

## pCase12-Cyto vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2068; 2273
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	4	1882; 2356; 3312; 5101
AatI	AGG!CCT	1	3106
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	640
AccII	CG!CG	19	60; 651; 950; 1370; 1479; 1934; 2209; 2585; 2605; 2629; 2660; 3351; 3652; 4090; 4174; 4237; 4306; 4579; 5160
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	3387
Acc36I	ACCTGCNNNN!	2	3553; 4003
Acc36I	!NNNNNNNNGCAGGT	1	3172
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	9	465; 645; 1039; 1077; 1552; 1660; 2438; 3284; 3319
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	2709; 3898
AccBSI	GAG!CGG	2	2545; 3952
AceIII	CAGCTCNNNNNNN!	2	847; 2241
AceIII	!NNNNNNNNNNGAGCTG	5	552; 997; 1048; 1081; 1402
AciI	C!CGC	40	58; 86; 98; 112; 279; 507; 589; 649; 807; 980; 983; 1260; 1301; 1368; 1407; 1932; 2600; 2603; 2617; 2707; 2955; 2967; 2976; 2988; 2998; 3009; 3055; 3194; 3257; 3759; 3804; 3870; 3896; 4021; 4024; 4172; 4304; 4611; 4755; 5251
AciI	G!CGG	27	370; 403; 528; 651; 1028; 1034; 1928; 2545; 2572; 2660; 2770; 3351; 3415; 3516; 3519; 3799; 3854; 3952; 4090; 4237; 4377; 4620; 4865; 4986; 5005; 5132; 5160
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	668; 997; 3153; 3464; 3710; 4102; 4461; 4559; 4645
AclWI	!NNNNNGATCC	7	580; 655; 798; 3529; 4073; 4460; 4557
AcoI	Y!GGCCR	7	764; 1113; 1929; 3191; 3365; 3756; 3783
AcsI	R!AATY	7	629; 1510; 1678; 1897; 2099; 2203; 2214
AcuI	CTGAAGNNNNNNNNNNNNNNN!	5	1195; 1267; 1438; 3431; 3863
AcuI	!NNNNNNNNNNNNNCTTCAG	1	4661
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	7	122; 175; 258; 444; 3285; 3987; 4066
AdeI	CACNNN!GTG	1	2401
AfaI	GT!AC	11	219; 244; 299; 332; 383; 540; 647; 1015; 1471; 1904; 3591
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	19	49; 986; 1211; 1374; 2297; 2623; 3015; 3266; 3810; 4091; 4123; 4255; 4290; 4340; 4372; 4725; 5004; 5170; 5188
AfiII	C!TTAAG	1	2167
AfiIII	A!CRYGT	2	1477; 5203
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	10	801; 1296; 1344; 1434; 1515; 2696; 2740; 2750; 3163; 4739
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	2	688; 1800
AjiI	GAC!GTG	0	
AjnI	!CCWGG	16	88; 281; 1085; 1210; 1322; 1397; 1451; 2819; 2874; 2891; 3670; 4249; 4352; 5042; 5055; 5176
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	3	1072; 1222; 1399
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2859; 2931
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	2	2825; 2897
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	2367
AloI	!NNNNNNNNGGANNNNNNNGTTC	0	
AloI	GGANNNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	2335
AluI	AG!CT	28	566; 618; 624; 724; 740; 837; 911; 1011; 1062; 1095; 1167; 1179; 1200; 1416; 1464; 1488; 1615; 2064; 2231; 2488; 2783; 3071; 3391; 3849; 4646; 4903; 4949; 5039
AluBI	AG!CT	28	566; 618; 624; 724; 740; 837; 911; 1011; 1062; 1095; 1167; 1179; 1200; 1416; 1464; 1488; 1615; 2064; 2231; 2488; 2783; 3071; 3391; 3849; 4646; 4903; 4949; 5039
AlwI	GGATCNNNN!	9	668; 997; 3153; 3464; 3710; 4102; 4461; 4559; 4645
AlwI	!NNNNNGATCC	7	580; 655; 798; 3529; 4073; 4460; 4557
Alw21I	GWGCW!C	5	620; 742; 3398; 3588; 4893
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1868; 2709; 3127; 4146; 4274
Alw44I	G!TGCAC	1	4889
AlwNI	CAGNNN!CTG	3	1615; 4386; 4794
Ama87I	C!YCGRG	3	613; 656; 745
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNNN!TGC	3	2853; 2925; 4387
ApaLI	G!TGCAC	1	4889
ApeKI	G!CWGC	21	827; 834; 885; 888; 1046; 1200; 1281; 1783; 2061; 2580; 3245; 3346; 3388; 3429; 3522; 3909; 4362; 4588; 4794; 4797; 4862
ApoI	R!AATY	7	629; 1510; 1678; 1897; 2099; 2203; 2214
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3800
ApyPI	!NNNNNNNNNNNNNNNNNNGTCGAT	3	3594; 4247; 5085
AquI	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3684
AquI	!NNNNNNNNNNNNNNNNNNGTNCGGC	1	1112
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	1082; 3113
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	2	1653; 3855
ArsI	GACNNNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	1	1304
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	1	1336
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 610; 661; 804; 952; 990; 1182; 1483; 1632; 1851; 1943; 3123; 3127; 3146; 3457; 3535; 3616; 3625; 3703; 4079; 4095; 4454; 4466; 4544; 4552; 4563; 4638
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3403
Asp700I	GAANN!NNTTC	1	1252
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	3107; 4122
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	24	597; 950; 1331; 1372; 2551; 2559; 2585; 2607; 2616; 2629; 2660; 3279; 3287; 3351; 3388; 3654; 3914; 4090; 4176; 4579; 4688; 4862; 4962; 5029
AspS9I	G!GNCC	12	83; 276; 654; 877; 960; 1214; 2392; 3801; 4246; 4292; 4350; 4383
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 3967
AsuC2I	CC!SGG	8	657; 658; 987; 1071; 3289; 3449; 4062; 4826
AsuHPI	GGTGANNNNNNNNN!	5	376; 1389; 1413; 4356; 4472
AsuHPI	!NNNNNNNTCACC	3	1059; 2402; 3463
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	3	613; 656; 745
AvaII	G!GWCC	3	960; 3801; 4246

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AviII	TGC!GCA	1	3387
AvrII	C!CTAGG	2	3107; 4122
AxyI	CC!TNAGG	2	2765; 4397
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	7	657; 1082; 1211; 1460; 3231; 3324; 4893
BalI	TGG!CCA	1	3367
BamHI	G!GATCC	1	660
BanI	G!GYRCC	9	465; 645; 1039; 1077; 1552; 1660; 2438; 3284; 3319
BanII	GRGCY!C	6	620; 657; 742; 2476; 3650; 4360
BanIII	AT!CGAT	1	3125
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	1918
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	1886
BasI	CCANNNN!NTGG	0	
BauI	C!ACGAG	2	4003; 5030
BauI	C!TCGTG	2	1222; 3877
BbeI	GGCG!C	1	3288
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	2855; 2927; 3690
BbvI	GCAGCNNNNNNNN!	10	839; 1058; 1293; 1795; 2073; 3358; 3400; 3921; 4374; 4874
BbvI	!NNNNNNNNNNNGCTGC	8	872; 1187; 2567; 3232; 3416; 3509; 4575; 4781
Bbv12I	GWGCW!C	5	620; 742; 3398; 3588; 4893
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	8	874; 1090; 1342; 1564; 2415; 2979; 3505; 4007
BccI	!NNNNNGATGG	9	1018; 1537; 1645; 1686; 1756; 1864; 2383; 3163; 3591
BceAI	ACGGCNNNNNNNNNN!	10	798; 840; 891; 1116; 1176; 1257; 1368; 1458; 3711; 4198
BceAI	!NNNNNNNNNNNGCCGT	3	2426; 3244; 4703
BceI	ACGGCNNNNNNNNNN!	10	798; 840; 891; 1116; 1176; 1257; 1368; 1458; 3711; 4198
BceI	!NNNNNNNNNNNGCCGT	3	2427; 3245; 4704
BcgI	CGANNNNNTGCNNNNNNNNNN!	1	1166
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNTGC	1	1132
BciVI	GTATCCNNNNN!	3	2714; 3504; 5005
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	3	1482; 1631; 1850
BcnI	CC!SGG	8	657; 658; 987; 1071; 3289; 3449; 4062; 4826
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNN!	1	5138
BdaI	!NNNNNNNNNTGANNNNNTCA	1	5104
BfaI	C!TAG	9	592; 1697; 1940; 2134; 2552; 3108; 4123; 4457; 4710
BfiI	ACTGGGNNNN!	2	1603; 3234
BfiI	!NNNCCCAGT	2	289; 2986
BfmI	C!TRYAG	5	634; 725; 2620; 4747; 4938
BfoI	RGCGC!Y	5	598; 2552; 2560; 3288; 4963
BfrI	C!TTAAG	1	2167
BfuI	GTATCCNNNNN!	3	2714; 3504; 5005
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3553; 4003
BfuAI	!NNNNNNNGCAGGT	1	3172
BfuCI	!GATC	27	585; 609; 660; 803; 951; 989; 1181; 1482; 1631; 1850; 1942; 3122; 3126; 3145; 3456; 3534; 3615; 3624; 3702; 4078; 4094; 4453; 4465; 4543; 4551; 4562; 4637
BglI	GCCNNNN!NGGC	4	90; 212; 283; 3060
BglII	A!GATCT	1	609

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BisI	GC!NGC	37	828; 835; 886; 889; 983; 1047; 1201; 1282; 1784; 1932; 2062; 2581; 2603; 2617; 3055; 3194; 3246; 3257; 3347; 3352; 3389; 3430; 3517; 3523; 3759; 3855; 3896; 3910; 4024; 4363; 4378; 4589; 4795; 4798; 4863; 5006; 5161
BlnI	C!CTAGG	2	3107; 4122
BlpI	GC!TNAGC	1	736
BlsI	GCN!GC	37	829; 836; 887; 890; 984; 1048; 1202; 1283; 1785; 1933; 2063; 2582; 2604; 2618; 3056; 3195; 3247; 3258; 3348; 3353; 3390; 3431; 3518; 3524; 3760; 3856; 3897; 3911; 4025; 4364; 4379; 4590; 4796; 4799; 4864; 5007; 5162
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	960; 3801; 4246
Bme1390I	CC!NGG	24	90; 283; 657; 658; 987; 1071; 1087; 1212; 1324; 1399; 1453; 2821; 2876; 2893; 3289; 3449; 3672; 4062; 4251; 4354; 4826; 5044; 5057; 5178
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	3	613; 656; 745
BmgBI	CAC!GTC	2	688; 1800
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	12	84; 277; 655; 878; 961; 1215; 2393; 3802; 4247; 4293; 4351; 4384
BmiI	GGN!NCC	22	467; 647; 655; 662; 879; 1041; 1079; 1554; 1662; 2440; 2461; 2473; 2664; 2825; 2897; 3286; 3321; 4169; 4248; 4293; 5136; 5175
BmrI	ACTGGGNNNNN!	2	1603; 3234
BmrI	!NNNNCCCAGT	2	289; 2986
BmrFI	CC!NGG	24	90; 283; 657; 658; 987; 1071; 1087; 1212; 1324; 1399; 1453; 2821; 2876; 2893; 3289; 3449; 3672; 4062; 4251; 4354; 4826; 5044; 5057; 5178
BmsI	GCATCNNNNN!	9	794; 1418; 1433; 2101; 2864; 2936; 3584; 3648; 3923
BmsI	!NNNNNNNNNGATGC	7	357; 1140; 1635; 3243; 3498; 3714; 5106
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1603; 3234
BmuI	!NNNNCCCAGT	2	289; 2986
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3074; 3973
BpI	!NNNNNNNGAGNNNNNCTC	2	3042; 3941
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	988; 1486; 4125
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	4068
Bpu10I	CC!TNAGC	2	907; 925
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 3967
Bpu1102I	GC!TNAGC	1	736
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4579; 5118
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	604; 3661; 4820
BpuMI	CC!SGG	8	657; 658; 987; 1071; 3289; 3449; 4062; 4826
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	4274
Bsa29I	AT!CGAT	1	3125
BsaAI	YAC!GTR	3	340; 2401; 3589
BsaBI	GATNN!NNATC	2	1947; 3144
BsaHI	GR!CGYC	7	122; 175; 258; 444; 3285; 3987; 4066
BsaJI	C!CNNGG	23	360; 649; 656; 1070; 1210; 1233; 1373; 1397; 1452; 2819; 2891; 3014; 3049; 3058; 3107; 3448; 3717; 4122; 4249; 4250; 4352; 4353; 5043
BsaMI	GAATGCN!	1	2036
BsaMI	G!CATTC	2	1741; 2129
BsaWI	W!CCGGW	6	600; 666; 3316; 4160; 4850; 4997
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2365
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2335

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	1	1499
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	2286; 4193
Bsc4I	CCNNNNN!NNGG	19	49; 986; 1211; 1374; 2297; 2623; 3015; 3266; 3810; 4091; 4123; 4255; 4290; 4340; 4372; 4725; 5004; 5170; 5188
BscAI	GCATCNNNN!	9	793; 1417; 1432; 2100; 2863; 2935; 3583; 3647; 3922
BscAI	!NNNNNNGATGC	7	360; 1143; 1638; 3246; 3501; 3717; 5109
Bse1I	ACTGGN!	4	1598; 3229; 3430; 4676
Bse1I	C!CAGT	6	295; 915; 2314; 2992; 4788; 4801
Bse8I	GATNN!NNATC	2	1947; 3144
Bse21I	CC!TNAGG	2	2765; 4397
Bse118I	R!CCGGY	7	666; 1042; 1192; 2502; 3604; 3785; 4068
BseAI	T!CCGGA	0	
BseBI	CC!WGG	16	90; 283; 1087; 1212; 1324; 1399; 1453; 2821; 2876; 2893; 3672; 4251; 4354; 5044; 5057; 5178
BseCI	AT!CGAT	1	3125
BseDI	C!CNNGG	23	360; 649; 656; 1070; 1210; 1233; 1373; 1397; 1452; 2819; 2891; 3014; 3049; 3058; 3107; 3448; 3717; 4122; 4249; 4250; 4352; 4353; 5043
Bse3DI	GCAATGNN!	2	1773; 3518
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	7	1029; 1650; 1767; 3145; 3602; 3627; 4081
BseGI	!CATCC	3	1082; 1448; 2971
BseJI	GATNN!NNATC	2	1947; 3144
BseLI	CCNNNNN!NNGG	19	49; 986; 1211; 1374; 2297; 2623; 3015; 3266; 3810; 4091; 4123; 4255; 4290; 4340; 4372; 4725; 5004; 5170; 5188
BseMI	GCAATGNN!	2	1773; 3518
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	620; 4411
BseMII	!NNNNNNNNCTGAG	8	727; 898; 916; 2756; 3058; 3939; 4511; 4920
BseNI	ACTGGN!	4	1598; 3229; 3430; 4676
BseNI	C!CAGT	6	295; 915; 2314; 2992; 4788; 4801
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1072; 3103
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!	7	657; 1082; 1211; 1460; 3231; 3324; 4893
BseXI	GCAGCNNNNNNNN!	10	839; 1058; 1293; 1795; 2073; 3358; 3400; 3921; 4374; 4874
BseXI	!NNNNNNNNNNNGCTGC	8	872; 1187; 2567; 3232; 3416; 3509; 4575; 4781
BseX3I	C!GGCCG	2	1929; 3191
BseYI	C!CCAGC	3	2828; 2900; 4899
BseYI	G!CTGGG	1	3789
BsgI	GTGCAGNNNNNNNNNNNNNN!	2	853; 1802
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	1170
Bsh1236I	CG!CG	19	60; 651; 950; 1370; 1479; 1934; 2209; 2585; 2605; 2629; 2660; 3351; 3652; 4090; 4174; 4237; 4306; 4579; 5160
Bsh1285I	CGRY!CG	4	671; 1932; 3194; 4869
BshFI	GG!CC	27	84; 277; 655; 766; 793; 878; 1115; 1215; 1244; 1931; 2251; 2393; 3048; 3054; 3063; 3106; 3193; 3367; 3758; 3785; 4294; 4351; 4384; 4729; 5163; 5181; 5192
BshNI	G!GYRCC	9	465; 645; 1039; 1077; 1552; 1660; 2438; 3284; 3319
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	3125
BsiEI	CGRY!CG	4	671; 1932; 3194; 4869
BsiHKAI	GWGCW!C	5	620; 742; 3398; 3588; 4893
BsiHKCI	C!YCGRG	3	613; 656; 745
BsiSI	C!CGG	24	601; 657; 667; 986; 1043; 1070; 1133; 1193; 2503; 3190; 3267; 3289; 3317; 3448; 3538; 3605; 3786; 4061; 4069; 4161; 4635; 4825; 4851; 4998
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	19	49; 986; 1211; 1374; 2297; 2623; 3015; 3266; 3810; 4091; 4123; 4255; 4290; 4340; 4372; 4725; 5004; 5170; 5188
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3436; 3968; 4077
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2801; 2873; 2937; 4232
BsmI	GAATGCN!	1	2036
BsmI	G!CATTC	2	1741; 2129
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	1868; 2709; 3127; 4146; 4274

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BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	1868
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3436; 3968; 4077
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2801; 2873; 2937; 4232
BsnI	GG!CC	27	84; 277; 655; 766; 793; 878; 1115; 1215; 1244; 1931; 2251; 2393; 3048; 3054; 3063; 3106; 3193; 3367; 3758; 3785; 4294; 4351; 4384; 4729; 5163; 5181; 5192
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACG	1	4274
BsoBI	C!YCGRG	3	613; 656; 745
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	360; 3014; 3717
Bsp24I	GACNNNNNNTGGNNNNNNNNNN!	2	289; 4088
Bsp24I	!NNNNNNNCCANNNNNNNGTC	2	4509; 4687
Bsp24I	CCANNNNNNGTCTNNNNNNNNNNNN!	2	4541; 4719
Bsp24I	!NNNNNNNNGACNNNNNNNTGG	2	257; 4056
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 3967
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	27	585; 609; 660; 803; 951; 989; 1181; 1482; 1631; 1850; 1942; 3122; 3126; 3145; 3456; 3534; 3615; 3624; 3702; 4078; 4094; 4453; 4465; 4543; 4551; 4562; 4637
Bsp1286I	GDGCH!C	14	620; 657; 742; 1082; 1211; 1460; 2476; 3231; 3324; 3398; 3588; 3650; 4360; 4893
Bsp1407I	T!GTACA	1	1013
Bsp1720I	GC!TNAGC	1	736
BspACI	C!CGC	40	58; 86; 98; 112; 279; 507; 589; 649; 807; 980; 983; 1260; 1301; 1368; 1407; 1932; 2600; 2603; 2617; 2707; 2955; 2967; 2976; 2988; 2998; 3009; 3055; 3194; 3257; 3759; 3804; 3870; 3896; 4021; 4024; 4172; 4304; 4611; 4755; 5251
BspACI	G!CGG	27	370; 403; 528; 651; 1028; 1034; 1928; 2545; 2572; 2660; 2770; 3351; 3415; 3516; 3519; 3799; 3854; 3952; 4090; 4237; 4377; 4620; 4865; 4986; 5005; 5132; 5160
BspCNI	CTCAGNNNNNNNNN!	2	619; 4410
BspCNI	!NNNNNNNCTGAG	8	728; 899; 917; 2757; 3059; 3940; 4512; 4921
BspDI	AT!CGAT	1	3125
BspD6I	GACTCNNNN!	6	418; 612; 1944; 2358; 3964; 4841
BspD6I	!NNNNNNNGAGTC	3	1741; 2321; 2753
BspEI	T!CCGGA	0	
BspFNI	CG!CG	19	60; 651; 950; 1370; 1479; 1934; 2209; 2585; 2605; 2629; 2660; 3351; 3652; 4090; 4174; 4237; 4306; 4579; 5160
BspHI	T!CATGA	4	1583; 1802; 2711; 4483
BspLI	GGN!NCC	22	467; 647; 655; 662; 879; 1041; 1079; 1554; 1662; 2440; 2461; 2473; 2664; 2825; 2897; 3286; 3321; 4169; 4248; 4293; 5136; 5175
BspMI	ACCTGCNNNN!	2	3553; 4003
BspMI	!NNNNNNNNGCAGGT	1	3172
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	668; 997; 3153; 3464; 3710; 4102; 4461; 4559; 4645
BspPI	!NNNNNGATCC	7	580; 655; 798; 3529; 4073; 4460; 4557
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3629; 3839
BspTI	C!TTAAG	1	2167
BspT104I	TT!CGAA	2	627; 3967
BspT107I	G!GYRCC	9	465; 645; 1039; 1077; 1552; 1660; 2438; 3284; 3319
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	4274
BsrI	ACTGGN!	4	1598; 3229; 3430; 4676
BsrI	C!CAGT	6	295; 915; 2314; 2992; 4788; 4801
BsrBI	CCG!CTC	2	2709; 3898
BsrBI	GAG!CGG	2	2545; 3952
BsrDI	GCAATGNN!	2	1773; 3518
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	666; 1042; 1192; 2502; 3604; 3785; 4068
BsrGI	T!GTACA	1	1013
BsrSI	ACTGGN!	4	1598; 3229; 3430; 4676

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	C!CAGT	6	295; 915; 2314; 2992; 4788; 4801
BssAI	R!CCGGY	7	666; 1042; 1192; 2502; 3604; 3785; 4068
BssECI	C!CNNGG	23	360; 649; 656; 1070; 1210; 1233; 1373; 1397; 1452; 2819; 2891; 3014; 3049; 3058; 3107; 3448; 3717; 4122; 4249; 4250; 4352; 4353; 5043
BssHII	G!CGCGC	0	
BssKI	!CCNGG	24	88; 281; 655; 656; 985; 1069; 1085; 1210; 1322; 1397; 1451; 2819; 2874; 2891; 3287; 3447; 3670; 4060; 4249; 4352; 4824; 5042; 5055; 5176
BssMI	!GATC	27	585; 609; 660; 803; 951; 989; 1181; 1482; 1631; 1850; 1942; 3122; 3126; 3145; 3456; 3534; 3615; 3624; 3702; 4078; 4094; 4453; 4465; 4543; 4551; 4562; 4637
BssNI	GR!CGYC	7	122; 175; 258; 444; 3285; 3987; 4066
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4003; 5030
BssSI	C!TCGTG	2	1222; 3877
BssTII	C!CWWGG	5	360; 3014; 3107; 3717; 4122
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2752; 3629; 3839
Bst98I	C!TTAAG	1	2167
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	7	122; 175; 258; 444; 3285; 3987; 4066
BstAFI	C!TTAAG	1	2167
BstAPI	GCANNNN!NTGC	3	2852; 2924; 4386
BstAUI	T!GTACA	1	1013
BstBI	TT!CGAA	2	627; 3967
Bst2BI	C!ACGAG	2	4003; 5030
Bst2BI	C!TCGTG	2	1222; 3877
BstBAI	YAC!GTR	3	340; 2401; 3589
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 645; 1581; 2376; 3665; 3781; 3889; 4212; 4703; 5173; 5244
BstC8I	GCN!NGC	33	86; 279; 593; 653; 832; 839; 1165; 1198; 1260; 2504; 2547; 2561; 2834; 2853; 2906; 2925; 3179; 3365; 3584; 3650; 3656; 3688; 3729; 3733; 3787; 4070; 4257; 4304; 4360; 4382; 4593; 5153; 5190
BstDEI	C!TNAG	11	606; 736; 907; 925; 1812; 2765; 3067; 3948; 4397; 4520; 4929
BstDSI	C!CRYGG	4	360; 649; 3014; 3717
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	7	1029; 1650; 1767; 3145; 3602; 3627; 4081
BstF5I	!CATCC	3	1082; 1448; 2971
BstFNI	CG!CG	19	60; 651; 950; 1370; 1479; 1934; 2209; 2585; 2605; 2629; 2660; 3351; 3652; 4090; 4174; 4237; 4306; 4579; 5160
BstH2I	RGCGC!Y	5	598; 2552; 2560; 3288; 4963
BstHHI	GCG!C	24	597; 950; 1331; 1372; 2551; 2559; 2585; 2607; 2616; 2629; 2660; 3279; 3287; 3351; 3388; 3654; 3914; 4090; 4176; 4579; 4688; 4862; 4962; 5029
BstKTI	GAT!C	27	588; 612; 663; 806; 954; 992; 1184; 1485; 1634; 1853; 1945; 3125; 3129; 3148; 3459; 3537; 3618; 3627; 3705; 4081; 4097; 4456; 4468; 4546; 4554; 4565; 4640
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	5	1868; 2709; 3127; 4146; 4274
BstMBI	!GATC	27	585; 609; 660; 803; 951; 989; 1181; 1482; 1631; 1850; 1942; 3122; 3126; 3145; 3456; 3534; 3615; 3624; 3702; 4078; 4094; 4453; 4465; 4543; 4551; 4562; 4637
BstMCI	CGRY!CG	4	671; 1932; 3194; 4869
BstMWI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 721; 1046; 1133; 1193; 1206; 1250; 1485; 2512; 2542; 2569; 2611; 2852; 2924; 2975; 3054; 3276; 3360; 3383; 3522; 3645; 3728; 3995; 4182; 4386; 4585; 5157
BstNI	CC!WGG	16	90; 283; 1087; 1212; 1324; 1399; 1453; 2821; 2876; 2893; 3672; 4251; 4354; 5044; 5057; 5178
BstNSI	RCATG!Y	4	2855; 2927; 3690; 5207
BstOI	CC!WGG	16	90; 283; 1087; 1212; 1324; 1399; 1453; 2821; 2876; 2893; 3672; 4251; 4354; 5044; 5057; 5178
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSCI	!CCNGG	24	88; 281; 655; 656; 985; 1069; 1085; 1210; 1322; 1397; 1451; 2819; 2874; 2891; 3287; 3447; 3670; 4060; 4249; 4352; 4824; 5042; 5055; 5176
BstSFI	C!TRYAG	5	634; 725; 2620; 4747; 4938
BstSLI	GKGCMI!C	7	657; 1082; 1211; 1460; 3231; 3324; 4893
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 651; 950; 1370; 1479; 1934; 2209; 2585; 2605; 2629; 2660; 3351; 3652; 4090; 4174; 4237; 4306; 4579; 5160
Bst2UI	CC!WGG	16	90; 283; 1087; 1212; 1324; 1399; 1453; 2821; 2876; 2893; 3672; 4251; 4354; 5044; 5057; 5178
BstV1I	GCAGCNNNNNNNN!	10	839; 1058; 1293; 1795; 2073; 3358; 3400; 3921; 4374; 4874
BstV1I	!NNNNNNNNNNNGCTGC	8	872; 1187; 2567; 3232; 3416; 3509; 4575; 4781
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNNN!NTGG	0	
BstX2I	R!GATCY	11	585; 609; 660; 803; 3456; 3702; 4094; 4453; 4465; 4551; 4562
BstYI	R!GATCY	11	585; 609; 660; 803; 3456; 3702; 4094; 4453; 4465; 4551; 4562
BstZI	C!GGCCG	2	1929; 3191
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2714; 3504; 5005
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3125
Bsu36I	CC!TNAGG	2	2765; 4397
BsuRI	GG!CC	27	84; 277; 655; 766; 793; 878; 1115; 1215; 1244; 1931; 2251; 2393; 3048; 3054; 3063; 3106; 3193; 3367; 3758; 3785; 4294; 4351; 4384; 4729; 5163; 5181; 5192
BsuTUI	AT!CGAT	1	3125
BtgI	C!CRYGG	4	360; 649; 3014; 3717
BtgZI	GCGATGNNNNNNNNNN!	4	1163; 1562; 2402; 3737
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3556; 3900
BthCI	GCNG!C	37	830; 837; 888; 891; 985; 1049; 1203; 1284; 1786; 1934; 2064; 2583; 2605; 2619; 3057; 3196; 3248; 3259; 3349; 3354; 3391; 3432; 3519; 3525; 3761; 3857; 3898; 3912; 4026; 4365; 4380; 4591; 4797; 4800; 4865; 5008; 5163
BtrI	CAC!GTC	2	688; 1800
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2124
BtsCI	GGATGNN!	7	1029; 1650; 1767; 3145; 3602; 3627; 4081
BtsCI	!CATCC	3	1082; 1448; 2971
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3553; 4003
BveI	!NNNNNNNNNGCAGGT	1	3172
Cac8I	GCN!NGC	33	86; 279; 593; 653; 832; 839; 1165; 1198; 1260; 2504; 2547; 2561; 2834; 2853; 2906; 2925; 3179; 3365; 3584; 3650; 3656; 3688; 3729; 3733; 3787; 4070; 4257; 4304; 4360; 4382; 4593; 5153; 5190
CaiI	CAGNNN!CTG	3	1615; 4386; 4794
CciI	T!CATGA	4	1583; 1802; 2711; 4483
CciNI	GC!GGCCGC	1	1929
CdiI	CATC!G	8	352; 870; 1413; 1428; 3574; 3579; 3777; 3918
CdiI	C!GATG	4	1149; 1548; 2388; 3723
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5157
CdpI	!NNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2946; 2988
CelII	GC!TNAGC	1	736
CfoI	GCG!C	24	597; 950; 1331; 1372; 2551; 2559; 2585; 2607; 2616; 2629; 2660; 3279; 3287; 3351; 3388; 3654; 3914; 4090; 4176; 4579; 4688; 4862; 4962; 5029
CfrI	Y!GGCCR	7	764; 1113; 1929; 3191; 3365; 3756; 3783
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	7	666; 1042; 1192; 2502; 3604; 3785; 4068
Cfr13I	G!GNCC	12	83; 276; 654; 877; 960; 1214; 2392; 3801; 4246; 4292; 4350; 4383
Cfr42I	CCG!GG	1	652
ChaI	GATC!	27	589; 613; 664; 807; 955; 993; 1185; 1486; 1635; 1854; 1946; 3126; 3130; 3149; 3460; 3538; 3619; 3628; 3706; 4082; 4098; 4457; 4469; 4547; 4555; 4566; 4641



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	3102; 4542; 4642; 4720
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2769; 2864; 4056; 4606; 5161
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2803; 2898; 4090; 4640; 5195
CjeI	!NNNNNNNNCCANNNNNNNGT	4	3068; 4508; 4608; 4686
CjePI	CCANNNNNNTCANNNNNNNNNNNN!	2	4542; 4720
CjePI	!NNNNNNNNNGANNNNNNNNNTGG	3	257; 4056; 4655
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 4089; 4688
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	4509; 4687
Clai	AT!CGAT	1	3125
CpoI	CG!GWCCG	1	3801
CseI	GACGCNNNNN!	3	526; 3995; 4074
CseI	!NNNNNNNNNNGCGTC	3	2618; 4513; 5091
CsiI	A!CCWGGT	1	2874
CspI	CG!GWCCG	1	3801
Csp6I	G!TAC	11	218; 243; 298; 331; 382; 539; 646; 1014; 1470; 1903; 3590
Csp45I	TT!CGAA	2	627; 3967
CspAI	A!CCGGT	1	666
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1460; 2565; 4174
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	23	301; 361; 678; 762; 957; 1002; 1275; 1305; 1584; 1803; 2712; 2852; 2924; 3015; 3156; 3501; 3687; 3718; 3744; 4100; 4484; 5204; 5255
CviJI	RG!CY	101	42; 84; 93; 277; 566; 618; 624; 655; 724; 735; 740; 766; 793; 837; 878; 911; 1011; 1062; 1095; 1115; 1167; 1179; 1200; 1215; 1238; 1244; 1316; 1416; 1430; 1464; 1488; 1522; 1615; 1696; 1931; 1954; 2064; 2231; 2251; 2393; 2474; 2488; 2502; 2783; 2824; 2896; 3019; 3048; 3054; 3063; 3071; 3094; 3106; 3112; 3193; 3210; 3218; 3245; 3270; 3354; 3363; 3367; 3391; 3429; 3505; 3522; 3541; 3604; 3648; 3658; 3675; 3758; 3785; 3789; 3826; 3849; 3865; 4045; 4072; 4133; 4255; 4294; 4351; 4358; 4365; 4384; 4395; 4646; 4675; 4718; 4729; 4794; 4873; 4898; 4903; 4949; 5039; 5137; 5163; 5181; 5192
CviKI-1	RG!CY	101	42; 84; 93; 277; 566; 618; 624; 655; 724; 735; 740; 766; 793; 837; 878; 911; 1011; 1062; 1095; 1115; 1167; 1179; 1200; 1215; 1238; 1244; 1316; 1416; 1430; 1464; 1488; 1522; 1615; 1696; 1931; 1954; 2064; 2231; 2251; 2393; 2474; 2488; 2502; 2783; 2824; 2896; 3019; 3048; 3054; 3063; 3071; 3094; 3106; 3112; 3193; 3210; 3218; 3245; 3270; 3354; 3363; 3367; 3391; 3429; 3505; 3522; 3541; 3604; 3648; 3658; 3675; 3758; 3785; 3789; 3826; 3849; 3865; 4045; 4072; 4133; 4255; 4294; 4351; 4358; 4365; 4384; 4395; 4646; 4675; 4718; 4729; 4794; 4873; 4898; 4903; 4949; 5039; 5137; 5163; 5181; 5192
CviQI	G!TAC	11	218; 243; 298; 331; 382; 539; 646; 1014; 1470; 1903; 3590
DdeI	C!TNAG	11	606; 736; 907; 925; 1812; 2765; 3067; 3948; 4397; 4520; 4929
DinI	GGC!GCC	1	3286
DpnI	GA!TC	27	587; 611; 662; 805; 953; 991; 1183; 1484; 1633; 1852; 1944; 3124; 3128; 3147; 3458; 3536; 3617; 3626; 3704; 4080; 4096; 4455; 4467; 4545; 4553; 4564; 4639
DpnII	!GATC	27	585; 609; 660; 803; 951; 989; 1181; 1482; 1631; 1850; 1942; 3122; 3126; 3145; 3456; 3534; 3615; 3624; 3702; 4078; 4094; 4453; 4465; 4543; 4551; 4562; 4637
DraI	TTT!AAA	3	1987; 4429; 4448
DraII	RG!GNCCY	1	4383
DraIII	CACNNN!GTG	1	2401
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 1370; 4765
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	4	1882; 2356; 3312; 5101
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNGTCGTA	2	476; 670
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	1882; 2356; 3312; 5101
EaeI	Y!GGCCR	7	764; 1113; 1929; 3191; 3365; 3756; 3783
EagI	C!GGCCG	2	1929; 3191
Eam1104I	CTCTTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eam1104I	!NNNNGAAGAG	3	2752; 3629; 3839
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	3	2752; 3629; 3839
EciI	GGCGANNNNNNNNNN!	4	2785; 3814; 5001; 5147
EciI	!NNNNNNNNNTCCGCC	6	496; 796; 1290; 2956; 2977; 2998
Ecl136II	GAG!CTC	2	618; 740
EclXI	C!GGCCG	2	1929; 3191
Eco24I	GRGCY!C	6	620; 657; 742; 2476; 3650; 4360
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	4274
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	960; 3801; 4246
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1929; 3191
Eco57I	CTGAAGNNNNNNNNNNNNNN!	5	1195; 1267; 1438; 3431; 3863
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4661
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	2	2765; 4397
Eco88I	C!YCGRG	3	613; 656; 745
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	5	360; 3014; 3107; 3717; 4122
Eco147I	AGG!CCT	1	3106
EcoHI	!CCSGG	8	655; 656; 985; 1069; 3287; 3447; 4060; 4824
EcoICRI	GAG!CTC	2	618; 740
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	8	988; 1195; 1267; 1438; 1486; 3431; 3863; 4125
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	2	4068; 4661
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	4383
EcoRI	G!AATTC	3	629; 1510; 1897
EcoRII	!CCWGG	16	88; 281; 1085; 1210; 1322; 1397; 1451; 2819; 2874; 2891; 3670; 4249; 4352; 5042; 5055; 5176
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	360; 3014; 3107; 3717; 4122
EcoT22I	ATGCA!T	3	2857; 2929; 5260
EcoT38I	GRGCY!C	6	620; 657; 742; 2476; 3650; 4360
Eco53kI	GAG!CTC	2	618; 740
EgeI	GGC!GCC	1	3286
EheI	GGC!GCC	1	3286
ErhI	C!CWWGG	5	360; 3014; 3107; 3717; 4122
EsaBC3I	TC!GA	19	615; 628; 641; 747; 819; 1092; 1386; 1413; 2435; 3126; 3399; 3555; 3579; 3615; 3777; 3968; 4013; 4268; 5106
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	1	1868
FaeI	CATG!	23	304; 364; 681; 765; 960; 1005; 1278; 1308; 1587; 1806; 2715; 2855; 2927; 3018; 3159; 3504; 3690; 3721; 3747; 4103; 4487; 5207; 5258
Fail	YA!TR	65	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 727; 758; 763; 958; 1003; 1276; 1306; 1585; 1630; 1690; 1775; 1804; 1892; 1947; 1957; 2023; 2068; 2273; 2701; 2713; 2844; 2853; 2916; 2925; 2949; 3016; 3040; 3157; 3221; 3502; 3527; 3688; 3719; 3745; 3817; 4033; 4101; 4179; 4231; 4392; 4409; 4411; 4413; 4485; 4763; 4952; 5068; 5141; 5205; 5256
Fail	AAGNNNNNCTTNNNNNNNNNNNN!	3	813; 1539; 3625
Fail	!NNNNNNNNAAGNNNNNCTT	3	781; 1507; 3593
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3436; 3968; 4077
FaqI	!NNNNNNNNNNNNNGTCCC	4	2801; 2873; 2937; 4232
FatI	!CATG	23	300; 360; 677; 761; 956; 1001; 1274; 1304; 1583; 1802; 2711; 2851; 2923; 3014; 3155; 3500; 3686; 3717; 3743; 4099; 4483; 5203; 5254
FauI	CCCGCNNNN!	10	93; 119; 286; 1267; 1375; 2607; 2962; 2983; 4179; 4311
FauI	!NNNNNNGCGGG	6	644; 2538; 3408; 3945; 4083; 4230
FauNDI	CA!TATG	1	234

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FbaI	T!GATCA	3	1482; 1631; 1850
FblI	GT!MKAC	1	640
FmuI	GGNC!C	12	86; 279; 657; 880; 963; 1217; 2395; 3804; 4249; 4295; 4353; 4386
Fnu4HI	GC!NGC	37	828; 835; 886; 889; 983; 1047; 1201; 1282; 1784; 1932; 2062; 2581; 2603; 2617; 3055; 3194; 3246; 3257; 3347; 3352; 3389; 3430; 3517; 3523; 3759; 3855; 3896; 3910; 4024; 4363; 4378; 4589; 4795; 4798; 4863; 5006; 5161
FokI	GGATGNNNNNNNNN!	7	1036; 1657; 1774; 3152; 3609; 3634; 4088
FokI	!NNNNNNNNNNNNNNCATCC	3	1069; 1435; 2958
FriOI	GRGCY!C	6	620; 657; 742; 2476; 3650; 4360
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3387
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1697; 1940; 2134; 2552; 3108; 4123; 4457; 4710
FspEI	CCNNNNNNNNNNNN!	164	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 780; 807; 823; 855; 876; 892; 906; 928; 949; 976; 993; 1056; 1083; 1099; 1129; 1146; 1167; 1185; 1203; 1217; 1233; 1258; 1272; 1314; 1336; 1380; 1410; 1465; 1506; 1536; 1569; 1618; 1677; 1747; 1945; 1968; 2007; 2021; 2162; 2257; 2281; 2304; 2327; 2345; 2367; 2388; 2407; 2426; 2455; 2476; 2490; 2516; 2604; 2630; 2679; 2720; 2738; 2777; 2793; 2831; 2888; 2903; 2960; 2980; 2994; 3011; 3025; 3062; 3077; 3120; 3203; 3270; 3301; 3321; 3336; 3381; 3395; 3461; 3475; 3494; 3510; 3551; 3571; 3618; 3668; 3684; 3704; 3729; 3749; 3772; 3799; 3817; 3843; 3883; 3909; 3933; 3989; 4003; 4031; 4074; 4095; 4130; 4174; 4262; 4286; 4308; 4328; 4344; 4365; 4379; 4398; 4482; 4502; 4530; 4545; 4579; 4621; 4648; 4663; 4708; 4732; 4746; 4768; 4794; 4814; 4838; 4864; 4912; 4931; 4950; 4976; 5011; 5056; 5086; 5100; 5151; 5165; 5190; 5206; 5227; 5256
FspEI	!NNNNNNNNNNNNNNNGG	142	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 681; 713; 748; 767; 805; 854; 943; 971; 1006; 1028; 1055; 1081; 1118; 1145; 1178; 1197; 1220; 1298; 1330; 1360; 1384; 1405; 1423; 1450; 1501; 1529; 1552; 1572; 1609; 1627; 1678; 1723; 1744; 1799; 1856; 1913; 1956; 2056; 2125; 2155; 2233; 2282; 2304; 2332; 2368; 2413; 2442; 2478; 2497; 2525; 2545; 2608; 2631; 2739; 2771; 2789; 2818; 2861; 2890; 3001; 3030; 3073; 3094; 3122; 3155; 3175; 3200; 3227; 3252; 3274; 3302; 3328; 3349; 3400; 3421; 3439; 3487; 3523; 3579; 3604; 3628; 3657; 3680; 3704; 3730; 3752; 3771; 3796; 3836; 3872; 3937; 4022; 4046; 4075; 4109; 4130; 4150; 4195; 4222; 4241; 4274; 4326; 4357; 4384; 4436; 4534; 4605; 4650; 4711; 4776; 4810; 4836; 4854; 4890; 4960; 4983; 5005; 5029; 5062; 5110; 5145; 5163; 5220
Fsp4HI	GC!NGC	37	828; 835; 886; 889; 983; 1047; 1201; 1282; 1784; 1932; 2062; 2581; 2603; 2617; 3055; 3194; 3246; 3257; 3347; 3352; 3389; 3430; 3517; 3523; 3759; 3855; 3896; 3910; 4024; 4363; 4378; 4589; 4795; 4798; 4863; 5006; 5161
GdiI	C!GGCCR	3	1113; 1929; 3191
GdiI	Y!GGCCG	5	764; 1929; 3191; 3756; 3783
GlaI	GC!GC	24	596; 949; 1330; 1371; 2550; 2558; 2584; 2606; 2615; 2628; 2659; 3278; 3286; 3350; 3387; 3653; 3913; 4089; 4175; 4578; 4687; 4861; 4961; 5028
GluI	GC!NGC	37	828; 835; 886; 889; 983; 1047; 1201; 1282; 1784; 1932; 2062; 2581; 2603; 2617; 3055; 3194; 3246; 3257; 3347; 3352; 3389; 3430; 3517; 3523; 3759; 3855; 3896; 3910; 4024; 4363; 4378; 4589; 4795; 4798; 4863; 5006; 5161
GsaI	CCCAG!C	3	2832; 2904; 4903
GsaI	GCTGG!G	1	3793
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	988; 1486; 4125
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	4068
HaeI	WGG!CCW	6	793; 3106; 3367; 4729; 5181; 5192
HaeII	RGCG!Y	5	598; 2552; 2560; 3288; 4963
HaeIII	GG!CC	27	84; 277; 655; 766; 793; 878; 1115; 1215; 1244; 1931; 2251; 2393; 3048; 3054; 3063; 3106; 3193; 3367; 3758; 3785; 4294; 4351; 4384; 4729; 5163; 5181; 5192
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1960; 3481
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1926; 3447
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1959; 3480

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1928; 3449
HapII	C!CGG	24	601; 657; 667; 986; 1043; 1070; 1133; 1193; 2503; 3190; 3267; 3289; 3317; 3448; 3538; 3605; 3786; 4061; 4069; 4161; 4635; 4825; 4851; 4998
HgaI	GACGCNNNNN!	3	526; 3995; 4074
HgaI	!NNNNNNNNNNNGCGTC	3	2618; 4513; 5091
HhaI	GCG!C	24	597; 950; 1331; 1372; 2551; 2559; 2585; 2607; 2616; 2629; 2660; 3279; 3287; 3351; 3388; 3654; 3914; 4090; 4176; 4579; 4688; 4862; 4962; 5029
HinI	GR!CGYC	7	122; 175; 258; 444; 3285; 3987; 4066
HinIII	CATG!	23	304; 364; 681; 765; 960; 1005; 1278; 1308; 1587; 1806; 2715; 2855; 2927; 3018; 3159; 3504; 3690; 3721; 3747; 4103; 4487; 5207; 5258
Hin4I	GAYNNNNNVTCNNNNNNNNNNN!	2	1959; 3480
Hin4I	!NNNNNNNNGABNNNNNRTC	3	1927; 3448; 3478
Hin4I	GABNNNNNRTCNNNNNNNNNNN!	3	1959; 3480; 3510
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	1927; 3448
Hin6I	G!CGC	24	595; 948; 1329; 1370; 2549; 2557; 2583; 2605; 2614; 2627; 2658; 3277; 3285; 3349; 3386; 3652; 3912; 4088; 4174; 4577; 4686; 4860; 4960; 5027
HinPII	G!CGC	24	595; 948; 1329; 1370; 2549; 2557; 2583; 2605; 2614; 2627; 2658; 3277; 3285; 3349; 3386; 3652; 3912; 4088; 4174; 4577; 4686; 4860; 4960; 5027
HincII	GTY!RAC	3	641; 1887; 2048
HindII	GTY!RAC	3	641; 1887; 2048
HindIII	A!AGCTT	1	622
Hinfl	G!ANTC	14	410; 604; 1748; 1936; 2328; 2350; 2760; 3770; 3904; 3956; 4014; 4051; 4833; 5229
HpaI	GTT!AAC	1	2048
HpaII	C!CGG	24	601; 657; 667; 986; 1043; 1070; 1133; 1193; 2503; 3190; 3267; 3289; 3317; 3448; 3538; 3605; 3786; 4061; 4069; 4161; 4635; 4825; 4851; 4998
HphI	GGTGANNNNNNN!	5	376; 1389; 1413; 4356; 4472
HphI	!NNNNNNNTCACC	3	1059; 2402; 3463
Hpy8I	GTN!NAC	13	201; 539; 577; 641; 1067; 1110; 1404; 1887; 2048; 2332; 2349; 2404; 4891
Hpy99I	CGWCG!	13	645; 692; 820; 877; 1108; 1354; 3375; 3403; 3697; 3712; 3989; 4374; 5107
Hpy166II	GTN!NAC	13	201; 539; 577; 641; 1067; 1110; 1404; 1887; 2048; 2332; 2349; 2404; 4891
Hpy188I	TCN!GA	16	585; 609; 721; 1601; 1747; 1855; 2459; 3068; 3252; 3596; 3949; 4050; 4529; 4663; 5016; 5094
Hpy188III	TC!NNGA	28	613; 747; 801; 924; 975; 1224; 1584; 1803; 1940; 2712; 2764; 3077; 3130; 3303; 3619; 3628; 3711; 3767; 3811; 3901; 3934; 4003; 4484; 4558; 4641; 4739; 4837; 4971
HpyAV	CCTTCNNNNN!	4	1533; 3930; 4037; 4716
HpyAV	!NNNNNNGAAGG	9	1306; 1413; 2518; 3413; 4142; 4158; 4341; 4658; 4968
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 645; 1581; 2376; 3665; 3781; 3889; 4212; 4703; 5173; 5244
HpyCH4IV	A!CGT	22	122; 134; 175; 258; 339; 444; 687; 752; 815; 1019; 1106; 1319; 1794; 1799; 2345; 2357; 2400; 2510; 3401; 3588; 4369; 4502
HpyCH4V	TG!CA	22	636; 834; 1187; 1623; 1783; 1918; 2034; 2061; 2129; 2846; 2855; 2918; 2927; 3042; 3118; 3177; 3336; 3511; 3525; 4595; 4891; 5258
HpyF3I	C!TNAG	11	606; 736; 907; 925; 1812; 2765; 3067; 3948; 4397; 4520; 4929
HpyF10VI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 721; 1046; 1133; 1193; 1206; 1250; 1485; 2512; 2542; 2569; 2611; 2852; 2924; 2975; 3054; 3276; 3360; 3383; 3522; 3645; 3728; 3995; 4182; 4386; 4585; 5157
Hsp92I	GR!CGYC	7	122; 175; 258; 444; 3285; 3987; 4066
Hsp92II	CATG!	23	304; 364; 681; 765; 960; 1005; 1278; 1308; 1587; 1806; 2715; 2855; 2927; 3018; 3159; 3504; 3690; 3721; 3747; 4103; 4487; 5207; 5258
HspAI	G!CGC	24	595; 948; 1329; 1370; 2549; 2557; 2583; 2605; 2614; 2627; 2658; 3277; 3285; 3349; 3386; 3652; 3912; 4088; 4174; 4577; 4686; 4860; 4960; 5027
KasI	G!GCGCC	1	3284
KfII	GG!GWCCC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
KpnI	GGTAC!C	1	649
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	652
Ksp22I	T!GATCA	3	1482; 1631; 1850
KspAI	GTT!AAC	1	2048
Kzo9I	!GATC	27	585; 609; 660; 803; 951; 989; 1181; 1482; 1631; 1850; 1942; 3122; 3126; 3145; 3456; 3534; 3615; 3624; 3702; 4078; 4094; 4453; 4465; 4543; 4551; 4562; 4637
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3629; 3839
LpnI	RGCI!GCY	5	596; 2550; 2558; 3286; 4961
LpnPI	CCDGNNNNNNNNN!	64	102; 295; 614; 670; 865; 919; 937; 976; 999; 1056; 1083; 1099; 1146; 1186; 1206; 1224; 1258; 1336; 1411; 1465; 2022; 2327; 2516; 2739; 2777; 2793; 2833; 2888; 2905; 3005; 3090; 3203; 3280; 3302; 3325; 3461; 3475; 3494; 3551; 3618; 3668; 3684; 3741; 3799; 4008; 4074; 4098; 4174; 4263; 4366; 4399; 4630; 4648; 4794; 4814; 4838; 4864; 4913; 5011; 5056; 5086; 5165; 5190; 5227
LpnPI	!NNNNNNNNNNNNNCHGG	60	75; 268; 552; 586; 642; 692; 952; 971; 1028; 1055; 1081; 1118; 1178; 1197; 1309; 1384; 1438; 1579; 1609; 2368; 2488; 2545; 2608; 2806; 2818; 2878; 2890; 3122; 3167; 3210; 3252; 3274; 3302; 3349; 3411; 3433; 3523; 3590; 3613; 3657; 3752; 3771; 3796; 3945; 4046; 4089; 4146; 4236; 4339; 4366; 4384; 4620; 4657; 4810; 4836; 4976; 4994; 5029; 5110; 5163
Lsp1109I	GCAGCNNNNNNNN!	10	839; 1058; 1293; 1795; 2073; 3358; 3400; 3921; 4374; 4874
Lsp1109I	!NNNNNNNNNNNGCTGC	8	872; 1187; 2567; 3232; 3416; 3509; 4575; 4781
LweI	GCATCNNNNN!	9	794; 1418; 1433; 2101; 2864; 2936; 3584; 3648; 3923
LweI	!NNNNNNNNNGATGC	7	357; 1140; 1635; 3243; 3498; 3714; 5106
MabI	A!CCWGGT	1	2874
MaeI	C!TAG	9	592; 1697; 1940; 2134; 2552; 3108; 4123; 4457; 4710
MaeII	A!CGT	22	122; 134; 175; 258; 339; 444; 687; 752; 815; 1019; 1106; 1319; 1794; 1799; 2345; 2357; 2400; 2510; 3401; 3588; 4369; 4502
MaeIII	!GTNAC	17	61; 148; 497; 709; 975; 1224; 1589; 1795; 2073; 2574; 2586; 3405; 3711; 4401; 4667; 4783; 4846
MalI	GA!TC	27	587; 611; 662; 805; 953; 991; 1183; 1484; 1633; 1852; 1944; 3124; 3128; 3147; 3458; 3536; 3617; 3626; 3704; 4080; 4096; 4455; 4467; 4545; 4553; 4564; 4639
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	5	144; 197; 466; 540; 1692
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2709; 3898
MbiI	GAG!CGG	2	2545; 3952
MboI	!GATC	27	585; 609; 660; 803; 951; 989; 1181; 1482; 1631; 1850; 1942; 3122; 3126; 3145; 3456; 3534; 3615; 3624; 3702; 4078; 4094; 4453; 4465; 4543; 4551; 4562; 4637
MboII	GAAGANNNNNNNN!	10	789; 1507; 1735; 1846; 1906; 2541; 2769; 3646; 3856; 4475
MboII	!NNNNNNNTCTTC	6	1284; 1329; 3936; 4103; 4303; 4546
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2035
MfiI	R!GATCY	11	585; 609; 660; 803; 3456; 3702; 4094; 4453; 4465; 4551; 4562
MhII	GDGCH!C	14	620; 657; 742; 1082; 1211; 1460; 2476; 3231; 3324; 3398; 3588; 3650; 4360; 4893
MisI	TGG!CCA	1	3367
MluI	A!CGCGT	1	1477
MluNI	TGG!CCA	1	3367
MlyI	GAGTCNNNNN!	3	1757; 2337; 2769
MlyI	!NNNNNGACTC	6	404; 598; 1930; 2344; 3950; 4827
Mly113I	GG!CGCC	1	3285
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	2378
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4810; 4994
MnII	CCTCNNNNNNN!	9	1231; 1243; 2004; 3068; 3886; 4092; 4406; 4776; 5100
MnII	!NNNNNNGAGG	21	541; 813; 1050; 1131; 1368; 1380; 1431; 1580; 1731; 1964; 2429; 2760; 3038; 3081; 3096; 3136; 3200; 3336; 3693; 4123; 5026
Mph1103I	ATGCA!T	3	2857; 2929; 5260
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MroNI	G!CCGGC	3	2502; 3785; 4068
MroXI	GAANN!NNTTC	1	1252
MscI	TGG!CCA	1	3367
MseI	T!TAA	15	7; 1986; 2047; 2168; 2189; 2200; 2212; 2223; 2240; 2338; 2609; 4428; 4442; 4447; 4499
MslI	CAYNN!NNRTG	5	365; 1072; 1222; 1399; 3722
MspI	C!CGG	24	601; 657; 667; 986; 1043; 1070; 1133; 1193; 2503; 3190; 3267; 3289; 3317; 3448; 3538; 3605; 3786; 4061; 4069; 4161; 4635; 4825; 4851; 4998
Msp20I	TGG!CCA	1	3367
MspA1I	CMG!CKG	6	651; 1488; 2783; 3391; 4620; 4865
MspCI	C!TTAAG	1	2167
MspJI	CNNRRNNNNNNNN!	269	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 613; 627; 640; 662; 679; 698; 719; 732; 748; 774; 787; 801; 823; 843; 864; 877; 892; 905; 918; 936; 949; 967; 987; 1009; 1032; 1055; 1068; 1082; 1098; 1119; 1140; 1155; 1169; 1185; 1205; 1218; 1234; 1257; 1271; 1285; 1308; 1321; 1335; 1356; 1374; 1398; 1411; 1425; 1446; 1464; 1477; 1490; 1505; 1520; 1542; 1572; 1585; 1606; 1622; 1636; 1661; 1687; 1709; 1727; 1747; 1770; 1799; 1815; 1837; 1866; 1890; 1914; 1931; 1945; 1958; 1973; 1992; 2009; 2022; 2063; 2077; 2090; 2108; 2146; 2161; 2179; 2220; 2244; 2264; 2282; 2303; 2326; 2358; 2373; 2395; 2413; 2426; 2447; 2464; 2477; 2490; 2506; 2519; 2549; 2564; 2589; 2607; 2620; 2635; 2659; 2673; 2697; 2722; 2738; 2776; 2792; 2831; 2845; 2859; 2887; 2903; 2917; 2931; 2960; 2973; 2994; 3003; 3025; 3055; 3071; 3089; 3119; 3142; 3166; 3190; 3209; 3237; 3263; 3279; 3292; 3315; 3329; 3349; 3362; 3376; 3395; 3409; 3422; 3438; 3453; 3466; 3482; 3497; 3513; 3538; 3557; 3573; 3586; 3599; 3617; 3631; 3645; 3661; 3683; 3699; 3718; 3740; 3756; 3779; 3798; 3812; 3828; 3842; 3862; 3878; 3891; 3913; 3946; 3960; 3980; 3993; 4007; 4061; 4074; 4097; 4110; 4129; 4146; 4173; 4209; 4242; 4261; 4286; 4307; 4334; 4347; 4364; 4378; 4393; 4409; 4469; 4494; 4510; 4532; 4545; 4559; 4590; 4604; 4629; 4647; 4662; 4675; 4694; 4707; 4722; 4751; 4770; 4788; 4813; 4828; 4847; 4863; 4882; 4900; 4916; 4930; 4949; 4976; 4999; 5021; 5040; 5055; 5068; 5085; 5105; 5132; 5145; 5164; 5189; 5212; 5226; 5239; 5256
MspJI	!NNNNNNNNNNNNYNG	220	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 593; 612; 636; 653; 672; 693; 714; 731; 748; 775; 792; 817; 838; 855; 878; 901; 928; 949; 972; 994; 1029; 1056; 1073; 1105; 1123; 1145; 1170; 1190; 1208; 1226; 1245; 1271; 1291; 1309; 1330; 1348; 1370; 1399; 1420; 1438; 1462; 1501; 1520; 1559; 1580; 1610; 1661; 1683; 1719; 1739; 1764; 1784; 1839; 1868; 1886; 1919; 1937; 1966; 1995; 2037; 2120; 2155; 2182; 2205; 2234; 2278; 2300; 2332; 2368; 2385; 2406; 2443; 2463; 2480; 2497; 2532; 2550; 2568; 2585; 2609; 2631; 2658; 2686; 2712; 2750; 2771; 2788; 2806; 2829; 2850; 2878; 2901; 2922; 2940; 2961; 2978; 3001; 3025; 3045; 3063; 3085; 3116; 3138; 3164; 3183; 3200; 3228; 3247; 3266; 3284; 3302; 3323; 3345; 3369; 3402; 3422; 3440; 3461; 3487; 3514; 3531; 3548; 3565; 3591; 3613; 3635; 3653; 3673; 3692; 3714; 3752; 3772; 3796; 3816; 3836; 3863; 3887; 3920; 3939; 3967; 3989; 4018; 4046; 4071; 4090; 4109; 4130; 4147; 4164; 4195; 4222; 4242; 4265; 4285; 4322; 4339; 4358; 4384; 4404; 4443; 4470; 4489; 4507; 4544; 4562; 4603; 4621; 4647; 4664; 4696; 4725; 4753; 4774; 4797; 4816; 4837; 4855; 4872; 4890; 4916; 4937; 4957; 4977; 4995; 5016; 5042; 5059; 5078; 5097; 5126; 5145; 5163; 5182; 5200; 5218; 5241
MspR9I	CC!NGG	24	90; 283; 657; 658; 987; 1071; 1087; 1212; 1324; 1399; 1453; 2821; 2876; 2893; 3289; 3449; 3672; 4062; 4251; 4354; 4826; 5044; 5057; 5178
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2035
MvaI	CC!WGG	16	90; 283; 1087; 1212; 1324; 1399; 1453; 2821; 2876; 2893; 3672; 4251; 4354; 5044; 5057; 5178
Mva1269I	GAATGCN!	1	2036
Mva1269I	G!CATTC	2	1741; 2129
MvnI	CG!CG	19	60; 651; 950; 1370; 1479; 1934; 2209; 2585; 2605; 2629; 2660; 3351; 3652; 4090; 4174; 4237; 4306; 4579; 5160

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 721; 1046; 1133; 1193; 1206; 1250; 1485; 2512; 2542; 2569; 2611; 2852; 2924; 2975; 3054; 3276; 3360; 3383; 3522; 3645; 3728; 3995; 4182; 4386; 4585; 5157
NaeI	GCC!GGC	3	2504; 3787; 4070
NarI	GG!CGCC	1	3285
NciI	CC!SGG	8	657; 658; 987; 1071; 3289; 3449; 4062; 4826
NcoI	C!CATGG	3	360; 3014; 3717
NdeI	CA!TATG	1	234
NdeII	!GATC	27	585; 609; 660; 803; 951; 989; 1181; 1482; 1631; 1850; 1942; 3122; 3126; 3145; 3456; 3534; 3615; 3624; 3702; 4078; 4094; 4453; 4465; 4543; 4551; 4562; 4637
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	2502; 3785; 4068
NheI	G!CTAGC	1	591
NlaIII	CATG!	23	304; 364; 681; 765; 960; 1005; 1278; 1308; 1587; 1806; 2715; 2855; 2927; 3018; 3159; 3504; 3690; 3721; 3747; 4103; 4487; 5207; 5258
NlaIV	GGN!NCC	22	467; 647; 655; 662; 879; 1041; 1079; 1554; 1662; 2440; 2461; 2473; 2664; 2825; 2897; 3286; 3321; 4169; 4248; 4293; 5136; 5175
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	5	707; 1581; 2117; 2432; 4024
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 5096
Nli3877I	CYCGR!G	3	617; 660; 749
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1398; 3074; 3510
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	3	977; 1214; 3039
NmeDI	RCCGGYNNNNNNN!	7	678; 1054; 1204; 2514; 3616; 3797; 4080
NmeDI	!NNNNNNNNNNNNRCCGGY	7	653; 1029; 1179; 2489; 3591; 3772; 4055
NmuCI	!GTSAC	8	709; 975; 1224; 1589; 1795; 2574; 3405; 3711
NotI	GC!GGCCGC	1	1929
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3387
NsiI	ATGCA!T	3	2857; 2929; 5260
NspI	RCATG!Y	4	2855; 2927; 3690; 5207
NspV	TT!CGAA	2	627; 3967
OliI	CACNN!NNGTG	3	1072; 1222; 1399
PabI	GTA!C	11	220; 245; 300; 333; 384; 541; 648; 1016; 1472; 1905; 3592
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2855; 2927; 3690
PaeR7I	C!TCGAG	2	613; 745
PagI	T!CATGA	4	1583; 1802; 2711; 4483
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4250; 4353
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	3106
PciI	A!CATGT	1	5203
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3629; 3839
PcsI	WCGNNNN!NNNCGW	8	947; 1004; 3579; 3656; 3899; 3973; 4366; 4884
PctI	GAATGCN!	1	2036
PctI	G!CATTC	2	1741; 2129
PdiI	GCC!GGC	3	2504; 3787; 4070
PdmI	GAANN!NNTTC	1	1252
PfeI	G!AWTC	5	3770; 3904; 4014; 4051; 5229
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3403
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	2	1322; 4060
PhoI	GG!CC	27	84; 277; 655; 766; 793; 878; 1115; 1215; 1244; 1931; 2251; 2393; 3048; 3054; 3063; 3106; 3193; 3367; 3758; 3785; 4294; 4351; 4384; 4729; 5163; 5181; 5192
PinAI	A!CCGGT	1	666

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	1	3666
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	1629; 3231; 3486
PleI	GAGTCNNNN!	3	1756; 2336; 2768
PleI	!NNNNNGACTC	6	404; 598; 1930; 2344; 3950; 4827
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2367
PpiI	!NNNNNNNNNGAGNNNNNGTTC	3	1048; 1366; 4497
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	3	1080; 1398; 4529
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2335
PpsI	GAGTCNNNN!	3	1756; 2336; 2768
PpsI	!NNNNNGACTC	6	404; 598; 1930; 2344; 3950; 4827
Ppu10I	A!TGCAT	3	2853; 2925; 5256
Ppu21I	YAC!GTR	3	340; 2401; 3589
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	5203
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2068; 2273
Psp03I	GGWC!C	3	963; 3804; 4249
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	16	88; 281; 1085; 1210; 1322; 1397; 1451; 2819; 2874; 2891; 3670; 4249; 4352; 5042; 5055; 5176
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	2	620; 742
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	16	88; 281; 1085; 1210; 1322; 1397; 1451; 2819; 2874; 2891; 3670; 4249; 4352; 5042; 5055; 5176
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 647; 655; 662; 879; 1041; 1079; 1554; 1662; 2440; 2461; 2473; 2664; 2825; 2897; 3286; 3321; 4169; 4248; 4293; 5136; 5175
PspOMI	G!GGCCC	1	653
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 3015; 4014
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3417
PspPI	G!GNCC	12	83; 276; 654; 877; 960; 1214; 2392; 3801; 4246; 4292; 4350; 4383
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNNNN!	3	2838; 2910; 4416
PspPRI	!NNNNNNNNNNNNNNNNNNCTGRGG	3	1439; 2751; 3946
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGNC!CY	1	4386
PstI	CTGCA!G	1	638
PstNI	CAGNNN!CTG	3	1615; 4386; 4794
PsuI	R!GATCY	11	585; 609; 660; 803; 3456; 3702; 4094; 4453; 4465; 4551; 4562
PsyI	GACN!NNGTC	1	3403
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1488; 2783; 3391
RcaI	T!CATGA	4	1583; 1802; 2711; 4483
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	3800
RceI	!NNNNNNNNNNNNNNNNNNNGTTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNNNN!	1	2014
RleAI	!NNNNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNNCTGCGGG	0	



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNNNN!	1	845
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	11	219; 244; 299; 332; 383; 540; 647; 1015; 1471; 1904; 3591
RsaNI	G!TAC	11	218; 243; 298; 331; 382; 539; 646; 1014; 1470; 1903; 3590
RseI	CAYNN!NNRTG	5	365; 1072; 1222; 1399; 3722
RsrII	CG!GWCCG	1	3801
Rsr2I	CG!GWCCG	1	3801
SacI	GAGCT!C	2	620; 742
SacII	CCGC!GG	1	652
SalI	G!TCGAC	1	639
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	3629; 3839
SaqAI	T!TAA	15	7; 1986; 2047; 2168; 2189; 2200; 2212; 2223; 2240; 2338; 2609; 4428; 4442; 4447; 4499
SatI	GC!NGC	37	828; 835; 886; 889; 983; 1047; 1201; 1282; 1784; 1932; 2062; 2581; 2603; 2617; 3055; 3194; 3246; 3257; 3347; 3352; 3389; 3430; 3517; 3523; 3759; 3855; 3896; 3910; 4024; 4363; 4378; 4589; 4795; 4798; 4863; 5006; 5161
Sau96I	G!GNCC	12	83; 276; 654; 877; 960; 1214; 2392; 3801; 4246; 4292; 4350; 4383
Sau3AI	!GATC	27	585; 609; 660; 803; 951; 989; 1181; 1482; 1631; 1850; 1942; 3122; 3126; 3145; 3456; 3534; 3615; 3624; 3702; 4078; 4094; 4453; 4465; 4543; 4551; 4562; 4637
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	1757; 2337; 2769
SchI	!NNNNNGACTC	6	404; 598; 1930; 2344; 3950; 4827
SciI	CTC!GAG	2	615; 747
ScrFI	CC!NGG	24	90; 283; 657; 658; 987; 1071; 1087; 1212; 1324; 1399; 1453; 2821; 2876; 2893; 3289; 3449; 3672; 4062; 4251; 4354; 4826; 5044; 5057; 5178
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	7	801; 1350; 1636; 2863; 2935; 3104; 5046
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	3440; 3925
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	14	620; 657; 742; 1082; 1211; 1460; 2476; 3231; 3324; 3398; 3588; 3650; 4360; 4893
SelI	!CGCG	19	58; 649; 948; 1368; 1477; 1932; 2207; 2583; 2603; 2627; 2658; 3349; 3650; 4088; 4172; 4235; 4304; 4577; 5158
SetI	ASST!	79	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 690; 711; 726; 732; 742; 755; 818; 839; 908; 913; 1013; 1022; 1064; 1097; 1109; 1159; 1169; 1181; 1202; 1322; 1379; 1418; 1466; 1490; 1591; 1617; 1797; 1802; 1975; 1996; 2005; 2017; 2066; 2233; 2348; 2360; 2403; 2440; 2490; 2513; 2637; 2785; 2880; 3073; 3186; 3314; 3393; 3404; 3476; 3547; 3591; 3851; 3997; 4041; 4372; 4403; 4462; 4505; 4648; 4669; 4768; 4905; 4920; 4939; 4951; 4995; 5041; 5092
SexAI	A!CCWGGT	1	2874
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	9	794; 1418; 1433; 2101; 2864; 2936; 3584; 3648; 3923
SfaNI	!NNNNNNNNNGATGC	7	357; 1140; 1635; 3243; 3498; 3714; 5106
SfcI	C!TRYAG	5	634; 725; 2620; 4747; 4938
SfiI	GGCCNNNN!NGGCC	1	3060
SfoI	GGC!GCC	1	3286
Sfr274I	C!TCGAG	2	613; 745
Sfr303I	CCGC!GG	1	652
SfuI	TT!CGAA	2	627; 3967

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	206	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 698; 719; 757; 774; 801; 831; 850; 864; 892; 918; 936; 954; 969; 987; 1009; 1032; 1055; 1068; 1082; 1098; 1131; 1145; 1176; 1205; 1218; 1234; 1257; 1271; 1287; 1308; 1321; 1335; 1356; 1374; 1398; 1411; 1425; 1446; 1464; 1477; 1490; 1527; 1585; 1606; 1636; 1687; 1709; 1747; 1770; 1810; 1894; 1945; 1992; 2021; 2063; 2146; 2220; 2304; 2326; 2358; 2395; 2413; 2432; 2447; 2489; 2506; 2523; 2558; 2572; 2589; 2611; 2635; 2659; 2724; 2738; 2776; 2792; 2832; 2845; 2864; 2887; 2904; 2917; 2936; 2966; 2987; 3004; 3027; 3062; 3089; 3120; 3142; 3168; 3190; 3209; 3237; 3273; 3292; 3315; 3329; 3349; 3362; 3376; 3395; 3409; 3428; 3460; 3474; 3487; 3513; 3544; 3557; 3574; 3591; 3605; 3622; 3640; 3655; 3683; 3699; 3718; 3740; 3756; 3779; 3798; 3823; 3842; 3862; 3889; 3913; 3946; 3965; 3993; 4007; 4073; 4097; 4112; 4135; 4156; 4173; 4221; 4248; 4262; 4291; 4315; 4348; 4365; 4385; 4398; 4411; 4469; 4496; 4515; 4545; 4570; 4590; 4604; 4629; 4647; 4684; 4722; 4751; 4779; 4793; 4813; 4828; 4849; 4863; 4882; 4900; 4916; 4956; 4976; 5003; 5021; 5042; 5055; 5068; 5085; 5109; 5132; 5164; 5189; 5216; 5238
SgeI	!NNNNNNNNNNNNCNG	181	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 672; 693; 731; 748; 775; 805; 824; 866; 892; 910; 928; 949; 972; 994; 1029; 1056; 1073; 1105; 1123; 1150; 1179; 1197; 1220; 1245; 1271; 1291; 1309; 1330; 1348; 1372; 1399; 1420; 1438; 1462; 1501; 1559; 1580; 1610; 1661; 1683; 1721; 1744; 1784; 1868; 1919; 1966; 1995; 2037; 2120; 2194; 2278; 2300; 2332; 2369; 2387; 2406; 2463; 2480; 2497; 2532; 2550; 2570; 2590; 2609; 2633; 2698; 2750; 2806; 2838; 2861; 2878; 2910; 2940; 2961; 2978; 3001; 3036; 3063; 3094; 3116; 3142; 3164; 3183; 3211; 3247; 3266; 3289; 3310; 3328; 3345; 3369; 3402; 3434; 3461; 3487; 3518; 3548; 3565; 3591; 3614; 3635; 3657; 3677; 3697; 3714; 3753; 3772; 3797; 3816; 3836; 3863; 3887; 3920; 3939; 3967; 3989; 4047; 4071; 4090; 4109; 4130; 4147; 4195; 4222; 4242; 4265; 4289; 4322; 4339; 4359; 4385; 4443; 4470; 4489; 4519; 4544; 4564; 4603; 4621; 4658; 4696; 4725; 4753; 4774; 4802; 4823; 4856; 4874; 4930; 4950; 4977; 4995; 5016; 5042; 5059; 5083; 5106; 5138; 5163; 5190; 5212; 5241
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	652
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	5	27; 1597; 2432; 4219; 5012
SimI	!GACCC	7	106; 933; 1169; 1364; 3713; 4281; 4529
SinI	G!GWCC	3	960; 3801; 4246
SlaI	C!TCGAG	2	613; 745
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 1072; 1222; 1399; 3722
SmlI	C!TYRAG	8	613; 619; 745; 2167; 3676; 4558; 4835; 5097
SmoI	C!TYRAG	8	613; 619; 745; 2167; 3676; 4558; 4835; 5097
SmuI	CCCGCNNNN!	10	93; 119; 286; 1267; 1375; 2607; 2962; 2983; 4179; 4311
SmuI	!NNNNNNGCGGG	6	644; 2538; 3408; 3945; 4083; 4230
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2855; 2927; 3690
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	15	18; 629; 1510; 1618; 1678; 1897; 2035; 2099; 2177; 2203; 2214; 2861; 2933; 3025; 4443
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	3106
SsiI	C!CGC	40	58; 86; 98; 112; 279; 507; 589; 649; 807; 980; 983; 1260; 1301; 1368; 1407; 1932; 2600; 2603; 2617; 2707; 2955; 2967; 2976; 2988; 2998; 3009; 3055; 3194; 3257; 3759; 3804; 3870; 3896; 4021; 4024; 4172; 4304; 4611; 4755; 5251
SsiI	G!CGG	27	370; 403; 528; 651; 1028; 1034; 1928; 2545; 2572; 2660; 2770; 3351; 3415; 3516; 3519; 3799; 3854; 3952; 4090; 4237; 4377; 4620; 4865; 4986; 5005; 5132; 5160

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SspI	AAT!ATT	2	2193; 2746
SspDI	G!GCGCC	1	3284
SspD5I	GGTGANNNNNNNN!	5	376; 1389; 1413; 4356; 4472
SspD5I	!NNNNNNNNNTCACC	3	1058; 2401; 3462
SstI	GAGCT!C	2	620; 742
SstII	CCGC!GG	1	652
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	24	92; 118; 285; 663; 887; 899; 1211; 1266; 1274; 1316; 1374; 1682; 2484; 2606; 2961; 2982; 3295; 3698; 3837; 3908; 4178; 4310; 4540; 4978
Sth132I	!NNNNNNNNCCGGG	21	15; 407; 470; 643; 978; 1062; 2485; 2537; 2638; 3365; 3407; 3440; 3944; 4053; 4082; 4229; 4333; 4364; 4817; 4861; 5069
Sth302II	CC!GG	24	602; 658; 668; 987; 1044; 1071; 1134; 1194; 2504; 3191; 3268; 3290; 3318; 3449; 3539; 3606; 3787; 4062; 4070; 4162; 4636; 4826; 4852; 4999
StrI	C!TCGAG	2	613; 745
StsI	GGATGNNNNNNNNNN!	7	1037; 1658; 1775; 3153; 3610; 3635; 4089
StsI	!NNNNNNNNNNNNNNNCATCC	3	1068; 1434; 2957
StuI	AGG!CCT	1	3106
StyI	C!CWWGG	5	360; 3014; 3107; 3717; 4122
StyD4I	!CCNGG	24	88; 281; 655; 656; 985; 1069; 1085; 1210; 1322; 1397; 1451; 2819; 2874; 2891; 3287; 3447; 3670; 4060; 4249; 4352; 4824; 5042; 5055; 5176
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 645; 1581; 2376; 3665; 3781; 3889; 4212; 4703; 5173; 5244
TaiI	ACGT!	22	125; 137; 178; 261; 342; 447; 690; 755; 818; 1022; 1109; 1322; 1797; 1802; 2348; 2360; 2403; 2513; 3404; 3591; 4372; 4505
TaqI	T!CGA	19	614; 627; 640; 746; 818; 1091; 1385; 1412; 2434; 3125; 3398; 3554; 3578; 3614; 3776; 3967; 4012; 4267; 5105
TaqII	GACCGANNNNNNNNNN!	4	1507; 2305; 3322; 3990
TaqII	!NNNNNNNNNTCGGTC	1	4234
TaqII	CACCCANNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	3	172; 3189; 3781
TasI	!AATT	15	18; 629; 1510; 1618; 1678; 1897; 2035; 2099; 2177; 2203; 2214; 2861; 2933; 3025; 4443
TatI	W!GTACW	6	217; 297; 330; 381; 1013; 1469
TauI	GCSG!C	17	985; 1934; 2605; 2619; 3057; 3196; 3259; 3354; 3519; 3522; 3761; 3857; 3898; 4026; 4380; 5008; 5163
TfiI	G!AWTC	5	3770; 3904; 4014; 4051; 5229
TliI	C!TCGAG	2	613; 745
TruII	T!TAA	15	7; 1986; 2047; 2168; 2189; 2200; 2212; 2223; 2240; 2338; 2609; 4428; 4442; 4447; 4499
Tru9I	T!TAA	15	7; 1986; 2047; 2168; 2189; 2200; 2212; 2223; 2240; 2338; 2609; 4428; 4442; 4447; 4499
TscAI	CASTGNN!	7	1598; 1785; 2131; 3414; 4524; 4795; 4808
TseI	G!CWGC	21	827; 834; 885; 888; 1046; 1200; 1281; 1783; 2061; 2580; 3245; 3346; 3388; 3429; 3522; 3909; 4362; 4588; 4794; 4797; 4862
TsoI	TARCCANNNNNNNNNN!	2	2257; 2604
TsoI	!NNNNNNNNNTGGYTA	4	1684; 1760; 2062; 3814
Tsp45I	!GTSAC	8	709; 975; 1224; 1589; 1795; 2574; 3405; 3711
Tsp509I	!AATT	15	18; 629; 1510; 1618; 1678; 1897; 2035; 2099; 2177; 2203; 2214; 2861; 2933; 3025; 4443
TspDTI	ATGAANNNNNNNNNN!	8	1291; 1652; 1720; 1847; 1907; 2043; 3344; 4048
TspDTI	!NNNNNNNNNTTCAT	4	26; 3762; 4218; 4425
TspEI	!AATT	15	18; 629; 1510; 1618; 1678; 1897; 2035; 2099; 2177; 2203; 2214; 2861; 2933; 3025; 4443
TspGWI	ACGGANNNNNNNNNN!	2	1892; 4160
TspGWI	!NNNNNNNNNTCCGT	2	909; 1723
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	7	1598; 1785; 2131; 3414; 4524; 4795; 4808
TstI	CACNNNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNNCACNNNNNNNTCC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Tth111I	GACN!NNGTC	1	3403
Tth111II	CAARCANNNNNNNNNNN!	2	787; 4612
Tth111III	!NNNNNNNNNTGYTTG	3	3720; 4580; 4619
UnbI	!GGNCC	12	82; 275; 653; 876; 959; 1213; 2391; 3800; 4245; 4291; 4349; 4382
Van91I	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	1	2167
VneI	G!TGCAC	1	4889
VpaK11AI	!GGWCC	3	959; 3800; 4245
VpaK11BI	G!GWCC	3	960; 3801; 4246
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	7	629; 1510; 1678; 1897; 2099; 2203; 2214
XbaI	T!CTAGA	1	1939
XceI	RCATG!Y	4	2855; 2927; 3690; 5207
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	2	613; 745
XhoII	R!GATCY	11	585; 609; 660; 803; 3456; 3702; 4094; 4453; 4465; 4551; 4562
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	3107; 4122
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	1	1252
XspI	C!TAG	9	592; 1697; 1940; 2134; 2552; 3108; 4123; 4457; 4710
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2857; 2929; 5260