2693; 2712; 2735; 2756; 2774; 2791; 2815; 2848; 2880; 2907; 2933; 2964; 2994; 3011; 3037; 3060; 3081; 3103; 3123; 3143; 3160; 3199; 3218; 3243; 3262; 3282; 3309; 3333; 3366; 3385; 3413; 3435; 3493; 3517; 3536; 3555; 3576; 3593; 3641; 3668; 3688; 3711; 3735; 3768; 3785; 3805; 3831; 3889; 3916; 3935; 3965; 3990; 4010; 4049; 4067; 4104; 4142; 4171; 4199; 4220; 4248; 4269; 4302; 4320; 4376; 4396; 4423; 4441; 4462; 4488; 4505; 4529; 4552; 4584; 4609; 4636; 4658; 4687
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	1	760
SgrBI	CCGC!GG	2	702; 1358
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1878; 3665; 4458
SimI	!GACCC	5	106; 926; 3159; 3727; 3975
SinI	G!GWCC	2	3247; 3692
SlaI	C!TCGAG	1	1319
SmaI	CCC!GGG	1	1364
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	365; 790; 1159; 3168
SmlI	C!TYRAG	6	1319; 1325; 3122; 4004; 4281; 4543
SmoI	C!TYRAG	6	1319; 1325; 3122; 4004; 4281; 4543
SmuI	CCCGCNNNN!	9	93; 119; 286; 937; 2053; 2408; 2429; 3625; 3757
SmuI	!NNNNNNGCGGG	6	1350; 1984; 2854; 3391; 3529; 3676
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	870; 2301; 2373; 3136
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	13	18; 918; 1035; 1335; 1481; 1545; 1623; 1649; 1660; 2307; 2379; 2471; 3889
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2552
SsiI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 699; 930; 1254; 1299; 1355; 2046; 2049; 2063; 2153; 2401; 2413; 2422; 2434; 2444; 2455; 2501; 2640; 2703; 3205; 3250; 3316; 3342; 3467; 3470; 3618; 3750; 4057; 4201; 4697
SsiI	G!CGG	28	370; 403; 528; 620; 701; 1178; 1181; 1357; 1991; 2018; 2106; 2216; 2797; 2861; 2962; 2965; 3245; 3300; 3398; 3536; 3683; 3823; 4066; 4311; 4432; 4451; 4578; 4606
SspI	AAT!ATT	2	1639; 2192
SspDI	G!GCGCC	3	622; 811; 2730
SspD5I	GGTGANNNNNNNN!	5	376; 804; 951; 3802; 3918
SspD5I	!NNNNNNNNNTCACC	5	890; 1031; 1242; 1847; 2908
SstI	GAGCT!C	1	1326
SstII	CCGC!GG	2	702; 1358
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 779; 845; 878; 936; 1193; 1205; 1369; 1930; 2052; 2407; 2428; 2741; 3144; 3283; 3354; 3624; 3756; 3986; 4424
Sth132I	!NNNNNNNNCNGGG	19	15; 407; 470; 1349; 1931; 1983; 2084; 2811; 2853; 2886; 3390; 3499; 3528; 3675; 3779; 3810; 4263; 4307; 4515
Sth302II	CC!GG	21	602; 762; 1122; 1364; 1374; 1950; 2637; 2714; 2736; 2764; 2895; 2985; 3052; 3233; 3508; 3516; 3608; 4082; 4272; 4298; 4445
StrI	C!TCGAG	1	1319
StsI	GGATGNNNNNNNNNN!	8	692; 752; 1016; 1253; 2599; 3056; 3081; 3535
StsI	!NNNNNNNNNNNNNNCATCC	2	681; 2403

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StuI	AGG!CCT	1	2552
StyI	C!CWGG	5	360; 2460; 2553; 3163; 3568
StyD4I	!CCNGG	21	88; 281; 778; 788; 986; 1310; 1361; 1362; 2265; 2320; 2337; 2733; 2893; 3116; 3506; 3695; 3798; 4270; 4488; 4501; 4622
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 1281; 1351; 1822; 3111; 3227; 3335; 3658; 4149; 4619; 4690
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 656; 884; 1013; 1196; 1226; 1794; 1806; 1849; 1959; 2850; 3037; 3818; 3951
TaqI	T!CGA	16	905; 947; 1320; 1333; 1346; 1880; 2571; 2844; 3000; 3024; 3060; 3222; 3413; 3458; 3713; 4551
TaqII	GACCGANNNNNNNNNN!	4	1261; 1751; 2768; 3436
TaqII	!NNNNNNNNNTCGGTC	1	3680
TaqII	CACCCANNNNNNNNNN!	1	1171
TaqII	!NNNNNNNNNTGGGTG	3	172; 2635; 3227
TasI	!AATT	13	18; 918; 1035; 1335; 1481; 1545; 1623; 1649; 1660; 2307; 2379; 2471; 3889
TatI	W!GTACW	6	217; 297; 330; 381; 962; 1055
TauI	GCSG!C	19	623; 1181; 1184; 1301; 2051; 2065; 2503; 2642; 2705; 2800; 2965; 2968; 3207; 3303; 3344; 3472; 3826; 4454; 4609
TfiI	G!AWTC	6	1023; 3216; 3350; 3460; 3497; 4675
TliI	C!TCGAG	1	1319
TruII	T!TAA	15	7; 1432; 1493; 1614; 1635; 1646; 1658; 1669; 1686; 1784; 2055; 3874; 3888; 3893; 3945
Tru9I	T!TAA	15	7; 1432; 1493; 1614; 1635; 1646; 1658; 1669; 1686; 1784; 2055; 3874; 3888; 3893; 3945
TscAI	CASTGNN!	7	823; 1054; 1577; 2860; 3970; 4241; 4254
TseI	G!CWGC	17	617; 863; 956; 1124; 1507; 2026; 2691; 2792; 2834; 2875; 2968; 3355; 3808; 4034; 4240; 4243; 4308
TsoI	TARCCANNNNNNNNNN!	2	1703; 2050
TsoI	!NNNNNNNNNTGGYTA	3	866; 1508; 3260
Tsp45I	!GTSAC	6	792; 939; 1242; 2020; 2851; 3157
Tsp509I	!AATT	13	18; 918; 1035; 1335; 1481; 1545; 1623; 1649; 1660; 2307; 2379; 2471; 3889
TspDTI	ATGAANNNNNNNNNN!	4	1177; 1489; 2790; 3494
TspDTI	!NNNNNNNNNTTCAT	6	26; 738; 1128; 3208; 3664; 3871
TspEI	!AATT	13	18; 918; 1035; 1335; 1481; 1545; 1623; 1649; 1660; 2307; 2379; 2471; 3889
TspGWI	ACGGANNNNNNNNNN!	2	1288; 3606
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1362
TspRI	CASTGNN!	7	823; 1054; 1577; 2860; 3970; 4241; 4254
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2849
Tth111II	CAARCAANNNNNNNNNN!	1	4058
Tth111III	!NNNNNNNNNTGYTTG	3	3166; 4026; 4065
UnbI	!GGNCC	11	82; 275; 834; 1182; 1359; 1837; 3246; 3691; 3737; 3795; 3828
Van91I	CCANNNN!NTGG	1	1014
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	1189; 4335
VpaK11AI	!GGWCC	2	3246; 3691
VpaK11BI	G!GWCC	2	3247; 3692
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	1335; 1545; 1649; 1660
XbaI	T!CTAGA	1	1378
XceI	RCATG!Y	5	870; 2301; 2373; 3136; 4653
XcmI	CCANNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1319
XhoII	R!GATCY	13	585; 644; 1103; 1315; 1366; 1375; 2902; 3148; 3540; 3899; 3911; 3997; 4008
XmaI	C!CCGGG	1	1362
XmaJI	C!CTAGG	2	2553; 3568

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XmiI	GT!MKAC	1	1346
XmnI	GAANN!NNTTC	1	850
XspI	C!TAG	8	592; 1379; 1580; 1998; 2554; 3569; 3903; 4156
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2303; 2375; 4706