

pmKate2-laminB1 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	3	2789; 3254; 3459
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNNGCAGGTG	1	1521
AasI	GACNNNN!NNGTC	4	2779; 3542; 4498; 6287
AatI	AGG!CCT	2	1039; 4292
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1190
AccII	CG!CG	30	60; 1371; 1385; 1419; 1428; 1454; 1519; 1544; 1556; 1609; 1611; 1616; 1618; 1637; 1643; 2019; 3359; 3395; 3771; 3791; 3815; 3846; 4537; 4838; 5276; 5360; 5423; 5492; 5765; 6346
AccIII	T!CCGGA	1	1315
Acc16I	TGC!GCA	2	1495; 4573
Acc36I	ACCTGCNNNN!	2	4739; 5189
Acc36I	!NNNNNNNNNGCAGGT	2	1521; 4358
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	7	465; 664; 724; 1732; 3624; 4470; 4505
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	3895; 5084
AccBSI	GAG!CGG	2	3731; 5138
AceIII	CAGCTCNNNNNNN!	2	1796; 3427
AceIII	!NNNNNNNNNNNGAGCTG	6	552; 610; 1435; 1585; 1648; 2119
AciI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1366; 1369; 1383; 1405; 1635; 2232; 2648; 2706; 3786; 3789; 3803; 3893; 4141; 4153; 4162; 4174; 4184; 4195; 4241; 4380; 4443; 4945; 4990; 5056; 5082; 5207; 5210; 5358; 5490; 5797; 5941; 6437
AciI	G!CGG	35	370; 403; 528; 748; 758; 1070; 1112; 1371; 1391; 1428; 1474; 1556; 1678; 2383; 2589; 3731; 3758; 3846; 3956; 4537; 4601; 4702; 4705; 4985; 5040; 5138; 5276; 5423; 5563; 5806; 6051; 6172; 6191; 6318; 6346
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	13	1844; 1853; 2402; 2738; 3114; 3123; 4339; 4650; 4896; 5288; 5647; 5745; 5831
AcIWI	!NNNNNGATCC	7	580; 1145; 3101; 4715; 5259; 5646; 5743
AcoI	Y!GGCCR	7	1268; 1557; 1601; 4377; 4551; 4942; 4969
AcsI	R!AATTY	5	2698; 2940; 3285; 3389; 3400
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	6	1120; 1861; 2833; 3017; 4617; 5049
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	5847
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	10	122; 175; 258; 444; 1187; 1733; 2043; 4471; 5173; 5252
AdeI	CACNNN!GTG	3	1260; 1804; 3587
AfaI	GT!AC	15	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1480; 2062; 2570; 2574; 2973; 4777
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	29	49; 721; 834; 1000; 1066; 1375; 1440; 1473; 1506; 1950; 2114; 2457; 2743; 3060; 3483; 3809; 4201; 4452; 4996; 5277; 5309; 5441; 5476; 5526; 5558; 5911; 6190; 6356; 6374
AfII	C!TTAAG	0	
AfIII	A!CRYGT	2	3357; 6389
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	11	687; 1137; 2308; 2508; 2712; 2937; 3882; 3926; 3936; 4349; 5925
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjnI	!CCWGG	20	88; 281; 785; 833; 929; 944; 1073; 1433; 1499; 2209; 2450; 4005; 4060; 4077; 4856; 5435; 5538; 6228; 6241; 6362
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	1	2511
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	1	2543
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	613
AlfI	GCANNNNNNTGCNNNNNNNNNN!	3	2120; 4045; 4117
AlfI	!NNNNNNNNNGCANNNNNNNTGC	3	2086; 4011; 4083
AloI	GAACNNNNNTCCNNNNNNNNNN!	2	1011; 3553
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	2	979; 3521
AluI	AG!CT	37	566; 624; 651; 797; 1104; 1333; 1339; 1449; 1458; 1527; 1566; 1599; 1650; 1662; 1692; 1746; 1786; 1876; 2067; 2133; 2262; 2412; 2430; 2511; 3025; 3089; 3250; 3417; 3674; 3969; 4257; 4577; 5035; 5832; 6089; 6135; 6225
AluBI	AG!CT	37	566; 624; 651; 797; 1104; 1333; 1339; 1449; 1458; 1527; 1566; 1599; 1650; 1662; 1692; 1746; 1786; 1876; 2067; 2133; 2262; 2412; 2430; 2511; 3025; 3089; 3250; 3417; 3674; 3969; 4257; 4577; 5035; 5832; 6089; 6135; 6225
AlwI	GGATCNNNN!	13	1844; 1853; 2402; 2738; 3114; 3123; 4339; 4650; 4896; 5288; 5647; 5745; 5831
AlwI	!NNNNNGATCC	7	580; 1145; 3101; 4715; 5259; 5646; 5743
Alw21I	GWGCW!C	7	694; 1335; 1460; 1568; 4584; 4774; 6079
Alw26I	GTCTCN!	2	434; 2519
Alw26I	!NNNNNGAGAC	10	1042; 1231; 1498; 1585; 1990; 2765; 3895; 4313; 5332; 5460
Alw44I	G!TGCAC	2	690; 6075
AlwNI	CAGNNN!CTG	4	1277; 2659; 5572; 5980
Ama87I	C!YCGRG	2	1328; 2546
Aor13HI	T!CCGGA	1	1315
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	4	1790; 4039; 4111; 5573
ApaLI	G!TGCAC	2	690; 6075
ApeKI	G!CWGC	29	809; 953; 1251; 1379; 1449; 1496; 1524; 1527; 1650; 1692; 1762; 1783; 1879; 2403; 2842; 3022; 3247; 3766; 4431; 4532; 4574; 4615; 4708; 5095; 5548; 5774; 5980; 5983; 6048
ApoI	R!AATY	5	2698; 2940; 3285; 3389; 3400
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	2	1508; 4986
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4780; 5433; 6271
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	4870
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	785
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	7	1469; 1571; 2009; 2153; 2978; 3029; 4299
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	1	1677
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	2	3038; 3065
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	5041
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	32	586; 975; 1125; 1151; 1325; 1656; 1723; 1740; 1837; 1846; 2395; 2731; 2757; 3107; 3116; 3129; 4309; 4313; 4332; 4643; 4721; 4802; 4811; 4889; 5265; 5281; 5640; 5652; 5730; 5738; 5749; 5824
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4589
Asp700I	GAANN!NNTTC	2	2303; 2429
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	4293; 5308
AspEI	GACNNN!NNGTC	0	

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AspLEI	GCG!C	38	597; 1387; 1421; 1454; 1496; 1519; 1521; 1544; 1556; 1584; 1611; 1618; 1620; 1643; 1645; 1735; 2021; 2073; 3737; 3745; 3771; 3793; 3802; 3815; 3846; 4465; 4473; 4537; 4574; 4840; 5100; 5276; 5362; 5765; 5874; 6048; 6148; 6215
AspS9I	G!GNCC	14	83; 276; 760; 1003; 1095; 1116; 1393; 1632; 3578; 4987; 5432; 5478; 5536; 5569
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	1774; 5153
AsuC2I	CC!SGG	5	1184; 4475; 4635; 5248; 6012
AsuHPI	GGTGANNNNNNNN!	7	376; 627; 996; 1545; 1816; 5542; 5658
AsuHPI	!NNNNNNNTCACC	4	885; 1560; 3588; 4649
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	1328; 2546
AvaII	G!GWCC	2	4987; 5432
AviII	TGC!GCA	2	1495; 4573
AvrII	C!CTAGG	2	4293; 5308
AxyI	CC!TNAGG	3	869; 3951; 5583
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	8	667; 694; 727; 1304; 2911; 4417; 4510; 6079
BalI	TGG!CCA	2	1270; 4553
BamHI	G!GATCC	1	3106
BanI	G!GYRCC	7	465; 664; 724; 1732; 3624; 4470; 4505
BanII	GRGCY!C	7	1335; 1414; 1460; 1568; 3662; 4836; 5546
BanIII	AT!CGAT	1	4311
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	1161
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	1129
BasI	CCANN!NTGG	0	
BauI	C!ACGAG	3	1255; 5189; 6216
BauI	C!TCGTG	3	1105; 2901; 5063
BbeI	GGCGC!C	2	1736; 4474
Bbr7I	GAAGACNNNNNN!	3	916; 1149; 1217
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	3	911; 1144; 1212
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	4	2358; 4041; 4113; 4876
BbvI	GCAGCNNNNNN!	16	821; 1263; 1391; 1508; 1536; 1774; 1795; 1891; 2415; 3034; 3259; 4544; 4586; 5107; 5560; 6060
BbvI	!NNNNNNNNNNNGCTGC	13	940; 1436; 1508; 1637; 1679; 1863; 2829; 3753; 4418; 4602; 4695; 5761; 5967
Bbv12I	GWGCW!C	7	694; 1335; 1460; 1568; 4584; 4774; 6079
BbvCI	CC!TCAGC	1	2652
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	1002; 3601; 4165; 4691; 5193
BccI	!NNNNNGATGG	8	1338; 1368; 2217; 2373; 2686; 3569; 4349; 4777
BceAI	ACGGCNNNNNNNNNN!	7	822; 966; 1017; 1083; 1646; 4897; 5384
BceAI	!NNNNNNNNNNNNNGCCGT	4	1544; 3612; 4430; 5889
BceFI	ACGGCNNNNNNNNNN!	7	822; 966; 1017; 1083; 1646; 4897; 5384
BceFI	!NNNNNNNNNNNNNGCCGT	4	1545; 3613; 4431; 5890
BcgI	CGANNNNNTGCNNNNNNNNNN!	1	1378
BcgI	!NNNNNNNNNNNGCANNNNNTCG	1	1754
BcgI	GCANNNNNTGCNNNNNNNNNN!	1	1788
BcgI	!NNNNNNNNNNCGANNNNNTGC	1	1344
BciVI	GTATCCNNNNNN!	4	2553; 3900; 4690; 6191
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	2	2756; 3128
BcnI	CC!SGG	5	1184; 4475; 4635; 5248; 6012
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNN!	3	2747; 3151; 6324
BdaI	!NNNNNNNNNTGANNNNNTCA	3	2713; 3117; 6290

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BfaI	C!TAG	11	592; 1289; 2285; 2579; 3119; 3320; 3738; 4294; 5309; 5643; 5896
BfiI	ACTGGGNNNNN!	2	1306; 4420
BfiI	!NNNNCCCAGT	3	289; 1851; 4172
BfmI	C!TRYAG	8	1522; 1528; 1651; 1877; 2272; 3806; 5933; 6124
BfoI	RGCGC!Y	7	598; 1585; 1736; 3738; 3746; 4474; 6149
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNN!	4	2553; 3900; 4690; 6191
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4739; 5189
BfuAI	!NNNNNNNNNGCAGGT	2	1521; 4358
BfuCI	!GATC	32	585; 974; 1124; 1150; 1324; 1655; 1722; 1739; 1836; 1845; 2394; 2730; 2756; 3106; 3115; 3128; 4308; 4312; 4331; 4642; 4720; 4801; 4810; 4888; 5264; 5280; 5639; 5651; 5729; 5737; 5748; 5823
BglI	GCCNNNN!NGGC	7	90; 212; 283; 1079; 1093; 1388; 4246
BglII	A!GATCT	1	1324
BisI	GC!NGC	54	759; 810; 954; 1071; 1252; 1366; 1369; 1380; 1383; 1392; 1405; 1429; 1450; 1497; 1525; 1528; 1557; 1651; 1693; 1763; 1784; 1880; 2232; 2404; 2843; 3023; 3248; 3767; 3789; 3803; 4241; 4380; 4432; 4443; 4533; 4538; 4575; 4616; 4703; 4706; 4709; 4945; 5041; 5082; 5096; 5210; 5549; 5564; 5775; 5981; 5984; 6049; 6192; 6347
BlnI	C!CTAGG	2	4293; 5308
BlpI	GC!TNAGC	1	1408
BlsI	GCN!GC	54	760; 811; 955; 1072; 1253; 1367; 1370; 1381; 1384; 1393; 1406; 1430; 1451; 1498; 1526; 1529; 1558; 1652; 1694; 1764; 1785; 1881; 2233; 2405; 2844; 3024; 3249; 3768; 3790; 3804; 4242; 4381; 4433; 4444; 4534; 4539; 4576; 4617; 4704; 4707; 4710; 4946; 5042; 5083; 5097; 5211; 5550; 5565; 5776; 5982; 5985; 6050; 6193; 6348
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	4987; 5432
Bme1390I	CC!NGG	25	90; 283; 787; 835; 931; 946; 1075; 1184; 1435; 1501; 2211; 2452; 4007; 4062; 4079; 4475; 4635; 4858; 5248; 5437; 5540; 6012; 6230; 6243; 6364
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	1328; 2546
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	14	84; 277; 761; 1004; 1096; 1117; 1394; 1633; 3579; 4988; 5433; 5479; 5537; 5570
BmiI	GGN!NCC	22	467; 666; 726; 1117; 1395; 1432; 1734; 3066; 3108; 3626; 3647; 3659; 3850; 4011; 4083; 4472; 4507; 5355; 5434; 5479; 6322; 6361
BmrI	ACTGGGNNNNN!	2	1306; 4420
BmrI	!NNNNCCCAGT	3	289; 1851; 4172
BmrFI	CC!NGG	25	90; 283; 787; 835; 931; 946; 1075; 1184; 1435; 1501; 2211; 2452; 4007; 4062; 4079; 4475; 4635; 4858; 5248; 5437; 5540; 6012; 6230; 6243; 6364
BmsI	GCATCNNNNN!	11	848; 2560; 2645; 2681; 3085; 3287; 4050; 4122; 4770; 4834; 5109
BmsI	!NNNNNNNNNGATGC	9	357; 1001; 1169; 1770; 2094; 4429; 4684; 4900; 6292
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1306; 4420
BmuI	!NNNNCCCAGT	3	289; 1851; 4172
BoxI	GACNN!NNGTC	1	1243
BpiI	GAAGACNN!	3	911; 1144; 1212
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	4260; 5159
BpI	!NNNNNNNNNGAGNNNNNNCTC	2	4228; 5127
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	4	1522; 2155; 3047; 5311
BpmI	!NNNNNNNNNNNNNNNCTCCAG	3	928; 1417; 5254
Bpu10I	CC!TNAGC	2	1872; 2652
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1774; 5153
Bpu1102I	GC!TNAGC	1	1408

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BpuAI	GAAGACNN!	3	911; 1144; 1212
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	2179; 5765; 6304
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	7	1159; 1319; 1561; 2541; 2784; 4847; 6006
BpuMI	CC!SGG	5	1184; 4475; 4635; 5248; 6012
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	5	1042; 1231; 1585; 1990; 5460
Bsa29I	AT!CGAT	1	4311
BsaAI	YAC!GTR	4	340; 2572; 3587; 4775
BsaBI	GATNN!NNATC	2	3133; 4330
BsaHI	GR!CGYC	10	122; 175; 258; 444; 1187; 1733; 2043; 4471; 5173; 5252
BsaJI	C!CNNGG	23	360; 611; 698; 833; 834; 929; 1369; 2210; 2450; 4005; 4077; 4200; 4235; 4244; 4293; 4634; 4903; 5308; 5435; 5436; 5538; 5539; 6229
BsaMI	GAATGCN!	2	2169; 3222
BsaMI	G!CATTC	1	3315
BsaWI	W!CCGGW	7	600; 1315; 3112; 4502; 5346; 6036; 6183
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	3551
BsaXI	!NNNNNNNGGAGNNNNNNGT	2	2942; 3020
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	2	2972; 3050
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	3521
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTTG	2	3472; 5379
Bsc4I	CCNNNNN!NNGG	29	49; 721; 834; 1000; 1066; 1375; 1440; 1473; 1506; 1950; 2114; 2457; 2743; 3060; 3483; 3809; 4201; 4452; 4996; 5277; 5309; 5441; 5476; 5526; 5558; 5911; 6190; 6356; 6374
BscAI	GCATCNNNN!	11	847; 2559; 2644; 2680; 3084; 3286; 4049; 4121; 4769; 4833; 5108
BscAI	!NNNNNNGATGC	9	360; 1004; 1172; 1773; 2097; 4432; 4687; 4903; 6295
BseI	ACTGGN!	7	1214; 1301; 2664; 2916; 4415; 4616; 5862
BseI	C!CAGT	6	295; 1857; 3500; 4178; 5974; 5987
Bse8I	GATNN!NNATC	2	3133; 4330
Bse21I	CC!TNAGG	3	869; 3951; 5583
Bse118I	R!CCGGY	7	600; 1466; 1570; 3688; 4790; 4971; 5254
BseAI	T!CCGGA	1	1315
BseBI	CC!WGG	20	90; 283; 787; 835; 931; 946; 1075; 1435; 1501; 2211; 2452; 4007; 4062; 4079; 4858; 5437; 5540; 6230; 6243; 6364
BseCI	AT!CGAT	1	4311
BseDI	C!CNNGG	23	360; 611; 698; 833; 834; 929; 1369; 2210; 2450; 4005; 4077; 4200; 4235; 4244; 4293; 4634; 4903; 5308; 5435; 5436; 5538; 5539; 6229
Bse3DI	GCAATGNN!	1	4704
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	1379; 4331; 4788; 4813; 5267
BseGI	!CATCC	8	694; 782; 839; 994; 2254; 2551; 3076; 4157
BseJI	GATNN!NNATC	2	3133; 4330
BseLI	CCNNNNN!NNGG	29	49; 721; 834; 1000; 1066; 1375; 1440; 1473; 1506; 1950; 2114; 2457; 2743; 3060; 3483; 3809; 4201; 4452; 4996; 5277; 5309; 5441; 5476; 5526; 5558; 5911; 6190; 6356; 6374
BseMI	GCAATGNN!	1	4704
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	4	1335; 2666; 2959; 5597
BseMII	!NNNNNNNNCTGAG	8	860; 1399; 1940; 3942; 4244; 5125; 5697; 6106
BseNI	ACTGGN!	7	1214; 1301; 2664; 2916; 4415; 4616; 5862
BseNI	C!CAGT	6	295; 1857; 3500; 4178; 5974; 5987
BsePI	G!CGCGC	3	1517; 1616; 1641
BseRI	GAGGAGNNNNNNNNNN!	7	1459; 1561; 1999; 2143; 2968; 3019; 4289
BseRI	!NNNNNNNNCTCCTC	1	1687
BseSI	GKGCMI!C	8	667; 694; 727; 1304; 2911; 4417; 4510; 6079
BseXI	GCAGCNNNNNNNN!	16	821; 1263; 1391; 1508; 1536; 1774; 1795; 1891; 2415; 3034; 3259; 4544; 4586; 5107; 5560; 6060
BseXI	!NNNNNNNNNNNNGCTGC	13	940; 1436; 1508; 1637; 1679; 1863; 2829; 3753; 4418; 4602; 4695; 5761; 5967
BseX3I	C!GGCCG	2	1557; 4377
BseYI	C!CCAGC	4	2258; 4014; 4086; 6085

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BseYI	G!CTGGG	4	1031; 1662; 2747; 4975
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNCTGCAC	1	1781
Bsh1236I	CG!CG	30	60; 1371; 1385; 1419; 1428; 1454; 1519; 1544; 1556; 1609; 1611; 1616; 1618; 1637; 1643; 2019; 3359; 3395; 3771; 3791; 3815; 3846; 4537; 4838; 5276; 5360; 5423; 5492; 5765; 6346
Bsh1285I	CGRY!CG	4	752; 1560; 4380; 6055
BshFI	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1394; 1559; 1574; 1603; 1633; 2822; 3437; 3579; 4234; 4240; 4249; 4292; 4379; 4553; 4944; 4971; 5480; 5537; 5570; 5915; 6349; 6367; 6378
BshNI	G!GYRCC	7	465; 664; 724; 1732; 3624; 4470; 4505
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	4311
BsiEI	CGRY!CG	4	752; 1560; 4380; 6055
BsiHKAI	GWGCW!C	7	694; 1335; 1460; 1568; 4584; 4774; 6079
BsiHKCI	C!YCGRG	2	1328; 2546
BsiSI	C!CGG	22	601; 1184; 1316; 1467; 1571; 3113; 3689; 4376; 4453; 4475; 4503; 4634; 4724; 4791; 4972; 5247; 5255; 5347; 5821; 6011; 6037; 6184
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	29	49; 721; 834; 1000; 1066; 1375; 1440; 1473; 1506; 1950; 2114; 2457; 2743; 3060; 3483; 3809; 4201; 4452; 4996; 5277; 5309; 5441; 5476; 5526; 5558; 5911; 6190; 6356; 6374
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4622; 5154; 5263
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3987; 4059; 4123; 5418
BsmI	GAATGCN!	2	2169; 3222
BsmI	G!CATTC	1	3315
BsmAI	GTCTCN!	2	434; 2519
BsmAI	!NNNNNGAGAC	10	1042; 1231; 1498; 1585; 1990; 2765; 3895; 4313; 5332; 5460
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	1498
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4622; 5154; 5263
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3987; 4059; 4123; 5418
BsnI	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1394; 1559; 1574; 1603; 1633; 2822; 3437; 3579; 4234; 4240; 4249; 4292; 4379; 4553; 4944; 4971; 5480; 5537; 5570; 5915; 6349; 6367; 6378
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	5	1042; 1231; 1585; 1990; 5460
BsoBI	C!YCGRG	2	1328; 2546
Bsp13I	T!CCGGA	1	1315
Bsp19I	C!CATGG	4	360; 611; 4200; 4903
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	3	289; 2901; 5274
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	5695; 5873
Bsp24I	CCANNNNNNGTCTNNNNNNNNNN!	2	5727; 5905
Bsp24I	!NNNNNNNGACNNNNNTGG	3	257; 2869; 5242
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1774; 5153
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	32	585; 974; 1124; 1150; 1324; 1655; 1722; 1739; 1836; 1845; 2394; 2730; 2756; 3106; 3115; 3128; 4308; 4312; 4331; 4642; 4720; 4801; 4810; 4888; 5264; 5280; 5639; 5651; 5729; 5737; 5748; 5823
Bsp1286I	GDGCH!C	17	667; 694; 727; 1304; 1335; 1414; 1460; 1568; 2911; 3662; 4417; 4510; 4584; 4774; 4836; 5546; 6079
Bsp1407I	T!GTACA	2	653; 1478
Bsp1720I	GC!TNAGC	1	1408
BspACI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1366; 1369; 1383; 1405; 1635; 2232; 2648; 2706; 3786; 3789; 3803; 3893; 4141; 4153; 4162; 4174; 4184; 4195; 4241; 4380; 4443; 4945; 4990; 5056; 5082; 5207; 5210; 5358; 5490; 5797; 5941; 6437
BspACI	G!CGG	35	370; 403; 528; 748; 758; 1070; 1112; 1371; 1391; 1428; 1474; 1556; 1678; 2383; 2589; 3731; 3758; 3846; 3956; 4537; 4601; 4702; 4705; 4985; 5040; 5138; 5276; 5423; 5563; 5806; 6051; 6172; 6191; 6318; 6346
BspCNI	CTCAGNNNNNNNN!	4	1334; 2665; 2958; 5596

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspCNI	!NNNNNNNCTGAG	8	861; 1400; 1941; 3943; 4245; 5126; 5698; 6107
BspDI	AT!CGAT	1	4311
BspD6I	GACTCNNNN!	5	418; 1327; 3544; 5150; 6027
BspD6I	!NNNNNNGAGTC	4	883; 2274; 3507; 3939
BspEI	T!CCGGA	1	1315
BspFNI	CG!CG	30	60; 1371; 1385; 1419; 1428; 1454; 1519; 1544; 1556; 1609; 1611; 1616; 1618; 1637; 1643; 2019; 3359; 3395; 3771; 3791; 3815; 3846; 4537; 4838; 5276; 5360; 5423; 5492; 5765; 6346
BspHI	T!CATGA	3	2082; 3897; 5669
BspLI	GGN!NCC	22	467; 666; 726; 1117; 1395; 1432; 1734; 3066; 3108; 3626; 3647; 3659; 3850; 4011; 4083; 4472; 4507; 5355; 5434; 5479; 6322; 6361
BspMI	ACCTGCNNNN!	2	4739; 5189
BspMI	!NNNNNNNNGCAGGT	2	1521; 4358
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	13	1844; 1853; 2402; 2738; 3114; 3123; 4339; 4650; 4896; 5288; 5647; 5745; 5831
BspPI	!NNNNNGATCC	7	580; 1145; 3101; 4715; 5259; 5646; 5743
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	4815; 5025
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1774; 5153
BspT107I	G!GYRCC	7	465; 664; 724; 1732; 3624; 4470; 4505
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	5	1042; 1231; 1585; 1990; 5460
BsrI	ACTGGN!	7	1214; 1301; 2664; 2916; 4415; 4616; 5862
BsrI	C!CAGT	6	295; 1857; 3500; 4178; 5974; 5987
BsrBI	CCG!CTC	2	3895; 5084
BsrBI	GAG!CGG	2	3731; 5138
BsrDI	GCAATGNN!	1	4704
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	600; 1466; 1570; 3688; 4790; 4971; 5254
BsrGI	T!GTACA	2	653; 1478
BsrSI	ACTGGN!	7	1214; 1301; 2664; 2916; 4415; 4616; 5862
BsrSI	C!CAGT	6	295; 1857; 3500; 4178; 5974; 5987
BssAI	R!CCGGY	7	600; 1466; 1570; 3688; 4790; 4971; 5254
BssECI	C!CNNGG	23	360; 611; 698; 833; 834; 929; 1369; 2210; 2450; 4005; 4077; 4200; 4235; 4244; 4293; 4634; 4903; 5308; 5435; 5436; 5538; 5539; 6229
BssHII	G!CGCGC	3	1517; 1616; 1641
BssKI	!CCNGG	25	88; 281; 785; 833; 929; 944; 1073; 1182; 1433; 1499; 2209; 2450; 4005; 4060; 4077; 4473; 4633; 4856; 5246; 5435; 5538; 6010; 6228; 6241; 6362
BssMI	!GATC	32	585; 974; 1124; 1150; 1324; 1655; 1722; 1739; 1836; 1845; 2394; 2730; 2756; 3106; 3115; 3128; 4308; 4312; 4331; 4642; 4720; 4801; 4810; 4888; 5264; 5280; 5639; 5651; 5729; 5737; 5748; 5823
BssNI	GR!CGYC	10	122; 175; 258; 444; 1187; 1733; 2043; 4471; 5173; 5252
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1255; 5189; 6216
BssSI	C!TCGTG	3	1105; 2901; 5063
BssTII	C!CWWGG	6	360; 611; 4200; 4293; 4903; 5308
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	7	1976; 2492; 2587; 2996; 3938; 4815; 5025
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	10	122; 175; 258; 444; 1187; 1733; 2043; 4471; 5173; 5252
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	4	1789; 4038; 4110; 5572
BstAUI	T!GTACA	2	653; 1478
BstBI	TT!CGAA	2	1774; 5153
Bst2BI	C!ACGAG	3	1255; 5189; 6216
Bst2BI	C!TCGTG	3	1105; 2901; 5063
BstBAI	YAC!GTR	4	340; 2572; 3587; 4775
Bst4CI	ACN!GT	21	76; 198; 269; 543; 581; 669; 1892; 2174; 2199; 2206; 2541; 2829; 2976; 3562; 4851; 4967; 5075; 5398; 5889; 6359; 6430

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstC8I	GCN!NGC	45	86; 279; 593; 622; 712; 916; 1389; 1456; 1472; 1519; 1601; 1618; 1635; 1639; 1643; 2069; 2075; 2327; 2356; 2820; 2865; 3690; 3733; 3747; 4020; 4039; 4092; 4111; 4365; 4551; 4770; 4836; 4842; 4870; 4874; 4919; 4973; 5256; 5443; 5490; 5546; 5568; 5779; 6339; 6376
BstDEI	C!TNAG	16	869; 1166; 1321; 1408; 1709; 1872; 1949; 2484; 2652; 2945; 3951; 4253; 5134; 5583; 5706; 6115
BstDSI	C!CRYGG	5	360; 611; 1369; 4200; 4903
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	1	1948
BstF5I	GGATGNN!	5	1379; 4331; 4788; 4813; 5267
BstF5I	!CATCC	8	694; 782; 839; 994; 2254; 2551; 3076; 4157
BstFNI	CG!CG	30	60; 1371; 1385; 1419; 1428; 1454; 1519; 1544; 1556; 1609; 1611; 1616; 1618; 1637; 1643; 2019; 3359; 3395; 3771; 3791; 3815; 3846; 4537; 4838; 5276; 5360; 5423; 5492; 5765; 6346
BstH2I	RGCGC!Y	7	598; 1585; 1736; 3738; 3746; 4474; 6149
BstHHI	GCG!C	38	597; 1387; 1421; 1454; 1496; 1519; 1521; 1544; 1556; 1584; 1611; 1618; 1620; 1643; 1645; 1735; 2021; 2073; 3737; 3745; 3771; 3793; 3802; 3815; 3846; 4465; 4473; 4537; 4574; 4840; 5100; 5276; 5362; 5765; 5874; 6048; 6148; 6215
BstKTI	GAT!C	32	588; 977; 1127; 1153; 1327; 1658; 1725; 1742; 1839; 1848; 2397; 2733; 2759; 3109; 3118; 3131; 4311; 4315; 4334; 4645; 4723; 4804; 4813; 4891; 5267; 5283; 5642; 5654; 5732; 5740; 5751; 5826
BstMAI	GTCTCN!	2	434; 2519
BstMAI	!NNNNNGAGAC	10	1042; 1231; 1498; 1585; 1990; 2765; 3895; 4313; 5332; 5460
BstMBI	!GATC	32	585; 974; 1124; 1150; 1324; 1655; 1722; 1739; 1836; 1845; 2394; 2730; 2756; 3106; 3115; 3128; 4308; 4312; 4331; 4642; 4720; 4801; 4810; 4888; 5264; 5280; 5639; 5651; 5729; 5737; 5748; 5823
BstMCI	CGRY!CG	4	752; 1560; 4380; 6055
BstMWI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 648; 1079; 1093; 1345; 1388; 1418; 1455; 1527; 1615; 1647; 1659; 1789; 1873; 2016; 2409; 2848; 3698; 3728; 3755; 3797; 4038; 4110; 4161; 4240; 4462; 4546; 4569; 4708; 4831; 4914; 5181; 5368; 5572; 5771; 6343
BstNI	CC!WGG	20	90; 283; 787; 835; 931; 946; 1075; 1435; 1501; 2211; 2452; 4007; 4062; 4079; 4858; 5437; 5540; 6230; 6243; 6364
BstNSI	RCATG!Y	8	642; 1977; 2294; 2358; 4041; 4113; 4876; 6393
BstOI	CC!WGG	20	90; 283; 787; 835; 931; 946; 1075; 1435; 1501; 2211; 2452; 4007; 4062; 4079; 4858; 5437; 5540; 6230; 6243; 6364
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1243
BstSCI	!CCNGG	25	88; 281; 785; 833; 929; 944; 1073; 1182; 1433; 1499; 2209; 2450; 4005; 4060; 4077; 4473; 4633; 4856; 5246; 5435; 5538; 6010; 6228; 6241; 6362
BstSFI	C!TRYAG	8	1522; 1528; 1651; 1877; 2272; 3806; 5933; 6124
BstSLI	GKGC!C	8	667; 694; 727; 1304; 2911; 4417; 4510; 6079
BstSNI	TAC!GTA	2	340; 2572
BstUI	CG!CG	30	60; 1371; 1385; 1419; 1428; 1454; 1519; 1544; 1556; 1609; 1611; 1616; 1618; 1637; 1643; 2019; 3359; 3395; 3771; 3791; 3815; 3846; 4537; 4838; 5276; 5360; 5423; 5492; 5765; 6346
Bst2UI	CC!WGG	20	90; 283; 787; 835; 931; 946; 1075; 1435; 1501; 2211; 2452; 4007; 4062; 4079; 4858; 5437; 5540; 6230; 6243; 6364
BstV1I	GCAGC!NNNNNNN!	16	821; 1263; 1391; 1508; 1536; 1774; 1795; 1891; 2415; 3034; 3259; 4544; 4586; 5107; 5560; 6060
BstV1I	!NNNNNNNNNNNGCTGC	13	940; 1436; 1508; 1637; 1679; 1863; 2829; 3753; 4418; 4602; 4695; 5761; 5967
BstV2I	GAAGACNN!	3	911; 1144; 1212
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 1150; 1324; 1836; 3106; 3115; 4642; 4888; 5280; 5639; 5651; 5737; 5748
BstYI	R!GATCY	13	585; 1150; 1324; 1836; 3106; 3115; 4642; 4888; 5280; 5639; 5651; 5737; 5748
BstZI	C!GGCCG	2	1557; 4377
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	4	2553; 3900; 4690; 6191
BsuI	!NNNNNGGATAC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bsu15I	AT!CGAT	1	4311
Bsu36I	CC!TNAGG	3	869; 3951; 5583
BsuRI	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1394; 1559; 1574; 1603; 1633; 2822; 3437; 3579; 4234; 4240; 4249; 4292; 4379; 4553; 4944; 4971; 5480; 5537; 5570; 5915; 6349; 6367; 6378
BsuTUI	AT!CGAT	1	4311
BtgI	C!CRYGG	5	360; 611; 1369; 4200; 4903
BtgZI	GCGATGNNNNNNNNNN!	2	3588; 4923
BtgZI	!NNNNNNNNNNNNNNNNCATCGC	3	334; 4742; 5086
BthCI	GCNG!C	54	761; 812; 956; 1073; 1254; 1368; 1371; 1382; 1385; 1394; 1407; 1431; 1452; 1499; 1527; 1530; 1559; 1653; 1695; 1765; 1786; 1882; 2234; 2406; 2845; 3025; 3250; 3769; 3791; 3805; 4243; 4382; 4434; 4445; 4535; 4540; 4577; 4618; 4705; 4708; 4711; 4947; 5043; 5084; 5098; 5212; 5551; 5566; 5777; 5983; 5986; 6051; 6194; 6349
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	3310
BtsCI	GGATGNN!	5	1379; 4331; 4788; 4813; 5267
BtsCI	!CATCC	8	694; 782; 839; 994; 2254; 2551; 3076; 4157
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4739; 5189
BveI	!NNNNNNNNNGCAGGT	2	1521; 4358
Cac8I	GCN!NGC	45	86; 279; 593; 622; 712; 916; 1389; 1456; 1472; 1519; 1601; 1618; 1635; 1639; 1643; 2069; 2075; 2327; 2356; 2820; 2865; 3690; 3733; 3747; 4020; 4039; 4092; 4111; 4365; 4551; 4770; 4836; 4842; 4870; 4874; 4919; 4973; 5256; 5443; 5490; 5546; 5568; 5779; 6339; 6376
CaiI	CAGNNN!CTG	4	1277; 2659; 5572; 5980
CciI	T!CATGA	3	2082; 3897; 5669
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 1485; 2676; 4760; 4765; 4963; 5104
CdiI	C!GATG	3	1343; 3574; 4909
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	6343
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 4132; 4174
CelII	GC!TNAGC	1	1408
CfoI	GCG!C	38	597; 1387; 1421; 1454; 1496; 1519; 1521; 1544; 1556; 1584; 1611; 1618; 1620; 1643; 1645; 1735; 2021; 2073; 3737; 3745; 3771; 3793; 3802; 3815; 3846; 4465; 4473; 4537; 4574; 4840; 5100; 5276; 5362; 5765; 5874; 6048; 6148; 6215
CfrI	Y!GGCCR	7	1268; 1557; 1601; 4377; 4551; 4942; 4969
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	7	600; 1466; 1570; 3688; 4790; 4971; 5254
Cfr13I	G!GNCC	14	83; 276; 760; 1003; 1095; 1116; 1393; 1632; 3578; 4987; 5432; 5478; 5536; 5569
Cfr42I	CCGC!GG	1	1372
Chai	GATC!	32	589; 978; 1128; 1154; 1328; 1659; 1726; 1743; 1840; 1849; 2398; 2734; 2760; 3110; 3119; 3132; 4312; 4316; 4335; 4646; 4724; 4805; 4814; 4892; 5268; 5284; 5643; 5655; 5733; 5741; 5752; 5827
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	6	706; 2920; 4288; 5728; 5828; 5906
CjeI	!NNNNNNNNNACNNNNNNNTGG	9	64; 257; 1785; 2869; 3955; 4050; 5242; 5792; 6347
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	9	98; 291; 1819; 2903; 3989; 4084; 5276; 5826; 6381
CjeI	!NNNNNNNNCCANNNNNNGT	6	672; 2886; 4254; 5694; 5794; 5872
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	3	2897; 5728; 5906
CjePI	!NNNNNNNNGANNNNNNNNTGG	6	257; 1076; 2279; 2869; 5242; 5841
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	6	290; 1109; 2312; 2902; 5275; 5874
CjePI	!NNNNNNNCCANNNNNNNNTC	3	2864; 5695; 5873
Clai	AT!CGAT	1	4311
CpoI	CG!GWCCG	1	4987
CseI	GACGCNNNN!	4	526; 1615; 5181; 5260
CseI	!NNNNNNNNNGCGTC	5	1176; 2032; 3804; 5699; 6277
CsiI	A!CCWGGT	1	4060
Cspi	CG!GWCCG	1	4987

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Csp6I	G!TAC	15	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1479; 2061; 2569; 2573; 2972; 4776
Csp45I	TT!CGAA	2	1774; 5153
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	6	656; 1247; 1466; 2150; 3751; 5360
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	1	1850
CviAII	C!ATG	32	301; 361; 612; 639; 645; 657; 735; 801; 881; 1092; 1974; 2011; 2083; 2101; 2149; 2235; 2291; 2355; 2457; 3898; 4038; 4110; 4201; 4342; 4687; 4873; 4904; 4930; 5286; 5670; 6390; 6441
CviJI	RG!CY	138	42; 84; 93; 277; 566; 607; 624; 651; 714; 761; 790; 797; 875; 941; 953; 1004; 1031; 1039; 1073; 1087; 1096; 1104; 1118; 1228; 1264; 1270; 1333; 1339; 1382; 1394; 1412; 1431; 1449; 1458; 1470; 1499; 1527; 1559; 1566; 1574; 1599; 1603; 1633; 1650; 1662; 1692; 1746; 1786; 1867; 1876; 1882; 1943; 2067; 2077; 2118; 2133; 2231; 2249; 2262; 2412; 2430; 2449; 2511; 2522; 2656; 2747; 2822; 2842; 2863; 2867; 3025; 3089; 3140; 3250; 3417; 3437; 3579; 3660; 3674; 3688; 3969; 4010; 4082; 4205; 4234; 4240; 4249; 4257; 4280; 4292; 4298; 4379; 4396; 4404; 4431; 4456; 4540; 4549; 4553; 4577; 4615; 4691; 4708; 4727; 4790; 4834; 4844; 4861; 4944; 4971; 4975; 5012; 5035; 5051; 5231; 5258; 5319; 5441; 5480; 5537; 5544; 5551; 5570; 5581; 5832; 5861; 5904; 5915; 5980; 6059; 6084; 6089; 6135; 6225; 6323; 6349; 6367; 6378
CviKI-1	RG!CY	138	42; 84; 93; 277; 566; 607; 624; 651; 714; 761; 790; 797; 875; 941; 953; 1004; 1031; 1039; 1073; 1087; 1096; 1104; 1118; 1228; 1264; 1270; 1333; 1339; 1382; 1394; 1412; 1431; 1449; 1458; 1470; 1499; 1527; 1559; 1566; 1574; 1599; 1603; 1633; 1650; 1662; 1692; 1746; 1786; 1867; 1876; 1882; 1943; 2067; 2077; 2118; 2133; 2231; 2249; 2262; 2412; 2430; 2449; 2511; 2522; 2656; 2747; 2822; 2842; 2863; 2867; 3025; 3089; 3140; 3250; 3417; 3437; 3579; 3660; 3674; 3688; 3969; 4010; 4082; 4205; 4234; 4240; 4249; 4257; 4280; 4292; 4298; 4379; 4396; 4404; 4431; 4456; 4540; 4549; 4553; 4577; 4615; 4691; 4708; 4727; 4790; 4834; 4844; 4861; 4944; 4971; 4975; 5012; 5035; 5051; 5231; 5258; 5319; 5441; 5480; 5537; 5544; 5551; 5570; 5581; 5832; 5861; 5904; 5915; 5980; 6059; 6084; 6089; 6135; 6225; 6323; 6349; 6367; 6378
CviQI	G!TAC	15	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1479; 2061; 2569; 2573; 2972; 4776
DdeI	C!TNAG	16	869; 1166; 1321; 1408; 1709; 1872; 1949; 2484; 2652; 2945; 3951; 4253; 5134; 5583; 5706; 6115
DinI	GGC!GCC	2	1734; 4472
DpnI	GA!TC	32	587; 976; 1126; 1152; 1326; 1657; 1724; 1741; 1838; 1847; 2396; 2732; 2758; 3108; 3117; 3130; 4310; 4314; 4333; 4644; 4722; 4803; 4812; 4890; 5266; 5282; 5641; 5653; 5731; 5739; 5750; 5825
DpnII	!GATC	32	585; 974; 1124; 1150; 1324; 1655; 1722; 1739; 1836; 1845; 2394; 2730; 2756; 3106; 3115; 3128; 4308; 4312; 4331; 4642; 4720; 4801; 4810; 4888; 5264; 5280; 5639; 5651; 5729; 5737; 5748; 5823
DraI	TTT!AAA	4	2982; 3173; 5615; 5634
DraII	RG!GNCCY	1	5569
DraIII	CACNNN!GTG	3	1260; 1804; 3587
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	266; 5951
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	4	2779; 3542; 4498; 6287
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	2	476; 2542
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	2779; 3542; 4498; 6287
EaeI	Y!GGCCR	7	1268; 1557; 1601; 4377; 4551; 4942; 4969
EagI	C!GGCCG	2	1557; 4377
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	7	1976; 2492; 2587; 2996; 3938; 4815; 5025

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	7	1976; 2492; 2587; 2996; 3938; 4815; 5025
EciI	GGCGANNNNNNNNNN!	6	1693; 2398; 3971; 5000; 6187; 6333
EciI	!NNNNNNNNNTCCGCC	5	496; 2637; 4142; 4163; 4184
Ecl136II	GAG!CTC	3	1333; 1458; 1566
EclXI	C!GGCCG	2	1557; 4377
Eco24I	GRGCY!C	7	1335; 1414; 1460; 1568; 3662; 4836; 5546
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	5	1042; 1231; 1585; 1990; 5460
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	4987; 5432
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1557; 4377
Eco57I	CTGAAGNNNNNNNNNNNN!	6	1120; 1861; 2833; 3017; 4617; 5049
Eco57I	!NNNNNNNNNNNNCTTCAG	1	5847
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	869; 3951; 5583
Eco88I	C!YCGRG	2	1328; 2546
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	2	340; 2572
Eco130I	C!CWWGG	6	360; 611; 4200; 4293; 4903; 5308
Eco147I	AGG!CCT	2	1039; 4292
EcoHI	!CCSGG	5	1182; 4473; 4633; 5246; 6010
EcoICRI	GAG!CTC	3	1333; 1458; 1566
Eco57MI	CTGRAGNNNNNNNNNNNN!	10	1120; 1522; 1861; 2155; 2833; 3017; 3047; 4617; 5049; 5311
Eco57MI	!NNNNNNNNNNNNCTYCAG	4	928; 1417; 5254; 5847
EcoNI	CCTNN!NNNAGG	1	1948
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	5569
EcoRI	G!AATC	0	
EcoRII	!CCWGG	20	88; 281; 785; 833; 929; 944; 1073; 1433; 1499; 2209; 2450; 4005; 4060; 4077; 4856; 5435; 5538; 6228; 6241; 6362
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 611; 4200; 4293; 4903; 5308
EcoT22I	ATGCA!T	3	4043; 4115; 6446
EcoT38I	GRGCY!C	7	1335; 1414; 1460; 1568; 3662; 4836; 5546
Eco53kl	GAG!CTC	3	1333; 1458; 1566
EgeI	GGC!GCC	2	1734; 4472
EheI	GGC!GCC	2	1734; 4472
ErhI	C!CWWGG	6	360; 611; 4200; 4293; 4903; 5308
EsaBC3I	TC!GA	22	753; 780; 1248; 1330; 1343; 1485; 1623; 1659; 1750; 1775; 2676; 3621; 4312; 4585; 4741; 4765; 4801; 4963; 5154; 5199; 5454; 6292
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNGAGACC	1	1498
FaeI	CATG!	32	304; 364; 615; 642; 648; 660; 738; 804; 884; 1095; 1977; 2014; 2086; 2104; 2152; 2238; 2294; 2358; 2460; 3901; 4041; 4113; 4204; 4345; 4690; 4876; 4907; 4933; 5289; 5673; 6393; 6444
FaiI	YA!TR	83	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 640; 646; 658; 736; 802; 882; 900; 1093; 1146; 1196; 1706; 1757; 1975; 1979; 2012; 2057; 2084; 2102; 2123; 2150; 2236; 2292; 2356; 2423; 2458; 2789; 2795; 2807; 2932; 2992; 3100; 3133; 3143; 3209; 3254; 3459; 3887; 3899; 4030; 4039; 4102; 4111; 4135; 4202; 4226; 4343; 4407; 4688; 4713; 4874; 4905; 4931; 5003; 5219; 5287; 5365; 5417; 5578; 5595; 5597; 5599; 5671; 5949; 6138; 6254; 6327; 6391; 6442
FalI	AAGNNNNCTTNNNNNNNNNN!	3	879; 2543; 4811
FalI	!NNNNNNNNAAGNNNNCTT	3	847; 2511; 4779
FaqI	GGGACNNNNNNNN!	6	175; 326; 494; 4622; 5154; 5263
FaqI	!NNNNNNNNNNNGTCCC	4	3987; 4059; 4123; 5418
FatI	!CATG	32	300; 360; 611; 638; 644; 656; 734; 800; 880; 1091; 1973; 2010; 2082; 2100; 2148; 2234; 2290; 2354; 2456; 3897; 4037; 4109; 4200; 4341; 4686; 4872; 4903; 4929; 5285; 5669; 6389; 6440
FauI	CCCGCNNNN!	11	93; 119; 286; 1068; 1170; 1642; 3793; 4148; 4169; 5365; 5497

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FauI	!NNNNNNGCGGG	6	1105; 3724; 4594; 5131; 5269; 5416
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	2	2756; 3128
FblI	GT!MKAC	1	1190
FmuI	GGNC!C	14	86; 279; 763; 1006; 1098; 1119; 1396; 1635; 3581; 4990; 5435; 5481; 5539; 5572
Fnu4HI	GC!NGC	54	759; 810; 954; 1071; 1252; 1366; 1369; 1380; 1383; 1392; 1405; 1429; 1450; 1497; 1525; 1528; 1557; 1651; 1693; 1763; 1784; 1880; 2232; 2404; 2843; 3023; 3248; 3767; 3789; 3803; 4241; 4380; 4432; 4443; 4533; 4538; 4575; 4616; 4703; 4706; 4709; 4945; 5041; 5082; 5096; 5210; 5549; 5564; 5775; 5981; 5984; 6049; 6192; 6347
FokI	GGATGNNNNNNNN!	5	1386; 4338; 4795; 4820; 5274
FokI	!NNNNNNNNNNNNNNCATCC	8	681; 769; 826; 981; 2241; 2538; 3063; 4144
FriOI	GRGCY!C	7	1335; 1414; 1460; 1568; 3662; 4836; 5546
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	2	1495; 4573
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	11	592; 1289; 2285; 2579; 3119; 3320; 3738; 4294; 5309; 5643; 5896
FspEI	CCNNNNNNNNNNNN!	194	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 681; 711; 728; 742; 775; 789; 807; 831; 846; 876; 909; 936; 951; 970; 1006; 1053; 1072; 1087; 1101; 1132; 1155; 1175; 1196; 1242; 1284; 1300; 1329; 1371; 1396; 1410; 1426; 1447; 1480; 1513; 1573; 1588; 1608; 1647; 1702; 1749; 1869; 1884; 1957; 2013; 2091; 2121; 2161; 2181; 2223; 2245; 2263; 2463; 2531; 2545; 2559; 2661; 2719; 2750; 2811; 2836; 2877; 2893; 2908; 3003; 3067; 3081; 3123; 3154; 3193; 3207; 3348; 3443; 3467; 3490; 3513; 3531; 3553; 3574; 3593; 3612; 3641; 3662; 3676; 3702; 3790; 3816; 3865; 3906; 3924; 3963; 3979; 4017; 4074; 4089; 4146; 4166; 4180; 4197; 4211; 4248; 4263; 4306; 4389; 4456; 4487; 4507; 4522; 4567; 4581; 4647; 4661; 4680; 4696; 4737; 4757; 4804; 4854; 4870; 4890; 4915; 4935; 4958; 4985; 5003; 5029; 5069; 5095; 5119; 5175; 5189; 5217; 5260; 5281; 5316; 5360; 5448; 5472; 5494; 5514; 5530; 5551; 5565; 5584; 5668; 5688; 5716; 5731; 5765; 5807; 5834; 5849; 5894; 5918; 5932; 5954; 5980; 6000; 6024; 6050; 6098; 6117; 6136; 6162; 6197; 6242; 6272; 6286; 6337; 6351; 6376; 6392; 6413; 6442
FspEI	!NNNNNNNNNNNNNNNGG	176	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 616; 643; 685; 706; 730; 772; 791; 820; 856; 893; 916; 935; 965; 986; 1013; 1052; 1078; 1097; 1169; 1195; 1243; 1282; 1301; 1330; 1356; 1376; 1413; 1452; 1474; 1492; 1516; 1534; 1556; 1585; 1615; 1648; 1699; 1787; 1807; 1828; 1846; 1909; 1936; 1969; 1989; 2008; 2053; 2100; 2119; 2196; 2281; 2302; 2365; 2437; 2460; 2487; 2567; 2590; 2645; 2678; 2713; 2733; 2753; 2800; 2823; 2871; 2889; 2911; 2932; 2989; 3011; 3046; 3088; 3142; 3242; 3311; 3419; 3468; 3490; 3518; 3554; 3599; 3628; 3664; 3683; 3711; 3731; 3794; 3817; 3925; 3957; 3975; 4004; 4047; 4076; 4187; 4216; 4259; 4280; 4308; 4341; 4361; 4386; 4413; 4438; 4460; 4488; 4514; 4535; 4586; 4607; 4625; 4673; 4709; 4765; 4790; 4814; 4843; 4866; 4890; 4916; 4938; 4957; 4982; 5022; 5058; 5123; 5208; 5232; 5261; 5295; 5316; 5336; 5381; 5408; 5427; 5460; 5512; 5543; 5570; 5622; 5720; 5791; 5836; 5897; 5962; 5996; 6022; 6040; 6076; 6146; 6169; 6191; 6215; 6248; 6296; 6331; 6349; 6406
Fsp4HI	GC!NGC	54	759; 810; 954; 1071; 1252; 1366; 1369; 1380; 1383; 1392; 1405; 1429; 1450; 1497; 1525; 1528; 1557; 1651; 1693; 1763; 1784; 1880; 2232; 2404; 2843; 3023; 3248; 3767; 3789; 3803; 4241; 4380; 4432; 4443; 4533; 4538; 4575; 4616; 4703; 4706; 4709; 4945; 5041; 5082; 5096; 5210; 5549; 5564; 5775; 5981; 5984; 6049; 6192; 6347
GdiI	C!GGCCR	2	1557; 4377
GdiI	Y!GGCCG	5	1557; 1601; 4377; 4942; 4969
GlaI	GC!GC	38	596; 1386; 1420; 1453; 1495; 1518; 1520; 1543; 1555; 1583; 1610; 1617; 1619; 1642; 1644; 1734; 2020; 2072; 3736; 3744; 3770; 3792; 3801; 3814; 3845; 4464; 4472; 4536; 4573; 4839; 5099; 5275; 5361; 5764; 5873; 6047; 6147; 6214

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GluI	GC!NGC	54	759; 810; 954; 1071; 1252; 1366; 1369; 1380; 1383; 1392; 1405; 1429; 1450; 1497; 1525; 1528; 1557; 1651; 1693; 1763; 1784; 1880; 2232; 2404; 2843; 3023; 3248; 3767; 3789; 3803; 4241; 4380; 4432; 4443; 4533; 4538; 4575; 4616; 4703; 4706; 4709; 4945; 5041; 5082; 5096; 5210; 5549; 5564; 5775; 5981; 5984; 6049; 6192; 6347
GsaI	CCCAG!C	4	2262; 4018; 4090; 6089
GsaI	GCTGG!G	4	1035; 1666; 2751; 4979
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	4	1522; 2155; 3047; 5311
GsuI	!NNNNNNNNNNNNNNCTCCAG	3	928; 1417; 5254
HaeI	WGG!CCW	8	1039; 1270; 2822; 4292; 4553; 5915; 6367; 6378
HaeII	RGCGC!Y	7	598; 1585; 1736; 3738; 3746; 4474; 6149
HaeIII	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1394; 1559; 1574; 1603; 1633; 2822; 3437; 3579; 4234; 4240; 4249; 4292; 4379; 4553; 4944; 4971; 5480; 5537; 5570; 5915; 6349; 6367; 6378
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	3146; 4667
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	3112; 4633
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	3145; 4666
HaeIV	!NNNNNNNGAYNNNNNRTC	2	3114; 4635
HapII	C!CGG	22	601; 1184; 1316; 1467; 1571; 3113; 3689; 4376; 4453; 4475; 4503; 4634; 4724; 4791; 4972; 5247; 5255; 5347; 5821; 6011; 6037; 6184
HgaI	GACGCNNNNN!	4	526; 1615; 5181; 5260
HgaI	!NNNNNNNNNNNGCGTC	5	1176; 2032; 3804; 5699; 6277
HhaI	GCG!C	38	597; 1387; 1421; 1454; 1496; 1519; 1521; 1544; 1556; 1584; 1611; 1618; 1620; 1643; 1645; 1735; 2021; 2073; 3737; 3745; 3771; 3793; 3802; 3815; 3846; 4465; 4473; 4537; 4574; 4840; 5100; 5276; 5362; 5765; 5874; 6048; 6148; 6215
HinI	GR!CGYC	10	122; 175; 258; 444; 1187; 1733; 2043; 4471; 5173; 5252
HinIII	CATG!	32	304; 364; 615; 642; 648; 660; 738; 804; 884; 1095; 1977; 2014; 2086; 2104; 2152; 2238; 2294; 2358; 2460; 3901; 4041; 4113; 4204; 4345; 4690; 4876; 4907; 4933; 5289; 5673; 6393; 6444
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1636; 3145; 4666
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	3113; 4634; 4664
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	3145; 4666; 4696
Hin4I	!NNNNNNNNNGAYNNNNNVTC	3	1604; 3113; 4634
Hin6I	G!CGC	38	595; 1385; 1419; 1452; 1494; 1517; 1519; 1542; 1554; 1582; 1609; 1616; 1618; 1641; 1643; 1733; 2019; 2071; 3735; 3743; 3769; 3791; 3800; 3813; 3844; 4463; 4471; 4535; 4572; 4838; 5098; 5274; 5360; 5763; 5872; 6046; 6146; 6213
HinPII	G!CGC	38	595; 1385; 1419; 1452; 1494; 1517; 1519; 1542; 1554; 1582; 1609; 1616; 1618; 1641; 1643; 1733; 2019; 2071; 3735; 3743; 3769; 3791; 3800; 3813; 3844; 4463; 4471; 4535; 4572; 4838; 5098; 5274; 5360; 5763; 5872; 6046; 6146; 6213
HincII	GTY!RAC	2	2202; 3234
HindII	GTY!RAC	2	2202; 3234
HindIII	A!AGCTT	2	1337; 1744
HinfI	G!ANTC	21	410; 740; 890; 1217; 1319; 1717; 1929; 2035; 2281; 2304; 2611; 3514; 3536; 3946; 4956; 5090; 5142; 5200; 5237; 6019; 6415
HpaI	GTT!AAC	1	3234
HpaII	C!CGG	22	601; 1184; 1316; 1467; 1571; 3113; 3689; 4376; 4453; 4475; 4503; 4634; 4724; 4791; 4972; 5247; 5255; 5347; 5821; 6011; 6037; 6184
HphI	GGTGANNNNNNNN!	7	376; 627; 996; 1545; 1816; 5542; 5658
HphI	!NNNNNNNTCACC	4	885; 1560; 3588; 4649
Hpy8I	GTN!NAC	16	201; 539; 577; 672; 692; 987; 1191; 1200; 1479; 2202; 2569; 3234; 3518; 3535; 3590; 6077
Hpy99I	CGWCG!	12	1249; 1609; 1616; 1627; 2354; 4561; 4589; 4883; 4898; 5175; 5560; 6293
Hpy166II	GTN!NAC	16	201; 539; 577; 672; 692; 987; 1191; 1200; 1479; 2202; 2569; 3234; 3518; 3535; 3590; 6077
Hpy188I	TCN!GA	22	585; 699; 979; 1324; 1722; 1841; 1850; 1940; 2181; 2616; 2724; 2761; 3645; 4254; 4438; 4782; 5135; 5236; 5715; 5849; 6202; 6280

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hpy188III	TC!NNGA	32	972; 1176; 1316; 1328; 1750; 2083; 2285; 2308; 2434; 2546; 2801; 2886; 3119; 3898; 3950; 4263; 4316; 4489; 4805; 4814; 4897; 4953; 4997; 5087; 5120; 5189; 5670; 5744; 5827; 5925; 6023; 6157
HpyAV	CCTC(N)NNNNN!	8	780; 828; 873; 2089; 2534; 5116; 5223; 5902
HpyAV	!NNNNNGAAGG	16	700; 1072; 1434; 1707; 1836; 1997; 2482; 2808; 2919; 3704; 4599; 5328; 5344; 5527; 5844; 6154
HpyCH4III	ACN!GT	21	76; 198; 269; 543; 581; 669; 1892; 2174; 2199; 2206; 2541; 2829; 2976; 3562; 4851; 4967; 5075; 5398; 5889; 6359; 6430
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 968; 1244; 2571; 3531; 3543; 3586; 3696; 4587; 4774; 5555; 5688
HpyCH4V	TG!CA	31	642; 692; 1014; 1130; 1524; 1530; 1653; 1673; 1783; 1798; 1879; 2403; 2672; 2845; 3094; 3220; 3247; 3315; 4032; 4041; 4104; 4113; 4228; 4304; 4363; 4522; 4697; 4711; 5781; 6077; 6444
HpyF3I	C!TNAG	16	869; 1166; 1321; 1408; 1709; 1872; 1949; 2484; 2652; 2945; 3951; 4253; 5134; 5583; 5706; 6115
HpyF10VI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 648; 1079; 1093; 1345; 1388; 1418; 1455; 1527; 1615; 1647; 1659; 1789; 1873; 2016; 2409; 2848; 3698; 3728; 3755; 3797; 4038; 4110; 4161; 4240; 4462; 4546; 4569; 4708; 4831; 4914; 5181; 5368; 5572; 5771; 6343
Hsp92I	GR!CGYC	10	122; 175; 258; 444; 1187; 1733; 2043; 4471; 5173; 5252
Hsp92II	CATG!	32	304; 364; 615; 642; 648; 660; 738; 804; 884; 1095; 1977; 2014; 2086; 2104; 2152; 2238; 2294; 2358; 2460; 3901; 4041; 4113; 4204; 4345; 4690; 4876; 4907; 4933; 5289; 5673; 6393; 6444
HspAI	G!CGC	38	595; 1385; 1419; 1452; 1494; 1517; 1519; 1542; 1554; 1582; 1609; 1616; 1618; 1641; 1643; 1733; 2019; 2071; 3735; 3743; 3769; 3791; 3800; 3813; 3844; 4463; 4471; 4535; 4572; 4838; 5098; 5274; 5360; 5763; 5872; 6046; 6146; 6213
KasI	G!GCGCC	2	1732; 4470
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1315
KspI	CCGC!GG	1	1372
Ksp22I	T!GATCA	2	2756; 3128
KspAI	GTT!AAC	1	3234
Kzo9I	!GATC	32	585; 974; 1124; 1150; 1324; 1655; 1722; 1739; 1836; 1845; 2394; 2730; 2756; 3106; 3115; 3128; 4308; 4312; 4331; 4642; 4720; 4801; 4810; 4888; 5264; 5280; 5639; 5651; 5729; 5737; 5748; 5823
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	4815; 5025
LpnI	RGC!GCV	7	596; 1583; 1734; 3736; 3744; 4472; 6147
LpnPI	CCDGN(N)NNNNNNN!	79	102; 295; 614; 742; 799; 847; 881; 943; 958; 1019; 1066; 1087; 1111; 1135; 1197; 1284; 1329; 1435; 1480; 1513; 1584; 1702; 1750; 1870; 2013; 2181; 2223; 2272; 2464; 2836; 2877; 2908; 3008; 3070; 3126; 3208; 3513; 3702; 3925; 3963; 3979; 4019; 4074; 4091; 4191; 4276; 4389; 4466; 4488; 4511; 4647; 4661; 4680; 4737; 4804; 4854; 4870; 4927; 4985; 5194; 5260; 5284; 5360; 5449; 5552; 5585; 5816; 5834; 5980; 6000; 6024; 6050; 6099; 6197; 6242; 6272; 6351; 6376; 6413
LpnPI	!NNNNNNNNNNNNNCHGG	79	75; 268; 552; 586; 772; 820; 916; 1017; 1060; 1169; 1195; 1282; 1301; 1373; 1420; 1452; 1486; 1516; 1556; 1585; 1648; 2024; 2053; 2119; 2196; 2437; 2460; 2645; 2713; 2733; 2804; 2837; 2871; 2897; 2932; 3011; 3046; 3098; 3554; 3674; 3731; 3794; 3992; 4004; 4064; 4076; 4308; 4353; 4396; 4438; 4460; 4488; 4535; 4597; 4619; 4709; 4776; 4799; 4843; 4938; 4957; 4982; 5131; 5232; 5275; 5332; 5422; 5525; 5552; 5570; 5806; 5843; 5996; 6022; 6162; 6180; 6215; 6296; 6349
Lsp1109I	GCAGC(N)NNNNNNN!	16	821; 1263; 1391; 1508; 1536; 1774; 1795; 1891; 2415; 3034; 3259; 4544; 4586; 5107; 5560; 6060
Lsp1109I	!NNNNNNNNNNNGCTGC	13	940; 1436; 1508; 1637; 1679; 1863; 2829; 3753; 4418; 4602; 4695; 5761; 5967
LweI	GCATC(N)NNNN!	11	848; 2560; 2645; 2681; 3085; 3287; 4050; 4122; 4770; 4834; 5109
LweI	!NNNNNNNNNGATGC	9	357; 1001; 1169; 1770; 2094; 4429; 4684; 4900; 6292
MabI	A!CCWGGT	1	4060
MaeI	C!TAG	11	592; 1289; 2285; 2579; 3119; 3320; 3738; 4294; 5309; 5643; 5896

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 968; 1244; 2571; 3531; 3543; 3586; 3696; 4587; 4774; 5555; 5688
MaeIII	!GTNAC	18	61; 148; 497; 891; 1533; 1804; 2535; 2829; 2856; 3259; 3760; 3772; 4591; 4897; 5587; 5853; 5969; 6032
MaiI	GA!TC	32	587; 976; 1126; 1152; 1326; 1657; 1724; 1741; 1838; 1847; 2396; 2732; 2758; 3108; 3117; 3130; 4310; 4314; 4333; 4644; 4722; 4803; 4812; 4890; 5266; 5282; 5641; 5653; 5731; 5739; 5750; 5825
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3895; 5084
MbiI	GAG!CGG	2	3731; 5138
MboI	!GATC	32	585; 974; 1124; 1150; 1324; 1655; 1722; 1739; 1836; 1845; 2394; 2730; 2756; 3106; 3115; 3128; 4308; 4312; 4331; 4642; 4720; 4801; 4810; 4888; 5264; 5280; 5639; 5651; 5729; 5737; 5748; 5823
MboII	GAAGANNNNNNN!	21	916; 1029; 1149; 1217; 1993; 2227; 2506; 2604; 2620; 2689; 2724; 2901; 2929; 3010; 3028; 3055; 3727; 3955; 4832; 5042; 5661
MboII	!NNNNNNNTCTTC	5	2519; 5122; 5289; 5489; 5732
McaTI	GCG!GC	3	1520; 1619; 1644
MfeI	C!AATTG	1	3221
MflI	R!GATCY	13	585; 1150; 1324; 1836; 3106; 3115; 4642; 4888; 5280; 5639; 5651; 5737; 5748
MhII	GDGCH!C	17	667; 694; 727; 1304; 1335; 1414; 1460; 1568; 2911; 3662; 4417; 4510; 4584; 4774; 4836; 5546; 6079
MisI	TGG!CCA	2	1270; 4553
MluI	A!CGCGT	1	3357
MluNI	TGG!CCA	2	1270; 4553
MlyI	GAGTCNNNN!	4	899; 2290; 3523; 3955
MlyI	!NNNNNGACTC	5	404; 1313; 3530; 5136; 6013
Mly113I	GG!CGCC	2	1733; 4471
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1022; 3564
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	3	1841; 5996; 6180
MnII	CCTCNNNNNN!	20	773; 952; 967; 1050; 1183; 1294; 1585; 1708; 1878; 2565; 2661; 2808; 2890; 3190; 4254; 5072; 5278; 5592; 5962; 6286
MnII	!NNNNNGAGG	40	541; 654; 693; 714; 747; 864; 973; 1029; 1218; 1251; 1437; 1539; 1815; 1827; 1944; 1977; 2022; 2108; 2121; 2310; 2495; 2575; 2588; 2610; 2737; 2946; 2997; 3033; 3150; 3615; 3946; 4224; 4267; 4282; 4322; 4386; 4522; 4879; 5309; 6212
Mph1103I	ATGCA!T	3	4043; 4115; 6446
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1315
MroNI	G!CCGGC	3	3688; 4971; 5254
MroXI	GAANN!NNTTC	2	2303; 2429
MscI	TGG!CCA	2	1270; 4553
MseI	T!TAA	22	7; 629; 854; 1310; 1727; 1913; 1991; 2981; 3172; 3233; 3354; 3375; 3386; 3398; 3409; 3426; 3524; 3795; 5614; 5628; 5633; 5685
MslI	CAYNN!NNRTG	4	365; 613; 643; 4908
MspI	C!CGG	22	601; 1184; 1316; 1467; 1571; 3113; 3689; 4376; 4453; 4475; 4503; 4634; 4724; 4791; 4972; 5247; 5255; 5347; 5821; 6011; 6037; 6184
Msp20I	TGG!CCA	2	1270; 4553
MspA1I	CMG!CKG	11	1063; 1371; 1407; 1527; 1692; 2412; 3025; 3969; 4577; 5806; 6051
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	327	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; 633; 651; 669; 699; 717; 732; 747; 765; 798; 813; 841; 856; 880; 893; 909; 927; 941; 957; 970; 984; 1005; 1018; 1039; 1058; 1072; 1086; 1100; 1117; 1134; 1155; 1174; 1188; 1215; 1233; 1253; 1267; 1283; 1300; 1315; 1328; 1342; 1372; 1396; 1413; 1426; 1439; 1465; 1479; 1500; 1513; 1530; 1543; 1557; 1573; 1588; 1602; 1616; 1629; 1646; 1659; 1675; 1691; 1711; 1733; 1748; 1762; 1780; 1801; 1821; 1852; 1868; 1884; 1910; 1924; 1951; 1968; 1986; 2007; 2023; 2051; 2076; 2095; 2113; 2146; 2161; 2180; 2222; 2245; 2270; 2287; 2303; 2320; 2334; 2360; 2375; 2396; 2410; 2425; 2446; 2463; 2483; 2496; 2530; 2543; 2558; 2575; 2591; 2627; 2654; 2672; 2688; 2721; 2735; 2749; 2772; 2787; 2811; 2824; 2858; 2871; 2884; 2898; 2913; 2928; 2957; 2975; 3003; 3038; 3069; 3082; 3125; 3139; 3154; 3178; 3195; 3208; 3249; 3263; 3276; 3294; 3332; 3347; 3365; 3406; 3430; 3450; 3468; 3489; 3512; 3544; 3559; 3581; 3599; 3612; 3633; 3650; 3663; 3676; 3692; 3705; 3735; 3750; 3775; 3793; 3806; 3821; 3845; 3859; 3883; 3908; 3924; 3962; 3978; 4017; 4031; 4045; 4073; 4089; 4103; 4117; 4146; 4159; 4180; 4189; 4211; 4241; 4257; 4275; 4305; 4328; 4352; 4376; 4395; 4423; 4449; 4465; 4478; 4501; 4515; 4535; 4548; 4562; 4581; 4595; 4608; 4624; 4639; 4652; 4668; 4683; 4699; 4724; 4743; 4759; 4772; 4785; 4803; 4817; 4831; 4847; 4869; 4885; 4904; 4926; 4942; 4965; 4984; 4998; 5014; 5028; 5048; 5064; 5077; 5099; 5132; 5146; 5166; 5179; 5193; 5247; 5260; 5283; 5296; 5315; 5332; 5359; 5395; 5428; 5447; 5472; 5493; 5520; 5533; 5550; 5564; 5579; 5595; 5655; 5680; 5696; 5718; 5731; 5745; 5776; 5790; 5815; 5833; 5848; 5861; 5880; 5893; 5908; 5937; 5956; 5974; 5999; 6014; 6033; 6049; 6068; 6086; 6102; 6116; 6135; 6162; 6185; 6207; 6226; 6241; 6254; 6271; 6291; 6318; 6331; 6350; 6375; 6398; 6412; 6425; 6442
MspJI	!NNNNNNNNNNNNYNG	270	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; 616; 643; 673; 697; 715; 739; 758; 780; 820; 841; 867; 887; 916; 958; 992; 1013; 1033; 1060; 1078; 1095; 1113; 1141; 1162; 1181; 1207; 1229; 1252; 1275; 1301; 1322; 1339; 1356; 1374; 1395; 1413; 1437; 1457; 1474; 1504; 1529; 1547; 1564; 1582; 1601; 1620; 1645; 1670; 1691; 1723; 1742; 1759; 1787; 1805; 1825; 1843; 1880; 1909; 1936; 1960; 1981; 2004; 2024; 2042; 2060; 2087; 2110; 2135; 2154; 2196; 2221; 2245; 2271; 2294; 2312; 2334; 2376; 2408; 2432; 2451; 2471; 2505; 2532; 2556; 2590; 2607; 2633; 2655; 2680; 2708; 2727; 2745; 2765; 2787; 2805; 2823; 2850; 2871; 2889; 2908; 2932; 2981; 3012; 3043; 3077; 3099; 3123; 3152; 3181; 3223; 3306; 3344; 3368; 3391; 3420; 3464; 3486; 3518; 3554; 3571; 3592; 3629; 3649; 3666; 3683; 3718; 3736; 3754; 3771; 3795; 3817; 3844; 3872; 3898; 3936; 3957; 3974; 3992; 4015; 4036; 4064; 4087; 4108; 4126; 4147; 4164; 4187; 4211; 4231; 4249; 4271; 4302; 4324; 4350; 4369; 4386; 4414; 4433; 4452; 4470; 4488; 4509; 4531; 4555; 4588; 4608; 4626; 4647; 4673; 4700; 4717; 4734; 4751; 4777; 4799; 4821; 4839; 4859; 4878; 4900; 4938; 4958; 4982; 5002; 5022; 5049; 5073; 5106; 5125; 5153; 5175; 5204; 5232; 5257; 5276; 5295; 5316; 5333; 5350; 5381; 5408; 5428; 5451; 5471; 5508; 5525; 5544; 5570; 5590; 5629; 5656; 5675; 5693; 5730; 5748; 5789; 5807; 5833; 5850; 5882; 5911; 5939; 5960; 5983; 6002; 6023; 6041; 6058; 6076; 6102; 6123; 6143; 6163; 6181; 6202; 6228; 6245; 6264; 6283; 6312; 6331; 6349; 6368; 6386; 6404; 6427
MspR9I	CC!NGG	25	90; 283; 787; 835; 931; 946; 1075; 1184; 1435; 1501; 2211; 2452; 4007; 4062; 4079; 4475; 4635; 4858; 5248; 5437; 5540; 6012; 6230; 6243; 6364
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	3221
MvaI	CC!WGG	20	90; 283; 787; 835; 931; 946; 1075; 1435; 1501; 2211; 2452; 4007; 4062; 4079; 4858; 5437; 5540; 6230; 6243; 6364
Mva1269I	GAATGCN!	2	2169; 3222
Mva1269I	G!CATTC	1	3315
MvnI	CG!CG	30	60; 1371; 1385; 1419; 1428; 1454; 1519; 1544; 1556; 1609; 1611; 1616; 1618; 1637; 1643; 2019; 3359; 3395; 3771; 3791; 3815; 3846; 4537; 4838; 5276; 5360; 5423; 5492; 5765; 6346
MvrI	CGAT!CG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MwoI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 648; 1079; 1093; 1345; 1388; 1418; 1455; 1527; 1615; 1647; 1659; 1789; 1873; 2016; 2409; 2848; 3698; 3728; 3755; 3797; 4038; 4110; 4161; 4240; 4462; 4546; 4569; 4708; 4831; 4914; 5181; 5368; 5572; 5771; 6343
NaeI	GCC!GGC	3	3690; 4973; 5256
NarI	GG!CGCC	2	1733; 4471
NciI	CC!SGG	5	1184; 4475; 4635; 5248; 6012
NcoI	C!CATGG	4	360; 611; 4200; 4903
NdeI	CA!TATG	1	234
NdeII	!GATC	32	585; 974; 1124; 1150; 1324; 1655; 1722; 1739; 1836; 1845; 2394; 2730; 2756; 3106; 3115; 3128; 4308; 4312; 4331; 4642; 4720; 4801; 4810; 4888; 5264; 5280; 5639; 5651; 5729; 5737; 5748; 5823
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	731
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	767
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	3688; 4971; 5254
NheI	G!CTAGC	1	591
NlaIII	CATG!	32	304; 364; 615; 642; 648; 660; 738; 804; 884; 1095; 1977; 2014; 2086; 2104; 2152; 2238; 2294; 2358; 2460; 3901; 4041; 4113; 4204; 4345; 4690; 4876; 4907; 4933; 5289; 5673; 6393; 6444
NlaIV	GGN!NCC	22	467; 666; 726; 1117; 1395; 1432; 1734; 3066; 3108; 3626; 3647; 3659; 3850; 4011; 4083; 4472; 4507; 5355; 5434; 5479; 6322; 6361
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	3303; 3618; 5210
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 991; 6282
Nli3877I	CYCGR!G	2	1332; 2550
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	4260; 4696
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1007; 4225
NmeDI	RCCGGYNNNNNNNN!	7	612; 1478; 1582; 3700; 4802; 4983; 5266
NmeDI	!NNNNNNNNNNNNRCCGGY	7	587; 1453; 1557; 3675; 4777; 4958; 5241
NmuCI	!GTSAC	8	891; 1533; 1804; 2535; 2856; 3760; 4591; 4897
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	2	1495; 4573
NsiI	ATGCA!T	3	4043; 4115; 6446
NspI	RCATG!Y	8	642; 1977; 2294; 2358; 4041; 4113; 4876; 6393
NspV	TT!CGAA	2	1774; 5153
OliI	CACNN!NNGTG	1	613
PabI	GTA!C	15	220; 245; 300; 333; 384; 541; 656; 806; 1058; 1481; 2063; 2571; 2575; 2974; 4778
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	2358; 4041; 4113; 4876
PaeR7I	C!TCGAG	1	1328
PagI	T!CATGA	3	2082; 3897; 5669
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	834; 5436; 5539
PauI	G!CGCGC	3	1517; 1616; 1641
PceI	AGG!CCT	2	1039; 4292
PciI	A!CATGT	1	6389
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	4815; 5025
PcsI	WCGNNNN!NNNCGW	8	1253; 2568; 4765; 4842; 5085; 5159; 5552; 6070
PctI	GAATGCN!	2	2169; 3222
PctI	G!CATTC	1	3315
PdiI	GCC!GGC	3	3690; 4973; 5256
PdmI	GAANN!NNTTC	2	2303; 2429
PfeI	G!AWTC	12	740; 1217; 1717; 1929; 2035; 2304; 2611; 4956; 5090; 5200; 5237; 6415
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	4589
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	3	944; 1433; 5246

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PhoI	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1394; 1559; 1574; 1603; 1633; 2822; 3437; 3579; 4234; 4240; 4249; 4292; 4379; 4553; 4944; 4971; 5480; 5537; 5570; 5915; 6349; 6367; 6378
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	3	2203; 2803; 4852
PlaDI	!NNNNNNNNNNNNNNNNNNNCTGATG	3	2201; 4417; 4672
PleI	GAGTCNNNN!	4	898; 2289; 3522; 3954
PleI	!NNNNNGACTC	5	404; 1313; 3530; 5136; 6013
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	2	2916; 3553
PpiI	!NNNNNNNGAGNNNNNGTTC	1	5683
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	5715
PpiI	!NNNNNNNGAACNNNNNNCTC	2	2884; 3521
PpsI	GAGTCNNNN!	4	898; 2289; 3522; 3954
PpsI	!NNNNNGACTC	5	404; 1313; 3530; 5136; 6013
Ppu10I	A!TGCAT	3	4039; 4111; 6442
Ppu21I	YAC!GTR	4	340; 2572; 3587; 4775
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	6389
PshAI	GACNN!NNGTC	1	1243
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	3	2789; 3254; 3459
Psp03I	GGWC!C	2	4990; 5435
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	20	88; 281; 785; 833; 929; 944; 1073; 1433; 1499; 2209; 2450; 4005; 4060; 4077; 4856; 5435; 5538; 6228; 6241; 6362
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	3	1335; 1460; 1568
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	20	88; 281; 785; 833; 929; 944; 1073; 1433; 1499; 2209; 2450; 4005; 4060; 4077; 4856; 5435; 5538; 6228; 6241; 6362
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 666; 726; 1117; 1395; 1432; 1734; 3066; 3108; 3626; 3647; 3659; 3850; 4011; 4083; 4472; 4507; 5355; 5434; 5479; 6322; 6361
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	4	125; 1760; 4201; 5200
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	2	2020; 4603
PspPI	G!GNCC	14	83; 276; 760; 1003; 1095; 1116; 1393; 1632; 3578; 4987; 5432; 5478; 5536; 5569
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	4	2671; 4024; 4096; 5602
PspPRI	!NNNNNNNNNNNNNNNNNCTGRGG	5	855; 1283; 1935; 3937; 5132
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	5572
PstI	CTGCA!G	4	1526; 1532; 1655; 1881
PstNI	CAGNNN!CTG	4	1277; 2659; 5572; 5980
PsuI	R!GATCY	13	585; 1150; 1324; 1836; 3106; 3115; 4642; 4888; 5280; 5639; 5651; 5737; 5748
PsyI	GACN!NNGTC	1	4589
PteI	G!CGCGC	3	1517; 1616; 1641
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	6	1527; 1692; 2412; 3025; 3969; 4577
RcaI	T!CATGA	3	2082; 3897; 5669
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	2	1508; 4986
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RgiI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNN!	1	3200
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	15	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1480; 2062; 2570; 2574; 2973; 4777
RsaNI	G!TAC	15	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1479; 2061; 2569; 2573; 2972; 4776
RseI	CAYNN!NNRTG	4	365; 613; 643; 4908
RsrII	CG!GWCCG	1	4987
Rsr2I	CG!GWCCG	1	4987
SacI	GAGCT!C	3	1335; 1460; 1568
SacII	CCGC!GG	1	1372
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	4815; 5025
SaqAI	T!TAA	22	7; 629; 854; 1310; 1727; 1913; 1991; 2981; 3172; 3233; 3354; 3375; 3386; 3398; 3409; 3426; 3524; 3795; 5614; 5628; 5633; 5685
SatI	GC!NGC	54	759; 810; 954; 1071; 1252; 1366; 1369; 1380; 1383; 1392; 1405; 1429; 1450; 1497; 1525; 1528; 1557; 1651; 1693; 1763; 1784; 1880; 2232; 2404; 2843; 3023; 3248; 3767; 3789; 3803; 4241; 4380; 4432; 4443; 4533; 4538; 4575; 4616; 4703; 4706; 4709; 4945; 5041; 5082; 5096; 5210; 5549; 5564; 5775; 5981; 5984; 6049; 6192; 6347
Sau96I	G!GNCC	14	83; 276; 760; 1003; 1095; 1116; 1393; 1632; 3578; 4987; 5432; 5478; 5536; 5569
Sau3AI	!GATC	32	585; 974; 1124; 1150; 1324; 1655; 1722; 1739; 1836; 1845; 2394; 2730; 2756; 3106; 3115; 3128; 4308; 4312; 4331; 4642; 4720; 4801; 4810; 4888; 5264; 5280; 5639; 5651; 5729; 5737; 5748; 5823
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	899; 2290; 3523; 3955
SchI	!NNNNNGACTC	5	404; 1313; 3530; 5136; 6013
SciI	CTC!GAG	1	1330
ScrFI	CC!NGG	25	90; 283; 787; 835; 931; 946; 1075; 1184; 1435; 1501; 2211; 2452; 4007; 4062; 4079; 4475; 4635; 4858; 5248; 5437; 5540; 6012; 6230; 6243; 6364
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	8	1041; 1229; 1461; 2027; 4049; 4121; 4290; 6232
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	2700; 4626; 5111
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	17	667; 694; 727; 1304; 1335; 1414; 1460; 1568; 2911; 3662; 4417; 4510; 4584; 4774; 4836; 5546; 6079
SelI	!CGCG	30	58; 1369; 1383; 1417; 1426; 1452; 1517; 1542; 1554; 1607; 1609; 1614; 1616; 1635; 1641; 2017; 3357; 3393; 3769; 3789; 3813; 3844; 4535; 4836; 5274; 5358; 5421; 5490; 5763; 6344
SetI	ASST!	93	125; 137; 178; 261; 308; 342; 447; 552; 568; 626; 653; 799; 820; 971; 1106; 1124; 1175; 1243; 1247; 1262; 1286; 1335; 1341; 1451; 1460; 1493; 1529; 1535; 1553; 1568; 1601; 1652; 1664; 1694; 1748; 1788; 1878; 2033; 2069; 2135; 2264; 2414; 2432; 2506; 2513; 2574; 2800; 2882; 2930; 2960; 2997; 3027; 3091; 3161; 3182; 3191; 3203; 3252; 3419; 3534; 3546; 3589; 3626; 3676; 3699; 3823; 3971; 4066; 4259; 4372; 4500; 4579; 4590; 4662; 4733; 4777; 5037; 5183; 5227; 5558; 5589; 5648; 5691; 5834; 5855; 5954; 6091; 6106; 6125; 6137; 6181; 6227; 6278
SexAI	A!CCWGGT	1	4060
SfaAI	GCGAT!CGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SfaNI	GCATCNNNNN!	11	848; 2560; 2645; 2681; 3085; 3287; 4050; 4122; 4770; 4834; 5109
SfaNI	!NNNNNNNNNGATGC	9	357; 1001; 1169; 1770; 2094; 4429; 4684; 4900; 6292
SfcI	C!TRYAG	8	1522; 1528; 1651; 1877; 2272; 3806; 5933; 6124
SfiI	GGCCNNNN!NGGCC	1	4246
SfoI	GGC!GCC	2	1734; 4472
Sfr274I	C!TCGAG	1	1328
Sfr303I	CCGC!GG	1	1372
SfuI	TT!CGAA	2	1774; 5153
SgeI	CNNGNNNNNNNNN!	250	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 651; 669; 699; 723; 741; 756; 798; 813; 846; 880; 893; 921; 942; 957; 984; 1018; 1039; 1059; 1072; 1086; 1104; 1117; 1134; 1167; 1188; 1222; 1260; 1283; 1301; 1328; 1342; 1372; 1396; 1413; 1428; 1446; 1465; 1479; 1500; 1513; 1530; 1543; 1557; 1573; 1590; 1608; 1622; 1641; 1654; 1671; 1686; 1701; 1749; 1762; 1801; 1869; 1968; 1986; 2007; 2023; 2051; 2076; 2095; 2113; 2146; 2161; 2180; 2222; 2247; 2271; 2297; 2320; 2334; 2360; 2446; 2463; 2487; 2531; 2545; 2558; 2591; 2633; 2672; 2721; 2740; 2760; 2813; 2831; 2864; 2898; 2913; 2959; 3007; 3038; 3069; 3083; 3125; 3178; 3207; 3249; 3332; 3370; 3406; 3490; 3512; 3544; 3581; 3599; 3618; 3633; 3675; 3692; 3709; 3744; 3758; 3775; 3797; 3821; 3845; 3910; 3924; 3962; 3978; 4018; 4031; 4050; 4073; 4090; 4103; 4122; 4152; 4173; 4190; 4213; 4248; 4275; 4306; 4328; 4354; 4376; 4395; 4423; 4459; 4478; 4501; 4515; 4535; 4548; 4562; 4581; 4595; 4614; 4646; 4660; 4673; 4699; 4730; 4743; 4760; 4777; 4791; 4808; 4826; 4841; 4869; 4885; 4904; 4926; 4942; 4965; 4984; 5009; 5028; 5048; 5075; 5099; 5132; 5151; 5179; 5193; 5259; 5283; 5298; 5321; 5342; 5359; 5407; 5434; 5448; 5477; 5501; 5534; 5551; 5571; 5584; 5597; 5655; 5682; 5701; 5731; 5756; 5776; 5790; 5815; 5833; 5870; 5908; 5937; 5965; 5979; 5999; 6014; 6035; 6049; 6068; 6086; 6102; 6142; 6162; 6189; 6207; 6228; 6241; 6254; 6271; 6295; 6318; 6350; 6375; 6402; 6424
SgeI	!NNNNNNNNNNNNNCNNG	220	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 625; 643; 673; 697; 715; 739; 772; 820; 854; 895; 916; 958; 992; 1013; 1033; 1060; 1078; 1099; 1120; 1141; 1162; 1196; 1234; 1257; 1275; 1302; 1322; 1346; 1370; 1387; 1404; 1421; 1439; 1457; 1474; 1504; 1529; 1547; 1564; 1582; 1601; 1620; 1645; 1670; 1723; 1775; 1843; 1942; 1960; 1981; 2004; 2025; 2050; 2069; 2087; 2120; 2144; 2196; 2221; 2245; 2271; 2294; 2312; 2334; 2420; 2437; 2461; 2505; 2532; 2565; 2607; 2646; 2695; 2714; 2734; 2787; 2805; 2838; 2872; 2889; 2933; 2981; 3012; 3043; 3099; 3152; 3181; 3223; 3306; 3344; 3380; 3464; 3486; 3518; 3555; 3573; 3592; 3649; 3666; 3683; 3718; 3736; 3756; 3776; 3795; 3819; 3884; 3936; 3992; 4024; 4047; 4064; 4096; 4126; 4147; 4164; 4187; 4222; 4249; 4280; 4302; 4328; 4350; 4369; 4397; 4433; 4452; 4475; 4496; 4514; 4531; 4555; 4588; 4620; 4647; 4673; 4704; 4734; 4751; 4777; 4800; 4821; 4843; 4863; 4883; 4900; 4939; 4958; 4983; 5002; 5022; 5049; 5073; 5106; 5125; 5153; 5175; 5233; 5257; 5276; 5295; 5316; 5333; 5381; 5408; 5428; 5451; 5475; 5508; 5525; 5545; 5571; 5629; 5656; 5675; 5705; 5730; 5750; 5789; 5807; 5844; 5882; 5911; 5939; 5960; 5988; 6009; 6042; 6060; 6116; 6136; 6163; 6181; 6202; 6228; 6245; 6269; 6292; 6324; 6349; 6376; 6398; 6427
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	1372
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 3618; 5405; 6198
SimI	!GACCC	6	106; 1049; 1355; 4899; 5467; 5715
SinI	G!GWCC	2	4987; 5432
SlaI	C!TCGAG	1	1328
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	365; 613; 643; 4908
SmlI	C!TYRAG	11	1174; 1328; 1334; 1576; 2158; 2556; 2799; 4862; 5744; 6021; 6283

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SmoI	C!TYRAG	11	1174; 1328; 1334; 1576; 2158; 2556; 2799; 4862; 5744; 6021; 6283
SmuI	CCCGCNNNN!	11	93; 119; 286; 1068; 1170; 1642; 3793; 4148; 4169; 5365; 5497
SmuI	!NNNNNNGCGGG	6	1105; 3724; 4594; 5131; 5269; 5416
SnaBI	TAC!GTA	2	340; 2572
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	2358; 4041; 4113; 4876
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	21	18; 1311; 1770; 2048; 2240; 2311; 2681; 2698; 2765; 2834; 2940; 3095; 3221; 3285; 3363; 3389; 3400; 4047; 4119; 4211; 5629
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	2	1039; 4292
SsiI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1366; 1369; 1383; 1405; 1635; 2232; 2648; 2706; 3786; 3789; 3803; 3893; 4141; 4153; 4162; 4174; 4184; 4195; 4241; 4380; 4443; 4945; 4990; 5056; 5082; 5207; 5210; 5358; 5490; 5797; 5941; 6437
SsiI	G!CGG	35	370; 403; 528; 748; 758; 1070; 1112; 1371; 1391; 1428; 1474; 1556; 1678; 2383; 2589; 3731; 3758; 3846; 3956; 4537; 4601; 4702; 4705; 4985; 5040; 5138; 5276; 5423; 5563; 5806; 6051; 6172; 6191; 6318; 6346
SspI	AAT!ATT	2	3379; 3932
SspDI	G!GCGCC	2	1732; 4470
SspD5I	GGTGANNNNNNNN!	7	376; 627; 996; 1545; 1816; 5542; 5658
SspD5I	!NNNNNNNNNTCACC	4	884; 1559; 3587; 4648
SstI	GAGCT!C	3	1335; 1460; 1568
SstII	CCGC!GG	1	1372
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	1	929
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	23	92; 118; 285; 851; 1067; 1169; 1190; 1367; 1641; 2538; 2553; 3670; 3792; 4147; 4168; 4481; 4884; 5023; 5094; 5364; 5496; 5726; 6164
Sth132I	!NNNNNNNNCNGGG	20	15; 407; 470; 900; 1104; 3671; 3723; 3824; 4551; 4593; 4626; 5130; 5239; 5268; 5415; 5519; 5550; 6003; 6047; 6255
Sth302II	CC!GG	22	602; 1185; 1317; 1468; 1572; 3114; 3690; 4377; 4454; 4476; 4504; 4635; 4725; 4792; 4973; 5248; 5256; 5348; 5822; 6012; 6038; 6185
StrI	C!TCGAG	1	1328
StsI	GGATGNNNNNNNNNN!	5	1387; 4339; 4796; 4821; 5275
StsI	!NNNNNNNNNNNNNNCATCC	8	680; 768; 825; 980; 2240; 2537; 3062; 4143
StuI	AGG!CCT	2	1039; 4292
StyI	C!CWWGG	6	360; 611; 4200; 4293; 4903; 5308
StyD4I	!CCNGG	25	88; 281; 785; 833; 929; 944; 1073; 1182; 1433; 1499; 2209; 2450; 4005; 4060; 4077; 4473; 4633; 4856; 5246; 5435; 5538; 6010; 6228; 6241; 6362
SwaI	ATTT!AAAT	0	
Taal	ACN!GT	21	76; 198; 269; 543; 581; 669; 1892; 2174; 2199; 2206; 2541; 2829; 2976; 3562; 4851; 4967; 5075; 5398; 5889; 6359; 6430
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 971; 1247; 2574; 3534; 3546; 3589; 3699; 4590; 4777; 5558; 5691
TaqI	T!CGA	22	752; 779; 1247; 1329; 1342; 1484; 1622; 1658; 1749; 1774; 2675; 3620; 4311; 4584; 4740; 4764; 4800; 4962; 5153; 5198; 5453; 6291
TaqII	GACCGANNNNNNNNNN!	4	1609; 3491; 4508; 5176
TaqII	!NNNNNNNNNTCGGTC	1	5420
TaqII	CACCCANNNNNNNNNN!	2	742; 847
TaqII	!NNNNNNNNNTGGGTG	3	172; 4375; 4967
TasI	!AATT	21	18; 1311; 1770; 2048; 2240; 2311; 2681; 2698; 2765; 2834; 2940; 3095; 3221; 3285; 3363; 3389; 3400; 4047; 4119; 4211; 5629
TatI	W!GTACW	8	217; 297; 330; 381; 653; 1478; 2060; 2971
TauI	GCSG!C	25	761; 1073; 1368; 1371; 1385; 1394; 1407; 1431; 1559; 2234; 3791; 3805; 4243; 4382; 4445; 4540; 4705; 4708; 4947; 5043; 5084; 5212; 5566; 6194; 6349
TfiI	G!AWTC	12	740; 1217; 1717; 1929; 2035; 2304; 2611; 4956; 5090; 5200; 5237; 6415
TliI	C!TCGAG	1	1328

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TruII	T!TAA	22	7; 629; 854; 1310; 1727; 1913; 1991; 2981; 3172; 3233; 3354; 3375; 3386; 3398; 3409; 3426; 3524; 3795; 5614; 5628; 5633; 5685
Tru9I	T!TAA	22	7; 629; 854; 1310; 1727; 1913; 1991; 2981; 3172; 3233; 3354; 3375; 3386; 3398; 3409; 3426; 3524; 3795; 5614; 5628; 5633; 5685
TscAI	CASTGNN!	9	2211; 2472; 2664; 2916; 3317; 4600; 5710; 5981; 5994
TseI	G!CWGC	29	809; 953; 1251; 1379; 1449; 1496; 1524; 1527; 1650; 1692; 1762; 1783; 1879; 2403; 2842; 3022; 3247; 3766; 4431; 4532; 4574; 4615; 4708; 5095; 5548; 5774; 5980; 5983; 6048
TsoI	TARCCANNNNNNNNNN!	3	621; 3443; 3790
TsoI	!NNNNNNNNNTGGYTA	3	778; 3248; 5000
Tsp45I	!GTSAC	8	891; 1533; 1804; 2535; 2856; 3760; 4591; 4897
Tsp509I	!AATT	21	18; 1311; 1770; 2048; 2240; 2311; 2681; 2698; 2765; 2834; 2940; 3095; 3221; 3285; 3363; 3389; 3400; 4047; 4119; 4211; 5629
TspDTI	ATGAANNNNNNNNNN!	10	661; 1772; 1916; 1994; 2027; 2200; 2438; 3229; 4530; 5234
TspDTI	!NNNNNNNNNTTCAT	8	26; 789; 810; 2071; 2243; 4948; 5404; 5611
TspEI	!AATT	21	18; 1311; 1770; 2048; 2240; 2311; 2681; 2698; 2765; 2834; 2940; 3095; 3221; 3285; 3363; 3389; 3400; 4047; 4119; 4211; 5629
TspGWI	ACGGANNNNNNNNNN!	3	1522; 1552; 5346
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	9	2211; 2472; 2664; 2916; 3317; 4600; 5710; 5981; 5994
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	4589
Tth111II	CAARCANNNNNNNNNN!	1	5798
Tth111II	!NNNNNNNNNTGYTTG	6	2283; 2314; 2657; 4906; 5766; 5805
UnbI	!GGNCC	14	82; 275; 759; 1002; 1094; 1115; 1392; 1631; 3577; 4986; 5431; 5477; 5535; 5568
Van9II	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	690; 6075
VpaK11AI	!GGWCC	2	4986; 5431
VpaK11BI	G!GWCC	2	4987; 5432
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	1	1948
XapI	R!AATY	5	2698; 2940; 3285; 3389; 3400
XbaI	T!CTAGA	2	2284; 3118
XceI	RCATG!Y	8	642; 1977; 2294; 2358; 4041; 4113; 4876; 6393
XcmI	CCANNNN!NNNTGG	1	2744
XhoI	C!TCGAG	1	1328
XhoII	R!GATCY	13	585; 1150; 1324; 1836; 3106; 3115; 4642; 4888; 5280; 5639; 5651; 5737; 5748
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	4293; 5308
XmiI	GT!MKAC	1	1190
XmnI	GAANN!NNNTTC	2	2303; 2429
XspI	C!TAG	11	592; 1289; 2285; 2579; 3119; 3320; 3738; 4294; 5309; 5643; 5896
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	4043; 4115; 6446