

## pTagGFP-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	1535; 1740
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1823; 2779; 4568
AatI	AGG!CCT	1	2573
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1367
AccII	CG!CG	19	60; 701; 938; 1256; 1378; 1640; 1676; 2052; 2072; 2096; 2127; 2818; 3119; 3557; 3641; 3704; 3773; 4046; 4627
AccIII	T!CCGGA	1	1327
Acc16I	TGC!GCA	1	2854
Acc36I	ACCTGCNNNN!	2	3020; 3470
Acc36I	!NNNNNNNNGCAGGT	1	2639
Acc65I	G!GTACC	1	1372
AccB1I	G!GYRCC	5	465; 1372; 1905; 2751; 2786
AccB7I	CCANNNN!NTGG	2	1032; 1308
AccBSI	CCG!CTC	2	2176; 3365
AccBSI	GAG!CGG	3	617; 2012; 3419
AceIII	CAGCTCNNNNNNN!	1	1708
AceIII	!NNNNNNNNNNGAGCTG	5	552; 616; 649; 970; 1303
AciI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 828; 936; 975; 1113; 1226; 1242; 1254; 1376; 2067; 2070; 2084; 2174; 2422; 2434; 2443; 2455; 2465; 2476; 2522; 2661; 2724; 3226; 3271; 3337; 3363; 3488; 3491; 3639; 3771; 4078; 4222; 4718
AciI	G!CGG	29	370; 403; 528; 617; 701; 938; 1130; 1133; 1378; 2012; 2039; 2127; 2237; 2818; 2882; 2983; 2986; 3266; 3321; 3419; 3557; 3704; 3844; 4087; 4332; 4453; 4472; 4599; 4627
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	1395; 1404; 2620; 2931; 3177; 3569; 3928; 4026; 4112
AclWI	!NNNNNGATCC	7	580; 1188; 1382; 2996; 3540; 3927; 4024
AcoI	Y!GGCCR	6	681; 1145; 2658; 2832; 3223; 3250
AcsI	R!AATY	4	1356; 1566; 1670; 1681
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	1006; 2898; 3330
AcuI	!NNNNNNNNNNNNNCTTCAG	2	1266; 4128
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	8	122; 175; 258; 444; 719; 2752; 3454; 3533
AdeI	CACNNN!GTG	3	1059; 1266; 1868
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 928; 1039; 1063; 1321; 1374; 3058
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	23	49; 617; 779; 912; 942; 1032; 1248; 1308; 1764; 2090; 2482; 2733; 3277; 3558; 3590; 3722; 3757; 3807; 3839; 4192; 4471; 4637; 4655
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	3	1058; 1638; 4670
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	9	864; 1002; 1047; 1107; 2163; 2207; 2217; 2630; 4206
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	675
AjnI	!CCWGG	20	88; 281; 778; 788; 890; 911; 965; 1019; 1091; 1172; 1271; 2286; 2341; 2358; 3137; 3716; 3819; 4509; 4522; 4643
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	2	790; 967
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	2	2326; 2398
AlfI	!NNNNNNNNNGCANNNNNTGC	2	2292; 2364
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	1834
AloI	!NNNNNNNGGANNNNNNGTTC	1	730
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	1	762
AloI	!NNNNNNNGAACNNNNNTCC	1	1802
AluI	AG!CT	23	566; 630; 663; 735; 768; 984; 1032; 1043; 1143; 1317; 1345; 1351; 1531; 1698; 1955; 2250; 2538; 2858; 3316; 4113; 4370; 4416; 4506
AluBI	AG!CT	23	566; 630; 663; 735; 768; 984; 1032; 1043; 1143; 1317; 1345; 1351; 1531; 1698; 1955; 2250; 2538; 2858; 3316; 4113; 4370; 4416; 4506
AlwI	GGATCNNNN!	9	1395; 1404; 2620; 2931; 3177; 3569; 3928; 4026; 4112
AlwI	!NNNNNGATCC	7	580; 1188; 1382; 2996; 3540; 3927; 4024
Alw21I	GWGCW!C	8	680; 842; 1219; 1271; 1347; 2865; 3055; 4360
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	4	2176; 2594; 3613; 3741
Alw44I	G!TGCAC	2	676; 4356
AlwNI	CAGNNN!CTG	3	1289; 3853; 4261
Ama87I	C!YCGRG	4	835; 877; 1340; 1383
Aor13HI	T!CCGGA	1	1327
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	1384
ApaBI	GCANNNNN!TGC	4	819; 2320; 2392; 3854
ApaLI	G!TGCAC	2	676; 4356
ApeKI	G!CWGC	16	768; 1140; 1292; 1528; 2047; 2712; 2813; 2855; 2896; 2989; 3376; 3829; 4055; 4261; 4264; 4329
ApoI	R!AATTY	4	1356; 1566; 1670; 1681
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3267
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	3061; 3714; 4552
AquI	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3151
AquI	!NNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	650; 2580
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	3322
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	24	586; 657; 741; 1194; 1337; 1388; 1397; 1410; 2590; 2594; 2613; 2924; 3002; 3083; 3092; 3170; 3546; 3562; 3921; 3933; 4011; 4019; 4030; 4105
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2870
Asp700I	GAANN!NNTTC	1	856
Asp718I	G!GTACC	1	1372
AspA2I	C!CTAGG	2	2574; 3589
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	25	597; 701; 871; 899; 1288; 2018; 2026; 2052; 2074; 2083; 2096; 2127; 2746; 2754; 2818; 2855; 3121; 3381; 3557; 3643; 4046; 4155; 4329; 4429; 4496
AspS9I	G!GNCC	15	83; 276; 782; 1023; 1183; 1239; 1251; 1325; 1381; 1859; 3268; 3713; 3759; 3817; 3850
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	1354; 3434
AsuC2I	CC!SGG	6	1384; 1385; 2756; 2916; 3529; 4293
AsuHPI	GGTGANNNNNNNN!	7	376; 804; 957; 981; 1110; 3823; 3939
AsuHPI	!NNNNNNNTCACC	2	1869; 2930
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	835; 877; 1340; 1383

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AvaII	G!GWCC	4	1239; 1325; 3268; 3713
AviII	TGC!GCA	1	2854
AvrII	C!CTAGG	2	2574; 3589
AxyI	CC!TNAGG	2	2232; 3864
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	650; 680; 779; 1172; 1384; 2698; 2791; 4360
BalI	TGG!CCA	1	2834
BamHI	G!GATCC	1	1387
BanI	G!GYRCC	5	465; 1372; 1905; 2751; 2786
BanII	GRGCY!C	5	1347; 1384; 1943; 3117; 3827
BanIII	AT!CGAT	1	2592
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	2	1032; 1308
BauI	C!ACGAG	2	3470; 4497
BauI	C!TCGTG	1	3344
BbeI	GGCG!C	1	2755
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	2322; 2394; 3157
BbvI	GCAGCNNNNNNNN!	7	1152; 1540; 2825; 2867; 3388; 3841; 4341
BbvI	!NNNNNNNNNNNGCTGC	8	755; 1279; 2034; 2699; 2883; 2976; 4042; 4248
Bbv12I	GWGCW!C	8	680; 842; 1219; 1271; 1347; 2865; 3055; 4360
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	7	910; 1207; 1237; 1882; 2446; 2972; 3474
BccI	!NNNNNGATGG	3	1850; 2630; 3058
BceAI	ACGGCNNNNNNNNNN!	10	684; 744; 825; 936; 1026; 1104; 1197; 1320; 3178; 3665
BceAI	!NNNNNNNNNNNGCCGT	3	1893; 2711; 4170
Bcefl	ACGGCNNNNNNNNNN!	10	684; 744; 825; 936; 1026; 1104; 1197; 1320; 3178; 3665
Bcefl	!NNNNNNNNNNNGCCGT	3	1894; 2712; 4171
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2181; 2971; 4472
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1409
BcnI	CC!SGG	6	1384; 1385; 2756; 2916; 3529; 4293
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNN!	3	1216; 1432; 4605
BdaI	!NNNNNNNNNNTGANNNNNTCA	3	1182; 1398; 4571
BfaI	C!TAG	8	592; 1400; 1601; 2019; 2575; 3590; 3924; 4177
BfiI	ACTGGGNNNNN!	1	2701
BfiI	!NNNNCCCAGT	2	289; 2453
BfmI	C!TRYAG	4	1361; 2087; 4214; 4405
BfoI	RGCGC!Y	7	598; 872; 1289; 2019; 2027; 2755; 4430
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2181; 2971; 4472
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3020; 3470
BfuAI	!NNNNNNNNNGCAGGT	1	2639
BfuCI	!GATC	24	585; 656; 740; 1193; 1336; 1387; 1396; 1409; 2589; 2593; 2612; 2923; 3001; 3082; 3091; 3169; 3545; 3561; 3920; 3932; 4010; 4018; 4029; 4104
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2527
BglII	A!GATCT	1	1336

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BisI	GC!NGC	35	702; 769; 939; 1131; 1134; 1141; 1293; 1529; 2048; 2070; 2084; 2522; 2661; 2713; 2724; 2814; 2819; 2856; 2897; 2984; 2987; 2990; 3226; 3322; 3363; 3377; 3491; 3830; 3845; 4056; 4262; 4265; 4330; 4473; 4628
BlnI	C!CTAGG	2	2574; 3589
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	35	703; 770; 940; 1132; 1135; 1142; 1294; 1530; 2049; 2071; 2085; 2523; 2662; 2714; 2725; 2815; 2820; 2857; 2898; 2985; 2988; 2991; 3227; 3323; 3364; 3378; 3492; 3831; 3846; 4057; 4263; 4266; 4331; 4474; 4629
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	4	1239; 1325; 3268; 3713
Bme1390I	CC!NGG	26	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 1384; 1385; 2288; 2343; 2360; 2756; 2916; 3139; 3529; 3718; 3821; 4293; 4511; 4524; 4645
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	835; 877; 1340; 1383
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	675
BmgT120I	GG!NCC	15	84; 277; 783; 1024; 1184; 1240; 1252; 1326; 1382; 1860; 3269; 3714; 3760; 3818; 3851
BmiI	GGN!NCC	18	467; 1185; 1374; 1382; 1389; 1907; 1928; 1940; 2131; 2292; 2364; 2753; 2788; 3636; 3715; 3760; 4603; 4642
BmrI	ACTGGGNNNNN!	1	2701
BmrI	!NNNNCCCAGT	2	289; 2453
BmrFI	CC!NGG	26	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 1384; 1385; 2288; 2343; 2360; 2756; 2916; 3139; 3529; 3718; 3821; 4293; 4511; 4524; 4645
BmsI	GCATCNNNNN!	9	650; 821; 986; 1568; 2331; 2403; 3051; 3115; 3390
BmsI	!NNNNNNNNNGATGC	5	357; 2710; 2965; 3181; 4573
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2701
BmuI	!NNNNCCCAGT	2	289; 2453
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2541; 3440
BpI	!NNNNNNNNGAGNNNNNCTC	2	2509; 3408
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	5	757; 1054; 1114; 1294; 3592
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	3535
Bpu10I	CC!TNAGC	1	1213
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1354; 3434
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4046; 4585
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	1331; 3128; 4287
BpuMI	CC!SGG	6	1384; 1385; 2756; 2916; 3529; 4293
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3741
Bsa29I	AT!CGAT	1	2592
BsaAI	YAC!GTR	3	340; 1868; 3056
BsaBI	GATNN!NNATC	3	1198; 1414; 2611
BsaHI	GR!CGYC	8	122; 175; 258; 444; 719; 2752; 3454; 3533
BsaJI	C!CNNGG	26	360; 778; 788; 878; 936; 965; 1020; 1172; 1173; 1302; 1376; 1383; 2286; 2358; 2481; 2516; 2525; 2574; 2915; 3184; 3589; 3716; 3717; 3819; 3820; 4510
BsaMI	GAATGCN!	1	1503
BsaMI	G!CATTC	1	1596
BsaWI	W!CCGGW	7	600; 1327; 1393; 2783; 3627; 4317; 4464
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1832
BsaXI	!NNNNNNGGAGNNNNNNGT	1	730
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	760
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1802

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	1753; 3660
Bsc4I	CCNNNNN!NNGG	23	49; 617; 779; 912; 942; 1032; 1248; 1308; 1764; 2090; 2482; 2733; 3277; 3558; 3590; 3722; 3757; 3807; 3839; 4192; 4471; 4637; 4655
BscAI	GCATCNNNN!	9	649; 820; 985; 1567; 2330; 2402; 3050; 3114; 3389
BscAI	!NNNNNGATGC	5	360; 2713; 2968; 3184; 4576
BseI	ACTGGN!	3	2696; 2897; 4143
BseI	C!CAGT	6	295; 816; 1781; 2459; 4255; 4268
Bse8I	GATNN!NNATC	3	1198; 1414; 2611
Bse2II	CC!TNAGG	2	2232; 3864
Bse118I	R!CCGGY	7	600; 637; 760; 1969; 3071; 3252; 3535
BseAI	T!CCGGA	1	1327
BseBI	CC!WGG	20	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 2288; 2343; 2360; 3139; 3718; 3821; 4511; 4524; 4645
BseCI	AT!CGAT	1	2592
BseDI	C!CNNGG	26	360; 778; 788; 878; 936; 965; 1020; 1172; 1173; 1302; 1376; 1383; 2286; 2358; 2481; 2516; 2525; 2574; 2915; 3184; 3589; 3716; 3717; 3819; 3820; 4510
Bse3DI	GCAATGNN!	1	2985
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2612; 3069; 3094; 3548
BseGI	!CATCC	5	812; 887; 902; 1016; 2438
BseJI	GATNN!NNATC	3	1198; 1414; 2611
BseLI	CCNNNNN!NNGG	23	49; 617; 779; 912; 942; 1032; 1248; 1308; 1764; 2090; 2482; 2733; 3277; 3558; 3590; 3722; 3757; 3807; 3839; 4192; 4471; 4637; 4655
BseMI	GCAATGNN!	1	2985
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	3	1234; 1347; 3878
BseMII	!NNNNNNNNCTGAG	6	1204; 2223; 2525; 3406; 3978; 4387
BseNI	ACTGGN!	3	2696; 2897; 4143
BseNI	C!CAGT	6	295; 816; 1781; 2459; 4255; 4268
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	640; 2570
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	8	650; 680; 779; 1172; 1384; 2698; 2791; 4360
BseXI	GCAGCNNNNNNNN!	7	1152; 1540; 2825; 2867; 3388; 3841; 4341
BseXI	!NNNNNNNNNNNGCTGC	8	755; 1279; 2034; 2699; 2883; 2976; 4042; 4248
BseX3I	C!GGCCG	1	2658
BseYI	C!CCAGC	3	2295; 2367; 4366
BseYI	G!CTGGG	1	3256
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1159
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	738
Bsh1236I	CG!CG	19	60; 701; 938; 1256; 1378; 1640; 1676; 2052; 2072; 2096; 2127; 2818; 3119; 3557; 3641; 3704; 3773; 4046; 4627
Bsh1285I	CGRY!CG	3	605; 2661; 4336
BshFI	GG!CC	28	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1252; 1382; 1718; 1860; 2515; 2521; 2530; 2573; 2660; 2834; 3225; 3252; 3761; 3818; 3851; 4196; 4630; 4648; 4659
BshNI	G!GYRCC	5	465; 1372; 1905; 2751; 2786
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	2592
BsiEI	CGRY!CG	3	605; 2661; 4336
BsiHKAI	GWGCW!C	8	680; 842; 1219; 1271; 1347; 2865; 3055; 4360
BsiHKCI	C!YCGRG	4	835; 877; 1340; 1383
BsiSI	C!CGG	22	601; 638; 761; 1328; 1384; 1394; 1970; 2657; 2734; 2756; 2784; 2915; 3005; 3072; 3253; 3528; 3536; 3628; 4102; 4292; 4318; 4465
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	23	49; 617; 779; 912; 942; 1032; 1248; 1308; 1764; 2090; 2482; 2733; 3277; 3558; 3590; 3722; 3757; 3807; 3839; 4192; 4471; 4637; 4655
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2903; 3435; 3544
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2268; 2340; 2404; 3699
BsmI	GAATGCN!	1	1503

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BsmI	G!CATTC	1	1596
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	4	2176; 2594; 3613; 3741
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2903; 3435; 3544
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2268; 2340; 2404; 3699
BsnI	GG!CC	28	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1252; 1382; 1718; 1860; 2515; 2521; 2530; 2573; 2660; 2834; 3225; 3252; 3761; 3818; 3851; 4196; 4630; 4648; 4659
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3741
BsoBI	C!YCGRG	4	835; 877; 1340; 1383
Bsp13I	T!CCGGA	1	1327
Bsp19I	C!CATGG	3	360; 2481; 3184
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3555
Bsp24I	!NNNNNNCCANNNNNGTC	2	3976; 4154
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4008; 4186
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3523
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1354; 3434
Bsp120I	G!GGCCC	1	1380
Bsp143I	!GATC	24	585; 656; 740; 1193; 1336; 1387; 1396; 1409; 2589; 2593; 2612; 2923; 3001; 3082; 3091; 3169; 3545; 3561; 3920; 3932; 4010; 4018; 4029; 4104
Bsp1286I	GDGCH!C	17	650; 680; 779; 842; 1172; 1219; 1271; 1347; 1384; 1943; 2698; 2791; 2865; 3055; 3117; 3827; 4360
Bsp1407I	T!GTACA	2	1061; 1319
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 828; 936; 975; 1113; 1226; 1242; 1254; 1376; 2067; 2070; 2084; 2174; 2422; 2434; 2443; 2455; 2465; 2476; 2522; 2661; 2724; 3226; 3271; 3337; 3363; 3488; 3491; 3639; 3771; 4078; 4222; 4718
BspACI	G!CGG	29	370; 403; 528; 617; 701; 938; 1130; 1133; 1378; 2012; 2039; 2127; 2237; 2818; 2882; 2983; 2986; 3266; 3321; 3419; 3557; 3704; 3844; 4087; 4332; 4453; 4472; 4599; 4627
BspCNI	CTCAGNNNNNNNN!	3	1233; 1346; 3877
BspCNI	!NNNNNNCTGAG	6	1205; 2224; 2526; 3407; 3979; 4388
BspDI	AT!CGAT	1	2592
BspD6I	GACTCNNNN!	5	418; 1339; 1825; 3431; 4308
BspD6I	!NNNNNGAGTC	3	1269; 1788; 2220
BspEI	T!CCGGA	1	1327
BspFNI	CG!CG	19	60; 701; 938; 1256; 1378; 1640; 1676; 2052; 2072; 2096; 2127; 2818; 3119; 3557; 3641; 3704; 3773; 4046; 4627
BspHI	T!CATGA	2	2178; 3950
BspLI	GGN!NCC	18	467; 1185; 1374; 1382; 1389; 1907; 1928; 1940; 2131; 2292; 2364; 2753; 2788; 3636; 3715; 3760; 4603; 4642
BspMI	ACCTGCNNNN!	2	3020; 3470
BspMI	!NNNNNNNGCAGGT	1	2639
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	1395; 1404; 2620; 2931; 3177; 3569; 3928; 4026; 4112
BspPI	!NNNNNGATCC	7	580; 1188; 1382; 2996; 3540; 3927; 4024
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3096; 3306
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1354; 3434
BspT107I	G!GYRCC	5	465; 1372; 1905; 2751; 2786
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3741
BsrI	ACTGGN!	3	2696; 2897; 4143
BsrI	C!CAGT	6	295; 816; 1781; 2459; 4255; 4268
BsrBI	CCG!CTC	2	2176; 3365
BsrBI	GAG!CGG	3	617; 2012; 3419
BsrDI	GCAATGNN!	1	2985
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	600; 637; 760; 1969; 3071; 3252; 3535

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrGI	T!GTACA	2	1061; 1319
BsrSI	ACTGGN!	3	2696; 2897; 4143
BsrSI	C!CAGT	6	295; 816; 1781; 2459; 4255; 4268
BssAI	R!CCGGY	7	600; 637; 760; 1969; 3071; 3252; 3535
BssECI	C!CNNGG	26	360; 778; 788; 878; 936; 965; 1020; 1172; 1173; 1302; 1376; 1383; 2286; 2358; 2481; 2516; 2525; 2574; 2915; 3184; 3589; 3716; 3717; 3819; 3820; 4510
BssHII	G!CGCGC	0	
BssKI	!CCNGG	26	88; 281; 778; 788; 890; 911; 965; 1019; 1091; 1172; 1271; 1382; 1383; 2286; 2341; 2358; 2754; 2914; 3137; 3527; 3716; 3819; 4291; 4509; 4522; 4643
BssMI	!GATC	24	585; 656; 740; 1193; 1336; 1387; 1396; 1409; 2589; 2593; 2612; 2923; 3001; 3082; 3091; 3169; 3545; 3561; 3920; 3932; 4010; 4018; 4029; 4104
BssNI	GR!CGYC	8	122; 175; 258; 444; 719; 2752; 3454; 3533
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3470; 4497
BssSI	C!TCGTG	1	3344
BssTII	C!CWWGG	5	360; 2481; 2574; 3184; 3589
Bst6I	CTCTCN!	1	913
Bst6I	!NNNNGAAGAG	3	2219; 3096; 3306
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 719; 2752; 3454; 3533
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	4	818; 2319; 2391; 3853
BstAUI	T!GTACA	2	1061; 1319
BstBI	TT!CGAA	2	1354; 3434
Bst2BI	C!ACGAG	2	3470; 4497
Bst2BI	C!TCGTG	1	3344
BstBAI	YAC!GTR	3	340; 1868; 3056
Bst4CI	ACN!GT	14	76; 198; 269; 543; 581; 1372; 1843; 3132; 3248; 3356; 3679; 4170; 4640; 4711
BstC8I	GCN!NGC	37	86; 279; 593; 639; 697; 733; 766; 828; 1138; 1145; 1254; 1290; 1380; 1971; 2014; 2028; 2301; 2320; 2373; 2392; 2646; 2832; 3051; 3117; 3123; 3155; 3196; 3200; 3254; 3537; 3724; 3771; 3827; 3849; 4060; 4620; 4657
BstDEI	C!TNAG	9	1213; 1220; 1333; 2232; 2534; 3415; 3864; 3987; 4396
BstDSI	C!CRYGG	6	360; 936; 1302; 1376; 2481; 3184
BstEII	G!GTNACC	1	792
BstENI	CCTNN!NNNAGG	1	910
BstF5I	GGATGNN!	4	2612; 3069; 3094; 3548
BstF5I	!CATCC	5	812; 887; 902; 1016; 2438
BstFNI	CG!CG	19	60; 701; 938; 1256; 1378; 1640; 1676; 2052; 2072; 2096; 2127; 2818; 3119; 3557; 3641; 3704; 3773; 4046; 4627
BstH2I	RGCGC!Y	7	598; 872; 1289; 2019; 2027; 2755; 4430
BstHHI	GCG!C	25	597; 701; 871; 899; 1288; 2018; 2026; 2052; 2074; 2083; 2096; 2127; 2746; 2754; 2818; 2855; 3121; 3381; 3557; 3643; 4046; 4155; 4329; 4429; 4496
BstKTI	GAT!C	24	588; 659; 743; 1196; 1339; 1390; 1399; 1412; 2592; 2596; 2615; 2926; 3004; 3085; 3094; 3172; 3548; 3564; 3923; 3935; 4013; 4021; 4032; 4107
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	4	2176; 2594; 3613; 3741
BstMBI	!GATC	24	585; 656; 740; 1193; 1336; 1387; 1396; 1409; 2589; 2593; 2612; 2923; 3001; 3082; 3091; 3169; 3545; 3561; 3920; 3932; 4010; 4018; 4029; 4104
BstMCI	CGRY!CG	3	605; 2661; 4336
BstMWI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 660; 701; 761; 774; 818; 1049; 1241; 1292; 1979; 2009; 2036; 2078; 2319; 2391; 2442; 2521; 2743; 2827; 2850; 2989; 3112; 3195; 3462; 3649; 3853; 4052; 4624
BstNI	CC!WGG	20	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 2288; 2343; 2360; 3139; 3718; 3821; 4511; 4524; 4645
BstNSI	RCATG!Y	4	2322; 2394; 3157; 4674
BstOI	CC!WGG	20	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 2288; 2343; 2360; 3139; 3718; 3821; 4511; 4524; 4645

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstPI	G!GTNACC	1	792
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	26	88; 281; 778; 788; 890; 911; 965; 1019; 1091; 1172; 1271; 1382; 1383; 2286; 2341; 2358; 2754; 2914; 3137; 3527; 3716; 3819; 4291; 4509; 4522; 4643
BstSFI	C!TRYAG	4	1361; 2087; 4214; 4405
BstSLI	GKGCMI!C	8	650; 680; 779; 1172; 1384; 2698; 2791; 4360
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 701; 938; 1256; 1378; 1640; 1676; 2052; 2072; 2096; 2127; 2818; 3119; 3557; 3641; 3704; 3773; 4046; 4627
Bst2UI	CC!WGG	20	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 2288; 2343; 2360; 3139; 3718; 3821; 4511; 4524; 4645
BstV1I	GCAGCNNNNNNNN!	7	1152; 1540; 2825; 2867; 3388; 3841; 4341
BstV1I	!NNNNNNNNNNNGCTGC	8	755; 1279; 2034; 2699; 2883; 2976; 4042; 4248
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	11	585; 1336; 1387; 1396; 2923; 3169; 3561; 3920; 3932; 4018; 4029
BstYI	R!GATCY	11	585; 1336; 1387; 1396; 2923; 3169; 3561; 3920; 3932; 4018; 4029
BstZI	C!GGCCG	1	2658
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2181; 2971; 4472
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2592
Bsu36I	CC!TNAGG	2	2232; 3864
BsuRI	GG!CC	28	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1252; 1382; 1718; 1860; 2515; 2521; 2530; 2573; 2660; 2834; 3225; 3252; 3761; 3818; 3851; 4196; 4630; 4648; 4659
BsuTUI	AT!CGAT	1	2592
BtgI	C!CRYGG	6	360; 936; 1302; 1376; 2481; 3184
BtgZI	GCGATGNNNNNNNNNN!	2	1869; 3204
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3023; 3367
BthCI	GCNG!C	35	704; 771; 941; 1133; 1136; 1143; 1295; 1531; 2050; 2072; 2086; 2524; 2663; 2715; 2726; 2816; 2821; 2858; 2899; 2986; 2989; 2992; 3228; 3324; 3365; 3379; 3493; 3832; 3847; 4058; 4264; 4267; 4332; 4475; 4630
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	675
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1591
BtsCI	GGATGNN!	4	2612; 3069; 3094; 3548
BtsCI	!CATCC	5	812; 887; 902; 1016; 2438
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3020; 3470
BveI	!NNNNNNNNGCAGGT	1	2639
Cac8I	GCN!NGC	37	86; 279; 593; 639; 697; 733; 766; 828; 1138; 1145; 1254; 1290; 1380; 1971; 2014; 2028; 2301; 2320; 2373; 2392; 2646; 2832; 3051; 3117; 3123; 3155; 3196; 3200; 3254; 3537; 3724; 3771; 3827; 3849; 4060; 4620; 4657
CaiI	CAGNNN!CTG	3	1289; 3853; 4261
CciI	T!CATGA	2	2178; 3950
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	8	352; 645; 981; 1125; 3041; 3046; 3244; 3385
CdiI	C!GATG	2	1855; 3190
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	4624
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2413; 2455
CelII	GC!TNAGC	0	
CfoI	GCG!C	25	597; 701; 871; 899; 1288; 2018; 2026; 2052; 2074; 2083; 2096; 2127; 2746; 2754; 2818; 2855; 3121; 3381; 3557; 3643; 4046; 4155; 4329; 4429; 4496
CfrI	Y!GGCCR	6	681; 1145; 2658; 2832; 3223; 3250
Cfr9I	C!CCGGG	1	1383
Cfr10I	R!CCGGY	7	600; 637; 760; 1969; 3071; 3252; 3535
Cfr13I	G!GNCC	15	83; 276; 782; 1023; 1183; 1239; 1251; 1325; 1381; 1859; 3268; 3713; 3759; 3817; 3850



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cfr42I	CCGC!GG	2	939; 1379
ChaI	GATC!	24	589; 660; 744; 1197; 1340; 1391; 1400; 1413; 2593; 2597; 2616; 2927; 3005; 3086; 3095; 3173; 3549; 3565; 3924; 3936; 4014; 4022; 4033; 4108
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNN!	5	1078; 2569; 4009; 4109; 4187
CjeI	!NNNNNNNNNACNNNNNTGG	7	64; 257; 2236; 2331; 3523; 4073; 4628
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2270; 2365; 3557; 4107; 4662
CjeI	!NNNNNNNNCCANNNNNNGT	5	1044; 2535; 3975; 4075; 4153
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	2	4009; 4187
CjePI	!NNNNNNNGANNNNNNNTGG	3	257; 3523; 4122
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 3556; 4155
CjePI	!NNNNNNCCANNNNNNTC	2	3976; 4154
Clal	AT!CGAT	1	2592
CpoI	CG!GWCCG	1	3268
CseI	GACGCNNNNN!	4	526; 727; 3462; 3541
CseI	!NNNNNNNNNGCGTC	3	2085; 3980; 4558
CsiI	A!CCWGGT	1	2341
CspI	CG!GWCCG	1	3268
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 927; 1038; 1062; 1320; 1373; 3057
Csp45I	TT!CGAA	2	1354; 3434
CspAI	A!CCGGT	1	600
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1028; 2032; 3641
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	21	301; 361; 612; 843; 873; 1068; 1263; 1308; 2179; 2319; 2391; 2482; 2623; 2968; 3154; 3185; 3211; 3567; 3951; 4671; 4722
CviJI	RG!CY	93	42; 84; 93; 277; 566; 630; 663; 683; 735; 768; 783; 884; 984; 1025; 1032; 1043; 1052; 1081; 1091; 1143; 1147; 1184; 1252; 1317; 1345; 1351; 1382; 1421; 1531; 1698; 1718; 1860; 1941; 1955; 1969; 2250; 2291; 2363; 2486; 2515; 2521; 2530; 2538; 2561; 2573; 2579; 2660; 2677; 2685; 2712; 2737; 2821; 2830; 2834; 2858; 2896; 2972; 2989; 3008; 3071; 3115; 3125; 3142; 3225; 3252; 3256; 3293; 3316; 3332; 3512; 3539; 3600; 3722; 3761; 3818; 3825; 3832; 3851; 3862; 4113; 4142; 4185; 4196; 4261; 4340; 4365; 4370; 4416; 4506; 4604; 4630; 4648; 4659
CviKI-1	RG!CY	93	42; 84; 93; 277; 566; 630; 663; 683; 735; 768; 783; 884; 984; 1025; 1032; 1043; 1052; 1081; 1091; 1143; 1147; 1184; 1252; 1317; 1345; 1351; 1382; 1421; 1531; 1698; 1718; 1860; 1941; 1955; 1969; 2250; 2291; 2363; 2486; 2515; 2521; 2530; 2538; 2561; 2573; 2579; 2660; 2677; 2685; 2712; 2737; 2821; 2830; 2834; 2858; 2896; 2972; 2989; 3008; 3071; 3115; 3125; 3142; 3225; 3252; 3256; 3293; 3316; 3332; 3512; 3539; 3600; 3722; 3761; 3818; 3825; 3832; 3851; 3862; 4113; 4142; 4185; 4196; 4261; 4340; 4365; 4370; 4416; 4506; 4604; 4630; 4648; 4659
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 927; 1038; 1062; 1320; 1373; 3057
DdeI	C!TNAG	9	1213; 1220; 1333; 2232; 2534; 3415; 3864; 3987; 4396
DinI	GGC!GCC	1	2753
DpnI	GA!TC	24	587; 658; 742; 1195; 1338; 1389; 1398; 1411; 2591; 2595; 2614; 2925; 3003; 3084; 3093; 3171; 3547; 3563; 3922; 3934; 4012; 4020; 4031; 4106
DpnII	!GATC	24	585; 656; 740; 1193; 1336; 1387; 1396; 1409; 2589; 2593; 2612; 2923; 3001; 3082; 3091; 3169; 3545; 3561; 3920; 3932; 4010; 4018; 4029; 4104
DraI	TTT!AAA	3	1454; 3896; 3915
DraII	RG!GNCCY	1	3850
DraIII	CACNNN!GTG	3	1059; 1266; 1868
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	5	266; 950; 1019; 1262; 4232
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1823; 2779; 4568
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1823; 2779; 4568

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EaeI	Y!GGCCR	6	681; 1145; 2658; 2832; 3223; 3250
EagI	C!GGCCG	1	2658
Eam1104I	CTCTTCN!	1	913
Eam1104I	!NNNNGAAGAG	3	2219; 3096; 3306
Eam1105I	GACNN!NNGTC	0	
EarI	CTCTTCN!	1	913
EarI	!NNNNGAAGAG	3	2219; 3096; 3306
EciI	GGCGGANNNNNNNNNN!	4	2252; 3281; 4468; 4614
EciI	!NNNNNNNNNTCCGCC	4	496; 2423; 2444; 2465
Ecl136II	GAG!CTC	1	1345
EclXI	C!GGCCG	1	2658
Eco24I	GRGCY!C	5	1347; 1384; 1943; 3117; 3827
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	3741
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	1239; 1325; 3268; 3713
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	2658
Eco57I	CTGAAGNNNNNNNNNNNNNN!	3	1006; 2898; 3330
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	1266; 4128
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	2	2232; 3864
Eco88I	C!YCGRG	4	835; 877; 1340; 1383
Eco91I	G!GTNACC	1	792
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	5	360; 2481; 2574; 3184; 3589
Eco147I	AGG!CCT	1	2573
EcoHI	!CCSGG	6	1382; 1383; 2754; 2914; 3527; 4291
EcoICRI	GAG!CTC	1	1345
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	8	757; 1006; 1054; 1114; 1294; 2898; 3330; 3592
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	1266; 3535; 4128
EcoNI	CCTNN!NNNAGG	1	910
Eco065I	G!GTNACC	1	792
Eco0109I	RG!GNCCY	1	3850
EcoRI	G!AATTC	1	1356
EcoRII	!CCWGG	20	88; 281; 778; 788; 890; 911; 965; 1019; 1091; 1172; 1271; 2286; 2341; 2358; 3137; 3716; 3819; 4509; 4522; 4643
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	360; 2481; 2574; 3184; 3589
EcoT22I	ATGCA!T	3	2324; 2396; 4727
EcoT38I	GRGCY!C	5	1347; 1384; 1943; 3117; 3827
Eco53kI	GAG!CTC	1	1345
EgeI	GGC!GCC	1	2753
EheI	GGC!GCC	1	2753
ErhI	C!CWWGG	5	360; 2481; 2574; 3184; 3589
EsaBC3I	TC!GA	18	660; 954; 981; 1125; 1342; 1355; 1368; 1902; 2593; 2866; 3022; 3046; 3082; 3244; 3435; 3480; 3735; 4573
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	21	304; 364; 615; 846; 876; 1071; 1266; 1311; 2182; 2322; 2394; 2485; 2626; 2971; 3157; 3188; 3214; 3570; 3954; 4674; 4725
Fail	YA!TR	57	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 844; 874; 1069; 1264; 1309; 1414; 1424; 1490; 1535; 1740; 2168; 2180; 2311; 2320; 2383; 2392; 2416; 2483; 2507; 2624; 2688; 2969; 2994; 3155; 3186; 3212; 3284; 3500; 3568; 3646; 3698; 3859; 3876; 3878; 3880; 3952; 4230; 4419; 4535; 4608; 4672; 4723
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	1	3092
FalI	!NNNNNNNNNAAGNNNNNCTT	1	3060
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2903; 3435; 3544
FaqI	!NNNNNNNNNNNNNGTCCC	4	2268; 2340; 2404; 3699
FatI	!CATG	21	300; 360; 611; 842; 872; 1067; 1262; 1307; 2178; 2318; 2390; 2481; 2622; 2967; 3153; 3184; 3210; 3566; 3950; 4670; 4721
FauI	CCCGCNNNN!	12	93; 119; 286; 835; 943; 1120; 1261; 2074; 2429; 2450; 3646; 3778
FauI	!NNNNNNNGCGGG	7	610; 1371; 2005; 2875; 3412; 3550; 3697

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	1409
FblI	GT!MKAC	1	1367
FmuI	GGNC!C	15	86; 279; 785; 1026; 1186; 1242; 1254; 1328; 1384; 1862; 3271; 3716; 3762; 3820; 3853
Fnu4HI	GC!NGC	35	702; 769; 939; 1131; 1134; 1141; 1293; 1529; 2048; 2070; 2084; 2522; 2661; 2713; 2724; 2814; 2819; 2856; 2897; 2984; 2987; 2990; 3226; 3322; 3363; 3377; 3491; 3830; 3845; 4056; 4262; 4265; 4330; 4473; 4628
FokI	GGATGNNNNNNNNN!	4	2619; 3076; 3101; 3555
FokI	!NNNNNNNNNNNNNCATCC	4	799; 874; 1003; 2425
FriOI	GRGCY!C	5	1347; 1384; 1943; 3117; 3827
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2854
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1400; 1601; 2019; 2575; 3590; 3924; 4177
FspEI	CCNNNNNNNNNNN!	157	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 651; 697; 735; 771; 785; 801; 829; 847; 885; 904; 919; 948; 978; 1033; 1066; 1085; 1105; 1125; 1161; 1176; 1198; 1212; 1239; 1255; 1273; 1293; 1309; 1341; 1389; 1404; 1435; 1474; 1488; 1629; 1724; 1748; 1771; 1794; 1812; 1834; 1855; 1874; 1893; 1922; 1943; 1957; 1983; 2071; 2097; 2146; 2187; 2205; 2244; 2260; 2298; 2355; 2370; 2427; 2447; 2461; 2478; 2492; 2529; 2544; 2587; 2670; 2737; 2768; 2788; 2803; 2848; 2862; 2928; 2942; 2961; 2977; 3018; 3038; 3085; 3135; 3151; 3171; 3196; 3216; 3239; 3266; 3284; 3310; 3350; 3376; 3400; 3456; 3470; 3498; 3541; 3562; 3597; 3641; 3729; 3753; 3775; 3795; 3811; 3832; 3846; 3865; 3949; 3969; 3997; 4012; 4046; 4088; 4115; 4130; 4175; 4199; 4213; 4235; 4261; 4281; 4305; 4331; 4379; 4398; 4417; 4443; 4478; 4523; 4553; 4567; 4618; 4632; 4657; 4673; 4694; 4723
FspEI	!NNNNNNNNNNNNNNNGG	129	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 604; 623; 649; 686; 713; 746; 765; 794; 865; 898; 923; 941; 973; 991; 1018; 1063; 1081; 1111; 1129; 1159; 1222; 1249; 1289; 1308; 1355; 1379; 1423; 1523; 1592; 1700; 1749; 1771; 1799; 1835; 1880; 1909; 1945; 1964; 1992; 2012; 2075; 2098; 2206; 2238; 2256; 2285; 2328; 2357; 2468; 2497; 2540; 2561; 2589; 2622; 2642; 2667; 2694; 2719; 2741; 2769; 2795; 2816; 2867; 2888; 2906; 2954; 2990; 3046; 3071; 3095; 3124; 3147; 3171; 3197; 3219; 3238; 3263; 3303; 3339; 3404; 3489; 3513; 3542; 3576; 3597; 3617; 3662; 3689; 3708; 3741; 3793; 3824; 3851; 3903; 4001; 4072; 4117; 4178; 4243; 4277; 4303; 4321; 4357; 4427; 4450; 4472; 4496; 4529; 4577; 4612; 4630; 4687
Fsp4HI	GC!NGC	35	702; 769; 939; 1131; 1134; 1141; 1293; 1529; 2048; 2070; 2084; 2522; 2661; 2713; 2724; 2814; 2819; 2856; 2897; 2984; 2987; 2990; 3226; 3322; 3363; 3377; 3491; 3830; 3845; 4056; 4262; 4265; 4330; 4473; 4628
GdiII	C!GGCCR	2	681; 2658
GdiII	Y!GGCCG	4	1145; 2658; 3223; 3250
GlaI	GC!GC	25	596; 700; 870; 898; 1287; 2017; 2025; 2051; 2073; 2082; 2095; 2126; 2745; 2753; 2817; 2854; 3120; 3380; 3556; 3642; 4045; 4154; 4328; 4428; 4495
GluI	GC!NGC	35	702; 769; 939; 1131; 1134; 1141; 1293; 1529; 2048; 2070; 2084; 2522; 2661; 2713; 2724; 2814; 2819; 2856; 2897; 2984; 2987; 2990; 3226; 3322; 3363; 3377; 3491; 3830; 3845; 4056; 4262; 4265; 4330; 4473; 4628
GsaI	CCCAG!C	3	2299; 2371; 4370
GsaI	GCTGG!G	1	3260
GsuI	CTGGAGNNNNNNNNNNNNNNN!	5	757; 1054; 1114; 1294; 3592
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3535
HaeI	WGG!CCW	6	1081; 2573; 2834; 4196; 4648; 4659
HaeII	RGCGC!Y	7	598; 872; 1289; 2019; 2027; 2755; 4430
HaeIII	GG!CC	28	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1252; 1382; 1718; 1860; 2515; 2521; 2530; 2573; 2660; 2834; 3225; 3252; 3761; 3818; 3851; 4196; 4630; 4648; 4659
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	1427; 2948
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1393; 2914
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	1426; 2947

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1395; 2916
HapII	C!CGG	22	601; 638; 761; 1328; 1384; 1394; 1970; 2657; 2734; 2756; 2784; 2915; 3005; 3072; 3253; 3528; 3536; 3628; 4102; 4292; 4318; 4465
HgaI	GACGCNNNNN!	4	526; 727; 3462; 3541
HgaI	!NNNNNNNNNNNGCGTC	3	2085; 3980; 4558
HhaI	GCG!C	25	597; 701; 871; 899; 1288; 2018; 2026; 2052; 2074; 2083; 2096; 2127; 2746; 2754; 2818; 2855; 3121; 3381; 3557; 3643; 4046; 4155; 4329; 4429; 4496
Hin1I	GR!CGYC	8	122; 175; 258; 444; 719; 2752; 3454; 3533
Hin1III	CATG!	21	304; 364; 615; 846; 876; 1071; 1266; 1311; 2182; 2322; 2394; 2485; 2626; 2971; 3157; 3188; 3214; 3570; 3954; 4674; 4725
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1426; 2947
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	1394; 2915; 2945
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1426; 2947; 2977
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	1394; 2915
Hin6I	G!CGC	25	595; 699; 869; 897; 1286; 2016; 2024; 2050; 2072; 2081; 2094; 2125; 2744; 2752; 2816; 2853; 3119; 3379; 3555; 3641; 4044; 4153; 4327; 4427; 4494
HinP1I	G!CGC	25	595; 699; 869; 897; 1286; 2016; 2024; 2050; 2072; 2081; 2094; 2125; 2744; 2752; 2816; 2853; 3119; 3379; 3555; 3641; 4044; 4153; 4327; 4427; 4494
HincII	GTY!RAC	2	1368; 1515
HindII	GTY!RAC	2	1368; 1515
HindIII	A!AGCTT	1	1349
HinfI	G!ANTC	13	410; 1276; 1331; 1795; 1817; 2227; 3237; 3371; 3423; 3481; 3518; 4300; 4696
HpaI	GTT!AAC	1	1515
HpaII	C!CGG	22	601; 638; 761; 1328; 1384; 1394; 1970; 2657; 2734; 2756; 2784; 2915; 3005; 3072; 3253; 3528; 3536; 3628; 4102; 4292; 4318; 4465
HphI	GGTGANNNNNNN!	7	376; 804; 957; 981; 1110; 3823; 3939
HphI	!NNNNNNNTCACC	2	1869; 2930
Hpy8I	GTN!NAC	13	201; 539; 577; 678; 972; 1062; 1101; 1368; 1515; 1799; 1816; 1871; 4358
Hpy99I	CGWCG!	12	676; 721; 922; 1183; 1372; 2842; 2870; 3164; 3179; 3456; 3841; 4574
Hpy166II	GTN!NAC	13	201; 539; 577; 678; 972; 1062; 1101; 1368; 1515; 1799; 1816; 1871; 4358
Hpy188I	TCN!GA	13	585; 1223; 1336; 1926; 2535; 2719; 3063; 3416; 3517; 3996; 4130; 4483; 4561
Hpy188III	TC!NNGA	24	864; 1107; 1328; 1340; 1400; 2179; 2231; 2544; 2597; 2770; 3086; 3095; 3178; 3234; 3278; 3368; 3401; 3470; 3951; 4025; 4108; 4206; 4304; 4438
HpyAV	CCTTCNNNNNN!	4	1290; 3397; 3504; 4183
HpyAV	!NNNNNGAAGG	8	981; 1985; 2880; 3609; 3625; 3808; 4125; 4435
HpyCH4III	ACN!GT	14	76; 198; 269; 543; 581; 1372; 1843; 3132; 3248; 3356; 3679; 4170; 4640; 4711
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 674; 1058; 1166; 1812; 1824; 1867; 1977; 2868; 3055; 3836; 3969
HpyCH4V	TG!CA	20	678; 755; 1140; 1363; 1501; 1528; 1596; 2313; 2322; 2385; 2394; 2509; 2585; 2644; 2803; 2978; 2992; 4062; 4358; 4725
HpyF3I	C!TNAG	9	1213; 1220; 1333; 2232; 2534; 3415; 3864; 3987; 4396
HpyF10VI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 660; 701; 761; 774; 818; 1049; 1241; 1292; 1979; 2009; 2036; 2078; 2319; 2391; 2442; 2521; 2743; 2827; 2850; 2989; 3112; 3195; 3462; 3649; 3853; 4052; 4624
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 719; 2752; 3454; 3533
Hsp92II	CATG!	21	304; 364; 615; 846; 876; 1071; 1266; 1311; 2182; 2322; 2394; 2485; 2626; 2971; 3157; 3188; 3214; 3570; 3954; 4674; 4725
HspAI	G!CGC	25	595; 699; 869; 897; 1286; 2016; 2024; 2050; 2072; 2081; 2094; 2125; 2744; 2752; 2816; 2853; 3119; 3379; 3555; 3641; 4044; 4153; 4327; 4427; 4494
KasI	G!GCGCC	1	2751
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	1376
Kpn2I	T!CCGGA	1	1327
KspI	CCGC!GG	2	939; 1379

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Ksp22I	T!GATCA	1	1409
KspAI	GTT!AAC	1	1515
Kzo9I	!GATC	24	585; 656; 740; 1193; 1336; 1387; 1396; 1409; 2589; 2593; 2612; 2923; 3001; 3082; 3091; 3169; 3545; 3561; 3920; 3932; 4010; 4018; 4029; 4104
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3096; 3306
LpnI	RGC!GCGY	7	596; 870; 1287; 2017; 2025; 2753; 4428
LpnPI	CCDGNNNNNNNNN!	63	102; 295; 614; 651; 774; 792; 829; 904; 925; 979; 1033; 1105; 1171; 1186; 1225; 1285; 1302; 1341; 1397; 1489; 1794; 1983; 2206; 2244; 2260; 2300; 2355; 2372; 2472; 2557; 2670; 2747; 2769; 2792; 2928; 2942; 2961; 3018; 3085; 3135; 3151; 3208; 3266; 3475; 3541; 3565; 3641; 3730; 3833; 3866; 4097; 4115; 4261; 4281; 4305; 4331; 4380; 4478; 4523; 4553; 4632; 4657; 4694
LpnPI	!NNNNNNNNNNNNNNCHGG	60	75; 268; 552; 586; 623; 649; 721; 746; 765; 877; 898; 952; 1006; 1078; 1129; 1159; 1258; 1308; 1369; 1835; 1955; 2012; 2075; 2273; 2285; 2345; 2357; 2589; 2634; 2677; 2719; 2741; 2769; 2816; 2878; 2900; 2990; 3057; 3080; 3124; 3219; 3238; 3263; 3412; 3513; 3556; 3613; 3703; 3806; 3833; 3851; 4087; 4124; 4277; 4303; 4443; 4461; 4496; 4577; 4630
Lsp1109I	GCAGCNNNNNNNN!	7	1152; 1540; 2825; 2867; 3388; 3841; 4341
Lsp1109I	!NNNNNNNNNNNNNGCTGC	8	755; 1279; 2034; 2699; 2883; 2976; 4042; 4248
LweI	GCATCNNNNNN!	9	650; 821; 986; 1568; 2331; 2403; 3051; 3115; 3390
LweI	!NNNNNNNNNNNGATGC	5	357; 2710; 2965; 3181; 4573
MabI	A!CCWGGT	1	2341
MaeI	C!TAG	8	592; 1400; 1601; 2019; 2575; 3590; 3924; 4177
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 674; 1058; 1166; 1812; 1824; 1867; 1977; 2868; 3055; 3836; 3969
MaeIII	!GTNAC	13	61; 148; 497; 792; 1540; 2041; 2053; 2872; 3178; 3868; 4134; 4250; 4313
MalI	GA!TC	24	587; 658; 742; 1195; 1338; 1389; 1398; 1411; 2591; 2595; 2614; 2925; 3003; 3084; 3093; 3171; 3547; 3563; 3922; 3934; 4012; 4020; 4031; 4106
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2176; 3365
MbiI	GAG!CGG	3	617; 2012; 3419
MboI	!GATC	24	585; 656; 740; 1193; 1336; 1387; 1396; 1409; 2589; 2593; 2612; 2923; 3001; 3082; 3091; 3169; 3545; 3561; 3920; 3932; 4010; 4018; 4029; 4104
MboII	GAAGANNNNNNNNN!	6	858; 2008; 2236; 3113; 3323; 3942
MboII	!NNNNNNNTCTTC	6	852; 900; 3403; 3570; 3770; 4013
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1502
MflI	R!GATCY	11	585; 1336; 1387; 1396; 2923; 3169; 3561; 3920; 3932; 4018; 4029
MhII	GDGCH!C	17	650; 680; 779; 842; 1172; 1219; 1271; 1347; 1384; 1943; 2698; 2791; 2865; 3055; 3117; 3827; 4360
MIsI	TGG!CCA	1	2834
MluI	A!CGCGT	1	1638
MluNI	TGG!CCA	1	2834
MlyI	GAGTCNNNNNN!	3	1285; 1804; 2236
MlyI	!NNNNNGACTC	5	404; 1325; 1811; 3417; 4294
Mly113I	GG!CGCC	1	2752
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	1	1845
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4277; 4461
MnII	CCTCNNNNNNNN!	9	811; 916; 1471; 2535; 3353; 3559; 3873; 4243; 4567
MnII	!NNNNNNNGAGG	22	541; 618; 699; 873; 936; 948; 999; 1089; 1119; 1242; 1431; 1896; 2227; 2505; 2548; 2563; 2603; 2667; 2803; 3160; 3590; 4493
Mph1103I	ATGCA!T	3	2324; 2396; 4727
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1327
MroNI	G!CCGGC	4	637; 1969; 3252; 3535
MroXI	GAANN!NNTTC	1	856
MscI	TGG!CCA	1	2834

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MseI	T!TAA	15	7; 1453; 1514; 1635; 1656; 1667; 1679; 1690; 1707; 1805; 2076; 3895; 3909; 3914; 3966
MslI	CAYNN!NNRTG	5	365; 790; 847; 967; 3189
MspI	C!CGG	22	601; 638; 761; 1328; 1384; 1394; 1970; 2657; 2734; 2756; 2784; 2915; 3005; 3072; 3253; 3528; 3536; 3628; 4102; 4292; 4318; 4465
Msp20I	TGG!CCA	1	2834
MspA1I	CMG!CKG	7	938; 1143; 1378; 2250; 2858; 4087; 4332
MspCI	C!TTAAG	0	
MspJI	CNNRNNNNNNNN!	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; 630; 650; 663; 676; 691; 708; 723; 744; 773; 786; 801; 828; 847; 876; 889; 903; 924; 942; 966; 979; 993; 1014; 1032; 1045; 1066; 1080; 1094; 1119; 1137; 1156; 1170; 1185; 1198; 1224; 1248; 1265; 1284; 1301; 1315; 1335; 1352; 1367; 1389; 1406; 1420; 1435; 1459; 1476; 1489; 1530; 1544; 1557; 1575; 1613; 1628; 1646; 1687; 1711; 1731; 1749; 1770; 1793; 1825; 1840; 1862; 1880; 1893; 1914; 1931; 1944; 1957; 1973; 1986; 2016; 2031; 2056; 2074; 2087; 2102; 2126; 2140; 2164; 2189; 2205; 2243; 2259; 2298; 2312; 2326; 2354; 2370; 2384; 2398; 2427; 2440; 2461; 2470; 2492; 2522; 2538; 2556; 2586; 2609; 2633; 2657; 2676; 2704; 2730; 2746; 2759; 2782; 2796; 2816; 2829; 2843; 2862; 2876; 2889; 2905; 2920; 2933; 2949; 2964; 2980; 3005; 3024; 3040; 3053; 3066; 3084; 3098; 3112; 3128; 3150; 3166; 3185; 3207; 3223; 3246; 3265; 3279; 3295; 3309; 3329; 3345; 3358; 3380; 3413; 3427; 3447; 3460; 3474; 3528; 3541; 3564; 3577; 3596; 3613; 3640; 3676; 3709; 3728; 3753; 3774; 3801; 3814; 3831; 3845; 3860; 3876; 3936; 3961; 3977; 3999; 4012; 4026; 4057; 4071; 4096; 4114; 4129; 4142; 4161; 4174; 4189; 4218; 4237; 4255; 4280; 4295; 4314; 4330; 4349; 4367; 4383; 4397; 4416; 4443; 4466; 4488; 4507; 4522; 4535; 4552; 4572; 4599; 4612; 4631; 4656; 4679; 4693; 4706; 4723
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; 620; 637; 661; 678; 697; 718; 738; 758; 775; 794; 813; 850; 877; 898; 916; 938; 967; 988; 1006; 1045; 1063; 1093; 1111; 1130; 1153; 1172; 1198; 1218; 1239; 1258; 1275; 1294; 1313; 1334; 1363; 1380; 1404; 1433; 1462; 1504; 1587; 1625; 1649; 1672; 1701; 1745; 1767; 1799; 1835; 1852; 1873; 1910; 1930; 1947; 1964; 1999; 2017; 2035; 2052; 2076; 2098; 2125; 2153; 2179; 2217; 2238; 2255; 2273; 2296; 2317; 2345; 2368; 2389; 2407; 2428; 2445; 2468; 2492; 2512; 2530; 2552; 2583; 2605; 2631; 2650; 2667; 2695; 2714; 2733; 2751; 2769; 2790; 2812; 2836; 2869; 2889; 2907; 2928; 2954; 2981; 2998; 3015; 3032; 3058; 3080; 3102; 3120; 3140; 3159; 3181; 3219; 3239; 3263; 3283; 3303; 3330; 3354; 3387; 3406; 3434; 3456; 3485; 3513; 3538; 3557; 3576; 3597; 3614; 3631; 3662; 3689; 3709; 3732; 3752; 3789; 3806; 3825; 3851; 3871; 3910; 3937; 3956; 3974; 4011; 4029; 4070; 4088; 4114; 4131; 4163; 4192; 4220; 4241; 4264; 4283; 4304; 4322; 4339; 4357; 4383; 4404; 4424; 4444; 4462; 4483; 4509; 4526; 4545; 4564; 4593; 4612; 4630; 4649; 4667; 4685; 4708
MspR9I	CC!NGG	26	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 1384; 1385; 2288; 2343; 2360; 2756; 2916; 3139; 3529; 3718; 3821; 4293; 4511; 4524; 4645
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1502
MvaI	CC!WGG	20	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 2288; 2343; 2360; 3139; 3718; 3821; 4511; 4524; 4645
Mva1269I	GAATGCN!	1	1503
Mva1269I	G!CATTC	1	1596
MvnI	CG!CG	19	60; 701; 938; 1256; 1378; 1640; 1676; 2052; 2072; 2096; 2127; 2818; 3119; 3557; 3641; 3704; 3773; 4046; 4627
MvrI	CGAT!CG	0	
MwoI	GCNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 660; 701; 761; 774; 818; 1049; 1241; 1292; 1979; 2009; 2036; 2078; 2319; 2391; 2442; 2521; 2743; 2827; 2850; 2989; 3112; 3195; 3462; 3649; 3853; 4052; 4624
NaeI	GCC!GGC	4	639; 1971; 3254; 3537
NarI	GG!CGCC	1	2752

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NciI	CCISGG	6	1384; 1385; 2756; 2916; 3529; 4293
NcoI	C!CATGG	3	360; 2481; 3184
NdeI	CA!TATG	1	234
NdeII	!GATC	24	585; 656; 740; 1193; 1336; 1387; 1396; 1409; 2589; 2593; 2612; 2923; 3001; 3082; 3091; 3169; 3545; 3561; 3920; 3932; 4010; 4018; 4029; 4104
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	637; 1969; 3252; 3535
NheI	G!CTAGC	1	591
NlaIII	CATG!	21	304; 364; 615; 846; 876; 1071; 1266; 1311; 2182; 2322; 2394; 2485; 2626; 2971; 3157; 3188; 3214; 3570; 3954; 4674; 4725
NlaIV	GGN!NCC	18	467; 1185; 1374; 1382; 1389; 1907; 1928; 1940; 2131; 2292; 2364; 2753; 2788; 3636; 3715; 3760; 4603; 4642
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1584; 1899; 3491
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 4563
Nli3877I	CYCGR!G	4	839; 881; 1344; 1387
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2541; 2977
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2506
NmeDI	RCCGGYNNNNNNN!	7	612; 649; 772; 1981; 3083; 3264; 3547
NmeDI	!NNNNNNNNNNNNRCCGGY	7	587; 624; 747; 1956; 3058; 3239; 3522
NmuCI	!GTSAC	4	792; 2041; 2872; 3178
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2854
NsiI	ATGCA!T	3	2324; 2396; 4727
NspI	RCATG!Y	4	2322; 2394; 3157; 4674
NspV	TT!CGAA	2	1354; 3434
OliI	CACNN!NNGTG	2	790; 967
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 929; 1040; 1064; 1322; 1375; 3059
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2322; 2394; 3157
PaeR7I	C!TCGAG	1	1340
PagI	T!CATGA	2	2178; 3950
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1173; 3717; 3820
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2573
PciI	A!CATGT	1	4670
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3096; 3306
Pcsi	WCGNNNN!NNNCGW	9	641; 1253; 1310; 3046; 3123; 3366; 3440; 3833; 4351
PctI	GAATGCN!	1	1503
PctI	G!CATTC	1	1596
PdiI	GCC!GGC	4	639; 1971; 3254; 3537
PdmI	GAANN!NNTTC	1	856
PfeI	G!AWTC	5	3237; 3371; 3481; 3518; 4696
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2870
PfIMI	CCANNNN!NTGG	2	1032; 1308
PfoI	T!CCNGGA	4	890; 911; 1271; 3527
PhoI	GG!CC	28	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1252; 1382; 1718; 1860; 2515; 2521; 2530; 2573; 2660; 2834; 3225; 3252; 3761; 3818; 3851; 4196; 4630; 4648; 4659
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	2	1256; 3133
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2698; 2953
PleI	GAGTCNNNN!	3	1284; 1803; 2235
PleI	!NNNNNGACTC	5	404; 1325; 1811; 3417; 4294
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	1834
PpiI	!NNNNNNNNNGAGNNNNNGTTC	4	616; 730; 934; 3964
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	4	648; 762; 966; 3996
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1802
PpsI	GAGTCNNNN!	3	1284; 1803; 2235
PpsI	!NNNNNGACTC	5	404; 1325; 1811; 3417; 4294
Ppu10I	A!TGCAT	3	2320; 2392; 4723
Ppu21I	YAC!GTR	3	340; 1868; 3056
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4670
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1535; 1740
Psp03I	GGWC!C	4	1242; 1328; 3271; 3716
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	20	88; 281; 778; 788; 890; 911; 965; 1019; 1091; 1172; 1271; 2286; 2341; 2358; 3137; 3716; 3819; 4509; 4522; 4643
Psp1406I	AA!CGTT	0	
Psp124BI	GAGTC!C	1	1347
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	1	792
PspGI	!CCWGG	20	88; 281; 778; 788; 890; 911; 965; 1019; 1091; 1172; 1271; 2286; 2341; 2358; 3137; 3716; 3819; 4509; 4522; 4643
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	18	467; 1185; 1374; 1382; 1389; 1907; 1928; 1940; 2131; 2292; 2364; 2753; 2788; 3636; 3715; 3760; 4603; 4642
PspOMI	G!GGCCC	1	1380
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 2482; 3481
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	2	1155; 2884
PspPI	G!GNCC	15	83; 276; 782; 1023; 1183; 1239; 1251; 1325; 1381; 1859; 3268; 3713; 3759; 3817; 3850
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	2305; 2377; 3883
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	2218; 3413
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3853
PstI	CTGCA!G	1	1365
PstNI	CAGNNN!CTG	3	1289; 3853; 4261
PsuI	R!GATCY	11	585; 1336; 1387; 1396; 2923; 3169; 3561; 3920; 3932; 4018; 4029
PsyI	GACN!NNGTC	1	2870
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1143; 2250; 2858
RcaI	T!CATGA	2	2178; 3950
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3267
RceI	!NNNNNNNNNNNNNNNNNGTCCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	1481
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; 928; 1039; 1063; 1321; 1374; 3058
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 927; 1038; 1062; 1320; 1373; 3057
RseI	CAYNN!NNRTG	5	365; 790; 847; 967; 3189
RsrII	CG!GWCCG	1	3268



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Rsr2I	CG!GWCCG	1	3268
SacI	GAGCT!C	1	1347
SacII	CCGC!GG	2	939; 1379
SalI	G!TCGAC	1	1366
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	3096; 3306
SaqAI	T!TAA	15	7; 1453; 1514; 1635; 1656; 1667; 1679; 1690; 1707; 1805; 2076; 3895; 3909; 3914; 3966
SatI	GC!NGC	35	702; 769; 939; 1131; 1134; 1141; 1293; 1529; 2048; 2070; 2084; 2522; 2661; 2713; 2724; 2814; 2819; 2856; 2897; 2984; 2987; 2990; 3226; 3322; 3363; 3377; 3491; 3830; 3845; 4056; 4262; 4265; 4330; 4473; 4628
Sau96I	G!GNCC	15	83; 276; 782; 1023; 1183; 1239; 1251; 1325; 1381; 1859; 3268; 3713; 3759; 3817; 3850
Sau3AI	!GATC	24	585; 656; 740; 1193; 1336; 1387; 1396; 1409; 2589; 2593; 2612; 2923; 3001; 3082; 3091; 3169; 3545; 3561; 3920; 3932; 4010; 4018; 4029; 4104
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	1285; 1804; 2236
SchI	!NNNNNGACTC	5	404; 1325; 1811; 3417; 4294
SciI	CTC!GAG	1	1342
ScrFI	CC!NGG	26	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 1384; 1385; 2288; 2343; 2360; 2756; 2916; 3139; 3529; 3718; 3821; 4293; 4511; 4524; 4645
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	918; 2330; 2402; 2571; 4513
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	1250; 2907; 3392
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	17	650; 680; 779; 842; 1172; 1219; 1271; 1347; 1384; 1943; 2698; 2791; 2865; 3055; 3117; 3827; 4360
SelI	!CGCG	19	58; 699; 936; 1254; 1376; 1638; 1674; 2050; 2070; 2094; 2125; 2816; 3117; 3555; 3639; 3702; 3771; 4044; 4625
SetI	ASST!	67	125; 137; 178; 261; 308; 342; 447; 552; 568; 632; 665; 677; 737; 770; 947; 986; 1034; 1045; 1061; 1100; 1145; 1169; 1214; 1319; 1327; 1347; 1353; 1442; 1463; 1472; 1484; 1533; 1700; 1815; 1827; 1870; 1907; 1957; 1980; 2104; 2252; 2347; 2540; 2653; 2781; 2860; 2871; 2943; 3014; 3058; 3318; 3464; 3508; 3839; 3870; 3929; 3972; 4115; 4136; 4235; 4372; 4387; 4406; 4418; 4462; 4508; 4559
SexAI	A!CCWGGT	1	2341
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	9	650; 821; 986; 1568; 2331; 2403; 3051; 3115; 3390
SfaNI	!NNNNNNNNNGATGC	5	357; 2710; 2965; 3181; 4573
SfcI	C!TRYAG	4	1361; 2087; 4214; 4405
SfiI	GGCCNNNN!NGGCC	1	2527
SfoI	GGC!GCC	1	2753
Sfr274I	C!TCGAG	1	1340
Sfr303I	CCGC!GG	2	939; 1379
SfuI	TT!CGAA	2	1354; 3434

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	195	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 650; 663; 676; 691; 708; 723; 744; 773; 786; 801; 828; 847; 876; 889; 903; 924; 942; 966; 979; 993; 1014; 1032; 1045; 1071; 1084; 1104; 1119; 1137; 1156; 1170; 1185; 1198; 1224; 1248; 1265; 1284; 1301; 1315; 1335; 1352; 1389; 1406; 1459; 1488; 1530; 1613; 1651; 1687; 1771; 1793; 1825; 1862; 1880; 1899; 1914; 1956; 1973; 1990; 2025; 2039; 2056; 2078; 2102; 2126; 2191; 2205; 2243; 2259; 2299; 2312; 2331; 2354; 2371; 2384; 2403; 2433; 2454; 2471; 2494; 2529; 2556; 2587; 2609; 2635; 2657; 2676; 2704; 2740; 2759; 2782; 2796; 2816; 2829; 2843; 2862; 2876; 2895; 2927; 2941; 2954; 2980; 3011; 3024; 3041; 3058; 3072; 3089; 3107; 3122; 3150; 3166; 3185; 3207; 3223; 3246; 3265; 3290; 3309; 3329; 3356; 3380; 3413; 3432; 3460; 3474; 3540; 3564; 3579; 3602; 3623; 3640; 3688; 3715; 3729; 3758; 3782; 3815; 3832; 3852; 3865; 3878; 3936; 3963; 3982; 4012; 4037; 4057; 4071; 4096; 4114; 4151; 4189; 4218; 4246; 4260; 4280; 4295; 4316; 4330; 4349; 4367; 4383; 4423; 4443; 4470; 4488; 4509; 4522; 4535; 4552; 4576; 4599; 4631; 4656; 4683; 4705
SgeI	!NNNNNNNNNNNNCNG	169	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 624; 646; 665; 682; 718; 747; 765; 802; 821; 850; 877; 898; 916; 940; 967; 988; 1006; 1045; 1063; 1093; 1111; 1130; 1153; 1172; 1198; 1222; 1239; 1258; 1275; 1294; 1314; 1334; 1363; 1380; 1433; 1462; 1504; 1587; 1625; 1661; 1745; 1767; 1799; 1836; 1854; 1873; 1930; 1947; 1964; 1999; 2017; 2037; 2057; 2076; 2100; 2165; 2217; 2273; 2305; 2328; 2345; 2377; 2407; 2428; 2445; 2468; 2503; 2530; 2561; 2583; 2609; 2631; 2650; 2678; 2714; 2733; 2756; 2777; 2795; 2812; 2836; 2869; 2901; 2928; 2954; 2985; 3015; 3032; 3058; 3081; 3102; 3124; 3144; 3164; 3181; 3220; 3239; 3264; 3283; 3303; 3330; 3354; 3387; 3406; 3434; 3456; 3514; 3538; 3557; 3576; 3597; 3614; 3662; 3689; 3709; 3732; 3756; 3789; 3806; 3826; 3852; 3910; 3937; 3956; 3986; 4011; 4031; 4070; 4088; 4125; 4163; 4192; 4220; 4241; 4269; 4290; 4323; 4341; 4397; 4417; 4444; 4462; 4483; 4509; 4526; 4550; 4573; 4605; 4630; 4657; 4679; 4708
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	2	939; 1379
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1899; 3686; 4479
SimI	!GACCC	6	106; 932; 1109; 3180; 3748; 3996
SinI	G!GWCC	4	1239; 1325; 3268; 3713
SlaI	C!TCGAG	1	1340
SmaI	CCC!GGG	1	1385
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 790; 847; 967; 3189
SmlI	C!TYRAG	6	1340; 1346; 3143; 4025; 4302; 4564
SmoI	C!TYRAG	6	1340; 1346; 3143; 4025; 4302; 4564
SmuI	CCCGNNNN!	12	93; 119; 286; 835; 943; 1120; 1261; 2074; 2429; 2450; 3646; 3778
SmuI	!NNNNNNGCGGG	7	610; 1371; 2005; 2875; 3412; 3550; 3697
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2322; 2394; 3157
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 1356; 1502; 1566; 1644; 1670; 1681; 2328; 2400; 2492; 3910
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2573
SsiI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 828; 936; 975; 1113; 1226; 1242; 1254; 1376; 2067; 2070; 2084; 2174; 2422; 2434; 2443; 2455; 2465; 2476; 2522; 2661; 2724; 3226; 3271; 3337; 3363; 3488; 3491; 3639; 3771; 4078; 4222; 4718
SsiI	G!CGG	29	370; 403; 528; 617; 701; 938; 1130; 1133; 1378; 2012; 2039; 2127; 2237; 2818; 2882; 2983; 2986; 3266; 3321; 3419; 3557; 3704; 3844; 4087; 4332; 4453; 4472; 4599; 4627
SspI	AAT!ATT	2	1660; 2213

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SspDI	G!GCGCC	1	2751
SspD5I	GGTGANNNNNNNNN!	7	376; 804; 957; 981; 1110; 3823; 3939
SspD5I	!NNNNNNNNNTCACC	2	1868; 2929
SstI	GAGCT!C	1	1347
SstII	CCGC!GG	2	939; 1379
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	26	92; 118; 285; 656; 779; 834; 842; 884; 942; 1079; 1119; 1193; 1260; 1390; 1951; 2073; 2428; 2449; 2762; 3165; 3304; 3375; 3645; 3777; 4007; 4445
Sth132I	!NNNNNNNNNCGGG	20	15; 407; 470; 609; 1370; 1952; 2004; 2105; 2832; 2874; 2907; 3411; 3520; 3549; 3696; 3800; 3831; 4284; 4328; 4536
Sth302II	CC!GG	22	602; 639; 762; 1329; 1385; 1395; 1971; 2658; 2735; 2757; 2785; 2916; 3006; 3073; 3254; 3529; 3537; 3629; 4103; 4293; 4319; 4466
StrI	C!TCGAG	1	1340
StsI	GGATGNNNNNNNNNN!	4	2620; 3077; 3102; 3556
StsI	!NNNNNNNNNNNNNNNNCATCC	4	798; 873; 1002; 2424
StuI	AGG!CCT	1	2573
StyI	C!CWWGG	5	360; 2481; 2574; 3184; 3589
StyD4I	!CCNGG	26	88; 281; 778; 788; 890; 911; 965; 1019; 1091; 1172; 1271; 1382; 1383; 2286; 2341; 2358; 2754; 2914; 3137; 3527; 3716; 3819; 4291; 4509; 4522; 4643
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	14	76; 198; 269; 543; 581; 1372; 1843; 3132; 3248; 3356; 3679; 4170; 4640; 4711
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 677; 1061; 1169; 1815; 1827; 1870; 1980; 2871; 3058; 3839; 3972
TaqI	T!CGA	18	659; 953; 980; 1124; 1341; 1354; 1367; 1901; 2592; 2865; 3021; 3045; 3081; 3243; 3434; 3479; 3734; 4572
TaqII	GACCGANNNNNNNNNNN!	3	1772; 2789; 3457
TaqII	!NNNNNNNNNTCGGTC	1	3701
TaqII	CACCCANNNNNNNNNNN!	1	1315
TaqII	!NNNNNNNNNTGGGTG	3	172; 2656; 3248
TasI	!AATT	11	18; 1356; 1502; 1566; 1644; 1670; 1681; 2328; 2400; 2492; 3910
TatI	W!GTACW	8	217; 297; 330; 381; 926; 1037; 1061; 1319
TauI	GCSG!C	19	704; 941; 1133; 1136; 2072; 2086; 2524; 2663; 2726; 2821; 2986; 2989; 3228; 3324; 3365; 3493; 3847; 4475; 4630
TfiI	G!AWTC	5	3237; 3371; 3481; 3518; 4696
TliI	C!TCGAG	1	1340
Tru1I	T!TAA	15	7; 1453; 1514; 1635; 1656; 1667; 1679; 1690; 1707; 1805; 2076; 3895; 3909; 3914; 3966
Tru9I	T!TAA	15	7; 1453; 1514; 1635; 1656; 1667; 1679; 1690; 1707; 1805; 2076; 3895; 3909; 3914; 3966
TscAI	CASTGNN!	6	823; 1598; 2881; 3991; 4262; 4275
TseI	G!CWGC	16	768; 1140; 1292; 1528; 2047; 2712; 2813; 2855; 2896; 2989; 3376; 3829; 4055; 4261; 4264; 4329
TsoI	TARCCANNNNNNNNNNN!	2	1724; 2071
TsoI	!NNNNNNNNNTGGYTA	2	1529; 3281
Tsp45I	!GTSAC	4	792; 2041; 2872; 3178
Tsp509I	!AATT	11	18; 1356; 1502; 1566; 1644; 1670; 1681; 2328; 2400; 2492; 3910
TspDTI	ATGAANNNNNNNNNNN!	4	859; 1510; 2811; 3515
TspDTI	!NNNNNNNNNTTCAT	5	26; 738; 3229; 3685; 3892
TspEI	!AATT	11	18; 1356; 1502; 1566; 1644; 1670; 1681; 2328; 2400; 2492; 3910
TspGWI	ACGGANNNNNNNNNNN!	1	3627
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1383
TspRI	CASTGNN!	6	823; 1598; 2881; 3991; 4262; 4275
TstI	CACNNNNNNNTCCNNNNNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2870
Tth111II	CAARCANNNNNNNNNNN!	1	4079

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Tth111II	!NNNNNNNNNTGYTTG	3	3187; 4047; 4086
UnbI	!GGNCC	15	82; 275; 781; 1022; 1182; 1238; 1250; 1324; 1380; 1858; 3267; 3712; 3758; 3816; 3849
Van9II	CCANNNN!NTGG	2	1032; 1308
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	676; 4356
VpaK11AI	!GGWCC	4	1238; 1324; 3267; 3712
VpaK11BI	G!GWCC	4	1239; 1325; 3268; 3713
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	1	910
XapI	R!AATTY	4	1356; 1566; 1670; 1681
XbaI	T!CTAGA	1	1399
XceI	RCATG!Y	4	2322; 2394; 3157; 4674
XcmI	CCANNNNN!NNNNTGG	2	1089; 1170
XhoI	C!TCGAG	1	1340
XhoII	R!GATCY	11	585; 1336; 1387; 1396; 2923; 3169; 3561; 3920; 3932; 4018; 4029
XmaI	C!CCGGG	1	1383
XmaJI	C!CTAGG	2	2574; 3589
XmiI	GT!MKAC	1	1367
XmnI	GAANN!NNTTC	1	856
XspI	C!TAG	8	592; 1400; 1601; 2019; 2575; 3590; 3924; 4177
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2324; 2396; 4727