

pHcRed-Tandem-C1 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2192; 2397
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2480; 3436; 5225
AatI	AGG!CCT	1	3230
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	2024
AccII	CG!CG	18	60; 1166; 1862; 2035; 2297; 2333; 2709; 2729; 2753; 2784; 3475; 3776; 4214; 4298; 4361; 4430; 4703; 5284
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	3	643; 1339; 3511
Acc36I	ACCTGCNNNN!	4	1286; 1982; 3677; 4127
Acc36I	!NNNNNNNNGCAGGT	1	3296
Acc65I	G!GTACC	1	2029
AccB1I	G!GYRCC	15	465; 664; 724; 757; 982; 1115; 1360; 1420; 1453; 1678; 1811; 2029; 2562; 3408; 3443
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	2833; 4022
AccBSI	GAG!CGG	6	620; 1025; 1316; 1721; 2669; 4076
AceIII	CAGCTCNNNNNNN!	1	2365
AceIII	!NNNNNNNNGAGCTG	3	552; 1231; 1927
Acil	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 833; 923; 995; 1529; 1619; 1691; 2033; 2724; 2727; 2741; 2831; 3079; 3091; 3100; 3112; 3122; 3133; 3179; 3318; 3381; 3883; 3928; 3994; 4020; 4145; 4148; 4296; 4428; 4735; 4879; 5375
Acil	G!CGG	36	370; 403; 528; 620; 911; 1025; 1028; 1079; 1218; 1316; 1607; 1721; 1724; 1775; 1914; 2035; 2669; 2696; 2784; 2894; 3475; 3539; 3640; 3643; 3923; 3978; 4076; 4214; 4361; 4501; 4744; 4989; 5110; 5129; 5256; 5284
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	9	2052; 2061; 3277; 3588; 3834; 4226; 4585; 4683; 4769
AcIWI	!NNNNNGATCC	8	580; 834; 1530; 2039; 3653; 4197; 4584; 4681
AcoI	Y!GGCCR	8	675; 1080; 1371; 1776; 3315; 3489; 3880; 3907
AcsI	R!AATTY	4	2013; 2223; 2327; 2338
AcuI	CTGAAGNNNNNNNNNNNNNNN!	6	649; 1120; 1345; 1816; 3555; 3987
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4785
AcvI	CAC!GTG	2	747; 1443
AcyI	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3409; 4111; 4190
AdeI	CACNNN!GTG	1	2525
AfaI	GT!AC	20	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1237; 1249; 1270; 1351; 1501; 1753; 1933; 1945; 1966; 2031; 3715
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	30	49; 630; 721; 1000; 1066; 1104; 1145; 1202; 1326; 1417; 1696; 1762; 1800; 1841; 1898; 2421; 2747; 3139; 3390; 3934; 4215; 4247; 4379; 4414; 4464; 4496; 4849; 5128; 5294; 5312
AfII	C!TTAAG	0	
AfIII	A!CRYGT	2	2295; 5327
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	9	687; 855; 1383; 1551; 2820; 2864; 2874; 3287; 4863
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	19	88; 281; 785; 880; 929; 941; 1481; 1576; 1625; 1637; 2943; 2998; 3015; 3794; 4373; 4476; 5166; 5179; 5300
AjuI	GAANNNNNNTTGGNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNCCAANNNNNNTTC	0	
AjuI	CCAANNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNTTGG	0	
AleI	CACNN!NNGTG	3	613; 1048; 1744
AlfI	GCANNNNTTGCNNNNNNNNNNNN!	2	2983; 3055
AlfI	!NNNNNNNNNGCANNNNNTGTC	2	2949; 3021
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	2491
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	1	2459
AluI	AG!CT	20	566; 863; 1142; 1245; 1559; 1838; 1941; 2002; 2008; 2188; 2355; 2612; 2907; 3195; 3515; 3973; 4770; 5027; 5073; 5163
AluBI	AG!CT	20	566; 863; 1142; 1245; 1559; 1838; 1941; 2002; 2008; 2188; 2355; 2612; 2907; 3195; 3515; 3973; 4770; 5027; 5073; 5163
AlwI	GGATCNNNN!	9	2052; 2061; 3277; 3588; 3834; 4226; 4585; 4683; 4769
AlwI	!NNNNNGATCC	8	580; 834; 1530; 2039; 3653; 4197; 4584; 4681
Alw21I	GWGCW!C	8	827; 980; 1523; 1676; 2004; 3522; 3712; 5017
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	4	2833; 3251; 4270; 4398
Alw44I	G!TGCAC	5	823; 976; 1519; 1672; 5013
AlwNI	CAGNN!CTG	4	1215; 1911; 4510; 4918
Ama87I	C!YCGRG	9	868; 1060; 1282; 1303; 1564; 1756; 1978; 1997; 2040
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	2041
ApaBI	GCANNNNN!TGC	3	2977; 3049; 4511
ApaLI	G!TGCAC	5	823; 976; 1519; 1672; 5013
ApeKI	G!CWGC	19	797; 809; 1215; 1493; 1505; 1911; 2185; 2704; 3369; 3470; 3512; 3553; 3646; 4033; 4486; 4712; 4918; 4921; 4986
ApoI	R!AATTY	4	2013; 2223; 2327; 2338
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	3924
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	3718; 4371; 5209
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	3808
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	4	785; 1058; 1481; 1754
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	1	3237
AquIII	!NNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	5	846; 972; 1542; 1668; 3979
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	2	1254; 1950
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	2	1222; 1918
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 840; 960; 1122; 1298; 1536; 1656; 1818; 2045; 2054; 2067; 3247; 3251; 3270; 3581; 3659; 3740; 3749; 3827; 4203; 4219; 4578; 4590; 4668; 4676; 4687; 4762
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3527
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	2029
AspA2I	C!CTAGG	2	3231; 4246
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	29	597; 644; 760; 1166; 1168; 1340; 1456; 1862; 1864; 2675; 2683; 2709; 2731; 2740; 2753; 2784; 3403; 3411; 3475; 3512; 3778; 4038; 4214; 4300; 4703; 4812; 4986; 5086; 5153
AspS9I	G!GNCC	19	83; 276; 789; 815; 1003; 1095; 1263; 1485; 1511; 1699; 1791; 1959; 2038; 2516; 3925; 4370; 4416; 4474; 4507
AssI	AGT!ACT	2	1237; 1933
AsuII	TT!CGAA	2	2011; 4091
AsuC2I	CC!SGG	12	1181; 1266; 1304; 1305; 1877; 1962; 2041; 2042; 3413; 3573; 4186; 4950
AsuHPI	GGTGANNNNNNNN!	7	376; 627; 981; 1323; 1677; 4480; 4596
AsuHPI	!NNNNNNNTCACC	6	870; 1185; 1566; 1881; 2526; 3587
AsuNHI	G!CTAGC	1	591

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AvaI	C!YCGRG	9	868; 1060; 1282; 1303; 1564; 1756; 1978; 1997; 2040
AvaII	G!GWCC	4	815; 1511; 3925; 4370
AviII	TGC!GCA	3	643; 1339; 3511
AvrII	C!CTAGG	2	3231; 4246
AxyI	CC!TNAGG	2	2889; 4521
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	10	667; 827; 980; 1363; 1523; 1676; 2041; 3355; 3448; 5017
BalI	TGG!CCA	1	3491
BamHI	G!GATCC	1	2044
BanI	G!GYRCC	15	465; 664; 724; 757; 982; 1115; 1360; 1420; 1453; 1678; 1811; 2029; 2562; 3408; 3443
BanII	GRGCY!C	7	1040; 1736; 2004; 2041; 2600; 3774; 4484
BanIII	AT!CGAT	1	3249
BarI	GAAGNNNNNTACNNNNNNNNNN!	2	1251; 1947
BarI	!NNNNNNNGTANNNNNCTTC	0	
BarI	GTANNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	2	1219; 1915
BasI	CCANNN!NTGG	0	
BauI	C!ACGAG	2	4127; 5154
BauI	C!TCGTG	1	4001
BbeI	GGCGC!C	3	761; 1457; 3412
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	2	747; 1443
BbsI	GAAGACNN!	0	
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	2979; 3051; 3814
BbvI	GCAGCNNNNNN!	8	821; 1517; 2197; 3482; 3524; 4045; 4498; 4998
BbvI	!NNNNNNNNNNNGCTGC	10	784; 1202; 1480; 1898; 2691; 3356; 3540; 3633; 4699; 4905
Bbv12I	GWGCW!C	8	827; 980; 1523; 1676; 2004; 3522; 3712; 5017
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	4	2539; 3103; 3629; 4131
BccI	!NNNNNGATGG	6	1086; 1302; 1782; 2507; 3287; 3715
BceAI	ACGGCNNNNNNNNNN!	16	690; 723; 822; 924; 996; 1017; 1083; 1386; 1419; 1518; 1620; 1692; 1713; 1779; 3835; 4322
BceAI	!NNNNNNNNNNNGCCGT	5	1144; 1840; 2550; 3368; 4827
Bcefl	ACGGCNNNNNNNNNN!	16	690; 723; 822; 924; 996; 1017; 1083; 1386; 1419; 1518; 1620; 1692; 1713; 1779; 3835; 4322
Bcefl	!NNNNNNNNNNNGCCGT	5	1145; 1841; 2551; 3369; 4828
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	4	699; 801; 1395; 1497
BcgI	GCANNNNNNTGCNNNNNNNNNN!	4	733; 835; 1429; 1531
BcgI	!NNNNNNNNNNNGCANNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2838; 3628; 5129
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2066
BcnI	CC!SGG	12	1181; 1266; 1304; 1305; 1877; 1962; 2041; 2042; 3413; 3573; 4186; 4950
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	2089; 5262
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	2	2055; 5228
BfaI	C!TAG	8	592; 2057; 2258; 2676; 3232; 4247; 4581; 4834
BfiI	ACTGGGNNNN!	1	3358
BfiI	!NNNCCCAGT	2	289; 3110
BfmI	C!TRYAG	4	2018; 2744; 4871; 5062
BfoI	RGCGC!Y	7	598; 761; 1457; 2676; 2684; 3412; 5087
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2838; 3628; 5129
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	1286; 1982; 3677; 4127
BfuAI	!NNNNNNNNNGCAGGT	1	3296

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BfuCI	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2044; 2053; 2066; 3246; 3250; 3269; 3580; 3658; 3739; 3748; 3826; 4202; 4218; 4577; 4589; 4667; 4675; 4686; 4761
BglI	GCCNNNN!NGGC	8	90; 212; 283; 947; 1261; 1643; 1957; 3184
BglII	A!GATCT	1	1297
BisI	GC!NGC	44	621; 798; 810; 912; 1026; 1029; 1080; 1216; 1317; 1494; 1506; 1608; 1722; 1725; 1776; 1912; 2186; 2705; 2727; 2741; 3179; 3318; 3370; 3381; 3471; 3476; 3513; 3554; 3641; 3644; 3647; 3883; 3979; 4020; 4034; 4148; 4487; 4502; 4713; 4919; 4922; 4987; 5130; 5285
BlnI	C!CTAGG	2	3231; 4246
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	44	622; 799; 811; 913; 1027; 1030; 1081; 1217; 1318; 1495; 1507; 1609; 1723; 1726; 1777; 1913; 2187; 2706; 2728; 2742; 3180; 3319; 3371; 3382; 3472; 3477; 3514; 3555; 3642; 3645; 3648; 3884; 3980; 4021; 4035; 4149; 4488; 4503; 4714; 4920; 4923; 4988; 5131; 5286
BmcAI	AGT!ACT	2	1237; 1933
Bme18I	G!GWCC	4	815; 1511; 3925; 4370
Bme1390I	CC!NGG	31	90; 283; 787; 882; 931; 943; 1181; 1266; 1304; 1305; 1483; 1578; 1627; 1639; 1877; 1962; 2041; 2042; 2945; 3000; 3017; 3413; 3573; 3796; 4186; 4375; 4478; 4950; 5168; 5181; 5302
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	9	868; 1060; 1282; 1303; 1564; 1756; 1978; 1997; 2040
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	19	84; 277; 790; 816; 1004; 1096; 1264; 1486; 1512; 1700; 1792; 1960; 2039; 2517; 3926; 4371; 4417; 4475; 4508
BmiI	GGN!NCC	35	467; 666; 726; 759; 791; 984; 1005; 1037; 1117; 1207; 1362; 1422; 1455; 1487; 1680; 1701; 1733; 1813; 1903; 2031; 2039; 2046; 2564; 2585; 2597; 2788; 2949; 3021; 3410; 3445; 4293; 4372; 4417; 5260; 5299
BmrI	ACTGGGNNNNN!	1	3358
BmrI	!NNNNCCCAGT	2	289; 3110
BmrFI	CC!NGG	31	90; 283; 787; 882; 931; 943; 1181; 1266; 1304; 1305; 1483; 1578; 1627; 1639; 1877; 1962; 2041; 2042; 2945; 3000; 3017; 3413; 3573; 3796; 4186; 4375; 4478; 4950; 5168; 5181; 5302
BmsI	GCATCNNNNN!	10	653; 923; 1349; 1619; 2225; 2988; 3060; 3708; 3772; 4047
BmsI	!NNNNNNNNNGATGC	7	357; 1202; 1898; 3367; 3622; 3838; 5230
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	3358
BmuI	!NNNNCCCAGT	2	289; 3110
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNNN!	2	3198; 4097
BpI	!NNNNNNNNNGAGNNNNNCTC	2	3166; 4065
BpmI	CTGGAGNNNNNNNNNNNNNNNNN!	3	964; 1660; 4249
BpmI	!NNNNNNNNNNNNNNNCTCCAG	3	1192; 1888; 4192
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	2011; 4091
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNNN!	2	4703; 5242
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	1988; 3785; 4944
BpuMI	CC!SGG	12	1181; 1266; 1304; 1305; 1877; 1962; 2041; 2042; 3413; 3573; 4186; 4950
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	4398
Bsa29I	AT!CGAT	1	3249
BsaAI	YAC!GTR	5	340; 747; 1443; 2525; 3713
BsaBI	GATNN!NNATC	2	2071; 3268
BsaHI	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3409; 4111; 4190

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BsaJI	C!CNGGG	27	360; 611; 752; 869; 881; 1046; 1303; 1448; 1565; 1577; 1742; 2033; 2040; 2943; 3015; 3138; 3173; 3182; 3231; 3572; 3841; 4246; 4373; 4374; 4476; 4477; 5167
BsaMI	GAATGCN!	1	2160
BsaMI	G!CATTC	1	2253
BsaWI	W!CCGGW	8	600; 1145; 1841; 2050; 3440; 4284; 4974; 5121
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2489
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2459
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	2410; 4317
Bsc4I	CCNNNNN!NNGG	30	49; 630; 721; 1000; 1066; 1104; 1145; 1202; 1326; 1417; 1696; 1762; 1800; 1841; 1898; 2421; 2747; 3139; 3390; 3934; 4215; 4247; 4379; 4414; 4464; 4496; 4849; 5128; 5294; 5312
BscAI	GCATCNNNN!	10	652; 922; 1348; 1618; 2224; 2987; 3059; 3707; 3771; 4046
BscAI	!NNNNNNGATGC	7	360; 1205; 1901; 3370; 3625; 3841; 5233
BseI	ACTGGN!	3	3353; 3554; 4800
BseI	C!CAGT	5	295; 2438; 3116; 4912; 4925
BseI	GATNN!NNATC	2	2071; 3268
Bse2II	CC!TNAGG	2	2889; 4521
Bse118I	R!CCGGY	9	600; 721; 1112; 1417; 1808; 2626; 3728; 3909; 4192
BseAI	T!CCGGA	0	
BseBI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2945; 3000; 3017; 3796; 4375; 4478; 5168; 5181; 5302
BseCI	AT!CGAT	1	3249
BseDI	C!CNGGG	27	360; 611; 752; 869; 881; 1046; 1303; 1448; 1565; 1577; 1742; 2033; 2040; 2943; 3015; 3138; 3173; 3182; 3231; 3572; 3841; 4246; 4373; 4374; 4476; 4477; 5167
Bse3DI	GCAATGNN!	1	3642
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	1313; 3269; 3726; 3751; 4205
BseGI	!CATCC	7	782; 914; 1199; 1478; 1610; 1895; 3095
BseJI	GATNN!NNATC	2	2071; 3268
BseLI	CCNNNNN!NNGG	30	49; 630; 721; 1000; 1066; 1104; 1145; 1202; 1326; 1417; 1696; 1762; 1800; 1841; 1898; 2421; 2747; 3139; 3390; 3934; 4215; 4247; 4379; 4414; 4464; 4496; 4849; 5128; 5294; 5312
BseMI	GCAATGNN!	1	3642
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	4535
BseMII	!NNNNNNNCTGAG	5	2880; 3182; 4063; 4635; 5044
BseNI	ACTGGN!	3	3353; 3554; 4800
BseNI	C!CAGT	5	295; 2438; 3116; 4912; 4925
BsePI	G!CGCGC	2	1164; 1860
BseRI	GAGGAGNNNNNNNNNN!	1	3227
BseRI	!NNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	10	667; 827; 980; 1363; 1523; 1676; 2041; 3355; 3448; 5017
BseXI	GCAGCNNNNNNNN!	8	821; 1517; 2197; 3482; 3524; 4045; 4498; 4998
BseXI	!NNNNNNNNNNNGCTGC	10	784; 1202; 1480; 1898; 2691; 3356; 3540; 3633; 4699; 4905
BseX3I	C!GGCCG	3	1080; 1776; 3315
BseYI	C!CCAGC	5	1039; 1735; 2952; 3024; 5023
BseYI	G!CTGGG	3	1031; 1727; 3913
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	18	60; 1166; 1862; 2035; 2297; 2333; 2709; 2729; 2753; 2784; 3475; 3776; 4214; 4298; 4361; 4430; 4703; 5284
Bsh1285I	CGRY!CG	7	605; 1083; 1113; 1779; 1809; 3318; 4993
BshFI	GG!CC	40	84; 277; 623; 677; 790; 1004; 1082; 1096; 1159; 1255; 1264; 1291; 1319; 1373; 1486; 1700; 1778; 1792; 1855; 1951; 1960; 1987; 2039; 2375; 2517; 3172; 3178; 3187; 3230; 3317; 3491; 3882; 3909; 4418; 4475; 4508; 4853; 5287; 5305; 5316
BshNI	G!GYRCC	15	465; 664; 724; 757; 982; 1115; 1360; 1420; 1453; 1678; 1811; 2029; 2562; 3408; 3443
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	3249
BsiEI	CGRY!CG	7	605; 1083; 1113; 1779; 1809; 3318; 4993

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BsiHKAI	GWGCW!C	8	827; 980; 1523; 1676; 2004; 3522; 3712; 5017
BsiHKCI	C!YCGRG	9	868; 1060; 1282; 1303; 1564; 1756; 1978; 1997; 2040
BsiSI	C!CGG	34	601; 722; 1083; 1113; 1146; 1181; 1203; 1266; 1304; 1418; 1779; 1809; 1842; 1877; 1899; 1962; 2041; 2051; 2627; 3314; 3391; 3413; 3441; 3572; 3662; 3729; 3910; 4185; 4193; 4285; 4759; 4949; 4975; 5122
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	30	49; 630; 721; 1000; 1066; 1104; 1145; 1202; 1326; 1417; 1696; 1762; 1800; 1841; 1898; 2421; 2747; 3139; 3390; 3934; 4215; 4247; 4379; 4414; 4464; 4496; 4849; 5128; 5294; 5312
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3560; 4092; 4201
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2925; 2997; 3061; 4356
BsmI	GAATGCN!	1	2160
BsmI	G!CATTC	1	2253
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	4	2833; 3251; 4270; 4398
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3560; 4092; 4201
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2925; 2997; 3061; 4356
BsnI	GG!CC	40	84; 277; 623; 677; 790; 1004; 1082; 1096; 1159; 1255; 1264; 1291; 1319; 1373; 1486; 1700; 1778; 1792; 1855; 1951; 1960; 1987; 2039; 2375; 2517; 3172; 3178; 3187; 3230; 3317; 3491; 3882; 3909; 4418; 4475; 4508; 4853; 5287; 5305; 5316
Bso3II	GGTCTCN!	0	
Bso3II	!NNNNNGAGACC	1	4398
BsoBI	C!YCGRG	9	868; 1060; 1282; 1303; 1564; 1756; 1978; 1997; 2040
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 611; 3138; 3841
Bsp24I	GACNNNNNTGGNNNNNNNNNNNN!	2	289; 4212
Bsp24I	!NNNNNNCCANNNNNGTC	2	4633; 4811
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	4665; 4843
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4180
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	2011; 4091
Bsp120I	G!GGCCC	1	2037
Bsp143I	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2044; 2053; 2066; 3246; 3250; 3269; 3580; 3658; 3739; 3748; 3826; 4202; 4218; 4577; 4589; 4667; 4675; 4686; 4761
Bsp1286I	GDGCH!C	18	667; 827; 980; 1040; 1363; 1523; 1676; 1736; 2004; 2041; 2600; 3355; 3448; 3522; 3712; 3774; 4484; 5017
Bsp1407I	T!GTACA	2	653; 1349
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 833; 923; 995; 1529; 1619; 1691; 2033; 2724; 2727; 2741; 2831; 3079; 3091; 3100; 3112; 3122; 3133; 3179; 3318; 3381; 3883; 3928; 3994; 4020; 4145; 4148; 4296; 4428; 4735; 4879; 5375
BspACI	G!CGG	36	370; 403; 528; 620; 911; 1025; 1028; 1079; 1218; 1316; 1607; 1721; 1724; 1775; 1914; 2035; 2669; 2696; 2784; 2894; 3475; 3539; 3640; 3643; 3923; 3978; 4076; 4214; 4361; 4501; 4744; 4989; 5110; 5129; 5256; 5284
BspCNI	CTCAGNNNNNNNNN!	1	4534
BspCNI	!NNNNNNNCTGAG	5	2881; 3183; 4064; 4636; 5045
BspDI	AT!CGAT	1	3249
BspD6I	GACTCNNNN!	4	418; 2482; 4088; 4965
BspD6I	!NNNNNGAGTC	2	2445; 2877
BspEI	T!CCGGA	0	
BspFNI	CG!CG	18	60; 1166; 1862; 2035; 2297; 2333; 2709; 2729; 2753; 2784; 3475; 3776; 4214; 4298; 4361; 4430; 4703; 5284
BspHI	T!CATGA	2	2835; 4607
BspLI	GGN!NCC	35	467; 666; 726; 759; 791; 984; 1005; 1037; 1117; 1207; 1362; 1422; 1455; 1487; 1680; 1701; 1733; 1813; 1903; 2031; 2039; 2046; 2564; 2585; 2597; 2788; 2949; 3021; 3410; 3445; 4293; 4372; 4417; 5260; 5299
BspMI	ACCTGCNNNN!	4	1286; 1982; 3677; 4127
BspMI	!NNNNNNNGCAGGT	1	3296
BspOI	GCTAG!C	1	595

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspPI	GGATCNNNN!	9	2052; 2061; 3277; 3588; 3834; 4226; 4585; 4683; 4769
BspPI	!NNNNNGATCC	8	580; 834; 1530; 2039; 3653; 4197; 4584; 4681
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3753; 3963
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	2011; 4091
BspT107I	G!GYRCC	15	465; 664; 724; 757; 982; 1115; 1360; 1420; 1453; 1678; 1811; 2029; 2562; 3408; 3443
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	4398
BsrI	ACTGGN!	3	3353; 3554; 4800
BsrI	C!CAGT	5	295; 2438; 3116; 4912; 4925
BsrBI	CCG!CTC	2	2833; 4022
BsrBI	GAG!CGG	6	620; 1025; 1316; 1721; 2669; 4076
BsrDI	GCAATGNN!	1	3642
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	9	600; 721; 1112; 1417; 1808; 2626; 3728; 3909; 4192
BsrGI	T!GTACA	2	653; 1349
BsrSI	ACTGGN!	3	3353; 3554; 4800
BsrSI	C!CAGT	5	295; 2438; 3116; 4912; 4925
BssAI	R!CCGGY	9	600; 721; 1112; 1417; 1808; 2626; 3728; 3909; 4192
BssECI	C!CNNGG	27	360; 611; 752; 869; 881; 1046; 1303; 1448; 1565; 1577; 1742; 2033; 2040; 2943; 3015; 3138; 3173; 3182; 3231; 3572; 3841; 4246; 4373; 4374; 4476; 4477; 5167
BssHII	G!CGCGC	2	1164; 1860
BssKI	!CCNGG	31	88; 281; 785; 880; 929; 941; 1179; 1264; 1302; 1303; 1481; 1576; 1625; 1637; 1875; 1960; 2039; 2040; 2943; 2998; 3015; 3411; 3571; 3794; 4184; 4373; 4476; 4948; 5166; 5179; 5300
BssMI	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2044; 2053; 2066; 3246; 3250; 3269; 3580; 3658; 3739; 3748; 3826; 4202; 4218; 4577; 4589; 4667; 4675; 4686; 4761
BssNI	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3409; 4111; 4190
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4127; 5154
BssSI	C!TCGTG	1	4001
BssTII	C!CWWGG	6	360; 611; 3138; 3231; 3841; 4246
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2876; 3753; 3963
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3409; 4111; 4190
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	2976; 3048; 4510
BstAUI	T!GTACA	2	653; 1349
BstBI	TT!CGAA	2	2011; 4091
Bst2BI	C!ACGAG	2	4127; 5154
Bst2BI	C!TCGTG	1	4001
BstBAI	YAC!GTR	5	340; 747; 1443; 2525; 3713
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 669; 1365; 2029; 2500; 3789; 3905; 4013; 4336; 4827; 5297; 5368
BstC8I	GCN!NGC	38	86; 279; 593; 625; 723; 1072; 1166; 1257; 1321; 1419; 1768; 1862; 1953; 2037; 2628; 2671; 2685; 2958; 2977; 3030; 3049; 3303; 3489; 3708; 3774; 3780; 3812; 3853; 3857; 3911; 4194; 4381; 4428; 4484; 4506; 4717; 5277; 5314
BstDEI	C!TNAG	6	2889; 3191; 4072; 4521; 4644; 5053
BstDSI	C!CRYGG	5	360; 611; 2033; 3138; 3841
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	2	628; 1324
BstF5I	GGATGNN!	5	1313; 3269; 3726; 3751; 4205
BstF5I	!CATCC	7	782; 914; 1199; 1478; 1610; 1895; 3095
BstFNI	CG!CG	18	60; 1166; 1862; 2035; 2297; 2333; 2709; 2729; 2753; 2784; 3475; 3776; 4214; 4298; 4361; 4430; 4703; 5284
BstH2I	RGCGC!Y	7	598; 761; 1457; 2676; 2684; 3412; 5087
BstHHI	GCG!C	29	597; 644; 760; 1166; 1168; 1340; 1456; 1862; 1864; 2675; 2683; 2709; 2731; 2740; 2753; 2784; 3403; 3411; 3475; 3512; 3778; 4038; 4214; 4300; 4703; 4812; 4986; 5086; 5153

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstKTI	GAT!C	27	588; 842; 962; 1124; 1300; 1538; 1658; 1820; 2047; 2056; 2069; 3249; 3253; 3272; 3583; 3661; 3742; 3751; 3829; 4205; 4221; 4580; 4592; 4670; 4678; 4689; 4764
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	4	2833; 3251; 4270; 4398
BstMBI	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2044; 2053; 2066; 3246; 3250; 3269; 3580; 3658; 3739; 3748; 3826; 4202; 4218; 4577; 4589; 4667; 4675; 4686; 4761
BstMCI	CGRY!CG	7	605; 1083; 1113; 1779; 1809; 3318; 4993
BstMWI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 731; 806; 947; 1076; 1148; 1165; 1212; 1261; 1427; 1502; 1643; 1772; 1844; 1861; 1908; 1957; 2636; 2666; 2693; 2735; 2976; 3048; 3099; 3178; 3400; 3484; 3507; 3646; 3769; 3852; 4119; 4306; 4510; 4709; 5281
BstNI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2945; 3000; 3017; 3796; 4375; 4478; 5168; 5181; 5302
BstNSI	RCATG!Y	4	2979; 3051; 3814; 5331
BstOI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2945; 3000; 3017; 3796; 4375; 4478; 5168; 5181; 5302
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	31	88; 281; 785; 880; 929; 941; 1179; 1264; 1302; 1303; 1481; 1576; 1625; 1637; 1875; 1960; 2039; 2040; 2943; 2998; 3015; 3411; 3571; 3794; 4184; 4373; 4476; 4948; 5166; 5179; 5300
BstSFI	C!TRYAG	4	2018; 2744; 4871; 5062
BstSLI	GKGC!C	10	667; 827; 980; 1363; 1523; 1676; 2041; 3355; 3448; 5017
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	18	60; 1166; 1862; 2035; 2297; 2333; 2709; 2729; 2753; 2784; 3475; 3776; 4214; 4298; 4361; 4430; 4703; 5284
Bst2UI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2945; 3000; 3017; 3796; 4375; 4478; 5168; 5181; 5302
BstV1I	GCAGC!NNNNNNN!	8	821; 1517; 2197; 3482; 3524; 4045; 4498; 4998
BstV1I	!NNNNNNNNNNNGCTGC	10	784; 1202; 1480; 1898; 2691; 3356; 3540; 3633; 4699; 4905
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 839; 1297; 1535; 2044; 2053; 3580; 3826; 4218; 4577; 4589; 4675; 4686
BstYI	R!GATCY	13	585; 839; 1297; 1535; 2044; 2053; 3580; 3826; 4218; 4577; 4589; 4675; 4686
BstZI	C!GGCCG	3	1080; 1776; 3315
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2838; 3628; 5129
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3249
Bsu36I	CC!TNAGG	2	2889; 4521
BsuRI	GG!CC	40	84; 277; 623; 677; 790; 1004; 1082; 1096; 1159; 1255; 1264; 1291; 1319; 1373; 1486; 1700; 1778; 1792; 1855; 1951; 1960; 1987; 2039; 2375; 2517; 3172; 3178; 3187; 3230; 3317; 3491; 3882; 3909; 4418; 4475; 4508; 4853; 5287; 5305; 5316
BsuTUI	AT!CGAT	1	3249
BtgI	C!CRYGG	5	360; 611; 2033; 3138; 3841
BtgZI	GCGATGNNNNNNNNN!	2	2526; 3861
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 3680; 4024
BthCI	GCNG!C	44	623; 800; 812; 914; 1028; 1031; 1082; 1218; 1319; 1496; 1508; 1610; 1724; 1727; 1778; 1914; 2188; 2707; 2729; 2743; 3181; 3320; 3372; 3383; 3473; 3478; 3515; 3556; 3643; 3646; 3649; 3885; 3981; 4022; 4036; 4150; 4489; 4504; 4715; 4921; 4924; 4989; 5132; 5287
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2248
BtsCI	GGATGNN!	5	1313; 3269; 3726; 3751; 4205
BtsCI	!CATCC	7	782; 914; 1199; 1478; 1610; 1895; 3095
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	1286; 1982; 3677; 4127
BveI	!NNNNNNNNGCAGGT	1	3296

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cac8I	GCN!NGC	38	86; 279; 593; 625; 723; 1072; 1166; 1257; 1321; 1419; 1768; 1862; 1953; 2037; 2628; 2671; 2685; 2958; 2977; 3030; 3049; 3303; 3489; 3708; 3774; 3780; 3812; 3853; 3857; 3911; 4194; 4381; 4428; 4484; 4506; 4717; 5277; 5314
CaiI	CAGNNN!CTG	4	1215; 1911; 4510; 4918
CciI	T!CATGA	2	2835; 4607
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	352; 3698; 3703; 3901; 4042
CdiI	C!GATG	2	2512; 3847
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5281
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3070; 3112
CelII	GC!TNAGC	0	
CfoI	GCG!C	29	597; 644; 760; 1166; 1168; 1340; 1456; 1862; 1864; 2675; 2683; 2709; 2731; 2740; 2753; 2784; 3403; 3411; 3475; 3512; 3778; 4038; 4214; 4300; 4703; 4812; 4986; 5086; 5153
CfrI	Y!GGCCR	8	675; 1080; 1371; 1776; 3315; 3489; 3880; 3907
Cfr9I	C!CCGGG	2	1303; 2040
Cfr10I	R!CCGGY	9	600; 721; 1112; 1417; 1808; 2626; 3728; 3909; 4192
Cfr13I	G!GNCC	19	83; 276; 789; 815; 1003; 1095; 1263; 1485; 1511; 1699; 1791; 1959; 2038; 2516; 3925; 4370; 4416; 4474; 4507
Cfr42I	CCGC!GG	1	2036
ChaI	GATC!	27	589; 843; 963; 1125; 1301; 1539; 1659; 1821; 2048; 2057; 2070; 3250; 3254; 3273; 3584; 3662; 3743; 3752; 3830; 4206; 4222; 4581; 4593; 4671; 4679; 4690; 4765
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	3226; 4666; 4766; 4844
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2893; 2988; 4180; 4730; 5285
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2927; 3022; 4214; 4764; 5319
CjeI	!NNNNNNNNCCANNNNNNGT	4	3192; 4632; 4732; 4810
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	4	1317; 2013; 4666; 4844
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 4180; 4779
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 4213; 4812
CjePI	!NNNNNNNNCCANNNNNNNNTC	4	1284; 1980; 4633; 4811
ClaI	AT!CGAT	1	3249
CpoI	CG!GWCCG	1	3925
CseI	GACGCNNNNN!	3	526; 4119; 4198
CseI	!NNNNNNNNNNNGCGTC	3	2742; 4637; 5215
CsiI	A!CCWGGT	1	2998
CspI	CG!GWCCG	1	3925
Csp6I	G!TAC	20	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1236; 1248; 1269; 1350; 1500; 1752; 1932; 1944; 1965; 2030; 3714
Csp45I	TT!CGAA	2	2011; 4091
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	4	656; 1352; 2689; 4298
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	22	301; 361; 612; 657; 735; 1176; 1353; 1431; 1872; 2836; 2976; 3048; 3139; 3280; 3625; 3811; 3842; 3868; 4224; 4608; 5328; 5379
CviJI	RG!CY	112	42; 84; 93; 277; 566; 623; 677; 790; 863; 875; 941; 1004; 1031; 1038; 1082; 1096; 1142; 1159; 1184; 1206; 1245; 1255; 1264; 1291; 1319; 1373; 1486; 1559; 1571; 1637; 1700; 1727; 1734; 1778; 1792; 1838; 1855; 1880; 1902; 1941; 1951; 1960; 1987; 2002; 2008; 2039; 2078; 2188; 2355; 2375; 2517; 2598; 2612; 2626; 2907; 2948; 3020; 3143; 3172; 3178; 3187; 3195; 3218; 3230; 3236; 3317; 3334; 3342; 3369; 3394; 3478; 3487; 3491; 3515; 3553; 3629; 3646; 3665; 3728; 3772; 3782; 3799; 3882; 3909; 3913; 3950; 3973; 3989; 4169; 4196; 4257; 4379; 4418; 4475; 4482; 4489; 4508; 4519; 4770; 4799; 4842; 4853; 4918; 4997; 5022; 5027; 5073; 5163; 5261; 5287; 5305; 5316

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	112	42; 84; 93; 277; 566; 623; 677; 790; 863; 875; 941; 1004; 1031; 1038; 1082; 1096; 1142; 1159; 1184; 1206; 1245; 1255; 1264; 1291; 1319; 1373; 1486; 1559; 1571; 1637; 1700; 1727; 1734; 1778; 1792; 1838; 1855; 1880; 1902; 1941; 1951; 1960; 1987; 2002; 2008; 2039; 2078; 2188; 2355; 2375; 2517; 2598; 2612; 2626; 2907; 2948; 3020; 3143; 3172; 3178; 3187; 3195; 3218; 3230; 3236; 3317; 3334; 3342; 3369; 3394; 3478; 3487; 3491; 3515; 3553; 3629; 3646; 3665; 3728; 3772; 3782; 3799; 3882; 3909; 3913; 3950; 3973; 3989; 4169; 4196; 4257; 4379; 4418; 4475; 4482; 4489; 4508; 4519; 4770; 4799; 4842; 4853; 4918; 4997; 5022; 5027; 5073; 5163; 5261; 5287; 5305; 5316
CviQI	G!TAC	20	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1236; 1248; 1269; 1350; 1500; 1752; 1932; 1944; 1965; 2030; 3714
DdeI	C!TNAG	6	2889; 3191; 4072; 4521; 4644; 5053
DinI	GGC!GCC	3	759; 1455; 3410
DpnI	GA!TC	27	587; 841; 961; 1123; 1299; 1537; 1657; 1819; 2046; 2055; 2068; 3248; 3252; 3271; 3582; 3660; 3741; 3750; 3828; 4204; 4220; 4579; 4591; 4669; 4677; 4688; 4763
DpnII	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2044; 2053; 2066; 3246; 3250; 3269; 3580; 3658; 3739; 3748; 3826; 4202; 4218; 4577; 4589; 4667; 4675; 4686; 4761
DraI	TTT!AAA	3	2111; 4553; 4572
DraII	RG!GNCCY	3	815; 1511; 4507
DraIII	CACNNN!GTG	1	2525
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	2	266; 4889
DraRI	!NNNNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	2480; 3436; 5225
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2480; 3436; 5225
EaeI	Y!GGCCR	8	675; 1080; 1371; 1776; 3315; 3489; 3880; 3907
EagI	C!GGCCG	3	1080; 1776; 3315
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2876; 3753; 3963
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	3	2876; 3753; 3963
EciI	GGCGGANNNNNNNNNNNN!	4	2909; 3938; 5125; 5271
EciI	!NNNNNNNNNTCCGCC	4	496; 3080; 3101; 3122
Ecl136II	GAG!CTC	1	2002
EclXI	C!GGCCG	3	1080; 1776; 3315
Eco24I	GRGCY!C	7	1040; 1736; 2004; 2041; 2600; 3774; 4484
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	1	4398
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	815; 1511; 3925; 4370
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	3	1080; 1776; 3315
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	6	649; 1120; 1345; 1816; 3555; 3987
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4785
Eco72I	CAC!GTG	2	747; 1443
Eco81I	CC!TNAGG	2	2889; 4521
Eco88I	C!YCGRG	9	868; 1060; 1282; 1303; 1564; 1756; 1978; 1997; 2040
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWVGG	6	360; 611; 3138; 3231; 3841; 4246
Eco147I	AGG!CCT	1	3230
EcoHI	!CCSGG	12	1179; 1264; 1302; 1303; 1875; 1960; 2039; 2040; 3411; 3571; 4184; 4948
EcoICRI	GAG!CTC	1	2002
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	9	649; 964; 1120; 1345; 1660; 1816; 3555; 3987; 4249
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	4	1192; 1888; 4192; 4785
EcoNI	CCTNN!NNNAGG	2	628; 1324
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	3	815; 1511; 4507
EcoRI	G!AATTC	1	2013

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EcoRII	!CCWGG	19	88; 281; 785; 880; 929; 941; 1481; 1576; 1625; 1637; 2943; 2998; 3015; 3794; 4373; 4476; 5166; 5179; 5300
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 611; 3138; 3231; 3841; 4246
EcoT22I	ATGCA!T	3	2981; 3053; 5384
EcoT38I	GRGCY!C	7	1040; 1736; 2004; 2041; 2600; 3774; 4484
Eco53kI	GAG!CTC	1	2002
EgeI	GGC!GCC	3	759; 1455; 3410
EheI	GGC!GCC	3	759; 1455; 3410
ErhI	C!CWWGG	6	360; 611; 3138; 3231; 3841; 4246
EsaBC3I	TC!GA	18	780; 1242; 1476; 1938; 1999; 2012; 2025; 2559; 3250; 3523; 3679; 3703; 3739; 3901; 4092; 4137; 4392; 5230
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	22	304; 364; 615; 660; 738; 1179; 1356; 1434; 1875; 2839; 2979; 3051; 3142; 3283; 3628; 3814; 3845; 3871; 4227; 4611; 5331; 5382
FaiI	YA!TR	60	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 640; 658; 736; 1177; 1336; 1354; 1432; 1873; 2071; 2081; 2147; 2192; 2397; 2825; 2837; 2968; 2977; 3040; 3049; 3073; 3140; 3164; 3281; 3345; 3626; 3651; 3812; 3843; 3869; 3941; 4157; 4225; 4303; 4355; 4516; 4533; 4535; 4537; 4609; 4887; 5076; 5192; 5265; 5329; 5380
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	3	879; 1575; 3749
FalI	!NNNNNNNNAAGNNNNNCTT	3	847; 1543; 3717
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3560; 4092; 4201
FaqI	!NNNNNNNNNNNNNGTCCC	4	2925; 2997; 3061; 4356
FatI	!CATG	22	300; 360; 611; 656; 734; 1175; 1352; 1430; 1871; 2835; 2975; 3047; 3138; 3279; 3624; 3810; 3841; 3867; 4223; 4607; 5327; 5378
FauI	CCCGCNNNN!	10	93; 119; 286; 1002; 1698; 2731; 3086; 3107; 4303; 4435
FauI	!NNNNNNGCGGG	6	2028; 2662; 3532; 4069; 4207; 4354
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2066
FblI	GT!MKAC	1	2024
FmuI	GGNC!C	19	86; 279; 792; 818; 1006; 1098; 1266; 1488; 1514; 1702; 1794; 1962; 2041; 2519; 3928; 4373; 4419; 4477; 4510
Fnu4HI	GC!NGC	44	621; 798; 810; 912; 1026; 1029; 1080; 1216; 1317; 1494; 1506; 1608; 1722; 1725; 1776; 1912; 2186; 2705; 2727; 2741; 3179; 3318; 3370; 3381; 3471; 3476; 3513; 3554; 3641; 3644; 3647; 3883; 3979; 4020; 4034; 4148; 4487; 4502; 4713; 4919; 4922; 4987; 5130; 5285
FokI	GGATGNNNNNNNNN!	5	1320; 3276; 3733; 3758; 4212
FokI	!NNNNNNNNNNNNNCATCC	7	769; 901; 1186; 1465; 1597; 1882; 3082
FriOI	GRGCY!C	7	1040; 1736; 2004; 2041; 2600; 3774; 4484
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	3	643; 1339; 3511
FspAI	RTGC!GCAY	2	643; 1339
FspBI	C!TAG	8	592; 2057; 2258; 2676; 3232; 4247; 4581; 4834
FspEI	CCNNNNNNNNNNNN!	191	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 637; 681; 727; 741; 757; 774; 789; 804; 831; 846; 880; 894; 909; 931; 951; 970; 999; 1018; 1052; 1072; 1096; 1110; 1126; 1141; 1159; 1173; 1188; 1209; 1269; 1291; 1305; 1333; 1377; 1423; 1437; 1453; 1470; 1485; 1500; 1527; 1542; 1576; 1590; 1605; 1627; 1647; 1666; 1695; 1714; 1748; 1768; 1792; 1806; 1822; 1837; 1855; 1869; 1884; 1905; 1965; 1987; 2001; 2046; 2061; 2092; 2131; 2145; 2286; 2381; 2405; 2428; 2451; 2469; 2491; 2512; 2531; 2550; 2579; 2600; 2614; 2640; 2728; 2754; 2803; 2844; 2862; 2901; 2917; 2955; 3012; 3027; 3084; 3104; 3118; 3135; 3149; 3186; 3201; 3244; 3327; 3394; 3425; 3445; 3460; 3505; 3519; 3585; 3599; 3618; 3634; 3675; 3695; 3742; 3792; 3808; 3828; 3853; 3873; 3896; 3923; 3941; 3967; 4007; 4033; 4057; 4113; 4127; 4155; 4198; 4219; 4254; 4298; 4386; 4410; 4432; 4452; 4468; 4489; 4503; 4522; 4606; 4626; 4654; 4669; 4703; 4745; 4772; 4787; 4832; 4856; 4870; 4892; 4918; 4938; 4962; 4988; 5036; 5055; 5074; 5100; 5135; 5180; 5210; 5224; 5275; 5289; 5314; 5330; 5351; 5380

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	!NNNNNNNNNNNNNNNNNGG	153	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 605; 616; 643; 679; 707; 739; 772; 791; 856; 889; 916; 952; 986; 1010; 1033; 1052; 1078; 1098; 1131; 1166; 1188; 1213; 1237; 1273; 1294; 1312; 1339; 1375; 1403; 1435; 1468; 1487; 1552; 1585; 1612; 1648; 1682; 1706; 1729; 1748; 1774; 1794; 1827; 1862; 1884; 1909; 1933; 1969; 2012; 2036; 2080; 2180; 2249; 2357; 2406; 2428; 2456; 2492; 2537; 2566; 2602; 2621; 2649; 2669; 2732; 2755; 2863; 2895; 2913; 2942; 2985; 3014; 3125; 3154; 3197; 3218; 3246; 3279; 3299; 3324; 3351; 3376; 3398; 3426; 3452; 3473; 3524; 3545; 3563; 3611; 3647; 3703; 3728; 3752; 3781; 3804; 3828; 3854; 3876; 3895; 3920; 3960; 3996; 4061; 4146; 4170; 4199; 4233; 4254; 4274; 4319; 4346; 4365; 4398; 4450; 4481; 4508; 4560; 4658; 4729; 4774; 4835; 4900; 4934; 4960; 4978; 5014; 5084; 5107; 5129; 5153; 5186; 5234; 5269; 5287; 5344
Fsp4HI	GC!NGC	44	621; 798; 810; 912; 1026; 1029; 1080; 1216; 1317; 1494; 1506; 1608; 1722; 1725; 1776; 1912; 2186; 2705; 2727; 2741; 3179; 3318; 3370; 3381; 3471; 3476; 3513; 3554; 3641; 3644; 3647; 3883; 3979; 4020; 4034; 4148; 4487; 4502; 4713; 4919; 4922; 4987; 5130; 5285
GdiII	C!GGCCR	5	675; 1080; 1371; 1776; 3315
GdiII	Y!GGCCG	5	1080; 1776; 3315; 3880; 3907
GlaI	GC!GC	29	596; 643; 759; 1165; 1167; 1339; 1455; 1861; 1863; 2674; 2682; 2708; 2730; 2739; 2752; 2783; 3402; 3410; 3474; 3511; 3777; 4037; 4213; 4299; 4702; 4811; 4985; 5085; 5152
Glul	GC!NGC	44	621; 798; 810; 912; 1026; 1029; 1080; 1216; 1317; 1494; 1506; 1608; 1722; 1725; 1776; 1912; 2186; 2705; 2727; 2741; 3179; 3318; 3370; 3381; 3471; 3476; 3513; 3554; 3641; 3644; 3647; 3883; 3979; 4020; 4034; 4148; 4487; 4502; 4713; 4919; 4922; 4987; 5130; 5285
GsaI	CCCAG!C	5	1043; 1739; 2956; 3028; 5027
GsaI	GCTGG!G	3	1035; 1731; 3917
GsuI	CTGGAGNNNNNNNNNNNNNN!	3	964; 1660; 4249
GsuI	!NNNNNNNNNNNNNNCTCCAG	3	1192; 1888; 4192
HaeI	WGG!CCW	9	1255; 1291; 1951; 1987; 3230; 3491; 4853; 5305; 5316
HaeII	RGCG!Y	7	598; 761; 1457; 2676; 2684; 3412; 5087
HaeIII	GG!CC	40	84; 277; 623; 677; 790; 1004; 1082; 1096; 1159; 1255; 1264; 1291; 1319; 1373; 1486; 1700; 1778; 1792; 1855; 1951; 1960; 1987; 2039; 2375; 2517; 3172; 3178; 3187; 3230; 3317; 3491; 3882; 3909; 4418; 4475; 4508; 4853; 5287; 5305; 5316
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2084; 3605
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2050; 3571
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2083; 3604
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2052; 3573
HapII	C!CGG	34	601; 722; 1083; 1113; 1146; 1181; 1203; 1266; 1304; 1418; 1779; 1809; 1842; 1877; 1899; 1962; 2041; 2051; 2627; 3314; 3391; 3413; 3441; 3572; 3662; 3729; 3910; 4185; 4193; 4285; 4759; 4949; 4975; 5122
HgaI	GACGCNNNNN!	3	526; 4119; 4198
HgaI	!NNNNNNNNNGCGTC	3	2742; 4637; 5215
HhaI	GCG!C	29	597; 644; 760; 1166; 1168; 1340; 1456; 1862; 1864; 2675; 2683; 2709; 2731; 2740; 2753; 2784; 3403; 3411; 3475; 3512; 3778; 4038; 4214; 4300; 4703; 4812; 4986; 5086; 5153
Hin1I	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3409; 4111; 4190
Hin1II	CATG!	22	304; 364; 615; 660; 738; 1179; 1356; 1434; 1875; 2839; 2979; 3051; 3142; 3283; 3628; 3814; 3845; 3871; 4227; 4611; 5331; 5382
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	2083; 3604
Hin4I	!NNNNNNNNGABNNNNNRTC	3	2051; 3572; 3602
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	2083; 3604; 3634
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	2051; 3572
Hin6I	G!CGC	29	595; 642; 758; 1164; 1166; 1338; 1454; 1860; 1862; 2673; 2681; 2707; 2729; 2738; 2751; 2782; 3401; 3409; 3473; 3510; 3776; 4036; 4212; 4298; 4701; 4810; 4984; 5084; 5151
HinP1I	G!CGC	29	595; 642; 758; 1164; 1166; 1338; 1454; 1860; 1862; 2673; 2681; 2707; 2729; 2738; 2751; 2782; 3401; 3409; 3473; 3510; 3776; 4036; 4212; 4298; 4701; 4810; 4984; 5084; 5151
HincII	GTY!RAC	2	2025; 2172
HindII	GTY!RAC	2	2025; 2172

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HindIII	A!AGCTT	1	2006
HinfI	G!ANTC	13	410; 740; 1436; 2452; 2474; 2884; 3894; 4028; 4080; 4138; 4175; 4957; 5353
HpaI	GTT!AAC	1	2172
HpaII	C!CGG	34	601; 722; 1083; 1113; 1146; 1181; 1203; 1266; 1304; 1418; 1779; 1809; 1842; 1877; 1899; 1962; 2041; 2051; 2627; 3314; 3391; 3413; 3441; 3572; 3662; 3729; 3910; 4185; 4193; 4285; 4759; 4949; 4975; 5122
HphI	GGTGANNNNNNNN!	7	376; 627; 981; 1323; 1677; 4480; 4596
HphI	!NNNNNNNTCACC	6	870; 1185; 1566; 1881; 2526; 3587
Hpy8I	GTN!NAC	17	201; 539; 577; 672; 825; 978; 1056; 1368; 1521; 1674; 1752; 2025; 2172; 2456; 2473; 2528; 5015
Hpy99I	CGWCG!	12	709; 1003; 1405; 1699; 2029; 3499; 3527; 3821; 3836; 4113; 4498; 5231
Hpy166II	GTN!NAC	17	201; 539; 577; 672; 825; 978; 1056; 1368; 1521; 1674; 1752; 2025; 2172; 2456; 2473; 2528; 5015
Hpy188I	TCN!GA	11	585; 2583; 3192; 3376; 3720; 4073; 4174; 4653; 4787; 5140; 5218
Hpy188III	TC!NNGA	26	648; 918; 1209; 1344; 1614; 1905; 2057; 2836; 2888; 3201; 3254; 3427; 3743; 3752; 3835; 3891; 3935; 4025; 4058; 4127; 4608; 4682; 4765; 4863; 4961; 5095
HpyAV	CCTTCNNNNNN!	9	726; 780; 828; 1422; 1476; 1524; 4054; 4161; 4840
HpyAV	!NNNNNGAAGG	19	624; 966; 1095; 1149; 1221; 1281; 1320; 1662; 1791; 1845; 1917; 1977; 2642; 3537; 4266; 4282; 4465; 4782; 5092
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 669; 1365; 2029; 2500; 3789; 3905; 4013; 4336; 4827; 5297; 5368
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 746; 1088; 1442; 1784; 2469; 2481; 2524; 2634; 3525; 3712; 4493; 4626
HpyCH4V	TG!CA	21	825; 978; 1521; 1674; 2020; 2158; 2185; 2253; 2970; 2979; 3042; 3051; 3166; 3242; 3301; 3460; 3635; 3649; 4719; 5015; 5382
HpyF3I	C!TNAG	6	2889; 3191; 4072; 4521; 4644; 5053
HpyF10VI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 731; 806; 947; 1076; 1148; 1165; 1212; 1261; 1427; 1502; 1643; 1772; 1844; 1861; 1908; 1957; 2636; 2666; 2693; 2735; 2976; 3048; 3099; 3178; 3400; 3484; 3507; 3646; 3769; 3852; 4119; 4306; 4510; 4709; 5281
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3409; 4111; 4190
Hsp92II	CATG!	22	304; 364; 615; 660; 738; 1179; 1356; 1434; 1875; 2839; 2979; 3051; 3142; 3283; 3628; 3814; 3845; 3871; 4227; 4611; 5331; 5382
HspAI	G!CGC	29	595; 642; 758; 1164; 1166; 1338; 1454; 1860; 1862; 2673; 2681; 2707; 2729; 2738; 2751; 2782; 3401; 3409; 3473; 3510; 3776; 4036; 4212; 4298; 4701; 4810; 4984; 5084; 5151
KasI	G!GCGCC	3	757; 1453; 3408
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	2033
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	2036
Ksp22I	T!GATCA	1	2066
KspAI	GTT!AAC	1	2172
Kzo9I	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2044; 2053; 2066; 3246; 3250; 3269; 3580; 3658; 3739; 3748; 3826; 4202; 4218; 4577; 4589; 4667; 4675; 4686; 4761
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3753; 3963
LpnI	RG!GCGY	7	596; 759; 1455; 2674; 2682; 3410; 5085
LpnPI	CCDGNNNNNNNNN!	83	102; 295; 614; 637; 735; 778; 799; 894; 931; 951; 970; 1053; 1096; 1111; 1126; 1152; 1183; 1216; 1269; 1291; 1317; 1333; 1431; 1474; 1495; 1590; 1627; 1647; 1666; 1749; 1792; 1807; 1822; 1848; 1879; 1912; 1965; 1987; 2054; 2146; 2451; 2640; 2863; 2901; 2917; 2957; 3012; 3029; 3129; 3214; 3327; 3404; 3426; 3449; 3585; 3599; 3618; 3675; 3742; 3792; 3808; 3865; 3923; 4132; 4198; 4222; 4298; 4387; 4490; 4523; 4754; 4772; 4918; 4938; 4962; 4988; 5037; 5135; 5180; 5210; 5289; 5314; 5351

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LpnPI	!NNNNNNNNNNNNNNCHGG	71	75; 268; 552; 586; 707; 772; 798; 867; 916; 1017; 1068; 1098; 1131; 1166; 1188; 1251; 1289; 1403; 1468; 1494; 1563; 1612; 1713; 1764; 1794; 1827; 1862; 1884; 1947; 2026; 2492; 2612; 2669; 2732; 2930; 2942; 3002; 3014; 3246; 3291; 3334; 3376; 3398; 3426; 3473; 3535; 3557; 3647; 3714; 3737; 3781; 3876; 3895; 3920; 4069; 4170; 4213; 4270; 4360; 4463; 4490; 4508; 4744; 4781; 4934; 4960; 5100; 5118; 5153; 5234; 5287
Lsp1109I	GCAGCNNNNNNNN!	8	821; 1517; 2197; 3482; 3524; 4045; 4498; 4998
Lsp1109I	!NNNNNNNNNNNGCTGC	10	784; 1202; 1480; 1898; 2691; 3356; 3540; 3633; 4699; 4905
LweI	GCATCNNNNN!	10	653; 923; 1349; 1619; 2225; 2988; 3060; 3708; 3772; 4047
LweI	!NNNNNNNNNGATGC	7	357; 1202; 1898; 3367; 3622; 3838; 5230
MabI	A!CCWGGT	1	2998
MaeI	C!TAG	8	592; 2057; 2258; 2676; 3232; 4247; 4581; 4834
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 746; 1088; 1442; 1784; 2469; 2481; 2524; 2634; 3525; 3712; 4493; 4626
MaeIII	!GTNAC	14	61; 148; 497; 747; 1443; 2197; 2698; 2710; 3529; 3835; 4525; 4791; 4907; 4970
MalI	GA!TC	27	587; 841; 961; 1123; 1299; 1537; 1657; 1819; 2046; 2055; 2068; 3248; 3252; 3271; 3582; 3660; 3741; 3750; 3828; 4204; 4220; 4579; 4591; 4669; 4677; 4688; 4763
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2833; 4022
MbiI	GAG!CGG	6	620; 1025; 1316; 1721; 2669; 4076
MboI	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2044; 2053; 2066; 3246; 3250; 3269; 3580; 3658; 3739; 3748; 3826; 4202; 4218; 4577; 4589; 4667; 4675; 4686; 4761
MboII	GAAGANNNNNNNN!	9	1026; 1233; 1722; 1929; 2665; 2893; 3770; 3980; 4599
MboII	!NNNNNNNTCTTC	6	843; 1539; 4060; 4227; 4427; 4670
McaTI	GCGC!GC	2	1167; 1863
MfeI	C!AATTG	1	2159
MfiI	R!GATCY	13	585; 839; 1297; 1535; 2044; 2053; 3580; 3826; 4218; 4577; 4589; 4675; 4686
MhiI	GDGCH!C	18	667; 827; 980; 1040; 1363; 1523; 1676; 1736; 2004; 2041; 2600; 3355; 3448; 3522; 3712; 3774; 4484; 5017
MisI	TGG!CCA	1	3491
MluI	A!CGCGT	1	2295
MluNI	TGG!CCA	1	3491
MlyI	GAGTCNNNNN!	2	2461; 2893
MlyI	!NNNNNGACTC	4	404; 2468; 4074; 4951
Mly113I	GG!CGCC	3	758; 1454; 3409
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	2502
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	4934; 5118
MnII	CCTCNNNNNNN!	7	2128; 3192; 4010; 4216; 4530; 4900; 5224
MnII	!NNNNNGAGG	29	541; 654; 687; 747; 864; 897; 939; 1041; 1245; 1350; 1383; 1443; 1560; 1593; 1635; 1737; 1941; 2088; 2553; 2884; 3162; 3205; 3220; 3260; 3324; 3460; 3817; 4247; 5150
Mph1103I	ATGCA!T	3	2981; 3053; 5384
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	5	721; 1417; 2626; 3909; 4192
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	1	3491
MseI	T!TAA	15	7; 2110; 2171; 2292; 2313; 2324; 2336; 2347; 2364; 2462; 2733; 4552; 4566; 4571; 4623
MslI	CAYNN!NNRTG	7	365; 613; 649; 1048; 1345; 1744; 3846
MspI	C!CGG	34	601; 722; 1083; 1113; 1146; 1181; 1203; 1266; 1304; 1418; 1779; 1809; 1842; 1877; 1899; 1962; 2041; 2051; 2627; 3314; 3391; 3413; 3441; 3572; 3662; 3729; 3910; 4185; 4193; 4285; 4759; 4949; 4975; 5122
Msp20I	TGG!CCA	1	3491
MspA1I	CMG!CKG	5	2035; 2907; 3515; 4744; 4989
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	278	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 613; 636; 655; 669; 699; 734; 747; 764; 777; 798; 813; 834; 848; 867; 880; 893; 911; 930; 943; 969; 991; 1006; 1020; 1044; 1058; 1072; 1095; 1110; 1125; 1151; 1164; 1177; 1192; 1208; 1221; 1245; 1263; 1277; 1290; 1304; 1317; 1332; 1351; 1365; 1395; 1430; 1443; 1460; 1473; 1494; 1509; 1530; 1544; 1563; 1576; 1589; 1607; 1626; 1639; 1665; 1687; 1702; 1716; 1740; 1754; 1768; 1791; 1806; 1821; 1847; 1860; 1873; 1888; 1904; 1917; 1941; 1959; 1973; 1986; 2000; 2015; 2046; 2063; 2077; 2092; 2116; 2133; 2146; 2187; 2201; 2214; 2232; 2270; 2285; 2303; 2344; 2368; 2388; 2406; 2427; 2450; 2482; 2497; 2519; 2537; 2550; 2571; 2588; 2601; 2614; 2630; 2643; 2673; 2688; 2713; 2731; 2744; 2759; 2783; 2797; 2821; 2846; 2862; 2900; 2916; 2955; 2969; 2983; 3011; 3027; 3041; 3055; 3084; 3097; 3118; 3127; 3149; 3179; 3195; 3213; 3243; 3266; 3290; 3314; 3333; 3361; 3387; 3403; 3416; 3439; 3453; 3473; 3486; 3500; 3519; 3533; 3546; 3562; 3577; 3590; 3606; 3621; 3637; 3662; 3681; 3697; 3710; 3723; 3741; 3755; 3769; 3785; 3807; 3823; 3842; 3864; 3880; 3903; 3922; 3936; 3952; 3966; 3986; 4002; 4015; 4037; 4070; 4084; 4104; 4117; 4131; 4185; 4198; 4221; 4234; 4253; 4270; 4297; 4333; 4366; 4385; 4410; 4431; 4458; 4471; 4488; 4502; 4517; 4533; 4593; 4618; 4634; 4656; 4669; 4683; 4714; 4728; 4753; 4771; 4786; 4799; 4818; 4831; 4846; 4875; 4894; 4912; 4937; 4952; 4971; 4987; 5006; 5024; 5040; 5054; 5073; 5100; 5123; 5145; 5164; 5179; 5192; 5209; 5229; 5256; 5269; 5288; 5313; 5336; 5350; 5363; 5380
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; 598; 625; 643; 655; 673; 704; 721; 739; 758; 780; 799; 823; 841; 867; 887; 904; 924; 943; 965; 992; 1018; 1046; 1064; 1084; 1105; 1125; 1147; 1166; 1188; 1219; 1237; 1264; 1289; 1321; 1339; 1351; 1369; 1400; 1417; 1435; 1454; 1476; 1495; 1519; 1537; 1563; 1583; 1600; 1620; 1639; 1661; 1688; 1714; 1742; 1760; 1780; 1801; 1821; 1843; 1862; 1884; 1915; 1933; 1960; 1983; 2003; 2020; 2037; 2061; 2090; 2119; 2161; 2244; 2282; 2306; 2329; 2358; 2402; 2424; 2456; 2492; 2509; 2530; 2567; 2587; 2604; 2621; 2656; 2674; 2692; 2709; 2733; 2755; 2782; 2810; 2836; 2874; 2895; 2912; 2930; 2953; 2974; 3002; 3025; 3046; 3064; 3085; 3102; 3125; 3149; 3169; 3187; 3209; 3240; 3262; 3288; 3307; 3324; 3352; 3371; 3390; 3408; 3426; 3447; 3469; 3493; 3526; 3546; 3564; 3585; 3611; 3638; 3655; 3672; 3689; 3715; 3737; 3759; 3777; 3797; 3816; 3838; 3876; 3896; 3920; 3940; 3960; 3987; 4011; 4044; 4063; 4091; 4113; 4142; 4170; 4195; 4214; 4233; 4254; 4271; 4288; 4319; 4346; 4366; 4389; 4409; 4446; 4463; 4482; 4508; 4528; 4567; 4594; 4613; 4631; 4668; 4686; 4727; 4745; 4771; 4788; 4820; 4849; 4877; 4898; 4921; 4940; 4961; 4979; 4996; 5014; 5040; 5061; 5081; 5101; 5119; 5140; 5166; 5183; 5202; 5221; 5250; 5269; 5287; 5306; 5324; 5342; 5365
MspR9I	CC!NGG	31	90; 283; 787; 882; 931; 943; 1181; 1266; 1304; 1305; 1483; 1578; 1627; 1639; 1877; 1962; 2041; 2042; 2945; 3000; 3017; 3413; 3573; 3796; 4186; 4375; 4478; 4950; 5168; 5181; 5302
MssI	GTTT!AAC	0	
MunI	CA!AATTG	1	2159
MvaI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2945; 3000; 3017; 3796; 4375; 4478; 5168; 5181; 5302
Mva1269I	GAATGCN!	1	2160
Mva1269I	G!CATTC	1	2253
MvnI	CG!CG	18	60; 1166; 1862; 2035; 2297; 2333; 2709; 2729; 2753; 2784; 3475; 3776; 4214; 4298; 4361; 4430; 4703; 5284
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 731; 806; 947; 1076; 1148; 1165; 1212; 1261; 1427; 1502; 1643; 1772; 1844; 1861; 1908; 1957; 2636; 2666; 2693; 2735; 2976; 3048; 3099; 3178; 3400; 3484; 3507; 3646; 3769; 3852; 4119; 4306; 4510; 4709; 5281
NaeI	GCC!GGC	5	723; 1419; 2628; 3911; 4194
NarI	GG!CGCC	3	758; 1454; 3409
NciI	CC!SGG	12	1181; 1266; 1304; 1305; 1877; 1962; 2041; 2042; 3413; 3573; 4186; 4950
NcoI	C!CATGG	4	360; 611; 3138; 3841
NdeI	CA!TATG	1	234

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeII	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2044; 2053; 2066; 3246; 3250; 3269; 3580; 3658; 3739; 3748; 3826; 4202; 4218; 4577; 4589; 4667; 4675; 4686; 4761
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	5	721; 1417; 2626; 3909; 4192
NheI	G!CTAGC	1	591
NlaIII	CATG!	22	304; 364; 615; 660; 738; 1179; 1356; 1434; 1875; 2839; 2979; 3051; 3142; 3283; 3628; 3814; 3845; 3871; 4227; 4611; 5331; 5382
NlaIV	GGN!NCC	35	467; 666; 726; 759; 791; 984; 1005; 1037; 1117; 1207; 1362; 1422; 1455; 1487; 1680; 1701; 1733; 1813; 1903; 2031; 2039; 2046; 2564; 2585; 2597; 2788; 2949; 3021; 3410; 3445; 4293; 4372; 4417; 5260; 5299
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2241; 2556; 4148
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	6	347; 991; 1072; 1687; 1768; 5220
Nli3877I	CYCGR!G	9	872; 1064; 1286; 1307; 1568; 1760; 1982; 2001; 2044
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	4	861; 1557; 3198; 3634
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	3163
NmeDI	RCCGGYNNNNNNNN!	9	612; 733; 1124; 1429; 1820; 2638; 3740; 3921; 4204
NmeDI	!NNNNNNNNNNNNRCCGGY	9	587; 708; 1099; 1404; 1795; 2613; 3715; 3896; 4179
NmuCI	!GTSAC	5	747; 1443; 2698; 3529; 3835
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	3	643; 1339; 3511
NsiI	ATGCA!T	3	2981; 3053; 5384
NspI	RCATG!Y	4	2979; 3051; 3814; 5331
NspV	TT!CGAA	2	2011; 4091
OliI	CACNN!NNGTG	3	613; 1048; 1744
PabI	GTA!C	20	220; 245; 300; 333; 384; 541; 656; 806; 1058; 1238; 1250; 1271; 1352; 1502; 1754; 1934; 1946; 1967; 2032; 3716
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2979; 3051; 3814
PaeR7I	C!TCGAG	1	1997
PagI	T!CATGA	2	2835; 4607
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4374; 4477
PauI	G!CGCGC	2	1164; 1860
PceI	AGG!CCT	1	3230
PciI	A!CATGT	1	5327
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3753; 3963
PcsI	WCGNNNN!NNNCGW	10	1238; 1256; 1934; 1952; 3703; 3780; 4023; 4097; 4490; 5008
PctI	GAATGCN!	1	2160
PctI	G!CATTC	1	2253
PdiI	GCC!GGC	5	723; 1419; 2628; 3911; 4194
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	740; 1436; 3894; 4028; 4138; 4175; 5353
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3527
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	1	4184
PhoI	GG!CC	40	84; 277; 623; 677; 790; 1004; 1082; 1096; 1159; 1255; 1264; 1291; 1319; 1373; 1486; 1700; 1778; 1792; 1855; 1951; 1960; 1987; 2039; 2375; 2517; 3172; 3178; 3187; 3230; 3317; 3491; 3882; 3909; 4418; 4475; 4508; 4853; 5287; 5305; 5316
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3790
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	3355; 3610
PleI	GAGTCNNNN!	2	2460; 2892
PleI	!NNNNNGACTC	4	404; 2468; 4074; 4951
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	2	747; 1443
PmeI	GTTT!AAAC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PmlI	CAC!GTG	2	747; 1443
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	2	2018; 2491
PpiI	!NNNNNNNGAGNNNNNGTTC	1	4621
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4653
PpiI	!NNNNNNNGAACNNNNNCTC	2	1986; 2459
PpsI	GAGTCNNNN!	2	2460; 2892
PpsI	!NNNNNGACTC	4	404; 2468; 4074; 4951
Ppu10I	A!TGCAT	3	2977; 3049; 5380
Ppu21I	YAC!GTR	5	340; 747; 1443; 2525; 3713
PpuMI	RG!GWCCY	2	815; 1511
Psci	A!CATGT	1	5327
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2192; 2397
Psp03I	GGWC!C	4	818; 1514; 3928; 4373
Psp5II	RG!GWCCY	2	815; 1511
Psp6I	!CCWGG	19	88; 281; 785; 880; 929; 941; 1481; 1576; 1625; 1637; 2943; 2998; 3015; 3794; 4373; 4476; 5166; 5179; 5300
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	2004
PspCI	CAC!GTG	2	747; 1443
PspEI	G!GTNACC	0	
PspGI	!CCWGG	19	88; 281; 785; 880; 929; 941; 1481; 1576; 1625; 1637; 2943; 2998; 3015; 3794; 4373; 4476; 5166; 5179; 5300
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	35	467; 666; 726; 759; 791; 984; 1005; 1037; 1117; 1207; 1362; 1422; 1455; 1487; 1680; 1701; 1733; 1813; 1903; 2031; 2039; 2046; 2564; 2585; 2597; 2788; 2949; 3021; 3410; 3445; 4293; 4372; 4417; 5260; 5299
PspOMI	G!GGCCC	1	2037
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 3139; 4138
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3541
PspPI	G!GNCC	19	83; 276; 789; 815; 1003; 1095; 1263; 1485; 1511; 1699; 1791; 1959; 2038; 2516; 3925; 4370; 4416; 4474; 4507
PspPPI	RG!GWCCY	2	815; 1511
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	2962; 3034; 4540
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	2875; 4070
PspXI	VC!TCGAGB	1	1997
PsrI	GAACNNNNNNTACNNNNNNNNNNNN!	2	696; 1392
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNTAC	2	664; 1360
PssI	RGGNC!CY	3	818; 1514; 4510
PstI	CTGCA!G	1	2022
PstNI	CAGNNN!CTG	4	1215; 1911; 4510; 4918
PsuI	R!GATCY	13	585; 839; 1297; 1535; 2044; 2053; 3580; 3826; 4218; 4577; 4589; 4675; 4686
PsyI	GACN!NNGTC	1	3527
PteI	G!CGCGC	2	1164; 1860
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2907; 3515
RcaI	T!CATGA	2	2835; 4607
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3924
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	2138
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	2	929; 1625
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	20	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1237; 1249; 1270; 1351; 1501; 1753; 1933; 1945; 1966; 2031; 3715

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RsaNI	G!TAC	20	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1236; 1248; 1269; 1350; 1500; 1752; 1932; 1944; 1965; 2030; 3714
RseI	CAYNN!NNRTG	7	365; 613; 649; 1048; 1345; 1744; 3846
RsrII	CG!GWCCG	1	3925
Rsr2I	CG!GWCCG	1	3925
SacI	GAGCT!C	1	2004
SacII	CCGC!GG	1	2036
SalI	G!TCGAC	1	2023
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	3753; 3963
SaqAI	T!TAA	15	7; 2110; 2171; 2292; 2313; 2324; 2336; 2347; 2364; 2462; 2733; 4552; 4566; 4571; 4623
SatI	GC!NGC	44	621; 798; 810; 912; 1026; 1029; 1080; 1216; 1317; 1494; 1506; 1608; 1722; 1725; 1776; 1912; 2186; 2705; 2727; 2741; 3179; 3318; 3370; 3381; 3471; 3476; 3513; 3554; 3641; 3644; 3647; 3883; 3979; 4020; 4034; 4148; 4487; 4502; 4713; 4919; 4922; 4987; 5130; 5285
Sau96I	G!GNCC	19	83; 276; 789; 815; 1003; 1095; 1263; 1485; 1511; 1699; 1791; 1959; 2038; 2516; 3925; 4370; 4416; 4474; 4507
Sau3AI	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2044; 2053; 2066; 3246; 3250; 3269; 3580; 3658; 3739; 3748; 3826; 4202; 4218; 4577; 4589; 4667; 4675; 4686; 4761
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	2	1237; 1933
SchI	GAGTCNNNNN!	2	2461; 2893
SchI	!NNNNNGACTC	4	404; 2468; 4074; 4951
SciI	CTC!GAG	1	1999
ScrFI	CC!NGG	31	90; 283; 787; 882; 931; 943; 1181; 1266; 1304; 1305; 1483; 1578; 1627; 1639; 1877; 1962; 2041; 2042; 2945; 3000; 3017; 3413; 3573; 3796; 4186; 4375; 4478; 4950; 5168; 5181; 5302
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	4	2987; 3059; 3228; 5170
SdeAI	!NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTYCTG	2	3564; 4049
SdeOSI	GACNNNNRTGANNNNNNNNNNNNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNNGACNNNNNRTGA	1	245
SduI	GDGCH!C	18	667; 827; 980; 1040; 1363; 1523; 1676; 1736; 2004; 2041; 2600; 3355; 3448; 3522; 3712; 3774; 4484; 5017
SelI	!CGCG	18	58; 1164; 1860; 2033; 2295; 2331; 2707; 2727; 2751; 2782; 3473; 3774; 4212; 4296; 4359; 4428; 4701; 5282
SetI	ASST!	79	125; 137; 178; 261; 308; 342; 447; 552; 568; 749; 820; 865; 883; 901; 971; 977; 1052; 1091; 1106; 1121; 1144; 1247; 1280; 1445; 1516; 1561; 1579; 1597; 1667; 1673; 1748; 1787; 1802; 1817; 1840; 1943; 1976; 2004; 2010; 2099; 2120; 2129; 2141; 2190; 2357; 2472; 2484; 2527; 2564; 2614; 2637; 2761; 2909; 3004; 3197; 3310; 3438; 3517; 3528; 3600; 3671; 3715; 3975; 4121; 4165; 4496; 4527; 4586; 4629; 4772; 4793; 4892; 5029; 5044; 5063; 5075; 5119; 5165; 5216
SexAI	A!CCWGGT	1	2998
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	653; 923; 1349; 1619; 2225; 2988; 3060; 3708; 3772; 4047
SfaNI	!NNNNNNNNNNGATGC	7	357; 1202; 1898; 3367; 3622; 3838; 5230
SfcI	C!TRYAG	4	2018; 2744; 4871; 5062
SfiI	GGCCNNNN!NGGCC	3	1261; 1957; 3184
SfoI	GGC!GCC	3	759; 1455; 3410
Sfr274I	C!TCGAG	1	1997
Sfr303I	CCGC!GG	1	2036
SfuI	TT!CGAA	2	2011; 4091

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	229	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 636; 660; 681; 699; 734; 747; 765; 798; 813; 834; 849; 867; 880; 893; 915; 930; 943; 969; 991; 1006; 1020; 1044; 1059; 1072; 1095; 1110; 1125; 1151; 1164; 1177; 1192; 1215; 1245; 1263; 1277; 1290; 1315; 1332; 1356; 1377; 1395; 1430; 1443; 1461; 1494; 1509; 1530; 1545; 1563; 1576; 1589; 1611; 1626; 1639; 1665; 1687; 1702; 1716; 1740; 1755; 1768; 1791; 1806; 1821; 1847; 1860; 1873; 1888; 1911; 1941; 1959; 1973; 1986; 2009; 2046; 2063; 2116; 2145; 2187; 2270; 2308; 2344; 2428; 2450; 2482; 2519; 2537; 2556; 2571; 2613; 2630; 2647; 2682; 2696; 2713; 2735; 2759; 2783; 2848; 2862; 2900; 2916; 2956; 2969; 2988; 3011; 3028; 3041; 3060; 3090; 3111; 3128; 3151; 3186; 3213; 3244; 3266; 3292; 3314; 3333; 3361; 3397; 3416; 3439; 3453; 3473; 3486; 3500; 3519; 3533; 3552; 3584; 3598; 3611; 3637; 3668; 3681; 3698; 3715; 3729; 3746; 3764; 3779; 3807; 3823; 3842; 3864; 3880; 3903; 3922; 3947; 3966; 3986; 4013; 4037; 4070; 4089; 4117; 4131; 4197; 4221; 4236; 4259; 4280; 4297; 4345; 4372; 4386; 4415; 4439; 4472; 4489; 4509; 4522; 4535; 4593; 4620; 4639; 4669; 4694; 4714; 4728; 4753; 4771; 4808; 4846; 4875; 4903; 4917; 4937; 4952; 4973; 4987; 5006; 5024; 5040; 5080; 5100; 5127; 5145; 5166; 5179; 5192; 5209; 5233; 5256; 5288; 5313; 5340; 5362
SgeI	!NNNNNNNNNNNNCNG	194	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 634; 655; 673; 708; 731; 751; 772; 799; 823; 841; 867; 889; 916; 943; 965; 992; 1018; 1046; 1069; 1099; 1125; 1147; 1166; 1189; 1219; 1237; 1264; 1289; 1306; 1330; 1351; 1369; 1404; 1427; 1447; 1468; 1495; 1519; 1537; 1563; 1585; 1612; 1639; 1661; 1688; 1714; 1742; 1765; 1795; 1821; 1843; 1862; 1885; 1915; 1933; 1960; 1983; 2020; 2037; 2090; 2119; 2161; 2244; 2282; 2318; 2402; 2424; 2456; 2493; 2511; 2530; 2587; 2604; 2621; 2656; 2674; 2694; 2714; 2733; 2757; 2822; 2874; 2930; 2962; 2985; 3002; 3034; 3064; 3085; 3102; 3125; 3160; 3187; 3218; 3240; 3266; 3288; 3307; 3335; 3371; 3390; 3413; 3434; 3452; 3469; 3493; 3526; 3558; 3585; 3611; 3642; 3672; 3689; 3715; 3738; 3759; 3781; 3801; 3821; 3838; 3877; 3896; 3921; 3940; 3960; 3987; 4011; 4044; 4063; 4091; 4113; 4171; 4195; 4214; 4233; 4254; 4271; 4319; 4346; 4366; 4389; 4413; 4446; 4463; 4483; 4509; 4567; 4594; 4613; 4643; 4668; 4688; 4727; 4745; 4782; 4820; 4849; 4877; 4898; 4926; 4947; 4980; 4998; 5054; 5074; 5101; 5119; 5140; 5166; 5183; 5207; 5230; 5262; 5287; 5314; 5336; 5365
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	2036
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2556; 4343; 5136
SimI	!GACCC	4	106; 3837; 4405; 4653
SinI	G!GWCC	4	815; 1511; 3925; 4370
SlaI	C!TCGAG	1	1997
SmaI	CCC!GGG	2	1305; 2042
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	7	365; 613; 649; 1048; 1345; 1744; 3846
SmlI	C!TYRAG	6	1997; 2003; 3800; 4682; 4959; 5221
SmoI	C!TYRAG	6	1997; 2003; 3800; 4682; 4959; 5221
SmuI	CCCGCNNNN!	10	93; 119; 286; 1002; 1698; 2731; 3086; 3107; 4303; 4435
SmuI	!NNNNNNGCGGG	6	2028; 2662; 3532; 4069; 4207; 4354
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2979; 3051; 3814
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 2013; 2159; 2223; 2301; 2327; 2338; 2985; 3057; 3149; 4567
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	2	815; 1511
SseBI	AGG!CCT	1	3230

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 833; 923; 995; 1529; 1619; 1691; 2033; 2724; 2727; 2741; 2831; 3079; 3091; 3100; 3112; 3122; 3133; 3179; 3318; 3381; 3883; 3928; 3994; 4020; 4145; 4148; 4296; 4428; 4735; 4879; 5375
SsiI	G!CGG	36	370; 403; 528; 620; 911; 1025; 1028; 1079; 1218; 1316; 1607; 1721; 1724; 1775; 1914; 2035; 2669; 2696; 2784; 2894; 3475; 3539; 3640; 3643; 3923; 3978; 4076; 4214; 4361; 4501; 4744; 4989; 5110; 5129; 5256; 5284
SspI	AAT!ATT	2	2317; 2870
SspDI	G!GCGCC	3	757; 1453; 3408
SspD5I	GGTANNNNNNNN!	7	376; 627; 981; 1323; 1677; 4480; 4596
SspD5I	!NNNNNNNNNTCACC	6	869; 1184; 1565; 1880; 2525; 3586
SstI	GAGCT!C	1	2004
SstII	CCGC!GG	1	2036
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	33	92; 118; 285; 851; 875; 1001; 1013; 1067; 1187; 1272; 1289; 1310; 1547; 1571; 1697; 1709; 1763; 1883; 1968; 1985; 2047; 2608; 2730; 3085; 3106; 3419; 3822; 3961; 4032; 4302; 4434; 4664; 5102
Sth132I	!NNNNNNNNNCGGG	20	15; 407; 470; 1296; 2027; 2609; 2661; 2762; 3489; 3531; 3564; 4068; 4177; 4206; 4353; 4457; 4488; 4941; 4985; 5193
Sth302II	CC!GG	34	602; 723; 1084; 1114; 1147; 1182; 1204; 1267; 1305; 1419; 1780; 1810; 1843; 1878; 1900; 1963; 2042; 2052; 2628; 3315; 3392; 3414; 3442; 3573; 3663; 3730; 3911; 4186; 4194; 4286; 4760; 4950; 4976; 5123
StrI	C!TCGAG	1	1997
StsI	GGATGNNNNNNNNNN!	5	1321; 3277; 3734; 3759; 4213
StsI	!NNNNNNNNNNNNNNNCATCC	7	768; 900; 1185; 1464; 1596; 1881; 3081
StuI	AGG!CCT	1	3230
StyI	C!CWVGG	6	360; 611; 3138; 3231; 3841; 4246
StyD4I	!CCNGG	31	88; 281; 785; 880; 929; 941; 1179; 1264; 1302; 1303; 1481; 1576; 1625; 1637; 1875; 1960; 2039; 2040; 2943; 2998; 3015; 3411; 3571; 3794; 4184; 4373; 4476; 4948; 5166; 5179; 5300
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 669; 1365; 2029; 2500; 3789; 3905; 4013; 4336; 4827; 5297; 5368
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 749; 1091; 1445; 1787; 2472; 2484; 2527; 2637; 3528; 3715; 4496; 4629
TaqI	T!CGA	18	779; 1241; 1475; 1937; 1998; 2011; 2024; 2558; 3249; 3522; 3678; 3702; 3738; 3900; 4091; 4136; 4391; 5229
TaqII	GACCGANNNNNNNNNN!	5	766; 1462; 2429; 3446; 4114
TaqII	!NNNNNNNNNTCGGTC	1	4358
TaqII	CACCCANNNNNNNNNN!	2	742; 1438
TaqII	!NNNNNNNNNTGGGTG	3	172; 3313; 3905
TasI	!AATT	11	18; 2013; 2159; 2223; 2301; 2327; 2338; 2985; 3057; 3149; 4567
TatI	W!GTACW	8	217; 297; 330; 381; 653; 1235; 1349; 1931
TauI	GCSG!C	25	623; 914; 1028; 1031; 1082; 1319; 1610; 1724; 1727; 1778; 2729; 2743; 3181; 3320; 3383; 3478; 3643; 3646; 3885; 3981; 4022; 4150; 4504; 5132; 5287
TfiI	G!AWTC	7	740; 1436; 3894; 4028; 4138; 4175; 5353
TliI	C!TCGAG	1	1997
TruII	T!TAA	15	7; 2110; 2171; 2292; 2313; 2324; 2336; 2347; 2364; 2462; 2733; 4552; 4566; 4571; 4623
Tru9I	T!TAA	15	7; 2110; 2171; 2292; 2313; 2324; 2336; 2347; 2364; 2462; 2733; 4552; 4566; 4571; 4623
TscAI	CASTGNN!	5	2255; 3538; 4648; 4919; 4932
TseI	G!CWGC	19	797; 809; 1215; 1493; 1505; 1911; 2185; 2704; 3369; 3470; 3512; 3553; 3646; 4033; 4486; 4712; 4918; 4921; 4986
TsoI	TARCCANNNNNNNNNN!	2	2381; 2728
TsoI	!NNNNNNNNNTGGYTA	2	2186; 3938
Tsp45I	!GTSAC	5	747; 1443; 2698; 3529; 3835
Tsp509I	!AATT	11	18; 2013; 2159; 2223; 2301; 2327; 2338; 2985; 3057; 3149; 4567
TspDTI	ATGAANNNNNNNNNN!	5	1027; 1723; 2167; 3468; 4172
TspDTI	!NNNNNNNNNTTCAT	4	26; 3886; 4342; 4549

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspEI	!AATT	11	18; 2013; 2159; 2223; 2301; 2327; 2338; 2985; 3057; 3149; 4567
TspGWI	ACGGANNNNNNNNNNN!	1	4284
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	2	1303; 2040
TspRI	CASTGNN!	5	2255; 3538; 4648; 4919; 4932
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3527
Tth111II	CAARCANNNNNNNNNN!	3	871; 1567; 4736
Tth111II	!NNNNNNNNNTGYTTG	3	3844; 4704; 4743
UnbI	!GGNCC	19	82; 275; 788; 814; 1002; 1094; 1262; 1484; 1510; 1698; 1790; 1958; 2037; 2515; 3924; 4369; 4415; 4473; 4506
Van91I	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	5	823; 976; 1519; 1672; 5013
VpaK11AI	!GGWCC	4	814; 1510; 3924; 4369
VpaK11BI	G!GWCC	4	815; 1511; 3925; 4370
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	2	628; 1324
XapI	R!AATTY	4	2013; 2223; 2327; 2338
XbaI	T!CTAGA	1	2056
XceI	RCATG!Y	4	2979; 3051; 3814; 5331
XcmI	CCANNNNN!NNNNTGG	2	1047; 1743
XhoI	C!TCGAG	1	1997
XhoII	R!GATCY	13	585; 839; 1297; 1535; 2044; 2053; 3580; 3826; 4218; 4577; 4589; 4675; 4686
XmaI	C!CCGGG	2	1303; 2040
XmaJI	C!CTAGG	2	3231; 4246
XmiI	GT!MKAC	1	2024
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	8	592; 2057; 2258; 2676; 3232; 4247; 4581; 4834
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	2	1237; 1933
Zsp2I	ATGCA!T	3	2981; 3053; 5384