

## pPhi-Yellow-peroxi vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1522; 1727
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	4	1311; 1810; 2766; 4555
AatI	AGG!CCT	1	2560
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1354
AccII	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1365; 1627; 1663; 2039; 2059; 2083; 2114; 2805; 3106; 3544; 3628; 3691; 3760; 4033; 4614
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2841
Acc36I	ACCTGCNNNN!	2	3007; 3457
Acc36I	!NNNNNNNNGCAGGT	1	2626
Acc65I	G!GTACC	1	1359
AccB1I	G!GYRCC	7	465; 622; 811; 1359; 1892; 2738; 2773
AccB7I	CCANNNN!NTGG	1	1014
AccBSI	CCG!CTC	2	2163; 3352
AccBSI	GAG!CGG	2	1999; 3406
AceIII	CAGCTCNNNNNNN!	1	1695
AceIII	!NNNNNNNNNNNGAGCTG	3	552; 829; 849
AciI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 699; 930; 1254; 1299; 1363; 2054; 2057; 2071; 2161; 2409; 2421; 2430; 2442; 2452; 2463; 2509; 2648; 2711; 3213; 3258; 3324; 3350; 3475; 3478; 3626; 3758; 4065; 4209; 4705
AciI	G!CGG	28	370; 403; 528; 620; 701; 1178; 1181; 1365; 1999; 2026; 2114; 2224; 2805; 2869; 2970; 2973; 3253; 3308; 3406; 3544; 3691; 3831; 4074; 4319; 4440; 4459; 4586; 4614
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	1382; 1391; 2607; 2918; 3164; 3556; 3915; 4013; 4099
AclWI	!NNNNNGATCC	7	580; 639; 1369; 2983; 3527; 3914; 4011
AcoI	Y!GGCCR	7	681; 1005; 1145; 2645; 2819; 3210; 3237
AcsI	R!AATTY	4	1343; 1553; 1657; 1668
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	4	865; 1108; 2885; 3317
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	675; 4115
AcvI	CAC!GTG	3	1011; 1194; 1224
AcyI	GR!CGYC	9	122; 175; 258; 444; 623; 812; 2739; 3441; 3520
AdeI	CACNNN!GTG	1	1855
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 832; 964; 1057; 1204; 1361; 3045
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	22	49; 654; 705; 779; 936; 1014; 1177; 1751; 2077; 2469; 2720; 3264; 3545; 3577; 3709; 3744; 3794; 3826; 4179; 4458; 4624; 4642
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	2	1625; 4657
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	9	924; 996; 1035; 1101; 2150; 2194; 2204; 2617; 4193
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	14	88; 281; 778; 788; 986; 2273; 2328; 2345; 3124; 3703; 3806; 4496; 4509; 4630
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	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	2313; 2385
AlfI	!NNNNNNNNNGCANNNNNTGC	2	2279; 2351
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	1821
AloI	!NNNNNNNGGANNNNNNGTTC	1	730
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	1	762
AloI	!NNNNNNNGAACNNNNNTCC	1	1789
AluI	AG!CT	21	566; 843; 863; 978; 1217; 1230; 1320; 1326; 1332; 1338; 1518; 1685; 1942; 2237; 2525; 2845; 3303; 4100; 4357; 4403; 4493
AluBI	AG!CT	21	566; 843; 863; 978; 1217; 1230; 1320; 1326; 1332; 1338; 1518; 1685; 1942; 2237; 2525; 2845; 3303; 4100; 4357; 4403; 4493
AlwI	GGATCNNNN!	9	1382; 1391; 2607; 2918; 3164; 3556; 3915; 4013; 4099
AlwI	!NNNNNGATCC	7	580; 639; 1369; 2983; 3527; 3914; 4011
Alw21I	GWGCW!C	6	787; 1193; 1334; 2852; 3042; 4347
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1270; 2163; 2581; 3600; 3728
Alw44I	G!TGCAC	2	1189; 4343
AlwNI	CAGNNN!CTG	2	3840; 4248
Ama87I	C!YCGRG	4	838; 1198; 1327; 1370
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	1371
ApaBI	GCANNNNN!TGC	3	2307; 2379; 3841
ApaLI	G!TGCAC	2	1189; 4343
ApeKI	G!CWGC	17	617; 863; 956; 1124; 1515; 2034; 2699; 2800; 2842; 2883; 2976; 3363; 3816; 4042; 4248; 4251; 4316
ApoI	R!AATTY	4	1343; 1553; 1657; 1668
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3254
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3048; 3701; 4539
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3138
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	812
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2567
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	3309
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	26	586; 645; 1069; 1104; 1116; 1150; 1249; 1375; 1384; 1397; 2577; 2581; 2600; 2911; 2989; 3070; 3079; 3157; 3533; 3549; 3908; 3920; 3998; 4006; 4017; 4092
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2857
Asp700I	GAANN!NNTTC	1	850
Asp718I	G!GTACC	1	1359
AspA2I	C!CTAGG	2	2561; 3576
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	28	597; 625; 814; 893; 934; 1096; 1286; 1288; 2005; 2013; 2039; 2061; 2070; 2083; 2114; 2733; 2741; 2805; 2842; 3108; 3368; 3544; 3630; 4033; 4142; 4316; 4416; 4483
AspS9I	G!GNCC	11	83; 276; 835; 1183; 1368; 1846; 3255; 3700; 3746; 3804; 3837
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	1341; 3421
AsuC2I	CC!SGG	6	1371; 1372; 2743; 2903; 3516; 4280
AsuHPI	GGTGANNNNNNNN!	5	376; 804; 951; 3810; 3926
AsuHPI	!NNNNNNNTCACC	5	891; 1032; 1243; 1856; 2917
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	838; 1198; 1327; 1370
AvaII	G!GWCC	2	3255; 3700
AviII	TGC!GCA	1	2841
AvrII	C!CTAGG	2	2561; 3576

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AxyI	CC!TNAGG	2	2219; 3851
BaeI	ACNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	773; 779; 1193; 1199; 1371; 2685; 2778; 4347
BalI	TGG!CCA	3	683; 1007; 2821
BamHI	G!GATCC	1	1374
BanI	G!GYRCC	7	465; 622; 811; 1359; 1892; 2738; 2773
BanII	GRGCY!C	5	1334; 1371; 1930; 3104; 3814
BanIII	AT!CGAT	1	2579
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	870
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	838
BasI	CCANNNN!NTGG	1	1014
BauI	C!ACGAG	3	1111; 3457; 4484
BauI	C!TCGTG	1	3331
BbeI	GGCGC!C	3	626; 815; 2742
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	3	1011; 1194; 1224
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	4	870; 2309; 2381; 3144
BbvI	GCAGCNNNNNNNN!	9	629; 968; 1136; 1527; 2812; 2854; 3375; 3828; 4328
BbvI	!NNNNNNNNNNNGCTGC	7	850; 2021; 2686; 2870; 2963; 4029; 4235
Bbv12I	GWGCW!C	6	787; 1193; 1334; 2852; 3042; 4347
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	904; 1180; 1869; 2433; 2959; 3461
BccI	!NNNNNGATGG	8	657; 673; 868; 907; 997; 1837; 2617; 3045
BceAI	ACGGCNNNNNNNNNN!	7	654; 729; 825; 849; 1098; 3165; 3652
BceAI	!NNNNNNNNNNNGCCGT	4	1273; 1880; 2698; 4157
BceFI	ACGGCNNNNNNNNNN!	7	654; 729; 825; 849; 1098; 3165; 3652
BceFI	!NNNNNNNNNNNGCCGT	4	1274; 1881; 2699; 4158
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2168; 2958; 4459
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1396
BcnI	CC!SGG	6	1371; 1372; 2743; 2903; 3516; 4280
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNN!	2	1419; 4592
BdaI	!NNNNNNNNNNTGANNNNNNTCA	2	1385; 4558
BfaI	C!TAG	8	592; 1387; 1588; 2006; 2562; 3577; 3911; 4164
BfiI	ACTGGGNNNNN!	1	2688
BfiI	!NNNNCCCAGT	4	289; 738; 810; 2440
BfmI	C!TRYAG	5	1321; 1348; 2074; 4201; 4392
BfoI	RGCGC!Y	8	598; 626; 815; 1097; 2006; 2014; 2742; 4417
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2168; 2958; 4459
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3007; 3457
BfuAI	!NNNNNNNNNGCAGGT	1	2626
BfuCI	!GATC	26	585; 644; 1068; 1103; 1115; 1149; 1248; 1374; 1383; 1396; 2576; 2580; 2599; 2910; 2988; 3069; 3078; 3156; 3532; 3548; 3907; 3919; 3997; 4005; 4016; 4091
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2514
BglII	A!GATCT	1	1103

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BisI	GC!NGC	35	618; 621; 864; 957; 1125; 1179; 1182; 1299; 1516; 2035; 2057; 2071; 2509; 2648; 2700; 2711; 2801; 2806; 2843; 2884; 2971; 2977; 3213; 3309; 3350; 3364; 3478; 3817; 3832; 4043; 4249; 4252; 4317; 4460; 4615
BlnI	C!CTAGG	2	2561; 3576
BlpI	GC!TNAGC	1	1231
BlsI	GCN!GC	35	619; 622; 865; 958; 1126; 1180; 1183; 1300; 1517; 2036; 2058; 2072; 2510; 2649; 2701; 2712; 2802; 2807; 2844; 2885; 2972; 2978; 3214; 3310; 3351; 3365; 3479; 3818; 3833; 4044; 4250; 4253; 4318; 4461; 4616
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	3255; 3700
Bme1390I	CC!NGG	20	90; 283; 780; 790; 988; 1371; 1372; 2275; 2330; 2347; 2743; 2903; 3126; 3516; 3705; 3808; 4280; 4498; 4511; 4632
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	838; 1198; 1327; 1370
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	84; 277; 836; 1184; 1369; 1847; 3256; 3701; 3747; 3805; 3838
BmiI	GGN!NCC	21	467; 624; 813; 837; 1185; 1361; 1369; 1376; 1894; 1915; 1927; 2118; 2279; 2351; 2740; 2775; 3623; 3702; 3747; 4590; 4629
BmrI	ACTGGGNNNNN!	1	2688
BmrI	!NNNNCCCAGT	4	289; 738; 810; 2440
BmrFI	CC!NGG	20	90; 283; 780; 790; 988; 1371; 1372; 2275; 2330; 2347; 2743; 2903; 3126; 3516; 3705; 3808; 4280; 4498; 4511; 4632
BmsI	GCATCNNNNN!	7	704; 1555; 2318; 2390; 3038; 3102; 3377
BmsI	!NNNNNNNNNGATGC	7	357; 708; 729; 2697; 2952; 3168; 4560
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2688
BmuI	!NNNNCCCAGT	4	289; 738; 810; 2440
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2528; 3427
BpI	!NNNNNNNNNGAGNNNNNCTC	2	2496; 3395
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	801; 1048; 3579
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3522
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1341; 3421
Bpu1102I	GC!TNAGC	1	1231
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4033; 4572
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	1318; 3115; 4274
BpuMI	CC!SGG	6	1371; 1372; 2743; 2903; 3516; 4280
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1270; 3728
Bsa29I	AT!CGAT	1	2579
BsaAI	YAC!GTR	8	340; 654; 882; 1011; 1194; 1224; 1855; 3043
BsaBI	GATNN!NNATC	2	1401; 2598
BsaHI	GR!CGYC	9	122; 175; 258; 444; 623; 812; 2739; 3441; 3520
BsaJI	C!CNNGG	24	360; 636; 699; 778; 788; 935; 987; 1289; 1363; 1370; 2273; 2345; 2468; 2503; 2512; 2561; 2902; 3171; 3576; 3703; 3704; 3806; 3807; 4497
BsaMI	GAATGCN!	1	1490
BsaMI	G!CATTC	1	1583
BsaWI	W!CCGGW	6	600; 1380; 2770; 3614; 4304; 4451
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1819
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1789
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	2	1740; 3647

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Bsc4I	CCNNNNN!NNGG	22	49; 654; 705; 779; 936; 1014; 1177; 1751; 2077; 2469; 2720; 3264; 3545; 3577; 3709; 3744; 3794; 3826; 4179; 4458; 4624; 4642
BscAI	GCATCNNNN!	7	703; 1554; 2317; 2389; 3037; 3101; 3376
BscAI	!NNNNNNGATGC	7	360; 711; 732; 2700; 2955; 3171; 4563
BseI	ACTGGN!	3	2683; 2884; 4130
BseI	C!CAGT	7	295; 744; 816; 1768; 2446; 4242; 4255
Bse8I	GATNN!NNATC	2	1401; 2598
Bse21I	CC!TNAGG	2	2219; 3851
Bse118I	R!CCGGY	7	600; 760; 1120; 1956; 3058; 3239; 3522
BseAI	T!CCGGA	0	
BseBI	CC!WGG	14	90; 283; 780; 790; 988; 2275; 2330; 2347; 3126; 3705; 3808; 4498; 4511; 4632
BseCI	AT!CGAT	1	2579
BseDI	C!CNNGG	24	360; 636; 699; 778; 788; 935; 987; 1289; 1363; 1370; 2273; 2345; 2468; 2503; 2512; 2561; 2902; 3171; 3576; 3703; 3704; 3806; 3807; 4497
Bse3DI	GCAATGNN!	1	2972
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	8	684; 744; 1008; 1245; 2599; 3056; 3081; 3535
BseGI	!CATCC	2	695; 2425
BseJI	GATNN!NNATC	2	1401; 2598
BseLI	CCNNNNN!NNGG	22	49; 654; 705; 779; 936; 1014; 1177; 1751; 2077; 2469; 2720; 3264; 3545; 3577; 3709; 3744; 3794; 3826; 4179; 4458; 4624; 4642
BseMI	GCAATGNN!	1	2972
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	3865
BseMII	!NNNNNNNNCTGAG	6	1222; 2210; 2512; 3393; 3965; 4374
BseNI	ACTGGN!	3	2683; 2884; 4130
BseNI	C!CAGT	7	295; 744; 816; 1768; 2446; 4242; 4255
BsePI	G!CGCGC	1	1284
BseRI	GAGGAGNNNNNNNNNN!	1	2557
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC M!C	8	773; 779; 1193; 1199; 1371; 2685; 2778; 4347
BseXI	GCAGC NNNNNNNNN!	9	629; 968; 1136; 1527; 2812; 2854; 3375; 3828; 4328
BseXI	!NNNNNNNNNNNGCTGC	7	850; 2021; 2686; 2870; 2963; 4029; 4235
BseX3I	C!GGCCG	1	2645
BseYI	C!CCAGC	3	2282; 2354; 4353
BseYI	G!CTGGG	2	1014; 3243
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	904
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	738
Bsh1236I	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1365; 1627; 1663; 2039; 2059; 2083; 2114; 2805; 3106; 3544; 3628; 3691; 3760; 4033; 4614
Bsh1285I	CGRY!CG	3	605; 2648; 4323
BshFI	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1369; 1705; 1847; 2502; 2508; 2517; 2560; 2647; 2821; 3212; 3239; 3748; 3805; 3838; 4183; 4617; 4635; 4646
BshNI	G!GYRCC	7	465; 622; 811; 1359; 1892; 2738; 2773
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	2579
BsiEI	CGRY!CG	3	605; 2648; 4323
BsiHKAI	GWGCW!C	6	787; 1193; 1334; 2852; 3042; 4347
BsiHKCI	C!YCGRG	4	838; 1198; 1327; 1370
BsiSI	C!CGG	21	601; 761; 1121; 1371; 1381; 1957; 2644; 2721; 2743; 2771; 2902; 2992; 3059; 3240; 3515; 3523; 3615; 4089; 4279; 4305; 4452
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	22	49; 654; 705; 779; 936; 1014; 1177; 1751; 2077; 2469; 2720; 3264; 3545; 3577; 3709; 3744; 3794; 3826; 4179; 4458; 4624; 4642
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2890; 3422; 3531
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2255; 2327; 2391; 3686
BsmI	GAATGCN!	1	1490
BsmI	G!CATTC	1	1583
BsmAI	GTCTCN!	1	434

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BsmAI	!NNNNNGAGAC	5	1270; 2163; 2581; 3600; 3728
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2890; 3422; 3531
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2255; 2327; 2391; 3686
BsnI	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1369; 1705; 1847; 2502; 2508; 2517; 2560; 2647; 2821; 3212; 3239; 3748; 3805; 3838; 4183; 4617; 4635; 4646
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	1270; 3728
BsoBI	C!YCGRG	4	838; 1198; 1327; 1370
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	360; 2468; 3171
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3542
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	3963; 4141
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	3995; 4173
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 3510
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1341; 3421
Bsp120I	G!GGCCC	1	1367
Bsp143I	!GATC	26	585; 644; 1068; 1103; 1115; 1149; 1248; 1374; 1383; 1396; 2576; 2580; 2599; 2910; 2988; 3069; 3078; 3156; 3532; 3548; 3907; 3919; 3997; 4005; 4016; 4091
Bsp1286I	GDGCH!C	15	773; 779; 787; 1193; 1199; 1334; 1371; 1930; 2685; 2778; 2852; 3042; 3104; 3814; 4347
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; 1363; 2054; 2057; 2071; 2161; 2409; 2421; 2430; 2442; 2452; 2463; 2509; 2648; 2711; 3213; 3258; 3324; 3350; 3475; 3478; 3626; 3758; 4065; 4209; 4705
BspACI	G!CGG	28	370; 403; 528; 620; 701; 1178; 1181; 1365; 1999; 2026; 2114; 2224; 2805; 2869; 2970; 2973; 3253; 3308; 3406; 3544; 3691; 3831; 4074; 4319; 4440; 4459; 4586; 4614
BspCNI	CTCAGNNNNNNNNNN!	1	3864
BspCNI	!NNNNNNNCTGAG	6	1223; 2211; 2513; 3394; 3966; 4375
BspDI	AT!CGAT	1	2579
BspD6I	GACTCNNNN!	4	418; 1812; 3418; 4295
BspD6I	!NNNNNGAGTC	2	1775; 2207
BspEI	T!CCGGA	0	
BspFNI	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1365; 1627; 1663; 2039; 2059; 2083; 2114; 2805; 3106; 3544; 3628; 3691; 3760; 4033; 4614
BspHI	T!CATGA	2	2165; 3937
BspLI	GGN!NCC	21	467; 624; 813; 837; 1185; 1361; 1369; 1376; 1894; 1915; 1927; 2118; 2279; 2351; 2740; 2775; 3623; 3702; 3747; 4590; 4629
BspMI	ACCTGCNNNN!	2	3007; 3457
BspMI	!NNNNNNNGCAGGT	1	2626
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	1382; 1391; 2607; 2918; 3164; 3556; 3915; 4013; 4099
BspPI	!NNNNNGATCC	7	580; 639; 1369; 2983; 3527; 3914; 4011
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	1084; 3083; 3293
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1341; 3421
BspT107I	G!GYRCC	7	465; 622; 811; 1359; 1892; 2738; 2773
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1270; 3728
BsrI	ACTGGN!	3	2683; 2884; 4130
BsrI	C!CAGT	7	295; 744; 816; 1768; 2446; 4242; 4255
BsrBI	CCG!CTC	2	2163; 3352
BsrBI	GAG!CGG	2	1999; 3406
BsrDI	GCAATGNN!	1	2972
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	600; 760; 1120; 1956; 3058; 3239; 3522
BsrGI	T!GTACA	2	962; 1055
BsrSI	ACTGGN!	3	2683; 2884; 4130

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	C!CAGT	7	295; 744; 816; 1768; 2446; 4242; 4255
BssAI	R!CCGGY	7	600; 760; 1120; 1956; 3058; 3239; 3522
BssECI	C!CNNGG	24	360; 636; 699; 778; 788; 935; 987; 1289; 1363; 1370; 2273; 2345; 2468; 2503; 2512; 2561; 2902; 3171; 3576; 3703; 3704; 3806; 3807; 4497
BssHII	G!CGCGC	1	1284
BssKI	!CCNGG	20	88; 281; 778; 788; 986; 1369; 1370; 2273; 2328; 2345; 2741; 2901; 3124; 3514; 3703; 3806; 4278; 4496; 4509; 4630
BssMI	!GATC	26	585; 644; 1068; 1103; 1115; 1149; 1248; 1374; 1383; 1396; 2576; 2580; 2599; 2910; 2988; 3069; 3078; 3156; 3532; 3548; 3907; 3919; 3997; 4005; 4016; 4091
BssNI	GR!CGYC	9	122; 175; 258; 444; 623; 812; 2739; 3441; 3520
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1111; 3457; 4484
BssSI	C!TCGTG	1	3331
BssT1I	C!CWWGG	5	360; 2468; 2561; 3171; 3576
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	1084; 2206; 3083; 3293
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 623; 812; 2739; 3441; 3520
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	2306; 2378; 3840
BstAUI	T!GTACA	2	962; 1055
BstBI	TT!CGAA	2	1341; 3421
Bst2BI	C!ACGAG	3	1111; 3457; 4484
Bst2BI	C!TCGTG	1	3331
BstBAI	YAC!GTR	8	340; 654; 882; 1011; 1194; 1224; 1855; 3043
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 1281; 1359; 1830; 3119; 3235; 3343; 3666; 4157; 4627; 4698
BstC8I	GCN!NGC	32	86; 279; 593; 723; 868; 1122; 1286; 1367; 1958; 2001; 2015; 2288; 2307; 2360; 2379; 2633; 2819; 3038; 3104; 3110; 3142; 3183; 3187; 3241; 3524; 3711; 3758; 3814; 3836; 4047; 4607; 4644
BstDEI	C!TNAG	7	1231; 2219; 2521; 3402; 3851; 3974; 4383
BstDSI	C!CRYGG	7	360; 636; 699; 1289; 1363; 2468; 3171
BstEII	G!GTNACC	2	792; 939
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	8	684; 744; 1008; 1245; 2599; 3056; 3081; 3535
BstF5I	!CATCC	2	695; 2425
BstFNI	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1365; 1627; 1663; 2039; 2059; 2083; 2114; 2805; 3106; 3544; 3628; 3691; 3760; 4033; 4614
BstH2I	RGCGC!Y	8	598; 626; 815; 1097; 2006; 2014; 2742; 4417
BstHHI	GCG!C	28	597; 625; 814; 893; 934; 1096; 1286; 1288; 2005; 2013; 2039; 2061; 2070; 2083; 2114; 2733; 2741; 2805; 2842; 3108; 3368; 3544; 3630; 4033; 4142; 4316; 4416; 4483
BstKTI	GAT!C	26	588; 647; 1071; 1106; 1118; 1152; 1251; 1377; 1386; 1399; 2579; 2583; 2602; 2913; 2991; 3072; 3081; 3159; 3535; 3551; 3910; 3922; 4000; 4008; 4019; 4094
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	5	1270; 2163; 2581; 3600; 3728
BstMBI	!GATC	26	585; 644; 1068; 1103; 1115; 1149; 1248; 1374; 1383; 1396; 2576; 2580; 2599; 2910; 2988; 3069; 3078; 3156; 3532; 3548; 3907; 3919; 3997; 4005; 4016; 4091
BstMCI	CGRY!CG	3	605; 2648; 4323
BstMWI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 707; 722; 761; 818; 1091; 1130; 1966; 1996; 2023; 2065; 2306; 2378; 2429; 2508; 2730; 2814; 2837; 2976; 3099; 3182; 3449; 3636; 3840; 4039; 4611
BstNI	CC!WGG	14	90; 283; 780; 790; 988; 2275; 2330; 2347; 3126; 3705; 3808; 4498; 4511; 4632
BstNSI	RCATG!Y	5	870; 2309; 2381; 3144; 4661
BstOI	CC!WGG	14	90; 283; 780; 790; 988; 2275; 2330; 2347; 3126; 3705; 3808; 4498; 4511; 4632
BstPI	G!GTNACC	2	792; 939
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	20	88; 281; 778; 788; 986; 1369; 1370; 2273; 2328; 2345; 2741; 2901; 3124; 3514; 3703; 3806; 4278; 4496; 4509; 4630

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSFI	C!TRYAG	5	1321; 1348; 2074; 4201; 4392
BstSLI	GKGC!C	8	773; 779; 1193; 1199; 1371; 2685; 2778; 4347
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1365; 1627; 1663; 2039; 2059; 2083; 2114; 2805; 3106; 3544; 3628; 3691; 3760; 4033; 4614
Bst2UI	CC!WGG	14	90; 283; 780; 790; 988; 2275; 2330; 2347; 3126; 3705; 3808; 4498; 4511; 4632
BstV1I	GCAGC!NNNNNNNN!	9	629; 968; 1136; 1527; 2812; 2854; 3375; 3828; 4328
BstV1I	!NNNNNNNNNNNGCTGC	7	850; 2021; 2686; 2870; 2963; 4029; 4235
BstV2I	GAAGAC!NN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CC!NNNNNN!NTGG	0	
BstX2I	R!GATCY	12	585; 644; 1103; 1374; 1383; 2910; 3156; 3548; 3907; 3919; 4005; 4016
BstYI	R!GATCY	12	585; 644; 1103; 1374; 1383; 2910; 3156; 3548; 3907; 3919; 4005; 4016
BstZI	C!GGCCG	1	2645
BstZ17I	GTA!TAC	0	
BsuI	GTATCC!NNNNNN!	3	2168; 2958; 4459
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2579
Bsu36I	CC!TNAGG	2	2219; 3851
BsuRI	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1369; 1705; 1847; 2502; 2508; 2517; 2560; 2647; 2821; 3212; 3239; 3748; 3805; 3838; 4183; 4617; 4635; 4646
BsuTUI	AT!CGAT	1	2579
BtgI	C!CRYGG	7	360; 636; 699; 1289; 1363; 2468; 3171
BtgZI	GCGATG!NNNNNNNNNN!	6	686; 731; 779; 926; 1856; 3191
BtgZI	!NNNNNNNNNNNNNNNCATCGC	3	334; 3010; 3354
BthCI	GCNG!C	35	620; 623; 866; 959; 1127; 1181; 1184; 1301; 1518; 2037; 2059; 2073; 2511; 2650; 2702; 2713; 2803; 2808; 2845; 2886; 2973; 2979; 3215; 3311; 3352; 3366; 3480; 3819; 3834; 4045; 4251; 4254; 4319; 4462; 4617
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTG!NN!	0	
BtsI	!CACTGC	2	1047; 1578
BtsCI	GGATG!NN!	8	684; 744; 1008; 1245; 2599; 3056; 3081; 3535
BtsCI	!CATCC	2	695; 2425
BtuMI	TCG!CGA	0	
BveI	ACCTGC!NNNN!	2	3007; 3457
BveI	!NNNNNNNNNGCAGGT	1	2626
Cac8I	GCN!NGC	32	86; 279; 593; 723; 868; 1122; 1286; 1367; 1958; 2001; 2015; 2288; 2307; 2360; 2379; 2633; 2819; 3038; 3104; 3110; 3142; 3183; 3187; 3241; 3524; 3711; 3758; 3814; 3836; 4047; 4607; 4644
CaiI	CAG!NNN!CTG	2	3840; 4248
CciI	T!CATGA	2	2165; 3937
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 1143; 1176; 3028; 3033; 3231; 3372
CdiI	C!GATG	7	672; 717; 765; 873; 912; 1842; 3177
CdpI	GCGGAG!NNNNNNNNNNNNNNNNNNNNNNNNNN!	1	4611
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2400; 2442
CelII	GC!TNAGC	1	1231
CfoI	GCG!C	28	597; 625; 814; 893; 934; 1096; 1286; 1288; 2005; 2013; 2039; 2061; 2070; 2083; 2114; 2733; 2741; 2805; 2842; 3108; 3368; 3544; 3630; 4033; 4142; 4316; 4416; 4483
CfrI	Y!GGCCR	7	681; 1005; 1145; 2645; 2819; 3210; 3237
Cfr9I	C!CCGGG	1	1370
Cfr10I	R!CCGGY	7	600; 760; 1120; 1956; 3058; 3239; 3522
Cfr13I	G!GNCC	11	83; 276; 835; 1183; 1368; 1846; 3255; 3700; 3746; 3804; 3837
Cfr42I	CCGC!GG	2	702; 1366
ChaI	GATC!	26	589; 648; 1072; 1107; 1119; 1153; 1252; 1378; 1387; 1400; 2580; 2584; 2603; 2914; 2992; 3073; 3082; 3160; 3536; 3552; 3911; 3923; 4001; 4009; 4020; 4095
CjeI	CC!NNNNNNNGTNNNNNNNNNNNNNNNNNN!	5	1072; 2556; 3996; 4096; 4174
CjeI	!NNNNNNNNNAC!NNNNNNNTGG	7	64; 257; 2223; 2318; 3510; 4060; 4615



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2257; 2352; 3544; 4094; 4649
CjeI	!NNNNNNNNCCANNNNNNGT	5	1038; 2522; 3962; 4062; 4140
CjePI	CCANNNNNNTCNNNNNNNNNNNNN!	2	3996; 4174
CjePI	!NNNNNNNNGANNNNNNNTGG	4	257; 966; 3510; 4109
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	4	290; 999; 3543; 4142
CjePI	!NNNNNNNNCCANNNNNNTC	2	3963; 4141
Clal	AT!CGAT	1	2579
CpoI	CG!GWCCG	1	3255
CseI	GACGCNNNNN!	3	526; 3449; 3528
CseI	!NNNNNNNNNGCGTC	3	2072; 3967; 4545
CsiI	A!CCWGGT	1	2328
CspI	CG!GWCCG	1	3255
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 831; 963; 1056; 1203; 1360; 3044
Csp45I	TT!CGAA	2	1341; 3421
CspAI	A!CCGGT	1	600
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	2019; 3628
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	18	301; 361; 612; 867; 1212; 2166; 2306; 2378; 2469; 2610; 2955; 3141; 3172; 3198; 3554; 3938; 4658; 4709
CviJI	RG!CY	93	42; 84; 93; 277; 566; 683; 710; 836; 843; 863; 878; 978; 986; 992; 1007; 1075; 1085; 1147; 1184; 1217; 1230; 1268; 1320; 1326; 1332; 1338; 1369; 1408; 1518; 1685; 1705; 1847; 1928; 1942; 1956; 2237; 2278; 2350; 2473; 2502; 2508; 2517; 2525; 2548; 2560; 2566; 2647; 2664; 2672; 2699; 2724; 2808; 2817; 2821; 2845; 2883; 2959; 2976; 2995; 3058; 3102; 3112; 3129; 3212; 3239; 3243; 3280; 3303; 3319; 3499; 3526; 3587; 3709; 3748; 3805; 3812; 3819; 3838; 3849; 4100; 4129; 4172; 4183; 4248; 4327; 4352; 4357; 4403; 4493; 4591; 4617; 4635; 4646
CviKI-1	RG!CY	93	42; 84; 93; 277; 566; 683; 710; 836; 843; 863; 878; 978; 986; 992; 1007; 1075; 1085; 1147; 1184; 1217; 1230; 1268; 1320; 1326; 1332; 1338; 1369; 1408; 1518; 1685; 1705; 1847; 1928; 1942; 1956; 2237; 2278; 2350; 2473; 2502; 2508; 2517; 2525; 2548; 2560; 2566; 2647; 2664; 2672; 2699; 2724; 2808; 2817; 2821; 2845; 2883; 2959; 2976; 2995; 3058; 3102; 3112; 3129; 3212; 3239; 3243; 3280; 3303; 3319; 3499; 3526; 3587; 3709; 3748; 3805; 3812; 3819; 3838; 3849; 4100; 4129; 4172; 4183; 4248; 4327; 4352; 4357; 4403; 4493; 4591; 4617; 4635; 4646
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 831; 963; 1056; 1203; 1360; 3044
DdeI	C!TNAG	7	1231; 2219; 2521; 3402; 3851; 3974; 4383
DinI	GGC!GCC	3	624; 813; 2740
DpnI	GA!TC	26	587; 646; 1070; 1105; 1117; 1151; 1250; 1376; 1385; 1398; 2578; 2582; 2601; 2912; 2990; 3071; 3080; 3158; 3534; 3550; 3909; 3921; 3999; 4007; 4018; 4093
DpnII	!GATC	26	585; 644; 1068; 1103; 1115; 1149; 1248; 1374; 1383; 1396; 2576; 2580; 2599; 2910; 2988; 3069; 3078; 3156; 3532; 3548; 3907; 3919; 3997; 4005; 4016; 4091
DraI	TTT!AAA	3	1441; 3883; 3902
DraII	RG!GNCCY	1	3837
DraIII	CACNN!GTG	1	1855
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 854; 4219
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTT	0	
DrdI	GACNNN!NNGTC	4	1311; 1810; 2766; 4555
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	1311; 1810; 2766; 4555
EaeI	Y!GGCCR	7	681; 1005; 1145; 2645; 2819; 3210; 3237
EagI	C!GGCCG	1	2645
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	1084; 2206; 3083; 3293
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; 2206; 3083; 3293
EciI	GGCGGANNNNNNNNNN!	4	2239; 3268; 4455; 4601
EciI	!NNNNNNNNNTCCGCC	4	496; 2410; 2431; 2452
Ecl136II	GAG!CTC	1	1332
EclXI	C!GGCCG	1	2645
Eco24I	GRGCY!C	5	1334; 1371; 1930; 3104; 3814
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1270; 3728
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3255; 3700
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	2645
Eco57I	CTGAAGNNNNNNNNNNNNNN!	4	865; 1108; 2885; 3317
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	675; 4115
Eco72I	CAC!GTG	3	1011; 1194; 1224
Eco81I	CC!TNAGG	2	2219; 3851
Eco88I	C!YCGRG	4	838; 1198; 1327; 1370
Eco91I	G!GTNACC	2	792; 939
Eco105I	TAC!GTA	1	340
Eco130I	C!CWGGG	5	360; 2468; 2561; 3171; 3576
Eco147I	AGG!CCT	1	2560
EcoHI	!CCSGG	6	1369; 1370; 2741; 2901; 3514; 4278
EcoICRI	GAG!CTC	1	1332
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	7	801; 865; 1048; 1108; 2885; 3317; 3579
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	675; 3522; 4115
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	2	792; 939
Eco0109I	RG!GNCCY	1	3837
EcoRI	G!AATTC	1	1343
EcoRII	!CCWGG	14	88; 281; 778; 788; 986; 2273; 2328; 2345; 3124; 3703; 3806; 4496; 4509; 4630
EcoRV	GAT!ATC	0	
EcoT14I	C!CWGGG	5	360; 2468; 2561; 3171; 3576
EcoT22I	ATGCA!T	3	2311; 2383; 4714
EcoT38I	GRGCY!C	5	1334; 1371; 1930; 3104; 3814
Eco53kl	GAG!CTC	1	1332
EgeI	GGC!GCC	3	624; 813; 2740
EheI	GGC!GCC	3	624; 813; 2740
ErhI	C!CWGGG	5	360; 2468; 2561; 3171; 3576
EsaBC3I	TC!GA	16	906; 948; 1329; 1342; 1355; 1889; 2580; 2853; 3009; 3033; 3069; 3231; 3422; 3467; 3722; 4560
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	18	304; 364; 615; 870; 1215; 2169; 2309; 2381; 2472; 2613; 2958; 3144; 3175; 3201; 3557; 3941; 4661; 4712
Fail	YA!TR	55	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 868; 1213; 1264; 1401; 1411; 1477; 1522; 1727; 2155; 2167; 2298; 2307; 2370; 2379; 2403; 2470; 2494; 2611; 2675; 2956; 2981; 3142; 3173; 3199; 3271; 3487; 3555; 3633; 3685; 3846; 3863; 3865; 3867; 3939; 4217; 4406; 4522; 4595; 4659; 4710
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	1113; 3079
FalI	!NNNNNNNNAAGNNNNNCTT	2	1081; 3047
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2890; 3422; 3531
FaqI	!NNNNNNNNNNNNNGTCCC	4	2255; 2327; 2391; 3686
FatI	!CATG	18	300; 360; 611; 866; 1211; 2165; 2305; 2377; 2468; 2609; 2954; 3140; 3171; 3197; 3553; 3937; 4657; 4708
FauI	CCCGCNNNN!	9	93; 119; 286; 937; 2061; 2416; 2437; 3633; 3765
FauI	!NNNNNNNGCGGG	6	1358; 1992; 2862; 3399; 3537; 3684
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	1396
FblI	GT!MKAC	1	1354
FmuI	GGNC!C	11	86; 279; 838; 1186; 1371; 1849; 3258; 3703; 3749; 3807; 3840

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; 1516; 2035; 2057; 2071; 2509; 2648; 2700; 2711; 2801; 2806; 2843; 2884; 2971; 2977; 3213; 3309; 3350; 3364; 3478; 3817; 3832; 4043; 4249; 4252; 4317; 4460; 4615
FokI	GGATGNNNNNNNNN!	8	691; 751; 1015; 1252; 2606; 3063; 3088; 3542
FokI	!NNNNNNNNNNNNNNCATCC	2	682; 2412
FriOI	GRGCY!C	5	1334; 1371; 1930; 3104; 3814
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2841
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1387; 1588; 2006; 2562; 3577; 3911; 4164
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; 1376; 1391; 1422; 1461; 1475; 1616; 1711; 1735; 1758; 1781; 1799; 1821; 1842; 1861; 1880; 1909; 1930; 1944; 1970; 2058; 2084; 2133; 2174; 2192; 2231; 2247; 2285; 2342; 2357; 2414; 2434; 2448; 2465; 2479; 2516; 2531; 2574; 2657; 2724; 2755; 2775; 2790; 2835; 2849; 2915; 2929; 2948; 2964; 3005; 3025; 3072; 3122; 3138; 3158; 3183; 3203; 3226; 3253; 3271; 3297; 3337; 3363; 3387; 3443; 3457; 3485; 3528; 3549; 3584; 3628; 3716; 3740; 3762; 3782; 3798; 3819; 3833; 3852; 3936; 3956; 3984; 3999; 4033; 4075; 4102; 4117; 4162; 4186; 4200; 4222; 4248; 4268; 4292; 4318; 4366; 4385; 4404; 4430; 4465; 4510; 4540; 4554; 4605; 4619; 4644; 4660; 4681; 4710
FspEI	!NNNNNNNNNNNNNNNGG	129	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; 1342; 1366; 1410; 1510; 1579; 1687; 1736; 1758; 1786; 1822; 1867; 1896; 1932; 1951; 1979; 1999; 2062; 2085; 2193; 2225; 2243; 2272; 2315; 2344; 2455; 2484; 2527; 2548; 2576; 2609; 2629; 2654; 2681; 2706; 2728; 2756; 2782; 2803; 2854; 2875; 2893; 2941; 2977; 3033; 3058; 3082; 3111; 3134; 3158; 3184; 3206; 3225; 3250; 3290; 3326; 3391; 3476; 3500; 3529; 3563; 3584; 3604; 3649; 3676; 3695; 3728; 3780; 3811; 3838; 3890; 3988; 4059; 4104; 4165; 4230; 4264; 4290; 4308; 4344; 4414; 4437; 4459; 4483; 4516; 4564; 4599; 4617; 4674
Fsp4HI	GC!NGC	35	618; 621; 864; 957; 1125; 1179; 1182; 1299; 1516; 2035; 2057; 2071; 2509; 2648; 2700; 2711; 2801; 2806; 2843; 2884; 2971; 2977; 3213; 3309; 3350; 3364; 3478; 3817; 3832; 4043; 4249; 4252; 4317; 4460; 4615
GdiII	C!GGCCR	1	2645
GdiII	Y!GGCCG	4	1145; 2645; 3210; 3237
GlaI	GC!GC	28	596; 624; 813; 892; 933; 1095; 1285; 1287; 2004; 2012; 2038; 2060; 2069; 2082; 2113; 2732; 2740; 2804; 2841; 3107; 3367; 3543; 3629; 4032; 4141; 4315; 4415; 4482
GluI	GC!NGC	35	618; 621; 864; 957; 1125; 1179; 1182; 1299; 1516; 2035; 2057; 2071; 2509; 2648; 2700; 2711; 2801; 2806; 2843; 2884; 2971; 2977; 3213; 3309; 3350; 3364; 3478; 3817; 3832; 4043; 4249; 4252; 4317; 4460; 4615
GsaI	CCCAG!C	3	2286; 2358; 4357
GsaI	GCTGG!G	2	1018; 3247
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	801; 1048; 3579
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3522
HaeI	WGG!CCW	9	683; 986; 1007; 1075; 2560; 2821; 4183; 4635; 4646
HaeII	RGCGC!Y	8	598; 626; 815; 1097; 2006; 2014; 2742; 4417
HaeIII	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1369; 1705; 1847; 2502; 2508; 2517; 2560; 2647; 2821; 3212; 3239; 3748; 3805; 3838; 4183; 4617; 4635; 4646
HaeIV	GAYNNNNNNRTCNNNNNNNNNNNNNN!	2	1414; 2935
HaeIV	!NNNNNNNNNGAYNNNNNNRTCC	2	1380; 2901
HaeIV	GAYNNNNNNRTCNNNNNNNNNNNNNN!	2	1413; 2934
HaeIV	!NNNNNNNGAYNNNNNNRTCC	2	1382; 2903
HapII	C!CGG	21	601; 761; 1121; 1371; 1381; 1957; 2644; 2721; 2743; 2771; 2902; 2992; 3059; 3240; 3515; 3523; 3615; 4089; 4279; 4305; 4452
HgaI	GACGCNNNNN!	3	526; 3449; 3528

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HgaI	!NNNNNNNNNGCGTC	3	2072; 3967; 4545
HhaI	GCG!C	28	597; 625; 814; 893; 934; 1096; 1286; 1288; 2005; 2013; 2039; 2061; 2070; 2083; 2114; 2733; 2741; 2805; 2842; 3108; 3368; 3544; 3630; 4033; 4142; 4316; 4416; 4483
Hin1I	GR!CGYC	9	122; 175; 258; 444; 623; 812; 2739; 3441; 3520
Hin1III	CATG!	18	304; 364; 615; 870; 1215; 2169; 2309; 2381; 2472; 2613; 2958; 3144; 3175; 3201; 3557; 3941; 4661; 4712
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1413; 2934
Hin4I	!NNNNNNNGABNNNNNRTC	3	1381; 2902; 2932
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1413; 2934; 2964
Hin4I	!NNNNNNNGAYNNNNNVTC	2	1381; 2902
Hin6I	G!CGC	28	595; 623; 812; 891; 932; 1094; 1284; 1286; 2003; 2011; 2037; 2059; 2068; 2081; 2112; 2731; 2739; 2803; 2840; 3106; 3366; 3542; 3628; 4031; 4140; 4314; 4414; 4481
HinP1I	G!CGC	28	595; 623; 812; 891; 932; 1094; 1284; 1286; 2003; 2011; 2037; 2059; 2068; 2081; 2112; 2731; 2739; 2803; 2840; 3106; 3366; 3542; 3628; 4031; 4140; 4314; 4414; 4481
HincII	GTY!RAC	2	1355; 1502
HindII	GTY!RAC	2	1355; 1502
HindIII	A!AGCTT	1	1336
HinfI	G!ANTC	12	410; 1023; 1782; 1804; 2214; 3224; 3358; 3410; 3468; 3505; 4287; 4683
HpaI	GTT!AAC	1	1502
HpaII	C!CGG	21	601; 761; 1121; 1371; 1381; 1957; 2644; 2721; 2743; 2771; 2902; 2992; 3059; 3240; 3515; 3523; 3615; 4089; 4279; 4305; 4452
HphI	GGTGANNNNNNN!	5	376; 804; 951; 3810; 3926
HphI	!NNNNNNNTCACC	5	891; 1032; 1243; 1856; 2917
Hpy8I	GTN!NAC	11	201; 539; 577; 963; 1191; 1355; 1502; 1786; 1803; 1858; 4345
Hpy99I	CGWCG!	8	1359; 2829; 2857; 3151; 3166; 3443; 3828; 4561
Hpy166II	GTN!NAC	11	201; 539; 577; 963; 1191; 1355; 1502; 1786; 1803; 1858; 4345
Hpy188I	TCN!GA	11	585; 1913; 2522; 2706; 3050; 3403; 3504; 3983; 4117; 4470; 4548
Hpy188III	TC!NNGA	25	924; 948; 996; 1027; 1101; 1387; 2166; 2218; 2531; 2584; 2757; 3073; 3082; 3165; 3221; 3265; 3355; 3388; 3457; 3938; 4012; 4095; 4193; 4291; 4425
HpyAV	CCTCANNNNNN!	7	699; 912; 954; 1107; 3384; 3491; 4170
HpyAV	!NNNNNGAAGG	9	840; 993; 1972; 2867; 3596; 3612; 3795; 4112; 4422
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 1281; 1359; 1830; 3119; 3235; 3343; 3666; 4157; 4627; 4698
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 653; 881; 1010; 1193; 1223; 1799; 1811; 1854; 1964; 2855; 3042; 3823; 3956
HpyCH4V	TG!CA	21	755; 866; 885; 1191; 1350; 1488; 1515; 1583; 2300; 2309; 2372; 2381; 2496; 2572; 2631; 2790; 2965; 2979; 4049; 4345; 4712
HpyF3I	C!TNAG	7	1231; 2219; 2521; 3402; 3851; 3974; 4383
HpyF10VI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 707; 722; 761; 818; 1091; 1130; 1966; 1996; 2023; 2065; 2306; 2378; 2429; 2508; 2730; 2814; 2837; 2976; 3099; 3182; 3449; 3636; 3840; 4039; 4611
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 623; 812; 2739; 3441; 3520
Hsp92II	CATG!	18	304; 364; 615; 870; 1215; 2169; 2309; 2381; 2472; 2613; 2958; 3144; 3175; 3201; 3557; 3941; 4661; 4712
HspAI	G!CGC	28	595; 623; 812; 891; 932; 1094; 1284; 1286; 2003; 2011; 2037; 2059; 2068; 2081; 2112; 2731; 2739; 2803; 2840; 3106; 3366; 3542; 3628; 4031; 4140; 4314; 4414; 4481
KasI	G!GCGCC	3	622; 811; 2738
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	1363
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	2	702; 1366
Ksp22I	T!GATCA	1	1396
KspAI	GTT!AAC	1	1502
Kzo9I	!GATC	26	585; 644; 1068; 1103; 1115; 1149; 1248; 1374; 1383; 1396; 2576; 2580; 2599; 2910; 2988; 3069; 3078; 3156; 3532; 3548; 3907; 3919; 3997; 4005; 4016; 4091
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	3	1084; 3083; 3293
LpnI	RGC!GCV	8	596; 624; 813; 1095; 2004; 2012; 2740; 4415

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; 1384; 1476; 1781; 1970; 2193; 2231; 2247; 2287; 2342; 2359; 2459; 2544; 2657; 2734; 2756; 2779; 2915; 2929; 2948; 3005; 3072; 3122; 3138; 3195; 3253; 3462; 3528; 3552; 3628; 3717; 3820; 3853; 4084; 4102; 4248; 4268; 4292; 4318; 4367; 4465; 4510; 4540; 4619; 4644; 4681
LpnPI	!NNNNNNNNNNNNNCHGG	53	75; 268; 552; 586; 746; 765; 871; 973; 1000; 1047; 1106; 1356; 1822; 1942; 1999; 2062; 2260; 2272; 2332; 2344; 2576; 2621; 2664; 2706; 2728; 2756; 2803; 2865; 2887; 2977; 3044; 3067; 3111; 3206; 3225; 3250; 3399; 3500; 3543; 3600; 3690; 3793; 3820; 3838; 4074; 4111; 4264; 4290; 4430; 4448; 4483; 4564; 4617
Lsp1109I	GCAGCNNNNNNNN!	9	629; 968; 1136; 1527; 2812; 2854; 3375; 3828; 4328
Lsp1109I	!NNNNNNNNNNNGCTGC	7	850; 2021; 2686; 2870; 2963; 4029; 4235
LweI	GCATCNNNNN!	7	704; 1555; 2318; 2390; 3038; 3102; 3377
LweI	!NNNNNNNNNGATGC	7	357; 708; 729; 2697; 2952; 3168; 4560
MabI	A!CCWGGT	1	2328
MaeI	C!TAG	8	592; 1387; 1588; 2006; 2562; 3577; 3911; 4164
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 653; 881; 1010; 1193; 1223; 1799; 1811; 1854; 1964; 2855; 3042; 3823; 3956
MaeIII	!GTNAC	15	61; 148; 497; 792; 939; 1242; 1527; 2028; 2040; 2859; 3165; 3855; 4121; 4237; 4300
MalI	GA!TC	26	587; 646; 1070; 1105; 1117; 1151; 1250; 1376; 1385; 1398; 2578; 2582; 2601; 2912; 2990; 3071; 3080; 3158; 3534; 3550; 3909; 3921; 3999; 4007; 4018; 4093
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2163; 3352
MbiI	GAG!CGG	2	1999; 3406
MboI	!GATC	26	585; 644; 1068; 1103; 1115; 1149; 1248; 1374; 1383; 1396; 2576; 2580; 2599; 2910; 2988; 3069; 3078; 3156; 3532; 3548; 3907; 3919; 3997; 4005; 4016; 4091
MboII	GAAGANNNNNNNN!	6	1101; 1995; 2223; 3100; 3310; 3929
MboII	!NNNNNNNTCTTC	4	3390; 3557; 3757; 4000
McaTI	GCGC!GC	1	1287
MfeI	C!AATTG	1	1489
MflI	R!GATCY	12	585; 644; 1103; 1374; 1383; 2910; 3156; 3548; 3907; 3919; 4005; 4016
MhII	GDGCH!C	15	773; 779; 787; 1193; 1199; 1334; 1371; 1930; 2685; 2778; 2852; 3042; 3104; 3814; 4347
MisI	TGG!CCA	3	683; 1007; 2821
MluI	A!CGCGT	1	1625
MluNI	TGG!CCA	3	683; 1007; 2821
MlyI	GAGTCNNNNN!	2	1791; 2223
MlyI	!NNNNNGACTC	4	404; 1798; 3404; 4281
Mly113I	GG!CGCC	3	623; 812; 2739
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	1	1832
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4264; 4448
MnII	CCTCNNNNNNN!	7	1458; 2522; 3340; 3546; 3860; 4230; 4554
MnII	!NNNNNNGAGG	16	541; 660; 900; 930; 1418; 1883; 2214; 2492; 2535; 2550; 2590; 2654; 2790; 3147; 3577; 4480
Mph1103I	ATGCA!T	3	2311; 2383; 4714
MreI	CG!CCGCGG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	1120; 1956; 3239; 3522
MroXI	GAANN!NNTTC	1	850
MscI	TGG!CCA	3	683; 1007; 2821
MseI	T!TAA	15	7; 1440; 1501; 1622; 1643; 1654; 1666; 1677; 1694; 1792; 2063; 3882; 3896; 3901; 3953
MslI	CAYNN!NNRTG	4	365; 790; 1159; 3176
MspI	C!CGG	21	601; 761; 1121; 1371; 1381; 1957; 2644; 2721; 2743; 2771; 2902; 2992; 3059; 3240; 3515; 3523; 3615; 4089; 4279; 4305; 4452
Msp20I	TGG!CCA	3	683; 1007; 2821
MspAII	CMG!CKG	7	620; 701; 1365; 2237; 2845; 4074; 4319
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
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; 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; 1328; 1341; 1354; 1376; 1393; 1407; 1422; 1446; 1463; 1476; 1517; 1531; 1544; 1562; 1600; 1615; 1633; 1674; 1698; 1718; 1736; 1757; 1780; 1812; 1827; 1849; 1867; 1880; 1901; 1918; 1931; 1944; 1960; 1973; 2003; 2018; 2043; 2061; 2074; 2089; 2113; 2127; 2151; 2176; 2192; 2230; 2246; 2285; 2299; 2313; 2341; 2357; 2371; 2385; 2414; 2427; 2448; 2457; 2479; 2509; 2525; 2543; 2573; 2596; 2620; 2644; 2663; 2691; 2717; 2733; 2746; 2769; 2783; 2803; 2816; 2830; 2849; 2863; 2876; 2892; 2907; 2920; 2936; 2951; 2967; 2992; 3011; 3027; 3040; 3053; 3071; 3085; 3099; 3115; 3137; 3153; 3172; 3194; 3210; 3233; 3252; 3266; 3282; 3296; 3316; 3332; 3345; 3367; 3400; 3414; 3434; 3447; 3461; 3515; 3528; 3551; 3564; 3583; 3600; 3627; 3663; 3696; 3715; 3740; 3761; 3788; 3801; 3818; 3832; 3847; 3863; 3923; 3948; 3964; 3986; 3999; 4013; 4044; 4058; 4083; 4101; 4116; 4129; 4148; 4161; 4176; 4205; 4224; 4242; 4267; 4282; 4301; 4317; 4336; 4354; 4370; 4384; 4403; 4430; 4453; 4475; 4494; 4509; 4522; 4539; 4559; 4586; 4599; 4618; 4643; 4666; 4680; 4693; 4710
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; 1313; 1333; 1350; 1367; 1391; 1420; 1449; 1491; 1574; 1612; 1636; 1659; 1688; 1732; 1754; 1786; 1822; 1839; 1860; 1897; 1917; 1934; 1951; 1986; 2004; 2022; 2039; 2063; 2085; 2112; 2140; 2166; 2204; 2225; 2242; 2260; 2283; 2304; 2332; 2355; 2376; 2394; 2415; 2432; 2455; 2479; 2499; 2517; 2539; 2570; 2592; 2618; 2637; 2654; 2682; 2701; 2720; 2738; 2756; 2777; 2799; 2823; 2856; 2876; 2894; 2915; 2941; 2968; 2985; 3002; 3019; 3045; 3067; 3089; 3107; 3127; 3146; 3168; 3206; 3226; 3250; 3270; 3290; 3317; 3341; 3374; 3393; 3421; 3443; 3472; 3500; 3525; 3544; 3563; 3584; 3601; 3618; 3649; 3676; 3696; 3719; 3739; 3776; 3793; 3812; 3838; 3858; 3897; 3924; 3943; 3961; 3998; 4016; 4057; 4075; 4101; 4118; 4150; 4179; 4207; 4228; 4251; 4270; 4291; 4309; 4326; 4344; 4370; 4391; 4411; 4431; 4449; 4470; 4496; 4513; 4532; 4551; 4580; 4599; 4617; 4636; 4654; 4672; 4695
MspR9I	CC!NGG	20	90; 283; 780; 790; 988; 1371; 1372; 2275; 2330; 2347; 2743; 2903; 3126; 3516; 3705; 3808; 4280; 4498; 4511; 4632
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1489
MvaI	CC!WGG	14	90; 283; 780; 790; 988; 2275; 2330; 2347; 3126; 3705; 3808; 4498; 4511; 4632
Mva1269I	GAATGCN!	1	1490
Mva1269I	G!CATTC	1	1583
MvnI	CG!CG	21	60; 701; 932; 971; 1256; 1286; 1365; 1627; 1663; 2039; 2059; 2083; 2114; 2805; 3106; 3544; 3628; 3691; 3760; 4033; 4614
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 707; 722; 761; 818; 1091; 1130; 1966; 1996; 2023; 2065; 2306; 2378; 2429; 2508; 2730; 2814; 2837; 2976; 3099; 3182; 3449; 3636; 3840; 4039; 4611
NaeI	GCC!GGC	4	1122; 1958; 3241; 3524
NarI	GG!CGCC	3	623; 812; 2739
NciI	CC!SGG	6	1371; 1372; 2743; 2903; 3516; 4280
NcoI	C!CATGG	3	360; 2468; 3171
NdeI	CA!TATG	1	234
NdeII	!GATC	26	585; 644; 1068; 1103; 1115; 1149; 1248; 1374; 1383; 1396; 2576; 2580; 2599; 2910; 2988; 3069; 3078; 3156; 3532; 3548; 3907; 3919; 3997; 4005; 4016; 4091
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	2	280; 818
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	2	244; 782
NgoMIV	G!CCGGC	4	1120; 1956; 3239; 3522

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NheI	G!CTAGC	1	591
NlaIII	CATG!	18	304; 364; 615; 870; 1215; 2169; 2309; 2381; 2472; 2613; 2958; 3144; 3175; 3201; 3557; 3941; 4661; 4712
NlaIV	GGN!NCC	21	467; 624; 813; 837; 1185; 1361; 1369; 1376; 1894; 1915; 1927; 2118; 2279; 2351; 2740; 2775; 3623; 3702; 3747; 4590; 4629
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	921; 1571; 1886; 3478
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 4550
Nli3877I	CYCGR!G	4	842; 1202; 1331; 1374
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	960; 2528; 2964
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2493
NmeDI	RCCGGYNNNNNNNN!	7	612; 772; 1132; 1968; 3070; 3251; 3534
NmeDI	!NNNNNNNNNNNNRCCGGY	7	587; 747; 1107; 1943; 3045; 3226; 3509
NmuCI	!GTSAC	6	792; 939; 1242; 2028; 2859; 3165
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2841
NsiI	ATGCA!T	3	2311; 2383; 4714
NspI	RCATG!Y	5	870; 2309; 2381; 3144; 4661
NspV	TT!CGAA	2	1341; 3421
OliI	CACNN!NNGTG	1	790
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 833; 965; 1058; 1205; 1362; 3046
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	870; 2309; 2381; 3144
PaeR7I	C!TCGAG	1	1327
PagI	T!CATGA	2	2165; 3937
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3704; 3807
PauI	G!CGCGC	1	1284
PceI	AGG!CCT	1	2560
PciI	A!CATGT	1	4657
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	1084; 3083; 3293
PcsI	WCGNNNN!NNNCGW	6	3033; 3110; 3353; 3427; 3820; 4338
PctI	GAATGCN!	1	1490
PctI	G!CATTC	1	1583
PdiI	GCC!GGC	4	1122; 1958; 3241; 3524
PdmI	GAANN!NNTTC	1	850
PfeI	G!AWTC	6	1023; 3224; 3358; 3468; 3505; 4683
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2857
PfIMI	CCANNNN!NTGG	1	1014
PfoI	T!CCNGGA	1	3514
PhoI	GG!CC	28	84; 277; 683; 836; 986; 1007; 1075; 1085; 1147; 1184; 1369; 1705; 1847; 2502; 2508; 2517; 2560; 2647; 2821; 3212; 3239; 3748; 3805; 3838; 4183; 4617; 4635; 4646
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3120
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2685; 2940
PleI	GAGTCNNNN!	2	1790; 2222
PleI	!NNNNNGACTC	4	404; 1798; 3404; 4281
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	1821
PpiI	!NNNNNNNGAGNNNNNGTTC	1	3951
PpiI	GAGNNNNGTTCNNNNNNNNNNNN!	1	3983
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1789
PpsI	GAGTCNNNN!	2	1790; 2222
PpsI	!NNNNNGACTC	4	404; 1798; 3404; 4281
Ppu10I	A!TGCAT	3	2307; 2379; 4710
Ppu21I	YAC!GTR	8	340; 654; 882; 1011; 1194; 1224; 1855; 3043
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4657

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1522; 1727
Psp03I	GGWC!C	2	3258; 3703
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	14	88; 281; 778; 788; 986; 2273; 2328; 2345; 3124; 3703; 3806; 4496; 4509; 4630
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1334
PspCI	CAC!GTG	3	1011; 1194; 1224
PspEI	G!GTNACC	2	792; 939
PspGI	!CCWGG	14	88; 281; 778; 788; 986; 2273; 2328; 2345; 3124; 3703; 3806; 4496; 4509; 4630
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	21	467; 624; 813; 837; 1185; 1361; 1369; 1376; 1894; 1915; 1927; 2118; 2279; 2351; 2740; 2775; 3623; 3702; 3747; 4590; 4629
PspOMI	G!GGCCC	1	1367
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	4	125; 839; 2469; 3468
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2871
PspPI	G!GNCC	11	83; 276; 835; 1183; 1368; 1846; 3255; 3700; 3746; 3804; 3837
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	2292; 2364; 3870
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	3	1048; 2205; 3400
PspXI	VC!TCGAGB	1	1327
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3840
PstI	CTGCA!G	1	1352
PstNI	CAGNNN!CTG	2	3840; 4248
PsuI	R!GATCY	12	585; 644; 1103; 1374; 1383; 2910; 3156; 3548; 3907; 3919; 4005; 4016
Psyl	GACN!NNGTC	1	2857
PteI	G!CGCGC	1	1284
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2237; 2845
RcaI	T!CATGA	2	2165; 3937
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3254
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	1468
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 832; 964; 1057; 1204; 1361; 3045
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 831; 963; 1056; 1203; 1360; 3044
RseI	CAYNN!NNRTG	4	365; 790; 1159; 3176
RsrII	CG!GWCCG	1	3255
Rsr2I	CG!GWCCG	1	3255
SacI	GAGCT!C	1	1334
SacII	CCGC!GG	2	702; 1366
SalI	G!TCGAC	1	1353
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	1084; 3083; 3293
SaqAI	T!TAA	15	7; 1440; 1501; 1622; 1643; 1654; 1666; 1677; 1694; 1792; 2063; 3882; 3896; 3901; 3953



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SatI	GC!NGC	35	618; 621; 864; 957; 1125; 1179; 1182; 1299; 1516; 2035; 2057; 2071; 2509; 2648; 2700; 2711; 2801; 2806; 2843; 2884; 2971; 2977; 3213; 3309; 3350; 3364; 3478; 3817; 3832; 4043; 4249; 4252; 4317; 4460; 4615
Sau96I	G!GNCC	11	83; 276; 835; 1183; 1368; 1846; 3255; 3700; 3746; 3804; 3837
Sau3AI	!GATC	26	585; 644; 1068; 1103; 1115; 1149; 1248; 1374; 1383; 1396; 2576; 2580; 2599; 2910; 2988; 3069; 3078; 3156; 3532; 3548; 3907; 3919; 3997; 4005; 4016; 4091
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1791; 2223
SchI	!NNNNNGACTC	4	404; 1798; 3404; 4281
SciI	CTC!GAG	1	1329
ScrFI	CC!NGG	20	90; 283; 780; 790; 988; 1371; 1372; 2275; 2330; 2347; 2743; 2903; 3126; 3516; 3705; 3808; 4280; 4498; 4511; 4632
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	5	912; 2317; 2389; 2558; 4500
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2894; 3379
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	15	773; 779; 787; 1193; 1199; 1334; 1371; 1930; 2685; 2778; 2852; 3042; 3104; 3814; 4347
SelI	!CGCG	21	58; 699; 930; 969; 1254; 1284; 1363; 1625; 1661; 2037; 2057; 2081; 2112; 2803; 3104; 3542; 3626; 3689; 3758; 4031; 4612
SetI	ASST!	71	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; 1322; 1328; 1334; 1340; 1429; 1450; 1459; 1471; 1520; 1687; 1802; 1814; 1857; 1894; 1944; 1967; 2091; 2239; 2334; 2527; 2640; 2768; 2847; 2858; 2930; 3001; 3045; 3305; 3451; 3495; 3826; 3857; 3916; 3959; 4102; 4123; 4222; 4359; 4374; 4393; 4405; 4449; 4495; 4546
SexAI	A!CCWGGT	1	2328
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	704; 1555; 2318; 2390; 3038; 3102; 3377
SfaNI	!NNNNNNNNNGATGC	7	357; 708; 729; 2697; 2952; 3168; 4560
SfcI	C!TRYAG	5	1321; 1348; 2074; 4201; 4392
SfiI	GGCCNNNN!NGGCC	1	2514
SfoI	GGC!GCC	3	624; 813; 2740
Sfr274I	C!TCGAG	1	1327
Sfr303I	CCGC!GG	2	702; 1366
SfuI	TT!CGAA	2	1341; 3421
SgeI	CNNGNNNNNNNNN!	192	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; 1329; 1347; 1376; 1393; 1446; 1475; 1517; 1600; 1638; 1674; 1758; 1780; 1812; 1849; 1867; 1886; 1901; 1943; 1960; 1977; 2012; 2026; 2043; 2065; 2089; 2113; 2178; 2192; 2230; 2246; 2286; 2299; 2318; 2341; 2358; 2371; 2390; 2420; 2441; 2458; 2481; 2516; 2543; 2574; 2596; 2622; 2644; 2663; 2691; 2727; 2746; 2769; 2783; 2803; 2816; 2830; 2849; 2863; 2882; 2914; 2928; 2941; 2967; 2998; 3011; 3028; 3045; 3059; 3076; 3094; 3109; 3137; 3153; 3172; 3194; 3210; 3233; 3252; 3277; 3296; 3316; 3343; 3367; 3400; 3419; 3447; 3461; 3527; 3551; 3566; 3589; 3610; 3627; 3675; 3702; 3716; 3745; 3769; 3802; 3819; 3839; 3852; 3865; 3923; 3950; 3969; 3999; 4024; 4044; 4058; 4083; 4101; 4138; 4176; 4205; 4233; 4247; 4267; 4282; 4303; 4317; 4336; 4354; 4370; 4410; 4430; 4457; 4475; 4496; 4509; 4522; 4539; 4563; 4586; 4618; 4643; 4670; 4692

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; 1313; 1350; 1367; 1420; 1449; 1491; 1574; 1612; 1648; 1732; 1754; 1786; 1823; 1841; 1860; 1917; 1934; 1951; 1986; 2004; 2024; 2044; 2063; 2087; 2152; 2204; 2260; 2292; 2315; 2332; 2364; 2394; 2415; 2432; 2455; 2490; 2517; 2548; 2570; 2596; 2618; 2637; 2665; 2701; 2720; 2743; 2764; 2782; 2799; 2823; 2856; 2888; 2915; 2941; 2972; 3002; 3019; 3045; 3068; 3089; 3111; 3131; 3151; 3168; 3207; 3226; 3251; 3270; 3290; 3317; 3341; 3374; 3393; 3421; 3443; 3501; 3525; 3544; 3563; 3584; 3601; 3649; 3676; 3696; 3719; 3743; 3776; 3793; 3813; 3839; 3897; 3924; 3943; 3973; 3998; 4018; 4057; 4075; 4112; 4150; 4179; 4207; 4228; 4256; 4277; 4310; 4328; 4384; 4404; 4431; 4449; 4470; 4496; 4513; 4537; 4560; 4592; 4617; 4644; 4666; 4695
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	1	760
SgrBI	CCGC!GG	2	702; 1366
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1886; 3673; 4466
SimI	!GACCC	5	106; 926; 3167; 3735; 3983
SinI	G!GWCC	2	3255; 3700
SlaI	C!TCGAG	1	1327
SmaI	CCC!GGG	1	1372
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	365; 790; 1159; 3176
SmlI	C!TYRAG	6	1327; 1333; 3130; 4012; 4289; 4551
SmoI	C!TYRAG	6	1327; 1333; 3130; 4012; 4289; 4551
SmuI	CCCGCNNNN!	9	93; 119; 286; 937; 2061; 2416; 2437; 3633; 3765
SmuI	!NNNNNNGCGGG	6	1358; 1992; 2862; 3399; 3537; 3684
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	870; 2309; 2381; 3144
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	13	18; 918; 1035; 1343; 1489; 1553; 1631; 1657; 1668; 2315; 2387; 2479; 3897
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2560
SsiI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 699; 930; 1254; 1299; 1363; 2054; 2057; 2071; 2161; 2409; 2421; 2430; 2442; 2452; 2463; 2509; 2648; 2711; 3213; 3258; 3324; 3350; 3475; 3478; 3626; 3758; 4065; 4209; 4705
SsiI	G!CGG	28	370; 403; 528; 620; 701; 1178; 1181; 1365; 1999; 2026; 2114; 2224; 2805; 2869; 2970; 2973; 3253; 3308; 3406; 3544; 3691; 3831; 4074; 4319; 4440; 4459; 4586; 4614
SspI	AAT!ATT	2	1647; 2200
SspDI	G!GCGCC	3	622; 811; 2738
SspD5I	GGTGANNNNNNNN!	5	376; 804; 951; 3810; 3926
SspD5I	!NNNNNNNNNTCACC	5	890; 1031; 1242; 1855; 2916
SstI	GAGCT!C	1	1334
SstII	CCGC!GG	2	702; 1366
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 779; 845; 878; 936; 1193; 1205; 1377; 1938; 2060; 2415; 2436; 2749; 3152; 3291; 3362; 3632; 3764; 3994; 4432
Sth132I	!NNNNNNNNNCGGG	19	15; 407; 470; 1357; 1939; 1991; 2092; 2819; 2861; 2894; 3398; 3507; 3536; 3683; 3787; 3818; 4271; 4315; 4523
Sth302II	CC!GG	21	602; 762; 1122; 1372; 1382; 1958; 2645; 2722; 2744; 2772; 2903; 2993; 3060; 3241; 3516; 3524; 3616; 4090; 4280; 4306; 4453
StrI	C!TCGAG	1	1327
StsI	GGATGNNNNNNNNNN!	8	692; 752; 1016; 1253; 2607; 3064; 3089; 3543
StsI	!NNNNNNNNNNNNNNCATCC	2	681; 2411

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StuI	AGG CCT	1	2560
StyI	C CWGG	5	360; 2468; 2561; 3171; 3576
StyD4I	!CCNGG	20	88; 281; 778; 788; 986; 1369; 1370; 2273; 2328; 2345; 2741; 2901; 3124; 3514; 3703; 3806; 4278; 4496; 4509; 4630
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 1281; 1359; 1830; 3119; 3235; 3343; 3666; 4157; 4627; 4698
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 656; 884; 1013; 1196; 1226; 1802; 1814; 1857; 1967; 2858; 3045; 3826; 3959
TaqI	T!CGA	16	905; 947; 1328; 1341; 1354; 1888; 2579; 2852; 3008; 3032; 3068; 3230; 3421; 3466; 3721; 4559
TaqII	GACCGANNNNNNNNNN!	4	1261; 1759; 2776; 3444
TaqII	!NNNNNNNNNTCGGTC	1	3688
TaqII	CACCCANNNNNNNNNN!	1	1171
TaqII	!NNNNNNNNNTGGGTG	3	172; 2643; 3235
TasI	!AATT	13	18; 918; 1035; 1343; 1489; 1553; 1631; 1657; 1668; 2315; 2387; 2479; 3897
TatI	W!GTACW	6	217; 297; 330; 381; 962; 1055
TauI	GCSG!C	19	623; 1181; 1184; 1301; 2059; 2073; 2511; 2650; 2713; 2808; 2973; 2976; 3215; 3311; 3352; 3480; 3834; 4462; 4617
TfiI	G!AWTC	6	1023; 3224; 3358; 3468; 3505; 4683
TliI	C!TCGAG	1	1327
TruII	T!TAA	15	7; 1440; 1501; 1622; 1643; 1654; 1666; 1677; 1694; 1792; 2063; 3882; 3896; 3901; 3953
Tru9I	T!TAA	15	7; 1440; 1501; 1622; 1643; 1654; 1666; 1677; 1694; 1792; 2063; 3882; 3896; 3901; 3953
TscAI	CASTGNN!	7	823; 1054; 1585; 2868; 3978; 4249; 4262
TseI	G!CWGC	17	617; 863; 956; 1124; 1515; 2034; 2699; 2800; 2842; 2883; 2976; 3363; 3816; 4042; 4248; 4251; 4316
TsoI	TARCCANNNNNNNNNN!	2	1711; 2058
TsoI	!NNNNNNNNNTGGYTA	3	866; 1516; 3268
Tsp45I	!GTSAC	6	792; 939; 1242; 2028; 2859; 3165
Tsp509I	!AATT	13	18; 918; 1035; 1343; 1489; 1553; 1631; 1657; 1668; 2315; 2387; 2479; 3897
TspDTI	ATGAANNNNNNNNNN!	4	1177; 1497; 2798; 3502
TspDTI	!NNNNNNNNNTTCAT	6	26; 738; 1128; 3216; 3672; 3879
TspEI	!AATT	13	18; 918; 1035; 1343; 1489; 1553; 1631; 1657; 1668; 2315; 2387; 2479; 3897
TspGWI	ACGGANNNNNNNNNN!	2	1288; 3614
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1370
TspRI	CASTGNN!	7	823; 1054; 1585; 2868; 3978; 4249; 4262
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2857
Tth111II	CAARCANNNNNNNNNN!	1	4066
Tth111III	!NNNNNNNNNTGYTTG	3	3174; 4034; 4073
UnbI	!GGNCC	11	82; 275; 834; 1182; 1367; 1845; 3254; 3699; 3745; 3803; 3836
Van91I	CCANNNN!NTGG	1	1014
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	1189; 4343
VpaK11AI	!GGWCC	2	3254; 3699
VpaK11BI	G!GWCC	2	3255; 3700
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	1343; 1553; 1657; 1668
XbaI	T!CTAGA	1	1386
XceI	RCATG!Y	5	870; 2309; 2381; 3144; 4661
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1327
XhoII	R!GATCY	12	585; 644; 1103; 1374; 1383; 2910; 3156; 3548; 3907; 3919; 4005; 4016
XmaI	C!CCGGG	1	1370
XmaJI	C!CTAGG	2	2561; 3576

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XmiI	GT!MKAC	1	1354
XmnI	GAANN!NNTTC	1	850
XspI	C!TAG	8	592; 1387; 1588; 2006; 2562; 3577; 3911; 4164
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2311; 2383; 4714