

pHcRed-Tandem-C3 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2191; 2396
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2479; 3435; 5224
AatI	AGG!CCT	1	3229
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	2023
AccII	CG!CG	18	60; 1166; 1862; 2034; 2296; 2332; 2708; 2728; 2752; 2783; 3474; 3775; 4213; 4297; 4360; 4429; 4702; 5283
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	3	643; 1339; 3510
Acc36I	ACCTGCNNNN!	4	1286; 1982; 3676; 4126
Acc36I	!NNNNNNNNGCAGGT	1	3295
Acc65I	G!GTACC	1	2028
AccB1I	G!GYRCC	15	465; 664; 724; 757; 982; 1115; 1360; 1420; 1453; 1678; 1811; 2028; 2561; 3407; 3442
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	2832; 4021
AccBSI	GAG!CGG	6	620; 1025; 1316; 1721; 2668; 4075
AceIII	CAGCTCNNNNNNN!	1	2364
AceIII	!NNNNNNNNGAGCTG	3	552; 1231; 1927
AcI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 833; 923; 995; 1529; 1619; 1691; 2032; 2723; 2726; 2740; 2830; 3078; 3090; 3099; 3111; 3121; 3132; 3178; 3317; 3380; 3882; 3927; 3993; 4019; 4144; 4147; 4295; 4427; 4734; 4878; 5374
AcI	G!CGG	36	370; 403; 528; 620; 911; 1025; 1028; 1079; 1218; 1316; 1607; 1721; 1724; 1775; 1914; 2034; 2668; 2695; 2783; 2893; 3474; 3538; 3639; 3642; 3922; 3977; 4075; 4213; 4360; 4500; 4743; 4988; 5109; 5128; 5255; 5283
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	9	2051; 2060; 3276; 3587; 3833; 4225; 4584; 4682; 4768
AcIWI	!NNNNNGATCC	8	580; 834; 1530; 2038; 3652; 4196; 4583; 4680
AcoI	Y!GGCCR	8	675; 1080; 1371; 1776; 3314; 3488; 3879; 3906
AcsI	R!AATY	4	2012; 2222; 2326; 2337
AcuI	CTGAAGNNNNNNNNNNNNNNN!	6	649; 1120; 1345; 1816; 3554; 3986
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4784
AcvI	CAC!GTG	2	747; 1443
AcyI	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3408; 4110; 4189
AdeI	CACNNN!GTG	1	2524
AfaI	GT!AC	20	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1237; 1249; 1270; 1351; 1501; 1753; 1933; 1945; 1966; 2030; 3714
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	30	49; 630; 721; 1000; 1066; 1104; 1145; 1202; 1326; 1417; 1696; 1762; 1800; 1841; 1898; 2420; 2746; 3138; 3389; 3933; 4214; 4246; 4378; 4413; 4463; 4495; 4848; 5127; 5293; 5311
AfiII	C!TTAAG	1	2002
AfiIII	A!CRYGT	2	2294; 5326
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	9	687; 855; 1383; 1551; 2819; 2863; 2873; 3286; 4862
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; 2942; 2997; 3014; 3793; 4372; 4475; 5165; 5178; 5299
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	2982; 3054
AlfI	!NNNNNNNNNGCANNNNNTGC	2	2948; 3020
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	2490
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	1	2458
AluI	AG!CT	19	566; 863; 1142; 1245; 1559; 1838; 1941; 2007; 2187; 2354; 2611; 2906; 3194; 3514; 3972; 4769; 5026; 5072; 5162
AluBI	AG!CT	19	566; 863; 1142; 1245; 1559; 1838; 1941; 2007; 2187; 2354; 2611; 2906; 3194; 3514; 3972; 4769; 5026; 5072; 5162
AlwI	GGATCNNNN!	9	2051; 2060; 3276; 3587; 3833; 4225; 4584; 4682; 4768
AlwI	!NNNNNGATCC	8	580; 834; 1530; 2038; 3652; 4196; 4583; 4680
Alw21I	GWGCW!C	7	827; 980; 1523; 1676; 3521; 3711; 5016
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	4	2832; 3250; 4269; 4397
Alw44I	G!TGCAC	5	823; 976; 1519; 1672; 5012
AlwNI	CAGNN!CTG	4	1215; 1911; 4509; 4917
Ama87I	C!YCGRG	8	868; 1060; 1282; 1303; 1564; 1756; 1978; 2039
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	2040
ApaBI	GCANNNNN!TGC	3	2976; 3048; 4510
ApaLI	G!TGCAC	5	823; 976; 1519; 1672; 5012
ApeKI	G!CWGC	19	797; 809; 1215; 1493; 1505; 1911; 2184; 2703; 3368; 3469; 3511; 3552; 3645; 4032; 4485; 4711; 4917; 4920; 4985
ApoI	R!AATTY	4	2012; 2222; 2326; 2337
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3923
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	3717; 4370; 5208
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3807
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	4	785; 1058; 1481; 1754
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	3236
AquIII	!NNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	5	846; 972; 1542; 1668; 3978
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	3	1254; 1950; 2023
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	3	1222; 1918; 1991
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 840; 960; 1122; 1298; 1536; 1656; 1818; 2044; 2053; 2066; 3246; 3250; 3269; 3580; 3658; 3739; 3748; 3826; 4202; 4218; 4577; 4589; 4667; 4675; 4686; 4761
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3526
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	2028
AspA2I	C!CTAGG	2	3230; 4245
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	29	597; 644; 760; 1166; 1168; 1340; 1456; 1862; 1864; 2674; 2682; 2708; 2730; 2739; 2752; 2783; 3402; 3410; 3474; 3511; 3777; 4037; 4213; 4299; 4702; 4811; 4985; 5085; 5152
AspS9I	G!GNCC	19	83; 276; 789; 815; 1003; 1095; 1263; 1485; 1511; 1699; 1791; 1959; 2037; 2515; 3924; 4369; 4415; 4473; 4506
AssI	AGT!ACT	2	1237; 1933
AsuII	TT!CGAA	2	2010; 4090
AsuC2I	CC!SGG	12	1181; 1266; 1304; 1305; 1877; 1962; 2040; 2041; 3412; 3572; 4185; 4949
AsuHPI	GGTGANNNNNNNN!	7	376; 627; 981; 1323; 1677; 4479; 4595
AsuHPI	!NNNNNNNTCACC	6	870; 1185; 1566; 1881; 2525; 3586
AsuNHI	G!CTAGC	1	591

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AvaI	C!YCGRG	8	868; 1060; 1282; 1303; 1564; 1756; 1978; 2039
AvaII	G!GWCC	4	815; 1511; 3924; 4369
AviII	TGC!GCA	3	643; 1339; 3510
AvrII	C!CTAGG	2	3230; 4245
AxyI	CC!TNAGG	2	2888; 4520
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	10	667; 827; 980; 1363; 1523; 1676; 2040; 3354; 3447; 5016
BalI	TGG!CCA	1	3490
BamHI	G!GATCC	1	2043
BanI	G!GYRCC	15	465; 664; 724; 757; 982; 1115; 1360; 1420; 1453; 1678; 1811; 2028; 2561; 3407; 3442
BanII	GRGCY!C	6	1040; 1736; 2040; 2599; 3773; 4483
BanIII	AT!CGAT	1	3248
BarI	GAAGNNNNNTACNNNNNNNNNN!	2	1251; 1947
BarI	!NNNNNNNGTANNNNNCTTC	0	
BarI	GTANNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	2	1219; 1915
BasI	CCANNN!NTGG	0	
BauI	C!ACGAG	2	4126; 5153
BauI	C!TCGTG	1	4000
BbeI	GGCGC!C	3	761; 1457; 3411
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	2	747; 1443
BbsI	GAAGACNN!	0	
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	2978; 3050; 3813
BbvI	GCAGCNNNNNNNN!	8	821; 1517; 2196; 3481; 3523; 4044; 4497; 4997
BbvI	!NNNNNNNNNNNGCTGC	10	784; 1202; 1480; 1898; 2690; 3355; 3539; 3632; 4698; 4904
Bbv12I	GWGCW!C	7	827; 980; 1523; 1676; 3521; 3711; 5016
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	4	2538; 3102; 3628; 4130
BccI	!NNNNNGATGG	6	1086; 1302; 1782; 2506; 3286; 3714
BceAI	ACGGCNNNNNNNNNN!	16	690; 723; 822; 924; 996; 1017; 1083; 1386; 1419; 1518; 1620; 1692; 1713; 1779; 3834; 4321
BceAI	!NNNNNNNNNNNGCCGT	5	1144; 1840; 2549; 3367; 4826
Bcefl	ACGGCNNNNNNNNNN!	16	690; 723; 822; 924; 996; 1017; 1083; 1386; 1419; 1518; 1620; 1692; 1713; 1779; 3834; 4321
Bcefl	!NNNNNNNNNNNGCCGT	5	1145; 1841; 2550; 3368; 4827
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNGCANNNNNNTCG	4	699; 801; 1395; 1497
BcgI	GCANNNNNNTGCNNNNNNNNNN!	4	733; 835; 1429; 1531
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2837; 3627; 5128
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2065
BcnI	CC!SGG	12	1181; 1266; 1304; 1305; 1877; 1962; 2040; 2041; 3412; 3572; 4185; 4949
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	2088; 5261
BdaI	!NNNNNNNNNNTGANNNNNNTCA	2	2054; 5227
BfaI	C!TAG	8	592; 2056; 2257; 2675; 3231; 4246; 4580; 4833
BfiI	ACTGGGNNNNN!	1	3357
BfiI	!NNNNCCCAGT	2	289; 3109
BfmI	C!TRYAG	4	2017; 2743; 4870; 5061
BfoI	RGCGC!Y	7	598; 761; 1457; 2675; 2683; 3411; 5086
BfrI	C!TTAAG	1	2002
BfuI	GTATCCNNNNNN!	3	2837; 3627; 5128
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	1286; 1982; 3676; 4126
BfuAI	!NNNNNNNNNGCAGGT	1	3295

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BfuCI	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2043; 2052; 2065; 3245; 3249; 3268; 3579; 3657; 3738; 3747; 3825; 4201; 4217; 4576; 4588; 4666; 4674; 4685; 4760
BglI	GCCNNNN!NGGC	8	90; 212; 283; 947; 1261; 1643; 1957; 3183
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; 2185; 2704; 2726; 2740; 3178; 3317; 3369; 3380; 3470; 3475; 3512; 3553; 3640; 3643; 3646; 3882; 3978; 4019; 4033; 4147; 4486; 4501; 4712; 4918; 4921; 4986; 5129; 5284
BlnI	C!CTAGG	2	3230; 4245
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	44	622; 799; 811; 913; 1027; 1030; 1081; 1217; 1318; 1495; 1507; 1609; 1723; 1726; 1777; 1913; 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
BmcAI	AGT!ACT	2	1237; 1933
Bme18I	G!GWCC	4	815; 1511; 3924; 4369
Bme1390I	CC!NGG	31	90; 283; 787; 882; 931; 943; 1181; 1266; 1304; 1305; 1483; 1578; 1627; 1639; 1877; 1962; 2040; 2041; 2944; 2999; 3016; 3412; 3572; 3795; 4185; 4374; 4477; 4949; 5167; 5180; 5301
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	8	868; 1060; 1282; 1303; 1564; 1756; 1978; 2039
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	19	84; 277; 790; 816; 1004; 1096; 1264; 1486; 1512; 1700; 1792; 1960; 2038; 2516; 3925; 4370; 4416; 4474; 4507
BmiI	GGN!NCC	35	467; 666; 726; 759; 791; 984; 1005; 1037; 1117; 1207; 1362; 1422; 1455; 1487; 1680; 1701; 1733; 1813; 1903; 2030; 2038; 2045; 2563; 2584; 2596; 2787; 2948; 3020; 3409; 3444; 4292; 4371; 4416; 5259; 5298
BmrI	ACTGGGNNNNN!	1	3357
BmrI	!NNNNCCCAGT	2	289; 3109
BmrFI	CC!NGG	31	90; 283; 787; 882; 931; 943; 1181; 1266; 1304; 1305; 1483; 1578; 1627; 1639; 1877; 1962; 2040; 2041; 2944; 2999; 3016; 3412; 3572; 3795; 4185; 4374; 4477; 4949; 5167; 5180; 5301
BmsI	GCATCNNNNN!	10	653; 923; 1349; 1619; 2224; 2987; 3059; 3707; 3771; 4046
BmsI	!NNNNNNNNNGATGC	7	357; 1202; 1898; 3366; 3621; 3837; 5229
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	3357
BmuI	!NNNNCCCAGT	2	289; 3109
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3197; 4096
BpI	!NNNNNNNNNGAGNNNNNNCTC	2	3165; 4064
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	964; 1660; 4248
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	3	1192; 1888; 4191
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	2010; 4090
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4702; 5241
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	2	3784; 4943
BpuMI	CC!SGG	12	1181; 1266; 1304; 1305; 1877; 1962; 2040; 2041; 3412; 3572; 4185; 4949
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	4397
Bsa29I	AT!CGAT	1	3248
BsaAI	YAC!GTR	5	340; 747; 1443; 2524; 3712
BsaBI	GATNN!NNATC	2	2070; 3267
BsaHI	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3408; 4110; 4189

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BsaJI	C!CNGGG	27	360; 611; 752; 869; 881; 1046; 1303; 1448; 1565; 1577; 1742; 2032; 2039; 2942; 3014; 3137; 3172; 3181; 3230; 3571; 3840; 4245; 4372; 4373; 4475; 4476; 5166
BsaMI	GAATGCN!	1	2159
BsaMI	G!CATTC	1	2252
BsaWI	W!CCGGW	8	600; 1145; 1841; 2049; 3439; 4283; 4973; 5120
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2488
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2458
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	2409; 4316
Bsc4I	CCNNNNN!NNGG	30	49; 630; 721; 1000; 1066; 1104; 1145; 1202; 1326; 1417; 1696; 1762; 1800; 1841; 1898; 2420; 2746; 3138; 3389; 3933; 4214; 4246; 4378; 4413; 4463; 4495; 4848; 5127; 5293; 5311
BscAI	GCATCNNNN!	10	652; 922; 1348; 1618; 2223; 2986; 3058; 3706; 3770; 4045
BscAI	!NNNNNNGATGC	7	360; 1205; 1901; 3369; 3624; 3840; 5232
BseI	ACTGGN!	3	3352; 3553; 4799
BseI	C!CAGT	5	295; 2437; 3115; 4911; 4924
BseI	GATNN!NNATC	2	2070; 3267
Bse2II	CC!TNAGG	2	2888; 4520
Bse118I	R!CCGGY	9	600; 721; 1112; 1417; 1808; 2625; 3727; 3908; 4191
BseAI	T!CCGGA	0	
BseBI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2944; 2999; 3016; 3795; 4374; 4477; 5167; 5180; 5301
BseCI	AT!CGAT	1	3248
BseDI	C!CNGGG	27	360; 611; 752; 869; 881; 1046; 1303; 1448; 1565; 1577; 1742; 2032; 2039; 2942; 3014; 3137; 3172; 3181; 3230; 3571; 3840; 4245; 4372; 4373; 4475; 4476; 5166
Bse3DI	GCAATGNN!	1	3641
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	1313; 3268; 3725; 3750; 4204
BseGI	!CATCC	7	782; 914; 1199; 1478; 1610; 1895; 3094
BseJI	GATNN!NNATC	2	2070; 3267
BseLI	CCNNNNN!NNGG	30	49; 630; 721; 1000; 1066; 1104; 1145; 1202; 1326; 1417; 1696; 1762; 1800; 1841; 1898; 2420; 2746; 3138; 3389; 3933; 4214; 4246; 4378; 4413; 4463; 4495; 4848; 5127; 5293; 5311
BseMI	GCAATGNN!	1	3641
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	4534
BseMII	!NNNNNNNCTGAG	5	2879; 3181; 4062; 4634; 5043
BseNI	ACTGGN!	3	3352; 3553; 4799
BseNI	C!CAGT	5	295; 2437; 3115; 4911; 4924
BsePI	G!CGCGC	2	1164; 1860
BseRI	GAGGAGNNNNNNNNNN!	1	3226
BseRI	!NNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	10	667; 827; 980; 1363; 1523; 1676; 2040; 3354; 3447; 5016
BseXI	GCAGCNNNNNNNN!	8	821; 1517; 2196; 3481; 3523; 4044; 4497; 4997
BseXI	!NNNNNNNNNNNGCTGC	10	784; 1202; 1480; 1898; 2690; 3355; 3539; 3632; 4698; 4904
BseX3I	C!GGCCG	3	1080; 1776; 3314
BseYI	C!CCAGC	5	1039; 1735; 2951; 3023; 5022
BseYI	G!CTGGG	3	1031; 1727; 3912
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	18	60; 1166; 1862; 2034; 2296; 2332; 2708; 2728; 2752; 2783; 3474; 3775; 4213; 4297; 4360; 4429; 4702; 5283
Bsh1285I	CGRY!CG	7	605; 1083; 1113; 1779; 1809; 3317; 4992
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; 2038; 2374; 2516; 3171; 3177; 3186; 3229; 3316; 3490; 3881; 3908; 4417; 4474; 4507; 4852; 5286; 5304; 5315
BshNI	G!GYRCC	15	465; 664; 724; 757; 982; 1115; 1360; 1420; 1453; 1678; 1811; 2028; 2561; 3407; 3442
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	3248
BsiEI	CGRY!CG	7	605; 1083; 1113; 1779; 1809; 3317; 4992

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BsiHKAI	GWGCW!C	7	827; 980; 1523; 1676; 3521; 3711; 5016
BsiHKCI	C!YCGRG	8	868; 1060; 1282; 1303; 1564; 1756; 1978; 2039
BsiSI	C!CGG	34	601; 722; 1083; 1113; 1146; 1181; 1203; 1266; 1304; 1418; 1779; 1809; 1842; 1877; 1899; 1962; 2040; 2050; 2626; 3313; 3390; 3412; 3440; 3571; 3661; 3728; 3909; 4184; 4192; 4284; 4758; 4948; 4974; 5121
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	30	49; 630; 721; 1000; 1066; 1104; 1145; 1202; 1326; 1417; 1696; 1762; 1800; 1841; 1898; 2420; 2746; 3138; 3389; 3933; 4214; 4246; 4378; 4413; 4463; 4495; 4848; 5127; 5293; 5311
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3559; 4091; 4200
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2924; 2996; 3060; 4355
BsmI	GAATGCN!	1	2159
BsmI	G!CATTC	1	2252
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	4	2832; 3250; 4269; 4397
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3559; 4091; 4200
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2924; 2996; 3060; 4355
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; 2038; 2374; 2516; 3171; 3177; 3186; 3229; 3316; 3490; 3881; 3908; 4417; 4474; 4507; 4852; 5286; 5304; 5315
Bso3II	GGTCTCN!	0	
Bso3II	!NNNNNGAGACC	1	4397
BsoBI	C!YCGRG	8	868; 1060; 1282; 1303; 1564; 1756; 1978; 2039
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 611; 3137; 3840
Bsp24I	GACNNNNNTGGNNNNNNNNNNNN!	2	289; 4211
Bsp24I	!NNNNNNCCANNNNNGTC	2	4632; 4810
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	4664; 4842
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4179
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	2010; 4090
Bsp120I	G!GGCCC	1	2036
Bsp143I	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2043; 2052; 2065; 3245; 3249; 3268; 3579; 3657; 3738; 3747; 3825; 4201; 4217; 4576; 4588; 4666; 4674; 4685; 4760
Bsp1286I	GDGCH!C	17	667; 827; 980; 1040; 1363; 1523; 1676; 1736; 2040; 2599; 3354; 3447; 3521; 3711; 3773; 4483; 5016
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; 2032; 2723; 2726; 2740; 2830; 3078; 3090; 3099; 3111; 3121; 3132; 3178; 3317; 3380; 3882; 3927; 3993; 4019; 4144; 4147; 4295; 4427; 4734; 4878; 5374
BspACI	G!CGG	36	370; 403; 528; 620; 911; 1025; 1028; 1079; 1218; 1316; 1607; 1721; 1724; 1775; 1914; 2034; 2668; 2695; 2783; 2893; 3474; 3538; 3639; 3642; 3922; 3977; 4075; 4213; 4360; 4500; 4743; 4988; 5109; 5128; 5255; 5283
BspCNI	CTCAGNNNNNNNNNN!	1	4533
BspCNI	!NNNNNNNCTGAG	5	2880; 3182; 4063; 4635; 5044
BspDI	AT!CGAT	1	3248
BspD6I	GACTCNNNN!	4	418; 2481; 4087; 4964
BspD6I	!NNNNNGAGTC	2	2444; 2876
BspEI	T!CCGGA	0	
BspFNI	CG!CG	18	60; 1166; 1862; 2034; 2296; 2332; 2708; 2728; 2752; 2783; 3474; 3775; 4213; 4297; 4360; 4429; 4702; 5283
BspHI	T!CATGA	2	2834; 4606
BspLI	GGN!NCC	35	467; 666; 726; 759; 791; 984; 1005; 1037; 1117; 1207; 1362; 1422; 1455; 1487; 1680; 1701; 1733; 1813; 1903; 2030; 2038; 2045; 2563; 2584; 2596; 2787; 2948; 3020; 3409; 3444; 4292; 4371; 4416; 5259; 5298
BspMI	ACCTGCNNNN!	4	1286; 1982; 3676; 4126
BspMI	!NNNNNNNGCAGGT	1	3295
BspOI	GCTAG!C	1	595

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspPI	GGATCNNNN!	9	2051; 2060; 3276; 3587; 3833; 4225; 4584; 4682; 4768
BspPI	!NNNNNGATCC	8	580; 834; 1530; 2038; 3652; 4196; 4583; 4680
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3752; 3962
BspTI	C!TTAAG	1	2002
BspT104I	TT!CGAA	2	2010; 4090
BspT107I	G!GYRCC	15	465; 664; 724; 757; 982; 1115; 1360; 1420; 1453; 1678; 1811; 2028; 2561; 3407; 3442
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	4397
BsrI	ACTGGN!	3	3352; 3553; 4799
BsrI	C!CAGT	5	295; 2437; 3115; 4911; 4924
BsrBI	CCG!CTC	2	2832; 4021
BsrBI	GAG!CGG	6	620; 1025; 1316; 1721; 2668; 4075
BsrDI	GCAATGNN!	1	3641
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	9	600; 721; 1112; 1417; 1808; 2625; 3727; 3908; 4191
BsrGI	T!GTACA	2	653; 1349
BsrSI	ACTGGN!	3	3352; 3553; 4799
BsrSI	C!CAGT	5	295; 2437; 3115; 4911; 4924
BssAI	R!CCGGY	9	600; 721; 1112; 1417; 1808; 2625; 3727; 3908; 4191
BssECI	C!CNNGG	27	360; 611; 752; 869; 881; 1046; 1303; 1448; 1565; 1577; 1742; 2032; 2039; 2942; 3014; 3137; 3172; 3181; 3230; 3571; 3840; 4245; 4372; 4373; 4475; 4476; 5166
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; 2038; 2039; 2942; 2997; 3014; 3410; 3570; 3793; 4183; 4372; 4475; 4947; 5165; 5178; 5299
BssMI	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2043; 2052; 2065; 3245; 3249; 3268; 3579; 3657; 3738; 3747; 3825; 4201; 4217; 4576; 4588; 4666; 4674; 4685; 4760
BssNI	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3408; 4110; 4189
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4126; 5153
BssSI	C!TCGTG	1	4000
BssTII	C!CWWGG	6	360; 611; 3137; 3230; 3840; 4245
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2875; 3752; 3962
Bst98I	C!TTAAG	1	2002
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3408; 4110; 4189
BstAFI	C!TTAAG	1	2002
BstAPI	GCANNNN!NTGC	3	2975; 3047; 4509
BstAUI	T!GTACA	2	653; 1349
BstBI	TT!CGAA	2	2010; 4090
Bst2BI	C!ACGAG	2	4126; 5153
Bst2BI	C!TCGTG	1	4000
BstBAI	YAC!GTR	5	340; 747; 1443; 2524; 3712
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 669; 1365; 2028; 2499; 3788; 3904; 4012; 4335; 4826; 5296; 5367
BstC8I	GCN!NGC	38	86; 279; 593; 625; 723; 1072; 1166; 1257; 1321; 1419; 1768; 1862; 1953; 2036; 2627; 2670; 2684; 2957; 2976; 3029; 3048; 3302; 3488; 3707; 3773; 3779; 3811; 3852; 3856; 3910; 4193; 4380; 4427; 4483; 4505; 4716; 5276; 5313
BstDEI	C!TNAG	6	2888; 3190; 4071; 4520; 4643; 5052
BstDSI	C!CRYGG	5	360; 611; 2032; 3137; 3840
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	2	628; 1324
BstF5I	GGATGNN!	5	1313; 3268; 3725; 3750; 4204
BstF5I	!CATCC	7	782; 914; 1199; 1478; 1610; 1895; 3094
BstFNI	CG!CG	18	60; 1166; 1862; 2034; 2296; 2332; 2708; 2728; 2752; 2783; 3474; 3775; 4213; 4297; 4360; 4429; 4702; 5283
BstH2I	RGCGC!Y	7	598; 761; 1457; 2675; 2683; 3411; 5086
BstHHI	GCG!C	29	597; 644; 760; 1166; 1168; 1340; 1456; 1862; 1864; 2674; 2682; 2708; 2730; 2739; 2752; 2783; 3402; 3410; 3474; 3511; 3777; 4037; 4213; 4299; 4702; 4811; 4985; 5085; 5152

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; 2046; 2055; 2068; 3248; 3252; 3271; 3582; 3660; 3741; 3750; 3828; 4204; 4220; 4579; 4591; 4669; 4677; 4688; 4763
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	4	2832; 3250; 4269; 4397
BstMBI	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2043; 2052; 2065; 3245; 3249; 3268; 3579; 3657; 3738; 3747; 3825; 4201; 4217; 4576; 4588; 4666; 4674; 4685; 4760
BstMCI	CGRY!CG	7	605; 1083; 1113; 1779; 1809; 3317; 4992
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; 2635; 2665; 2692; 2734; 2975; 3047; 3098; 3177; 3399; 3483; 3506; 3645; 3768; 3851; 4118; 4305; 4509; 4708; 5280
BstNI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2944; 2999; 3016; 3795; 4374; 4477; 5167; 5180; 5301
BstNSI	RCATG!Y	4	2978; 3050; 3813; 5330
BstOI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2944; 2999; 3016; 3795; 4374; 4477; 5167; 5180; 5301
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; 2038; 2039; 2942; 2997; 3014; 3410; 3570; 3793; 4183; 4372; 4475; 4947; 5165; 5178; 5299
BstSFI	C!TRYAG	4	2017; 2743; 4870; 5061
BstSLI	GKGCM!C	10	667; 827; 980; 1363; 1523; 1676; 2040; 3354; 3447; 5016
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	18	60; 1166; 1862; 2034; 2296; 2332; 2708; 2728; 2752; 2783; 3474; 3775; 4213; 4297; 4360; 4429; 4702; 5283
Bst2UI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2944; 2999; 3016; 3795; 4374; 4477; 5167; 5180; 5301
BstVII	GCAGCNNNNNNN!	8	821; 1517; 2196; 3481; 3523; 4044; 4497; 4997
BstVII	!NNNNNNNNNNNGCTGC	10	784; 1202; 1480; 1898; 2690; 3355; 3539; 3632; 4698; 4904
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 839; 1297; 1535; 2043; 2052; 3579; 3825; 4217; 4576; 4588; 4674; 4685
BstYI	R!GATCY	13	585; 839; 1297; 1535; 2043; 2052; 3579; 3825; 4217; 4576; 4588; 4674; 4685
BstZI	C!GGCCG	3	1080; 1776; 3314
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2837; 3627; 5128
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3248
Bsu36I	CC!TNAGG	2	2888; 4520
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; 2038; 2374; 2516; 3171; 3177; 3186; 3229; 3316; 3490; 3881; 3908; 4417; 4474; 4507; 4852; 5286; 5304; 5315
BsuTUI	AT!CGAT	1	3248
BtgI	C!CRYGG	5	360; 611; 2032; 3137; 3840
BtgZI	GCGATGNNNNNNNNN!	2	2525; 3860
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 3679; 4023
BthCI	GCNG!C	44	623; 800; 812; 914; 1028; 1031; 1082; 1218; 1319; 1496; 1508; 1610; 1724; 1727; 1778; 1914; 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
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2247
BtsCI	GGATGNN!	5	1313; 3268; 3725; 3750; 4204
BtsCI	!CATCC	7	782; 914; 1199; 1478; 1610; 1895; 3094
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	1286; 1982; 3676; 4126
BveI	!NNNNNNNNGCAGGT	1	3295

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; 2036; 2627; 2670; 2684; 2957; 2976; 3029; 3048; 3302; 3488; 3707; 3773; 3779; 3811; 3852; 3856; 3910; 4193; 4380; 4427; 4483; 4505; 4716; 5276; 5313
CaiI	CAGNNN!CTG	4	1215; 1911; 4509; 4917
CciI	T!CATGA	2	2834; 4606
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	352; 3697; 3702; 3900; 4041
CdiI	C!GATG	2	2511; 3846
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5280
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3069; 3111
CelII	GC!TNAGC	0	
CfoI	GCG!C	29	597; 644; 760; 1166; 1168; 1340; 1456; 1862; 1864; 2674; 2682; 2708; 2730; 2739; 2752; 2783; 3402; 3410; 3474; 3511; 3777; 4037; 4213; 4299; 4702; 4811; 4985; 5085; 5152
CfrI	Y!GGCCR	8	675; 1080; 1371; 1776; 3314; 3488; 3879; 3906
Cfr9I	C!CCGGG	2	1303; 2039
Cfr10I	R!CCGGY	9	600; 721; 1112; 1417; 1808; 2625; 3727; 3908; 4191
Cfr13I	G!GNCC	19	83; 276; 789; 815; 1003; 1095; 1263; 1485; 1511; 1699; 1791; 1959; 2037; 2515; 3924; 4369; 4415; 4473; 4506
Cfr42I	CCGC!GG	1	2035
ChaI	GATC!	27	589; 843; 963; 1125; 1301; 1539; 1659; 1821; 2047; 2056; 2069; 3249; 3253; 3272; 3583; 3661; 3742; 3751; 3829; 4205; 4221; 4580; 4592; 4670; 4678; 4689; 4764
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	3225; 4665; 4765; 4843
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2892; 2987; 4179; 4729; 5284
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2926; 3021; 4213; 4763; 5318
CjeI	!NNNNNNNNCCANNNNNNGT	4	3191; 4631; 4731; 4809
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	4	1317; 2013; 4665; 4843
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 4179; 4778
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 4212; 4811
CjePI	!NNNNNNNNCCANNNNNNNNTC	4	1284; 1980; 4632; 4810
ClaI	AT!CGAT	1	3248
CpoI	CG!GWCCG	1	3924
CseI	GACGCNNNNN!	3	526; 4118; 4197
CseI	!NNNNNNNNNNGCGTC	3	2741; 4636; 5214
CsiI	A!CCWGGT	1	2997
CspI	CG!GWCCG	1	3924
Csp6I	G!TAC	20	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1236; 1248; 1269; 1350; 1500; 1752; 1932; 1944; 1965; 2029; 3713
Csp45I	TT!CGAA	2	2010; 4090
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	4	656; 1352; 2688; 4297
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	22	301; 361; 612; 657; 735; 1176; 1353; 1431; 1872; 2835; 2975; 3047; 3138; 3279; 3624; 3810; 3841; 3867; 4223; 4607; 5327; 5378
CviJI	RG!CY	111	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; 2007; 2038; 2077; 2187; 2354; 2374; 2516; 2597; 2611; 2625; 2906; 2947; 3019; 3142; 3171; 3177; 3186; 3194; 3217; 3229; 3235; 3316; 3333; 3341; 3368; 3393; 3477; 3486; 3490; 3514; 3552; 3628; 3645; 3664; 3727; 3771; 3781; 3798; 3881; 3908; 3912; 3949; 3972; 3988; 4168; 4195; 4256; 4378; 4417; 4474; 4481; 4488; 4507; 4518; 4769; 4798; 4841; 4852; 4917; 4996; 5021; 5026; 5072; 5162; 5260; 5286; 5304; 5315

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	111	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; 2007; 2038; 2077; 2187; 2354; 2374; 2516; 2597; 2611; 2625; 2906; 2947; 3019; 3142; 3171; 3177; 3186; 3194; 3217; 3229; 3235; 3316; 3333; 3341; 3368; 3393; 3477; 3486; 3490; 3514; 3552; 3628; 3645; 3664; 3727; 3771; 3781; 3798; 3881; 3908; 3912; 3949; 3972; 3988; 4168; 4195; 4256; 4378; 4417; 4474; 4481; 4488; 4507; 4518; 4769; 4798; 4841; 4852; 4917; 4996; 5021; 5026; 5072; 5162; 5260; 5286; 5304; 5315
CviQI	G!TAC	20	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1236; 1248; 1269; 1350; 1500; 1752; 1932; 1944; 1965; 2029; 3713
DdeI	C!TNAG	6	2888; 3190; 4071; 4520; 4643; 5052
DinI	GGC!GCC	3	759; 1455; 3409
DpnI	GA!TC	27	587; 841; 961; 1123; 1299; 1537; 1657; 1819; 2045; 2054; 2067; 3247; 3251; 3270; 3581; 3659; 3740; 3749; 3827; 4203; 4219; 4578; 4590; 4668; 4676; 4687; 4762
DpnII	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2043; 2052; 2065; 3245; 3249; 3268; 3579; 3657; 3738; 3747; 3825; 4201; 4217; 4576; 4588; 4666; 4674; 4685; 4760
DraI	TTT!AAA	3	2110; 4552; 4571
DraII	RG!GNCCY	3	815; 1511; 4506
DraIII	CACNNN!GTG	1	2524
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	2	266; 4888
DraRI	!NNNNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	2479; 3435; 5224
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2479; 3435; 5224
EaeI	Y!GGCCR	8	675; 1080; 1371; 1776; 3314; 3488; 3879; 3906
EagI	C!GGCCG	3	1080; 1776; 3314
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2875; 3752; 3962
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	3	2875; 3752; 3962
EciI	GGCGGANNNNNNNNNNNN!	4	2908; 3937; 5124; 5270
EciI	!NNNNNNNNNTCCGCC	4	496; 3079; 3100; 3121
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	3	1080; 1776; 3314
Eco24I	GRGCY!C	6	1040; 1736; 2040; 2599; 3773; 4483
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	4397
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	815; 1511; 3924; 4369
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	3	1080; 1776; 3314
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	6	649; 1120; 1345; 1816; 3554; 3986
Eco57I	!NNNNNNNNNNNNNNNNCTTCAG	1	4784
Eco72I	CAC!GTG	2	747; 1443
Eco81I	CC!TNAGG	2	2888; 4520
Eco88I	C!YCGRG	8	868; 1060; 1282; 1303; 1564; 1756; 1978; 2039
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWVGG	6	360; 611; 3137; 3230; 3840; 4245
Eco147I	AGG!CCT	1	3229
EcoHI	!CCSGG	12	1179; 1264; 1302; 1303; 1875; 1960; 2038; 2039; 3410; 3570; 4183; 4947
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	9	649; 964; 1120; 1345; 1660; 1816; 3554; 3986; 4248
Eco57MI	!NNNNNNNNNNNNNNNNCTYCAG	4	1192; 1888; 4191; 4784
EcoNI	CCTNN!NNNAGG	2	628; 1324
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	3	815; 1511; 4506
EcoRI	G!AATC	1	2012

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; 2942; 2997; 3014; 3793; 4372; 4475; 5165; 5178; 5299
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 611; 3137; 3230; 3840; 4245
EcoT22I	ATGCA!T	3	2980; 3052; 5383
EcoT38I	GRGCY!C	6	1040; 1736; 2040; 2599; 3773; 4483
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	3	759; 1455; 3409
EheI	GGC!GCC	3	759; 1455; 3409
ErhI	C!CWWGG	6	360; 611; 3137; 3230; 3840; 4245
EsaBC3I	TC!GA	18	780; 1242; 1476; 1938; 1999; 2011; 2024; 2558; 3249; 3522; 3678; 3702; 3738; 3900; 4091; 4136; 4391; 5229
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	22	304; 364; 615; 660; 738; 1179; 1356; 1434; 1875; 2838; 2978; 3050; 3141; 3282; 3627; 3813; 3844; 3870; 4226; 4610; 5330; 5381
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; 2070; 2080; 2146; 2191; 2396; 2824; 2836; 2967; 2976; 3039; 3048; 3072; 3139; 3163; 3280; 3344; 3625; 3650; 3811; 3842; 3868; 3940; 4156; 4224; 4302; 4354; 4515; 4532; 4534; 4536; 4608; 4886; 5075; 5191; 5264; 5328; 5379
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	3	879; 1575; 3748
FalI	!NNNNNNNNAAGNNNNNCTT	3	847; 1543; 3716
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3559; 4091; 4200
FaqI	!NNNNNNNNNNNNNGTCCC	4	2924; 2996; 3060; 4355
FatI	!CATG	22	300; 360; 611; 656; 734; 1175; 1352; 1430; 1871; 2834; 2974; 3046; 3137; 3278; 3623; 3809; 3840; 3866; 4222; 4606; 5326; 5377
FauI	CCCGCNNNN!	10	93; 119; 286; 1002; 1698; 2730; 3085; 3106; 4302; 4434
FauI	!NNNNNNGCGGG	6	2027; 2661; 3531; 4068; 4206; 4353
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2065
FblI	GT!MKAC	1	2023
FmuI	GGNC!C	19	86; 279; 792; 818; 1006; 1098; 1266; 1488; 1514; 1702; 1794; 1962; 2040; 2518; 3927; 4372; 4418; 4476; 4509
Fnu4HI	GC!NGC	44	621; 798; 810; 912; 1026; 1029; 1080; 1216; 1317; 1494; 1506; 1608; 1722; 1725; 1776; 1912; 2185; 2704; 2726; 2740; 3178; 3317; 3369; 3380; 3470; 3475; 3512; 3553; 3640; 3643; 3646; 3882; 3978; 4019; 4033; 4147; 4486; 4501; 4712; 4918; 4921; 4986; 5129; 5284
FokI	GGATGNNNNNNNNN!	5	1320; 3275; 3732; 3757; 4211
FokI	!NNNNNNNNNNNNNCATCC	7	769; 901; 1186; 1465; 1597; 1882; 3081
FriOI	GRGCY!C	6	1040; 1736; 2040; 2599; 3773; 4483
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	3	643; 1339; 3510
FspAI	RTGC!GCAY	2	643; 1339
FspBI	C!TAG	8	592; 2056; 2257; 2675; 3231; 4246; 4580; 4833
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; 2045; 2060; 2091; 2130; 2144; 2285; 2380; 2404; 2427; 2450; 2468; 2490; 2511; 2530; 2549; 2578; 2599; 2613; 2639; 2727; 2753; 2802; 2843; 2861; 2900; 2916; 2954; 3011; 3026; 3083; 3103; 3117; 3134; 3148; 3185; 3200; 3243; 3326; 3393; 3424; 3444; 3459; 3504; 3518; 3584; 3598; 3617; 3633; 3674; 3694; 3741; 3791; 3807; 3827; 3852; 3872; 3895; 3922; 3940; 3966; 4006; 4032; 4056; 4112; 4126; 4154; 4197; 4218; 4253; 4297; 4385; 4409; 4431; 4451; 4467; 4488; 4502; 4521; 4605; 4625; 4653; 4668; 4702; 4744; 4771; 4786; 4831; 4855; 4869; 4891; 4917; 4937; 4961; 4987; 5035; 5054; 5073; 5099; 5134; 5179; 5209; 5223; 5274; 5288; 5313; 5329; 5350; 5379

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; 2011; 2035; 2079; 2179; 2248; 2356; 2405; 2427; 2455; 2491; 2536; 2565; 2601; 2620; 2648; 2668; 2731; 2754; 2862; 2894; 2912; 2941; 2984; 3013; 3124; 3153; 3196; 3217; 3245; 3278; 3298; 3323; 3350; 3375; 3397; 3425; 3451; 3472; 3523; 3544; 3562; 3610; 3646; 3702; 3727; 3751; 3780; 3803; 3827; 3853; 3875; 3894; 3919; 3959; 3995; 4060; 4145; 4169; 4198; 4232; 4253; 4273; 4318; 4345; 4364; 4397; 4449; 4480; 4507; 4559; 4657; 4728; 4773; 4834; 4899; 4933; 4959; 4977; 5013; 5083; 5106; 5128; 5152; 5185; 5233; 5268; 5286; 5343
Fsp4HI	GC!NGC	44	621; 798; 810; 912; 1026; 1029; 1080; 1216; 1317; 1494; 1506; 1608; 1722; 1725; 1776; 1912; 2185; 2704; 2726; 2740; 3178; 3317; 3369; 3380; 3470; 3475; 3512; 3553; 3640; 3643; 3646; 3882; 3978; 4019; 4033; 4147; 4486; 4501; 4712; 4918; 4921; 4986; 5129; 5284
GdiII	C!GGCCR	5	675; 1080; 1371; 1776; 3314
GdiII	Y!GGCCG	5	1080; 1776; 3314; 3879; 3906
GlaI	GC!GC	29	596; 643; 759; 1165; 1167; 1339; 1455; 1861; 1863; 2673; 2681; 2707; 2729; 2738; 2751; 2782; 3401; 3409; 3473; 3510; 3776; 4036; 4212; 4298; 4701; 4810; 4984; 5084; 5151
Glul	GC!NGC	44	621; 798; 810; 912; 1026; 1029; 1080; 1216; 1317; 1494; 1506; 1608; 1722; 1725; 1776; 1912; 2185; 2704; 2726; 2740; 3178; 3317; 3369; 3380; 3470; 3475; 3512; 3553; 3640; 3643; 3646; 3882; 3978; 4019; 4033; 4147; 4486; 4501; 4712; 4918; 4921; 4986; 5129; 5284
GsaI	CCCAG!C	5	1043; 1739; 2955; 3027; 5026
GsaI	GCTGG!G	3	1035; 1731; 3916
GsuI	CTGGAGNNNNNNNNNNNNNN!	3	964; 1660; 4248
GsuI	!NNNNNNNNNNNNNNCTCCAG	3	1192; 1888; 4191
HaeI	WGG!CCW	9	1255; 1291; 1951; 1987; 3229; 3490; 4852; 5304; 5315
HaeII	RGCG!Y	7	598; 761; 1457; 2675; 2683; 3411; 5086
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; 2038; 2374; 2516; 3171; 3177; 3186; 3229; 3316; 3490; 3881; 3908; 4417; 4474; 4507; 4852; 5286; 5304; 5315
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2083; 3604
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2049; 3570
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2082; 3603
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2051; 3572
HapII	C!CGG	34	601; 722; 1083; 1113; 1146; 1181; 1203; 1266; 1304; 1418; 1779; 1809; 1842; 1877; 1899; 1962; 2040; 2050; 2626; 3313; 3390; 3412; 3440; 3571; 3661; 3728; 3909; 4184; 4192; 4284; 4758; 4948; 4974; 5121
HgaI	GACGCNNNNN!	3	526; 4118; 4197
HgaI	!NNNNNNNNNNGCGTC	3	2741; 4636; 5214
HhaI	GCG!C	29	597; 644; 760; 1166; 1168; 1340; 1456; 1862; 1864; 2674; 2682; 2708; 2730; 2739; 2752; 2783; 3402; 3410; 3474; 3511; 3777; 4037; 4213; 4299; 4702; 4811; 4985; 5085; 5152
Hin1I	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3408; 4110; 4189
Hin1II	CATG!	22	304; 364; 615; 660; 738; 1179; 1356; 1434; 1875; 2838; 2978; 3050; 3141; 3282; 3627; 3813; 3844; 3870; 4226; 4610; 5330; 5381
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	2082; 3603
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	2050; 3571; 3601
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	2082; 3603; 3633
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	2050; 3571
Hin6I	G!CGC	29	595; 642; 758; 1164; 1166; 1338; 1454; 1860; 1862; 2672; 2680; 2706; 2728; 2737; 2750; 2781; 3400; 3408; 3472; 3509; 3775; 4035; 4211; 4297; 4700; 4809; 4983; 5083; 5150
HinP1I	G!CGC	29	595; 642; 758; 1164; 1166; 1338; 1454; 1860; 1862; 2672; 2680; 2706; 2728; 2737; 2750; 2781; 3400; 3408; 3472; 3509; 3775; 4035; 4211; 4297; 4700; 4809; 4983; 5083; 5150
HincII	GTY!RAC	2	2024; 2171
HindII	GTY!RAC	2	2024; 2171

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HindIII	A!AGCTT	1	2005
HinfI	G!ANTC	13	410; 740; 1436; 2451; 2473; 2883; 3893; 4027; 4079; 4137; 4174; 4956; 5352
HpaI	GTT!AAC	1	2171
HpaII	C!CGG	34	601; 722; 1083; 1113; 1146; 1181; 1203; 1266; 1304; 1418; 1779; 1809; 1842; 1877; 1899; 1962; 2040; 2050; 2626; 3313; 3390; 3412; 3440; 3571; 3661; 3728; 3909; 4184; 4192; 4284; 4758; 4948; 4974; 5121
HphI	GGTGANNNNNNNN!	7	376; 627; 981; 1323; 1677; 4479; 4595
HphI	!NNNNNNNTCACC	6	870; 1185; 1566; 1881; 2525; 3586
Hpy8I	GTN!NAC	17	201; 539; 577; 672; 825; 978; 1056; 1368; 1521; 1674; 1752; 2024; 2171; 2455; 2472; 2527; 5014
Hpy99I	CGWCG!	12	709; 1003; 1405; 1699; 2028; 3498; 3526; 3820; 3835; 4112; 4497; 5230
Hpy166II	GTN!NAC	17	201; 539; 577; 672; 825; 978; 1056; 1368; 1521; 1674; 1752; 2024; 2171; 2455; 2472; 2527; 5014
Hpy188I	TCN!GA	11	585; 2582; 3191; 3375; 3719; 4072; 4173; 4652; 4786; 5139; 5217
Hpy188III	TC!NNGA	26	648; 918; 1209; 1344; 1614; 1905; 2056; 2835; 2887; 3200; 3253; 3426; 3742; 3751; 3834; 3890; 3934; 4024; 4057; 4126; 4607; 4681; 4764; 4862; 4960; 5094
HpyAV	CCTTCNNNNNN!	9	726; 780; 828; 1422; 1476; 1524; 4053; 4160; 4839
HpyAV	!NNNNNGAAGG	19	624; 966; 1095; 1149; 1221; 1281; 1320; 1662; 1791; 1845; 1917; 1977; 2641; 3536; 4265; 4281; 4464; 4781; 5091
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 669; 1365; 2028; 2499; 3788; 3904; 4012; 4335; 4826; 5296; 5367
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 746; 1088; 1442; 1784; 2468; 2480; 2523; 2633; 3524; 3711; 4492; 4625
HpyCH4V	TG!CA	21	825; 978; 1521; 1674; 2019; 2157; 2184; 2252; 2969; 2978; 3041; 3050; 3165; 3241; 3300; 3459; 3634; 3648; 4718; 5014; 5381
HpyF3I	C!TNAG	6	2888; 3190; 4071; 4520; 4643; 5052
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; 2635; 2665; 2692; 2734; 2975; 3047; 3098; 3177; 3399; 3483; 3506; 3645; 3768; 3851; 4118; 4305; 4509; 4708; 5280
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3408; 4110; 4189
Hsp92II	CATG!	22	304; 364; 615; 660; 738; 1179; 1356; 1434; 1875; 2838; 2978; 3050; 3141; 3282; 3627; 3813; 3844; 3870; 4226; 4610; 5330; 5381
HspAI	G!CGC	29	595; 642; 758; 1164; 1166; 1338; 1454; 1860; 1862; 2672; 2680; 2706; 2728; 2737; 2750; 2781; 3400; 3408; 3472; 3509; 3775; 4035; 4211; 4297; 4700; 4809; 4983; 5083; 5150
KasI	G!GCGCC	3	757; 1453; 3407
KfI	GG!GWCCC	0	
KpnI	GGTAC!C	1	2032
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	2035
Ksp22I	T!GATCA	1	2065
KspAI	GTT!AAC	1	2171
Kzo9I	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2043; 2052; 2065; 3245; 3249; 3268; 3579; 3657; 3738; 3747; 3825; 4201; 4217; 4576; 4588; 4666; 4674; 4685; 4760
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	3752; 3962
LpnI	RG!GCGY	7	596; 759; 1455; 2673; 2681; 3409; 5084
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; 2053; 2145; 2450; 2639; 2862; 2900; 2916; 2956; 3011; 3028; 3128; 3213; 3326; 3403; 3425; 3448; 3584; 3598; 3617; 3674; 3741; 3791; 3807; 3864; 3922; 4131; 4197; 4221; 4297; 4386; 4489; 4522; 4753; 4771; 4917; 4937; 4961; 4987; 5036; 5134; 5179; 5209; 5288; 5313; 5350

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; 2025; 2491; 2611; 2668; 2731; 2929; 2941; 3001; 3013; 3245; 3290; 3333; 3375; 3397; 3425; 3472; 3534; 3556; 3646; 3713; 3736; 3780; 3875; 3894; 3919; 4068; 4169; 4212; 4269; 4359; 4462; 4489; 4507; 4743; 4780; 4933; 4959; 5099; 5117; 5152; 5233; 5286
Lsp1109I	GCAGCNNNNNNNN!	8	821; 1517; 2196; 3481; 3523; 4044; 4497; 4997
Lsp1109I	!NNNNNNNNNNNNNGCTGC	10	784; 1202; 1480; 1898; 2690; 3355; 3539; 3632; 4698; 4904
LweI	GCATCNNNNN!	10	653; 923; 1349; 1619; 2224; 2987; 3059; 3707; 3771; 4046
LweI	!NNNNNNNNNGATGC	7	357; 1202; 1898; 3366; 3621; 3837; 5229
MabI	A!CCWGGT	1	2997
MaeI	C!TAG	8	592; 2056; 2257; 2675; 3231; 4246; 4580; 4833
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 746; 1088; 1442; 1784; 2468; 2480; 2523; 2633; 3524; 3711; 4492; 4625
MaeIII	!GTNAC	14	61; 148; 497; 747; 1443; 2196; 2697; 2709; 3528; 3834; 4524; 4790; 4906; 4969
MalI	GA!TC	27	587; 841; 961; 1123; 1299; 1537; 1657; 1819; 2045; 2054; 2067; 3247; 3251; 3270; 3581; 3659; 3740; 3749; 3827; 4203; 4219; 4578; 4590; 4668; 4676; 4687; 4762
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2832; 4021
MbiI	GAG!CGG	6	620; 1025; 1316; 1721; 2668; 4075
MboI	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2043; 2052; 2065; 3245; 3249; 3268; 3579; 3657; 3738; 3747; 3825; 4201; 4217; 4576; 4588; 4666; 4674; 4685; 4760
MboII	GAAGANNNNNNNN!	9	1026; 1233; 1722; 1929; 2664; 2892; 3769; 3979; 4598
MboII	!NNNNNNNTCTTC	6	843; 1539; 4059; 4226; 4426; 4669
McaTI	GCGC!GC	2	1167; 1863
MfeI	C!AATTG	1	2158
MfiI	R!GATCY	13	585; 839; 1297; 1535; 2043; 2052; 3579; 3825; 4217; 4576; 4588; 4674; 4685
MhiI	GDGCH!C	17	667; 827; 980; 1040; 1363; 1523; 1676; 1736; 2040; 2599; 3354; 3447; 3521; 3711; 3773; 4483; 5016
MisI	TGG!CCA	1	3490
MluI	A!CGCGT	1	2294
MluNI	TGG!CCA	1	3490
MlyI	GAGTCNNNNN!	2	2460; 2892
MlyI	!NNNNNGACTC	4	404; 2467; 4073; 4950
Mly113I	GG!CGCC	3	758; 1454; 3408
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	2501
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4933; 5117
MniI	CCTCNNNNNNN!	7	2127; 3191; 4009; 4215; 4529; 4899; 5223
MniI	!NNNNNNGAGG	29	541; 654; 687; 747; 864; 897; 939; 1041; 1245; 1350; 1383; 1443; 1560; 1593; 1635; 1737; 1941; 2087; 2552; 2883; 3161; 3204; 3219; 3259; 3323; 3459; 3816; 4246; 5149
Mph1103I	ATGCA!T	3	2980; 3052; 5383
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	5	721; 1417; 2625; 3908; 4191
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	1	3490
MseI	T!TAA	16	7; 2003; 2109; 2170; 2291; 2312; 2323; 2335; 2346; 2363; 2461; 2732; 4551; 4565; 4570; 4622
MslI	CAYNN!NNRTG	7	365; 613; 649; 1048; 1345; 1744; 3845
MspI	C!CGG	34	601; 722; 1083; 1113; 1146; 1181; 1203; 1266; 1304; 1418; 1779; 1809; 1842; 1877; 1899; 1962; 2040; 2050; 2626; 3313; 3390; 3412; 3440; 3571; 3661; 3728; 3909; 4184; 4192; 4284; 4758; 4948; 4974; 5121
Msp20I	TGG!CCA	1	3490
MspA1I	CMG!CKG	5	2034; 2906; 3514; 4743; 4988
MspCI	C!TTAAG	1	2002

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; 2014; 2045; 2062; 2076; 2091; 2115; 2132; 2145; 2186; 2200; 2213; 2231; 2269; 2284; 2302; 2343; 2367; 2387; 2405; 2426; 2449; 2481; 2496; 2518; 2536; 2549; 2570; 2587; 2600; 2613; 2629; 2642; 2672; 2687; 2712; 2730; 2743; 2758; 2782; 2796; 2820; 2845; 2861; 2899; 2915; 2954; 2968; 2982; 3010; 3026; 3040; 3054; 3083; 3096; 3117; 3126; 3148; 3178; 3194; 3212; 3242; 3265; 3289; 3313; 3332; 3360; 3386; 3402; 3415; 3438; 3452; 3472; 3485; 3499; 3518; 3532; 3545; 3561; 3576; 3589; 3605; 3620; 3636; 3661; 3680; 3696; 3709; 3722; 3740; 3754; 3768; 3784; 3806; 3822; 3841; 3863; 3879; 3902; 3921; 3935; 3951; 3965; 3985; 4001; 4014; 4036; 4069; 4083; 4103; 4116; 4130; 4184; 4197; 4220; 4233; 4252; 4269; 4296; 4332; 4365; 4384; 4409; 4430; 4457; 4470; 4487; 4501; 4516; 4532; 4592; 4617; 4633; 4655; 4668; 4682; 4713; 4727; 4752; 4770; 4785; 4798; 4817; 4830; 4845; 4874; 4893; 4911; 4936; 4951; 4970; 4986; 5005; 5023; 5039; 5053; 5072; 5099; 5122; 5144; 5163; 5178; 5191; 5208; 5228; 5255; 5268; 5287; 5312; 5335; 5349; 5362; 5379
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; 2002; 2019; 2036; 2060; 2089; 2118; 2160; 2243; 2281; 2305; 2328; 2357; 2401; 2423; 2455; 2491; 2508; 2529; 2566; 2586; 2603; 2620; 2655; 2673; 2691; 2708; 2732; 2754; 2781; 2809; 2835; 2873; 2894; 2911; 2929; 2952; 2973; 3001; 3024; 3045; 3063; 3084; 3101; 3124; 3148; 3168; 3186; 3208; 3239; 3261; 3287; 3306; 3323; 3351; 3370; 3389; 3407; 3425; 3446; 3468; 3492; 3525; 3545; 3563; 3584; 3610; 3637; 3654; 3671; 3688; 3714; 3736; 3758; 3776; 3796; 3815; 3837; 3875; 3895; 3919; 3939; 3959; 3986; 4010; 4043; 4062; 4090; 4112; 4141; 4169; 4194; 4213; 4232; 4253; 4270; 4287; 4318; 4345; 4365; 4388; 4408; 4445; 4462; 4481; 4507; 4527; 4566; 4593; 4612; 4630; 4667; 4685; 4726; 4744; 4770; 4787; 4819; 4848; 4876; 4897; 4920; 4939; 4960; 4978; 4995; 5013; 5039; 5060; 5080; 5100; 5118; 5139; 5165; 5182; 5201; 5220; 5249; 5268; 5286; 5305; 5323; 5341; 5364
MspR9I	CC!NGG	31	90; 283; 787; 882; 931; 943; 1181; 1266; 1304; 1305; 1483; 1578; 1627; 1639; 1877; 1962; 2040; 2041; 2944; 2999; 3016; 3412; 3572; 3795; 4185; 4374; 4477; 4949; 5167; 5180; 5301
MssI	GTTT!AAC	0	
MunI	CA!AATTG	1	2158
MvaI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2944; 2999; 3016; 3795; 4374; 4477; 5167; 5180; 5301
Mva1269I	GAATGCN!	1	2159
Mva1269I	G!CATTC	1	2252
MvnI	CG!CG	18	60; 1166; 1862; 2034; 2296; 2332; 2708; 2728; 2752; 2783; 3474; 3775; 4213; 4297; 4360; 4429; 4702; 5283
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; 2635; 2665; 2692; 2734; 2975; 3047; 3098; 3177; 3399; 3483; 3506; 3645; 3768; 3851; 4118; 4305; 4509; 4708; 5280
NaeI	GCC!GGC	5	723; 1419; 2627; 3910; 4193
NarI	GG!CGCC	3	758; 1454; 3408
NciI	CC!SGG	12	1181; 1266; 1304; 1305; 1877; 1962; 2040; 2041; 3412; 3572; 4185; 4949
NcoI	C!CATGG	4	360; 611; 3137; 3840
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; 2043; 2052; 2065; 3245; 3249; 3268; 3579; 3657; 3738; 3747; 3825; 4201; 4217; 4576; 4588; 4666; 4674; 4685; 4760
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	5	721; 1417; 2625; 3908; 4191
NheI	G!CTAGC	1	591
NlaIII	CATG!	22	304; 364; 615; 660; 738; 1179; 1356; 1434; 1875; 2838; 2978; 3050; 3141; 3282; 3627; 3813; 3844; 3870; 4226; 4610; 5330; 5381
NlaIV	GGN!NCC	35	467; 666; 726; 759; 791; 984; 1005; 1037; 1117; 1207; 1362; 1422; 1455; 1487; 1680; 1701; 1733; 1813; 1903; 2030; 2038; 2045; 2563; 2584; 2596; 2787; 2948; 3020; 3409; 3444; 4292; 4371; 4416; 5259; 5298
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2240; 2555; 4147
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	6	347; 991; 1072; 1687; 1768; 5219
Nli3877I	CYCGR!G	8	872; 1064; 1286; 1307; 1568; 1760; 1982; 2043
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	4	861; 1557; 3197; 3633
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	3162
NmeDI	RCCGGYNNNNNNNN!	9	612; 733; 1124; 1429; 1820; 2637; 3739; 3920; 4203
NmeDI	!NNNNNNNNNNNNRCCGGY	9	587; 708; 1099; 1404; 1795; 2612; 3714; 3895; 4178
NmuCI	!GTSAC	5	747; 1443; 2697; 3528; 3834
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	3	643; 1339; 3510
NsiI	ATGCA!T	3	2980; 3052; 5383
NspI	RCATG!Y	4	2978; 3050; 3813; 5330
NspV	TT!CGAA	2	2010; 4090
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; 2031; 3715
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2978; 3050; 3813
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	2	2834; 4606
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4373; 4476
PauI	G!CGCGC	2	1164; 1860
PceI	AGG!CCT	1	3229
PciI	A!CATGT	1	5326
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3752; 3962
PcsI	WCGNNNN!NNNCGW	10	1238; 1256; 1934; 1952; 3702; 3779; 4022; 4096; 4489; 5007
PctI	GAATGCN!	1	2159
PctI	G!CATTC	1	2252
PdiI	GCC!GGC	5	723; 1419; 2627; 3910; 4193
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	740; 1436; 3893; 4027; 4137; 4174; 5352
Pfi23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3526
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	1	4183
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; 2038; 2374; 2516; 3171; 3177; 3186; 3229; 3316; 3490; 3881; 3908; 4417; 4474; 4507; 4852; 5286; 5304; 5315
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3789
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	3354; 3609
PleI	GAGTCNNNN!	2	2459; 2891
PleI	!NNNNNGACTC	4	404; 2467; 4073; 4950
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!	1	2490
PpiI	!NNNNNNNGAGNNNNNGTTC	1	4620
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4652
PpiI	!NNNNNNNGAACNNNNNCTC	1	2458
PpsI	GAGTCNNNN!	2	2459; 2891
PpsI	!NNNNNGACTC	4	404; 2467; 4073; 4950
Ppu10I	A!TGCAT	3	2976; 3048; 5379
Ppu21I	YAC!GTR	5	340; 747; 1443; 2524; 3712
PpuMI	RG!GWCCY	2	815; 1511
Psci	A!CATGT	1	5326
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2191; 2396
Psp03I	GGWC!C	4	818; 1514; 3927; 4372
Psp5II	RG!GWCCY	2	815; 1511
Psp6I	!CCWGG	19	88; 281; 785; 880; 929; 941; 1481; 1576; 1625; 1637; 2942; 2997; 3014; 3793; 4372; 4475; 5165; 5178; 5299
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	2	747; 1443
PspEI	G!GTNACC	0	
PspGI	!CCWGG	19	88; 281; 785; 880; 929; 941; 1481; 1576; 1625; 1637; 2942; 2997; 3014; 3793; 4372; 4475; 5165; 5178; 5299
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; 2030; 2038; 2045; 2563; 2584; 2596; 2787; 2948; 3020; 3409; 3444; 4292; 4371; 4416; 5259; 5298
PspOMI	G!GGCCC	1	2036
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 3138; 4137
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3540
PspPI	G!GNCC	19	83; 276; 789; 815; 1003; 1095; 1263; 1485; 1511; 1699; 1791; 1959; 2037; 2515; 3924; 4369; 4415; 4473; 4506
PspPPI	RG!GWCCY	2	815; 1511
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	2961; 3033; 4539
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	2874; 4069
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNTACNNNNNNNNNNNN!	2	696; 1392
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNTAC	2	664; 1360
PssI	RGGNC!CY	3	818; 1514; 4509
PstI	CTGCA!G	1	2021
PstNI	CAGNNN!CTG	4	1215; 1911; 4509; 4917
PsuI	R!GATCY	13	585; 839; 1297; 1535; 2043; 2052; 3579; 3825; 4217; 4576; 4588; 4674; 4685
PsyI	GACN!NNGTC	1	3526
PteI	G!CGCGC	2	1164; 1860
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2906; 3514
RcaI	T!CATGA	2	2834; 4606
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3923
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	2137
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; 2030; 3714

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; 2029; 3713
RseI	CAYNN!NNRTG	7	365; 613; 649; 1048; 1345; 1744; 3845
RsrII	CG!GWCCG	1	3924
Rsr2I	CG!GWCCG	1	3924
SacI	GAGCT!C	0	
SacII	CCGC!GG	1	2035
SaI	G!TCGAC	1	2022
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	3752; 3962
SaqAI	T!TAA	16	7; 2003; 2109; 2170; 2291; 2312; 2323; 2335; 2346; 2363; 2461; 2732; 4551; 4565; 4570; 4622
SatI	GC!NGC	44	621; 798; 810; 912; 1026; 1029; 1080; 1216; 1317; 1494; 1506; 1608; 1722; 1725; 1776; 1912; 2185; 2704; 2726; 2740; 3178; 3317; 3369; 3380; 3470; 3475; 3512; 3553; 3640; 3643; 3646; 3882; 3978; 4019; 4033; 4147; 4486; 4501; 4712; 4918; 4921; 4986; 5129; 5284
Sau96I	G!GNCC	19	83; 276; 789; 815; 1003; 1095; 1263; 1485; 1511; 1699; 1791; 1959; 2037; 2515; 3924; 4369; 4415; 4473; 4506
Sau3AI	!GATC	27	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 2043; 2052; 2065; 3245; 3249; 3268; 3579; 3657; 3738; 3747; 3825; 4201; 4217; 4576; 4588; 4666; 4674; 4685; 4760
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	2	1237; 1933
SchI	GAGTCNNNNN!	2	2460; 2892
SchI	!NNNNGACTC	4	404; 2467; 4073; 4950
SciI	CTC!GAG	0	
ScrFI	CC!NGG	31	90; 283; 787; 882; 931; 943; 1181; 1266; 1304; 1305; 1483; 1578; 1627; 1639; 1877; 1962; 2040; 2041; 2944; 2999; 3016; 3412; 3572; 3795; 4185; 4374; 4477; 4949; 5167; 5180; 5301
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNN!	4	2986; 3058; 3227; 5169
SdeAI	!NNNNNNNNNNNNNNNNNNNNNNNNCTYCTG	2	3563; 4048
SdeOSI	GACNNNNRTGANNNNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	17	667; 827; 980; 1040; 1363; 1523; 1676; 1736; 2040; 2599; 3354; 3447; 3521; 3711; 3773; 4483; 5016
SelI	!CGCG	18	58; 1164; 1860; 2032; 2294; 2330; 2706; 2726; 2750; 2781; 3472; 3773; 4211; 4295; 4358; 4427; 4700; 5281
SetI	ASST!	78	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; 2009; 2098; 2119; 2128; 2140; 2189; 2356; 2471; 2483; 2526; 2563; 2613; 2636; 2760; 2908; 3003; 3196; 3309; 3437; 3516; 3527; 3599; 3670; 3714; 3974; 4120; 4164; 4495; 4526; 4585; 4628; 4771; 4792; 4891; 5028; 5043; 5062; 5074; 5118; 5164; 5215
SexAI	A!CCWGGT	1	2997
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	653; 923; 1349; 1619; 2224; 2987; 3059; 3707; 3771; 4046
SfaNI	!NNNNNNNNNNNGATGC	7	357; 1202; 1898; 3366; 3621; 3837; 5229
SfcI	C!TRYAG	4	2017; 2743; 4870; 5061
SfiI	GGCCNNNN!NGGCC	3	1261; 1957; 3183
SfoI	GGC!GCC	3	759; 1455; 3409
Sfr274I	C!TCGAG	0	
Sfr303I	CCGC!GG	1	2035
SfuI	TT!CGAA	2	2010; 4090

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; 2045; 2062; 2115; 2144; 2186; 2269; 2307; 2343; 2427; 2449; 2481; 2518; 2536; 2555; 2570; 2612; 2629; 2646; 2681; 2695; 2712; 2734; 2758; 2782; 2847; 2861; 2899; 2915; 2955; 2968; 2987; 3010; 3027; 3040; 3059; 3089; 3110; 3127; 3150; 3185; 3212; 3243; 3265; 3291; 3313; 3332; 3360; 3396; 3415; 3438; 3452; 3472; 3485; 3499; 3518; 3532; 3551; 3583; 3597; 3610; 3636; 3667; 3680; 3697; 3714; 3728; 3745; 3763; 3778; 3806; 3822; 3841; 3863; 3879; 3902; 3921; 3946; 3965; 3985; 4012; 4036; 4069; 4088; 4116; 4130; 4196; 4220; 4235; 4258; 4279; 4296; 4344; 4371; 4385; 4414; 4438; 4471; 4488; 4508; 4521; 4534; 4592; 4619; 4638; 4668; 4693; 4713; 4727; 4752; 4770; 4807; 4845; 4874; 4902; 4916; 4936; 4951; 4972; 4986; 5005; 5023; 5039; 5079; 5099; 5126; 5144; 5165; 5178; 5191; 5208; 5232; 5255; 5287; 5312; 5339; 5361
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; 2019; 2036; 2089; 2118; 2160; 2243; 2281; 2317; 2401; 2423; 2455; 2492; 2510; 2529; 2586; 2603; 2620; 2655; 2673; 2693; 2713; 2732; 2756; 2821; 2873; 2929; 2961; 2984; 3001; 3033; 3063; 3084; 3101; 3124; 3159; 3186; 3217; 3239; 3265; 3287; 3306; 3334; 3370; 3389; 3412; 3433; 3451; 3468; 3492; 3525; 3557; 3584; 3610; 3641; 3671; 3688; 3714; 3737; 3758; 3780; 3800; 3820; 3837; 3876; 3895; 3920; 3939; 3959; 3986; 4010; 4043; 4062; 4090; 4112; 4170; 4194; 4213; 4232; 4253; 4270; 4318; 4345; 4365; 4388; 4412; 4445; 4462; 4482; 4508; 4566; 4593; 4612; 4642; 4667; 4687; 4726; 4744; 4781; 4819; 4848; 4876; 4897; 4925; 4946; 4979; 4997; 5053; 5073; 5100; 5118; 5139; 5165; 5182; 5206; 5229; 5261; 5286; 5313; 5335; 5364
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	2035
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2555; 4342; 5135
SimI	!GACCC	4	106; 3836; 4404; 4652
SinI	G!GWCC	4	815; 1511; 3924; 4369
SlaI	C!TCGAG	0	
SmaI	CCC!GGG	2	1305; 2041
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	7	365; 613; 649; 1048; 1345; 1744; 3845
SmlI	C!TYRAG	5	2002; 3799; 4681; 4958; 5220
SmoI	C!TYRAG	5	2002; 3799; 4681; 4958; 5220
SmuI	CCCGCNNNN!	10	93; 119; 286; 1002; 1698; 2730; 3085; 3106; 4302; 4434
SmuI	!NNNNNNGCGGG	6	2027; 2661; 3531; 4068; 4206; 4353
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2978; 3050; 3813
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 2012; 2158; 2222; 2300; 2326; 2337; 2984; 3056; 3148; 4566
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	2	815; 1511
SseBI	AGG!CCT	1	3229

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; 2032; 2723; 2726; 2740; 2830; 3078; 3090; 3099; 3111; 3121; 3132; 3178; 3317; 3380; 3882; 3927; 3993; 4019; 4144; 4147; 4295; 4427; 4734; 4878; 5374
SsiI	G!CGG	36	370; 403; 528; 620; 911; 1025; 1028; 1079; 1218; 1316; 1607; 1721; 1724; 1775; 1914; 2034; 2668; 2695; 2783; 2893; 3474; 3538; 3639; 3642; 3922; 3977; 4075; 4213; 4360; 4500; 4743; 4988; 5109; 5128; 5255; 5283
SspI	AAT!ATT	2	2316; 2869
SspDI	G!GCGCC	3	757; 1453; 3407
SspD5I	GGTANNNNNNNN!	7	376; 627; 981; 1323; 1677; 4479; 4595
SspD5I	!NNNNNNNNTCACC	6	869; 1184; 1565; 1880; 2524; 3585
SstI	GAGCT!C	0	
SstII	CCGC!GG	1	2035
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; 2046; 2607; 2729; 3084; 3105; 3418; 3821; 3960; 4031; 4301; 4433; 4663; 5101
Sth132I	!NNNNNNNNCCGGG	20	15; 407; 470; 1296; 2026; 2608; 2660; 2761; 3488; 3530; 3563; 4067; 4176; 4205; 4352; 4456; 4487; 4940; 4984; 5192
Sth302II	CC!GG	34	602; 723; 1084; 1114; 1147; 1182; 1204; 1267; 1305; 1419; 1780; 1810; 1843; 1878; 1900; 1963; 2041; 2051; 2627; 3314; 3391; 3413; 3441; 3572; 3662; 3729; 3910; 4185; 4193; 4285; 4759; 4949; 4975; 5122
StrI	C!TCGAG	0	
StsI	GGATGNNNNNNNNNN!	5	1321; 3276; 3733; 3758; 4212
StsI	!NNNNNNNNNNNNNNNNCATCC	7	768; 900; 1185; 1464; 1596; 1881; 3080
StuI	AGG!CCT	1	3229
StyI	C!CWWGG	6	360; 611; 3137; 3230; 3840; 4245
StyD4I	!CCNGG	31	88; 281; 785; 880; 929; 941; 1179; 1264; 1302; 1303; 1481; 1576; 1625; 1637; 1875; 1960; 2038; 2039; 2942; 2997; 3014; 3410; 3570; 3793; 4183; 4372; 4475; 4947; 5165; 5178; 5299
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 669; 1365; 2028; 2499; 3788; 3904; 4012; 4335; 4826; 5296; 5367
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 749; 1091; 1445; 1787; 2471; 2483; 2526; 2636; 3527; 3714; 4495; 4628
TaqI	T!CGA	18	779; 1241; 1475; 1937; 1998; 2010; 2023; 2557; 3248; 3521; 3677; 3701; 3737; 3899; 4090; 4135; 4390; 5228
TaqII	GACCGANNNNNNNNNN!	5	766; 1462; 2428; 3445; 4113
TaqII	!NNNNNNNNTCGGTC	1	4357
TaqII	CACCCANNNNNNNNNN!	2	742; 1438
TaqII	!NNNNNNNNTGGGTG	3	172; 3312; 3904
TasI	!AATT	11	18; 2012; 2158; 2222; 2300; 2326; 2337; 2984; 3056; 3148; 4566
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; 2728; 2742; 3180; 3319; 3382; 3477; 3642; 3645; 3884; 3980; 4021; 4149; 4503; 5131; 5286
TfiI	G!AWTC	7	740; 1436; 3893; 4027; 4137; 4174; 5352
TliI	C!TCGAG	0	
TruII	T!TAA	16	7; 2003; 2109; 2170; 2291; 2312; 2323; 2335; 2346; 2363; 2461; 2732; 4551; 4565; 4570; 4622
Tru9I	T!TAA	16	7; 2003; 2109; 2170; 2291; 2312; 2323; 2335; 2346; 2363; 2461; 2732; 4551; 4565; 4570; 4622
TscAI	CASTGNN!	5	2254; 3537; 4647; 4918; 4931
TseI	G!CWGC	19	797; 809; 1215; 1493; 1505; 1911; 2184; 2703; 3368; 3469; 3511; 3552; 3645; 4032; 4485; 4711; 4917; 4920; 4985
TsoI	TARCCANNNNNNNNNN!	2	2380; 2727
TsoI	!NNNNNNNNTGGYTA	2	2185; 3937
Tsp45I	!GTSAC	5	747; 1443; 2697; 3528; 3834
Tsp509I	!AATT	11	18; 2012; 2158; 2222; 2300; 2326; 2337; 2984; 3056; 3148; 4566
TspDTI	ATGAANNNNNNNNNN!	5	1027; 1723; 2166; 3467; 4171
TspDTI	!NNNNNNNNTTCAT	4	26; 3885; 4341; 4548

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspEI	!AATT	11	18; 2012; 2158; 2222; 2300; 2326; 2337; 2984; 3056; 3148; 4566
TspGWI	ACGGANNNNNNNNNNN!	1	4283
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	2	1303; 2039
TspRI	CASTGNN!	5	2254; 3537; 4647; 4918; 4931
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3526
Tth111II	CAARCANNNNNNNNNN!	3	871; 1567; 4735
Tth111II	!NNNNNNNNNTGYTTG	3	3843; 4703; 4742
UnbI	!GGNCC	19	82; 275; 788; 814; 1002; 1094; 1262; 1484; 1510; 1698; 1790; 1958; 2036; 2514; 3923; 4368; 4414; 4472; 4505
Van91I	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	1	2002
VneI	G!TGCAC	5	823; 976; 1519; 1672; 5012
VpaK11AI	!GGWCC	4	814; 1510; 3923; 4368
VpaK11BI	G!GWCC	4	815; 1511; 3924; 4369
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	2	628; 1324
XapI	R!AATTY	4	2012; 2222; 2326; 2337
XbaI	T!CTAGA	1	2055
XceI	RCATG!Y	4	2978; 3050; 3813; 5330
XcmI	CCANNNNN!NNNTGG	2	1047; 1743
XhoI	C!TCGAG	0	
XhoII	R!GATCY	13	585; 839; 1297; 1535; 2043; 2052; 3579; 3825; 4217; 4576; 4588; 4674; 4685
XmaI	C!CCGGG	2	1303; 2039
XmaJI	C!CTAGG	2	3230; 4245
XmiI	GT!MKAC	1	2023
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	8	592; 2056; 2257; 2675; 3231; 4246; 4580; 4833
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	2	1237; 1933
Zsp2I	ATGCA!T	3	2980; 3052; 5383