

## pHyPer-Cyto vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2226; 2431
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2514; 3470; 5259
AatI	AGG!CCT	1	3264
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	2058
AccII	CG!CG	25	60; 807; 901; 970; 1204; 1624; 1780; 1782; 1873; 1990; 2069; 2331; 2367; 2743; 2763; 2787; 2818; 3509; 3810; 4248; 4332; 4395; 4464; 4737; 5318
AccIII	T!CCGGA	1	636
Acc16I	TGC!GCA	3	1803; 1956; 3545
Acc36I	ACCTGCNNNN!	3	688; 3711; 4161
Acc36I	!NNNNNNNNGCAGGT	2	1809; 3330
Acc65I	G!GTACC	1	2063
AccB1I	G!GYRCC	8	465; 1293; 1331; 1731; 2063; 2596; 3442; 3477
AccB7I	CCANNNN!NTGG	1	764
AccBSI	CCG!CTC	2	2867; 4056
AccBSI	GAG!CGG	2	2703; 4110
AceIII	CAGCTCNNNNNNN!	2	1101; 2399
AceIII	!NNNNNNNNNNGAGCTG	5	552; 1251; 1302; 1335; 1656
AciI	C!CGC	49	58; 86; 98; 112; 279; 507; 589; 642; 687; 899; 985; 1061; 1234; 1237; 1514; 1555; 1622; 1661; 1778; 1857; 1916; 1950; 1961; 1988; 2067; 2758; 2761; 2775; 2865; 3113; 3125; 3134; 3146; 3156; 3167; 3213; 3352; 3415; 3917; 3962; 4028; 4054; 4179; 4182; 4330; 4462; 4769; 4913; 5409
AciI	G!CGG	31	370; 403; 528; 781; 1282; 1288; 1758; 1815; 1825; 2031; 2069; 2703; 2730; 2818; 2928; 3509; 3573; 3674; 3677; 3957; 4012; 4110; 4248; 4395; 4535; 4778; 5023; 5144; 5163; 5290; 5318
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	11	1251; 1836; 2086; 2095; 3311; 3622; 3868; 4260; 4619; 4717; 4803
AclWI	!NNNNNGATCC	8	580; 794; 1052; 2073; 3687; 4231; 4618; 4715
AcoI	Y!GGCCR	8	916; 1018; 1367; 2003; 3349; 3523; 3914; 3941
AcsI	R!AATTY	4	2047; 2257; 2361; 2372
AcuI	CTGAAGNNNNNNNNNNNNNNN!	5	1449; 1521; 1692; 3589; 4021
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4819
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	7	122; 175; 258; 444; 3443; 4145; 4224
AdeI	CACNNN!GTG	1	2559
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 678; 910; 1269; 1725; 2065; 3749
AfeI	AGC!GCT	1	1846
AfiI	CCNNNNN!NNGG	22	49; 669; 764; 809; 1240; 1465; 1628; 2455; 2781; 3173; 3424; 3968; 4249; 4281; 4413; 4448; 4498; 4530; 4883; 5162; 5328; 5346
AfII	C!TTAAG	0	
AfIII	A!CRYGT	2	2329; 5361
AgeI	A!CCGGT	1	1734
AgsI	TTS!AA	11	837; 1055; 1550; 1598; 1688; 1749; 2854; 2898; 2908; 3321; 4897
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)
AjnI	!CCWGG	19	88; 281; 1339; 1464; 1576; 1651; 1705; 1789; 1927; 1940; 2977; 3032; 3049; 3828; 4407; 4510; 5200; 5213; 5334
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	3	1326; 1476; 1653
AlfI	GCANNNNNNTGCNNNNNNNNNN!	2	3017; 3089
AlfI	!NNNNNNNNNGCANNNNNNNTGC	2	2983; 3055
AloI	GAACNNNNNTCCNNNNNNNNNN!	1	2525
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	2493
AluI	AG!CT	25	566; 725; 1091; 1165; 1265; 1316; 1349; 1421; 1433; 1454; 1670; 1718; 1973; 2042; 2222; 2389; 2646; 2941; 3229; 3549; 4007; 4804; 5061; 5107; 5197
AluBI	AG!CT	25	566; 725; 1091; 1165; 1265; 1316; 1349; 1421; 1433; 1454; 1670; 1718; 1973; 2042; 2222; 2389; 2646; 2941; 3229; 3549; 4007; 4804; 5061; 5107; 5197
AlwI	GGATCNNNN!	11	1251; 1836; 2086; 2095; 3311; 3622; 3868; 4260; 4619; 4717; 4803
AlwI	!NNNNNGATCC	8	580; 794; 1052; 2073; 3687; 4231; 4618; 4715
Alw21I	GWGCW!C	3	3556; 3746; 5051
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	621; 2867; 3285; 4304; 4432
Alw44I	G!TGCAC	1	5047
AlwNI	CAGNNN!CTG	3	764; 4544; 4952
Ama87I	C!YCGRG	1	2074
Aor13HI	T!CCGGA	1	636
Aor51HI	AGC!GCT	1	1846
ApaI	GGGCC!C	1	2075
ApaBI	GCANNNNN!TGC	3	3011; 3083; 4545
ApaLI	G!TGCAC	1	5047
ApeKI	G!CWGC	25	644; 704; 1081; 1088; 1139; 1142; 1300; 1454; 1535; 1952; 1957; 1970; 2219; 2738; 3403; 3504; 3546; 3587; 3680; 4067; 4520; 4746; 4952; 4955; 5020
ApoI	R!AATY	4	2047; 2257; 2361; 2372
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	3958
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	3752; 4405; 5243
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	2	1941; 3842
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	1366
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	2	1336; 3271
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	4013
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	1	1558
ArsI	CRAANNNNNGTCNNNNNNNNNN!	1	1590
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	29	586; 800; 882; 921; 972; 1058; 1206; 1244; 1436; 1829; 2079; 2088; 2101; 3281; 3285; 3304; 3615; 3693; 3774; 3783; 3861; 4237; 4253; 4612; 4624; 4702; 4710; 4721; 4796
AsiGI	A!CCGGT	1	1734
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	3	632; 1005; 3561
Asp700I	GAANN!NNTTC	1	1506
Asp718I	G!GTACC	1	2063
AspA2I	C!CTAGG	2	3265; 4280
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	33	597; 770; 809; 970; 1204; 1585; 1626; 1782; 1804; 1847; 1867; 1957; 1992; 2709; 2717; 2743; 2765; 2774; 2787; 2818; 3437; 3445; 3509; 3546; 3812; 4072; 4248; 4334; 4737; 4846; 5020; 5120; 5187

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AspS9I	G!GNCC	14	83; 276; 639; 672; 1131; 1214; 1468; 2072; 2550; 3959; 4404; 4450; 4508; 4541
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	2045; 4125
AsuC2I	CC!SGG	8	1241; 1325; 1754; 2076; 3447; 3607; 4220; 4984
AsuHPI	GGTANNNNNNNN!	6	376; 824; 1643; 1667; 4514; 4630
AsuHPI	!NNNNNNNTCACC	5	876; 1313; 1939; 2560; 3621
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	1	2074
AvaII	G!GWCC	5	639; 672; 1214; 3959; 4404
AviII	TGC!GCA	3	1803; 1956; 3545
AvrII	C!CTAGG	2	3265; 4280
AxyI	CC!TNAGG	2	2923; 4555
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	7	1336; 1465; 1714; 2075; 3389; 3482; 5051
BalI	TGG!CCA	2	2005; 3525
BamHI	G!GATCC	1	2078
BanI	G!GYRCC	8	465; 1293; 1331; 1731; 2063; 2596; 3442; 3477
BanII	GRGCY!C	4	2075; 2634; 3808; 4518
BanIII	AT!CGAT	1	3283
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	1	764
BauI	C!ACGAG	2	4161; 5188
BauI	C!TCGTG	2	1476; 4035
BbeI	GGCG!C	1	3446
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNNGTCTTC	0	
BbuI	GCATG!C	3	3013; 3085; 3848
BbvI	GCAGCNNNNNNN!	11	1093; 1312; 1547; 1969; 1982; 2231; 3516; 3558; 4079; 4532; 5032
BbvI	!NNNNNNNNNNNGCTGC	11	631; 691; 1126; 1441; 1939; 2725; 3390; 3574; 3667; 4733; 4939
Bbv12I	GWGCW!C	3	3556; 3746; 5051
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	8	1128; 1344; 1596; 1992; 2573; 3137; 3663; 4165
BccI	!NNNNNGATGG	9	602; 908; 948; 1272; 1869; 1995; 2541; 3321; 3749
BceAI	ACGGCNNNNNNNNNN!	11	1052; 1094; 1145; 1370; 1430; 1511; 1622; 1712; 1745; 3869; 4356
BceAI	!NNNNNNNNNNNNNGCCGT	5	827; 1877; 2584; 3402; 4861
Bcefl	ACGGCNNNNNNNNNN!	11	1052; 1094; 1145; 1370; 1430; 1511; 1622; 1712; 1745; 3869; 4356
Bcefl	!NNNNNNNNNNNNNGCCGT	5	828; 1878; 2585; 3403; 4862
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	1420
BcgI	!NNNNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	1	1386
BciVI	GTATCCNNNNN!	3	2872; 3662; 5163
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2100
BcnI	CC!SGG	8	1241; 1325; 1754; 2076; 3447; 3607; 4220; 4984
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	2123; 5296
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	2	2089; 5262
BfaI	C!TAG	8	592; 2091; 2292; 2710; 3266; 4281; 4615; 4868
BfiI	ACTGGGNNNN!	1	3392

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BfiI	!NNNNCCCAGT	2	289; 3144
BfmI	C!TRYAG	4	2052; 2778; 4905; 5096
BfoI	RGCGC!Y	6	598; 1848; 2710; 2718; 3446; 5121
BfrI	C!TTAAG	0	
BfuI	GATCCNNNNNN!	3	2872; 3662; 5163
BfuI	!NNNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	3	688; 3711; 4161
BfuAI	!NNNNNNNNGCAGGT	2	1809; 3330
BfuCI	!GATC	29	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2078; 2087; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
BglI	GCCNNNN!NGGC	6	90; 212; 283; 622; 924; 3218
BglII	A!GATCT	0	
BisI	GC!NGC	45	645; 705; 782; 1082; 1089; 1140; 1143; 1237; 1301; 1455; 1536; 1816; 1857; 1916; 1953; 1958; 1961; 1971; 2220; 2739; 2761; 2775; 3213; 3352; 3404; 3415; 3505; 3510; 3547; 3588; 3675; 3681; 3917; 4013; 4054; 4068; 4182; 4521; 4536; 4747; 4953; 4956; 5021; 5164; 5319
BlnI	C!CTAGG	2	3265; 4280
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; 2221; 2740; 2762; 2776; 3214; 3353; 3405; 3416; 3506; 3511; 3548; 3589; 3676; 3682; 3918; 4014; 4055; 4069; 4183; 4522; 4537; 4748; 4954; 4957; 5022; 5165; 5320
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	5	639; 672; 1214; 3959; 4404
Bme1390I	CC!NGG	27	90; 283; 1241; 1325; 1341; 1466; 1578; 1653; 1707; 1754; 1791; 1929; 1942; 2076; 2979; 3034; 3051; 3447; 3607; 3830; 4220; 4409; 4512; 4984; 5202; 5215; 5336
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	1	2074
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	14	84; 277; 640; 673; 1132; 1215; 1469; 2073; 2551; 3960; 4405; 4451; 4509; 4542
BmiI	GGN!NCC	22	467; 1133; 1295; 1333; 1733; 1909; 2065; 2073; 2080; 2598; 2619; 2631; 2822; 2983; 3055; 3444; 3479; 4327; 4406; 4451; 5294; 5333
BmrI	ACTGGGNNNNN!	1	3392
BmrI	!NNNNCCCAGT	2	289; 3144
BmrFI	CC!NGG	27	90; 283; 1241; 1325; 1341; 1466; 1578; 1653; 1707; 1754; 1791; 1929; 1942; 2076; 2979; 3034; 3051; 3447; 3607; 3830; 4220; 4409; 4512; 4984; 5202; 5215; 5336
BmsI	GCATCNNNNN!	9	1048; 1672; 1687; 2259; 3022; 3094; 3742; 3806; 4081
BmsI	!NNNNNNNNGATGC	7	357; 934; 1394; 3401; 3656; 3872; 5264
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	3392
BmuI	!NNNNCCCAGT	2	289; 3144
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3232; 4131
BpI	!NNNNNNNNGAGNNNNNNCTC	2	3200; 4099
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	1242; 1740; 4283
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	4226
Bpu10I	CC!TNAGC	2	1161; 1179
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	2045; 4125
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4737; 5276
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	2	3819; 4978
BpuMI	CC!SGG	8	1241; 1325; 1754; 2076; 3447; 3607; 4220; 4984
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	

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BsaI	!NNNNNGAGACC	1	4432
Bsa29I	AT!CGAT	1	3283
BsaAI	YAC!GTR	3	340; 2559; 3747
BsaBI	GATNN!NNATC	2	2105; 3302
BsaHI	GR!CGYC	7	122; 175; 258; 444; 3443; 4145; 4224
BsaJI	C!CNNGG	26	360; 601; 888; 1324; 1464; 1487; 1627; 1651; 1706; 1753; 2067; 2074; 2977; 3049; 3172; 3207; 3216; 3265; 3606; 3875; 4280; 4407; 4408; 4510; 4511; 5201
BsaMI	GAATGCN!	2	909; 2194
BsaMI	G!CATTC	2	828; 2287
BsaWI	W!CCGGW	7	636; 1734; 2084; 3474; 4318; 5008; 5155
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2523
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2493
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	2444; 4351
Bsc4I	CCNNNNN!NNGG	22	49; 669; 764; 809; 1240; 1465; 1628; 2455; 2781; 3173; 3424; 3968; 4249; 4281; 4413; 4448; 4498; 4530; 4883; 5162; 5328; 5346
BscAI	GCATCNNNN!	9	1047; 1671; 1686; 2258; 3021; 3093; 3741; 3805; 4080
BscAI	!NNNNNNGATGC	7	360; 937; 1397; 3404; 3659; 3875; 5267
Bse1I	ACTGGN!	5	769; 778; 3387; 3588; 4834
Bse1I	C!CAGT	7	295; 758; 1169; 2472; 3150; 4946; 4959
Bse8I	GATNN!NNATC	2	2105; 3302
Bse21I	CC!TNAGG	2	2923; 4555
Bse118I	R!CCGGY	8	987; 1296; 1446; 1734; 2660; 3762; 3943; 4226
BseAI	T!CCGGA	1	636
BseBI	CC!WGG	19	90; 283; 1341; 1466; 1578; 1653; 1707; 1791; 1929; 1942; 2979; 3034; 3051; 3830; 4409; 4512; 5202; 5215; 5336
BseCI	AT!CGAT	1	3283
BseDI	C!CNNGG	26	360; 601; 888; 1324; 1464; 1487; 1627; 1651; 1706; 1753; 2067; 2074; 2977; 3049; 3172; 3207; 3216; 3265; 3606; 3875; 4280; 4407; 4408; 4510; 4511; 5201
Bse3DI	GCAATGNN!	2	985; 3676
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	7	1283; 1766; 2006; 3303; 3760; 3785; 4239
BseGI	!CATCC	4	1336; 1702; 1984; 3129
BseJI	GATNN!NNATC	2	2105; 3302
BseLI	CCNNNNN!NNGG	22	49; 669; 764; 809; 1240; 1465; 1628; 2455; 2781; 3173; 3424; 3968; 4249; 4281; 4413; 4448; 4498; 4530; 4883; 5162; 5328; 5346
BseMI	GCAATGNN!	2	985; 3676
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	4569
BseMII	!NNNNNNNNCTGAG	7	1152; 1170; 2914; 3216; 4097; 4669; 5078
BseNI	ACTGGN!	5	769; 778; 3387; 3588; 4834
BseNI	C!CAGT	7	295; 758; 1169; 2472; 3150; 4946; 4959
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1326; 3261
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	7	1336; 1465; 1714; 2075; 3389; 3482; 5051
BseXI	GCAGCNNNNNNNN!	11	1093; 1312; 1547; 1969; 1982; 2231; 3516; 3558; 4079; 4532; 5032
BseXI	!NNNNNNNNNNNGCTGC	11	631; 691; 1126; 1441; 1939; 2725; 3390; 3574; 3667; 4733; 4939
BseX3I	C!GGCCG	1	3349
BseYI	C!CCAGC	3	2986; 3058; 5057
BseYI	G!CTGGG	1	3947
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1107
BsgI	!NNNNNNNNNNNNNNNNCTGCAC	3	630; 690; 1424
Bsh1236I	CG!CG	25	60; 807; 901; 970; 1204; 1624; 1780; 1782; 1873; 1990; 2069; 2331; 2367; 2743; 2763; 2787; 2818; 3509; 3810; 4248; 4332; 4395; 4464; 4737; 5318
Bsh1285I	CGRY!CG	2	3352; 5027

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BshFI	GG!CC	30	84; 277; 918; 1020; 1047; 1132; 1369; 1469; 1498; 1927; 1983; 2005; 2073; 2409; 2551; 3206; 3212; 3221; 3264; 3351; 3525; 3916; 3943; 4452; 4509; 4542; 4887; 5321; 5339; 5350
BshNI	G!GYRCC	8	465; 1293; 1331; 1731; 2063; 2596; 3442; 3477
BshTI	A!CCGGT	1	1734
BshVI	AT!CGAT	1	3283
BsiEI	CGRY!CG	2	3352; 5027
BsiHKAI	GWGCW!C	3	3556; 3746; 5051
BsiHKCI	C!YCGRG	1	2074
BsiSI	C!CGG	29	637; 988; 1240; 1297; 1324; 1387; 1447; 1735; 1753; 1860; 1905; 2075; 2085; 2661; 3348; 3425; 3447; 3475; 3606; 3696; 3763; 3944; 4219; 4227; 4319; 4793; 4983; 5009; 5156
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	22	49; 669; 764; 809; 1240; 1465; 1628; 2455; 2781; 3173; 3424; 3968; 4249; 4281; 4413; 4448; 4498; 4530; 4883; 5162; 5328; 5346
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3594; 4126; 4235
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2959; 3031; 3095; 4390
BsmI	GAATGCN!	2	909; 2194
BsmI	G!CATTC	2	828; 2287
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	621; 2867; 3285; 4304; 4432
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	621
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3594; 4126; 4235
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2959; 3031; 3095; 4390
BsnI	GG!CC	30	84; 277; 918; 1020; 1047; 1132; 1369; 1469; 1498; 1927; 1983; 2005; 2073; 2409; 2551; 3206; 3212; 3221; 3264; 3351; 3525; 3916; 3943; 4452; 4509; 4542; 4887; 5321; 5339; 5350
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	4432
BsoBI	C!YCGRG	1	2074
Bsp13I	T!CCGGA	1	636
Bsp19I	C!CATGG	4	360; 601; 3172; 3875
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4246
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	4667; 4845
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	4699; 4877
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 4214
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	2045; 4125
Bsp120I	G!GGCCC	1	2071
Bsp143I	!GATC	29	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2078; 2087; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
Bsp1286I	GDGCH!C	12	1336; 1465; 1714; 2075; 2634; 3389; 3482; 3556; 3746; 3808; 4518; 5051
Bsp1407I	T!GTACA	1	1267
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	49	58; 86; 98; 112; 279; 507; 589; 642; 687; 899; 985; 1061; 1234; 1237; 1514; 1555; 1622; 1661; 1778; 1857; 1916; 1950; 1961; 1988; 2067; 2758; 2761; 2775; 2865; 3113; 3125; 3134; 3146; 3156; 3167; 3213; 3352; 3415; 3917; 3962; 4028; 4054; 4179; 4182; 4330; 4462; 4769; 4913; 5409
BspACI	G!CGG	31	370; 403; 528; 781; 1282; 1288; 1758; 1815; 1825; 2031; 2069; 2703; 2730; 2818; 2928; 3509; 3573; 3674; 3677; 3957; 4012; 4110; 4248; 4395; 4535; 4778; 5023; 5144; 5163; 5290; 5318
BspCNI	CTCAGNNNNNNNN!	1	4568
BspCNI	!NNNNNNNCTGAG	7	1153; 1171; 2915; 3217; 4098; 4670; 5079
BspDI	AT!CGAT	1	3283
BspD6I	GACTCNNNN!	4	418; 2516; 4122; 4999
BspD6I	!NNNNNNGAGTC	2	2479; 2911
BspEI	T!CCGGA	1	636
BspFNI	CG!CG	25	60; 807; 901; 970; 1204; 1624; 1780; 1782; 1873; 1990; 2069; 2331; 2367; 2743; 2763; 2787; 2818; 3509; 3810; 4248; 4332; 4395; 4464; 4737; 5318
BspHI	T!CATGA	2	2869; 4641

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspLI	GGN!NCC	22	467; 1133; 1295; 1333; 1733; 1909; 2065; 2073; 2080; 2598; 2619; 2631; 2822; 2983; 3055; 3444; 3479; 4327; 4406; 4451; 5294; 5333
BspMI	ACCTGCNNNN!	3	688; 3711; 4161
BspMI	!NNNNNNNNGCAGGT	2	1809; 3330
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	11	1251; 1836; 2086; 2095; 3311; 3622; 3868; 4260; 4619; 4717; 4803
BspPI	!NNNNNGATCC	8	580; 794; 1052; 2073; 3687; 4231; 4618; 4715
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3787; 3997
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	2045; 4125
BspT107I	G!GYRCC	8	465; 1293; 1331; 1731; 2063; 2596; 3442; 3477
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	4432
BsrI	ACTGGN!	5	769; 778; 3387; 3588; 4834
BsrI	C!CAGT	7	295; 758; 1169; 2472; 3150; 4946; 4959
BsrBI	CCG!CTC	2	2867; 4056
BsrBI	GAG!CGG	2	2703; 4110
BsrDI	GCAATGNN!	2	985; 3676
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	8	987; 1296; 1446; 1734; 2660; 3762; 3943; 4226
BsrGI	T!GTACA	1	1267
BsrSI	ACTGGN!	5	769; 778; 3387; 3588; 4834
BsrSI	C!CAGT	7	295; 758; 1169; 2472; 3150; 4946; 4959
BssAI	R!CCGGY	8	987; 1296; 1446; 1734; 2660; 3762; 3943; 4226
BssECI	C!CNNGG	26	360; 601; 888; 1324; 1464; 1487; 1627; 1651; 1706; 1753; 2067; 2074; 2977; 3049; 3172; 3207; 3216; 3265; 3606; 3875; 4280; 4407; 4408; 4510; 4511; 5201
BssHII	G!CGCGC	0	
BssKI	!CCNGG	27	88; 281; 1239; 1323; 1339; 1464; 1576; 1651; 1705; 1752; 1789; 1927; 1940; 2074; 2977; 3032; 3049; 3445; 3605; 3828; 4218; 4407; 4510; 4982; 5200; 5213; 5334
BssMI	!GATC	29	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2078; 2087; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
BssNI	GR!CGYC	7	122; 175; 258; 444; 3443; 4145; 4224
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4161; 5188
BssSI	C!TCGTG	2	1476; 4035
BssT1I	C!CWWGG	6	360; 601; 3172; 3265; 3875; 4280
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2910; 3787; 3997
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	7	122; 175; 258; 444; 3443; 4145; 4224
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	3010; 3082; 4544
BstAUI	T!GTACA	1	1267
BstBI	TT!CGAA	2	2045; 4125
Bst2BI	C!ACGAG	2	4161; 5188
Bst2BI	C!TCGTG	2	1476; 4035
BstBAI	YAC!GTR	3	340; 2559; 3747
Bst4CI	ACN!GT	17	76; 198; 269; 543; 581; 668; 676; 963; 2063; 2534; 3823; 3939; 4047; 4370; 4861; 5331; 5402
BstC8I	GCN!NGC	40	86; 279; 593; 614; 618; 868; 989; 1086; 1093; 1419; 1452; 1514; 1843; 1849; 1975; 2071; 2662; 2705; 2719; 2992; 3011; 3064; 3083; 3337; 3523; 3742; 3808; 3814; 3846; 3887; 3891; 3945; 4228; 4415; 4462; 4518; 4540; 4751; 5311; 5348
BstDEI	C!TNAG	8	1161; 1179; 2923; 3225; 4106; 4555; 4678; 5087
BstDSI	C!CRYGG	6	360; 601; 888; 2067; 3172; 3875
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	7	1283; 1766; 2006; 3303; 3760; 3785; 4239
BstF5I	!CATCC	4	1336; 1702; 1984; 3129

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstFNI	CG!CG	25	60; 807; 901; 970; 1204; 1624; 1780; 1782; 1873; 1990; 2069; 2331; 2367; 2743; 2763; 2787; 2818; 3509; 3810; 4248; 4332; 4395; 4464; 4737; 5318
BstH2I	RGCGC!Y	6	598; 1848; 2710; 2718; 3446; 5121
BstHHI	GCG!C	33	597; 770; 809; 970; 1204; 1585; 1626; 1782; 1804; 1847; 1867; 1957; 1992; 2709; 2717; 2743; 2765; 2774; 2787; 2818; 3437; 3445; 3509; 3546; 3812; 4072; 4248; 4334; 4737; 4846; 5020; 5120; 5187
BstKTI	GAT!C	29	588; 802; 884; 923; 974; 1060; 1208; 1246; 1438; 1831; 2081; 2090; 2103; 3283; 3287; 3306; 3617; 3695; 3776; 3785; 3863; 4239; 4255; 4614; 4626; 4704; 4712; 4723; 4798
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	5	621; 2867; 3285; 4304; 4432
BstMBI	!GATC	29	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2078; 2087; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
BstMCI	CGRY!CG	2	3352; 5027
BstMWI	GCNNNNN!NNGC	39	90; 212; 244; 283; 376; 400; 622; 863; 924; 984; 997; 1300; 1387; 1447; 1460; 1504; 1786; 1853; 1924; 1989; 2670; 2700; 2727; 2769; 3010; 3082; 3133; 3212; 3434; 3518; 3541; 3680; 3803; 3886; 4153; 4340; 4544; 4743; 5315
BstNI	CC!WGG	19	90; 283; 1341; 1466; 1578; 1653; 1707; 1791; 1929; 1942; 2979; 3034; 3051; 3830; 4409; 4512; 5202; 5215; 5336
BstNSI	RCATG!Y	4	3013; 3085; 3848; 5365
BstOI	CC!WGG	19	90; 283; 1341; 1466; 1578; 1653; 1707; 1791; 1929; 1942; 2979; 3034; 3051; 3830; 4409; 4512; 5202; 5215; 5336
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	27	88; 281; 1239; 1323; 1339; 1464; 1576; 1651; 1705; 1752; 1789; 1927; 1940; 2074; 2977; 3032; 3049; 3445; 3605; 3828; 4218; 4407; 4510; 4982; 5200; 5213; 5334
BstSFI	C!TRYAG	4	2052; 2778; 4905; 5096
BstSLI	GKGC!C	7	1336; 1465; 1714; 2075; 3389; 3482; 5051
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	25	60; 807; 901; 970; 1204; 1624; 1780; 1782; 1873; 1990; 2069; 2331; 2367; 2743; 2763; 2787; 2818; 3509; 3810; 4248; 4332; 4395; 4464; 4737; 5318
Bst2UI	CC!WGG	19	90; 283; 1341; 1466; 1578; 1653; 1707; 1791; 1929; 1942; 2979; 3034; 3051; 3830; 4409; 4512; 5202; 5215; 5336
BstV1I	GCAGCNNNNNNN!	11	1093; 1312; 1547; 1969; 1982; 2231; 3516; 3558; 4079; 4532; 5032
BstV1I	!NNNNNNNNNNNGCTGC	11	631; 691; 1126; 1441; 1939; 2725; 3390; 3574; 3667; 4733; 4939
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	1	608
BstX2I	R!GATCY	11	585; 1057; 2078; 2087; 3614; 3860; 4252; 4611; 4623; 4709; 4720
BstYI	R!GATCY	11	585; 1057; 2078; 2087; 3614; 3860; 4252; 4611; 4623; 4709; 4720
BstZI	C!GGCCG	1	3349
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNN!	3	2872; 3662; 5163
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3283
Bsu36I	CC!TNAGG	2	2923; 4555
BsuRI	GG!CC	30	84; 277; 918; 1020; 1047; 1132; 1369; 1469; 1498; 1927; 1983; 2005; 2073; 2409; 2551; 3206; 3212; 3221; 3264; 3351; 3525; 3916; 3943; 4452; 4509; 4542; 4887; 5321; 5339; 5350
BsuTUI	AT!CGAT	1	3283
BtgI	C!CRYGG	6	360; 601; 888; 2067; 3172; 3875
BtgZI	GCGATGNNNNNNNNN!	4	1417; 1888; 2560; 3895
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 3714; 4058
BthCI	GCNG!C	45	647; 707; 784; 1084; 1091; 1142; 1145; 1239; 1303; 1457; 1538; 1818; 1859; 1918; 1955; 1960; 1963; 1973; 2222; 2741; 2763; 2777; 3215; 3354; 3406; 3417; 3507; 3512; 3549; 3590; 3677; 3683; 3919; 4015; 4056; 4070; 4184; 4523; 4538; 4749; 4955; 4958; 5023; 5166; 5321



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2282
BtsCI	GGATGNN!	7	1283; 1766; 2006; 3303; 3760; 3785; 4239
BtsCI	!CATCC	4	1336; 1702; 1984; 3129
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	688; 3711; 4161
BveI	!NNNNNNNNNGCAGGT	2	1809; 3330
Cac8I	GCN!NGC	40	86; 279; 593; 614; 618; 868; 989; 1086; 1093; 1419; 1452; 1514; 1843; 1849; 1975; 2071; 2662; 2705; 2719; 2992; 3011; 3064; 3083; 3337; 3523; 3742; 3808; 3814; 3846; 3887; 3891; 3945; 4228; 4415; 4462; 4518; 4540; 4751; 5311; 5348
CaiI	CAGNNN!CTG	3	764; 4544; 4952
CciI	T!CATGA	2	2869; 4641
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	8	352; 1124; 1667; 1682; 3732; 3737; 3935; 4076
CdiI	C!GATG	6	631; 913; 1403; 1874; 2546; 3881
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5315
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3104; 3146
CelII	GC!TNAGC	0	
CfoI	GCG!C	33	597; 770; 809; 970; 1204; 1585; 1626; 1782; 1804; 1847; 1867; 1957; 1992; 2709; 2717; 2743; 2765; 2774; 2787; 2818; 3437; 3445; 3509; 3546; 3812; 4072; 4248; 4334; 4737; 4846; 5020; 5120; 5187
CfrI	Y!GGCCR	8	916; 1018; 1367; 2003; 3349; 3523; 3914; 3941
Cfr9I	C!CCGGG	1	2074
Cfr10I	R!CCGGY	8	987; 1296; 1446; 1734; 2660; 3762; 3943; 4226
Cfr13I	G!GNCC	14	83; 276; 639; 672; 1131; 1214; 1468; 2072; 2550; 3959; 4404; 4450; 4508; 4541
Cfr42I	CCGC!GG	1	2070
ChaI	GATC!	29	589; 803; 885; 924; 975; 1061; 1209; 1247; 1439; 1832; 2082; 2091; 2104; 3284; 3288; 3307; 3618; 3696; 3777; 3786; 3864; 4240; 4256; 4615; 4627; 4705; 4713; 4724; 4799
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	4	3260; 4700; 4800; 4878
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2927; 3022; 4214; 4764; 5319
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2961; 3056; 4248; 4798; 5353
CjeI	!NNNNNNNNCCANNNNNNGT	4	3226; 4666; 4766; 4844
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	2	4700; 4878
CjePI	!NNNNNNNNNGANNNNNNNTGG	4	257; 873; 4214; 4813
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	4	290; 906; 4247; 4846
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	4667; 4845
ClaI	AT!CGAT	1	3283
CpoI	CG!GWCCG	2	639; 3959
CseI	GACGCNNNNN!	3	526; 4153; 4232
CseI	!NNNNNNNNNNNGCGTC	3	2776; 4671; 5249
CsiI	A!CCWGGT	1	3032
CspI	CG!GWCCG	2	639; 3959
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 677; 909; 1268; 1724; 2064; 3748
Csp45I	TT!CGAA	2	2045; 4125
CspAI	A!CCGGT	1	1734
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	3	1714; 2723; 4332
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	23	301; 361; 602; 741; 1016; 1211; 1256; 1529; 1559; 1808; 2870; 3010; 3082; 3173; 3314; 3659; 3845; 3876; 3902; 4258; 4642; 5362; 5413

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviJI	RG!CY	108	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; 2042; 2073; 2112; 2222; 2389; 2409; 2551; 2632; 2646; 2660; 2941; 2982; 3054; 3177; 3206; 3212; 3221; 3229; 3252; 3264; 3270; 3351; 3368; 3376; 3403; 3428; 3512; 3521; 3525; 3549; 3587; 3663; 3680; 3699; 3762; 3806; 3816; 3833; 3916; 3943; 3947; 3984; 4007; 4023; 4203; 4230; 4291; 4413; 4452; 4509; 4516; 4523; 4542; 4553; 4804; 4833; 4876; 4887; 4952; 5031; 5056; 5061; 5107; 5197; 5295; 5321; 5339; 5350
CviKI-1	RG!CY	108	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; 2042; 2073; 2112; 2222; 2389; 2409; 2551; 2632; 2646; 2660; 2941; 2982; 3054; 3177; 3206; 3212; 3221; 3229; 3252; 3264; 3270; 3351; 3368; 3376; 3403; 3428; 3512; 3521; 3525; 3549; 3587; 3663; 3680; 3699; 3762; 3806; 3816; 3833; 3916; 3943; 3947; 3984; 4007; 4023; 4203; 4230; 4291; 4413; 4452; 4509; 4516; 4523; 4542; 4553; 4804; 4833; 4876; 4887; 4952; 5031; 5056; 5061; 5107; 5197; 5295; 5321; 5339; 5350
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 677; 909; 1268; 1724; 2064; 3748
DdeI	C!TNAG	8	1161; 1179; 2923; 3225; 4106; 4555; 4678; 5087
DinI	GGC!GCC	1	3444
DpnI	GA!TC	29	587; 801; 883; 922; 973; 1059; 1207; 1245; 1437; 1830; 2080; 2089; 2102; 3282; 3286; 3305; 3616; 3694; 3775; 3784; 3862; 4238; 4254; 4613; 4625; 4703; 4711; 4722; 4797
DpnII	!GATC	29	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2078; 2087; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
DraI	TTT!AAA	5	2023; 2037; 2145; 4587; 4606
DraII	RG!GNCCY	1	4541
DraIII	CACNNN!GTG	1	2559
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	3	266; 1624; 4923
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	2514; 3470; 5259
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2514; 3470; 5259
EaeI	Y!GGCCR	8	916; 1018; 1367; 2003; 3349; 3523; 3914; 3941
EagI	C!GGCCG	1	3349
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2910; 3787; 3997
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	2910; 3787; 3997
EciI	GGCGGANNNNNNNNNNNN!	5	1773; 2943; 3972; 5159; 5305
EciI	!NNNNNNNNNTCCGCC	7	496; 974; 1050; 1544; 3114; 3135; 3156
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	1	3349
Eco24I	GRGCY!C	4	2075; 2634; 3808; 4518
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	4432
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	5	639; 672; 1214; 3959; 4404
Eco47III	AGC!GCT	1	1846
Eco52I	C!GGCCG	1	3349
Eco57I	CTGAAGNNNNNNNNNNNNNNNNNN!	5	1449; 1521; 1692; 3589; 4021
Eco57I	!NNNNNNNNNNNNNNNNNCTTCAG	1	4819
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	2	2923; 4555
Eco88I	C!YCGRG	1	2074
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 601; 3172; 3265; 3875; 4280

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco147I	AGG!CCT	1	3264
EcoHI	!CCSGG	8	1239; 1323; 1752; 2074; 3445; 3605; 4218; 4982
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	8	1242; 1449; 1521; 1692; 1740; 3589; 4021; 4283
Eco57MI	!NNNNNNNNNNNNNNNCTYCAG	2	4226; 4819
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	4541
EcoRI	G!AATTC	1	2047
EcoRII	!CCWGG	19	88; 281; 1339; 1464; 1576; 1651; 1705; 1789; 1927; 1940; 2977; 3032; 3049; 3828; 4407; 4510; 5200; 5213; 5334
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 601; 3172; 3265; 3875; 4280
EcoT22I	ATGCA!T	3	3015; 3087; 5418
EcoT38I	GRGCY!C	4	2075; 2634; 3808; 4518
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	1	3444
EheI	GGC!GCC	1	3444
ErhI	C!CWWGG	6	360; 601; 3172; 3265; 3875; 4280
EsaBC3I	TC!GA	19	791; 1073; 1346; 1640; 1667; 2012; 2046; 2059; 2593; 3284; 3557; 3713; 3737; 3773; 3935; 4126; 4171; 4426; 5264
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	1	621
FaeI	CATG!	23	304; 364; 605; 744; 1019; 1214; 1259; 1532; 1562; 1811; 2873; 3013; 3085; 3176; 3317; 3662; 3848; 3879; 3905; 4261; 4645; 5365; 5416
FaiI	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; 2105; 2115; 2181; 2226; 2431; 2859; 2871; 3002; 3011; 3074; 3083; 3107; 3174; 3198; 3315; 3379; 3660; 3685; 3846; 3877; 3903; 3975; 4191; 4259; 4337; 4389; 4550; 4567; 4569; 4571; 4643; 4921; 5110; 5226; 5299; 5363; 5414
FaiI	AAGNNNNNCTTNNNNNNNNNNNN!	2	1067; 3783
FaiI	!NNNNNNNNNAAGNNNNNCTT	2	1035; 3751
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3594; 4126; 4235
FaqI	!NNNNNNNNNNNNNGTCCC	4	2959; 3031; 3095; 4390
FatI	!CATG	23	300; 360; 601; 740; 1015; 1210; 1255; 1528; 1558; 1807; 2869; 3009; 3081; 3172; 3313; 3658; 3844; 3875; 3901; 4257; 4641; 5361; 5412
FauI	CCCGCNNNN!	10	93; 119; 286; 1521; 1629; 2765; 3120; 3141; 4337; 4469
FauI	!NNNNNGCGGG	7	1818; 2062; 2696; 3566; 4103; 4241; 4388
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2100
FblI	GT!MKAC	1	2058
FmuI	GGNC!C	14	86; 279; 642; 675; 1134; 1217; 1471; 2075; 2553; 3962; 4407; 4453; 4511; 4544
Fnu4HI	GC!NGC	45	645; 705; 782; 1082; 1089; 1140; 1143; 1237; 1301; 1455; 1536; 1816; 1857; 1916; 1953; 1958; 1961; 1971; 2220; 2739; 2761; 2775; 3213; 3352; 3404; 3415; 3505; 3510; 3547; 3588; 3675; 3681; 3917; 4013; 4054; 4068; 4182; 4521; 4536; 4747; 4953; 4956; 5021; 5164; 5319
FokI	GGATGNNNNNNNN!	7	1290; 1773; 2013; 3310; 3767; 3792; 4246
FokI	!NNNNNNNNNNNNNCATCC	4	1323; 1689; 1971; 3116
FriOI	GRGCY!C	4	2075; 2634; 3808; 4518
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	3	1803; 1956; 3545
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 2091; 2292; 2710; 3266; 4281; 4615; 4868

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	181	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; 2080; 2095; 2126; 2165; 2179; 2320; 2415; 2439; 2462; 2485; 2503; 2525; 2546; 2565; 2584; 2613; 2634; 2648; 2674; 2762; 2788; 2837; 2878; 2896; 2935; 2951; 2989; 3046; 3061; 3118; 3138; 3152; 3169; 3183; 3220; 3235; 3278; 3361; 3428; 3459; 3479; 3494; 3539; 3553; 3619; 3633; 3652; 3668; 3709; 3729; 3776; 3826; 3842; 3862; 3887; 3907; 3930; 3957; 3975; 4001; 4041; 4067; 4091; 4147; 4161; 4189; 4232; 4253; 4288; 4332; 4420; 4444; 4466; 4486; 4502; 4523; 4537; 4556; 4640; 4660; 4688; 4703; 4737; 4779; 4806; 4821; 4866; 4890; 4904; 4926; 4952; 4972; 4996; 5022; 5070; 5089; 5108; 5134; 5169; 5214; 5244; 5258; 5309; 5323; 5348; 5364; 5385; 5414
FspEI	!NNNNNNNNNNNNNGG	149	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; 2046; 2070; 2114; 2214; 2283; 2391; 2440; 2462; 2490; 2526; 2571; 2600; 2636; 2655; 2683; 2703; 2766; 2789; 2897; 2929; 2947; 2976; 3019; 3048; 3159; 3188; 3231; 3252; 3280; 3313; 3333; 3358; 3385; 3410; 3432; 3460; 3486; 3507; 3558; 3579; 3597; 3645; 3681; 3737; 3762; 3786; 3815; 3838; 3862; 3888; 3910; 3929; 3954; 3994; 4030; 4095; 4180; 4204; 4233; 4267; 4288; 4308; 4353; 4380; 4399; 4432; 4484; 4515; 4542; 4594; 4692; 4763; 4808; 4869; 4934; 4968; 4994; 5012; 5048; 5118; 5141; 5163; 5187; 5220; 5268; 5303; 5321; 5378
Fsp4HI	GC!NGC	45	645; 705; 782; 1082; 1089; 1140; 1143; 1237; 1301; 1455; 1536; 1816; 1857; 1916; 1953; 1958; 1961; 1971; 2220; 2739; 2761; 2775; 3213; 3352; 3404; 3415; 3505; 3510; 3547; 3588; 3675; 3681; 3917; 4013; 4054; 4068; 4182; 4521; 4536; 4747; 4953; 4956; 5021; 5164; 5319
GdiII	C!GGCCR	2	1367; 3349
GdiII	Y!GGCCG	5	916; 1018; 3349; 3914; 3941
GlaI	GC!GC	33	596; 769; 808; 969; 1203; 1584; 1625; 1781; 1803; 1846; 1866; 1956; 1991; 2708; 2716; 2742; 2764; 2773; 2786; 2817; 3436; 3444; 3508; 3545; 3811; 4071; 4247; 4333; 4736; 4845; 5019; 5119; 5186
GluI	GC!NGC	45	645; 705; 782; 1082; 1089; 1140; 1143; 1237; 1301; 1455; 1536; 1816; 1857; 1916; 1953; 1958; 1961; 1971; 2220; 2739; 2761; 2775; 3213; 3352; 3404; 3415; 3505; 3510; 3547; 3588; 3675; 3681; 3917; 4013; 4054; 4068; 4182; 4521; 4536; 4747; 4953; 4956; 5021; 5164; 5319
GsaI	CCCAG!C	3	2990; 3062; 5061
GsaI	GCTGG!G	1	3951
GsuI	CTGGAGNNNNNNNNNNNNNN!	3	1242; 1740; 4283
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	4226
HaeI	WGG!CCW	9	1047; 1927; 1983; 2005; 3264; 3525; 4887; 5339; 5350
HaeII	RGCGC!Y	6	598; 1848; 2710; 2718; 3446; 5121
HaeIII	GG!CC	30	84; 277; 918; 1020; 1047; 1132; 1369; 1469; 1498; 1927; 1983; 2005; 2073; 2409; 2551; 3206; 3212; 3221; 3264; 3351; 3525; 3916; 3943; 4452; 4509; 4542; 4887; 5321; 5339; 5350
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	3	938; 2118; 3639
HaeIV	!NNNNNNNNNGAYNNNNNRTC	3	904; 2084; 3605
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	3	937; 2117; 3638
HaeIV	!NNNNNNNGAYNNNNNRTC	3	906; 2086; 3607
HapII	C!CGG	29	637; 988; 1240; 1297; 1324; 1387; 1447; 1735; 1753; 1860; 1905; 2075; 2085; 2661; 3348; 3425; 3447; 3475; 3606; 3696; 3763; 3944; 4219; 4227; 4319; 4793; 4983; 5009; 5156
HgaI	GACGCNNNNN!	3	526; 4153; 4232
HgaI	!NNNNNNNNNNNGCGTC	3	2776; 4671; 5249
HhaI	GCG!C	33	597; 770; 809; 970; 1204; 1585; 1626; 1782; 1804; 1847; 1867; 1957; 1992; 2709; 2717; 2743; 2765; 2774; 2787; 2818; 3437; 3445; 3509; 3546; 3812; 4072; 4248; 4334; 4737; 4846; 5020; 5120; 5187

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hin1I	GR!CGYC	7	122; 175; 258; 444; 3443; 4145; 4224
Hin1III	CATG!	23	304; 364; 605; 744; 1019; 1214; 1259; 1532; 1562; 1811; 2873; 3013; 3085; 3176; 3317; 3662; 3848; 3879; 3905; 4261; 4645; 5365; 5416
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	937; 2117; 3638
Hin4I	!NNNNNNNGABNNNNNRTC	5	618; 905; 2085; 3606; 3636
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	5	650; 937; 2117; 3638; 3668
Hin4I	!NNNNNNNGAYNNNNNVTC	3	905; 2085; 3606
Hin6I	G!CGC	33	595; 768; 807; 968; 1202; 1583; 1624; 1780; 1802; 1845; 1865; 1955; 1990; 2707; 2715; 2741; 2763; 2772; 2785; 2816; 3435; 3443; 3507; 3544; 3810; 4070; 4246; 4332; 4735; 4844; 5018; 5118; 5185
HinP1I	G!CGC	33	595; 768; 807; 968; 1202; 1583; 1624; 1780; 1802; 1845; 1865; 1955; 1990; 2707; 2715; 2741; 2763; 2772; 2785; 2816; 3435; 3443; 3507; 3544; 3810; 4070; 4246; 4332; 4735; 4844; 5018; 5118; 5185
HincII	GTY!RAC	2	2059; 2206
HindII	GTY!RAC	2	2059; 2206
HindIII	A!AGCTT	1	2040
HinfI	G!ANTC	12	410; 659; 2486; 2508; 2918; 3928; 4062; 4114; 4172; 4209; 4991; 5387
HpaI	GTT!AAC	1	2206
HpaII	C!CGG	29	637; 988; 1240; 1297; 1324; 1387; 1447; 1735; 1753; 1860; 1905; 2075; 2085; 2661; 3348; 3425; 3447; 3475; 3606; 3696; 3763; 3944; 4219; 4227; 4319; 4793; 4983; 5009; 5156
HphI	GGTGANNNNNNNN!	6	376; 824; 1643; 1667; 4514; 4630
HphI	!NNNNNNNTCACC	5	876; 1313; 1939; 2560; 3621
Hpy8I	GTN!NAC	12	201; 539; 577; 1321; 1364; 1658; 2059; 2206; 2490; 2507; 2562; 5049
Hpy99I	CGWCG!	12	1074; 1131; 1362; 1608; 2063; 3533; 3561; 3855; 3870; 4147; 4532; 5265
Hpy166II	GTN!NAC	12	201; 539; 577; 1321; 1364; 1658; 2059; 2206; 2490; 2507; 2562; 5049
Hpy188I	TCN!GA	11	585; 2617; 3226; 3410; 3754; 4107; 4208; 4687; 4821; 5174; 5252
Hpy188III	TC!NNGA	25	637; 1055; 1178; 1229; 1478; 2091; 2870; 2922; 3235; 3288; 3461; 3777; 3786; 3869; 3925; 3969; 4059; 4092; 4161; 4642; 4716; 4799; 4897; 4995; 5129
HpyAV	CCTTCNNNNNN!	3	4088; 4195; 4874
HpyAV	!NNNNNGAAGG	9	1560; 1667; 2676; 3571; 4300; 4316; 4499; 4816; 5126
HpyCH4III	ACN!GT	17	76; 198; 269; 543; 581; 668; 676; 963; 2063; 2534; 3823; 3939; 4047; 4370; 4861; 5331; 5402
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 1006; 1069; 1273; 1360; 1573; 2503; 2515; 2558; 2668; 3559; 3746; 4527; 4660
HpyCH4V	TG!CA	23	647; 707; 740; 1088; 1441; 1897; 2054; 2192; 2219; 2287; 3004; 3013; 3076; 3085; 3200; 3276; 3335; 3494; 3669; 3683; 4753; 5049; 5416
HpyF3I	C!TNAG	8	1161; 1179; 2923; 3225; 4106; 4555; 4678; 5087
HpyF10VI	GCNNNNN!NNGC	39	90; 212; 244; 283; 376; 400; 622; 863; 924; 984; 997; 1300; 1387; 1447; 1460; 1504; 1786; 1853; 1924; 1989; 2670; 2700; 2727; 2769; 3010; 3082; 3133; 3212; 3434; 3518; 3541; 3680; 3803; 3886; 4153; 4340; 4544; 4743; 5315
Hsp92I	GR!CGYC	7	122; 175; 258; 444; 3443; 4145; 4224
Hsp92II	CATG!	23	304; 364; 605; 744; 1019; 1214; 1259; 1532; 1562; 1811; 2873; 3013; 3085; 3176; 3317; 3662; 3848; 3879; 3905; 4261; 4645; 5365; 5416
HspAI	G!CGC	33	595; 768; 807; 968; 1202; 1583; 1624; 1780; 1802; 1845; 1865; 1955; 1990; 2707; 2715; 2741; 2763; 2772; 2785; 2816; 3435; 3443; 3507; 3544; 3810; 4070; 4246; 4332; 4735; 4844; 5018; 5118; 5185
KasI	G!GCGCC	1	3442
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	2067
Kpn2I	T!CCGGA	1	636
KspI	CCGC!GG	1	2070
Ksp22I	T!GATCA	1	2100
KspAI	GTT!AAC	1	2206

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kzo9I	!GATC	29	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2078; 2087; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3787; 3997
LpnI	RGCI:GCGY	6	596; 1846; 2708; 2716; 3444; 5119
LpnPI	CCDGNNNNNNNNN!	76	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; 2088; 2180; 2485; 2674; 2897; 2935; 2951; 2991; 3046; 3063; 3163; 3248; 3361; 3438; 3460; 3483; 3619; 3633; 3652; 3709; 3776; 3826; 3842; 3899; 3957; 4166; 4232; 4256; 4332; 4421; 4524; 4557; 4788; 4806; 4952; 4972; 4996; 5022; 5071; 5169; 5214; 5244; 5323; 5348; 5385
LpnPI	!NNNNNNNNNNNNNNCHGG	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; 2060; 2526; 2646; 2703; 2766; 2964; 2976; 3036; 3048; 3280; 3325; 3368; 3410; 3432; 3460; 3507; 3569; 3591; 3681; 3748; 3771; 3815; 3910; 3929; 3954; 4103; 4204; 4247; 4304; 4394; 4497; 4524; 4542; 4778; 4815; 4968; 4994; 5134; 5152; 5187; 5268; 5321
Lsp1109I	GCAGCNNNNNNNN!	11	1093; 1312; 1547; 1969; 1982; 2231; 3516; 3558; 4079; 4532; 5032
Lsp1109I	!NNNNNNNNNNNGCTGC	11	631; 691; 1126; 1441; 1939; 2725; 3390; 3574; 3667; 4733; 4939
LweI	GCATCNNNNN!	9	1048; 1672; 1687; 2259; 3022; 3094; 3742; 3806; 4081
LweI	!NNNNNNNNNGATGC	7	357; 934; 1394; 3401; 3656; 3872; 5264
MabI	A!CCWGGT	1	3032
MaeI	C!TAG	8	592; 2091; 2292; 2710; 3266; 4281; 4615; 4868
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 1006; 1069; 1273; 1360; 1573; 2503; 2515; 2558; 2668; 3559; 3746; 4527; 4660
MaeIII	!GTNAC	16	61; 148; 497; 760; 957; 1229; 1478; 2231; 2732; 2744; 3563; 3869; 4559; 4825; 4941; 5004
MalI	GA!TC	29	587; 801; 883; 922; 973; 1059; 1207; 1245; 1437; 1830; 2080; 2089; 2102; 3282; 3286; 3305; 3616; 3694; 3775; 3784; 3862; 4238; 4254; 4613; 4625; 4703; 4711; 4722; 4797
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2867; 4056
MbiI	GAG!CGG	2	2703; 4110
MboI	!GATC	29	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2078; 2087; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
MboII	GAAGANNNNNNNN!	9	891; 963; 1043; 1776; 2699; 2927; 3804; 4014; 4633
MboII	!NNNNNNNTCTTC	6	1538; 1583; 4094; 4261; 4461; 4704
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2193
MfII	R!GATCY	11	585; 1057; 2078; 2087; 3614; 3860; 4252; 4611; 4623; 4709; 4720
MhII	GDGCH!C	12	1336; 1465; 1714; 2075; 2634; 3389; 3482; 3556; 3746; 3808; 4518; 5051
MIsI	TGG!CCA	2	2005; 3525
MluI	A!CGCGT	1	2329
MluNI	TGG!CCA	2	2005; 3525
MlyI	GAGTCNNNNN!	2	2495; 2927
MlyI	!NNNNNGACTC	4	404; 2502; 4108; 4985
Mly113I	GG!CGCC	1	3443
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	2536
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	3	650; 4968; 5152
MnlI	CCTCNNNNNNN!	10	813; 1485; 1497; 2162; 3226; 4044; 4250; 4564; 4934; 5258
MnlI	!NNNNNGAGG	20	541; 1067; 1304; 1385; 1622; 1634; 1685; 1973; 2122; 2587; 2918; 3196; 3239; 3254; 3294; 3358; 3494; 3851; 4281; 5184
Mph1103I	ATGCA!T	3	3015; 3087; 5418
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	636
MroNI	G!CCGGC	4	987; 2660; 3943; 4226

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MroXI	GAANN!NNTTC	1	1506
MscI	TGG!CCA	2	2005; 3525
MseI	T!TAA	18	7; 1900; 2022; 2036; 2144; 2205; 2326; 2347; 2358; 2370; 2381; 2398; 2496; 2767; 4586; 4600; 4605; 4657
MslI	CAYNN!NNRTG	7	365; 606; 837; 1326; 1476; 1653; 3880
MspI	C!CGG	29	637; 988; 1240; 1297; 1324; 1387; 1447; 1735; 1753; 1860; 1905; 2075; 2085; 2661; 3348; 3425; 3447; 3475; 3606; 3696; 3763; 3944; 4219; 4227; 4319; 4793; 4983; 5009; 5156
Msp20I	TGG!CCA	2	2005; 3525
MspA1I	CMG!CKG	9	644; 781; 1952; 1973; 2069; 2941; 3549; 4778; 5023
MspCI	C!TTAAG	0	
MspJI	CNNRRNNNNNNNNN!	277	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; 2989; 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; 2040; 2058; 2080; 2097; 2111; 2126; 2150; 2167; 2180; 2221; 2235; 2248; 2266; 2304; 2319; 2337; 2378; 2402; 2422; 2440; 2461; 2484; 2516; 2531; 2553; 2571; 2584; 2605; 2622; 2635; 2648; 2664; 2677; 2707; 2722; 2747; 2765; 2778; 2793; 2817; 2831; 2855; 2880; 2896; 2934; 2950; 2989; 3003; 3017; 3045; 3061; 3075; 3089; 3118; 3131; 3152; 3161; 3183; 3213; 3229; 3247; 3277; 3300; 3324; 3348; 3367; 3395; 3421; 3437; 3450; 3473; 3487; 3507; 3520; 3534; 3553; 3567; 3580; 3596; 3611; 3624; 3640; 3655; 3671; 3696; 3715; 3731; 3744; 3757; 3775; 3789; 3803; 3819; 3841; 3857; 3876; 3898; 3914; 3937; 3956; 3970; 3986; 4000; 4020; 4036; 4049; 4071; 4104; 4118; 4138; 4151; 4165; 4219; 4232; 4255; 4268; 4287; 4304; 4331; 4367; 4400; 4419; 4444; 4465; 4492; 4505; 4522; 4536; 4551; 4567; 4627; 4652; 4668; 4690; 4703; 4717; 4748; 4762; 4787; 4805; 4820; 4833; 4852; 4865; 4880; 4909; 4928; 4946; 4971; 4986; 5005; 5021; 5040; 5058; 5074; 5088; 5107; 5134; 5157; 5179; 5198; 5213; 5226; 5243; 5263; 5290; 5303; 5322; 5347; 5370; 5384; 5397; 5414
MspJI	!NNNNNNNNNNNNYNGG	232	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; 2037; 2054; 2071; 2095; 2124; 2153; 2195; 2278; 2316; 2340; 2363; 2392; 2436; 2458; 2490; 2526; 2543; 2564; 2601; 2621; 2638; 2655; 2690; 2708; 2726; 2743; 2767; 2789; 2816; 2844; 2870; 2908; 2929; 2946; 2964; 2987; 3008; 3036; 3059; 3080; 3098; 3119; 3136; 3159; 3183; 3203; 3221; 3243; 3274; 3296; 3322; 3341; 3358; 3386; 3405; 3424; 3442; 3460; 3481; 3503; 3527; 3560; 3580; 3598; 3619; 3645; 3672; 3689; 3706; 3723; 3749; 3771; 3793; 3811; 3831; 3850; 3872; 3910; 3930; 3954; 3974; 3994; 4021; 4045; 4078; 4097; 4125; 4147; 4176; 4204; 4229; 4248; 4267; 4288; 4305; 4322; 4353; 4380; 4400; 4423; 4443; 4480; 4497; 4516; 4542; 4562; 4601; 4628; 4647; 4665; 4702; 4720; 4761; 4779; 4805; 4822; 4854; 4883; 4911; 4932; 4955; 4974; 4995; 5013; 5030; 5048; 5074; 5095; 5115; 5135; 5153; 5174; 5200; 5217; 5236; 5255; 5284; 5303; 5321; 5340; 5358; 5376; 5399
MspR9I	CC!NGG	27	90; 283; 1241; 1325; 1341; 1466; 1578; 1653; 1707; 1754; 1791; 1929; 1942; 2076; 2979; 3034; 3051; 3447; 3607; 3830; 4220; 4409; 4512; 4984; 5202; 5215; 5336
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	2193
MvaI	CC!WGG	19	90; 283; 1341; 1466; 1578; 1653; 1707; 1791; 1929; 1942; 2979; 3034; 3051; 3830; 4409; 4512; 5202; 5215; 5336
Mva1269I	GAATGCN!	2	909; 2194
Mva1269I	G!CATTC	2	828; 2287

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MvnI	CG!CG	25	60; 807; 901; 970; 1204; 1624; 1780; 1782; 1873; 1990; 2069; 2331; 2367; 2743; 2763; 2787; 2818; 3509; 3810; 4248; 4332; 4395; 4464; 4737; 5318
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; 2670; 2700; 2727; 2769; 3010; 3082; 3133; 3212; 3434; 3518; 3541; 3680; 3803; 3886; 4153; 4340; 4544; 4743; 5315
NaeI	GCC!GGC	4	989; 2662; 3945; 4228
NarI	GG!CGCC	1	3443
NciI	CC!SGG	8	1241; 1325; 1754; 2076; 3447; 3607; 4220; 4984
NcoI	C!CATGG	4	360; 601; 3172; 3875
NdeI	CA!TATG	1	234
NdeII	!GATC	29	585; 799; 881; 920; 971; 1057; 1205; 1243; 1435; 1828; 2078; 2087; 2100; 3280; 3284; 3303; 3614; 3692; 3773; 3782; 3860; 4236; 4252; 4611; 4623; 4701; 4709; 4720; 4795
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	987; 2660; 3943; 4226
NheI	G!CTAGC	1	591
NlaIII	CATG!	23	304; 364; 605; 744; 1019; 1214; 1259; 1532; 1562; 1811; 2873; 3013; 3085; 3176; 3317; 3662; 3848; 3879; 3905; 4261; 4645; 5365; 5416
NlaIV	GGN!NCC	22	467; 1133; 1295; 1333; 1733; 1909; 2065; 2073; 2080; 2598; 2619; 2631; 2822; 2983; 3055; 3444; 3479; 4327; 4406; 4451; 5294; 5333
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2275; 2590; 4182
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 5254
Nli3877I	CYCGR!G	1	2078
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1652; 3232; 3668
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	3	1231; 1468; 3197
NmeDI	RCCGGYNNNNNNNN!	8	999; 1308; 1458; 1746; 2672; 3774; 3955; 4238
NmeDI	!NNNNNNNNNNNNRCCGGY	8	974; 1283; 1433; 1721; 2647; 3749; 3930; 4213
NmuCI	!GTSAC	6	957; 1229; 1478; 2732; 3563; 3869
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	3	1803; 1956; 3545
NsiI	ATGCA!T	3	3015; 3087; 5418
NspI	RCATG!Y	4	3013; 3085; 3848; 5365
NspV	TT!CGAA	2	2045; 4125
OliI	CACNN!NNGTG	3	1326; 1476; 1653
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 679; 911; 1270; 1726; 2066; 3750
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3013; 3085; 3848
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	2	2869; 4641
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4408; 4511
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	3264
PciI	A!CATGT	1	5361
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3787; 3997
PcsI	WCGNNNN!NNNCGW	8	1201; 1258; 3737; 3814; 4057; 4131; 4524; 5042
PctI	GAATGCN!	2	909; 2194
PctI	G!CATTC	2	828; 2287
PdiI	GCC!GGC	4	989; 2662; 3945; 4228
PdmI	GAANN!NNTTC	1	1506
PfeI	G!AWTC	6	659; 3928; 4062; 4172; 4209; 5387
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	3	632; 1005; 3561
PfIMI	CCANNNN!NTGG	1	764
PfoI	T!CCNGGA	2	1576; 4218



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PhoI	GG!CC	30	84; 277; 918; 1020; 1047; 1132; 1369; 1469; 1498; 1927; 1983; 2005; 2073; 2409; 2551; 3206; 3212; 3221; 3264; 3351; 3525; 3916; 3943; 4452; 4509; 4542; 4887; 5321; 5339; 5350
PinAI	A!CCGGT	1	1734
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	3824
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	3	922; 3389; 3644
PleI	GAGTCNNNN!	2	2494; 2926
PleI	!NNNNNGACTC	4	404; 2502; 4108; 4985
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	2525
PpiI	!NNNNNNNNNGAGNNNNNGTTC	3	1302; 1620; 4655
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	3	1334; 1652; 4687
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2493
PpsI	GAGTCNNNN!	2	2494; 2926
PpsI	!NNNNNGACTC	4	404; 2502; 4108; 4985
Ppu10I	A!TGCAT	3	3011; 3083; 5414
Ppu21I	YAC!GTR	3	340; 2559; 3747
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	5361
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2226; 2431
Psp03I	GGWC!C	5	642; 675; 1217; 3962; 4407
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	19	88; 281; 1339; 1464; 1576; 1651; 1705; 1789; 1927; 1940; 2977; 3032; 3049; 3828; 4407; 4510; 5200; 5213; 5334
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; 2977; 3032; 3049; 3828; 4407; 4510; 5200; 5213; 5334
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 1133; 1295; 1333; 1733; 1909; 2065; 2073; 2080; 2598; 2619; 2631; 2822; 2983; 3055; 3444; 3479; 4327; 4406; 4451; 5294; 5333
PspOMI	G!GGCCC	1	2071
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	3	125; 3173; 4172
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3575
PspPI	G!GNCC	14	83; 276; 639; 672; 1131; 1214; 1468; 2072; 2550; 3959; 4404; 4450; 4508; 4541
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	2996; 3068; 4574
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	3	1693; 2909; 4104
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	4544
PstI	CTGCA!G	1	2056
PstNI	CAGNNN!CTG	3	764; 4544; 4952
PsuI	R!GATCY	11	585; 1057; 2078; 2087; 3614; 3860; 4252; 4611; 4623; 4709; 4720
PsyI	GACN!NNGTC	3	632; 1005; 3561
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1973; 2941; 3549
RcaI	T!CATGA	2	2869; 4641
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	3958
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sfr303I	CCGC!GG	1	2070
SfuI	TT!CGAA	2	2045; 4125
SgeI	CNNGNNNNNNNNN!	222	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; 2080; 2097; 2150; 2179; 2221; 2304; 2342; 2378; 2462; 2484; 2516; 2553; 2571; 2590; 2605; 2647; 2664; 2681; 2716; 2730; 2747; 2769; 2793; 2817; 2882; 2896; 2934; 2950; 2990; 3003; 3022; 3045; 3062; 3075; 3094; 3124; 3145; 3162; 3185; 3220; 3247; 3278; 3300; 3326; 3348; 3367; 3395; 3431; 3450; 3473; 3487; 3507; 3520; 3534; 3553; 3567; 3586; 3618; 3632; 3645; 3671; 3702; 3715; 3732; 3749; 3763; 3780; 3798; 3813; 3841; 3857; 3876; 3898; 3914; 3937; 3956; 3981; 4000; 4020; 4047; 4071; 4104; 4123; 4151; 4165; 4231; 4255; 4270; 4293; 4314; 4331; 4379; 4406; 4420; 4449; 4473; 4506; 4523; 4543; 4556; 4569; 4627; 4654; 4673; 4703; 4728; 4748; 4762; 4787; 4805; 4842; 4880; 4909; 4937; 4951; 4971; 4986; 5007; 5021; 5040; 5058; 5074; 5114; 5134; 5161; 5179; 5200; 5213; 5226; 5243; 5267; 5290; 5322; 5347; 5374; 5396
SgeI	!NNNNNNNNNNNNNCNNG	193	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; 2054; 2071; 2124; 2153; 2195; 2278; 2316; 2352; 2436; 2458; 2490; 2527; 2545; 2564; 2621; 2638; 2655; 2690; 2708; 2728; 2748; 2767; 2791; 2856; 2908; 2964; 2996; 3019; 3036; 3068; 3098; 3119; 3136; 3159; 3194; 3221; 3252; 3274; 3300; 3322; 3341; 3369; 3405; 3424; 3447; 3468; 3486; 3503; 3527; 3560; 3592; 3619; 3645; 3676; 3706; 3723; 3749; 3772; 3793; 3815; 3835; 3855; 3872; 3911; 3930; 3955; 3974; 3994; 4021; 4045; 4078; 4097; 4125; 4147; 4205; 4229; 4248; 4267; 4288; 4305; 4353; 4380; 4400; 4423; 4447; 4480; 4497; 4517; 4543; 4601; 4628; 4647; 4677; 4702; 4722; 4761; 4779; 4816; 4854; 4883; 4911; 4932; 4960; 4981; 5014; 5032; 5088; 5108; 5135; 5153; 5174; 5200; 5217; 5241; 5264; 5296; 5321; 5348; 5370; 5399
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	2070
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2590; 4377; 5170
SimI	!GACCC	8	106; 751; 1187; 1423; 1618; 3871; 4439; 4687
SinI	G!GWCC	5	639; 672; 1214; 3959; 4404
SlaI	C!TCGAG	0	
SmaI	CCC!GGG	1	2076
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	7	365; 606; 837; 1326; 1476; 1653; 3880
SmlI	C!TYRAG	4	3834; 4716; 4993; 5255
SmoI	C!TYRAG	4	3834; 4716; 4993; 5255
SmuI	CCCGCNNNN!	10	93; 119; 286; 1521; 1629; 2765; 3120; 3141; 4337; 4469
SmuI	!NNNNNNGCGGG	7	1818; 2062; 2696; 3566; 4103; 4241; 4388
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3013; 3085; 3848
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 2047; 2193; 2257; 2335; 2361; 2372; 3019; 3091; 3183; 4601
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	3264

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	C!CGC	49	58; 86; 98; 112; 279; 507; 589; 642; 687; 899; 985; 1061; 1234; 1237; 1514; 1555; 1622; 1661; 1778; 1857; 1916; 1950; 1961; 1988; 2067; 2758; 2761; 2775; 2865; 3113; 3125; 3134; 3146; 3156; 3167; 3213; 3352; 3415; 3917; 3962; 4028; 4054; 4179; 4182; 4330; 4462; 4769; 4913; 5409
SsiI	G!CGG	31	370; 403; 528; 781; 1282; 1288; 1758; 1815; 1825; 2031; 2069; 2703; 2730; 2818; 2928; 3509; 3573; 3674; 3677; 3957; 4012; 4110; 4248; 4395; 4535; 4778; 5023; 5144; 5163; 5290; 5318
SspI	AAT!ATT	2	2351; 2904
SspDI	G!GCGCC	1	3442
SspD5I	GGTANNNNNNNN!	6	376; 824; 1643; 1667; 4514; 4630
SspD5I	!NNNNNNNNNTCACC	5	875; 1312; 1938; 2559; 3620
SstI	GAGCT!C	0	
SstII	CCGC!GG	1	2070
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	24	92; 118; 285; 894; 1141; 1153; 1465; 1520; 1528; 1570; 1628; 2081; 2642; 2764; 3119; 3140; 3453; 3856; 3995; 4066; 4336; 4468; 4698; 5136
Sth132I	!NNNNNNNNCCGGG	23	15; 407; 470; 1232; 1316; 1745; 1817; 2061; 2643; 2695; 2796; 3523; 3565; 3598; 4102; 4211; 4240; 4387; 4491; 4522; 4975; 5019; 5227
Sth302II	CC!GG	29	638; 989; 1241; 1298; 1325; 1388; 1448; 1736; 1754; 1861; 1906; 2076; 2086; 2662; 3349; 3426; 3448; 3476; 3607; 3697; 3764; 3945; 4220; 4228; 4320; 4794; 4984; 5010; 5157
StrI	C!TCGAG	0	
StsI	GGATGNNNNNNNNNN!	7	1291; 1774; 2014; 3311; 3768; 3793; 4247
StsI	!NNNNNNNNNNNNNNCATCC	4	1322; 1688; 1970; 3115
StuI	AGG!CCT	1	3264
StyI	C!CWWGG	6	360; 601; 3172; 3265; 3875; 4280
StyD4I	!CCNGG	27	88; 281; 1239; 1323; 1339; 1464; 1576; 1651; 1705; 1752; 1789; 1927; 1940; 2074; 2977; 3032; 3049; 3445; 3605; 3828; 4218; 4407; 4510; 4982; 5200; 5213; 5334
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	17	76; 198; 269; 543; 581; 668; 676; 963; 2063; 2534; 3823; 3939; 4047; 4370; 4861; 5331; 5402
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 1009; 1072; 1276; 1363; 1576; 2506; 2518; 2561; 2671; 3562; 3749; 4530; 4663
TaqI	T!CGA	19	790; 1072; 1345; 1639; 1666; 2011; 2045; 2058; 2592; 3283; 3556; 3712; 3736; 3772; 3934; 4125; 4170; 4425; 5263
TaqII	GACCGANNNNNNNNNN!	3	2463; 3480; 4148
TaqII	!NNNNNNNNNTCGGTC	1	4392
TaqII	CACCCANNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	3	172; 3347; 3939
TasI	!AATT	11	18; 2047; 2193; 2257; 2335; 2361; 2372; 3019; 3091; 3183; 4601
TatI	W!GTACW	6	217; 297; 330; 381; 1267; 1723
TauI	GCSG!C	21	784; 1239; 1818; 1859; 1918; 1963; 2763; 2777; 3215; 3354; 3417; 3512; 3677; 3680; 3919; 4015; 4056; 4184; 4538; 5166; 5321
TfiI	G!AWTC	6	659; 3928; 4062; 4172; 4209; 5387
TliI	C!TCGAG	0	
Tru1I	T!TAA	18	7; 1900; 2022; 2036; 2144; 2205; 2326; 2347; 2358; 2370; 2381; 2398; 2496; 2767; 4586; 4600; 4605; 4657
Tru9I	T!TAA	18	7; 1900; 2022; 2036; 2144; 2205; 2326; 2347; 2358; 2370; 2381; 2398; 2496; 2767; 4586; 4600; 4605; 4657
TscAI	CASTGNN!	6	966; 2289; 3572; 4682; 4953; 4966
TseI	G!CWGC	25	644; 704; 1081; 1088; 1139; 1142; 1300; 1454; 1535; 1952; 1957; 1970; 2219; 2738; 3403; 3504; 3546; 3587; 3680; 4067; 4520; 4746; 4952; 4955; 5020
TsoI	TARCCANNNNNNNNNN!	2	2415; 2762
TsoI	!NNNNNNNNNTGGYTA	3	858; 2220; 3972
Tsp45I	!GTSAC	6	957; 1229; 1478; 2732; 3563; 3869
Tsp509I	!AATT	11	18; 2047; 2193; 2257; 2335; 2361; 2372; 3019; 3091; 3183; 4601
TspDTI	ATGAANNNNNNNNNN!	7	757; 892; 1545; 1777; 2201; 3502; 4206
TspDTI	!NNNNNNNNNTTCAT	5	26; 821; 3920; 4376; 4583

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspEI	!AATT	11	18; 2047; 2193; 2257; 2335; 2361; 2372; 3019; 3091; 3183; 4601
TspGWI	ACGGANNNNNNNNNNN!	1	4318
TspGWI	!NNNNNNNNNTCCGT	1	1163
TspMI	C!CCGGG	1	2074
TspRI	CASTGNN!	6	966; 2289; 3572; 4682; 4953; 4966
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	3	632; 1005; 3561
Tth111II	CAARCANNNNNNNNNN!	2	1041; 4770
Tth111II	!NNNNNNNNNTGYTTG	5	837; 953; 3878; 4738; 4777
UnbI	!GGNCC	14	82; 275; 638; 671; 1130; 1213; 1467; 2071; 2549; 3958; 4403; 4449; 4507; 4540
Van91I	CCANNNN!NTGG	1	764
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	1	5047
VpaK11AI	!GGWCC	5	638; 671; 1213; 3958; 4403
VpaK11BI	G!GWCC	5	639; 672; 1214; 3959; 4404
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	2047; 2257; 2361; 2372
XbaI	T!CTAGA	1	2090
XceI	RCATG!Y	4	3013; 3085; 3848; 5365
XcmI	CCANNNNN!NNNNTGG	1	605
XhoI	C!TCGAG	0	
XhoII	R!GATCY	11	585; 1057; 2078; 2087; 3614; 3860; 4252; 4611; 4623; 4709; 4720
XmaI	C!CCGGG	1	2074
XmaJI	C!CTAGG	2	3265; 4280
XmiI	GT!MKAC	1	2058
XmnI	GAANN!NNTTC	1	1506
XspI	C!TAG	8	592; 2091; 2292; 2710; 3266; 4281; 4615; 4868
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3015; 3087; 5418