

pHcRed-Tandem-C2 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2196; 2401
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2484; 3440; 5229
AatI	AGG!CCT	1	3234
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	2028
AccII	CG!CG	18	60; 1166; 1862; 2039; 2301; 2337; 2713; 2733; 2757; 2788; 3479; 3780; 4218; 4302; 4365; 4434; 4707; 5288
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	3	643; 1339; 3515
Acc36I	ACCTGCNNNN!	4	1286; 1982; 3681; 4131
Acc36I	!NNNNNNNNGCAGGT	1	3300
Acc65I	G!GTACC	1	2033
AccB1I	G!GYRCC	15	465; 664; 724; 757; 982; 1115; 1360; 1420; 1453; 1678; 1811; 2033; 2566; 3412; 3447
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	2837; 4026
AccBSI	GAG!CGG	6	620; 1025; 1316; 1721; 2673; 4080
AceIII	CAGCTCNNNNNNN!	1	2369
AceIII	!NNNNNNNNGAGCTG	3	552; 1231; 1927
Acil	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 833; 923; 995; 1529; 1619; 1691; 2037; 2728; 2731; 2745; 2835; 3083; 3095; 3104; 3116; 3126; 3137; 3183; 3322; 3385; 3887; 3932; 3998; 4024; 4149; 4152; 4300; 4432; 4739; 4883; 5379
Acil	G!CGG	36	370; 403; 528; 620; 911; 1025; 1028; 1079; 1218; 1316; 1607; 1721; 1724; 1775; 1914; 2039; 2673; 2700; 2788; 2898; 3479; 3543; 3644; 3647; 3927; 3982; 4080; 4218; 4365; 4505; 4748; 4993; 5114; 5133; 5260; 5288
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	9	2056; 2065; 3281; 3592; 3838; 4230; 4589; 4687; 4773
AcIWI	!NNNNNGATCC	8	580; 834; 1530; 2043; 3657; 4201; 4588; 4685
AcoI	Y!GGCCR	8	675; 1080; 1371; 1776; 3319; 3493; 3884; 3911
AcsI	R!AATTY	4	2017; 2227; 2331; 2342
AcuI	CTGAAGNNNNNNNNNNNNNNN!	6	649; 1120; 1345; 1816; 3559; 3991
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4789
AcvI	CAC!GTG	2	747; 1443
AcyI	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3413; 4115; 4194
AdeI	CACNNN!GTG	1	2529
Afal	GT!AC	20	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1237; 1249; 1270; 1351; 1501; 1753; 1933; 1945; 1966; 2035; 3719
Afel	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	30	49; 630; 721; 1000; 1066; 1104; 1145; 1202; 1326; 1417; 1696; 1762; 1800; 1841; 1898; 2425; 2751; 3143; 3394; 3938; 4219; 4251; 4383; 4418; 4468; 4500; 4853; 5132; 5298; 5316
AfiII	C!TTAAG	0	
AfiIII	A!CRYGT	2	2299; 5331
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	9	687; 855; 1383; 1551; 2824; 2868; 2878; 3291; 4867
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; 2947; 3002; 3019; 3798; 4377; 4480; 5170; 5183; 5304
AjuI	GAANNNNNNTTGGNNNNNNNNNN!	0	

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AjuI	!NNNNNCCAANNNNNNTTC	0	
AjuI	CCAANNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNGAANNNNNNTTGG	0	
AleI	CACNN!NNGTG	3	613; 1048; 1744
AlfI	GCANNNNTGCGNNNNNNNNNN!	2	2987; 3059
AlfI	!NNNNNNNNGCANNNNNTGC	2	2953; 3025
AloI	GAACNNNNNTCCNNNNNNNNNN!	1	2495
AloI	!NNNNNNGGANNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNN!	0	
AloI	!NNNNNNGAACNNNNNTCC	1	2463
AluI	AG!CT	20	566; 863; 1142; 1245; 1559; 1838; 1941; 2006; 2012; 2192; 2359; 2616; 2911; 3199; 3519; 3977; 4774; 5031; 5077; 5167
AluBI	AG!CT	20	566; 863; 1142; 1245; 1559; 1838; 1941; 2006; 2012; 2192; 2359; 2616; 2911; 3199; 3519; 3977; 4774; 5031; 5077; 5167
AlwI	GGATCNNNN!	9	2056; 2065; 3281; 3592; 3838; 4230; 4589; 4687; 4773
AlwI	!NNNNNGATCC	8	580; 834; 1530; 2043; 3657; 4201; 4588; 4685
Alw21I	GWGCW!C	8	827; 980; 1523; 1676; 2008; 3526; 3716; 5021
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	4	2837; 3255; 4274; 4402
Alw44I	G!TGCAC	5	823; 976; 1519; 1672; 5017
AlwNI	CAGNN!CTG	4	1215; 1911; 4514; 4922
Ama87I	C!YCGRG	8	868; 1060; 1282; 1303; 1564; 1756; 1978; 2044
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	2045
ApaBI	GCANNNNN!TGC	3	2981; 3053; 4515
ApaLI	G!TGCAC	5	823; 976; 1519; 1672; 5017
ApeKI	G!CWGC	19	797; 809; 1215; 1493; 1505; 1911; 2189; 2708; 3373; 3474; 3516; 3557; 3650; 4037; 4490; 4716; 4922; 4925; 4990
ApoI	R!AATTY	4	2017; 2227; 2331; 2342
ApyPI	ATCGACNNNNNNNNNNNNNNNN!	1	3928
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	3722; 4375; 5213
AquII	GCCGNACNNNNNNNNNNNNNNNN!	1	3812
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	4	785; 1058; 1481; 1754
AquIII	GAGGAGNNNNNNNNNNNNNNNN!	1	3241
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	5	846; 972; 1542; 1668; 3983
ArsI	GACNNNNNTTYGNNNNNNNNNN!	2	1254; 1950
ArsI	!NNNNNCRANNNNNNGTC	0	
ArsI	CRAANNNNNGTCCNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNTTYG	2	1222; 1918
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	28	586; 840; 960; 1122; 1298; 1536; 1656; 1818; 2000; 2049; 2058; 2071; 3251; 3255; 3274; 3585; 3663; 3744; 3753; 3831; 4207; 4223; 4582; 4594; 4672; 4680; 4691; 4766
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3531
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	2033
AspA2I	C!CTAGG	2	3235; 4250
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	29	597; 644; 760; 1166; 1168; 1340; 1456; 1862; 1864; 2679; 2687; 2713; 2735; 2744; 2757; 2788; 3407; 3415; 3479; 3516; 3782; 4042; 4218; 4304; 4707; 4816; 4990; 5090; 5157
AspS9I	G!GNCC	19	83; 276; 789; 815; 1003; 1095; 1263; 1485; 1511; 1699; 1791; 1959; 2042; 2520; 3929; 4374; 4420; 4478; 4511
AssI	AGT!ACT	2	1237; 1933
AsuII	TT!CGAA	2	2015; 4095
AsuC2I	CC!SGG	12	1181; 1266; 1304; 1305; 1877; 1962; 2045; 2046; 3417; 3577; 4190; 4954
AsuHPI	GGTGANNNNNNN!	7	376; 627; 981; 1323; 1677; 4484; 4600
AsuHPI	!NNNNNNNTCACC	6	870; 1185; 1566; 1881; 2530; 3591
AsuNHI	G!CTAGC	1	591

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AvaI	C!YCGRG	8	868; 1060; 1282; 1303; 1564; 1756; 1978; 2044
AvaII	G!GWCC	4	815; 1511; 3929; 4374
AviII	TGC!GCA	3	643; 1339; 3515
AvrII	C!CTAGG	2	3235; 4250
AxyI	CC!TNAGG	2	2893; 4525
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	10	667; 827; 980; 1363; 1523; 1676; 2045; 3359; 3452; 5021
BalI	TGG!CCA	1	3495
BamHI	G!GATCC	1	2048
BanI	G!GYRCC	15	465; 664; 724; 757; 982; 1115; 1360; 1420; 1453; 1678; 1811; 2033; 2566; 3412; 3447
BanII	GRGCY!C	7	1040; 1736; 2008; 2045; 2604; 3778; 4488
BanIII	AT!CGAT	1	3253
BarI	GAAGNNNNNTACNNNNNNNNNN!	2	1251; 1947
BarI	!NNNNNNNGTANNNNNCTTC	0	
BarI	GTANNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	2	1219; 1915
BasI	CCANNN!NTGG	0	
BauI	C!ACGAG	2	4131; 5158
BauI	C!TCGTG	1	4005
BbeI	GGCGC!C	3	761; 1457; 3416
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	2	747; 1443
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2983; 3055; 3818
BbvI	GCAGCNNNNNN!	8	821; 1517; 2201; 3486; 3528; 4049; 4502; 5002
BbvI	!NNNNNNNNNNNGCTGC	10	784; 1202; 1480; 1898; 2695; 3360; 3544; 3637; 4703; 4909
Bbv12I	GWGCW!C	8	827; 980; 1523; 1676; 2008; 3526; 3716; 5021
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	4	2543; 3107; 3633; 4135
BccI	!NNNNNGATGG	6	1086; 1302; 1782; 2511; 3291; 3719
BceAI	ACGGCNNNNNNNNNN!	16	690; 723; 822; 924; 996; 1017; 1083; 1386; 1419; 1518; 1620; 1692; 1713; 1779; 3839; 4326
BceAI	!NNNNNNNNNNNGCCGT	5	1144; 1840; 2554; 3372; 4831
Bcefl	ACGGCNNNNNNNNNN!	16	690; 723; 822; 924; 996; 1017; 1083; 1386; 1419; 1518; 1620; 1692; 1713; 1779; 3839; 4326
Bcefl	!NNNNNNNNNNNGCCGT	5	1145; 1841; 2555; 3373; 4832
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNGCANNNNNNTCG	4	699; 801; 1395; 1497
BcgI	GCANNNNNNTGCNNNNNNNNNN!	4	733; 835; 1429; 1531
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2842; 3632; 5133
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2070
BcnI	CC!SGG	12	1181; 1266; 1304; 1305; 1877; 1962; 2045; 2046; 3417; 3577; 4190; 4954
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	2093; 5266
BdaI	!NNNNNNNNNNTGANNNNNNTCA	2	2059; 5232
BfaI	C!TAG	8	592; 2061; 2262; 2680; 3236; 4251; 4585; 4838
BfiI	ACTGGGNNNN!	1	3362
BfiI	!NNNNCCCAGT	2	289; 3114
BfmI	C!TRYAG	4	2022; 2748; 4875; 5066
BfoI	RGCGC!Y	7	598; 761; 1457; 2680; 2688; 3416; 5091
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2842; 3632; 5133
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	1286; 1982; 3681; 4131
BfuAI	!NNNNNNNNGCAGGT	1	3300

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BfuCI	!GATC	28	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 1999; 2048; 2057; 2070; 3250; 3254; 3273; 3584; 3662; 3743; 3752; 3830; 4206; 4222; 4581; 4593; 4671; 4679; 4690; 4765
BglI	GCCNNNN!NGGC	8	90; 212; 283; 947; 1261; 1643; 1957; 3188
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; 2190; 2709; 2731; 2745; 3183; 3322; 3374; 3385; 3475; 3480; 3517; 3558; 3645; 3648; 3651; 3887; 3983; 4024; 4038; 4152; 4491; 4506; 4717; 4923; 4926; 4991; 5134; 5289
BlnI	C!CTAGG	2	3235; 4250
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	44	622; 799; 811; 913; 1027; 1030; 1081; 1217; 1318; 1495; 1507; 1609; 1723; 1726; 1777; 1913; 2191; 2710; 2732; 2746; 3184; 3323; 3375; 3386; 3476; 3481; 3518; 3559; 3646; 3649; 3652; 3888; 3984; 4025; 4039; 4153; 4492; 4507; 4718; 4924; 4927; 4992; 5135; 5290
BmcAI	AGT!ACT	2	1237; 1933
Bme18I	G!GWCC	4	815; 1511; 3929; 4374
Bme1390I	CC!NGG	31	90; 283; 787; 882; 931; 943; 1181; 1266; 1304; 1305; 1483; 1578; 1627; 1639; 1877; 1962; 2045; 2046; 2949; 3004; 3021; 3417; 3577; 3800; 4190; 4379; 4482; 4954; 5172; 5185; 5306
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	8	868; 1060; 1282; 1303; 1564; 1756; 1978; 2044
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	19	84; 277; 790; 816; 1004; 1096; 1264; 1486; 1512; 1700; 1792; 1960; 2043; 2521; 3930; 4375; 4421; 4479; 4512
BmiI	GGN!NCC	35	467; 666; 726; 759; 791; 984; 1005; 1037; 1117; 1207; 1362; 1422; 1455; 1487; 1680; 1701; 1733; 1813; 1903; 2035; 2043; 2050; 2568; 2589; 2601; 2792; 2953; 3025; 3414; 3449; 4297; 4376; 4421; 5264; 5303
BmrI	ACTGGGNNNNN!	1	3362
BmrI	!NNNNCCCAGT	2	289; 3114
BmrFI	CC!NGG	31	90; 283; 787; 882; 931; 943; 1181; 1266; 1304; 1305; 1483; 1578; 1627; 1639; 1877; 1962; 2045; 2046; 2949; 3004; 3021; 3417; 3577; 3800; 4190; 4379; 4482; 4954; 5172; 5185; 5306
BmsI	GCATCNNNNN!	10	653; 923; 1349; 1619; 2229; 2992; 3064; 3712; 3776; 4051
BmsI	!NNNNNNNNNGATGC	7	357; 1202; 1898; 3371; 3626; 3842; 5234
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	3362
BmuI	!NNNNCCCAGT	2	289; 3114
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNNN!	2	3202; 4101
BpI	!NNNNNNNNNGAGNNNNNCTC	2	3170; 4069
BpmI	CTGGAGNNNNNNNNNNNNNNNNN!	3	964; 1660; 4253
BpmI	!NNNNNNNNNNNNNNNCTCCAG	3	1192; 1888; 4196
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	2015; 4095
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNNN!	2	4707; 5246
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	1992; 3789; 4948
BpuMI	CC!SGG	12	1181; 1266; 1304; 1305; 1877; 1962; 2045; 2046; 3417; 3577; 4190; 4954
BpvUI	CGAT!CG	1	2002
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	4402
Bsa29I	AT!CGAT	1	3253
BsaAI	YAC!GTR	5	340; 747; 1443; 2529; 3717
BsaBI	GATNN!NNATC	2	2075; 3272
BsaHI	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3413; 4115; 4194

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BsaJI	C!CNGGG	27	360; 611; 752; 869; 881; 1046; 1303; 1448; 1565; 1577; 1742; 2037; 2044; 2947; 3019; 3142; 3177; 3186; 3235; 3576; 3845; 4250; 4377; 4378; 4480; 4481; 5171
BsaMI	GAATGCN!	1	2164
BsaMI	G!CATTC	1	2257
BsaWI	W!CCGGW	8	600; 1145; 1841; 2054; 3444; 4288; 4978; 5125
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2493
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2463
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	2414; 4321
Bsc4I	CCNNNNN!NNGG	30	49; 630; 721; 1000; 1066; 1104; 1145; 1202; 1326; 1417; 1696; 1762; 1800; 1841; 1898; 2425; 2751; 3143; 3394; 3938; 4219; 4251; 4383; 4418; 4468; 4500; 4853; 5132; 5298; 5316
BscAI	GCATCNNNN!	10	652; 922; 1348; 1618; 2228; 2991; 3063; 3711; 3775; 4050
BscAI	!NNNNNNGATGC	7	360; 1205; 1901; 3374; 3629; 3845; 5237
BseI	ACTGGN!	3	3357; 3558; 4804
BseI	C!CAGT	5	295; 2442; 3120; 4916; 4929
BseI	GATNN!NNATC	2	2075; 3272
Bse2II	CC!TNAGG	2	2893; 4525
Bse118I	R!CCGGY	9	600; 721; 1112; 1417; 1808; 2630; 3732; 3913; 4196
BseAI	T!CCGGA	0	
BseBI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2949; 3004; 3021; 3800; 4379; 4482; 5172; 5185; 5306
BseCI	AT!CGAT	1	3253
BseDI	C!CNGGG	27	360; 611; 752; 869; 881; 1046; 1303; 1448; 1565; 1577; 1742; 2037; 2044; 2947; 3019; 3142; 3177; 3186; 3235; 3576; 3845; 4250; 4377; 4378; 4480; 4481; 5171
Bse3DI	GCAATGNN!	1	3646
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	1313; 3273; 3730; 3755; 4209
BseGI	!CATCC	7	782; 914; 1199; 1478; 1610; 1895; 3099
BseJI	GATNN!NNATC	2	2075; 3272
BseLI	CCNNNNN!NNGG	30	49; 630; 721; 1000; 1066; 1104; 1145; 1202; 1326; 1417; 1696; 1762; 1800; 1841; 1898; 2425; 2751; 3143; 3394; 3938; 4219; 4251; 4383; 4418; 4468; 4500; 4853; 5132; 5298; 5316
BseMI	GCAATGNN!	1	3646
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	4539
BseMII	!NNNNNNNCTGAG	5	2884; 3186; 4067; 4639; 5048
BseNI	ACTGGN!	3	3357; 3558; 4804
BseNI	C!CAGT	5	295; 2442; 3120; 4916; 4929
BsePI	G!CGCGC	2	1164; 1860
BseRI	GAGGAGNNNNNNNNNN!	1	3231
BseRI	!NNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	10	667; 827; 980; 1363; 1523; 1676; 2045; 3359; 3452; 5021
BseXI	GCAGCNNNNNNNN!	8	821; 1517; 2201; 3486; 3528; 4049; 4502; 5002
BseXI	!NNNNNNNNNNNGCTGC	10	784; 1202; 1480; 1898; 2695; 3360; 3544; 3637; 4703; 4909
BseX3I	C!GGCCG	3	1080; 1776; 3319
BseYI	C!CCAGC	5	1039; 1735; 2956; 3028; 5027
BseYI	G!CTGGG	3	1031; 1727; 3917
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	18	60; 1166; 1862; 2039; 2301; 2337; 2713; 2733; 2757; 2788; 3479; 3780; 4218; 4302; 4365; 4434; 4707; 5288
Bsh1285I	CGRY!CG	8	605; 1083; 1113; 1779; 1809; 2002; 3322; 4997
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; 2043; 2379; 2521; 3176; 3182; 3191; 3234; 3321; 3495; 3886; 3913; 4422; 4479; 4512; 4857; 5291; 5309; 5320
BshNI	G!GYRCC	15	465; 664; 724; 757; 982; 1115; 1360; 1420; 1453; 1678; 1811; 2033; 2566; 3412; 3447
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	3253
BsiEI	CGRY!CG	8	605; 1083; 1113; 1779; 1809; 2002; 3322; 4997

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BsiHKAI	GWGCW!C	8	827; 980; 1523; 1676; 2008; 3526; 3716; 5021
BsiHKCI	C!YCGRG	8	868; 1060; 1282; 1303; 1564; 1756; 1978; 2044
BsiSI	C!CGG	34	601; 722; 1083; 1113; 1146; 1181; 1203; 1266; 1304; 1418; 1779; 1809; 1842; 1877; 1899; 1962; 2045; 2055; 2631; 3318; 3395; 3417; 3445; 3576; 3666; 3733; 3914; 4189; 4197; 4289; 4763; 4953; 4979; 5126
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	30	49; 630; 721; 1000; 1066; 1104; 1145; 1202; 1326; 1417; 1696; 1762; 1800; 1841; 1898; 2425; 2751; 3143; 3394; 3938; 4219; 4251; 4383; 4418; 4468; 4500; 4853; 5132; 5298; 5316
BsIFI	GGGACNNNNNNNNN!	6	175; 326; 494; 3564; 4096; 4205
BsIFI	!NNNNNNNNNNNGTCCC	4	2929; 3001; 3065; 4360
BsmI	GAATGCN!	1	2164
BsmI	G!CATTC	1	2257
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	4	2837; 3255; 4274; 4402
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNN!	6	175; 326; 494; 3564; 4096; 4205
BsmFI	!NNNNNNNNNNNGTCCC	4	2929; 3001; 3065; 4360
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; 2043; 2379; 2521; 3176; 3182; 3191; 3234; 3321; 3495; 3886; 3913; 4422; 4479; 4512; 4857; 5291; 5309; 5320
Bso3II	GGTCTCN!	0	
Bso3II	!NNNNNGAGACC	1	4402
BsoBI	C!YCGRG	8	868; 1060; 1282; 1303; 1564; 1756; 1978; 2044
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 611; 3142; 3845
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4216
Bsp24I	!NNNNNNCCANNNNNGTC	2	4637; 4815
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4669; 4847
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4184
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	2015; 4095
Bsp120I	G!GGCCC	1	2041
Bsp143I	!GATC	28	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 1999; 2048; 2057; 2070; 3250; 3254; 3273; 3584; 3662; 3743; 3752; 3830; 4206; 4222; 4581; 4593; 4671; 4679; 4690; 4765
Bsp1286I	GDGCH!C	18	667; 827; 980; 1040; 1363; 1523; 1676; 1736; 2008; 2045; 2604; 3359; 3452; 3526; 3716; 3778; 4488; 5021
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; 2037; 2728; 2731; 2745; 2835; 3083; 3095; 3104; 3116; 3126; 3137; 3183; 3322; 3385; 3887; 3932; 3998; 4024; 4149; 4152; 4300; 4432; 4739; 4883; 5379
BspACI	G!CGG	36	370; 403; 528; 620; 911; 1025; 1028; 1079; 1218; 1316; 1607; 1721; 1724; 1775; 1914; 2039; 2673; 2700; 2788; 2898; 3479; 3543; 3644; 3647; 3927; 3982; 4080; 4218; 4365; 4505; 4748; 4993; 5114; 5133; 5260; 5288
BspCNI	CTCAGNNNNNNNN!	1	4538
BspCNI	!NNNNNNNCTGAG	5	2885; 3187; 4068; 4640; 5049
BspDI	AT!CGAT	1	3253
BspD6I	GACTCNNNN!	4	418; 2486; 4092; 4969
BspD6I	!NNNNNGAGTC	2	2449; 2881
BspEI	T!CCGGA	0	
BspFNI	CG!CG	18	60; 1166; 1862; 2039; 2301; 2337; 2713; 2733; 2757; 2788; 3479; 3780; 4218; 4302; 4365; 4434; 4707; 5288
BspHI	T!CATGA	2	2839; 4611
BspLI	GGN!NCC	35	467; 666; 726; 759; 791; 984; 1005; 1037; 1117; 1207; 1362; 1422; 1455; 1487; 1680; 1701; 1733; 1813; 1903; 2035; 2043; 2050; 2568; 2589; 2601; 2792; 2953; 3025; 3414; 3449; 4297; 4376; 4421; 5264; 5303
BspMI	ACCTGCNNNN!	4	1286; 1982; 3681; 4131
BspMI	!NNNNNNNGCAGGT	1	3300
BspOI	GCTAG!C	1	595

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspPI	GGATCNNNN!	9	2056; 2065; 3281; 3592; 3838; 4230; 4589; 4687; 4773
BspPI	!NNNNNGATCC	8	580; 834; 1530; 2043; 3657; 4201; 4588; 4685
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3757; 3967
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	2015; 4095
BspT107I	G!GYRCC	15	465; 664; 724; 757; 982; 1115; 1360; 1420; 1453; 1678; 1811; 2033; 2566; 3412; 3447
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	4402
BsrI	ACTGGN!	3	3357; 3558; 4804
BsrI	C!CAGT	5	295; 2442; 3120; 4916; 4929
BsrBI	CCG!CTC	2	2837; 4026
BsrBI	GAG!CGG	6	620; 1025; 1316; 1721; 2673; 4080
BsrDI	GCAATGNN!	1	3646
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	9	600; 721; 1112; 1417; 1808; 2630; 3732; 3913; 4196
BsrGI	T!GTACA	2	653; 1349
BsrSI	ACTGGN!	3	3357; 3558; 4804
BsrSI	C!CAGT	5	295; 2442; 3120; 4916; 4929
BssAI	R!CCGGY	9	600; 721; 1112; 1417; 1808; 2630; 3732; 3913; 4196
BssECI	C!CNNGG	27	360; 611; 752; 869; 881; 1046; 1303; 1448; 1565; 1577; 1742; 2037; 2044; 2947; 3019; 3142; 3177; 3186; 3235; 3576; 3845; 4250; 4377; 4378; 4480; 4481; 5171
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; 2043; 2044; 2947; 3002; 3019; 3415; 3575; 3798; 4188; 4377; 4480; 4952; 5170; 5183; 5304
BssMI	!GATC	28	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 1999; 2048; 2057; 2070; 3250; 3254; 3273; 3584; 3662; 3743; 3752; 3830; 4206; 4222; 4581; 4593; 4671; 4679; 4690; 4765
BssNI	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3413; 4115; 4194
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4131; 5158
BssSI	C!TCGTG	1	4005
BssTII	C!CWWGG	6	360; 611; 3142; 3235; 3845; 4250
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	3	2880; 3757; 3967
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3413; 4115; 4194
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	2980; 3052; 4514
BstAUI	T!GTACA	2	653; 1349
BstBI	TT!CGAA	2	2015; 4095
Bst2BI	C!ACGAG	2	4131; 5158
Bst2BI	C!TCGTG	1	4005
BstBAI	YAC!GTR	5	340; 747; 1443; 2529; 3717
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 669; 1365; 2033; 2504; 3793; 3909; 4017; 4340; 4831; 5301; 5372
BstC8I	GCN!NGC	38	86; 279; 593; 625; 723; 1072; 1166; 1257; 1321; 1419; 1768; 1862; 1953; 2041; 2632; 2675; 2689; 2962; 2981; 3034; 3053; 3307; 3493; 3712; 3778; 3784; 3816; 3857; 3861; 3915; 4198; 4385; 4432; 4488; 4510; 4721; 5281; 5318
BstDEI	C!TNAG	6	2893; 3195; 4076; 4525; 4648; 5057
BstDSI	C!CRYGG	5	360; 611; 2037; 3142; 3845
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	2	628; 1324
BstF5I	GGATGNN!	5	1313; 3273; 3730; 3755; 4209
BstF5I	!CATCC	7	782; 914; 1199; 1478; 1610; 1895; 3099
BstFNI	CG!CG	18	60; 1166; 1862; 2039; 2301; 2337; 2713; 2733; 2757; 2788; 3479; 3780; 4218; 4302; 4365; 4434; 4707; 5288
BstH2I	RGCGC!Y	7	598; 761; 1457; 2680; 2688; 3416; 5091
BstHHI	GCG!C	29	597; 644; 760; 1166; 1168; 1340; 1456; 1862; 1864; 2679; 2687; 2713; 2735; 2744; 2757; 2788; 3407; 3415; 3479; 3516; 3782; 4042; 4218; 4304; 4707; 4816; 4990; 5090; 5157

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstKTI	GAT!C	28	588; 842; 962; 1124; 1300; 1538; 1658; 1820; 2002; 2051; 2060; 2073; 3253; 3257; 3276; 3587; 3665; 3746; 3755; 3833; 4209; 4225; 4584; 4596; 4674; 4682; 4693; 4768
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	4	2837; 3255; 4274; 4402
BstMBI	!GATC	28	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 1999; 2048; 2057; 2070; 3250; 3254; 3273; 3584; 3662; 3743; 3752; 3830; 4206; 4222; 4581; 4593; 4671; 4679; 4690; 4765
BstMCI	CGRY!CG	8	605; 1083; 1113; 1779; 1809; 2002; 3322; 4997
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; 2640; 2670; 2697; 2739; 2980; 3052; 3103; 3182; 3404; 3488; 3511; 3650; 3773; 3856; 4123; 4310; 4514; 4713; 5285
BstNI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2949; 3004; 3021; 3800; 4379; 4482; 5172; 5185; 5306
BstNSI	RCATG!Y	4	2983; 3055; 3818; 5335
BstOI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2949; 3004; 3021; 3800; 4379; 4482; 5172; 5185; 5306
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; 2043; 2044; 2947; 3002; 3019; 3415; 3575; 3798; 4188; 4377; 4480; 4952; 5170; 5183; 5304
BstSFI	C!TRYAG	4	2022; 2748; 4875; 5066
BstSLI	GKGC!C	10	667; 827; 980; 1363; 1523; 1676; 2045; 3359; 3452; 5021
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	18	60; 1166; 1862; 2039; 2301; 2337; 2713; 2733; 2757; 2788; 3479; 3780; 4218; 4302; 4365; 4434; 4707; 5288
Bst2UI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2949; 3004; 3021; 3800; 4379; 4482; 5172; 5185; 5306
BstVII	GCAGC!NNNNNN!	8	821; 1517; 2201; 3486; 3528; 4049; 4502; 5002
BstVII	!NNNNNNNNNNNGCTGC	10	784; 1202; 1480; 1898; 2695; 3360; 3544; 3637; 4703; 4909
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 839; 1297; 1535; 2048; 2057; 3584; 3830; 4222; 4581; 4593; 4679; 4690
BstYI	R!GATCY	13	585; 839; 1297; 1535; 2048; 2057; 3584; 3830; 4222; 4581; 4593; 4679; 4690
BstZI	C!GGCCG	3	1080; 1776; 3319
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2842; 3632; 5133
BsuI	!NNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3253
Bsu36I	CC!TNAGG	2	2893; 4525
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; 2043; 2379; 2521; 3176; 3182; 3191; 3234; 3321; 3495; 3886; 3913; 4422; 4479; 4512; 4857; 5291; 5309; 5320
BsuTUI	AT!CGAT	1	3253
BtgI	C!CRYGG	5	360; 611; 2037; 3142; 3845
BtgZI	GCGATGNNNNNNNN!	2	2530; 3865
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 3684; 4028
BthCI	GCNG!C	44	623; 800; 812; 914; 1028; 1031; 1082; 1218; 1319; 1496; 1508; 1610; 1724; 1727; 1778; 1914; 2192; 2711; 2733; 2747; 3185; 3324; 3376; 3387; 3477; 3482; 3519; 3560; 3647; 3650; 3653; 3889; 3985; 4026; 4040; 4154; 4493; 4508; 4719; 4925; 4928; 4993; 5136; 5291
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2252
BtsCI	GGATGNN!	5	1313; 3273; 3730; 3755; 4209
BtsCI	!CATCC	7	782; 914; 1199; 1478; 1610; 1895; 3099
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	1286; 1982; 3681; 4131
BveI	!NNNNNNNNGCAGGT	1	3300

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; 2041; 2632; 2675; 2689; 2962; 2981; 3034; 3053; 3307; 3493; 3712; 3778; 3784; 3816; 3857; 3861; 3915; 4198; 4385; 4432; 4488; 4510; 4721; 5281; 5318
CaiI	CAGNNN!CTG	4	1215; 1911; 4514; 4922
CciI	T!CATGA	2	2839; 4611
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	352; 3702; 3707; 3905; 4046
CdiI	C!GATG	2	2516; 3851
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5285
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3074; 3116
CelII	GC!TNAGC	0	
CfoI	GCG!C	29	597; 644; 760; 1166; 1168; 1340; 1456; 1862; 1864; 2679; 2687; 2713; 2735; 2744; 2757; 2788; 3407; 3415; 3479; 3516; 3782; 4042; 4218; 4304; 4707; 4816; 4990; 5090; 5157
CfrI	Y!GGCCR	8	675; 1080; 1371; 1776; 3319; 3493; 3884; 3911
Cfr9I	C!CCGGG	2	1303; 2044
Cfr10I	R!CCGGY	9	600; 721; 1112; 1417; 1808; 2630; 3732; 3913; 4196
Cfr13I	G!GNCC	19	83; 276; 789; 815; 1003; 1095; 1263; 1485; 1511; 1699; 1791; 1959; 2042; 2520; 3929; 4374; 4420; 4478; 4511
Cfr42I	CCGC!GG	1	2040
ChaI	GATC!	28	589; 843; 963; 1125; 1301; 1539; 1659; 1821; 2003; 2052; 2061; 2074; 3254; 3258; 3277; 3588; 3666; 3747; 3756; 3834; 4210; 4226; 4585; 4597; 4675; 4683; 4694; 4769
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	3230; 4670; 4770; 4848
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2897; 2992; 4184; 4734; 5289
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2931; 3026; 4218; 4768; 5323
CjeI	!NNNNNNNNCCANNNNNNGT	4	3196; 4636; 4736; 4814
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	4	1317; 2013; 4670; 4848
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 4184; 4783
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 4217; 4816
CjePI	!NNNNNNNNCCANNNNNNNNTC	4	1284; 1980; 4637; 4815
ClaI	AT!CGAT	1	3253
CpoI	CG!GWCCG	1	3929
CseI	GACGCNNNNN!	3	526; 4123; 4202
CseI	!NNNNNNNNNNNGCGTC	3	2746; 4641; 5219
CsiI	A!CCWGGT	1	3002
CspI	CG!GWCCG	1	3929
Csp6I	G!TAC	20	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1236; 1248; 1269; 1350; 1500; 1752; 1932; 1944; 1965; 2034; 3718
Csp45I	TT!CGAA	2	2015; 4095
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	656; 1352; 2693; 4302
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	22	301; 361; 612; 657; 735; 1176; 1353; 1431; 1872; 2840; 2980; 3052; 3143; 3284; 3629; 3815; 3846; 3872; 4228; 4612; 5332; 5383
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; 2006; 2012; 2043; 2082; 2192; 2359; 2379; 2521; 2602; 2616; 2630; 2911; 2952; 3024; 3147; 3176; 3182; 3191; 3199; 3222; 3234; 3240; 3321; 3338; 3346; 3373; 3398; 3482; 3491; 3495; 3519; 3557; 3633; 3650; 3669; 3732; 3776; 3786; 3803; 3886; 3913; 3917; 3954; 3977; 3993; 4173; 4200; 4261; 4383; 4422; 4479; 4486; 4493; 4512; 4523; 4774; 4803; 4846; 4857; 4922; 5001; 5026; 5031; 5077; 5167; 5265; 5291; 5309; 5320

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; 2006; 2012; 2043; 2082; 2192; 2359; 2379; 2521; 2602; 2616; 2630; 2911; 2952; 3024; 3147; 3176; 3182; 3191; 3199; 3222; 3234; 3240; 3321; 3338; 3346; 3373; 3398; 3482; 3491; 3495; 3519; 3557; 3633; 3650; 3669; 3732; 3776; 3786; 3803; 3886; 3913; 3917; 3954; 3977; 3993; 4173; 4200; 4261; 4383; 4422; 4479; 4486; 4493; 4512; 4523; 4774; 4803; 4846; 4857; 4922; 5001; 5026; 5031; 5077; 5167; 5265; 5291; 5309; 5320
CviQI	G!TAC	20	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1236; 1248; 1269; 1350; 1500; 1752; 1932; 1944; 1965; 2034; 3718
DdeI	C!TNAG	6	2893; 3195; 4076; 4525; 4648; 5057
DinI	GGC!GCC	3	759; 1455; 3414
DpnI	GA!TC	28	587; 841; 961; 1123; 1299; 1537; 1657; 1819; 2001; 2050; 2059; 2072; 3252; 3256; 3275; 3586; 3664; 3745; 3754; 3832; 4208; 4224; 4583; 4595; 4673; 4681; 4692; 4767
DpnII	!GATC	28	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 1999; 2048; 2057; 2070; 3250; 3254; 3273; 3584; 3662; 3743; 3752; 3830; 4206; 4222; 4581; 4593; 4671; 4679; 4690; 4765
DraI	TTT!AAA	3	2115; 4557; 4576
DraII	RG!GNCCY	3	815; 1511; 4511
DraIII	CACNNN!GTG	1	2529
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	2	266; 4893
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	2484; 3440; 5229
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2484; 3440; 5229
EaeI	Y!GGCCR	8	675; 1080; 1371; 1776; 3319; 3493; 3884; 3911
EagI	C!GGCCG	3	1080; 1776; 3319
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2880; 3757; 3967
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	3	2880; 3757; 3967
EciI	GGCGGANNNNNNNNNNNN!	4	2913; 3942; 5129; 5275
EciI	!NNNNNNNNNTCCGCC	4	496; 3084; 3105; 3126
Ecl136II	GAG!CTC	1	2006
EclXI	C!GGCCG	3	1080; 1776; 3319
Eco24I	GRGCY!C	7	1040; 1736; 2008; 2045; 2604; 3778; 4488
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	1	4402
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	815; 1511; 3929; 4374
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	3	1080; 1776; 3319
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	6	649; 1120; 1345; 1816; 3559; 3991
Eco57I	!NNNNNNNNNNNNNNNNCTTCAG	1	4789
Eco72I	CAC!GTG	2	747; 1443
Eco81I	CC!TNAGG	2	2893; 4525
Eco88I	C!YCGRG	8	868; 1060; 1282; 1303; 1564; 1756; 1978; 2044
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWVGG	6	360; 611; 3142; 3235; 3845; 4250
Eco147I	AGG!CCT	1	3234
EcoHI	!CCSGG	12	1179; 1264; 1302; 1303; 1875; 1960; 2043; 2044; 3415; 3575; 4188; 4952
EcoICRI	GAG!CTC	1	2006
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	9	649; 964; 1120; 1345; 1660; 1816; 3559; 3991; 4253
Eco57MI	!NNNNNNNNNNNNNNNNCTYCAG	4	1192; 1888; 4196; 4789
EcoNI	CCTNN!NNNAGG	2	628; 1324
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	3	815; 1511; 4511
EcoRI	G!AATC	1	2017

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; 2947; 3002; 3019; 3798; 4377; 4480; 5170; 5183; 5304
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 611; 3142; 3235; 3845; 4250
EcoT22I	ATGCA!T	3	2985; 3057; 5388
EcoT38I	GRGCY!C	7	1040; 1736; 2008; 2045; 2604; 3778; 4488
Eco53kI	GAG!CTC	1	2006
EgeI	GGC!GCC	3	759; 1455; 3414
EheI	GGC!GCC	3	759; 1455; 3414
ErhI	C!CWWGG	6	360; 611; 3142; 3235; 3845; 4250
EsaBC3I	TC!GA	19	780; 1242; 1476; 1938; 1999; 2003; 2016; 2029; 2563; 3254; 3527; 3683; 3707; 3743; 3905; 4096; 4141; 4396; 5234
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	22	304; 364; 615; 660; 738; 1179; 1356; 1434; 1875; 2843; 2983; 3055; 3146; 3287; 3632; 3818; 3849; 3875; 4231; 4615; 5335; 5386
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; 2075; 2085; 2151; 2196; 2401; 2829; 2841; 2972; 2981; 3044; 3053; 3077; 3144; 3168; 3285; 3349; 3630; 3655; 3816; 3847; 3873; 3945; 4161; 4229; 4307; 4359; 4520; 4537; 4539; 4541; 4613; 4891; 5080; 5196; 5269; 5333; 5384
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	3	879; 1575; 3753
FalI	!NNNNNNNNAAGNNNNNCTT	3	847; 1543; 3721
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3564; 4096; 4205
FaqI	!NNNNNNNNNNNNNGTCCC	4	2929; 3001; 3065; 4360
FatI	!CATG	22	300; 360; 611; 656; 734; 1175; 1352; 1430; 1871; 2839; 2979; 3051; 3142; 3283; 3628; 3814; 3845; 3871; 4227; 4611; 5331; 5382
FauI	CCCGCNNNN!	10	93; 119; 286; 1002; 1698; 2735; 3090; 3111; 4307; 4439
FauI	!NNNNNNNGCGGG	6	2032; 2666; 3536; 4073; 4211; 4358
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2070
FblI	GT!MKAC	1	2028
FmuI	GGNC!C	19	86; 279; 792; 818; 1006; 1098; 1266; 1488; 1514; 1702; 1794; 1962; 2045; 2523; 3932; 4377; 4423; 4481; 4514
Fnu4HI	GC!NGC	44	621; 798; 810; 912; 1026; 1029; 1080; 1216; 1317; 1494; 1506; 1608; 1722; 1725; 1776; 1912; 2190; 2709; 2731; 2745; 3183; 3322; 3374; 3385; 3475; 3480; 3517; 3558; 3645; 3648; 3651; 3887; 3983; 4024; 4038; 4152; 4491; 4506; 4717; 4923; 4926; 4991; 5134; 5289
FokI	GGATGNNNNNNNNN!	5	1320; 3280; 3737; 3762; 4216
FokI	!NNNNNNNNNNNNNCATCC	7	769; 901; 1186; 1465; 1597; 1882; 3086
FriOI	GRGCY!C	7	1040; 1736; 2008; 2045; 2604; 3778; 4488
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	3	643; 1339; 3515
FspAI	RTGC!GCAY	2	643; 1339
FspBI	C!TAG	8	592; 2061; 2262; 2680; 3236; 4251; 4585; 4838
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; 2050; 2065; 2096; 2135; 2149; 2290; 2385; 2409; 2432; 2455; 2473; 2495; 2516; 2535; 2554; 2583; 2604; 2618; 2644; 2732; 2758; 2807; 2848; 2866; 2905; 2921; 2959; 3016; 3031; 3088; 3108; 3122; 3139; 3153; 3190; 3205; 3248; 3331; 3398; 3429; 3449; 3464; 3509; 3523; 3589; 3603; 3622; 3638; 3679; 3699; 3746; 3796; 3812; 3832; 3857; 3877; 3900; 3927; 3945; 3971; 4011; 4037; 4061; 4117; 4131; 4159; 4202; 4223; 4258; 4302; 4390; 4414; 4436; 4456; 4472; 4493; 4507; 4526; 4610; 4630; 4658; 4673; 4707; 4749; 4776; 4791; 4836; 4860; 4874; 4896; 4922; 4942; 4966; 4992; 5040; 5059; 5078; 5104; 5139; 5184; 5214; 5228; 5279; 5293; 5318; 5334; 5355; 5384

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	!NNNNNNNNNNNNNNNGG	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; 2016; 2040; 2084; 2184; 2253; 2361; 2410; 2432; 2460; 2496; 2541; 2570; 2606; 2625; 2653; 2673; 2736; 2759; 2867; 2899; 2917; 2946; 2989; 3018; 3129; 3158; 3201; 3222; 3250; 3283; 3303; 3328; 3355; 3380; 3402; 3430; 3456; 3477; 3528; 3549; 3567; 3615; 3651; 3707; 3732; 3756; 3785; 3808; 3832; 3858; 3880; 3899; 3924; 3964; 4000; 4065; 4150; 4174; 4203; 4237; 4258; 4278; 4323; 4350; 4369; 4402; 4454; 4485; 4512; 4564; 4662; 4733; 4778; 4839; 4904; 4938; 4964; 4982; 5018; 5088; 5111; 5133; 5157; 5190; 5238; 5273; 5291; 5348
Fsp4HI	GC!NGC	44	621; 798; 810; 912; 1026; 1029; 1080; 1216; 1317; 1494; 1506; 1608; 1722; 1725; 1776; 1912; 2190; 2709; 2731; 2745; 3183; 3322; 3374; 3385; 3475; 3480; 3517; 3558; 3645; 3648; 3651; 3887; 3983; 4024; 4038; 4152; 4491; 4506; 4717; 4923; 4926; 4991; 5134; 5289
GdiII	C!GGCCR	5	675; 1080; 1371; 1776; 3319
GdiII	Y!GGCCG	5	1080; 1776; 3319; 3884; 3911
GlaI	GC!GC	29	596; 643; 759; 1165; 1167; 1339; 1455; 1861; 1863; 2678; 2686; 2712; 2734; 2743; 2756; 2787; 3406; 3414; 3478; 3515; 3781; 4041; 4217; 4303; 4706; 4815; 4989; 5089; 5156
Glul	GC!NGC	44	621; 798; 810; 912; 1026; 1029; 1080; 1216; 1317; 1494; 1506; 1608; 1722; 1725; 1776; 1912; 2190; 2709; 2731; 2745; 3183; 3322; 3374; 3385; 3475; 3480; 3517; 3558; 3645; 3648; 3651; 3887; 3983; 4024; 4038; 4152; 4491; 4506; 4717; 4923; 4926; 4991; 5134; 5289
GsaI	CCCAG!C	5	1043; 1739; 2960; 3032; 5031
GsaI	GCTGG!G	3	1035; 1731; 3921
GsuI	CTGGAGNNNNNNNNNNNNNN!	3	964; 1660; 4253
GsuI	!NNNNNNNNNNNNNNCTCCAG	3	1192; 1888; 4196
HaeI	WGG!CCW	9	1255; 1291; 1951; 1987; 3234; 3495; 4857; 5309; 5320
HaeII	RGCG!Y	7	598; 761; 1457; 2680; 2688; 3416; 5091
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; 2043; 2379; 2521; 3176; 3182; 3191; 3234; 3321; 3495; 3886; 3913; 4422; 4479; 4512; 4857; 5291; 5309; 5320
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2088; 3609
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2054; 3575
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2087; 3608
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2056; 3577
HapII	C!CGG	34	601; 722; 1083; 1113; 1146; 1181; 1203; 1266; 1304; 1418; 1779; 1809; 1842; 1877; 1899; 1962; 2045; 2055; 2631; 3318; 3395; 3417; 3445; 3576; 3666; 3733; 3914; 4189; 4197; 4289; 4763; 4953; 4979; 5126
HgaI	GACGCNNNNN!	3	526; 4123; 4202
HgaI	!NNNNNNNNNNGCGTC	3	2746; 4641; 5219
HhaI	GCG!C	29	597; 644; 760; 1166; 1168; 1340; 1456; 1862; 1864; 2679; 2687; 2713; 2735; 2744; 2757; 2788; 3407; 3415; 3479; 3516; 3782; 4042; 4218; 4304; 4707; 4816; 4990; 5090; 5157
Hin1I	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3413; 4115; 4194
Hin1II	CATG!	22	304; 364; 615; 660; 738; 1179; 1356; 1434; 1875; 2843; 2983; 3055; 3146; 3287; 3632; 3818; 3849; 3875; 4231; 4615; 5335; 5386
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	2087; 3608
Hin4I	!NNNNNNNGABNNNNNRTC	3	2055; 3576; 3606
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	2087; 3608; 3638
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	2055; 3576
Hin6I	G!CGC	29	595; 642; 758; 1164; 1166; 1338; 1454; 1860; 1862; 2677; 2685; 2711; 2733; 2742; 2755; 2786; 3405; 3413; 3477; 3514; 3780; 4040; 4216; 4302; 4705; 4814; 4988; 5088; 5155
HinP1I	G!CGC	29	595; 642; 758; 1164; 1166; 1338; 1454; 1860; 1862; 2677; 2685; 2711; 2733; 2742; 2755; 2786; 3405; 3413; 3477; 3514; 3780; 4040; 4216; 4302; 4705; 4814; 4988; 5088; 5155
HincII	GTY!RAC	2	2029; 2176
HindII	GTY!RAC	2	2029; 2176

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HindIII	A!AGCTT	1	2010
HinfI	G!ANTC	13	410; 740; 1436; 2456; 2478; 2888; 3898; 4032; 4084; 4142; 4179; 4961; 5357
HpaI	GTT!AAC	1	2176
HpaII	C!CGG	34	601; 722; 1083; 1113; 1146; 1181; 1203; 1266; 1304; 1418; 1779; 1809; 1842; 1877; 1899; 1962; 2045; 2055; 2631; 3318; 3395; 3417; 3445; 3576; 3666; 3733; 3914; 4189; 4197; 4289; 4763; 4953; 4979; 5126
HphI	GGTGANNNNNNNN!	7	376; 627; 981; 1323; 1677; 4484; 4600
HphI	!NNNNNNNTCACC	6	870; 1185; 1566; 1881; 2530; 3591
Hpy8I	GTN!NAC	17	201; 539; 577; 672; 825; 978; 1056; 1368; 1521; 1674; 1752; 2029; 2176; 2460; 2477; 2532; 5019
Hpy99I	CGWCG!	12	709; 1003; 1405; 1699; 2033; 3503; 3531; 3825; 3840; 4117; 4502; 5235
Hpy166II	GTN!NAC	17	201; 539; 577; 672; 825; 978; 1056; 1368; 1521; 1674; 1752; 2029; 2176; 2460; 2477; 2532; 5019
Hpy188I	TCN!GA	11	585; 2587; 3196; 3380; 3724; 4077; 4178; 4657; 4791; 5144; 5222
Hpy188III	TC!NNGA	26	648; 918; 1209; 1344; 1614; 1905; 2061; 2840; 2892; 3205; 3258; 3431; 3747; 3756; 3839; 3895; 3939; 4029; 4062; 4131; 4612; 4686; 4769; 4867; 4965; 5099
HpyAV	CCTTCNNNNNN!	9	726; 780; 828; 1422; 1476; 1524; 4058; 4165; 4844
HpyAV	!NNNNNGAAGG	19	624; 966; 1095; 1149; 1221; 1281; 1320; 1662; 1791; 1845; 1917; 1977; 2646; 3541; 4270; 4286; 4469; 4786; 5096
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 669; 1365; 2033; 2504; 3793; 3909; 4017; 4340; 4831; 5301; 5372
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 746; 1088; 1442; 1784; 2473; 2485; 2528; 2638; 3529; 3716; 4497; 4630
HpyCH4V	TG!CA	21	825; 978; 1521; 1674; 2024; 2162; 2189; 2257; 2974; 2983; 3046; 3055; 3170; 3246; 3305; 3464; 3639; 3653; 4723; 5019; 5386
HpyF3I	C!TNAG	6	2893; 3195; 4076; 4525; 4648; 5057
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; 2640; 2670; 2697; 2739; 2980; 3052; 3103; 3182; 3404; 3488; 3511; 3650; 3773; 3856; 4123; 4310; 4514; 4713; 5285
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 758; 1454; 3413; 4115; 4194
Hsp92II	CATG!	22	304; 364; 615; 660; 738; 1179; 1356; 1434; 1875; 2843; 2983; 3055; 3146; 3287; 3632; 3818; 3849; 3875; 4231; 4615; 5335; 5386
HspAI	G!CGC	29	595; 642; 758; 1164; 1166; 1338; 1454; 1860; 1862; 2677; 2685; 2711; 2733; 2742; 2755; 2786; 3405; 3413; 3477; 3514; 3780; 4040; 4216; 4302; 4705; 4814; 4988; 5088; 5155
KasI	G!GCGCC	3	757; 1453; 3412
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	2037
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	2040
Ksp22I	T!GATCA	1	2070
KspAI	GTT!AAC	1	2176
Kzo9I	!GATC	28	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 1999; 2048; 2057; 2070; 3250; 3254; 3273; 3584; 3662; 3743; 3752; 3830; 4206; 4222; 4581; 4593; 4671; 4679; 4690; 4765
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	3757; 3967
LpnI	RG!GCGY	7	596; 759; 1455; 2678; 2686; 3414; 5089
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; 2058; 2150; 2455; 2644; 2867; 2905; 2921; 2961; 3016; 3033; 3133; 3218; 3331; 3408; 3430; 3453; 3589; 3603; 3622; 3679; 3746; 3796; 3812; 3869; 3927; 4136; 4202; 4226; 4302; 4391; 4494; 4527; 4758; 4776; 4922; 4942; 4966; 4992; 5041; 5139; 5184; 5214; 5293; 5318; 5355

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; 2030; 2496; 2616; 2673; 2736; 2934; 2946; 3006; 3018; 3250; 3295; 3338; 3380; 3402; 3430; 3477; 3539; 3561; 3651; 3718; 3741; 3785; 3880; 3899; 3924; 4073; 4174; 4217; 4274; 4364; 4467; 4494; 4512; 4748; 4785; 4938; 4964; 5104; 5122; 5157; 5238; 5291
Lsp1109I	GCAGCNNNNNNNN!	8	821; 1517; 2201; 3486; 3528; 4049; 4502; 5002
Lsp1109I	!NNNNNNNNNNNNNGCTGC	10	784; 1202; 1480; 1898; 2695; 3360; 3544; 3637; 4703; 4909
LweI	GCATCNNNNN!	10	653; 923; 1349; 1619; 2229; 2992; 3064; 3712; 3776; 4051
LweI	!NNNNNNNNNGATGC	7	357; 1202; 1898; 3371; 3626; 3842; 5234
MabI	A!CCWGGT	1	3002
MaeI	C!TAG	8	592; 2061; 2262; 2680; 3236; 4251; 4585; 4838
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 746; 1088; 1442; 1784; 2473; 2485; 2528; 2638; 3529; 3716; 4497; 4630
MaeIII	!GTNAC	14	61; 148; 497; 747; 1443; 2201; 2702; 2714; 3533; 3839; 4529; 4795; 4911; 4974
MalI	GA!TC	28	587; 841; 961; 1123; 1299; 1537; 1657; 1819; 2001; 2050; 2059; 2072; 3252; 3256; 3275; 3586; 3664; 3745; 3754; 3832; 4208; 4224; 4583; 4595; 4673; 4681; 4692; 4767
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2837; 4026
MbiI	GAG!CGG	6	620; 1025; 1316; 1721; 2673; 4080
MboI	!GATC	28	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 1999; 2048; 2057; 2070; 3250; 3254; 3273; 3584; 3662; 3743; 3752; 3830; 4206; 4222; 4581; 4593; 4671; 4679; 4690; 4765
MboII	GAAGANNNNNNNN!	9	1026; 1233; 1722; 1929; 2669; 2897; 3774; 3984; 4603
MboII	!NNNNNNNTCTTC	6	843; 1539; 4064; 4231; 4431; 4674
McaTI	GCGC!GC	2	1167; 1863
MfeI	C!AATTG	1	2163
MflI	R!GATCY	13	585; 839; 1297; 1535; 2048; 2057; 3584; 3830; 4222; 4581; 4593; 4679; 4690
MhII	GDGCH!C	18	667; 827; 980; 1040; 1363; 1523; 1676; 1736; 2008; 2045; 2604; 3359; 3452; 3526; 3716; 3778; 4488; 5021
MisI	TGG!CCA	1	3495
MluI	A!CGCGT	1	2299
MluNI	TGG!CCA	1	3495
MlyI	GAGTCNNNNN!	2	2465; 2897
MlyI	!NNNNNGACTC	4	404; 2472; 4078; 4955
Mly113I	GG!CGCC	3	758; 1454; 3413
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	2506
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4938; 5122
MnII	CCTCNNNNNNN!	7	2132; 3196; 4014; 4220; 4534; 4904; 5228
MnII	!NNNNNNNGAGG	29	541; 654; 687; 747; 864; 897; 939; 1041; 1245; 1350; 1383; 1443; 1560; 1593; 1635; 1737; 1941; 2092; 2557; 2888; 3166; 3209; 3224; 3264; 3328; 3464; 3821; 4251; 5154
Mph1103I	ATGCA!T	3	2985; 3057; 5388
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	5	721; 1417; 2630; 3913; 4196
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	1	3495
MseI	T!TAA	15	7; 2114; 2175; 2296; 2317; 2328; 2340; 2351; 2368; 2466; 2737; 4556; 4570; 4575; 4627
MslI	CAYNN!NNRTG	7	365; 613; 649; 1048; 1345; 1744; 3850
MspI	C!CGG	34	601; 722; 1083; 1113; 1146; 1181; 1203; 1266; 1304; 1418; 1779; 1809; 1842; 1877; 1899; 1962; 2045; 2055; 2631; 3318; 3395; 3417; 3445; 3576; 3666; 3733; 3914; 4189; 4197; 4289; 4763; 4953; 4979; 5126
Msp20I	TGG!CCA	1	3495
MspA1I	CMG!CKG	5	2039; 2911; 3519; 4748; 4993
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	279	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; 2028; 2050; 2067; 2081; 2096; 2120; 2137; 2150; 2191; 2205; 2218; 2236; 2274; 2289; 2307; 2348; 2372; 2392; 2410; 2431; 2454; 2486; 2501; 2523; 2541; 2554; 2575; 2592; 2605; 2618; 2634; 2647; 2677; 2692; 2717; 2735; 2748; 2763; 2787; 2801; 2825; 2850; 2866; 2904; 2920; 2959; 2973; 2987; 3015; 3031; 3045; 3059; 3088; 3101; 3122; 3131; 3153; 3183; 3199; 3217; 3247; 3270; 3294; 3318; 3337; 3365; 3391; 3407; 3420; 3443; 3457; 3477; 3490; 3504; 3523; 3537; 3550; 3566; 3581; 3594; 3610; 3625; 3641; 3666; 3685; 3701; 3714; 3727; 3745; 3759; 3773; 3789; 3811; 3827; 3846; 3868; 3884; 3907; 3926; 3940; 3956; 3970; 3990; 4006; 4019; 4041; 4074; 4088; 4108; 4121; 4135; 4189; 4202; 4225; 4238; 4257; 4274; 4301; 4337; 4370; 4389; 4414; 4435; 4462; 4475; 4492; 4506; 4521; 4537; 4597; 4622; 4638; 4660; 4673; 4687; 4718; 4732; 4757; 4775; 4790; 4803; 4822; 4835; 4850; 4879; 4898; 4916; 4941; 4956; 4975; 4991; 5010; 5028; 5044; 5058; 5077; 5104; 5127; 5149; 5168; 5183; 5196; 5213; 5233; 5260; 5273; 5292; 5317; 5340; 5354; 5367; 5384
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; 2000; 2024; 2041; 2065; 2094; 2123; 2165; 2248; 2286; 2310; 2333; 2362; 2406; 2428; 2460; 2496; 2513; 2534; 2571; 2591; 2608; 2625; 2660; 2678; 2696; 2713; 2737; 2759; 2786; 2814; 2840; 2878; 2899; 2916; 2934; 2957; 2978; 3006; 3029; 3050; 3068; 3089; 3106; 3129; 3153; 3173; 3191; 3213; 3244; 3266; 3292; 3311; 3328; 3356; 3375; 3394; 3412; 3430; 3451; 3473; 3497; 3530; 3550; 3568; 3589; 3615; 3642; 3659; 3676; 3693; 3719; 3741; 3763; 3781; 3801; 3820; 3842; 3880; 3900; 3924; 3944; 3964; 3991; 4015; 4048; 4067; 4095; 4117; 4146; 4174; 4199; 4218; 4237; 4258; 4275; 4292; 4323; 4350; 4370; 4393; 4413; 4450; 4467; 4486; 4512; 4532; 4571; 4598; 4617; 4635; 4672; 4690; 4731; 4749; 4775; 4792; 4824; 4853; 4881; 4902; 4925; 4944; 4965; 4983; 5000; 5018; 5044; 5065; 5085; 5105; 5123; 5144; 5170; 5187; 5206; 5225; 5254; 5273; 5291; 5310; 5328; 5346; 5369
MspR9I	CC!NGG	31	90; 283; 787; 882; 931; 943; 1181; 1266; 1304; 1305; 1483; 1578; 1627; 1639; 1877; 1962; 2045; 2046; 2949; 3004; 3021; 3417; 3577; 3800; 4190; 4379; 4482; 4954; 5172; 5185; 5306
MssI	GTTT!AAC	0	
MunI	CA!AATTG	1	2163
MvaI	CC!WGG	19	90; 283; 787; 882; 931; 943; 1483; 1578; 1627; 1639; 2949; 3004; 3021; 3800; 4379; 4482; 5172; 5185; 5306
Mva1269I	GAATGCN!	1	2164
Mva1269I	G!CATTC	1	2257
MvnI	CG!CG	18	60; 1166; 1862; 2039; 2301; 2337; 2713; 2733; 2757; 2788; 3479; 3780; 4218; 4302; 4365; 4434; 4707; 5288
MvrI	CGAT!CG	1	2002
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; 2640; 2670; 2697; 2739; 2980; 3052; 3103; 3182; 3404; 3488; 3511; 3650; 3773; 3856; 4123; 4310; 4514; 4713; 5285
NaeI	GCC!GGC	5	723; 1419; 2632; 3915; 4198
NarI	GG!CGCC	3	758; 1454; 3413
NciI	CC!SGG	12	1181; 1266; 1304; 1305; 1877; 1962; 2045; 2046; 3417; 3577; 4190; 4954
NcoI	C!CATGG	4	360; 611; 3142; 3845
NdeI	CA!TATG	1	234

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeII	!GATC	28	585; 839; 959; 1121; 1297; 1535; 1655; 1817; 1999; 2048; 2057; 2070; 3250; 3254; 3273; 3584; 3662; 3743; 3752; 3830; 4206; 4222; 4581; 4593; 4671; 4679; 4690; 4765
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	5	721; 1417; 2630; 3913; 4196
NheI	G!CTAGC	1	591
NlaIII	CATG!	22	304; 364; 615; 660; 738; 1179; 1356; 1434; 1875; 2843; 2983; 3055; 3146; 3287; 3632; 3818; 3849; 3875; 4231; 4615; 5335; 5386
NlaIV	GGN!NCC	35	467; 666; 726; 759; 791; 984; 1005; 1037; 1117; 1207; 1362; 1422; 1455; 1487; 1680; 1701; 1733; 1813; 1903; 2035; 2043; 2050; 2568; 2589; 2601; 2792; 2953; 3025; 3414; 3449; 4297; 4376; 4421; 5264; 5303
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2245; 2560; 4152
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	6	347; 991; 1072; 1687; 1768; 5224
Nli3877I	CYCGR!G	8	872; 1064; 1286; 1307; 1568; 1760; 1982; 2048
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	4	861; 1557; 3202; 3638
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	3167
NmeDI	RCCGGYNNNNNNNN!	9	612; 733; 1124; 1429; 1820; 2642; 3744; 3925; 4208
NmeDI	!NNNNNNNNNNNNRCCGGY	9	587; 708; 1099; 1404; 1795; 2617; 3719; 3900; 4183
NmuCI	!GTSAC	5	747; 1443; 2702; 3533; 3839
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	3	643; 1339; 3515
NsiI	ATGCA!T	3	2985; 3057; 5388
NspI	RCATG!Y	4	2983; 3055; 3818; 5335
NspV	TT!CGAA	2	2015; 4095
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; 2036; 3720
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2983; 3055; 3818
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	2	2839; 4611
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4378; 4481
PauI	G!CGCGC	2	1164; 1860
PceI	AGG!CCT	1	3234
PciI	A!CATGT	1	5331
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3757; 3967
PcsI	WCGNNNN!NNNCGW	10	1238; 1256; 1934; 1952; 3707; 3784; 4027; 4101; 4494; 5012
PctI	GAATGCN!	1	2164
PctI	G!CATTC	1	2257
PdiI	GCC!GGC	5	723; 1419; 2632; 3915; 4198
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	740; 1436; 3898; 4032; 4142; 4179; 5357
Pfi23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3531
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	1	4188
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; 2043; 2379; 2521; 3176; 3182; 3191; 3234; 3321; 3495; 3886; 3913; 4422; 4479; 4512; 4857; 5291; 5309; 5320
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3794
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	3359; 3614
PleI	GAGTCNNNN!	2	2464; 2896
PleI	!NNNNNGACTC	4	404; 2472; 4078; 4955
Ple19I	CGAT!CG	1	2002
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	2495
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	4625
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4657
PpiI	!NNNNNNNGAACNNNNNCTC	1	2463
PpsI	GAGTCNNNN!	2	2464; 2896
PpsI	!NNNNNGACTC	4	404; 2472; 4078; 4955
Ppu10I	A!TGCAT	3	2981; 3053; 5384
Ppu21I	YAC!GTR	5	340; 747; 1443; 2529; 3717
PpuMI	RG!GWCCY	2	815; 1511
Psci	A!CATGT	1	5331
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2196; 2401
Psp03I	GGWC!C	4	818; 1514; 3932; 4377
Psp5II	RG!GWCCY	2	815; 1511
Psp6I	!CCWGG	19	88; 281; 785; 880; 929; 941; 1481; 1576; 1625; 1637; 2947; 3002; 3019; 3798; 4377; 4480; 5170; 5183; 5304
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	2008
PspCI	CAC!GTG	2	747; 1443
PspEI	G!GTNACC	0	
PspGI	!CCWGG	19	88; 281; 785; 880; 929; 941; 1481; 1576; 1625; 1637; 2947; 3002; 3019; 3798; 4377; 4480; 5170; 5183; 5304
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; 2035; 2043; 2050; 2568; 2589; 2601; 2792; 2953; 3025; 3414; 3449; 4297; 4376; 4421; 5264; 5303
PspOMI	G!GGCCC	1	2041
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 3143; 4142
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3545
PspPI	G!GNCC	19	83; 276; 789; 815; 1003; 1095; 1263; 1485; 1511; 1699; 1791; 1959; 2042; 2520; 3929; 4374; 4420; 4478; 4511
PspPPI	RG!GWCCY	2	815; 1511
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	2966; 3038; 4544
PspPRI	!NNNNNNNNNNNNNNCTGRGG	2	2879; 4074
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; 4514
PstI	CTGCA!G	1	2026
PstNI	CAGNNN!CTG	4	1215; 1911; 4514; 4922
PsuI	R!GATCY	13	585; 839; 1297; 1535; 2048; 2057; 3584; 3830; 4222; 4581; 4593; 4679; 4690
PsyI	GACN!NNGTC	1	3531
PteI	G!CGCGC	2	1164; 1860
PvuI	CGAT!CG	1	2002
PvuII	CAG!CTG	2	2911; 3519
RcaI	T!CATGA	2	2839; 4611
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3928
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	2142
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; 2035; 3719

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; 2050; 2067; 2120; 2149; 2191; 2274; 2312; 2348; 2432; 2454; 2486; 2523; 2541; 2560; 2575; 2617; 2634; 2651; 2686; 2700; 2717; 2739; 2763; 2787; 2852; 2866; 2904; 2920; 2960; 2973; 2992; 3015; 3032; 3045; 3064; 3094; 3115; 3132; 3155; 3190; 3217; 3248; 3270; 3296; 3318; 3337; 3365; 3401; 3420; 3443; 3457; 3477; 3490; 3504; 3523; 3537; 3556; 3588; 3602; 3615; 3641; 3672; 3685; 3702; 3719; 3733; 3750; 3768; 3783; 3811; 3827; 3846; 3868; 3884; 3907; 3926; 3951; 3970; 3990; 4017; 4041; 4074; 4093; 4121; 4135; 4201; 4225; 4240; 4263; 4284; 4301; 4349; 4376; 4390; 4419; 4443; 4476; 4493; 4513; 4526; 4539; 4597; 4624; 4643; 4673; 4698; 4718; 4732; 4757; 4775; 4812; 4850; 4879; 4907; 4921; 4941; 4956; 4977; 4991; 5010; 5028; 5044; 5084; 5104; 5131; 5149; 5170; 5183; 5196; 5213; 5237; 5260; 5292; 5317; 5344; 5366
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; 2024; 2041; 2094; 2123; 2165; 2248; 2286; 2322; 2406; 2428; 2460; 2497; 2515; 2534; 2591; 2608; 2625; 2660; 2678; 2698; 2718; 2737; 2761; 2826; 2878; 2934; 2966; 2989; 3006; 3038; 3068; 3089; 3106; 3129; 3164; 3191; 3222; 3244; 3270; 3292; 3311; 3339; 3375; 3394; 3417; 3438; 3456; 3473; 3497; 3530; 3562; 3589; 3615; 3646; 3676; 3693; 3719; 3742; 3763; 3785; 3805; 3825; 3842; 3881; 3900; 3925; 3944; 3964; 3991; 4015; 4048; 4067; 4095; 4117; 4175; 4199; 4218; 4237; 4258; 4275; 4323; 4350; 4370; 4393; 4417; 4450; 4467; 4487; 4513; 4571; 4598; 4617; 4647; 4672; 4692; 4731; 4749; 4786; 4824; 4853; 4881; 4902; 4930; 4951; 4984; 5002; 5058; 5078; 5105; 5123; 5144; 5170; 5187; 5211; 5234; 5266; 5291; 5318; 5340; 5369
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	2040
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2560; 4347; 5140
SimI	!GACCC	4	106; 3841; 4409; 4657
SinI	G!GWCC	4	815; 1511; 3929; 4374
SlaI	C!TCGAG	0	
SmaI	CCC!GGG	2	1305; 2046
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	7	365; 613; 649; 1048; 1345; 1744; 3850
SmlI	C!TYRAG	5	2007; 3804; 4686; 4963; 5225
SmoI	C!TYRAG	5	2007; 3804; 4686; 4963; 5225
SmuI	CCCGCNNNN!	10	93; 119; 286; 1002; 1698; 2735; 3090; 3111; 4307; 4439
SmuI	!NNNNNNGCGGG	6	2032; 2666; 3536; 4073; 4211; 4358
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2983; 3055; 3818
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 2017; 2163; 2227; 2305; 2331; 2342; 2989; 3061; 3153; 4571
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	2	815; 1511
SseBI	AGG!CCT	1	3234

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; 2037; 2728; 2731; 2745; 2835; 3083; 3095; 3104; 3116; 3126; 3137; 3183; 3322; 3385; 3887; 3932; 3998; 4024; 4149; 4152; 4300; 4432; 4739; 4883; 5379
SsiI	G!CGG	36	370; 403; 528; 620; 911; 1025; 1028; 1079; 1218; 1316; 1607; 1721; 1724; 1775; 1914; 2039; 2673; 2700; 2788; 2898; 3479; 3543; 3644; 3647; 3927; 3982; 4080; 4218; 4365; 4505; 4748; 4993; 5114; 5133; 5260; 5288
SspI	AAT!ATT	2	2321; 2874
SspDI	G!GCGCC	3	757; 1453; 3412
SspD5I	GGTANNNNNNNN!	7	376; 627; 981; 1323; 1677; 4484; 4600
SspD5I	!NNNNNNNNTCACC	6	869; 1184; 1565; 1880; 2529; 3590
SstI	GAGCT!C	1	2008
SstII	CCGC!GG	1	2040
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; 2051; 2612; 2734; 3089; 3110; 3423; 3826; 3965; 4036; 4306; 4438; 4668; 5106
Sth132I	!NNNNNNNNCCGGG	20	15; 407; 470; 1296; 2031; 2613; 2665; 2766; 3493; 3535; 3568; 4072; 4181; 4210; 4357; 4461; 4492; 4945; 4989; 5197
Sth302II	CC!GG	34	602; 723; 1084; 1114; 1147; 1182; 1204; 1267; 1305; 1419; 1780; 1810; 1843; 1878; 1900; 1963; 2046; 2056; 2632; 3319; 3396; 3418; 3446; 3577; 3667; 3734; 3915; 4190; 4198; 4290; 4764; 4954; 4980; 5127
StrI	C!TCGAG	0	
StsI	GGATGNNNNNNNNNN!	5	1321; 3281; 3738; 3763; 4217
StsI	!NNNNNNNNNNNNNNNCATCC	7	768; 900; 1185; 1464; 1596; 1881; 3085
StuI	AGG!CCT	1	3234
StyI	C!CWGGG	6	360; 611; 3142; 3235; 3845; 4250
StyD4I	!CCNGG	31	88; 281; 785; 880; 929; 941; 1179; 1264; 1302; 1303; 1481; 1576; 1625; 1637; 1875; 1960; 2043; 2044; 2947; 3002; 3019; 3415; 3575; 3798; 4188; 4377; 4480; 4952; 5170; 5183; 5304
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 669; 1365; 2033; 2504; 3793; 3909; 4017; 4340; 4831; 5301; 5372
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 749; 1091; 1445; 1787; 2476; 2488; 2531; 2641; 3532; 3719; 4500; 4633
TaqI	T!CGA	19	779; 1241; 1475; 1937; 1998; 2002; 2015; 2028; 2562; 3253; 3526; 3682; 3706; 3742; 3904; 4095; 4140; 4395; 5233
TaqII	GACCGANNNNNNNNNN!	5	766; 1462; 2433; 3450; 4118
TaqII	!NNNNNNNNNTCGGTC	1	4362
TaqII	CACCCANNNNNNNNNN!	2	742; 1438
TaqII	!NNNNNNNNNTGGGTG	3	172; 3317; 3909
TasI	!AATT	11	18; 2017; 2163; 2227; 2305; 2331; 2342; 2989; 3061; 3153; 4571
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; 2733; 2747; 3185; 3324; 3387; 3482; 3647; 3650; 3889; 3985; 4026; 4154; 4508; 5136; 5291
TfiI	G!AWTC	7	740; 1436; 3898; 4032; 4142; 4179; 5357
TliI	C!TCGAG	0	
TruII	T!TAA	15	7; 2114; 2175; 2296; 2317; 2328; 2340; 2351; 2368; 2466; 2737; 4556; 4570; 4575; 4627
Tru9I	T!TAA	15	7; 2114; 2175; 2296; 2317; 2328; 2340; 2351; 2368; 2466; 2737; 4556; 4570; 4575; 4627
TscAI	CASTGNN!	5	2259; 3542; 4652; 4923; 4936
TseI	G!CWGC	19	797; 809; 1215; 1493; 1505; 1911; 2189; 2708; 3373; 3474; 3516; 3557; 3650; 4037; 4490; 4716; 4922; 4925; 4990
TsoI	TARCCANNNNNNNNNN!	2	2385; 2732
TsoI	!NNNNNNNNNTGGYTA	2	2190; 3942
Tsp45I	!GTSAC	5	747; 1443; 2702; 3533; 3839
Tsp509I	!AATT	11	18; 2017; 2163; 2227; 2305; 2331; 2342; 2989; 3061; 3153; 4571
TspDTI	ATGAANNNNNNNNNN!	5	1027; 1723; 2171; 3472; 4176
TspDTI	!NNNNNNNNNTTCAT	4	26; 3890; 4346; 4553

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspEI	!AATT	11	18; 2017; 2163; 2227; 2305; 2331; 2342; 2989; 3061; 3153; 4571
TspGWI	ACGGANNNNNNNNNNN!	1	4288
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	2	1303; 2044
TspRI	CASTGNN!	5	2259; 3542; 4652; 4923; 4936
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3531
Tth111II	CAARCANNNNNNNNNN!	3	871; 1567; 4740
Tth111II	!NNNNNNNNNTGYTTG	3	3848; 4708; 4747
UnbI	!GGNCC	19	82; 275; 788; 814; 1002; 1094; 1262; 1484; 1510; 1698; 1790; 1958; 2041; 2519; 3928; 4373; 4419; 4477; 4510
Van91I	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	5	823; 976; 1519; 1672; 5017
VpaK11AI	!GGWCC	4	814; 1510; 3928; 4373
VpaK11BI	G!GWCC	4	815; 1511; 3929; 4374
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	2	628; 1324
XapI	R!AATTY	4	2017; 2227; 2331; 2342
XbaI	T!CTAGA	1	2060
XceI	RCATG!Y	4	2983; 3055; 3818; 5335
XcmI	CCANNNN!NNNTGG	2	1047; 1743
XhoI	C!TCGAG	0	
XhoII	R!GATCY	13	585; 839; 1297; 1535; 2048; 2057; 3584; 3830; 4222; 4581; 4593; 4679; 4690
XmaI	C!CCGGG	2	1303; 2044
XmaJI	C!CTAGG	2	3235; 4250
XmiI	GT!MKAC	1	2028
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	8	592; 2061; 2262; 2680; 3236; 4251; 4585; 4838
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	2	1237; 1933
Zsp2I	ATGCA!T	3	2985; 3057; 5388