

pHyPer-nuc vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2278; 2483
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2566; 3522; 5311
AatI	AGG!CCT	1	3316
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	0	
AccII	CG!CG	23	60; 807; 901; 970; 1204; 1624; 1780; 1782; 1873; 1990; 2419; 2795; 2815; 2839; 2870; 3561; 3862; 4300; 4384; 4447; 4516; 4789; 5370
AccIII	T!CCGGA	2	636; 2037
Acc16I	TGC!GCA	3	1803; 1956; 3597
Acc36I	ACCTGCNNNN!	3	688; 3763; 4213
Acc36I	!NNNNNNNNGCAGGT	2	1809; 3382
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	7	465; 1293; 1331; 1731; 2648; 3494; 3529
AccB7I	CCANNNN!NTGG	1	764
AccBSI	CCG!CTC	2	2919; 4108
AccBSI	GAG!CGG	2	2755; 4162
AceIII	CAGCTCNNNNNNN!	2	1101; 2451
AceIII	!NNNNNNNNNNGAGCTG	6	552; 1251; 1302; 1335; 1656; 2041
AcI	C!CGC	48	58; 86; 98; 112; 279; 507; 589; 642; 687; 899; 985; 1061; 1234; 1237; 1514; 1555; 1622; 1661; 1778; 1857; 1916; 1950; 1961; 1988; 2810; 2813; 2827; 2917; 3165; 3177; 3186; 3198; 3208; 3219; 3265; 3404; 3467; 3969; 4014; 4080; 4106; 4231; 4234; 4382; 4514; 4821; 4965; 5461
AcI	G!CGG	30	370; 403; 528; 781; 1282; 1288; 1758; 1815; 1825; 2031; 2755; 2782; 2870; 2980; 3561; 3625; 3726; 3729; 4009; 4064; 4162; 4300; 4447; 4587; 4830; 5075; 5196; 5215; 5342; 5370
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	11	1251; 1836; 2138; 2147; 3363; 3674; 3920; 4312; 4671; 4769; 4855
AcIWI	!NNNNNGATCC	11	580; 794; 1052; 2052; 2076; 2100; 2125; 3739; 4283; 4670; 4767
AcoI	Y!GGCCR	8	916; 1018; 1367; 2003; 3401; 3575; 3966; 3993
AcsI	R!AATY	3	2309; 2413; 2424
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	5	1449; 1521; 1692; 3641; 4073
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4871
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	7	122; 175; 258; 444; 3495; 4197; 4276
AdeI	CACNNN!GTG	1	2611
AfaI	GT!AC	11	219; 244; 299; 332; 383; 540; 678; 910; 1269; 1725; 3801
AfeI	AGC!GCT	1	1846
AfiI	CCNNNNN!NNGG	22	49; 669; 764; 809; 1240; 1465; 1628; 2507; 2833; 3225; 3476; 4020; 4301; 4333; 4465; 4500; 4550; 4582; 4935; 5214; 5380; 5398
AfII	C!TTAAG	1	2377
AfIII	A!CRYGT	1	5413
AgeI	A!CCGGT	1	1734
AgsI	TTS!AA	12	837; 1055; 1550; 1598; 1688; 1749; 2024; 2906; 2950; 2960; 3373; 4949
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Ajnl	!CCWGG	19	88; 281; 1339; 1464; 1576; 1651; 1705; 1789; 1927; 1940; 3029; 3084; 3101; 3880; 4459; 4562; 5252; 5265; 5386
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	3	1326; 1476; 1653
AlfI	GCANNNNNNTGCNNNNNNNNNN!	2	3069; 3141
AlfI	!NNNNNNNNNGCANNNNNNNTGC	2	3035; 3107
AloI	GAACNNNNNTCCNNNNNNNNNN!	1	2577
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	2545
AluI	AG!CT	25	566; 725; 1091; 1165; 1265; 1316; 1349; 1421; 1433; 1454; 1670; 1718; 1973; 2055; 2274; 2441; 2698; 2993; 3281; 3601; 4059; 4856; 5113; 5159; 5249
AluBI	AG!CT	25	566; 725; 1091; 1165; 1265; 1316; 1349; 1421; 1433; 1454; 1670; 1718; 1973; 2055; 2274; 2441; 2698; 2993; 3281; 3601; 4059; 4856; 5113; 5159; 5249
AlwI	GGATCNNNN!	11	1251; 1836; 2138; 2147; 3363; 3674; 3920; 4312; 4671; 4769; 4855
AlwI	!NNNNNGATCC	11	580; 794; 1052; 2052; 2076; 2100; 2125; 3739; 4283; 4670; 4767
Alw21I	GWGCW!C	3	3608; 3798; 5103
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	621; 2919; 3337; 4356; 4484
Alw44I	G!TGCAC	1	5099
AlwNI	CAGNNN!CTG	3	764; 4596; 5004
Ama87I	C!YCGRG	1	2050
Aor13HI	T!CCGGA	2	636; 2037
Aor51HI	AGC!GCT	1	1846
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	3	3063; 3135; 4597
ApaLI	G!TGCAC	1	5099
ApeKI	G!CWGC	25	644; 704; 1081; 1088; 1139; 1142; 1300; 1454; 1535; 1952; 1957; 1970; 2271; 2790; 3455; 3556; 3598; 3639; 3732; 4119; 4572; 4798; 5004; 5007; 5072
ApoI	R!AATTY	3	2309; 2413; 2424
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4010
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3804; 4457; 5295
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	2	1941; 3894
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	1366
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	2	1336; 3323
AquIII	!NNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	4065
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNCRAANNNNNNNGTC	1	1558
ArsI	CRAANNNNNGTCCNNNNNNNNNN!	1	1590
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	33	586; 800; 882; 921; 972; 1058; 1206; 1244; 1436; 1829; 2047; 2058; 2082; 2106; 2131; 2140; 2153; 3333; 3337; 3356; 3667; 3745; 3826; 3835; 3913; 4289; 4305; 4664; 4676; 4754; 4762; 4773; 4848
AsiGI	A!CCGGT	1	1734
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	3	632; 1005; 3613
Asp700I	GAANN!NNTTC	1	1506
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3317; 4332
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	33	597; 770; 809; 970; 1204; 1585; 1626; 1782; 1804; 1847; 1867; 1957; 1992; 2761; 2769; 2795; 2817; 2826; 2839; 2870; 3489; 3497; 3561; 3598; 3864; 4124; 4300; 4386; 4789; 4898; 5072; 5172; 5239

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AspS9I	G!GNCC	13	83; 276; 639; 672; 1131; 1214; 1468; 2602; 4011; 4456; 4502; 4560; 4593
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	4177
AsuC2I	CC!SGG	7	1241; 1325; 1754; 3499; 3659; 4272; 5036
AsuHPI	GGTANNNNNNNN!	6	376; 824; 1643; 1667; 4566; 4682
AsuHPI	!NNNNNNNTCACC	5	876; 1313; 1939; 2612; 3673
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	1	2050
AvaII	G!GWCC	5	639; 672; 1214; 4011; 4456
AviII	TGC!GCA	3	1803; 1956; 3597
AvrII	C!CTAGG	2	3317; 4332
AxyI	CC!TNAGG	2	2975; 4607
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	6	1336; 1465; 1714; 3441; 3534; 5103
BalI	TGG!CCA	2	2005; 3577
BamHI	G!GATCC	1	2130
BanI	G!GYRCC	7	465; 1293; 1331; 1731; 2648; 3494; 3529
BanII	GRGCY!C	3	2686; 3860; 4570
BanIII	AT!CGAT	1	3335
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	1	764
BauI	C!ACGAG	2	4213; 5240
BauI	C!TCGTG	2	1476; 4087
BbeI	GGCG!C	1	3498
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNNGTCTTC	0	
BbuI	GCATG!C	3	3065; 3137; 3900
BbvI	GCAGCNNNNNNN!	11	1093; 1312; 1547; 1969; 1982; 2283; 3568; 3610; 4131; 4584; 5084
BbvI	!NNNNNNNNNNNGCTGC	11	631; 691; 1126; 1441; 1939; 2777; 3442; 3626; 3719; 4785; 4991
Bbv12I	GWGCW!C	3	3608; 3798; 5103
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	8	1128; 1344; 1596; 1992; 2625; 3189; 3715; 4217
BccI	!NNNNNGATGG	9	602; 908; 948; 1272; 1869; 1995; 2593; 3373; 3801
BceAI	ACGGCNNNNNNNNNN!	11	1052; 1094; 1145; 1370; 1430; 1511; 1622; 1712; 1745; 3921; 4408
BceAI	!NNNNNNNNNNNGCCGT	5	827; 1877; 2636; 3454; 4913
Bcefl	ACGGCNNNNNNNNNN!	11	1052; 1094; 1145; 1370; 1430; 1511; 1622; 1712; 1745; 3921; 4408
Bcefl	!NNNNNNNNNNNGCCGT	5	828; 1878; 2637; 3455; 4914
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	1420
BcgI	!NNNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	1	1386
BciVI	GTATCCNNNNN!	3	2924; 3714; 5215
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2152
BcnI	CC!SGG	7	1241; 1325; 1754; 3499; 3659; 4272; 5036
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	2175; 5348
BdaI	!NNNNNNNNNTGANNNNNNTCA	2	2141; 5314
BfaI	C!TAG	8	592; 2143; 2344; 2762; 3318; 4333; 4667; 4920
BfiI	ACTGGGNNNN!	1	3444

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BfiI	!NNNNCCCAGT	2	289; 3196
BfmI	C!TRYAG	3	2830; 4957; 5148
BfoI	RGCGC!Y	6	598; 1848; 2762; 2770; 3498; 5173
BfrI	C!TTAAG	1	2377
BfuI	GATCCNNNNNN!	3	2924; 3714; 5215
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	3	688; 3763; 4213
BfuAI	!NNNNNNNGCAGGT	2	1809; 3382
BfuCI	!GATC	33	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2046; 2057; 2081; 2105; 2130; 2139; 2152; 3332; 3336; 3355; 3666; 3744; 3825; 3834; 3912; 4288; 4304; 4663; 4675; 4753; 4761; 4772; 4847
BglI	GCCNNNN!NGGC	6	90; 212; 283; 622; 924; 3270
BglII	A!GATCT	1	2046
BisI	GC!NGC	45	645; 705; 782; 1082; 1089; 1140; 1143; 1237; 1301; 1455; 1536; 1816; 1857; 1916; 1953; 1958; 1961; 1971; 2272; 2791; 2813; 2827; 3265; 3404; 3456; 3467; 3557; 3562; 3599; 3640; 3727; 3733; 3969; 4065; 4106; 4120; 4234; 4573; 4588; 4799; 5005; 5008; 5073; 5216; 5371
BlnI	C!CTAGG	2	3317; 4332
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	45	646; 706; 783; 1083; 1090; 1141; 1144; 1238; 1302; 1456; 1537; 1817; 1858; 1917; 1954; 1959; 1962; 1972; 2273; 2792; 2814; 2828; 3266; 3405; 3457; 3468; 3558; 3563; 3600; 3641; 3728; 3734; 3970; 4066; 4107; 4121; 4235; 4574; 4589; 4800; 5006; 5009; 5074; 5217; 5372
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	5	639; 672; 1214; 4011; 4456
Bme1390I	CC!NGG	26	90; 283; 1241; 1325; 1341; 1466; 1578; 1653; 1707; 1754; 1791; 1929; 1942; 3031; 3086; 3103; 3499; 3659; 3882; 4272; 4461; 4564; 5036; 5254; 5267; 5388
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	1	2050
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	13	84; 277; 640; 673; 1132; 1215; 1469; 2603; 4012; 4457; 4503; 4561; 4594
BmiI	GGN!NCC	20	467; 1133; 1295; 1333; 1733; 1909; 2132; 2650; 2671; 2683; 2874; 3035; 3107; 3496; 3531; 4379; 4458; 4503; 5346; 5385
BmrI	ACTGGGNNNNN!	1	3444
BmrI	!NNNNCCCAGT	2	289; 3196
BmrFI	CC!NGG	26	90; 283; 1241; 1325; 1341; 1466; 1578; 1653; 1707; 1754; 1791; 1929; 1942; 3031; 3086; 3103; 3499; 3659; 3882; 4272; 4461; 4564; 5036; 5254; 5267; 5388
BmsI	GCATCNNNNN!	9	1048; 1672; 1687; 2311; 3074; 3146; 3794; 3858; 4133
BmsI	!NNNNNNNNNGATGC	7	357; 934; 1394; 3453; 3708; 3924; 5316
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	3444
BmuI	!NNNNCCCAGT	2	289; 3196
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3284; 4183
BpI	!NNNNNNNNNGAGNNNNNCTC	2	3252; 4151
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	1242; 1740; 4335
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	4278
Bpu10I	CC!TNAGC	2	1161; 1179
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	4177
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4789; 5328
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	2	3871; 5030
BpuMI	CC!SGG	7	1241; 1325; 1754; 3499; 3659; 4272; 5036
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	

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BsaI	!NNNNNGAGACC	1	4484
Bsa29I	AT!CGAT	1	3335
BsaAI	YAC!GTR	3	340; 2611; 3799
BsaBI	GATNN!NNATC	2	2157; 3354
BsaHI	GR!CGYC	7	122; 175; 258; 444; 3495; 4197; 4276
BsaJI	C!CNNGG	24	360; 601; 888; 1324; 1464; 1487; 1627; 1651; 1706; 1753; 3029; 3101; 3224; 3259; 3268; 3317; 3658; 3927; 4332; 4459; 4460; 4562; 4563; 5253
BsaMI	GAATGCN!	2	909; 2246
BsaMI	G!CATTC	2	828; 2339
BsaWI	W!CCGGW	8	636; 1734; 2037; 2136; 3526; 4370; 5060; 5207
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2575
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2545
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	2496; 4403
Bsc4I	CCNNNNN!NNGG	22	49; 669; 764; 809; 1240; 1465; 1628; 2507; 2833; 3225; 3476; 4020; 4301; 4333; 4465; 4500; 4550; 4582; 4935; 5214; 5380; 5398
BscAI	GCATCNNNN!	9	1047; 1671; 1686; 2310; 3073; 3145; 3793; 3857; 4132
BscAI	!NNNNNNGATGC	7	360; 937; 1397; 3456; 3711; 3927; 5319
Bse1I	ACTGGN!	5	769; 778; 3439; 3640; 4886
Bse1I	C!CAGT	7	295; 758; 1169; 2524; 3202; 4998; 5011
Bse8I	GATNN!NNATC	2	2157; 3354
Bse21I	CC!TNAGG	2	2975; 4607
Bse118I	R!CCGGY	8	987; 1296; 1446; 1734; 2712; 3814; 3995; 4278
BseAI	T!CCGGA	2	636; 2037
BseBI	CC!WGG	19	90; 283; 1341; 1466; 1578; 1653; 1707; 1791; 1929; 1942; 3031; 3086; 3103; 3882; 4461; 4564; 5254; 5267; 5388
BseCI	AT!CGAT	1	3335
BseDI	C!CNNGG	24	360; 601; 888; 1324; 1464; 1487; 1627; 1651; 1706; 1753; 3029; 3101; 3224; 3259; 3268; 3317; 3658; 3927; 4332; 4459; 4460; 4562; 4563; 5253
Bse3DI	GCAATGNN!	2	985; 3728
Bse3DI	!CATTGC	0	
BseGI	GGATTGNN!	7	1283; 1766; 2006; 3355; 3812; 3837; 4291
BseGI	!CATCC	4	1336; 1702; 1984; 3181
BseJI	GATNN!NNATC	2	2157; 3354
BseLI	CCNNNNN!NNGG	22	49; 669; 764; 809; 1240; 1465; 1628; 2507; 2833; 3225; 3476; 4020; 4301; 4333; 4465; 4500; 4550; 4582; 4935; 5214; 5380; 5398
BseMI	GCAATGNN!	2	985; 3728
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	2057; 4621
BseMII	!NNNNNNNNCTGAG	7	1152; 1170; 2966; 3268; 4149; 4721; 5130
BseNI	ACTGGN!	5	769; 778; 3439; 3640; 4886
BseNI	C!CAGT	7	295; 758; 1169; 2524; 3202; 4998; 5011
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1326; 3313
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	6	1336; 1465; 1714; 3441; 3534; 5103
BseXI	GCAGCNNNNNNNN!	11	1093; 1312; 1547; 1969; 1982; 2283; 3568; 3610; 4131; 4584; 5084
BseXI	!NNNNNNNNNNNGCTGC	11	631; 691; 1126; 1441; 1939; 2777; 3442; 3626; 3719; 4785; 4991
BseX3I	C!GGCCG	1	3401
BseYI	C!CCAGC	3	3038; 3110; 5109
BseYI	G!CTGGG	1	3999
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1107
BsgI	!NNNNNNNNNNNNNNCTGCAC	3	630; 690; 1424
Bsh1236I	CG!CG	23	60; 807; 901; 970; 1204; 1624; 1780; 1782; 1873; 1990; 2419; 2795; 2815; 2839; 2870; 3561; 3862; 4300; 4384; 4447; 4516; 4789; 5370
Bsh1285I	CGRY!CG	2	3404; 5079

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BshFI	GG!CC	29	84; 277; 918; 1020; 1047; 1132; 1369; 1469; 1498; 1927; 1983; 2005; 2461; 2603; 3258; 3264; 3273; 3316; 3403; 3577; 3968; 3995; 4504; 4561; 4594; 4939; 5373; 5391; 5402
BshNI	G!GYRCC	7	465; 1293; 1331; 1731; 2648; 3494; 3529
BshTI	A!CCGGT	1	1734
BshVI	AT!CGAT	1	3335
BsiEI	CGRY!CG	2	3404; 5079
BsiHKAI	GWGCW!C	3	3608; 3798; 5103
BsiHKCI	C!YCGRG	1	2050
BsiSI	C!CGG	29	637; 988; 1240; 1297; 1324; 1387; 1447; 1735; 1753; 1860; 1905; 2038; 2137; 2713; 3400; 3477; 3499; 3527; 3658; 3748; 3815; 3996; 4271; 4279; 4371; 4845; 5035; 5061; 5208
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	22	49; 669; 764; 809; 1240; 1465; 1628; 2507; 2833; 3225; 3476; 4020; 4301; 4333; 4465; 4500; 4550; 4582; 4935; 5214; 5380; 5398
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3646; 4178; 4287
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3011; 3083; 3147; 4442
BsmI	GAATGCN!	2	909; 2246
BsmI	G!CATTC	2	828; 2339
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	621; 2919; 3337; 4356; 4484
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	621
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3646; 4178; 4287
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3011; 3083; 3147; 4442
BsnI	GG!CC	29	84; 277; 918; 1020; 1047; 1132; 1369; 1469; 1498; 1927; 1983; 2005; 2461; 2603; 3258; 3264; 3273; 3316; 3403; 3577; 3968; 3995; 4504; 4561; 4594; 4939; 5373; 5391; 5402
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	4484
BsoBI	C!YCGRG	1	2050
Bsp13I	T!CCGGA	2	636; 2037
Bsp19I	C!CATGG	4	360; 601; 3224; 3927
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4298
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	4719; 4897
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	4751; 4929
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 4266
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4177
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	33	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2046; 2057; 2081; 2105; 2130; 2139; 2152; 3332; 3336; 3355; 3666; 3744; 3825; 3834; 3912; 4288; 4304; 4663; 4675; 4753; 4761; 4772; 4847
Bsp1286I	GDGCH!C	11	1336; 1465; 1714; 2686; 3441; 3534; 3608; 3798; 3860; 4570; 5103
Bsp1407I	T!GTACA	1	1267
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	48	58; 86; 98; 112; 279; 507; 589; 642; 687; 899; 985; 1061; 1234; 1237; 1514; 1555; 1622; 1661; 1778; 1857; 1916; 1950; 1961; 1988; 2810; 2813; 2827; 2917; 3165; 3177; 3186; 3198; 3208; 3219; 3265; 3404; 3467; 3969; 4014; 4080; 4106; 4231; 4234; 4382; 4514; 4821; 4965; 5461
BspACI	G!CGG	30	370; 403; 528; 781; 1282; 1288; 1758; 1815; 1825; 2031; 2755; 2782; 2870; 2980; 3561; 3625; 3726; 3729; 4009; 4064; 4162; 4300; 4447; 4587; 4830; 5075; 5196; 5215; 5342; 5370
BspCNI	CTCAGNNNNNNNN!	2	2056; 4620
BspCNI	!NNNNNNNCTGAG	7	1153; 1171; 2967; 3269; 4150; 4722; 5131
BspDI	AT!CGAT	1	3335
BspD6I	GACTCNNNN!	5	418; 2049; 2568; 4174; 5051
BspD6I	!NNNNNGAGTC	2	2531; 2963
BspEI	T!CCGGA	2	636; 2037
BspFNI	CG!CG	23	60; 807; 901; 970; 1204; 1624; 1780; 1782; 1873; 1990; 2419; 2795; 2815; 2839; 2870; 3561; 3862; 4300; 4384; 4447; 4516; 4789; 5370
BspHI	T!CATGA	2	2921; 4693

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspLI	GGN!NCC	20	467; 1133; 1295; 1333; 1733; 1909; 2132; 2650; 2671; 2683; 2874; 3035; 3107; 3496; 3531; 4379; 4458; 4503; 5346; 5385
BspMI	ACCTGCNNNN!	3	688; 3763; 4213
BspMI	!NNNNNNNNGCAGGT	2	1809; 3382
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	11	1251; 1836; 2138; 2147; 3363; 3674; 3920; 4312; 4671; 4769; 4855
BspPI	!NNNNNGATCC	11	580; 794; 1052; 2052; 2076; 2100; 2125; 3739; 4283; 4670; 4767
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	2	3839; 4049
BspTI	C!TTAAG	1	2377
BspT104I	TT!CGAA	1	4177
BspT107I	G!GYRCC	7	465; 1293; 1331; 1731; 2648; 3494; 3529
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	4484
BsrI	ACTGGN!	5	769; 778; 3439; 3640; 4886
BsrI	C!CAGT	7	295; 758; 1169; 2524; 3202; 4998; 5011
BsrBI	CCG!CTC	2	2919; 4108
BsrBI	GAG!CGG	2	2755; 4162
BsrDI	GCAATGNN!	2	985; 3728
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	8	987; 1296; 1446; 1734; 2712; 3814; 3995; 4278
BsrGI	T!GTACA	1	1267
BsrSI	ACTGGN!	5	769; 778; 3439; 3640; 4886
BsrSI	C!CAGT	7	295; 758; 1169; 2524; 3202; 4998; 5011
BssAI	R!CCGGY	8	987; 1296; 1446; 1734; 2712; 3814; 3995; 4278
BssECI	C!CNNGG	24	360; 601; 888; 1324; 1464; 1487; 1627; 1651; 1706; 1753; 3029; 3101; 3224; 3259; 3268; 3317; 3658; 3927; 4332; 4459; 4460; 4562; 4563; 5253
BssHII	G!CGCGC	0	
BssKI	!CCNGG	26	88; 281; 1239; 1323; 1339; 1464; 1576; 1651; 1705; 1752; 1789; 1927; 1940; 3029; 3084; 3101; 3497; 3657; 3880; 4270; 4459; 4562; 5034; 5252; 5265; 5386
BssMI	!GATC	33	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2046; 2057; 2081; 2105; 2130; 2139; 2152; 3332; 3336; 3355; 3666; 3744; 3825; 3834; 3912; 4288; 4304; 4663; 4675; 4753; 4761; 4772; 4847
BssNI	GR!CGYC	7	122; 175; 258; 444; 3495; 4197; 4276
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4213; 5240
BssSI	C!TCGTG	2	1476; 4087
BssTII	C!CWWGG	6	360; 601; 3224; 3317; 3927; 4332
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	6	2064; 2088; 2112; 2962; 3839; 4049
Bst98I	C!TTAAG	1	2377
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	7	122; 175; 258; 444; 3495; 4197; 4276
BstAFI	C!TTAAG	1	2377
BstAPI	GCANNNN!NTGC	3	3062; 3134; 4596
BstAUI	T!GTACA	1	1267
BstBI	TT!CGAA	1	4177
Bst2BI	C!ACGAG	2	4213; 5240
Bst2BI	C!TCGTG	2	1476; 4087
BstBAI	YAC!GTR	3	340; 2611; 3799
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 668; 676; 963; 2586; 3875; 3991; 4099; 4422; 4913; 5383; 5454
BstC8I	GCN!NGC	39	86; 279; 593; 614; 618; 868; 989; 1086; 1093; 1419; 1452; 1514; 1843; 1849; 1975; 2714; 2757; 2771; 3044; 3063; 3116; 3135; 3389; 3575; 3794; 3860; 3866; 3898; 3939; 3943; 3997; 4280; 4467; 4514; 4570; 4592; 4803; 5363; 5400
BstDEI	C!TNAG	9	1161; 1179; 2043; 2975; 3277; 4158; 4607; 4730; 5139
BstDSI	C!CRYGG	5	360; 601; 888; 3224; 3927
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	7	1283; 1766; 2006; 3355; 3812; 3837; 4291

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstF5I	!CATCC	4	1336; 1702; 1984; 3181
BstFNI	CG!CG	23	60; 807; 901; 970; 1204; 1624; 1780; 1782; 1873; 1990; 2419; 2795; 2815; 2839; 2870; 3561; 3862; 4300; 4384; 4447; 4516; 4789; 5370
BstH2I	RGCGC!Y	6	598; 1848; 2762; 2770; 3498; 5173
BstHHI	GCG!C	33	597; 770; 809; 970; 1204; 1585; 1626; 1782; 1804; 1847; 1867; 1957; 1992; 2761; 2769; 2795; 2817; 2826; 2839; 2870; 3489; 3497; 3561; 3598; 3864; 4124; 4300; 4386; 4789; 4898; 5072; 5172; 5239
BstKTI	GAT!C	33	588; 802; 884; 923; 974; 1060; 1208; 1246; 1438; 1831; 2049; 2060; 2084; 2108; 2133; 2142; 2155; 3335; 3339; 3358; 3669; 3747; 3828; 3837; 3915; 4291; 4307; 4666; 4678; 4756; 4764; 4775; 4850
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	5	621; 2919; 3337; 4356; 4484
BstMBI	!GATC	33	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2046; 2057; 2081; 2105; 2130; 2139; 2152; 3332; 3336; 3355; 3666; 3744; 3825; 3834; 3912; 4288; 4304; 4663; 4675; 4753; 4761; 4772; 4847
BstMCI	CGRY!CG	2	3404; 5079
BstMWI	GCNNNNN!NNGC	39	90; 212; 244; 283; 376; 400; 622; 863; 924; 984; 997; 1300; 1387; 1447; 1460; 1504; 1786; 1853; 1924; 1989; 2722; 2752; 2779; 2821; 3062; 3134; 3185; 3264; 3486; 3570; 3593; 3732; 3855; 3938; 4205; 4392; 4596; 4795; 5367
BstNI	CC!WGG	19	90; 283; 1341; 1466; 1578; 1653; 1707; 1791; 1929; 1942; 3031; 3086; 3103; 3882; 4461; 4564; 5254; 5267; 5388
BstNSI	RCATG!Y	4	3065; 3137; 3900; 5417
BstOI	CC!WGG	19	90; 283; 1341; 1466; 1578; 1653; 1707; 1791; 1929; 1942; 3031; 3086; 3103; 3882; 4461; 4564; 5254; 5267; 5388
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	26	88; 281; 1239; 1323; 1339; 1464; 1576; 1651; 1705; 1752; 1789; 1927; 1940; 3029; 3084; 3101; 3497; 3657; 3880; 4270; 4459; 4562; 5034; 5252; 5265; 5386
BstSFI	C!TRYAG	3	2830; 4957; 5148
BstSLI	GKGC!C	6	1336; 1465; 1714; 3441; 3534; 5103
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	23	60; 807; 901; 970; 1204; 1624; 1780; 1782; 1873; 1990; 2419; 2795; 2815; 2839; 2870; 3561; 3862; 4300; 4384; 4447; 4516; 4789; 5370
Bst2UI	CC!WGG	19	90; 283; 1341; 1466; 1578; 1653; 1707; 1791; 1929; 1942; 3031; 3086; 3103; 3882; 4461; 4564; 5254; 5267; 5388
BstV1I	GCAGCNNNNNNN!	11	1093; 1312; 1547; 1969; 1982; 2283; 3568; 3610; 4131; 4584; 5084
BstV1I	!NNNNNNNNNNNGCTGC	11	631; 691; 1126; 1441; 1939; 2777; 3442; 3626; 3719; 4785; 4991
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	1	608
BstX2I	R!GATCY	14	585; 1057; 2046; 2081; 2105; 2130; 2139; 3666; 3912; 4304; 4663; 4675; 4761; 4772
BstYI	R!GATCY	14	585; 1057; 2046; 2081; 2105; 2130; 2139; 3666; 3912; 4304; 4663; 4675; 4761; 4772
BstZI	C!GGCCG	1	3401
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2924; 3714; 5215
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3335
Bsu36I	CC!TNAGG	2	2975; 4607
BsuRI	GG!CC	29	84; 277; 918; 1020; 1047; 1132; 1369; 1469; 1498; 1927; 1983; 2005; 2461; 2603; 3258; 3264; 3273; 3316; 3403; 3577; 3968; 3995; 4504; 4561; 4594; 4939; 5373; 5391; 5402
BsuTUI	AT!CGAT	1	3335
BtgI	C!CRYGG	5	360; 601; 888; 3224; 3927
BtgZI	GCGATGNNNNNNNNN!	4	1417; 1888; 2612; 3947
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 3766; 4110

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BthCI	GCNG!C	45	647; 707; 784; 1084; 1091; 1142; 1145; 1239; 1303; 1457; 1538; 1818; 1859; 1918; 1955; 1960; 1963; 1973; 2274; 2793; 2815; 2829; 3267; 3406; 3458; 3469; 3559; 3564; 3601; 3642; 3729; 3735; 3971; 4067; 4108; 4122; 4236; 4575; 4590; 4801; 5007; 5010; 5075; 5218; 5373
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2334
BtsCI	GGATGNN!	7	1283; 1766; 2006; 3355; 3812; 3837; 4291
BtsCI	!CATCC	4	1336; 1702; 1984; 3181
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	688; 3763; 4213
BveI	!NNNNNNNNNGCAGGT	2	1809; 3382
Cac8I	GCN!NGC	39	86; 279; 593; 614; 618; 868; 989; 1086; 1093; 1419; 1452; 1514; 1843; 1849; 1975; 2714; 2757; 2771; 3044; 3063; 3116; 3135; 3389; 3575; 3794; 3860; 3866; 3898; 3939; 3943; 3997; 4280; 4467; 4514; 4570; 4592; 4803; 5363; 5400
CaiI	CAGNNN!CTG	3	764; 4596; 5004
CciI	T!CATGA	2	2921; 4693
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	8	352; 1124; 1667; 1682; 3784; 3789; 3987; 4128
CdiI	C!GATG	6	631; 913; 1403; 1874; 2598; 3933
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	5367
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3156; 3198
CelII	GC!TNAGC	0	
CfoI	GCG!C	33	597; 770; 809; 970; 1204; 1585; 1626; 1782; 1804; 1847; 1867; 1957; 1992; 2761; 2769; 2795; 2817; 2826; 2839; 2870; 3489; 3497; 3561; 3598; 3864; 4124; 4300; 4386; 4789; 4898; 5072; 5172; 5239
CfrI	Y!GGCCR	8	916; 1018; 1367; 2003; 3401; 3575; 3966; 3993
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	8	987; 1296; 1446; 1734; 2712; 3814; 3995; 4278
Cfr13I	G!GNCC	13	83; 276; 639; 672; 1131; 1214; 1468; 2602; 4011; 4456; 4502; 4560; 4593
Cfr42I	CCGC!GG	0	
ChaI	GATC!	33	589; 803; 885; 924; 975; 1061; 1209; 1247; 1439; 1832; 2050; 2061; 2085; 2109; 2134; 2143; 2156; 3336; 3340; 3359; 3670; 3748; 3829; 3838; 3916; 4292; 4308; 4667; 4679; 4757; 4765; 4776; 4851
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	3312; 4752; 4852; 4930
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2979; 3074; 4266; 4816; 5371
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNNNN!	7	98; 291; 3013; 3108; 4300; 4850; 5405
CjeI	!NNNNNNNNCCANNNNNNGT	4	3278; 4718; 4818; 4896
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNNNN!	2	4752; 4930
CjePI	!NNNNNNNNGANNNNNNNTGG	4	257; 873; 4266; 4865
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNNNN!	4	290; 906; 4299; 4898
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	4719; 4897
Clal	AT!CGAT	1	3335
CpoI	CG!GWCCG	2	639; 4011
CseI	GACGCNNNNN!	3	526; 4205; 4284
CseI	!NNNNNNNNNNNGCGTC	3	2828; 4723; 5301
CsiI	A!CCWGGT	1	3084
CspI	CG!GWCCG	2	639; 4011
Csp6I	G!TAC	11	218; 243; 298; 331; 382; 539; 677; 909; 1268; 1724; 3800
Csp45I	TT!CGAA	1	4177
CspAI	A!CCGGT	1	1734
CspCI	CAANNNNNNGTGGNNNNNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNNNN!	3	1714; 2775; 4384
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	23	301; 361; 602; 741; 1016; 1211; 1256; 1529; 1559; 1808; 2922; 3062; 3134; 3225; 3366; 3711; 3897; 3928; 3954; 4310; 4694; 5414; 5465

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviJI	RG!CY	107	42; 84; 93; 277; 566; 616; 725; 857; 870; 918; 991; 1020; 1047; 1091; 1132; 1165; 1265; 1316; 1349; 1369; 1421; 1433; 1454; 1469; 1492; 1498; 1570; 1670; 1684; 1718; 1752; 1789; 1851; 1904; 1927; 1945; 1960; 1973; 1983; 2005; 2055; 2164; 2274; 2441; 2461; 2603; 2684; 2698; 2712; 2993; 3034; 3106; 3229; 3258; 3264; 3273; 3281; 3304; 3316; 3322; 3403; 3420; 3428; 3455; 3480; 3564; 3573; 3577; 3601; 3639; 3715; 3732; 3751; 3814; 3858; 3868; 3885; 3968; 3995; 3999; 4036; 4059; 4075; 4255; 4282; 4343; 4465; 4504; 4561; 4568; 4575; 4594; 4605; 4856; 4885; 4928; 4939; 5004; 5083; 5108; 5113; 5159; 5249; 5347; 5373; 5391; 5402
CviKI-1	RG!CY	107	42; 84; 93; 277; 566; 616; 725; 857; 870; 918; 991; 1020; 1047; 1091; 1132; 1165; 1265; 1316; 1349; 1369; 1421; 1433; 1454; 1469; 1492; 1498; 1570; 1670; 1684; 1718; 1752; 1789; 1851; 1904; 1927; 1945; 1960; 1973; 1983; 2005; 2055; 2164; 2274; 2441; 2461; 2603; 2684; 2698; 2712; 2993; 3034; 3106; 3229; 3258; 3264; 3273; 3281; 3304; 3316; 3322; 3403; 3420; 3428; 3455; 3480; 3564; 3573; 3577; 3601; 3639; 3715; 3732; 3751; 3814; 3858; 3868; 3885; 3968; 3995; 3999; 4036; 4059; 4075; 4255; 4282; 4343; 4465; 4504; 4561; 4568; 4575; 4594; 4605; 4856; 4885; 4928; 4939; 5004; 5083; 5108; 5113; 5159; 5249; 5347; 5373; 5391; 5402
CviQI	G!TAC	11	218; 243; 298; 331; 382; 539; 677; 909; 1268; 1724; 3800
DdeI	C!TNAG	9	1161; 1179; 2043; 2975; 3277; 4158; 4607; 4730; 5139
DinI	GGC!GCC	1	3496
DpnI	GA!TC	33	587; 801; 883; 922; 973; 1059; 1207; 1245; 1437; 1830; 2048; 2059; 2083; 2107; 2132; 2141; 2154; 3334; 3338; 3357; 3668; 3746; 3827; 3836; 3914; 4290; 4306; 4665; 4677; 4755; 4763; 4774; 4849
DpnII	!GATC	33	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2046; 2057; 2081; 2105; 2130; 2139; 2152; 3332; 3336; 3355; 3666; 3744; 3825; 3834; 3912; 4288; 4304; 4663; 4675; 4753; 4761; 4772; 4847
DraI	TTT!AAA	3	2197; 4639; 4658
DraII	RG!GNCCY	1	4593
DraIII	CACNNN!GTG	1	2611
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	3	266; 1624; 4975
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	2566; 3522; 5311
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2566; 3522; 5311
EaeI	Y!GGCCR	8	916; 1018; 1367; 2003; 3401; 3575; 3966; 3993
EagI	C!GGCCG	1	3401
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	6	2064; 2088; 2112; 2962; 3839; 4049
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	6	2064; 2088; 2112; 2962; 3839; 4049
EciI	GGCGANNNNNNNNNNNN!	5	1773; 2995; 4024; 5211; 5357
EciI	!NNNNNNNNNTCCGCC	7	496; 974; 1050; 1544; 3166; 3187; 3208
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	1	3401
Eco24I	GRGCY!C	3	2686; 3860; 4570
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	4484
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	5	639; 672; 1214; 4011; 4456
Eco47III	AGC!GCT	1	1846
Eco52I	C!GGCCG	1	3401
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	5	1449; 1521; 1692; 3641; 4073
Eco57I	!NNNNNNNNNNNNNNNCTTCAG	1	4871
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	2	2975; 4607
Eco88I	C!YCGRG	1	2050
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco130I	C!CWGG	6	360; 601; 3224; 3317; 3927; 4332
Eco147I	AGG!CCT	1	3316
EcoHI	!CCSGG	7	1239; 1323; 1752; 3497; 3657; 4270; 5034
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	8	1242; 1449; 1521; 1692; 1740; 3641; 4073; 4335
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	2	4278; 4871
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	4593
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	19	88; 281; 1339; 1464; 1576; 1651; 1705; 1789; 1927; 1940; 3029; 3084; 3101; 3880; 4459; 4562; 5252; 5265; 5386
EcoRV	GAT!ATC	0	
EcoT14I	C!CWGG	6	360; 601; 3224; 3317; 3927; 4332
EcoT22I	ATGCA!T	3	3067; 3139; 5470
EcoT38I	GRGCY!C	3	2686; 3860; 4570
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	1	3496
EheI	GGC!GCC	1	3496
ErhI	C!CWGG	6	360; 601; 3224; 3317; 3927; 4332
EsaBC3I	TC!GA	18	791; 1073; 1346; 1640; 1667; 2012; 2052; 2645; 3336; 3609; 3765; 3789; 3825; 3987; 4178; 4223; 4478; 5316
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	1	621
FaeI	CATG!	23	304; 364; 605; 744; 1019; 1214; 1259; 1532; 1562; 1811; 2925; 3065; 3137; 3228; 3369; 3714; 3900; 3931; 3957; 4313; 4697; 5417; 5468
Fail	YA!TR	64	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 603; 691; 702; 742; 877; 1012; 1017; 1212; 1257; 1530; 1560; 1809; 1966; 2157; 2167; 2233; 2278; 2483; 2911; 2923; 3054; 3063; 3126; 3135; 3159; 3226; 3250; 3367; 3431; 3712; 3737; 3898; 3929; 3955; 4027; 4243; 4311; 4389; 4441; 4602; 4619; 4621; 4623; 4695; 4973; 5162; 5278; 5351; 5415; 5466
FaII	AAGNNNNNCTTNNNNNNNNNNNN!	2	1067; 3835
FaII	!NNNNNNNNNAAGNNNNNCTT	2	1035; 3803
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3646; 4178; 4287
FaqI	!NNNNNNNNNNNNNGTCCC	4	3011; 3083; 3147; 4442
FatI	!CATG	23	300; 360; 601; 740; 1015; 1210; 1255; 1528; 1558; 1807; 2921; 3061; 3133; 3224; 3365; 3710; 3896; 3927; 3953; 4309; 4693; 5413; 5464
FauI	CCCGCNNNN!	10	93; 119; 286; 1521; 1629; 2817; 3172; 3193; 4389; 4521
FauI	!NNNNNGCGGG	6	1818; 2748; 3618; 4155; 4293; 4440
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2152
FbII	GT!MKAC	0	
FmuI	GGNC!C	13	86; 279; 642; 675; 1134; 1217; 1471; 2605; 4014; 4459; 4505; 4563; 4596
Fnu4HI	GC!NGC	45	645; 705; 782; 1082; 1089; 1140; 1143; 1237; 1301; 1455; 1536; 1816; 1857; 1916; 1953; 1958; 1961; 1971; 2272; 2791; 2813; 2827; 3265; 3404; 3456; 3467; 3557; 3562; 3599; 3640; 3727; 3733; 3969; 4065; 4106; 4120; 4234; 4573; 4588; 4799; 5005; 5008; 5073; 5216; 5371
FokI	GGATGNNNNNNNNNN!	7	1290; 1773; 2013; 3362; 3819; 3844; 4298
FokI	!NNNNNNNNNNNNNCATCC	4	1323; 1689; 1971; 3168
FriOI	GRGCY!C	3	2686; 3860; 4570
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	3	1803; 1956; 3597
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 2143; 2344; 2762; 3318; 4333; 4667; 4920

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	184	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 611; 630; 650; 676; 693; 711; 728; 767; 816; 856; 871; 900; 925; 998; 1034; 1061; 1077; 1109; 1130; 1146; 1160; 1182; 1203; 1230; 1247; 1310; 1337; 1353; 1383; 1400; 1421; 1439; 1457; 1471; 1487; 1512; 1526; 1568; 1590; 1634; 1664; 1719; 1748; 1766; 1791; 1855; 1870; 1906; 1924; 1941; 1963; 1997; 2019; 2051; 2074; 2098; 2122; 2147; 2178; 2217; 2231; 2372; 2467; 2491; 2514; 2537; 2555; 2577; 2598; 2617; 2636; 2665; 2686; 2700; 2726; 2814; 2840; 2889; 2930; 2948; 2987; 3003; 3041; 3098; 3113; 3170; 3190; 3204; 3221; 3235; 3272; 3287; 3330; 3413; 3480; 3511; 3531; 3546; 3591; 3605; 3671; 3685; 3704; 3720; 3761; 3781; 3828; 3878; 3894; 3914; 3939; 3959; 3982; 4009; 4027; 4053; 4093; 4119; 4143; 4199; 4213; 4241; 4284; 4305; 4340; 4384; 4472; 4496; 4518; 4538; 4554; 4575; 4589; 4608; 4692; 4712; 4740; 4755; 4789; 4831; 4858; 4873; 4918; 4942; 4956; 4978; 5004; 5024; 5048; 5074; 5122; 5141; 5160; 5186; 5221; 5266; 5296; 5310; 5361; 5375; 5400; 5416; 5437; 5466
FspEI	!NNNNNNNNNNNNNNNGG	151	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 588; 606; 637; 655; 711; 750; 795; 852; 875; 900; 933; 960; 1002; 1021; 1059; 1108; 1197; 1225; 1260; 1282; 1309; 1335; 1372; 1399; 1432; 1451; 1474; 1552; 1584; 1614; 1638; 1659; 1677; 1704; 1738; 1776; 1794; 1833; 1861; 1890; 1909; 1927; 1959; 1983; 2013; 2061; 2085; 2109; 2166; 2266; 2335; 2365; 2443; 2492; 2514; 2542; 2578; 2623; 2652; 2688; 2707; 2735; 2755; 2818; 2841; 2949; 2981; 2999; 3028; 3071; 3100; 3211; 3240; 3283; 3304; 3332; 3365; 3385; 3410; 3437; 3462; 3484; 3512; 3538; 3559; 3610; 3631; 3649; 3697; 3733; 3789; 3814; 3838; 3867; 3890; 3914; 3940; 3962; 3981; 4006; 4046; 4082; 4147; 4232; 4256; 4285; 4319; 4340; 4360; 4405; 4432; 4451; 4484; 4536; 4567; 4594; 4646; 4744; 4815; 4860; 4921; 4986; 5020; 5046; 5064; 5100; 5170; 5193; 5215; 5239; 5272; 5320; 5355; 5373; 5430
Fsp4HI	GC!NGC	45	645; 705; 782; 1082; 1089; 1140; 1143; 1237; 1301; 1455; 1536; 1816; 1857; 1916; 1953; 1958; 1961; 1971; 2272; 2791; 2813; 2827; 3265; 3404; 3456; 3467; 3557; 3562; 3599; 3640; 3727; 3733; 3969; 4065; 4106; 4120; 4234; 4573; 4588; 4799; 5005; 5008; 5073; 5216; 5371
GdiII	C!GGCCR	2	1367; 3401
GdiII	Y!GGCCG	5	916; 1018; 3401; 3966; 3993
GlaI	GC!GC	33	596; 769; 808; 969; 1203; 1584; 1625; 1781; 1803; 1846; 1866; 1956; 1991; 2760; 2768; 2794; 2816; 2825; 2838; 2869; 3488; 3496; 3560; 3597; 3863; 4123; 4299; 4385; 4788; 4897; 5071; 5171; 5238
GluI	GC!NGC	45	645; 705; 782; 1082; 1089; 1140; 1143; 1237; 1301; 1455; 1536; 1816; 1857; 1916; 1953; 1958; 1961; 1971; 2272; 2791; 2813; 2827; 3265; 3404; 3456; 3467; 3557; 3562; 3599; 3640; 3727; 3733; 3969; 4065; 4106; 4120; 4234; 4573; 4588; 4799; 5005; 5008; 5073; 5216; 5371
GsaI	CCCAG!C	3	3042; 3114; 5113
GsaI	GCTGG!G	1	4003
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	1242; 1740; 4335
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	4278
HaeI	WGG!CCW	9	1047; 1927; 1983; 2005; 3316; 3577; 4939; 5391; 5402
HaeII	RGCGC!Y	6	598; 1848; 2762; 2770; 3498; 5173
HaeIII	GG!CC	29	84; 277; 918; 1020; 1047; 1132; 1369; 1469; 1498; 1927; 1983; 2005; 2461; 2603; 3258; 3264; 3273; 3316; 3403; 3577; 3968; 3995; 4504; 4561; 4594; 4939; 5373; 5391; 5402
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	3	938; 2170; 3691
HaeIV	!NNNNNNNNNGAYNNNNNRTC	3	904; 2136; 3657
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	3	937; 2169; 3690
HaeIV	!NNNNNNNGAYNNNNNRTC	3	906; 2138; 3659
HapII	C!CGG	29	637; 988; 1240; 1297; 1324; 1387; 1447; 1735; 1753; 1860; 1905; 2038; 2137; 2713; 3400; 3477; 3499; 3527; 3658; 3748; 3815; 3996; 4271; 4279; 4371; 4845; 5035; 5061; 5208
HgaI	GACGCNNNNN!	3	526; 4205; 4284
HgaI	!NNNNNNNNNNNGCGTC	3	2828; 4723; 5301
HhaI	GCG!C	33	597; 770; 809; 970; 1204; 1585; 1626; 1782; 1804; 1847; 1867; 1957; 1992; 2761; 2769; 2795; 2817; 2826; 2839; 2870; 3489; 3497; 3561; 3598; 3864; 4124; 4300; 4386; 4789; 4898; 5072; 5172; 5239

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hin1I	GR!CGYC	7	122; 175; 258; 444; 3495; 4197; 4276
Hin1III	CATG!	23	304; 364; 605; 744; 1019; 1214; 1259; 1532; 1562; 1811; 2925; 3065; 3137; 3228; 3369; 3714; 3900; 3931; 3957; 4313; 4697; 5417; 5468
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	937; 2169; 3690
Hin4I	!NNNNNNNGABNNNNNRTC	5	618; 905; 2137; 3658; 3688
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	5	650; 937; 2169; 3690; 3720
Hin4I	!NNNNNNNGAYNNNNNVTC	3	905; 2137; 3658
Hin6I	G!CGC	33	595; 768; 807; 968; 1202; 1583; 1624; 1780; 1802; 1845; 1865; 1955; 1990; 2759; 2767; 2793; 2815; 2824; 2837; 2868; 3487; 3495; 3559; 3596; 3862; 4122; 4298; 4384; 4787; 4896; 5070; 5170; 5237
HinP1I	G!CGC	33	595; 768; 807; 968; 1202; 1583; 1624; 1780; 1802; 1845; 1865; 1955; 1990; 2759; 2767; 2793; 2815; 2824; 2837; 2868; 3487; 3495; 3559; 3596; 3862; 4122; 4298; 4384; 4787; 4896; 5070; 5170; 5237
HincII	GTY!RAC	1	2258
HindII	GTY!RAC	1	2258
HindIII	A!AGCTT	0	
HinfI	G!ANTC	13	410; 659; 2041; 2538; 2560; 2970; 3980; 4114; 4166; 4224; 4261; 5043; 5439
HpaI	GTT!AAC	1	2258
HpaII	C!CGG	29	637; 988; 1240; 1297; 1324; 1387; 1447; 1735; 1753; 1860; 1905; 2038; 2137; 2713; 3400; 3477; 3499; 3527; 3658; 3748; 3815; 3996; 4271; 4279; 4371; 4845; 5035; 5061; 5208
HphI	GGTGANNNNNNNN!	6	376; 824; 1643; 1667; 4566; 4682
HphI	!NNNNNNNTCACC	5	876; 1313; 1939; 2612; 3673
Hpy8I	GTN!NAC	11	201; 539; 577; 1321; 1364; 1658; 2258; 2542; 2559; 2614; 5101
Hpy99I	CGWCG!	11	1074; 1131; 1362; 1608; 3585; 3613; 3907; 3922; 4199; 4584; 5317
Hpy166II	GTN!NAC	11	201; 539; 577; 1321; 1364; 1658; 2258; 2542; 2559; 2614; 5101
Hpy188I	TCN!GA	12	585; 2046; 2669; 3278; 3462; 3806; 4159; 4260; 4739; 4873; 5226; 5304
Hpy188III	TC!NNGA	27	637; 1055; 1178; 1229; 1478; 2038; 2050; 2143; 2922; 2974; 3287; 3340; 3513; 3829; 3838; 3921; 3977; 4021; 4111; 4144; 4213; 4694; 4768; 4851; 4949; 5047; 5181
HpyAV	CCTTCNNNNNN!	3	4140; 4247; 4926
HpyAV	!NNNNNGAAGG	9	1560; 1667; 2728; 3623; 4352; 4368; 4551; 4868; 5178
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 668; 676; 963; 2586; 3875; 3991; 4099; 4422; 4913; 5383; 5454
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 1006; 1069; 1273; 1360; 1573; 2555; 2567; 2610; 2720; 3611; 3798; 4579; 4712
HpyCH4V	TG!CA	22	647; 707; 740; 1088; 1441; 1897; 2244; 2271; 2339; 3056; 3065; 3128; 3137; 3252; 3328; 3387; 3546; 3721; 3735; 4805; 5101; 5468
HpyF3I	C!TNAG	9	1161; 1179; 2043; 2975; 3277; 4158; 4607; 4730; 5139
HpyF10VI	GCNNNNN!NNGC	39	90; 212; 244; 283; 376; 400; 622; 863; 924; 984; 997; 1300; 1387; 1447; 1460; 1504; 1786; 1853; 1924; 1989; 2722; 2752; 2779; 2821; 3062; 3134; 3185; 3264; 3486; 3570; 3593; 3732; 3855; 3938; 4205; 4392; 4596; 4795; 5367
Hsp92I	GR!CGYC	7	122; 175; 258; 444; 3495; 4197; 4276
Hsp92II	CATG!	23	304; 364; 605; 744; 1019; 1214; 1259; 1532; 1562; 1811; 2925; 3065; 3137; 3228; 3369; 3714; 3900; 3931; 3957; 4313; 4697; 5417; 5468
HspAI	G!CGC	33	595; 768; 807; 968; 1202; 1583; 1624; 1780; 1802; 1845; 1865; 1955; 1990; 2759; 2767; 2793; 2815; 2824; 2837; 2868; 3487; 3495; 3559; 3596; 3862; 4122; 4298; 4384; 4787; 4896; 5070; 5170; 5237
KasI	G!GCGCC	1	3494
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	2	636; 2037
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	2152
KspAI	GTT!AAC	1	2258

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kzo9I	!GATC	33	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2046; 2057; 2081; 2105; 2130; 2139; 2152; 3332; 3336; 3355; 3666; 3744; 3825; 3834; 3912; 4288; 4304; 4663; 4675; 4753; 4761; 4772; 4847
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3839; 4049
LpnI	RGC!GCGY	6	596; 1846; 2760; 2768; 3496; 5171
LpnPI	CCDGNNNNNNNNN!	77	102; 295; 630; 650; 693; 723; 771; 1001; 1119; 1173; 1191; 1230; 1253; 1310; 1337; 1353; 1400; 1440; 1460; 1478; 1512; 1590; 1665; 1719; 1748; 1766; 1799; 1855; 1873; 1918; 1941; 2051; 2150; 2232; 2537; 2726; 2949; 2987; 3003; 3043; 3098; 3115; 3215; 3300; 3413; 3490; 3512; 3535; 3671; 3685; 3704; 3761; 3828; 3878; 3894; 3951; 4009; 4218; 4284; 4308; 4384; 4473; 4576; 4609; 4840; 4858; 5004; 5024; 5048; 5074; 5123; 5221; 5266; 5296; 5375; 5400; 5437
LpnPI	!NNNNNNNNNNNNNCHGG	73	75; 268; 552; 606; 711; 750; 795; 852; 909; 933; 960; 1206; 1225; 1282; 1309; 1335; 1372; 1432; 1451; 1563; 1638; 1692; 1720; 1738; 1776; 1804; 1833; 1890; 1914; 1959; 2013; 2122; 2578; 2698; 2755; 2818; 3016; 3028; 3088; 3100; 3332; 3377; 3420; 3462; 3484; 3512; 3559; 3621; 3643; 3733; 3800; 3823; 3867; 3962; 3981; 4006; 4155; 4256; 4299; 4356; 4446; 4549; 4576; 4594; 4830; 4867; 5020; 5046; 5186; 5204; 5239; 5320; 5373
Lsp1109I	GCAGCNNNNNNN!	11	1093; 1312; 1547; 1969; 1982; 2283; 3568; 3610; 4131; 4584; 5084
Lsp1109I	!NNNNNNNNNNNGCTGC	11	631; 691; 1126; 1441; 1939; 2777; 3442; 3626; 3719; 4785; 4991
LweI	GCATCNNNNN!	9	1048; 1672; 1687; 2311; 3074; 3146; 3794; 3858; 4133
LweI	!NNNNNNNNNGATGC	7	357; 934; 1394; 3453; 3708; 3924; 5316
MabI	A!CCWGGT	1	3084
MaeI	C!TAG	8	592; 2143; 2344; 2762; 3318; 4333; 4667; 4920
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 1006; 1069; 1273; 1360; 1573; 2555; 2567; 2610; 2720; 3611; 3798; 4579; 4712
MaeIII	!GTNAC	16	61; 148; 497; 760; 957; 1229; 1478; 2283; 2784; 2796; 3615; 3921; 4611; 4877; 4993; 5056
MalI	GA!TC	33	587; 801; 883; 922; 973; 1059; 1207; 1245; 1437; 1830; 2048; 2059; 2083; 2107; 2132; 2141; 2154; 3334; 3338; 3357; 3668; 3746; 3827; 3836; 3914; 4290; 4306; 4665; 4677; 4755; 4763; 4774; 4849
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2919; 4108
MbiI	GAG!CGG	2	2755; 4162
MboI	!GATC	33	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2046; 2057; 2081; 2105; 2130; 2139; 2152; 3332; 3336; 3355; 3666; 3744; 3825; 3834; 3912; 4288; 4304; 4663; 4675; 4753; 4761; 4772; 4847
MboII	GAAGANNNNNNNN!	12	891; 963; 1043; 1776; 2081; 2105; 2129; 2751; 2979; 3856; 4066; 4685
MboII	!NNNNNNNTCTTC	6	1538; 1583; 4146; 4313; 4513; 4756
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2245
MflI	R!GATCY	14	585; 1057; 2046; 2081; 2105; 2130; 2139; 3666; 3912; 4304; 4663; 4675; 4761; 4772
MhlI	GDGCH!C	11	1336; 1465; 1714; 2686; 3441; 3534; 3608; 3798; 3860; 4570; 5103
MlsI	TGG!CCA	2	2005; 3577
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	2005; 3577
MlyI	GAGTCNNNNN!	2	2547; 2979
MlyI	!NNNNNGACTC	5	404; 2035; 2554; 4160; 5037
Mly113I	GG!CGCC	1	3495
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	1	2588
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	3	650; 5020; 5204
MnlI	CCTCNNNNNNN!	10	813; 1485; 1497; 2214; 3278; 4096; 4302; 4616; 4986; 5310
MnlI	!NNNNNGAGG	20	541; 1067; 1304; 1385; 1622; 1634; 1685; 1973; 2174; 2639; 2970; 3248; 3291; 3306; 3346; 3410; 3546; 3903; 4333; 5236
Mph1103I	ATGCA!T	3	3067; 3139; 5470

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	2	636; 2037
MroNI	G!CCGGC	4	987; 2712; 3995; 4278
MroXI	GAANN!NNTTC	1	1506
MscI	TGG!CCA	2	2005; 3577
MseI	T!TAA	16	7; 1900; 2196; 2257; 2378; 2399; 2410; 2422; 2433; 2450; 2548; 2819; 4638; 4652; 4657; 4709
MslI	CAYNN!NNRTG	7	365; 606; 837; 1326; 1476; 1653; 3932
MspI	C!CGG	29	637; 988; 1240; 1297; 1324; 1387; 1447; 1735; 1753; 1860; 1905; 2038; 2137; 2713; 3400; 3477; 3499; 3527; 3658; 3748; 3815; 3996; 4271; 4279; 4371; 4845; 5035; 5061; 5208
Msp20I	TGG!CCA	2	2005; 3577
MspAII	CMG!CKG	8	644; 781; 1952; 1973; 2993; 3601; 4830; 5075
MspCI	C!TTAAG	1	2377
MspJI	CNNRNNNNNNNN!	280	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; 614; 629; 649; 675; 688; 702; 722; 738; 753; 766; 781; 797; 816; 836; 870; 899; 912; 931; 954; 981; 1000; 1028; 1041; 1055; 1077; 1097; 1118; 1131; 1146; 1159; 1172; 1190; 1203; 1221; 1241; 1263; 1286; 1309; 1322; 1336; 1352; 1373; 1394; 1409; 1423; 1439; 1459; 1472; 1488; 1511; 1525; 1539; 1562; 1575; 1589; 1610; 1628; 1652; 1665; 1679; 1700; 1718; 1731; 1747; 1765; 1783; 1798; 1815; 1831; 1854; 1872; 1906; 1924; 1940; 1953; 1968; 1986; 2001; 2036; 2050; 2064; 2073; 2097; 2121; 2149; 2163; 2178; 2202; 2219; 2232; 2273; 2287; 2300; 2318; 2356; 2371; 2389; 2430; 2454; 2474; 2492; 2513; 2536; 2568; 2583; 2605; 2623; 2636; 2657; 2674; 2687; 2700; 2716; 2729; 2759; 2774; 2799; 2817; 2830; 2845; 2869; 2883; 2907; 2932; 2948; 2986; 3002; 3041; 3055; 3069; 3097; 3113; 3127; 3141; 3170; 3183; 3204; 3213; 3235; 3265; 3281; 3299; 3329; 3352; 3376; 3400; 3419; 3447; 3473; 3489; 3502; 3525; 3539; 3559; 3572; 3586; 3605; 3619; 3632; 3648; 3663; 3676; 3692; 3707; 3723; 3748; 3767; 3783; 3796; 3809; 3827; 3841; 3855; 3871; 3893; 3909; 3928; 3950; 3966; 3989; 4008; 4022; 4038; 4052; 4072; 4088; 4101; 4123; 4156; 4170; 4190; 4203; 4217; 4271; 4284; 4307; 4320; 4339; 4356; 4383; 4419; 4452; 4471; 4496; 4517; 4544; 4557; 4574; 4588; 4603; 4619; 4679; 4704; 4720; 4742; 4755; 4769; 4800; 4814; 4839; 4857; 4872; 4885; 4904; 4917; 4932; 4961; 4980; 4998; 5023; 5038; 5057; 5073; 5092; 5110; 5126; 5140; 5159; 5186; 5209; 5231; 5250; 5265; 5278; 5295; 5315; 5342; 5355; 5374; 5399; 5422; 5436; 5449; 5466
MspJI	!NNNNNNNNNNNNYNG	231	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 599; 622; 642; 666; 687; 712; 744; 775; 792; 835; 853; 873; 892; 909; 934; 951; 970; 1002; 1029; 1046; 1071; 1092; 1109; 1132; 1155; 1182; 1203; 1226; 1248; 1283; 1310; 1327; 1359; 1377; 1399; 1424; 1444; 1462; 1480; 1499; 1525; 1545; 1563; 1584; 1602; 1624; 1653; 1674; 1692; 1721; 1739; 1763; 1785; 1805; 1828; 1846; 1863; 1880; 1898; 1915; 1940; 1960; 1979; 1996; 2014; 2036; 2114; 2147; 2176; 2205; 2247; 2330; 2365; 2392; 2415; 2444; 2488; 2510; 2542; 2578; 2595; 2616; 2653; 2673; 2690; 2707; 2742; 2760; 2778; 2795; 2819; 2841; 2868; 2896; 2922; 2960; 2981; 2998; 3016; 3039; 3060; 3088; 3111; 3132; 3150; 3171; 3188; 3211; 3235; 3255; 3273; 3295; 3326; 3348; 3374; 3393; 3410; 3438; 3457; 3476; 3494; 3512; 3533; 3555; 3579; 3612; 3632; 3650; 3671; 3697; 3724; 3741; 3758; 3775; 3801; 3823; 3845; 3863; 3883; 3902; 3924; 3962; 3982; 4006; 4026; 4046; 4073; 4097; 4130; 4149; 4177; 4199; 4228; 4256; 4281; 4300; 4319; 4340; 4357; 4374; 4405; 4432; 4452; 4475; 4495; 4532; 4549; 4568; 4594; 4614; 4653; 4680; 4699; 4717; 4754; 4772; 4813; 4831; 4857; 4874; 4906; 4935; 4963; 4984; 5007; 5026; 5047; 5065; 5082; 5100; 5126; 5147; 5167; 5187; 5205; 5226; 5252; 5269; 5288; 5307; 5336; 5355; 5373; 5392; 5410; 5428; 5451
MspR9I	CC!NGG	26	90; 283; 1241; 1325; 1341; 1466; 1578; 1653; 1707; 1754; 1791; 1929; 1942; 3031; 3086; 3103; 3499; 3659; 3882; 4272; 4461; 4564; 5036; 5254; 5267; 5388
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2245

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MvaI	CC!WGG	19	90; 283; 1341; 1466; 1578; 1653; 1707; 1791; 1929; 1942; 3031; 3086; 3103; 3882; 4461; 4564; 5254; 5267; 5388
Mva1269I	GAATGCN!	2	909; 2246
Mva1269I	G!CATTC	2	828; 2339
MvnI	CG!CG	23	60; 807; 901; 970; 1204; 1624; 1780; 1782; 1873; 1990; 2419; 2795; 2815; 2839; 2870; 3561; 3862; 4300; 4384; 4447; 4516; 4789; 5370
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	39	90; 212; 244; 283; 376; 400; 622; 863; 924; 984; 997; 1300; 1387; 1447; 1460; 1504; 1786; 1853; 1924; 1989; 2722; 2752; 2779; 2821; 3062; 3134; 3185; 3264; 3486; 3570; 3593; 3732; 3855; 3938; 4205; 4392; 4596; 4795; 5367
NaeI	GCC!GGC	4	989; 2714; 3997; 4280
NarI	GG!CGCC	1	3495
NciI	CC!SGG	7	1241; 1325; 1754; 3499; 3659; 4272; 5036
NcoI	C!CATGG	4	360; 601; 3224; 3927
NdeI	CA!TATG	1	234
NdeII	!GATC	33	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2046; 2057; 2081; 2105; 2130; 2139; 2152; 3332; 3336; 3355; 3666; 3744; 3825; 3834; 3912; 4288; 4304; 4663; 4675; 4753; 4761; 4772; 4847
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	987; 2712; 3995; 4278
NheI	G!CTAGC	1	591
NlaIII	CATG!	23	304; 364; 605; 744; 1019; 1214; 1259; 1532; 1562; 1811; 2925; 3065; 3137; 3228; 3369; 3714; 3900; 3931; 3957; 4313; 4697; 5417; 5468
NlaIV	GGN!NCC	20	467; 1133; 1295; 1333; 1733; 1909; 2132; 2650; 2671; 2683; 2874; 3035; 3107; 3496; 3531; 4379; 4458; 4503; 5346; 5385
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2327; 2642; 4234
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 5306
Nli3877I	CYCGR!G	1	2054
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1652; 3284; 3720
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	3	1231; 1468; 3249
NmeDI	RCCGGYNNNNNNNN!	8	999; 1308; 1458; 1746; 2724; 3826; 4007; 4290
NmeDI	!NNNNNNNNNNNNRCCGGY	8	974; 1283; 1433; 1721; 2699; 3801; 3982; 4265
NmuCI	!GTSAC	6	957; 1229; 1478; 2784; 3615; 3921
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	3	1803; 1956; 3597
NsiI	ATGCA!T	3	3067; 3139; 5470
NspI	RCATG!Y	4	3065; 3137; 3900; 5417
NspV	TT!CGAA	1	4177
OliI	CACNN!NNGTG	3	1326; 1476; 1653
PabI	GTA!C	11	220; 245; 300; 333; 384; 541; 679; 911; 1270; 1726; 3802
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3065; 3137; 3900
PaeR7I	C!TCGAG	1	2050
PagI	T!CATGA	2	2921; 4693
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4460; 4563
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	3316
PciI	A!CATGT	1	5413
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3839; 4049
PcsI	WCGNNNN!NNNCGW	8	1201; 1258; 3789; 3866; 4109; 4183; 4576; 5094
PctI	GAATGCN!	2	909; 2246
PctI	G!CATTC	2	828; 2339
PdiI	GCC!GGC	4	989; 2714; 3997; 4280
PdmI	GAANN!NNTTC	1	1506
PfeI	G!AWTC	6	659; 3980; 4114; 4224; 4261; 5439
Pfl23II	C!GTACG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PfI	GACN!NNGTC	3	632; 1005; 3613
PfI	CCANNNN!NTGG	1	764
PfoI	T!CCNGGA	2	1576; 4270
PhoI	GG!CC	29	84; 277; 918; 1020; 1047; 1132; 1369; 1469; 1498; 1927; 1983; 2005; 2461; 2603; 3258; 3264; 3273; 3316; 3403; 3577; 3968; 3995; 4504; 4561; 4594; 4939; 5373; 5391; 5402
PinAI	A!CCGGT	1	1734
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	3876
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	922; 3441; 3696
PleI	GAGTCNNNN!	2	2546; 2978
PleI	!NNNNNGACTC	5	404; 2035; 2554; 4160; 5037
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	2577
PpiI	!NNNNNNNNGAGNNNNNGTTC	3	1302; 1620; 4707
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	3	1334; 1652; 4739
PpiI	!NNNNNNNNGAACNNNNNNCTC	1	2545
PpsI	GAGTCNNNN!	2	2546; 2978
PpsI	!NNNNNGACTC	5	404; 2035; 2554; 4160; 5037
Ppu10I	A!TGCAT	3	3063; 3135; 5466
Ppu21I	YAC!GTR	3	340; 2611; 3799
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	5413
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2278; 2483
Psp03I	GGWC!C	5	642; 675; 1217; 4014; 4459
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	19	88; 281; 1339; 1464; 1576; 1651; 1705; 1789; 1927; 1940; 3029; 3084; 3101; 3880; 4459; 4562; 5252; 5265; 5386
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	19	88; 281; 1339; 1464; 1576; 1651; 1705; 1789; 1927; 1940; 3029; 3084; 3101; 3880; 4459; 4562; 5252; 5265; 5386
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	20	467; 1133; 1295; 1333; 1733; 1909; 2132; 2650; 2671; 2683; 2874; 3035; 3107; 3496; 3531; 4379; 4458; 4503; 5346; 5385
PspOMI	G!GGCCC	0	
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNN!	3	125; 3225; 4224
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3627
PspPI	G!GNCC	13	83; 276; 639; 672; 1131; 1214; 1468; 2602; 4011; 4456; 4502; 4560; 4593
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	3048; 3120; 4626
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	3	1693; 2961; 4156
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	4596
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	3	764; 4596; 5004
PsuI	R!GATCY	14	585; 1057; 2046; 2081; 2105; 2130; 2139; 3666; 3912; 4304; 4663; 4675; 4761; 4772
PsyI	GACN!NNGTC	3	632; 1005; 3613
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1973; 2993; 3601
RcaI	T!CATGA	2	2921; 4693
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4010
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RgaI	GCGAT!CGC	0	
RgiI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	2	680; 2224
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	1	1099
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	11	219; 244; 299; 332; 383; 540; 678; 910; 1269; 1725; 3801
RsaNI	G!TAC	11	218; 243; 298; 331; 382; 539; 677; 909; 1268; 1724; 3800
RseI	CAYNN!NNRTG	7	365; 606; 837; 1326; 1476; 1653; 3932
RsrII	CG!GWCCG	2	639; 4011
Rsr2I	CG!GWCCG	2	639; 4011
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SaI	G!TCGAC	0	
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	3839; 4049
SaqAI	T!TAA	16	7; 1900; 2196; 2257; 2378; 2399; 2410; 2422; 2433; 2450; 2548; 2819; 4638; 4652; 4657; 4709
SatI	GC!NGC	45	645; 705; 782; 1082; 1089; 1140; 1143; 1237; 1301; 1455; 1536; 1816; 1857; 1916; 1953; 1958; 1961; 1971; 2272; 2791; 2813; 2827; 3265; 3404; 3456; 3467; 3557; 3562; 3599; 3640; 3727; 3733; 3969; 4065; 4106; 4120; 4234; 4573; 4588; 4799; 5005; 5008; 5073; 5216; 5371
Sau96I	G!GNCC	13	83; 276; 639; 672; 1131; 1214; 1468; 2602; 4011; 4456; 4502; 4560; 4593
Sau3AI	!GATC	33	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2046; 2057; 2081; 2105; 2130; 2139; 2152; 3332; 3336; 3355; 3666; 3744; 3825; 3834; 3912; 4288; 4304; 4663; 4675; 4753; 4761; 4772; 4847
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	2547; 2979
SchI	!NNNNNGACTC	5	404; 2035; 2554; 4160; 5037
SciI	CTC!GAG	1	2052
ScrFI	CC!NGG	26	90; 283; 1241; 1325; 1341; 1466; 1578; 1653; 1707; 1754; 1791; 1929; 1942; 3031; 3086; 3103; 3499; 3659; 3882; 4272; 4461; 4564; 5036; 5254; 5267; 5388
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	6	1055; 1604; 3073; 3145; 3314; 5256
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	3650; 4135
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	11	1336; 1465; 1714; 2686; 3441; 3534; 3608; 3798; 3860; 4570; 5103
SelI	!CGCG	23	58; 805; 899; 968; 1202; 1622; 1778; 1780; 1871; 1988; 2417; 2793; 2813; 2837; 2868; 3559; 3860; 4298; 4382; 4445; 4514; 4787; 5368
SetI	ASST!	76	125; 137; 178; 261; 308; 342; 447; 552; 568; 682; 717; 727; 1009; 1072; 1093; 1162; 1167; 1267; 1276; 1318; 1351; 1363; 1413; 1423; 1435; 1456; 1576; 1633; 1672; 1720; 1823; 1975; 2057; 2080; 2104; 2128; 2185; 2206; 2215; 2227; 2276; 2443; 2558; 2570; 2613; 2650; 2700; 2723; 2847; 2995; 3090; 3283; 3396; 3524; 3603; 3614; 3686; 3757; 3801; 4061; 4207; 4251; 4582; 4613; 4672; 4715; 4858; 4879; 4978; 5115; 5130; 5149; 5161; 5205; 5251; 5302
SexAI	A!CCWGGT	1	3084
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	9	1048; 1672; 1687; 2311; 3074; 3146; 3794; 3858; 4133
SfaNI	!NNNNNNNNNGATGC	7	357; 934; 1394; 3453; 3708; 3924; 5316
SfcI	C!TRYAG	3	2830; 4957; 5148
SfiI	GGCCNNNN!NGGCC	1	3270
SfoI	GGC!GCC	1	3496

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sfr274I	C!TCGAG	1	2050
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	1	4177
SgeI	CNNGNNNNNNNN!	221	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 638; 692; 722; 738; 753; 770; 786; 801; 816; 879; 899; 912; 936; 960; 981; 1000; 1028; 1055; 1085; 1104; 1118; 1146; 1172; 1190; 1208; 1223; 1241; 1263; 1286; 1309; 1322; 1336; 1352; 1385; 1399; 1430; 1459; 1472; 1488; 1511; 1525; 1541; 1562; 1575; 1589; 1610; 1628; 1652; 1665; 1679; 1700; 1718; 1731; 1747; 1765; 1791; 1820; 1838; 1854; 1872; 1906; 1924; 1940; 1953; 1986; 2001; 2040; 2062; 2149; 2202; 2231; 2273; 2356; 2430; 2514; 2536; 2568; 2605; 2623; 2642; 2657; 2699; 2716; 2733; 2768; 2782; 2799; 2821; 2845; 2869; 2934; 2948; 2986; 3002; 3042; 3055; 3074; 3097; 3114; 3127; 3146; 3176; 3197; 3214; 3237; 3272; 3299; 3330; 3352; 3378; 3400; 3419; 3447; 3483; 3502; 3525; 3539; 3559; 3572; 3586; 3605; 3619; 3638; 3670; 3684; 3697; 3723; 3754; 3767; 3784; 3801; 3815; 3832; 3850; 3865; 3893; 3909; 3928; 3950; 3966; 3989; 4008; 4033; 4052; 4072; 4099; 4123; 4156; 4175; 4203; 4217; 4283; 4307; 4322; 4345; 4366; 4383; 4431; 4458; 4472; 4501; 4525; 4558; 4575; 4595; 4608; 4621; 4679; 4706; 4725; 4755; 4780; 4800; 4814; 4839; 4857; 4894; 4932; 4961; 4989; 5003; 5023; 5038; 5059; 5073; 5092; 5110; 5126; 5166; 5186; 5213; 5231; 5252; 5265; 5278; 5295; 5319; 5342; 5374; 5399; 5426; 5448
SgeI	!NNNNNNNNNNNNCNG	192	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 623; 666; 696; 727; 744; 775; 792; 853; 873; 910; 934; 955; 974; 1002; 1029; 1059; 1078; 1120; 1146; 1164; 1182; 1203; 1226; 1248; 1283; 1310; 1327; 1359; 1377; 1404; 1433; 1451; 1474; 1499; 1525; 1545; 1563; 1584; 1602; 1626; 1653; 1674; 1692; 1721; 1739; 1765; 1794; 1812; 1834; 1858; 1880; 1898; 1915; 1960; 1979; 2014; 2036; 2123; 2176; 2205; 2247; 2330; 2404; 2488; 2510; 2542; 2579; 2597; 2616; 2673; 2690; 2707; 2742; 2760; 2780; 2800; 2819; 2843; 2908; 2960; 3016; 3048; 3071; 3088; 3120; 3150; 3171; 3188; 3211; 3246; 3273; 3304; 3326; 3352; 3374; 3393; 3421; 3457; 3476; 3499; 3520; 3538; 3555; 3579; 3612; 3644; 3671; 3697; 3728; 3758; 3775; 3801; 3824; 3845; 3867; 3887; 3907; 3924; 3963; 3982; 4007; 4026; 4046; 4073; 4097; 4130; 4149; 4177; 4199; 4257; 4281; 4300; 4319; 4340; 4357; 4405; 4432; 4452; 4475; 4499; 4532; 4549; 4569; 4595; 4653; 4680; 4699; 4729; 4754; 4774; 4813; 4831; 4868; 4906; 4935; 4963; 4984; 5012; 5033; 5066; 5084; 5140; 5160; 5187; 5205; 5226; 5252; 5269; 5293; 5316; 5348; 5373; 5400; 5422; 5451
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2642; 4429; 5222
SimI	!GACCC	8	106; 751; 1187; 1423; 1618; 3923; 4491; 4739
SinI	G!GWCC	5	639; 672; 1214; 4011; 4456
SlaI	C!TCGAG	1	2050
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	7	365; 606; 837; 1326; 1476; 1653; 3932
SmlI	C!TYRAG	6	2050; 2377; 3886; 4768; 5045; 5307
SmoI	C!TYRAG	6	2050; 2377; 3886; 4768; 5045; 5307
SmuI	CCCGCNNNN!	10	93; 119; 286; 1521; 1629; 2817; 3172; 3193; 4389; 4521
SmuI	!NNNNNNGCGGG	6	1818; 2748; 3618; 4155; 4293; 4440
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3065; 3137; 3900
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	10	18; 2245; 2309; 2387; 2413; 2424; 3071; 3143; 3235; 4653
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	3316

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	C!CGC	48	58; 86; 98; 112; 279; 507; 589; 642; 687; 899; 985; 1061; 1234; 1237; 1514; 1555; 1622; 1661; 1778; 1857; 1916; 1950; 1961; 1988; 2810; 2813; 2827; 2917; 3165; 3177; 3186; 3198; 3208; 3219; 3265; 3404; 3467; 3969; 4014; 4080; 4106; 4231; 4234; 4382; 4514; 4821; 4965; 5461
SsiI	G!CGG	30	370; 403; 528; 781; 1282; 1288; 1758; 1815; 1825; 2031; 2755; 2782; 2870; 2980; 3561; 3625; 3726; 3729; 4009; 4064; 4162; 4300; 4447; 4587; 4830; 5075; 5196; 5215; 5342; 5370
SspI	AAT!ATT	2	2403; 2956
SspDI	G!GCGCC	1	3494
SspD5I	GGTGANNNNNNNN!	6	376; 824; 1643; 1667; 4566; 4682
SspD5I	!NNNNNNNNNTCACC	5	875; 1312; 1938; 2611; 3672
SstI	GAGCT!C	0	
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	23	92; 118; 285; 894; 1141; 1153; 1465; 1520; 1528; 1570; 1628; 2694; 2816; 3171; 3192; 3505; 3908; 4047; 4118; 4388; 4520; 4750; 5188
Sth132I	!NNNNNNNNCCGGG	22	15; 407; 470; 1232; 1316; 1745; 1817; 2695; 2747; 2848; 3575; 3617; 3650; 4154; 4263; 4292; 4439; 4543; 4574; 5027; 5071; 5279
Sth302II	CC!GG	29	638; 989; 1241; 1298; 1325; 1388; 1448; 1736; 1754; 1861; 1906; 2039; 2138; 2714; 3401; 3478; 3500; 3528; 3659; 3749; 3816; 3997; 4272; 4280; 4372; 4846; 5036; 5062; 5209
StrI	C!TCGAG	1	2050
StsI	GGATGNNNNNNNNNN!	7	1291; 1774; 2014; 3363; 3820; 3845; 4299
StsI	!NNNNNNNNNNNNNNNCATCC	4	1322; 1688; 1970; 3167
StuI	AGG!CCT	1	3316
StyI	C!CWWGG	6	360; 601; 3224; 3317; 3927; 4332
StyD4I	!CCNGG	26	88; 281; 1239; 1323; 1339; 1464; 1576; 1651; 1705; 1752; 1789; 1927; 1940; 3029; 3084; 3101; 3497; 3657; 3880; 4270; 4459; 4562; 5034; 5252; 5265; 5386
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 668; 676; 963; 2586; 3875; 3991; 4099; 4422; 4913; 5383; 5454
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 1009; 1072; 1276; 1363; 1576; 2558; 2570; 2613; 2723; 3614; 3801; 4582; 4715
TaqI	T!CGA	18	790; 1072; 1345; 1639; 1666; 2011; 2051; 2644; 3335; 3608; 3764; 3788; 3824; 3986; 4177; 4222; 4477; 5315
TaqII	GACCGANNNNNNNNNNN!	3	2515; 3532; 4200
TaqII	!NNNNNNNNNTCGGTC	1	4444
TaqII	CACCCANNNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	3	172; 3399; 3991
TasI	!AATT	10	18; 2245; 2309; 2387; 2413; 2424; 3071; 3143; 3235; 4653
TatI	W!GTACW	6	217; 297; 330; 381; 1267; 1723
TauI	GCSG!C	21	784; 1239; 1818; 1859; 1918; 1963; 2815; 2829; 3267; 3406; 3469; 3564; 3729; 3732; 3971; 4067; 4108; 4236; 4590; 5218; 5373
TfiI	G!AWTC	6	659; 3980; 4114; 4224; 4261; 5439
TliI	C!TCGAG	1	2050
TruII	T!TAA	16	7; 1900; 2196; 2257; 2378; 2399; 2410; 2422; 2433; 2450; 2548; 2819; 4638; 4652; 4657; 4709
Tru9I	T!TAA	16	7; 1900; 2196; 2257; 2378; 2399; 2410; 2422; 2433; 2450; 2548; 2819; 4638; 4652; 4657; 4709
TscAI	CASTGNN!	6	966; 2341; 3624; 4734; 5005; 5018
TseI	G!CWGC	25	644; 704; 1081; 1088; 1139; 1142; 1300; 1454; 1535; 1952; 1957; 1970; 2271; 2790; 3455; 3556; 3598; 3639; 3732; 4119; 4572; 4798; 5004; 5007; 5072
TsoI	TARCCANNNNNNNNNNN!	2	2467; 2814
TsoI	!NNNNNNNNNTGGYTA	3	858; 2272; 4024
Tsp45I	!GTSAC	6	957; 1229; 1478; 2784; 3615; 3921
Tsp509I	!AATT	10	18; 2245; 2309; 2387; 2413; 2424; 3071; 3143; 3235; 4653
TspDTI	ATGAANNNNNNNNNNN!	7	757; 892; 1545; 1777; 2253; 3554; 4258
TspDTI	!NNNNNNNNNTTCAT	5	26; 821; 3972; 4428; 4635
TspEI	!AATT	10	18; 2245; 2309; 2387; 2413; 2424; 3071; 3143; 3235; 4653
TspGWI	ACGGANNNNNNNNNNN!	1	4370
TspGWI	!NNNNNNNNNTCCGT	1	1163

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	6	966; 2341; 3624; 4734; 5005; 5018
TstI	CACNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	3	632; 1005; 3613
Tth111II	CAARCANNNNNNNNNN!	3	1041; 2040; 4822
Tth111II	!NNNNNNNTGYTTG	5	837; 953; 3930; 4790; 4829
UnbI	!GGNCC	13	82; 275; 638; 671; 1130; 1213; 1467; 2601; 4010; 4455; 4501; 4559; 4592
Van9II	CCANNNN!NTGG	1	764
Vha464I	C!TTAAG	1	2377
VneI	G!TGCAC	1	5099
VpaK11AI	!GGWCC	5	638; 671; 1213; 4010; 4455
VpaK11BI	G!GWCC	5	639; 672; 1214; 4011; 4456
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATY	3	2309; 2413; 2424
XbaI	T!CTAGA	1	2142
XceI	RCATG!Y	4	3065; 3137; 3900; 5417
XcmI	CCANNNNN!NNNTGG	1	605
XhoI	C!TCGAG	1	2050
XhoII	R!GATCY	14	585; 1057; 2046; 2081; 2105; 2130; 2139; 3666; 3912; 4304; 4663; 4675; 4761; 4772
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3317; 4332
XmiI	GT!MKAC	0	
XmnI	GAANN!NNTTC	1	1506
XspI	C!TAG	8	592; 2143; 2344; 2762; 3318; 4333; 4667; 4920
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3067; 3139; 5470