

## pFusionRed-myosin vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2018; 2223
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2306; 3262; 5051
AatI	AGG!CCT	4	1039; 1459; 1690; 3056
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1190
AccII	CG!CG	17	60; 1484; 1781; 2123; 2159; 2535; 2555; 2579; 2610; 3301; 3602; 4040; 4124; 4187; 4256; 4529; 5110
AccIII	T!CCGGA	1	1321
Acc16I	TGC!GCA	1	3337
Acc36I	ACCTGCNNNN!	3	1517; 3503; 3953
Acc36I	!NNNNNNNNGCAGGT	1	3122
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	9	465; 664; 724; 1578; 1785; 1846; 2388; 3234; 3269
AccB7I	CCANNNN!NTGG	1	1209
AccBSI	CCG!CTC	2	2659; 3848
AccBSI	GAG!CGG	2	2495; 3902
AceIII	CAGCTCNNNNNNN!	1	2191
AceIII	!NNNNNNNNNNGAGCTG	3	552; 610; 1711
AciI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1482; 1659; 1779; 2550; 2553; 2567; 2657; 2905; 2917; 2926; 2938; 2948; 2959; 3005; 3144; 3207; 3709; 3754; 3820; 3846; 3971; 3974; 4122; 4254; 4561; 4705; 5201
AciI	G!CGG	26	370; 403; 528; 758; 1070; 1112; 2495; 2522; 2610; 2720; 3301; 3365; 3466; 3469; 3749; 3804; 3902; 4040; 4187; 4327; 4570; 4815; 4936; 4955; 5082; 5110
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	1878; 1887; 3103; 3414; 3660; 4052; 4411; 4509; 4595
AclWI	!NNNNNGATCC	9	580; 1145; 1434; 1650; 1865; 3479; 4023; 4410; 4507
AcoI	Y!GGCCR	5	1268; 3141; 3315; 3706; 3733
AcsI	R!AATTY	3	2049; 2153; 2164
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	1120; 3381; 3813
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4611
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	10	122; 175; 258; 444; 1187; 1579; 1847; 3235; 3937; 4016
AdeI	CACNNN!GTG	2	1260; 2351
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1555; 1777; 3541
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	25	49; 721; 1000; 1066; 1209; 1388; 1443; 1532; 1719; 1752; 2247; 2573; 2965; 3216; 3760; 4041; 4073; 4205; 4240; 4290; 4322; 4675; 4954; 5120; 5138
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	3	1517; 2121; 5153
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	8	687; 1464; 1812; 2646; 2690; 2700; 3113; 4689
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	18	88; 281; 785; 929; 944; 1073; 1442; 1556; 1581; 2769; 2824; 2841; 3620; 4199; 4302; 4992; 5005; 5126
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	1	613
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	2	2809; 2881
AlfI	!NNNNNNNNNNGCANNNNNTGC	2	2775; 2847
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	2317
AloI	!NNNNNNNGGANNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	1	2285
AluI	AG!CT	20	566; 624; 651; 797; 1104; 1339; 1345; 1629; 1725; 2014; 2181; 2438; 2733; 3021; 3341; 3799; 4596; 4853; 4899; 4989
AluBI	AG!CT	20	566; 624; 651; 797; 1104; 1339; 1345; 1629; 1725; 2014; 2181; 2438; 2733; 3021; 3341; 3799; 4596; 4853; 4899; 4989
AlwI	GGATCNNNN!	9	1878; 1887; 3103; 3414; 3660; 4052; 4411; 4509; 4595
AlwI	!NNNNNGATCC	9	580; 1145; 1434; 1650; 1865; 3479; 4023; 4410; 4507
Alw21I	GWGCW!C	5	694; 1341; 3348; 3538; 4843
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	7	1042; 1132; 1231; 2659; 3077; 4096; 4224
Alw44I	G!TGCAC	2	690; 4839
AlwNI	CAGNNN!CTG	2	4336; 4744
Ama87I	C!YCGRG	2	1334; 1645
Aor13HI	T!CCGGA	1	1321
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	1589
ApaBI	GCANNNNN!TGC	3	2803; 2875; 4337
ApaLI	G!TGCAC	2	690; 4839
ApeKI	G!CWGC	17	809; 953; 1251; 1725; 2011; 2530; 3195; 3296; 3338; 3379; 3472; 3859; 4312; 4538; 4744; 4747; 4812
ApoI	R!AATTY	3	2049; 2153; 2164
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3750
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3544; 4197; 5035
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3634
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	785
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	4	1338; 1709; 1784; 3063
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	1	1558
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	3805
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	26	586; 1125; 1151; 1331; 1440; 1474; 1656; 1871; 1880; 1893; 3073; 3077; 3096; 3407; 3485; 3566; 3575; 3653; 4029; 4045; 4404; 4416; 4494; 4502; 4513; 4588
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3353
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3057; 4072
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	25	597; 1084; 1291; 1581; 1849; 2501; 2509; 2535; 2557; 2566; 2579; 2610; 3229; 3237; 3301; 3338; 3604; 3864; 4040; 4126; 4529; 4638; 4812; 4912; 4979
AspS9I	G!GNCC	17	83; 276; 760; 1003; 1095; 1116; 1200; 1391; 1506; 1586; 1710; 2342; 3751; 4196; 4242; 4300; 4333
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	3917
AsuC2I	CC!SGG	6	836; 1184; 3239; 3399; 4012; 4776
AsuHPI	GGTGANNNNNNNN!	6	376; 627; 996; 1306; 4306; 4422
AsuHPI	!NNNNNNNTCACC	5	885; 1590; 1722; 2352; 3413
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	1334; 1645
AvaII	G!GWCC	5	1200; 1506; 1710; 3751; 4196
AviII	TGC!GCA	1	3337

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AvrII	C!CTAGG	2	3057; 4072
AxyI	CC!TNAGG	5	869; 1692; 1717; 2715; 4347
BaeI	ACNNNGTAYC>NNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI!C	7	667; 694; 727; 1589; 3181; 3274; 4843
BalI	TGG!CCA	2	1270; 3317
BamHI	G!GATCC	1	1870
BanI	G!GYRCC	9	465; 664; 724; 1578; 1785; 1846; 2388; 3234; 3269
BanII	GRGCY!C	5	1341; 1589; 2426; 3600; 4310
BanIII	AT!CGAT	1	3075
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	1209
BauI	C!ACGAG	4	1255; 1705; 3953; 4980
BauI	C!TCGTG	2	1105; 3827
BbeI	GGCGC!C	3	1582; 1850; 3238
Bbr7I	GAAGACNNNNNN!	1	916
Bbr7I	!NNNNNNNNNNNGTCTTC	1	1402
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	911
BbsI	!NNNNNGTCTTC	1	1407
BbuI	GCATG!C	3	2805; 2877; 3640
BbvI	GCAGC>NNNNNNNN!	8	821; 1263; 2023; 3308; 3350; 3871; 4324; 4824
BbvI	!NNNNNNNNNNNGCTGC	8	940; 1712; 2517; 3182; 3366; 3459; 4525; 4731
Bbv12I	GWGCW!C	5	694; 1341; 3348; 3538; 4843
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATC>NNNN!	5	1597; 2365; 2929; 3455; 3957
BccI	!NNNNNGATGG	5	1291; 1480; 2333; 3113; 3541
BceAI	ACGGC>NNNNNNNNNN!	8	822; 966; 1017; 1083; 1650; 1860; 3661; 4148
BceAI	!NNNNNNNNNNNGCCGT	3	2376; 3194; 4653
BceFI	ACGGC>NNNNNNNNNN!	8	822; 966; 1017; 1083; 1650; 1860; 3661; 4148
BceFI	!NNNNNNNNNNNGCCGT	3	2377; 3195; 4654
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	2664; 3454; 4955
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	2	1473; 1892
BcnI	CC!SGG	6	836; 1184; 3239; 3399; 4012; 4776
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNN!	2	1915; 5088
BdaI	!NNNNNNNNNTGANNNNNNTCA	2	1881; 5054
BfaI	C!TAG	8	592; 1883; 2084; 2502; 3058; 4073; 4407; 4660
BfiI	ACTGGGNNNNN!	1	3184
BfiI	!NNNCCCAGT	2	289; 2936
BfmI	C!TRYAG	3	2570; 4697; 4888
BfoI	RGCGC!Y	8	598; 1292; 1582; 1850; 2502; 2510; 3238; 4913
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNN!	3	2664; 3454; 4955
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGC>NNNN!	3	1517; 3503; 3953
BfuAI	!NNNNNNNGCAGGT	1	3122
BfuCI	!GATC	26	585; 1124; 1150; 1330; 1439; 1473; 1655; 1870; 1879; 1892; 3072; 3076; 3095; 3406; 3484; 3565; 3574; 3652; 4028; 4044; 4403; 4415; 4493; 4501; 4512; 4587
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1079; 3010
BglII	A!GATCT	1	1330

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BisI	GC!NGC	34	759; 810; 954; 1071; 1252; 1726; 2012; 2531; 2553; 2567; 3005; 3144; 3196; 3207; 3297; 3302; 3339; 3380; 3467; 3470; 3473; 3709; 3805; 3846; 3860; 3974; 4313; 4328; 4539; 4745; 4748; 4813; 4956; 5111
BlnI	C!CTAGG	2	3057; 4072
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	34	760; 811; 955; 1072; 1253; 1727; 2013; 2532; 2554; 2568; 3006; 3145; 3197; 3208; 3298; 3303; 3340; 3381; 3468; 3471; 3474; 3710; 3806; 3847; 3861; 3975; 4314; 4329; 4540; 4746; 4749; 4814; 4957; 5112
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	5	1200; 1506; 1710; 3751; 4196
Bme1390I	CC!NGG	24	90; 283; 787; 836; 931; 946; 1075; 1184; 1444; 1558; 1583; 2771; 2826; 2843; 3239; 3399; 3622; 4012; 4201; 4304; 4776; 4994; 5007; 5128
BmeRI	GACNN!NNGTC	0	
BmeT110I	C!YCGRG	2	1334; 1645
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	17	84; 277; 761; 1004; 1096; 1117; 1201; 1392; 1507; 1587; 1711; 2343; 3752; 4197; 4243; 4301; 4334
BmiI	GGN!NCC	24	467; 666; 726; 1117; 1320; 1393; 1580; 1587; 1787; 1848; 1872; 2390; 2411; 2423; 2614; 2775; 2847; 3236; 3271; 4119; 4198; 4243; 5086; 5125
BmrI	ACTGGGNNNNN!	1	3184
BmrI	!NNNNCCCAGT	2	289; 2936
BmrFI	CC!NGG	24	90; 283; 787; 836; 931; 946; 1075; 1184; 1444; 1558; 1583; 2771; 2826; 2843; 3239; 3399; 3622; 4012; 4201; 4304; 4776; 4994; 5007; 5128
BmsI	GCATCNNNNN!	8	848; 1841; 2051; 2814; 2886; 3534; 3598; 3873
BmsI	!NNNNNNNNNGATGC	7	357; 1001; 1169; 3193; 3448; 3664; 5056
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	3184
BmuI	!NNNNCCCAGT	2	289; 2936
BoxI	GACNN!NNGTC	1	1243
BpiI	GAAGACNN!	1	911
BpiI	!NNNNNGTCTTC	1	1407
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	3	1707; 3024; 3923
BpI	!NNNNNNNGAGNNNNNNCTC	3	1675; 2992; 3891
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	1579; 4075
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	928; 4018
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	3917
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	911
BpuAI	!NNNNNGTCTTC	1	1407
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	1156; 4529; 5068
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	4	1159; 1325; 3611; 4770
BpuMI	CC!SGG	6	836; 1184; 3239; 3399; 4012; 4776
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	1132; 1231; 4224
Bsa29I	AT!CGAT	1	3075
BsaAI	YAC!GTR	4	340; 1818; 2351; 3539
BsaBI	GATNN!NNATC	2	1897; 3094
BsaHI	GR!CGYC	10	122; 175; 258; 444; 1187; 1579; 1847; 3235; 3937; 4016
BsaJI	C!CNNGG	23	360; 611; 698; 929; 1367; 1582; 1646; 1736; 1850; 2769; 2841; 2964; 2999; 3008; 3057; 3398; 3667; 4072; 4199; 4200; 4302; 4303; 4993
BsaMI	GAATGCN!	1	1986
BsaMI	G!CATTC	1	2079
BsaWI	W!CCGGW	7	600; 1321; 1876; 3266; 4110; 4800; 4947
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2315
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	2285

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	2236; 4143
Bsc4I	CCNNNNN!NNGG	25	49; 721; 1000; 1066; 1209; 1388; 1443; 1532; 1719; 1752; 2247; 2573; 2965; 3216; 3760; 4041; 4073; 4205; 4240; 4290; 4322; 4675; 4954; 5120; 5138
BscAI	GCATCNNNN!	8	847; 1840; 2050; 2813; 2885; 3533; 3597; 3872
BscAI	!NNNNNNGATGC	7	360; 1004; 1172; 3196; 3451; 3667; 5059
BseI	ACTGGN!	5	1214; 1287; 3179; 3380; 4626
BseI	C!CAGT	6	295; 1431; 2264; 2942; 4738; 4751
Bse8I	GATNN!NNATC	2	1897; 3094
Bse2II	CC!TNAGG	5	869; 1692; 1717; 2715; 4347
Bse118I	R!CCGGY	5	600; 2452; 3554; 3735; 4018
BseAI	T!CCGGA	1	1321
BseBI	CC!WGG	18	90; 283; 787; 931; 946; 1075; 1444; 1558; 1583; 2771; 2826; 2843; 3622; 4201; 4304; 4994; 5007; 5128
BseCI	AT!CGAT	1	3075
BseDI	C!CNNGG	23	360; 611; 698; 929; 1367; 1582; 1646; 1736; 1850; 2769; 2841; 2964; 2999; 3008; 3057; 3398; 3667; 4072; 4199; 4200; 4302; 4303; 4993
Bse3DI	GCAATGNN!	2	1668; 3468
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	6	1656; 1761; 3095; 3552; 3577; 4031
BseGI	!CATCC	6	694; 782; 839; 1700; 1832; 2921
BseJI	GATNN!NNATC	2	1897; 3094
BseLI	CCNNNNN!NNGG	25	49; 721; 1000; 1066; 1209; 1388; 1443; 1532; 1719; 1752; 2247; 2573; 2965; 3216; 3760; 4041; 4073; 4205; 4240; 4290; 4322; 4675; 4954; 5120; 5138
BseMI	GCAATGNN!	2	1668; 3468
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	3	1341; 1706; 4361
BseMII	!NNNNNNNNNCTGAG	7	860; 1708; 2706; 3008; 3889; 4461; 4870
BseNI	ACTGGN!	5	1214; 1287; 3179; 3380; 4626
BseNI	C!CAGT	6	295; 1431; 2264; 2942; 4738; 4751
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	4	1328; 1699; 1774; 3053
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	7	667; 694; 727; 1589; 3181; 3274; 4843
BseXI	GCAGCNNNNNNNN!	8	821; 1263; 2023; 3308; 3350; 3871; 4324; 4824
BseXI	!NNNNNNNNNNNGCTGC	8	940; 1712; 2517; 3182; 3366; 3459; 4525; 4731
BseX3I	C!GGCCG	1	3141
BseYI	C!CCAGC	4	993; 2778; 2850; 4849
BseYI	G!CTGGG	2	1031; 3739
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	1	1495
Bsh1236I	CG!CG	17	60; 1484; 1781; 2123; 2159; 2535; 2555; 2579; 2610; 3301; 3602; 4040; 4124; 4187; 4256; 4529; 5110
Bsh1285I	CGRY!CG	4	605; 1746; 3144; 4819
BshFI	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1372; 1392; 1459; 1525; 1587; 1690; 2201; 2343; 2998; 3004; 3013; 3056; 3143; 3317; 3708; 3735; 4244; 4301; 4334; 4679; 5113; 5131; 5142
BshNI	G!GYRCC	9	465; 664; 724; 1578; 1785; 1846; 2388; 3234; 3269
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	3075
BsiEI	CGRY!CG	4	605; 1746; 3144; 4819
BsiHKAI	GWGCW!C	5	694; 1341; 3348; 3538; 4843
BsiHKCI	C!YCGRG	2	1334; 1645
BsiSI	C!CGG	21	601; 835; 1184; 1322; 1877; 2453; 3140; 3217; 3239; 3267; 3398; 3488; 3555; 3736; 4011; 4019; 4111; 4585; 4775; 4801; 4948
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	25	49; 721; 1000; 1066; 1209; 1388; 1443; 1532; 1719; 1752; 2247; 2573; 2965; 3216; 3760; 4041; 4073; 4205; 4240; 4290; 4322; 4675; 4954; 5120; 5138
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3386; 3918; 4027
BsIFI	!NNNNNNNNNNNNNGTCCC	5	1419; 2751; 2823; 2887; 4182
BsmI	GAATGCN!	1	1986

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BsmI	G!CATTC	1	2079
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	7	1042; 1132; 1231; 2659; 3077; 4096; 4224
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	1042
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3386; 3918; 4027
BsmFI	!NNNNNNNNNNNNNGTCCC	5	1419; 2751; 2823; 2887; 4182
BsnI	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1372; 1392; 1459; 1525; 1587; 1690; 2201; 2343; 2998; 3004; 3013; 3056; 3143; 3317; 3708; 3735; 4244; 4301; 4334; 4679; 5113; 5131; 5142
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	1132; 1231; 4224
BsoBI	C!YCGRG	2	1334; 1645
Bsp13I	T!CCGGA	1	1321
Bsp19I	C!CATGG	5	360; 611; 1736; 2964; 3667
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4038
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	4459; 4637
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4491; 4669
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4006
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	3917
Bsp120I	G!GGCCC	1	1585
Bsp143I	!GATC	26	585; 1124; 1150; 1330; 1439; 1473; 1655; 1870; 1879; 1892; 3072; 3076; 3095; 3406; 3484; 3565; 3574; 3652; 4028; 4044; 4403; 4415; 4493; 4501; 4512; 4587
Bsp1286I	GDGCH!C	13	667; 694; 727; 1341; 1589; 2426; 3181; 3274; 3348; 3538; 3600; 4310; 4843
Bsp1407I	T!GTACA	1	653
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1482; 1659; 1779; 2550; 2553; 2567; 2657; 2905; 2917; 2926; 2938; 2948; 2959; 3005; 3144; 3207; 3709; 3754; 3820; 3846; 3971; 3974; 4122; 4254; 4561; 4705; 5201
BspACI	G!CGG	26	370; 403; 528; 758; 1070; 1112; 2495; 2522; 2610; 2720; 3301; 3365; 3466; 3469; 3749; 3804; 3902; 4040; 4187; 4327; 4570; 4815; 4936; 4955; 5082; 5110
BspCNI	CTCAGNNNNNNNN!	3	1340; 1705; 4360
BspCNI	!NNNNNNCTGAG	7	861; 1709; 2707; 3009; 3890; 4462; 4871
BspDI	AT!CGAT	1	3075
BspD6I	GACTCNNNN!	5	418; 1333; 2308; 3914; 4791
BspD6I	!NNNNNGAGTC	3	883; 2271; 2703
BspEI	T!CCGGA	1	1321
BspFNI	CG!CG	17	60; 1484; 1781; 2123; 2159; 2535; 2555; 2579; 2610; 3301; 3602; 4040; 4124; 4187; 4256; 4529; 5110
BspHI	T!CATGA	2	2661; 4433
BspLI	GGN!NCC	24	467; 666; 726; 1117; 1320; 1393; 1580; 1587; 1787; 1848; 1872; 2390; 2411; 2423; 2614; 2775; 2847; 3236; 3271; 4119; 4198; 4243; 5086; 5125
BspMI	ACCTGCNNNN!	3	1517; 3503; 3953
BspMI	!NNNNNNNGCAGGT	1	3122
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	1878; 1887; 3103; 3414; 3660; 4052; 4411; 4509; 4595
BspPI	!NNNNNGATCC	9	580; 1145; 1434; 1650; 1865; 3479; 4023; 4410; 4507
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3579; 3789
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	3917
BspT107I	G!GYRCC	9	465; 664; 724; 1578; 1785; 1846; 2388; 3234; 3269
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	1132; 1231; 4224
BsrI	ACTGGN!	5	1214; 1287; 3179; 3380; 4626
BsrI	C!CAGT	6	295; 1431; 2264; 2942; 4738; 4751
BsrBI	CCG!CTC	2	2659; 3848
BsrBI	GAG!CGG	2	2495; 3902
BsrDI	GCAATGNN!	2	1668; 3468

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	5	600; 2452; 3554; 3735; 4018
BsrGI	T!GTACA	1	653
BsrSI	ACTGGN!	5	1214; 1287; 3179; 3380; 4626
BsrSI	C!CAGT	6	295; 1431; 2264; 2942; 4738; 4751
BssAI	R!CCGGY	5	600; 2452; 3554; 3735; 4018
BssECI	C!CNNGG	23	360; 611; 698; 929; 1367; 1582; 1646; 1736; 1850; 2769; 2841; 2964; 2999; 3008; 3057; 3398; 3667; 4072; 4199; 4200; 4302; 4303; 4993
BssHII	G!CGCGC	0	
BssKI	!CCNGG	24	88; 281; 785; 834; 929; 944; 1073; 1182; 1442; 1556; 1581; 2769; 2824; 2841; 3237; 3397; 3620; 4010; 4199; 4302; 4774; 4992; 5005; 5126
BssMI	!GATC	26	585; 1124; 1150; 1330; 1439; 1473; 1655; 1870; 1879; 1892; 3072; 3076; 3095; 3406; 3484; 3565; 3574; 3652; 4028; 4044; 4403; 4415; 4493; 4501; 4512; 4587
BssNI	GR!CGYC	10	122; 175; 258; 444; 1187; 1579; 1847; 3235; 3937; 4016
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	4	1255; 1705; 3953; 4980
BssSI	C!TCGTG	2	1105; 3827
BssTII	C!CWWGG	9	360; 611; 1367; 1736; 1850; 2964; 3057; 3667; 4072
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	1381; 2702; 3579; 3789
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	10	122; 175; 258; 444; 1187; 1579; 1847; 3235; 3937; 4016
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	2802; 2874; 4336
BstAUI	T!GTACA	1	653
BstBI	TT!CGAA	1	3917
Bst2BI	C!ACGAG	4	1255; 1705; 3953; 4980
Bst2BI	C!TCGTG	2	1105; 3827
BstBAI	YAC!GTR	4	340; 1818; 2351; 3539
Bst4CI	ACN!GT	14	76; 198; 269; 543; 581; 669; 2326; 3615; 3731; 3839; 4162; 4653; 5123; 5194
BstC8I	GCN!NGC	32	86; 279; 593; 622; 712; 916; 1674; 2454; 2497; 2511; 2784; 2803; 2856; 2875; 3129; 3315; 3534; 3600; 3606; 3634; 3638; 3679; 3683; 3737; 4020; 4207; 4254; 4310; 4332; 4543; 5103; 5140
BstDEI	C!TNAG	11	869; 1327; 1692; 1717; 1866; 2715; 3017; 3898; 4347; 4470; 4879
BstDSI	C!CRYGG	5	360; 611; 1736; 2964; 3667
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	6	1656; 1761; 3095; 3552; 3577; 4031
BstF5I	!CATCC	6	694; 782; 839; 1700; 1832; 2921
BstFNI	CG!CG	17	60; 1484; 1781; 2123; 2159; 2535; 2555; 2579; 2610; 3301; 3602; 4040; 4124; 4187; 4256; 4529; 5110
BstH2I	RGCGC!Y	8	598; 1292; 1582; 1850; 2502; 2510; 3238; 4913
BstHHI	GCG!C	25	597; 1084; 1291; 1581; 1849; 2501; 2509; 2535; 2557; 2566; 2579; 2610; 3229; 3237; 3301; 3338; 3604; 3864; 4040; 4126; 4529; 4638; 4812; 4912; 4979
BstKTI	GAT!C	26	588; 1127; 1153; 1333; 1442; 1476; 1658; 1873; 1882; 1895; 3075; 3079; 3098; 3409; 3487; 3568; 3577; 3655; 4031; 4047; 4406; 4418; 4496; 4504; 4515; 4590
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	7	1042; 1132; 1231; 2659; 3077; 4096; 4224
BstMBI	!GATC	26	585; 1124; 1150; 1330; 1439; 1473; 1655; 1870; 1879; 1892; 3072; 3076; 3095; 3406; 3484; 3565; 3574; 3652; 4028; 4044; 4403; 4415; 4493; 4501; 4512; 4587
BstMCI	CGRY!CG	4	605; 1746; 3144; 4819
BstMWI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 648; 1079; 2462; 2492; 2519; 2561; 2802; 2874; 2925; 3004; 3226; 3310; 3333; 3472; 3595; 3678; 3945; 4132; 4336; 4535; 5107
BstNI	CC!WGG	18	90; 283; 787; 931; 946; 1075; 1444; 1558; 1583; 2771; 2826; 2843; 3622; 4201; 4304; 4994; 5007; 5128
BstNSI	RCATG!Y	7	642; 1088; 1521; 2805; 2877; 3640; 5157

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstOI	CC!WGG	18	90; 283; 787; 931; 946; 1075; 1444; 1558; 1583; 2771; 2826; 2843; 3622; 4201; 4304; 4994; 5007; 5128
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1243
BstSCI	!CCNGG	24	88; 281; 785; 834; 929; 944; 1073; 1182; 1442; 1556; 1581; 2769; 2824; 2841; 3237; 3397; 3620; 4010; 4199; 4302; 4774; 4992; 5005; 5126
BstSFI	C!TRYAG	3	2570; 4697; 4888
BstSLI	GKGCM!C	7	667; 694; 727; 1589; 3181; 3274; 4843
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	17	60; 1484; 1781; 2123; 2159; 2535; 2555; 2579; 2610; 3301; 3602; 4040; 4124; 4187; 4256; 4529; 5110
Bst2UI	CC!WGG	18	90; 283; 787; 931; 946; 1075; 1444; 1558; 1583; 2771; 2826; 2843; 3622; 4201; 4304; 4994; 5007; 5128
BstV1I	GCAGCNNNNNNNN!	8	821; 1263; 2023; 3308; 3350; 3871; 4324; 4824
BstV1I	!NNNNNNNNNNNGCTGC	8	940; 1712; 2517; 3182; 3366; 3459; 4525; 4731
BstV2I	GAAGACNN!	1	911
BstV2I	!NNNNNNGTCTTC	1	1407
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 1150; 1330; 1439; 1870; 1879; 3406; 3652; 4044; 4403; 4415; 4501; 4512
BstYI	R!GATCY	13	585; 1150; 1330; 1439; 1870; 1879; 3406; 3652; 4044; 4403; 4415; 4501; 4512
BstZI	C!GGCCG	1	3141
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2664; 3454; 4955
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3075
Bsu36I	CC!TNAGG	5	869; 1692; 1717; 2715; 4347
BsuRI	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1372; 1392; 1459; 1525; 1587; 1690; 2201; 2343; 2998; 3004; 3013; 3056; 3143; 3317; 3708; 3735; 4244; 4301; 4334; 4679; 5113; 5131; 5142
BsuTUI	AT!CGAT	1	3075
BtgI	C!CRYGG	5	360; 611; 1736; 2964; 3667
BtgZI	GCGATGNNNNNNNNNN!	3	1499; 2352; 3687
BtgZI	!NNNNNNNNNNNNNNNCATCGC	3	334; 3506; 3850
BthCI	GCNG!C	34	761; 812; 956; 1073; 1254; 1728; 2014; 2533; 2555; 2569; 3007; 3146; 3198; 3209; 3299; 3304; 3341; 3382; 3469; 3472; 3475; 3711; 3807; 3848; 3862; 3976; 4315; 4330; 4541; 4747; 4750; 4815; 4958; 5113
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2074
BtsCI	GGATGNN!	6	1656; 1761; 3095; 3552; 3577; 4031
BtsCI	!CATCC	6	694; 782; 839; 1700; 1832; 2921
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	1517; 3503; 3953
BveI	!NNNNNNNNGCAGGT	1	3122
Cac8I	GCN!NGC	32	86; 279; 593; 622; 712; 916; 1674; 2454; 2497; 2511; 2784; 2803; 2856; 2875; 3129; 3315; 3534; 3600; 3606; 3634; 3638; 3679; 3683; 3737; 4020; 4207; 4254; 4310; 4332; 4543; 5103; 5140
CaiI	CAGNNN!CTG	2	4336; 4744
CciI	T!CATGA	2	2661; 4433
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	352; 3524; 3529; 3727; 3868
CdiI	C!GATG	6	1052; 1233; 1349; 1485; 2338; 3673
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	5107
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2896; 2938
CelII	GC!TNAGC	0	
CfoI	GCG!C	25	597; 1084; 1291; 1581; 1849; 2501; 2509; 2535; 2557; 2566; 2579; 2610; 3229; 3237; 3301; 3338; 3604; 3864; 4040; 4126; 4529; 4638; 4812; 4912; 4979
CfrI	Y!GGCCR	5	1268; 3141; 3315; 3706; 3733
Cfr9I	C!CCGGG	0	



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cfr10I	R!CCGGY	5	600; 2452; 3554; 3735; 4018
Cfr13I	G!GNCC	17	83; 276; 760; 1003; 1095; 1116; 1200; 1391; 1506; 1586; 1710; 2342; 3751; 4196; 4242; 4300; 4333
Cfr42I	CCGC!GG	0	
ChaI	GATC!	26	589; 1128; 1154; 1334; 1443; 1477; 1659; 1874; 1883; 1896; 3076; 3080; 3099; 3410; 3488; 3569; 3578; 3656; 4032; 4048; 4407; 4419; 4497; 4505; 4516; 4591
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNN!	5	706; 3052; 4492; 4592; 4670
CjeI	!NNNNNNNNNACNNNNNNNTGG	8	64; 257; 1602; 2719; 2814; 4006; 4556; 5111
CjeI	ACNNNNNNTGGNNNNNNNNNNNNNN!	8	98; 291; 1636; 2753; 2848; 4040; 4590; 5145
CjeI	!NNNNNNNNCCANNNNNNGT	5	672; 3018; 4458; 4558; 4636
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	3	1607; 4492; 4670
CjePI	!NNNNNNNNGANNNNNNNTGG	4	257; 1470; 4006; 4605
CjePI	GANNNNNNTGGNNNNNNNNNNNNNN!	4	290; 1503; 4039; 4638
CjePI	!NNNNNNNCCANNNNNNNTC	3	1574; 4459; 4637
Clal	AT!CGAT	1	3075
CpoI	CG!GWCCG	1	3751
CseI	GACGCNNNNN!	3	526; 3945; 4024
CseI	!NNNNNNNNNGCGTC	4	1176; 2568; 4463; 5041
CsiI	A!CCWGGT	1	2824
CspI	CG!GWCCG	1	3751
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1554; 1776; 3540
Csp45I	TT!CGAA	1	3917
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	6	656; 1247; 1478; 1526; 2515; 4124
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	30	301; 361; 612; 639; 645; 657; 735; 801; 881; 1085; 1092; 1422; 1467; 1518; 1566; 1602; 1737; 2662; 2802; 2874; 2965; 3106; 3451; 3637; 3668; 3694; 4050; 4434; 5154; 5205
CviJI	RG!CY	105	42; 84; 93; 277; 566; 624; 651; 714; 761; 790; 797; 875; 941; 953; 997; 1004; 1031; 1039; 1073; 1096; 1104; 1118; 1228; 1264; 1270; 1339; 1345; 1366; 1372; 1392; 1402; 1459; 1490; 1525; 1587; 1629; 1690; 1697; 1725; 1904; 2014; 2181; 2201; 2343; 2424; 2438; 2452; 2733; 2774; 2846; 2969; 2998; 3004; 3013; 3021; 3044; 3056; 3062; 3143; 3160; 3168; 3195; 3220; 3304; 3313; 3317; 3341; 3379; 3455; 3472; 3491; 3554; 3598; 3608; 3625; 3708; 3735; 3739; 3776; 3799; 3815; 3995; 4022; 4083; 4205; 4244; 4301; 4308; 4315; 4334; 4345; 4596; 4625; 4668; 4679; 4744; 4823; 4848; 4853; 4899; 4989; 5087; 5113; 5131; 5142
CviKI-1	RG!CY	105	42; 84; 93; 277; 566; 624; 651; 714; 761; 790; 797; 875; 941; 953; 997; 1004; 1031; 1039; 1073; 1096; 1104; 1118; 1228; 1264; 1270; 1339; 1345; 1366; 1372; 1392; 1402; 1459; 1490; 1525; 1587; 1629; 1690; 1697; 1725; 1904; 2014; 2181; 2201; 2343; 2424; 2438; 2452; 2733; 2774; 2846; 2969; 2998; 3004; 3013; 3021; 3044; 3056; 3062; 3143; 3160; 3168; 3195; 3220; 3304; 3313; 3317; 3341; 3379; 3455; 3472; 3491; 3554; 3598; 3608; 3625; 3708; 3735; 3739; 3776; 3799; 3815; 3995; 4022; 4083; 4205; 4244; 4301; 4308; 4315; 4334; 4345; 4596; 4625; 4668; 4679; 4744; 4823; 4848; 4853; 4899; 4989; 5087; 5113; 5131; 5142
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1554; 1776; 3540
DdeI	C!TNAG	11	869; 1327; 1692; 1717; 1866; 2715; 3017; 3898; 4347; 4470; 4879
DinI	GGC!GCC	3	1580; 1848; 3236
DpnI	GA!TC	26	587; 1126; 1152; 1332; 1441; 1475; 1657; 1872; 1881; 1894; 3074; 3078; 3097; 3408; 3486; 3567; 3576; 3654; 4030; 4046; 4405; 4417; 4495; 4503; 4514; 4589
DpnII	!GATC	26	585; 1124; 1150; 1330; 1439; 1473; 1655; 1870; 1879; 1892; 3072; 3076; 3095; 3406; 3484; 3565; 3574; 3652; 4028; 4044; 4403; 4415; 4493; 4501; 4512; 4587
DraI	TTT!AAA	3	1937; 4379; 4398
DraII	RG!GNCCY	4	1391; 1506; 1585; 4333

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DraIII	CACNNN!GTG	2	1260; 2351
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	4	266; 851; 1877; 4715
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	3	2306; 3262; 5051
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2306; 3262; 5051
EaeI	Y!GGCCR	5	1268; 3141; 3315; 3706; 3733
EagI	C!GGCCG	1	3141
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	1381; 2702; 3579; 3789
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	4	1381; 2702; 3579; 3789
EciI	GGCGGANNNNNNNNNNNN!	4	2735; 3764; 4951; 5097
EciI	!NNNNNNNNNTCCGCC	4	496; 2906; 2927; 2948
Ecl136II	GAG!CTC	1	1339
EclXI	C!GGCCG	1	3141
Eco24I	GRGCY!C	5	1341; 1589; 2426; 3600; 4310
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	3	1132; 1231; 4224
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	5	1200; 1506; 1710; 3751; 4196
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	3141
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	1120; 3381; 3813
Eco57I	!NNNNNNNNNNNNNNNCTTCAG	1	4611
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	5	869; 1692; 1717; 2715; 4347
Eco88I	C!YCGRG	2	1334; 1645
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	9	360; 611; 1367; 1736; 1850; 2964; 3057; 3667; 4072
Eco147I	AGG!CCT	4	1039; 1459; 1690; 3056
EcoHI	!CCSGG	6	834; 1182; 3237; 3397; 4010; 4774
EcoICRI	GAG!CTC	1	1339
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	5	1120; 1579; 3381; 3813; 4075
Eco57MI	!NNNNNNNNNNNNNNNCTYCAG	3	928; 4018; 4611
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	4	1391; 1506; 1585; 4333
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	18	88; 281; 785; 929; 944; 1073; 1442; 1556; 1581; 2769; 2824; 2841; 3620; 4199; 4302; 4992; 5005; 5126
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	9	360; 611; 1367; 1736; 1850; 2964; 3057; 3667; 4072
EcoT22I	ATGCA!T	3	2807; 2879; 5210
EcoT38I	GRGCY!C	5	1341; 1589; 2426; 3600; 4310
Eco53kI	GAG!CTC	1	1339
EgeI	GGC!GCC	3	1580; 1848; 3236
EheI	GGC!GCC	3	1580; 1848; 3236
ErhI	C!CWWGG	9	360; 611; 1367; 1736; 1850; 2964; 3057; 3667; 4072
EsaBC3I	TC!GA	17	753; 780; 1248; 1336; 1349; 1355; 2385; 3076; 3349; 3505; 3529; 3565; 3727; 3918; 3963; 4218; 5056
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNGAGACG	1	1042
FaeI	CATG!	30	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1425; 1470; 1521; 1569; 1605; 1740; 2665; 2805; 2877; 2968; 3109; 3454; 3640; 3671; 3697; 4053; 4437; 5157; 5208

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FaiI	YA!TR	68	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 640; 646; 658; 736; 802; 882; 900; 1086; 1093; 1146; 1423; 1468; 1519; 1567; 1603; 1738; 1897; 1907; 1973; 2018; 2223; 2651; 2663; 2794; 2803; 2866; 2875; 2899; 2966; 2990; 3107; 3171; 3452; 3477; 3638; 3669; 3695; 3767; 3983; 4051; 4129; 4181; 4342; 4359; 4361; 4363; 4435; 4713; 4902; 5018; 5091; 5155; 5206
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	4	879; 1476; 1824; 3575
FalI	!NNNNNNNNAAGNNNNNNCTT	4	847; 1444; 1792; 3543
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3386; 3918; 4027
FaqI	!NNNNNNNNNNNNNGTCCC	5	1419; 2751; 2823; 2887; 4182
FatI	!CATG	30	300; 360; 611; 638; 644; 656; 734; 800; 880; 1084; 1091; 1421; 1466; 1517; 1565; 1601; 1736; 2661; 2801; 2873; 2964; 3105; 3450; 3636; 3667; 3693; 4049; 4433; 5153; 5204
FauI	CCCGCNNNN!	10	93; 119; 286; 1068; 1170; 2557; 2912; 2933; 4129; 4261
FauI	!NNNNNNNGCGGG	6	1105; 2488; 3358; 3895; 4033; 4180
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	2	1473; 1892
FblI	GT!MKAC	1	1190
FmuI	GGNC!C	17	86; 279; 763; 1006; 1098; 1119; 1203; 1394; 1509; 1589; 1713; 2345; 3754; 4199; 4245; 4303; 4336
Fnu4HI	GC!NGC	34	759; 810; 954; 1071; 1252; 1726; 2012; 2531; 2553; 2567; 3005; 3144; 3196; 3207; 3297; 3302; 3339; 3380; 3467; 3470; 3473; 3709; 3805; 3846; 3860; 3974; 4313; 4328; 4539; 4745; 4748; 4813; 4956; 5111
FokI	GGATGNNNNNNNNN!	6	1663; 1768; 3102; 3559; 3584; 4038
FokI	!NNNNNNNNNNNNNCATCC	6	681; 769; 826; 1687; 1819; 2908
FriOI	GRGCY!C	5	1341; 1589; 2426; 3600; 4310
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3337
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1883; 2084; 2502; 3058; 4073; 4407; 4660
FspEI	CCNNNNNNNNNNNN!	177	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 656; 681; 711; 728; 742; 775; 789; 807; 831; 845; 876; 909; 936; 951; 970; 1006; 1053; 1072; 1087; 1110; 1132; 1147; 1167; 1186; 1216; 1242; 1284; 1335; 1380; 1395; 1422; 1444; 1473; 1495; 1522; 1539; 1555; 1570; 1595; 1614; 1657; 1672; 1686; 1704; 1726; 1746; 1792; 1849; 1863; 1887; 1918; 1957; 1971; 2112; 2207; 2231; 2254; 2277; 2295; 2317; 2338; 2357; 2376; 2405; 2426; 2440; 2466; 2554; 2580; 2629; 2670; 2688; 2727; 2743; 2781; 2838; 2853; 2910; 2930; 2944; 2961; 2975; 3012; 3027; 3070; 3153; 3220; 3251; 3271; 3286; 3331; 3345; 3411; 3425; 3444; 3460; 3501; 3521; 3568; 3618; 3634; 3654; 3679; 3699; 3722; 3749; 3767; 3793; 3833; 3859; 3883; 3939; 3953; 3981; 4024; 4045; 4080; 4124; 4212; 4236; 4258; 4278; 4294; 4315; 4329; 4348; 4432; 4452; 4480; 4495; 4529; 4571; 4598; 4613; 4658; 4682; 4696; 4718; 4744; 4764; 4788; 4814; 4862; 4881; 4900; 4926; 4961; 5006; 5036; 5050; 5101; 5115; 5140; 5156; 5177; 5206
FspEI	!NNNNNNNNNNNNNNNGG	145	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 616; 643; 685; 706; 730; 772; 791; 820; 856; 893; 916; 935; 958; 986; 1013; 1052; 1078; 1097; 1169; 1195; 1243; 1268; 1286; 1307; 1354; 1374; 1429; 1472; 1507; 1543; 1561; 1604; 1633; 1669; 1693; 1723; 1744; 1768; 1786; 1804; 1829; 1853; 1906; 2006; 2075; 2183; 2232; 2254; 2282; 2318; 2363; 2392; 2428; 2447; 2475; 2495; 2558; 2581; 2689; 2721; 2739; 2768; 2811; 2840; 2951; 2980; 3023; 3044; 3072; 3105; 3125; 3150; 3177; 3202; 3224; 3252; 3278; 3299; 3350; 3371; 3389; 3437; 3473; 3529; 3554; 3578; 3607; 3630; 3654; 3680; 3702; 3721; 3746; 3786; 3822; 3887; 3972; 3996; 4025; 4059; 4080; 4100; 4145; 4172; 4191; 4224; 4276; 4307; 4334; 4386; 4484; 4555; 4600; 4661; 4726; 4760; 4786; 4804; 4840; 4910; 4933; 4955; 4979; 5012; 5060; 5095; 5113; 5170
Fsp4HI	GC!NGC	34	759; 810; 954; 1071; 1252; 1726; 2012; 2531; 2553; 2567; 3005; 3144; 3196; 3207; 3297; 3302; 3339; 3380; 3467; 3470; 3473; 3709; 3805; 3846; 3860; 3974; 4313; 4328; 4539; 4745; 4748; 4813; 4956; 5111
GdiII	C!GGCCR	1	3141
GdiII	Y!GGCCG	3	3141; 3706; 3733

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GlaI	GC!GC	25	596; 1083; 1290; 1580; 1848; 2500; 2508; 2534; 2556; 2565; 2578; 2609; 3228; 3236; 3300; 3337; 3603; 3863; 4039; 4125; 4528; 4637; 4811; 4911; 4978
GluI	GC!NGC	34	759; 810; 954; 1071; 1252; 1726; 2012; 2531; 2553; 2567; 3005; 3144; 3196; 3207; 3297; 3302; 3339; 3380; 3467; 3470; 3473; 3709; 3805; 3846; 3860; 3974; 4313; 4328; 4539; 4745; 4748; 4813; 4956; 5111
GsaI	CCCAG!C	4	997; 2782; 2854; 4853
GsaI	GCTGG!G	2	1035; 3743
GsuI	CTGGAGNNNNNNNNNNNNNNNNNN!	2	1579; 4075
GsuI	!NNNNNNNNNNNNNNNCTCCAG	2	928; 4018
HaeI	WGG!CCW	11	1039; 1270; 1372; 1459; 1525; 1690; 3056; 3317; 4679; 5131; 5142
HaeII	RGCGC!Y	8	598; 1292; 1582; 1850; 2502; 2510; 3238; 4913
HaeIII	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1372; 1392; 1459; 1525; 1587; 1690; 2201; 2343; 2998; 3004; 3013; 3056; 3143; 3317; 3708; 3735; 4244; 4301; 4334; 4679; 5113; 5131; 5142
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1888; 3431
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	3	1854; 1876; 3397
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1887; 3430
HaeIV	!NNNNNNNGAYNNNNNNRTC	3	1856; 1878; 3399
HapII	C!CGG	21	601; 835; 1184; 1322; 1877; 2453; 3140; 3217; 3239; 3267; 3398; 3488; 3555; 3736; 4011; 4019; 4111; 4585; 4775; 4801; 4948
HgaI	GACGCNNNNN!	3	526; 3945; 4024
HgaI	!NNNNNNNNNNNGCGTC	4	1176; 2568; 4463; 5041
HhaI	GCG!C	25	597; 1084; 1291; 1581; 1849; 2501; 2509; 2535; 2557; 2566; 2579; 2610; 3229; 3237; 3301; 3338; 3604; 3864; 4040; 4126; 4529; 4638; 4812; 4912; 4979
HinI	GR!CGYC	10	122; 175; 258; 444; 1187; 1579; 1847; 3235; 3937; 4016
Hin1II	CATG!	30	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1425; 1470; 1521; 1569; 1605; 1740; 2665; 2805; 2877; 2968; 3109; 3454; 3640; 3671; 3697; 4053; 4437; 5157; 5208
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	2	1887; 3430
Hin4I	!NNNNNNNNNGABNNNNNNRTC	4	1855; 1877; 3398; 3428
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	3	1887; 3430; 3460
Hin4I	!NNNNNNNNNGAYNNNNNVTC	3	1855; 1877; 3398
Hin6I	G!CGC	25	595; 1082; 1289; 1579; 1847; 2499; 2507; 2533; 2555; 2564; 2577; 2608; 3227; 3235; 3299; 3336; 3602; 3862; 4038; 4124; 4527; 4636; 4810; 4910; 4977
HinP1I	G!CGC	25	595; 1082; 1289; 1579; 1847; 2499; 2507; 2533; 2555; 2564; 2577; 2608; 3227; 3235; 3299; 3336; 3602; 3862; 4038; 4124; 4527; 4636; 4810; 4910; 4977
HincII	GTY!RAC	1	1998
HindII	GTY!RAC	1	1998
HindIII	A!AGCTT	1	1343
Hinfi	G!ANTC	16	410; 740; 890; 1217; 1325; 1748; 2278; 2300; 2710; 3720; 3854; 3906; 3964; 4001; 4783; 5179
HpaI	GTT!AAC	1	1998
HpaII	C!CGG	21	601; 835; 1184; 1322; 1877; 2453; 3140; 3217; 3239; 3267; 3398; 3488; 3555; 3736; 4011; 4019; 4111; 4585; 4775; 4801; 4948
HphI	GGTGANNNNNNNN!	6	376; 627; 996; 1306; 4306; 4422
HphI	!NNNNNNNTCACC	5	885; 1590; 1722; 2352; 3413
Hpy8I	GTN!NAC	15	201; 539; 577; 672; 692; 987; 1191; 1200; 1767; 1826; 1998; 2282; 2299; 2354; 4841
Hpy99I	CGWCG!	10	754; 1234; 1249; 3325; 3353; 3647; 3662; 3939; 4324; 5057
Hpy166II	GTN!NAC	15	201; 539; 577; 672; 692; 987; 1191; 1200; 1767; 1826; 1998; 2282; 2299; 2354; 4841
Hpy188I	TCN!GA	14	585; 699; 1330; 1478; 2409; 3018; 3202; 3546; 3899; 4000; 4479; 4613; 4966; 5044
Hpy188III	TC!NNGA	23	1176; 1322; 1334; 1883; 2662; 2714; 3027; 3080; 3253; 3569; 3578; 3661; 3717; 3761; 3851; 3884; 3953; 4434; 4508; 4591; 4689; 4787; 4921
HpyAV	CCTTCNNNNNN!	7	780; 828; 873; 1470; 3880; 3987; 4666
HpyAV	!NNNNNGAAGG	10	700; 1072; 1794; 2468; 3363; 4092; 4108; 4291; 4608; 4918

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HpyCH4III	ACN!GT	14	76; 198; 269; 543; 581; 669; 2326; 3615; 3731; 3839; 4162; 4653; 5123; 5194
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 1405; 1817; 2295; 2307; 2350; 2460; 3351; 3538; 4319; 4452
HpyCH4V	TG!CA	20	692; 1014; 1130; 1512; 1984; 2011; 2079; 2796; 2805; 2868; 2877; 2992; 3068; 3127; 3286; 3461; 3475; 4545; 4841; 5208
HpyF3I	C!TNAG	11	869; 1327; 1692; 1717; 1866; 2715; 3017; 3898; 4347; 4470; 4879
HpyF10VI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 648; 1079; 2462; 2492; 2519; 2561; 2802; 2874; 2925; 3004; 3226; 3310; 3333; 3472; 3595; 3678; 3945; 4132; 4336; 4535; 5107
Hsp92I	GR!CGYC	10	122; 175; 258; 444; 1187; 1579; 1847; 3235; 3937; 4016
Hsp92II	CATG!	30	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1425; 1470; 1521; 1569; 1605; 1740; 2665; 2805; 2877; 2968; 3109; 3454; 3640; 3671; 3697; 4053; 4437; 5157; 5208
HspAI	G!CGC	25	595; 1082; 1289; 1579; 1847; 2499; 2507; 2533; 2555; 2564; 2577; 2608; 3227; 3235; 3299; 3336; 3602; 3862; 4038; 4124; 4527; 4636; 4810; 4910; 4977
KasI	G!GCGCC	3	1578; 1846; 3234
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1321
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	2	1473; 1892
KspAI	GTT!AAC	1	1998
Kzo9I	!GATC	26	585; 1124; 1150; 1330; 1439; 1473; 1655; 1870; 1879; 1892; 3072; 3076; 3095; 3406; 3484; 3565; 3574; 3652; 4028; 4044; 4403; 4415; 4493; 4501; 4512; 4587
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3579; 3789
LpnI	RGCI!GCY	8	596; 1290; 1580; 1848; 2500; 2508; 3236; 4911
LpnPI	CCDGNNNNNNNNNN!	68	102; 295; 614; 742; 799; 848; 881; 943; 958; 1007; 1087; 1111; 1135; 1197; 1284; 1335; 1408; 1444; 1522; 1570; 1595; 1686; 1729; 1890; 1972; 2277; 2466; 2689; 2727; 2743; 2783; 2838; 2855; 2955; 3040; 3153; 3230; 3252; 3275; 3411; 3425; 3444; 3501; 3568; 3618; 3634; 3691; 3749; 3958; 4024; 4048; 4124; 4213; 4316; 4349; 4580; 4598; 4744; 4764; 4788; 4814; 4863; 4961; 5006; 5036; 5115; 5140; 5177
LpnPI	!NNNNNNNNNNNNNCHGG	60	75; 268; 552; 586; 772; 820; 916; 1017; 1060; 1169; 1195; 1268; 1307; 1429; 1516; 1543; 1568; 1679; 1862; 2318; 2438; 2495; 2558; 2756; 2768; 2828; 2840; 3072; 3117; 3160; 3202; 3224; 3252; 3299; 3361; 3383; 3473; 3540; 3563; 3607; 3702; 3721; 3746; 3895; 3996; 4039; 4096; 4186; 4289; 4316; 4334; 4570; 4607; 4760; 4786; 4926; 4944; 4979; 5060; 5113
Lsp1109I	GCAGCNNNNNNNN!	8	821; 1263; 2023; 3308; 3350; 3871; 4324; 4824
Lsp1109I	!NNNNNNNNNNNGCTGC	8	940; 1712; 2517; 3182; 3366; 3459; 4525; 4731
LweI	GCATCNNNNN!	8	848; 1841; 2051; 2814; 2886; 3534; 3598; 3873
LweI	!NNNNNNNNNGATGC	7	357; 1001; 1169; 3193; 3448; 3664; 5056
MabI	A!CCWGGT	1	2824
MaeI	C!TAG	8	592; 1883; 2084; 2502; 3058; 4073; 4407; 4660
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 1405; 1817; 2295; 2307; 2350; 2460; 3351; 3538; 4319; 4452
MaeIII	!GTNAC	14	61; 148; 497; 891; 1087; 2023; 2524; 2536; 3355; 3661; 4351; 4617; 4733; 4796
MalI	GA!TC	26	587; 1126; 1152; 1332; 1441; 1475; 1657; 1872; 1881; 1894; 3074; 3078; 3097; 3408; 3486; 3567; 3576; 3654; 4030; 4046; 4405; 4417; 4495; 4503; 4514; 4589
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2659; 3848
MbiI	GAG!CGG	2	2495; 3902
MboI	!GATC	26	585; 1124; 1150; 1330; 1439; 1473; 1655; 1870; 1879; 1892; 3072; 3076; 3095; 3406; 3484; 3565; 3574; 3652; 4028; 4044; 4403; 4415; 4493; 4501; 4512; 4587
MboII	GAAGANNNNNNNN!	9	916; 1029; 1398; 1548; 2491; 2719; 3596; 3806; 4425
MboII	!NNNNNNNTCTTC	5	1407; 3886; 4053; 4253; 4496
McaTI	GCGC!GC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MfeI	C!AATTG	1	1985
MflI	R!GATCY	13	585; 1150; 1330; 1439; 1870; 1879; 3406; 3652; 4044; 4403; 4415; 4501; 4512
MhII	GDGCH!C	13	667; 694; 727; 1341; 1589; 2426; 3181; 3274; 3348; 3538; 3600; 4310; 4843
MIsI	TGG!CCA	2	1270; 3317
MluI	A!CGCGT	1	2121
MluNI	TGG!CCA	2	1270; 3317
MlyI	GAGTCNNNNN!	3	899; 2287; 2719
MlyI	!NNNNNGACTC	5	404; 1319; 2294; 3900; 4777
Mly113I	GG!CGCC	3	1579; 1847; 3235
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	2328
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	4760; 4944
MnII	CCTCNNNNNNN!	17	773; 842; 952; 967; 1050; 1183; 1536; 1618; 1701; 1846; 1954; 3018; 3836; 4042; 4356; 4726; 5050
MnII	!NNNNNGAGG	35	541; 654; 693; 714; 747; 864; 973; 1029; 1218; 1251; 1294; 1306; 1382; 1449; 1497; 1554; 1569; 1641; 1677; 1701; 1712; 1752; 1776; 1914; 2379; 2710; 2988; 3031; 3046; 3086; 3150; 3286; 3643; 4073; 4976
Mph1103I	ATGCA!T	3	2807; 2879; 5210
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1321
MroNI	G!CCGGC	3	2452; 3735; 4018
MroXI	GAANN!NN TTC	0	
MscI	TGG!CCA	2	1270; 3317
MseI	T!TAA	18	7; 629; 854; 1451; 1936; 1997; 2118; 2139; 2150; 2162; 2173; 2190; 2288; 2559; 4378; 4392; 4397; 4449
MslI	CAYNN!NNRTG	5	365; 613; 643; 1735; 3672
MspI	C!CGG	21	601; 835; 1184; 1322; 1877; 2453; 3140; 3217; 3239; 3267; 3398; 3488; 3555; 3736; 4011; 4019; 4111; 4585; 4775; 4801; 4948
Msp20I	TGG!CCA	2	1270; 3317
MspA1I	CMG!CKG	5	1063; 2733; 3341; 4570; 4815
MspCI	C!TTAAG	0	
MspJ1	CNNRRNNNNNNNNN!	268	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; 633; 651; 669; 699; 717; 732; 747; 765; 798; 813; 837; 856; 880; 893; 909; 927; 941; 957; 970; 984; 1005; 1018; 1039; 1058; 1072; 1086; 1104; 1117; 1134; 1147; 1161; 1174; 1188; 1209; 1222; 1241; 1260; 1283; 1304; 1334; 1348; 1367; 1380; 1394; 1407; 1421; 1434; 1448; 1479; 1495; 1521; 1543; 1557; 1570; 1587; 1600; 1614; 1642; 1657; 1672; 1685; 1704; 1717; 1741; 1758; 1782; 1801; 1830; 1843; 1862; 1878; 1895; 1908; 1923; 1942; 1959; 1972; 2013; 2027; 2040; 2058; 2096; 2111; 2129; 2170; 2194; 2214; 2232; 2253; 2276; 2308; 2323; 2345; 2363; 2376; 2397; 2414; 2427; 2440; 2456; 2469; 2499; 2514; 2539; 2557; 2570; 2585; 2609; 2623; 2647; 2672; 2688; 2726; 2742; 2781; 2795; 2809; 2837; 2853; 2867; 2881; 2910; 2923; 2944; 2953; 2975; 3005; 3021; 3039; 3069; 3092; 3116; 3140; 3159; 3187; 3213; 3229; 3242; 3265; 3279; 3299; 3312; 3326; 3345; 3359; 3372; 3388; 3403; 3416; 3432; 3447; 3463; 3488; 3507; 3523; 3536; 3549; 3567; 3581; 3595; 3611; 3633; 3649; 3668; 3690; 3706; 3729; 3748; 3762; 3778; 3792; 3812; 3828; 3841; 3863; 3896; 3910; 3930; 3943; 3957; 4011; 4024; 4047; 4060; 4079; 4096; 4123; 4159; 4192; 4211; 4236; 4257; 4284; 4297; 4314; 4328; 4343; 4359; 4419; 4444; 4460; 4482; 4495; 4509; 4540; 4554; 4579; 4597; 4612; 4625; 4644; 4657; 4672; 4701; 4720; 4738; 4763; 4778; 4797; 4813; 4832; 4850; 4866; 4880; 4899; 4926; 4949; 4971; 4990; 5005; 5018; 5035; 5055; 5082; 5095; 5114; 5139; 5162; 5176; 5189; 5206

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	218	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; 616; 643; 673; 697; 715; 739; 758; 780; 811; 830; 854; 887; 916; 958; 980; 1013; 1033; 1060; 1078; 1095; 1113; 1141; 1162; 1183; 1207; 1229; 1252; 1269; 1307; 1328; 1345; 1369; 1390; 1408; 1429; 1453; 1486; 1504; 1537; 1561; 1588; 1605; 1631; 1655; 1679; 1702; 1723; 1744; 1766; 1783; 1802; 1829; 1853; 1887; 1916; 1945; 1987; 2070; 2108; 2132; 2155; 2184; 2228; 2250; 2282; 2318; 2335; 2356; 2393; 2413; 2430; 2447; 2482; 2500; 2518; 2535; 2559; 2581; 2608; 2636; 2662; 2700; 2721; 2738; 2756; 2779; 2800; 2828; 2851; 2872; 2890; 2911; 2928; 2951; 2975; 2995; 3013; 3035; 3066; 3088; 3114; 3133; 3150; 3178; 3197; 3216; 3234; 3252; 3273; 3295; 3319; 3352; 3372; 3390; 3411; 3437; 3464; 3481; 3498; 3515; 3541; 3563; 3585; 3603; 3623; 3642; 3664; 3702; 3722; 3746; 3766; 3786; 3813; 3837; 3870; 3889; 3917; 3939; 3968; 3996; 4021; 4040; 4059; 4080; 4097; 4114; 4145; 4172; 4192; 4215; 4235; 4272; 4289; 4308; 4334; 4354; 4393; 4420; 4439; 4457; 4494; 4512; 4553; 4571; 4597; 4614; 4646; 4675; 4703; 4724; 4747; 4766; 4787; 4805; 4822; 4840; 4866; 4887; 4907; 4927; 4945; 4966; 4992; 5009; 5028; 5047; 5076; 5095; 5113; 5132; 5150; 5168; 5191
MspR9I	CC!NGG	24	90; 283; 787; 836; 931; 946; 1075; 1184; 1444; 1558; 1583; 2771; 2826; 2843; 3239; 3399; 3622; 4012; 4201; 4304; 4776; 4994; 5007; 5128
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1985
MvaI	CC!WGG	18	90; 283; 787; 931; 946; 1075; 1444; 1558; 1583; 2771; 2826; 2843; 3622; 4201; 4304; 4994; 5007; 5128
Mva1269I	GAATGCN!	1	1986
Mva1269I	G!CATTC	1	2079
MvnI	CG!CG	17	60; 1484; 1781; 2123; 2159; 2535; 2555; 2579; 2610; 3301; 3602; 4040; 4124; 4187; 4256; 4529; 5110
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 648; 1079; 2462; 2492; 2519; 2561; 2802; 2874; 2925; 3004; 3226; 3310; 3333; 3472; 3595; 3678; 3945; 4132; 4336; 4535; 5107
NaeI	GCC!GGC	3	2454; 3737; 4020
NarI	GG!CGCC	3	1579; 1847; 3235
NciI	CC!SGG	6	836; 1184; 3239; 3399; 4012; 4776
NcoI	C!CATGG	5	360; 611; 1736; 2964; 3667
NdeI	CA!TATG	1	234
NdeII	!GATC	26	585; 1124; 1150; 1330; 1439; 1473; 1655; 1870; 1879; 1892; 3072; 3076; 3095; 3406; 3484; 3565; 3574; 3652; 4028; 4044; 4403; 4415; 4493; 4501; 4512; 4587
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	731
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	767
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	2452; 3735; 4018
NheI	G!CTAGC	1	591
NlaIII	CATG!	30	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1425; 1470; 1521; 1569; 1605; 1740; 2665; 2805; 2877; 2968; 3109; 3454; 3640; 3671; 3697; 4053; 4437; 5157; 5208
NlaIV	GGN!NCC	24	467; 666; 726; 1117; 1320; 1393; 1580; 1587; 1787; 1848; 1872; 2390; 2411; 2423; 2614; 2775; 2847; 3236; 3271; 4119; 4198; 4243; 5086; 5125
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2067; 2382; 3974
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 991; 1277; 5046
Nii3877I	CYCGR!G	2	1338; 1649
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3024; 3460
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1007; 2989
NmeDI	RCCGGYNNNNNN!	5	612; 2464; 3566; 3747; 4030
NmeDI	!NNNNNNNNNNNNRCCGGY	5	587; 2439; 3541; 3722; 4005
NmuCI	!GTSAAC	5	891; 1087; 2524; 3355; 3661
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3337
NsiI	ATGCA!T	3	2807; 2879; 5210

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NspI	RCATG!Y	7	642; 1088; 1521; 2805; 2877; 3640; 5157
NspV	TT!CGAA	1	3917
OliI	CACNN!NNGTG	1	613
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 656; 806; 1058; 1556; 1778; 3542
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2805; 2877; 3640
PaeRI	C!TCGAG	1	1334
PagI	T!CATGA	2	2661; 4433
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4200; 4303
PauI	G!CGCGC	0	
PceI	AGG!CCT	4	1039; 1459; 1690; 3056
PciI	A!CATGT	2	1517; 5153
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3579; 3789
PcsI	WCGNNNN!NNNCGW	7	1253; 3529; 3606; 3849; 3923; 4316; 4834
PctI	GAATGCN!	1	1986
PctI	G!CATTC	1	2079
PdiI	GCC!GGC	3	2454; 3737; 4020
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	8	740; 1217; 1748; 3720; 3854; 3964; 4001; 5179
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3353
PfIMI	CCANNNN!NTGG	1	1209
PfoI	T!CCNGGA	3	944; 1442; 4010
PhoI	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1372; 1392; 1459; 1525; 1587; 1690; 2201; 2343; 2998; 3004; 3013; 3056; 3143; 3317; 3708; 3735; 4244; 4301; 4334; 4679; 5113; 5131; 5142
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	1	3616
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	3181; 3436
PleI	GAGTCNNNN!	3	898; 2286; 2718
PleI	!NNNNNGACTC	5	404; 1319; 2294; 3900; 4777
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2317
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	4447
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	1	4479
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2285
PpsI	GAGTCNNNN!	3	898; 2286; 2718
PpsI	!NNNNNGACTC	5	404; 1319; 2294; 3900; 4777
Ppu10I	A!TGCAT	3	2803; 2875; 5206
Ppu21I	YAC!GTR	4	340; 1818; 2351; 3539
PpuMI	RG!GWCCY	1	1506
PscI	A!CATGT	2	1517; 5153
PshAI	GACNN!NNGTC	1	1243
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2018; 2223
Psp03I	GGWC!C	5	1203; 1509; 1713; 3754; 4199
Psp5II	RG!GWCCY	1	1506
Psp6I	!CCWGG	18	88; 281; 785; 929; 944; 1073; 1442; 1556; 1581; 2769; 2824; 2841; 3620; 4199; 4302; 4992; 5005; 5126
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1341
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	18	88; 281; 785; 929; 944; 1073; 1442; 1556; 1581; 2769; 2824; 2841; 3620; 4199; 4302; 4992; 5005; 5126
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	24	467; 666; 726; 1117; 1320; 1393; 1580; 1587; 1787; 1848; 1872; 2390; 2411; 2423; 2614; 2775; 2847; 3236; 3271; 4119; 4198; 4243; 5086; 5125



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspOMI	G!GGCCC	1	1585
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	3	125; 2965; 3964
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3367
PspPI	G!GNCC	17	83; 276; 760; 1003; 1095; 1116; 1200; 1391; 1506; 1586; 1710; 2342; 3751; 4196; 4242; 4300; 4333
PspPPI	RG!GWCCY	1	1506
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	5	1413; 1711; 2788; 2860; 4366
PspPRI	!NNNNNNNNNNNNNCTGRGG	5	855; 1517; 1703; 2701; 3896
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	4	1394; 1509; 1588; 4336
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	2	4336; 4744
PsuI	R!GATCY	13	585; 1150; 1330; 1439; 1870; 1879; 3406; 3652; 4044; 4403; 4415; 4501; 4512
PsyI	GACN!NNGTC	1	3353
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2733; 3341
RcaI	T!CATGA	2	2661; 4433
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3750
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	2	1560; 1964
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	1	1733
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1555; 1777; 3541
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1554; 1776; 3540
RseI	CAYNN!NNRTG	5	365; 613; 643; 1735; 3672
RsrII	CG!GWCCG	1	3751
Rsr2I	CG!GWCCG	1	3751
SacI	GAGCT!C	1	1341
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	3579; 3789
SaqAI	T!TAA	18	7; 629; 854; 1451; 1936; 1997; 2118; 2139; 2150; 2162; 2173; 2190; 2288; 2559; 4378; 4392; 4397; 4449
SatI	GC!NGC	34	759; 810; 954; 1071; 1252; 1726; 2012; 2531; 2553; 2567; 3005; 3144; 3196; 3207; 3297; 3302; 3339; 3380; 3467; 3470; 3473; 3709; 3805; 3846; 3860; 3974; 4313; 4328; 4539; 4745; 4748; 4813; 4956; 5111
Sau96I	G!GNCC	17	83; 276; 760; 1003; 1095; 1116; 1200; 1391; 1506; 1586; 1710; 2342; 3751; 4196; 4242; 4300; 4333
Sau3AI	!GATC	26	585; 1124; 1150; 1330; 1439; 1473; 1655; 1870; 1879; 1892; 3072; 3076; 3095; 3406; 3484; 3565; 3574; 3652; 4028; 4044; 4403; 4415; 4493; 4501; 4512; 4587
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	899; 2287; 2719
SchI	!NNNNNGACTC	5	404; 1319; 2294; 3900; 4777
SciI	CTC!GAG	1	1336
ScrFI	CC!NGG	24	90; 283; 787; 836; 931; 946; 1075; 1184; 1444; 1558; 1583; 2771; 2826; 2843; 3239; 3399; 3622; 4012; 4201; 4304; 4776; 4994; 5007; 5128
SdaI	CCTGCA!GG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNN!	6	1041; 1470; 2813; 2885; 3054; 4996
SdeAI	!NNNNNNNNNNNNNNNNNNNNNNNNCTYCTG	2	3390; 3875
SdeOSI	GACNNNNRTGANNNNNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNNRTGA	1	245
SduI	GDGCH!C	13	667; 694; 727; 1341; 1589; 2426; 3181; 3274; 3348; 3538; 3600; 4310; 4843
SelI	!CGCG	17	58; 1482; 1779; 2121; 2157; 2533; 2553; 2577; 2608; 3299; 3600; 4038; 4122; 4185; 4254; 4527; 5108
SetI	ASST!	77	125; 137; 178; 261; 308; 342; 447; 552; 568; 626; 653; 749; 799; 820; 971; 977; 1106; 1124; 1136; 1175; 1199; 1243; 1247; 1262; 1305; 1311; 1320; 1341; 1347; 1408; 1511; 1559; 1631; 1718; 1727; 1766; 1820; 1925; 1946; 1955; 1967; 2016; 2183; 2298; 2310; 2353; 2390; 2440; 2463; 2587; 2735; 2830; 3023; 3136; 3264; 3343; 3354; 3426; 3497; 3541; 3801; 3947; 3991; 4322; 4353; 4412; 4455; 4598; 4619; 4718; 4855; 4870; 4889; 4901; 4945; 4991; 5042
SexAI	A!CCWGGT	1	2824
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNNN!	8	848; 1841; 2051; 2814; 2886; 3534; 3598; 3873
SfaNI	!NNNNNNNNNNNGATGC	7	357; 1001; 1169; 3193; 3448; 3664; 5056
SfcI	C!TRYAG	3	2570; 4697; 4888
SfiI	GGCCNNNN!NGGCC	1	3010
SfoI	GGC!GCC	3	1580; 1848; 3236
Sfr274I	C!TCGAG	1	1334
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	1	3917
SgeI	CNNGNNNNNNNNNN!	211	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 651; 669; 699; 723; 741; 756; 798; 813; 837; 856; 880; 893; 921; 942; 957; 984; 1006; 1039; 1059; 1072; 1086; 1104; 1117; 1134; 1147; 1167; 1188; 1209; 1222; 1260; 1283; 1304; 1334; 1348; 1367; 1380; 1395; 1434; 1449; 1479; 1495; 1521; 1543; 1563; 1578; 1594; 1614; 1657; 1685; 1706; 1719; 1749; 1764; 1782; 1830; 1855; 1869; 1889; 1942; 1971; 2013; 2096; 2134; 2170; 2254; 2276; 2308; 2345; 2363; 2382; 2397; 2439; 2456; 2473; 2508; 2522; 2539; 2561; 2585; 2609; 2674; 2688; 2726; 2742; 2782; 2795; 2814; 2837; 2854; 2867; 2886; 2916; 2937; 2954; 2977; 3012; 3039; 3070; 3092; 3118; 3140; 3159; 3187; 3223; 3242; 3265; 3279; 3299; 3312; 3326; 3345; 3359; 3378; 3410; 3424; 3437; 3463; 3494; 3507; 3524; 3541; 3555; 3572; 3590; 3605; 3633; 3649; 3668; 3690; 3706; 3729; 3748; 3773; 3792; 3812; 3839; 3863; 3896; 3915; 3943; 3957; 4023; 4047; 4062; 4085; 4106; 4123; 4171; 4198; 4212; 4241; 4265; 4298; 4315; 4335; 4348; 4361; 4419; 4446; 4465; 4495; 4520; 4540; 4554; 4579; 4597; 4634; 4672; 4701; 4729; 4743; 4763; 4778; 4799; 4813; 4832; 4850; 4866; 4906; 4926; 4953; 4971; 4992; 5005; 5018; 5035; 5059; 5082; 5114; 5139; 5166; 5188
SgeI	!NNNNNNNNNNNNNCNNG	183	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 625; 643; 673; 697; 715; 739; 772; 811; 830; 854; 895; 916; 958; 980; 1013; 1033; 1060; 1078; 1099; 1121; 1141; 1162; 1183; 1207; 1234; 1257; 1278; 1308; 1328; 1345; 1369; 1408; 1429; 1453; 1495; 1517; 1537; 1561; 1588; 1631; 1659; 1680; 1702; 1723; 1756; 1804; 1829; 1863; 1916; 1945; 1987; 2070; 2108; 2144; 2228; 2250; 2282; 2319; 2337; 2356; 2413; 2430; 2447; 2482; 2500; 2520; 2540; 2559; 2583; 2648; 2700; 2756; 2788; 2811; 2828; 2860; 2890; 2911; 2928; 2951; 2986; 3013; 3044; 3066; 3092; 3114; 3133; 3161; 3197; 3216; 3239; 3260; 3278; 3295; 3319; 3352; 3384; 3411; 3437; 3468; 3498; 3515; 3541; 3564; 3585; 3607; 3627; 3647; 3664; 3703; 3722; 3747; 3766; 3786; 3813; 3837; 3870; 3889; 3917; 3939; 3997; 4021; 4040; 4059; 4080; 4097; 4145; 4172; 4192; 4215; 4239; 4272; 4289; 4309; 4335; 4393; 4420; 4439; 4469; 4494; 4514; 4553; 4571; 4608; 4646; 4675; 4703; 4724; 4752; 4773; 4806; 4824; 4880; 4900; 4927; 4945; 4966; 4992; 5009; 5033; 5056; 5088; 5113; 5140; 5162; 5191
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2382; 4169; 4962
SimI	!GACCC	5	106; 1641; 3663; 4231; 4479
SinI	G!GWCC	5	1200; 1506; 1710; 3751; 4196
SlaI	C!TCGAG	1	1334
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 613; 643; 1735; 3672
SmlI	C!TYRAG	8	1135; 1174; 1334; 1340; 3626; 4508; 4785; 5047
SmoI	C!TYRAG	8	1135; 1174; 1334; 1340; 3626; 4508; 4785; 5047
SmuI	CCCGCNNNN!	10	93; 119; 286; 1068; 1170; 2557; 2912; 2933; 4129; 4261
SmuI	!NNNNNNGCGGG	6	1105; 2488; 3358; 3895; 4033; 4180
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2805; 2877; 3640
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	10	18; 1985; 2049; 2127; 2153; 2164; 2811; 2883; 2975; 4393
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	1	1506
SseBI	AGG!CCT	4	1039; 1459; 1690; 3056
SsiI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1482; 1659; 1779; 2550; 2553; 2567; 2657; 2905; 2917; 2926; 2938; 2948; 2959; 3005; 3144; 3207; 3709; 3754; 3820; 3846; 3971; 3974; 4122; 4254; 4561; 4705; 5201
SsiI	G!CGG	26	370; 403; 528; 758; 1070; 1112; 2495; 2522; 2610; 2720; 3301; 3365; 3466; 3469; 3749; 3804; 3902; 4040; 4187; 4327; 4570; 4815; 4936; 4955; 5082; 5110
SspI	AAT!ATT	2	2143; 2696
SspDI	G!GCGCC	3	1578; 1846; 3234
SspD5I	GGTGANNNNNNNN!	6	376; 627; 996; 1306; 4306; 4422
SspD5I	!NNNNNNNNTCACC	5	884; 1589; 1721; 2351; 3412
SstI	GAGCT!C	1	1341
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	929
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	1	1395
Sth132I	CCCGNNNN!	20	92; 118; 285; 851; 1067; 1169; 1190; 1652; 2434; 2556; 2911; 2932; 3245; 3648; 3787; 3858; 4128; 4260; 4490; 4928
Sth132I	!NNNNNNNNGCGG	21	15; 407; 470; 827; 900; 1104; 2435; 2487; 2588; 3315; 3357; 3390; 3894; 4003; 4032; 4179; 4283; 4314; 4767; 4811; 5019
Sth302II	CC!GG	21	602; 836; 1185; 1323; 1878; 2454; 3141; 3218; 3240; 3268; 3399; 3489; 3556; 3737; 4012; 4020; 4112; 4586; 4776; 4802; 4949
StrI	C!TCGAG	1	1334
StsI	GGATGNNNNNNNNNN!	6	1664; 1769; 3103; 3560; 3585; 4039
StsI	!NNNNNNNNNNNNNNNCATCC	6	680; 768; 825; 1686; 1818; 2907
StuI	AGG!CCT	4	1039; 1459; 1690; 3056
StyI	C!CWWGG	9	360; 611; 1367; 1736; 1850; 2964; 3057; 3667; 4072
StyD4I	!CCNGG	24	88; 281; 785; 834; 929; 944; 1073; 1182; 1442; 1556; 1581; 2769; 2824; 2841; 3237; 3397; 3620; 4010; 4199; 4302; 4774; 4992; 5005; 5126
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	14	76; 198; 269; 543; 581; 669; 2326; 3615; 3731; 3839; 4162; 4653; 5123; 5194
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 971; 1199; 1247; 1408; 1820; 2298; 2310; 2353; 2463; 3354; 3541; 4322; 4455
TaqI	T!CGA	17	752; 779; 1247; 1335; 1348; 1354; 2384; 3075; 3348; 3504; 3528; 3564; 3726; 3917; 3962; 4217; 5055
TaqII	GACCGANNNNNNNNNN!	4	1760; 2255; 3272; 3940
TaqII	!NNNNNNNNTCGGTC	1	4184
TaqII	CACCCANNNNNNNNNN!	2	742; 1803
TaqII	!NNNNNNNNTGGGTG	3	172; 3139; 3731
TasI	!AATT	10	18; 1985; 2049; 2127; 2153; 2164; 2811; 2883; 2975; 4393
TatI	W!GTACW	5	217; 297; 330; 381; 653
TauI	GCSG!C	17	761; 1073; 2555; 2569; 3007; 3146; 3209; 3304; 3469; 3472; 3711; 3807; 3848; 3976; 4330; 4958; 5113
TfiI	G!AWTC	8	740; 1217; 1748; 3720; 3854; 3964; 4001; 5179

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TliI	C!TCGAG	1	1334
TruII	T!TAA	18	7; 629; 854; 1451; 1936; 1997; 2118; 2139; 2150; 2162; 2173; 2190; 2288; 2559; 4378; 4392; 4397; 4449
Tru9I	T!TAA	18	7; 629; 854; 1451; 1936; 1997; 2118; 2139; 2150; 2162; 2173; 2190; 2288; 2559; 4378; 4392; 4397; 4449
TscAI	CASTGNN!	5	2081; 3364; 4474; 4745; 4758
TseI	G!CWGC	17	809; 953; 1251; 1725; 2011; 2530; 3195; 3296; 3338; 3379; 3472; 3859; 4312; 4538; 4744; 4747; 4812
TsoI	TARCCANNNNNNNNNNN!	2	2207; 2554
TsoI	!NNNNNNNNNTGGYTA	3	778; 2012; 3764
Tsp45I	!GTSAC	5	891; 1087; 2524; 3355; 3661
Tsp509I	!AATT	10	18; 1985; 2049; 2127; 2153; 2164; 2811; 2883; 2975; 4393
TspDTI	ATGAANNNNNNNNNNN!	5	661; 1585; 1993; 3294; 3998
TspDTI	!NNNNNNNNNTTCAT	8	26; 789; 810; 1482; 1689; 3712; 4168; 4375
TspEI	!AATT	10	18; 1985; 2049; 2127; 2153; 2164; 2811; 2883; 2975; 4393
TspGWI	ACGGANNNNNNNNNNN!	2	1768; 4110
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	5	2081; 3364; 4474; 4745; 4758
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3353
Tth111II	CAARCANNNNNNNNNNN!	3	841; 1855; 4562
Tth111III	!NNNNNNNNNTGYTTG	5	1414; 1606; 3670; 4530; 4569
UnbI	!GGNCC	17	82; 275; 759; 1002; 1094; 1115; 1199; 1390; 1505; 1585; 1709; 2341; 3750; 4195; 4241; 4299; 4332
Van9II	CCANNNN!NTGG	1	1209
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	690; 4839
VpaK11AI	!GGWCC	5	1199; 1505; 1709; 3750; 4195
VpaK11BI	G!GWCC	5	1200; 1506; 1710; 3751; 4196
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	3	2049; 2153; 2164
XbaI	T!CTAGA	1	1882
XceI	RCATG!Y	7	642; 1088; 1521; 2805; 2877; 3640; 5157
XcmI	CCANNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	1334
XhoII	R!GATCY	13	585; 1150; 1330; 1439; 1870; 1879; 3406; 3652; 4044; 4403; 4415; 4501; 4512
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3057; 4072
XmiI	GT!MKAC	1	1190
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	8	592; 1883; 2084; 2502; 3058; 4073; 4407; 4660
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2807; 2879; 5210