

## pTagBFP-actin vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2603; 2808
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	4	2062; 2891; 3847; 5636
AatI	AGG!CCT	2	1030; 3641
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	1181; 1355
AccII	CG!CG	19	60; 1345; 1390; 1673; 1913; 2708; 2744; 3120; 3140; 3164; 3195; 3886; 4187; 4625; 4709; 4772; 4841; 5114; 5695
AccIII	T!CCGGA	1	1306
Acc16I	TGC!GCA	1	3922
Acc36I	ACCTGCNNNN!	2	4088; 4538
Acc36I	!NNNNNNNNGCAGGT	1	3707
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	11	465; 655; 715; 1433; 1442; 1583; 2230; 2286; 2973; 3819; 3854
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	3244; 4433
AccBSI	GAG!CGG	4	1941; 2085; 3080; 4487
AceIII	CAGCTCNNNNNNN!	2	2034; 2776
AceIII	!NNNNNNNNNNGAGCTG	4	552; 601; 1591; 2035
AciI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 914; 1052; 1154; 1343; 1671; 2091; 2193; 2439; 3135; 3138; 3152; 3242; 3490; 3502; 3511; 3523; 3533; 3544; 3590; 3729; 3792; 4294; 4339; 4405; 4431; 4556; 4559; 4707; 4839; 5146; 5290; 5786
AciI	G!CGG	33	370; 403; 528; 595; 749; 1061; 1103; 1390; 1913; 1941; 2085; 2228; 2351; 3080; 3107; 3195; 3305; 3886; 3950; 4051; 4054; 4334; 4389; 4487; 4625; 4772; 4912; 5155; 5400; 5521; 5540; 5667; 5695
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	11	2353; 2401; 2463; 2472; 3688; 3999; 4245; 4637; 4996; 5094; 5180
AclWI	!NNNNNGATCC	8	580; 1136; 1893; 2450; 4064; 4608; 4995; 5092
AcoI	Y!GGCCR	10	1259; 1761; 1869; 1934; 2006; 2058; 3726; 3900; 4291; 4318
AcsI	R!AATTY	3	2634; 2738; 2749
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	4	1111; 1546; 3966; 4398
AcuI	!NNNNNNNNNNNNNNNCTCAG	1	5196
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 1178; 1434; 3820; 4522; 4601
AdeI	CACNNN!GTG	4	1251; 1632; 1812; 2936
AfaI	GT!AC	16	219; 244; 299; 332; 383; 540; 646; 1048; 1531; 1723; 1753; 1767; 2206; 2242; 2335; 4126
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	23	49; 712; 825; 1057; 1430; 1796; 1857; 2130; 2832; 3158; 3550; 3801; 4345; 4626; 4658; 4790; 4825; 4875; 4907; 5260; 5539; 5705; 5723
AfiII	C!TTAAG	0	
AfiIII	A!CRYGT	2	2706; 5738
AgeI	A!CCGGT	0	
AgsI	TTS!AA	9	678; 846; 1707; 2163; 3231; 3275; 3285; 3698; 5274
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	2184
AjnI	!CCWGG	28	88; 281; 776; 824; 920; 935; 1064; 1173; 1438; 1445; 1733; 1862; 1985; 2030; 2060; 2123; 2244; 2282; 2360; 3354; 3409; 3426; 4205; 4784; 4887; 5577; 5590; 5711

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	GAANNNNNNNTTGGNNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	0	
AlfI	GCANNNNNTGCGNNNNNNNNNNNN!	2	3394; 3466
AlfI	!NNNNNNNNNGCANNNNNNNTGC	2	3360; 3432
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	2	1002; 2902
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	2	970; 2870
AluI	AG!CT	24	566; 615; 642; 788; 1095; 1299; 1324; 1605; 1922; 1971; 2024; 2042; 2049; 2599; 2766; 3023; 3318; 3606; 3926; 4384; 5181; 5438; 5484; 5574
AluBI	AG!CT	24	566; 615; 642; 788; 1095; 1299; 1324; 1605; 1922; 1971; 2024; 2042; 2049; 2599; 2766; 3023; 3318; 3606; 3926; 4384; 5181; 5438; 5484; 5574
AlwI	GGATCNNNN!	11	2353; 2401; 2463; 2472; 3688; 3999; 4245; 4637; 4996; 5094; 5180
AlwI	!NNNNNGATCC	8	580; 1136; 1893; 2450; 4064; 4608; 4995; 5092
Alw21I	GWGCW!C	6	685; 1544; 1628; 3933; 4123; 5428
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	7	1033; 1222; 1693; 3244; 3662; 4681; 4809
Alw44I	G!TGCAC	2	681; 5424
AlwNI	CAGNNN!CTG	3	1268; 4921; 5329
Ama87I	C!YCGRG	3	1319; 1406; 1618
Aor13HI	T!CCGGA	1	1306
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	0	
ApaBI	GCANNNN!TGC	4	1633; 3388; 3460; 4922
ApaLI	G!TGCAC	2	681; 5424
ApeKI	G!CWGC	21	800; 944; 1242; 1605; 1635; 2014; 2049; 2093; 2596; 3115; 3780; 3881; 3923; 3964; 4057; 4444; 4897; 5123; 5329; 5332; 5397
ApoI	R!AATY	3	2634; 2738; 2749
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4335
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4129; 4782; 5620
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	2	1789; 4219
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	2399
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	2	1646; 3648
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	2	2006; 2299
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	3	771; 1398; 4390
ArsI	GACNNNNNTTYGNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	31	586; 966; 1116; 1142; 1316; 1689; 1899; 2274; 2304; 2310; 2346; 2394; 2456; 2465; 2478; 3658; 3662; 3681; 3992; 4070; 4151; 4160; 4238; 4614; 4630; 4989; 5001; 5079; 5087; 5098; 5173
AsiGI	A!CCGGT	0	
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	2	1798; 3938
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3642; 4657
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	24	1347; 1436; 1913; 2330; 3086; 3094; 3120; 3142; 3151; 3164; 3195; 3814; 3822; 3886; 3923; 4189; 4449; 4625; 4711; 5114; 5223; 5397; 5497; 5564
AspS9I	G!GNCC	17	83; 276; 751; 994; 1086; 1409; 1497; 1647; 1860; 1875; 2422; 2927; 4336; 4781; 4827; 4885; 4918
AssI	AGT!ACT	1	2335

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AsuI	TT!CGAA	1	4502
AsuC2I	CC!SGG	7	1407; 1408; 1873; 3824; 3984; 4597; 5361
AsuHPI	GGTGANNNNNNNN!	5	376; 987; 1804; 4891; 5007
AsuHPI	!NNNNNNNTCACC	10	876; 1026; 1512; 1545; 1794; 1896; 1917; 2061; 2937; 3998
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	3	1319; 1406; 1618
AvaII	G!GWCC	4	1860; 1875; 4336; 4781
AviII	TGC!GCA	1	3922
AvrII	C!CTAGG	2	3642; 4657
AxyI	CC!TNAGG	4	860; 2099; 3300; 4932
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	8	658; 685; 718; 1295; 1817; 3766; 3859; 5428
BalI	TGG!CCA	3	1261; 2008; 3902
BamHI	G!GATCC	1	2455
BanI	G!GYRCC	11	465; 655; 715; 1433; 1442; 1583; 2230; 2286; 2973; 3819; 3854
BanII	GRGCY!C	3	3011; 4185; 4895
BanIII	AT!CGAT	1	3660
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	1992
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	1960
BasI	CCANNN!NTGG	0	
BauI	C!ACGAG	3	1246; 4538; 5565
BauI	C!TCGTG	2	1096; 4412
BbeI	GGCGC!C	2	1437; 3823
Bbr7I	GAAGACNNNNNN!	1	907
Bbr7I	!NNNNNNNNNNNGTCTTC	1	1402
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	902
BbsI	!NNNNNNGTCTTC	1	1407
BbuI	GCATG!C	3	3390; 3462; 4225
BbvI	GCAGCNNNNNNNN!	8	812; 1254; 2608; 3893; 3935; 4456; 4909; 5409
BbvI	!NNNNNNNNNNNGCTGC	12	931; 1592; 1622; 2001; 2036; 2080; 3102; 3767; 3951; 4044; 5110; 5316
Bbv12I	GWGCW!C	6	685; 1544; 1628; 3933; 4123; 5428
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	13	677; 1118; 1432; 1543; 1825; 1855; 2176; 2365; 2437; 2950; 3514; 4040; 4542
BccI	!NNNNNGATGG	6	1449; 1776; 1998; 2918; 3698; 4126
BceAI	ACGGCNNNNNNNNNN!	11	813; 957; 1008; 1074; 1377; 1560; 1949; 2027; 2073; 4246; 4733
BceAI	!NNNNNNNNNNNGCCGT	5	1396; 1748; 2961; 3779; 5238
Bcefl	ACGGCNNNNNNNNNN!	11	813; 957; 1008; 1074; 1377; 1560; 1949; 2027; 2073; 4246; 4733
Bcefl	!NNNNNNNNNNNGCCGT	5	1397; 1749; 2962; 3780; 5239
BcgI	CGANNNNNTGCNNNNNNNNNN!	1	1847
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNTGC	1	1813
BciVI	GTATCCNNNNNN!	3	3249; 4039; 5540
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2477
BcnI	CC!SGG	7	1407; 1408; 1873; 3824; 3984; 4597; 5361
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNN!	4	1705; 1918; 2500; 5673
BdaI	!NNNNNNNNNTGANNNNNTCA	4	1671; 1884; 2466; 5639
BfaI	C!TAG	11	592; 785; 1280; 2451; 2468; 2669; 3087; 3643; 4658; 4992; 5245
BfiI	ACTGGGNNNN!	3	1297; 1569; 3769
BfiI	!NNNCCCAGT	2	289; 3521
BfmI	C!TRYAG	5	1194; 1917; 3155; 5282; 5473

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BfoI	RGCGC!Y	5	1437; 3087; 3095; 3823; 5498
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	3249; 4039; 5540
BfuI	!NNNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4088; 4538
BfuAI	!NNNNNNNNGCAGGT	1	3707
BfuCI	!GATC	31	585; 965; 1115; 1141; 1315; 1688; 1898; 2273; 2303; 2309; 2345; 2393; 2455; 2464; 2477; 3657; 3661; 3680; 3991; 4069; 4150; 4159; 4237; 4613; 4629; 4988; 5000; 5078; 5086; 5097; 5172
BglI	GCCNNNN!NGGC	6	90; 212; 283; 1070; 1408; 3595
BglII	A!GATCT	1	1315
BisI	GC!NGC	42	750; 801; 945; 1062; 1243; 1343; 1606; 1636; 1914; 2015; 2050; 2094; 2229; 2352; 2597; 3116; 3138; 3152; 3590; 3729; 3781; 3792; 3882; 3887; 3924; 3965; 4052; 4055; 4058; 4294; 4390; 4431; 4445; 4559; 4898; 4913; 5124; 5330; 5333; 5398; 5541; 5696
BlnI	C!CTAGG	2	3642; 4657
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	42	751; 802; 946; 1063; 1244; 1344; 1607; 1637; 1915; 2016; 2051; 2095; 2230; 2353; 2598; 3117; 3139; 3153; 3591; 3730; 3782; 3793; 3883; 3888; 3925; 3966; 4053; 4056; 4059; 4295; 4391; 4432; 4446; 4560; 4899; 4914; 5125; 5331; 5334; 5399; 5542; 5697
BmcAI	AGT!ACT	1	2335
Bme18I	G!GWCC	4	1860; 1875; 4336; 4781
Bme1390I	CC!NGG	35	90; 283; 778; 826; 922; 937; 1066; 1175; 1407; 1408; 1440; 1447; 1735; 1864; 1873; 1987; 2032; 2062; 2125; 2246; 2284; 2362; 3356; 3411; 3428; 3824; 3984; 4207; 4597; 4786; 4889; 5361; 5579; 5592; 5713
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	3	1319; 1406; 1618
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	2184
BmgT120I	GG!NCC	17	84; 277; 752; 995; 1087; 1410; 1498; 1648; 1861; 1876; 2423; 2928; 4337; 4782; 4828; 4886; 4919
BmiI	GGN!NCC	30	467; 657; 717; 1108; 1365; 1435; 1444; 1585; 1616; 1649; 1876; 2089; 2232; 2288; 2355; 2424; 2457; 2975; 2996; 3008; 3199; 3360; 3432; 3821; 3856; 4704; 4783; 4828; 5671; 5710
BmrI	ACTGGGNNNNN!	3	1297; 1569; 3769
BmrI	!NNNNCCCAGT	2	289; 3521
BmrFI	CC!NGG	35	90; 283; 778; 826; 922; 937; 1066; 1175; 1407; 1408; 1440; 1447; 1735; 1864; 1873; 1987; 2032; 2062; 2125; 2246; 2284; 2362; 3356; 3411; 3428; 3824; 3984; 4207; 4597; 4786; 4889; 5361; 5579; 5592; 5713
BmsI	GCATCNNNNN!	11	839; 1523; 1556; 1784; 2153; 2636; 3399; 3471; 4119; 4183; 4458
BmsI	!NNNNNNNNGATGC	9	357; 992; 1160; 1389; 2252; 3778; 4033; 4249; 5641
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	3	1297; 1569; 3769
BmuI	!NNNNCCCAGT	2	289; 3521
BoxI	GACNN!NNGTC	1	1234
BpiI	GAAGACNN!	1	902
BpiI	!NNNNNNGTCTTC	1	1407
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	3	1534; 3609; 4508
BpI	!NNNNNNNNGAGNNNNNCTC	3	1502; 3577; 4476
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	2053; 4660
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	919; 4603
Bpu10I	CC!TNAGC	1	2324
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	4502
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	902
BpuAI	!NNNNNNGTCTTC	1	1407
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	5114; 5653
BpuEI	!NNNNNNNNNNNNNCTCAAG	3	1150; 4196; 5355
BpuMI	CC!SGG	7	1407; 1408; 1873; 3824; 3984; 4597; 5361

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	1222; 1693; 4809
Bsa29I	AT!CGAT	1	3660
BsaAI	YAC!GTR	3	340; 2936; 4124
BsaBI	GATNN!NNATC	4	2308; 2392; 2482; 3679
BsaHI	GR!CGYC	9	122; 175; 258; 444; 1178; 1434; 3820; 4522; 4601
BsaJI	C!CNNGG	33	360; 659; 689; 824; 825; 920; 1405; 1438; 1446; 1619; 1643; 1661; 1931; 1985; 2009; 2030; 2124; 2244; 2282; 3354; 3426; 3549; 3584; 3593; 3642; 3983; 4252; 4657; 4784; 4785; 4887; 4888; 5578
BsaMI	GAATGCN!	1	2571
BsaMI	G!CATTG	1	2664
BsaWI	W!CCGGW	7	1306; 1789; 2461; 3851; 4695; 5385; 5532
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	1378; 2900
BsaXI	!NNNNNNNGGAGNNNNNNNGT	1	1957
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	1987
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	1348; 2870
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	2	1733; 2237
BsbI	!NNNNNNNNNNNNNNNNNGTGTTG	2	2821; 4728
Bsc4I	CCNNNNN!NNGG	23	49; 712; 825; 1057; 1430; 1796; 1857; 2130; 2832; 3158; 3550; 3801; 4345; 4626; 4658; 4790; 4825; 4875; 4907; 5260; 5539; 5705; 5723
BscAI	GCATCNNNN!	11	838; 1522; 1555; 1783; 2152; 2635; 3398; 3470; 4118; 4182; 4457
BscAI	!NNNNNGATGC	9	360; 995; 1163; 1392; 2255; 3781; 4036; 4252; 5644
BseI	ACTGGN!	7	1205; 1292; 1564; 1776; 3764; 3965; 5211
BseI	C!CAGT	5	295; 2849; 3527; 5323; 5336
Bse8I	GATNN!NNATC	4	2308; 2392; 2482; 3679
Bse21I	CC!TNAGG	4	860; 2099; 3300; 4932
Bse118I	R!CCGGY	5	1381; 3037; 4139; 4320; 4603
BseAI	T!CCGGA	1	1306
BseBI	CC!WGG	28	90; 283; 778; 826; 922; 937; 1066; 1175; 1440; 1447; 1735; 1864; 1987; 2032; 2062; 2125; 2246; 2284; 2362; 3356; 3411; 3428; 4207; 4786; 4889; 5579; 5592; 5713
BseCI	AT!CGAT	1	3660
BseDI	C!CNNGG	33	360; 659; 689; 824; 825; 920; 1405; 1438; 1446; 1619; 1643; 1661; 1931; 1985; 2009; 2030; 2124; 2244; 2282; 3354; 3426; 3549; 3584; 3593; 3642; 3983; 4252; 4657; 4784; 4785; 4887; 4888; 5578
Bse3DI	GCAATGNN!	2	2085; 4053
Bse3DI	!CATTGC	2	2249; 2312
BseGI	GGATGNN!	6	1335; 2267; 3680; 4137; 4162; 4616
BseGI	!CATCC	10	685; 773; 830; 985; 1514; 1847; 2144; 2189; 2357; 3506
BseJI	GATNN!NNATC	4	2308; 2392; 2482; 3679
BseLI	CCNNNNN!NNGG	23	49; 712; 825; 1057; 1430; 1796; 1857; 2130; 2832; 3158; 3550; 3801; 4345; 4626; 4658; 4790; 4825; 4875; 4907; 5260; 5539; 5705; 5723
BseMI	GCAATGNN!	2	2085; 4053
BseMI	!CATTGC	2	2249; 2312
BseMII	CTCAGNNNNNNNNNN!	2	1326; 4946
BseMII	!NNNNNNNCTGAG	8	851; 2090; 2315; 3291; 3593; 4474; 5046; 5455
BseNI	ACTGGN!	7	1205; 1292; 1564; 1776; 3764; 3965; 5211
BseNI	C!CAGT	5	295; 2849; 3527; 5323; 5336
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1636; 3638
BseRI	!NNNNNNNCTCCTC	2	2016; 2309
BseSI	GKGC!C	8	658; 685; 718; 1295; 1817; 3766; 3859; 5428
BseXI	GCAGCNNNNNNNN!	8	812; 1254; 2608; 3893; 3935; 4456; 4909; 5409
BseXI	!NNNNNNNNNNNGCTGC	12	931; 1592; 1622; 2001; 2036; 2080; 3102; 3767; 3951; 4044; 5110; 5316
BseX3I	C!GGCCG	2	1934; 3726
BseYI	C!CCAGC	5	1713; 2290; 3363; 3435; 5434
BseYI	G!CTGGG	2	1022; 4324
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bsh1236I	CG!CG	19	60; 1345; 1390; 1673; 1913; 2708; 2744; 3120; 3140; 3164; 3195; 3886; 4187; 4625; 4709; 4772; 4841; 5114; 5695
Bsh1285I	CGRY!CG	4	599; 1937; 3729; 5404
BshFI	GG!CC	38	84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1381; 1411; 1498; 1648; 1666; 1763; 1871; 1936; 2008; 2060; 2365; 2423; 2786; 2928; 3583; 3589; 3598; 3641; 3728; 3902; 4293; 4320; 4829; 4886; 4919; 5264; 5698; 5716; 5727
BshNI	G!GYRCC	11	465; 655; 715; 1433; 1442; 1583; 2230; 2286; 2973; 3819; 3854
BshTI	A!CCGGT	0	
BshVI	AT!CGAT	1	3660
BsiEI	CGRY!CG	4	599; 1937; 3729; 5404
BsiHKAI	GWGCW!C	6	685; 1544; 1628; 3933; 4123; 5428
BsiHKCI	C!YCGRG	3	1319; 1406; 1618
BsiSI	C!CGG	24	1307; 1367; 1382; 1407; 1790; 1872; 2420; 2462; 3038; 3725; 3802; 3824; 3852; 3983; 4073; 4140; 4321; 4596; 4604; 4696; 5170; 5360; 5386; 5533
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	23	49; 712; 825; 1057; 1430; 1796; 1857; 2130; 2832; 3158; 3550; 3801; 4345; 4626; 4658; 4790; 4825; 4875; 4907; 5260; 5539; 5705; 5723
BsIFI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1576; 1888; 3971; 4503; 4612
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3336; 3408; 3472; 4767
BsmI	GAATGCN!	1	2571
BsmI	G!CATTC	1	2664
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	7	1033; 1222; 1693; 3244; 3662; 4681; 4809
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	1033
BsmFI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1576; 1888; 3971; 4503; 4612
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3336; 3408; 3472; 4767
BsnI	GG!CC	38	84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1381; 1411; 1498; 1648; 1666; 1763; 1871; 1936; 2008; 2060; 2365; 2423; 2786; 2928; 3583; 3589; 3598; 3641; 3728; 3902; 4293; 4320; 4829; 4886; 4919; 5264; 5698; 5716; 5727
Bso3II	GGTCTCN!	0	
Bso3II	!NNNNNGAGACC	3	1222; 1693; 4809
BsoBI	C!YCGRG	3	1319; 1406; 1618
Bsp13I	T!CCGGA	1	1306
Bsp19I	C!CATGG	3	360; 3549; 4252
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4623
Bsp24I	!NNNNNNCCANNNNNGTC	3	1839; 5044; 5222
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	3	1871; 5076; 5254
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4591
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4502
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	31	585; 965; 1115; 1141; 1315; 1688; 1898; 2273; 2303; 2309; 2345; 2393; 2455; 2464; 2477; 3657; 3661; 3680; 3991; 4069; 4150; 4159; 4237; 4613; 4629; 4988; 5000; 5078; 5086; 5097; 5172
Bsp1286I	GDGCH!C	15	658; 685; 718; 1295; 1544; 1628; 1817; 3011; 3766; 3859; 3933; 4123; 4185; 4895; 5428
Bsp1407I	T!GTACA	1	644
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 914; 1052; 1154; 1343; 1671; 2091; 2193; 2439; 3135; 3138; 3152; 3242; 3490; 3502; 3511; 3523; 3533; 3544; 3590; 3729; 3792; 4294; 4339; 4405; 4431; 4556; 4559; 4707; 4839; 5146; 5290; 5786
BspACI	G!CGG	33	370; 403; 528; 595; 749; 1061; 1103; 1390; 1913; 1941; 2085; 2228; 2351; 3080; 3107; 3195; 3305; 3886; 3950; 4051; 4054; 4334; 4389; 4487; 4625; 4772; 4912; 5155; 5400; 5521; 5540; 5667; 5695
BspCNI	CTCAGNNNNNNNN!	2	1325; 4945
BspCNI	!NNNNNNNCTGAG	8	852; 2091; 2316; 3292; 3594; 4475; 5047; 5456
BspDI	AT!CGAT	1	3660
BspD6I	GACTCNNNN!	6	418; 1318; 1794; 2893; 4499; 5376
BspD6I	!NNNNNGAGTC	5	874; 2127; 2409; 2856; 3288

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspEI	T!CCGGA	1	1306
BspFNI	CG!CG	19	60; 1345; 1390; 1673; 1913; 2708; 2744; 3120; 3140; 3164; 3195; 3886; 4187; 4625; 4709; 4772; 4841; 5114; 5695
BspHI	T!CATGA	4	1892; 2171; 3246; 5018
BspLI	GGN!NCC	30	467; 657; 717; 1108; 1365; 1435; 1444; 1585; 1616; 1649; 1876; 2089; 2232; 2288; 2355; 2424; 2457; 2975; 2996; 3008; 3199; 3360; 3432; 3821; 3856; 4704; 4783; 4828; 5671; 5710
BspMI	ACCTGCNNNN!	2	4088; 4538
BspMI	!NNNNNNNNGCAGGT	1	3707
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	11	2353; 2401; 2463; 2472; 3688; 3999; 4245; 4637; 4996; 5094; 5180
BspPI	!NNNNNGATCC	8	580; 1136; 1893; 2450; 4064; 4608; 4995; 5092
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	2032; 4164; 4374
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4502
BspT107I	G!GYRCC	11	465; 655; 715; 1433; 1442; 1583; 2230; 2286; 2973; 3819; 3854
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	1222; 1693; 4809
BsrI	ACTGGN!	7	1205; 1292; 1564; 1776; 3764; 3965; 5211
BsrI	C!CAGT	5	295; 2849; 3527; 5323; 5336
BsrBI	CCG!CTC	2	3244; 4433
BsrBI	GAG!CGG	4	1941; 2085; 3080; 4487
BsrDI	GCAATGNN!	2	2085; 4053
BsrDI	!CATTGC	2	2249; 2312
BsrFI	R!CCGGY	5	1381; 3037; 4139; 4320; 4603
BsrGI	T!GTACA	1	644
BsrSI	ACTGGN!	7	1205; 1292; 1564; 1776; 3764; 3965; 5211
BsrSI	C!CAGT	5	295; 2849; 3527; 5323; 5336
BssAI	R!CCGGY	5	1381; 3037; 4139; 4320; 4603
BssECI	C!CNNGG	33	360; 659; 689; 824; 825; 920; 1405; 1438; 1446; 1619; 1643; 1661; 1931; 1985; 2009; 2030; 2124; 2244; 2282; 3354; 3426; 3549; 3584; 3593; 3642; 3983; 4252; 4657; 4784; 4785; 4887; 4888; 5578
BssHII	G!CGCGC	0	
BssKI	!CCNNGG	35	88; 281; 776; 824; 920; 935; 1064; 1173; 1405; 1406; 1438; 1445; 1733; 1862; 1871; 1985; 2030; 2060; 2123; 2244; 2282; 2360; 3354; 3409; 3426; 3822; 3982; 4205; 4595; 4784; 4887; 5359; 5577; 5590; 5711
BssMI	!GATC	31	585; 965; 1115; 1141; 1315; 1688; 1898; 2273; 2303; 2309; 2345; 2393; 2455; 2464; 2477; 3657; 3661; 3680; 3991; 4069; 4150; 4159; 4237; 4613; 4629; 4988; 5000; 5078; 5086; 5097; 5172
BssNI	GR!CGYC	9	122; 175; 258; 444; 1178; 1434; 3820; 4522; 4601
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1246; 4538; 5565
BssSI	C!TCGTG	2	1096; 4412
BssTII	C!CWWGG	6	360; 1661; 3549; 3642; 4252; 4657
Bst6I	CTCTTCN!	1	2113
Bst6I	!NNNNGAAGAG	4	2032; 3287; 4164; 4374
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 1178; 1434; 3820; 4522; 4601
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	4	1632; 3387; 3459; 4921
BstAUI	T!GTACA	1	644
BstBI	TT!CGAA	1	4502
Bst2BI	C!ACGAG	3	1246; 4538; 5565
Bst2BI	C!TCGTG	2	1096; 4412
BstBAI	YAC!GTR	3	340; 2936; 4124
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 660; 1812; 2217; 2911; 4200; 4316; 4424; 4747; 5238; 5708; 5779
BstC8I	GCN!NGC	35	86; 279; 593; 613; 703; 907; 1383; 1392; 1869; 2401; 3039; 3082; 3096; 3369; 3388; 3441; 3460; 3714; 3900; 4119; 4185; 4191; 4219; 4223; 4264; 4268; 4322; 4605; 4792; 4839; 4895; 4917; 5128; 5688; 5725

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstDEI	C!TNAG	11	860; 1157; 1312; 2099; 2324; 3300; 3602; 4483; 4932; 5055; 5464
BstDSI	C!CRYGG	6	360; 659; 1931; 2009; 3549; 4252
BstEII	G!GTNACC	1	1800
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	6	1335; 2267; 3680; 4137; 4162; 4616
BstF5I	!CATCC	10	685; 773; 830; 985; 1514; 1847; 2144; 2189; 2357; 3506
BstFNI	CG!CG	19	60; 1345; 1390; 1673; 1913; 2708; 2744; 3120; 3140; 3164; 3195; 3886; 4187; 4625; 4709; 4772; 4841; 5114; 5695
BstH2I	RGCGC!Y	5	1437; 3087; 3095; 3823; 5498
BstHHI	GCG!C	24	1347; 1436; 1913; 2330; 3086; 3094; 3120; 3142; 3151; 3164; 3195; 3814; 3822; 3886; 3923; 4189; 4449; 4625; 4711; 5114; 5223; 5397; 5497; 5564
BstKTI	GAT!C	31	588; 968; 1118; 1144; 1318; 1691; 1901; 2276; 2306; 2312; 2348; 2396; 2458; 2467; 2480; 3660; 3664; 3683; 3994; 4072; 4153; 4162; 4240; 4616; 4632; 4991; 5003; 5081; 5089; 5100; 5175
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	7	1033; 1222; 1693; 3244; 3662; 4681; 4809
BstMBI	!GATC	31	585; 965; 1115; 1141; 1315; 1688; 1898; 2273; 2303; 2309; 2345; 2393; 2455; 2464; 2477; 3657; 3661; 3680; 3991; 4069; 4150; 4159; 4237; 4613; 4629; 4988; 5000; 5078; 5086; 5097; 5172
BstMCI	CGRY!CG	4	599; 1937; 3729; 5404
BstMWI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 639; 1070; 1382; 1408; 1440; 1511; 1632; 1735; 1919; 2014; 3047; 3077; 3104; 3146; 3387; 3459; 3510; 3589; 3811; 3895; 3918; 4057; 4180; 4263; 4530; 4717; 4921; 5120; 5692
BstNI	CC!WGG	28	90; 283; 778; 826; 922; 937; 1066; 1175; 1440; 1447; 1735; 1864; 1987; 2032; 2062; 2125; 2246; 2284; 2362; 3356; 3411; 3428; 4207; 4786; 4889; 5579; 5592; 5713
BstNSI	RCATG!Y	6	633; 1374; 3390; 3462; 4225; 5742
BstOI	CC!WGG	28	90; 283; 778; 826; 922; 937; 1066; 1175; 1440; 1447; 1735; 1864; 1987; 2032; 2062; 2125; 2246; 2284; 2362; 3356; 3411; 3428; 4207; 4786; 4889; 5579; 5592; 5713
BstPI	G!GTNACC	1	1800
BstPAI	GACNN!NNGTC	1	1234
BstSCI	!CCNGG	35	88; 281; 776; 824; 920; 935; 1064; 1173; 1405; 1406; 1438; 1445; 1733; 1862; 1871; 1985; 2030; 2060; 2123; 2244; 2282; 2360; 3354; 3409; 3426; 3822; 3982; 4205; 4595; 4784; 4887; 5359; 5577; 5590; 5711
BstSFI	C!TRYAG	5	1194; 1917; 3155; 5282; 5473
BstSLI	GKGC!C	8	658; 685; 718; 1295; 1817; 3766; 3859; 5428
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 1345; 1390; 1673; 1913; 2708; 2744; 3120; 3140; 3164; 3195; 3886; 4187; 4625; 4709; 4772; 4841; 5114; 5695
Bst2UI	CC!WGG	28	90; 283; 778; 826; 922; 937; 1066; 1175; 1440; 1447; 1735; 1864; 1987; 2032; 2062; 2125; 2246; 2284; 2362; 3356; 3411; 3428; 4207; 4786; 4889; 5579; 5592; 5713
BstV1I	GCAGCNNNNNNN!	8	812; 1254; 2608; 3893; 3935; 4456; 4909; 5409
BstV1I	!NNNNNNNNNNNGCTGC	12	931; 1592; 1622; 2001; 2036; 2080; 3102; 3767; 3951; 4044; 5110; 5316
BstV2I	GAAGACNN!	1	902
BstV2I	!NNNNNNGTCTTC	1	1407
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 1141; 1315; 1898; 2455; 2464; 3991; 4237; 4629; 4988; 5000; 5086; 5097
BstYI	R!GATCY	13	585; 1141; 1315; 1898; 2455; 2464; 3991; 4237; 4629; 4988; 5000; 5086; 5097
BstZI	C!GGCCG	2	1934; 3726
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3249; 4039; 5540
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3660
Bsu36I	CC!TNAGG	4	860; 2099; 3300; 4932



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsuRI	GG!CC	38	84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1381; 1411; 1498; 1648; 1666; 1763; 1871; 1936; 2008; 2060; 2365; 2423; 2786; 2928; 3583; 3589; 3598; 3641; 3728; 3902; 4293; 4320; 4829; 4886; 4919; 5264; 5698; 5716; 5727
BsuTUI	AT!CGAT	1	3660
BtgI	C!CRYGG	6	360; 659; 1931; 2009; 3549; 4252
BtgZI	GCGATGNNNNNNNNNN!	2	2937; 4272
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 4091; 4435
BthCI	GCNG!C	42	752; 803; 947; 1064; 1245; 1345; 1608; 1638; 1916; 2017; 2052; 2096; 2231; 2354; 2599; 3118; 3140; 3154; 3592; 3731; 3783; 3794; 3884; 3889; 3926; 3967; 4054; 4057; 4060; 4296; 4392; 4433; 4447; 4561; 4900; 4915; 5126; 5332; 5335; 5400; 5543; 5698
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	2184
BtsI	GCAGTGNN!	1	1262
BtsI	!CACTGC	2	2276; 2659
BtsCI	GGATGNN!	6	1335; 2267; 3680; 4137; 4162; 4616
BtsCI	!CATCC	10	685; 773; 830; 985; 1514; 1847; 2144; 2189; 2357; 3506
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4088; 4538
BveI	!NNNNNNNNNGCAGGT	1	3707
Cac8I	GCN!NGC	35	86; 279; 593; 613; 703; 907; 1383; 1392; 1869; 2401; 3039; 3082; 3096; 3369; 3388; 3441; 3460; 3714; 3900; 4119; 4185; 4191; 4219; 4223; 4264; 4268; 4322; 4605; 4792; 4839; 4895; 4917; 5128; 5688; 5725
CaiI	CAGNNN!CTG	3	1268; 4921; 5329
CciI	T!CATGA	4	1892; 2171; 3246; 5018
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	10	352; 1428; 1539; 1551; 1779; 2433; 4109; 4114; 4312; 4453
CdiI	C!GATG	3	1398; 2923; 4258
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5692
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3481; 3523
CelII	GC!TNAGC	0	
CfoI	GCG!C	24	1347; 1436; 1913; 2330; 3086; 3094; 3120; 3142; 3151; 3164; 3195; 3814; 3822; 3886; 3923; 4189; 4449; 4625; 4711; 5114; 5223; 5397; 5497; 5564
CfrI	Y!GGCCR	10	1259; 1761; 1869; 1934; 2006; 2058; 3726; 3900; 4291; 4318
Cfr9I	C!CCGGG	1	1406
Cfr10I	R!CCGGY	5	1381; 3037; 4139; 4320; 4603
Cfr13I	G!GNCC	17	83; 276; 751; 994; 1086; 1409; 1497; 1647; 1860; 1875; 2422; 2927; 4336; 4781; 4827; 4885; 4918
Cfr42I	CCGC!GG	0	
ChaI	GATC!	31	589; 969; 1119; 1145; 1319; 1692; 1902; 2277; 2307; 2313; 2349; 2397; 2459; 2468; 2481; 3661; 3665; 3684; 3995; 4073; 4154; 4163; 4241; 4617; 4633; 4992; 5004; 5082; 5090; 5101; 5176
CjeI	CCANNNNNGTNNNNNNNNNNNNNN!	7	1711; 1872; 2407; 3637; 5077; 5177; 5255
CjeI	!NNNNNNNNNACNNNNNTGG	8	64; 257; 2326; 3304; 3399; 4591; 5141; 5696
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	8	98; 291; 2360; 3338; 3433; 4625; 5175; 5730
CjeI	!NNNNNNNNCCANNNNNGT	7	1677; 1838; 2373; 3603; 5043; 5143; 5221
CjePI	CCANNNNNNNTCNNNNNNNNNNNN!	3	1872; 5077; 5255
CjePI	!NNNNNNNNGANNNNNNTGG	6	257; 722; 1067; 1564; 4591; 5190
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	6	290; 755; 1100; 1597; 4624; 5223
CjePI	!NNNNNNNNCCANNNNNNNTC	3	1839; 5044; 5222
Clai	AT!CGAT	1	3660
CpoI	CG!GWCCG	1	4336
CseI	GACGCNNNNN!	4	526; 1050; 4530; 4609
CseI	!NNNNNNNNNGCGTC	5	1167; 1843; 3153; 5048; 5626
CsiI	A!CCWGGT	1	3409
CspI	CG!GWCCG	1	4336
Csp6I	G!TAC	16	218; 243; 298; 331; 382; 539; 645; 1047; 1530; 1722; 1752; 1766; 2205; 2241; 2334; 4125
Csp45I	TT!CGAA	1	4502
CspAI	A!CCGGT	0	
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	6	647; 1238; 1988; 2294; 3100; 4709
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	32	301; 361; 606; 630; 636; 648; 726; 872; 1083; 1371; 1464; 1569; 1692; 1719; 1843; 1893; 2130; 2172; 2238; 3247; 3387; 3459; 3550; 3691; 4036; 4222; 4253; 4279; 4635; 5019; 5739; 5790
CviJI	RG!CY	119	42; 84; 93; 277; 566; 615; 642; 705; 752; 781; 788; 866; 932; 944; 995; 1022; 1030; 1064; 1087; 1095; 1109; 1219; 1261; 1299; 1324; 1364; 1381; 1385; 1411; 1498; 1605; 1615; 1648; 1666; 1717; 1738; 1763; 1867; 1871; 1916; 1922; 1936; 1971; 2008; 2014; 2024; 2042; 2049; 2060; 2115; 2354; 2365; 2423; 2489; 2599; 2766; 2786; 2928; 3009; 3023; 3037; 3318; 3359; 3431; 3554; 3583; 3589; 3598; 3606; 3629; 3641; 3647; 3728; 3745; 3753; 3780; 3805; 3889; 3898; 3902; 3926; 3964; 4040; 4057; 4076; 4139; 4183; 4193; 4210; 4293; 4320; 4324; 4361; 4384; 4400; 4580; 4607; 4668; 4790; 4829; 4886; 4893; 4900; 4919; 4930; 5181; 5210; 5253; 5264; 5329; 5408; 5433; 5438; 5484; 5574; 5672; 5698; 5716; 5727
CviKI-1	RG!CY	119	42; 84; 93; 277; 566; 615; 642; 705; 752; 781; 788; 866; 932; 944; 995; 1022; 1030; 1064; 1087; 1095; 1109; 1219; 1261; 1299; 1324; 1364; 1381; 1385; 1411; 1498; 1605; 1615; 1648; 1666; 1717; 1738; 1763; 1867; 1871; 1916; 1922; 1936; 1971; 2008; 2014; 2024; 2042; 2049; 2060; 2115; 2354; 2365; 2423; 2489; 2599; 2766; 2786; 2928; 3009; 3023; 3037; 3318; 3359; 3431; 3554; 3583; 3589; 3598; 3606; 3629; 3641; 3647; 3728; 3745; 3753; 3780; 3805; 3889; 3898; 3902; 3926; 3964; 4040; 4057; 4076; 4139; 4183; 4193; 4210; 4293; 4320; 4324; 4361; 4384; 4400; 4580; 4607; 4668; 4790; 4829; 4886; 4893; 4900; 4919; 4930; 5181; 5210; 5253; 5264; 5329; 5408; 5433; 5438; 5484; 5574; 5672; 5698; 5716; 5727
CviQI	G!TAC	16	218; 243; 298; 331; 382; 539; 645; 1047; 1530; 1722; 1752; 1766; 2205; 2241; 2334; 4125
DdeI	C!TNAG	11	860; 1157; 1312; 2099; 2324; 3300; 3602; 4483; 4932; 5055; 5464
DinI	GGC!GCC	2	1435; 3821
DpnI	GA!TC	31	587; 967; 1117; 1143; 1317; 1690; 1900; 2275; 2305; 2311; 2347; 2395; 2457; 2466; 2479; 3659; 3663; 3682; 3993; 4071; 4152; 4161; 4239; 4615; 4631; 4990; 5002; 5080; 5088; 5099; 5174
DpnII	!GATC	31	585; 965; 1115; 1141; 1315; 1688; 1898; 2273; 2303; 2309; 2345; 2393; 2455; 2464; 2477; 3657; 3661; 3680; 3991; 4069; 4150; 4159; 4237; 4613; 4629; 4988; 5000; 5078; 5086; 5097; 5172
DraI	TTT!AAA	3	2522; 4964; 4983
DraII	RG!GNCCY	3	1647; 1875; 4918
DraIII	CACNNN!GTG	4	1251; 1632; 1812; 2936
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 2357; 5300
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	4	2062; 2891; 3847; 5636
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	2062; 2891; 3847; 5636
EaeI	Y!GGCCR	10	1259; 1761; 1869; 1934; 2006; 2058; 3726; 3900; 4291; 4318
EagI	C!GGCCG	2	1934; 3726
Eam1104I	CTCTCN!	1	2113
Eam1104I	!NNNNGAAGAG	4	2032; 3287; 4164; 4374
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	1	2113
EarI	!NNNNGAAGAG	4	2032; 3287; 4164; 4374
EciI	GGCGGANNNNNNNNNNNN!	4	3320; 4349; 5536; 5682
EciI	!NNNNNNNNNTCCGCC	4	496; 3491; 3512; 3533
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	2	1934; 3726
Eco24I	GRGCY!C	3	3011; 4185; 4895
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	3	1222; 1693; 4809

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco32I	GAT!ATC	1	1338
Eco47I	G!GWCC	4	1860; 1875; 4336; 4781
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	2	1934; 3726
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	1111; 1546; 3966; 4398
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	5196
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	4	860; 2099; 3300; 4932
Eco88I	C!YCGRG	3	1319; 1406; 1618
Eco91I	G!GTNACC	1	1800
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 1661; 3549; 3642; 4252; 4657
Eco147I	AGG!CCT	2	1030; 3641
EcoHI	!CCSGG	7	1405; 1406; 1871; 3822; 3982; 4595; 5359
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	6	1111; 1546; 2053; 3966; 4398; 4660
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	919; 4603; 5196
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	1	1800
Eco0109I	RG!GNCCY	3	1647; 1875; 4918
EcoRI	G!AATC	0	
EcoRII	!CCWGG	28	88; 281; 776; 824; 920; 935; 1064; 1173; 1438; 1445; 1733; 1862; 1985; 2030; 2060; 2123; 2244; 2282; 2360; 3354; 3409; 3426; 4205; 4784; 4887; 5577; 5590; 5711
EcoRV	GAT!ATC	1	1338
EcoT14I	C!CWWGG	6	360; 1661; 3549; 3642; 4252; 4657
EcoT22I	ATGCA!T	3	3392; 3464; 5795
EcoT38I	GRGCY!C	3	3011; 4185; 4895
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	2	1435; 3821
EheI	GGC!GCC	2	1435; 3821
ErhI	C!CWWGG	6	360; 1661; 3549; 3642; 4252; 4657
EsaBC3I	TC!GA	18	744; 771; 1239; 1321; 1356; 1539; 1995; 2970; 3661; 3934; 4090; 4114; 4150; 4312; 4503; 4548; 4803; 5641
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	1	1033
FaeI	CATG!	32	304; 364; 609; 633; 639; 651; 729; 875; 1086; 1374; 1467; 1572; 1695; 1722; 1846; 1896; 2133; 2175; 2241; 3250; 3390; 3462; 3553; 3694; 4039; 4225; 4256; 4282; 4638; 5022; 5742; 5793
Fail	YA!TR	76	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 607; 631; 637; 649; 727; 873; 891; 1084; 1137; 1139; 1187; 1327; 1372; 1465; 1484; 1570; 1693; 1720; 1832; 1844; 1894; 2131; 2173; 2239; 2411; 2482; 2492; 2558; 2603; 2808; 3236; 3248; 3379; 3388; 3451; 3460; 3484; 3551; 3575; 3692; 3756; 4037; 4062; 4223; 4254; 4280; 4352; 4568; 4636; 4714; 4766; 4927; 4944; 4946; 4948; 5020; 5298; 5487; 5603; 5676; 5740; 5791
FalI	AAGNNNNNCTNNNNNNNNNNNN!	3	870; 1401; 4160
FalI	!NNNNNNNNAAGNNNNNCTT	3	838; 1369; 4128
FaqI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1576; 1888; 3971; 4503; 4612
FaqI	!NNNNNNNNNNNNNGTCCC	4	3336; 3408; 3472; 4767
FatI	!CATG	32	300; 360; 605; 629; 635; 647; 725; 871; 1082; 1370; 1463; 1568; 1691; 1718; 1842; 1892; 2129; 2171; 2237; 3246; 3386; 3458; 3549; 3690; 4035; 4221; 4252; 4278; 4634; 5018; 5738; 5789
FauI	CCCGCNNNN!	10	93; 119; 286; 1059; 1161; 3142; 3497; 3518; 4714; 4846
FauI	!NNNNNNGCGGG	8	1096; 1383; 1934; 3073; 3943; 4480; 4618; 4765
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2477
FblI	GT!MKAC	2	1181; 1355
FmuI	GGNC!C	17	86; 279; 754; 997; 1089; 1412; 1500; 1650; 1863; 1878; 2425; 2930; 4339; 4784; 4830; 4888; 4921

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	42	750; 801; 945; 1062; 1243; 1343; 1606; 1636; 1914; 2015; 2050; 2094; 2229; 2352; 2597; 3116; 3138; 3152; 3590; 3729; 3781; 3792; 3882; 3887; 3924; 3965; 4052; 4055; 4058; 4294; 4390; 4431; 4445; 4559; 4898; 4913; 5124; 5330; 5333; 5398; 5541; 5696
FokI	GGATGNNNNNNNNNN!	6	1342; 2274; 3687; 4144; 4169; 4623
FokI	!NNNNNNNNNNNNNNCATCC	10	672; 760; 817; 972; 1501; 1834; 2131; 2176; 2344; 3493
FriOI	GRGCY!C	3	3011; 4185; 4895
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3922
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	11	592; 785; 1280; 2451; 2468; 2669; 3087; 3643; 4658; 4992; 5245
FspEI	CCNNNNNNNNNNNN!	204	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 615; 672; 702; 719; 733; 766; 780; 805; 822; 837; 867; 900; 927; 942; 961; 1002; 1044; 1063; 1078; 1101; 1123; 1146; 1166; 1187; 1233; 1275; 1291; 1320; 1356; 1380; 1395; 1416; 1432; 1450; 1494; 1512; 1531; 1546; 1569; 1600; 1631; 1656; 1672; 1698; 1716; 1731; 1747; 1761; 1777; 1803; 1818; 1848; 1864; 1885; 1903; 1920; 1941; 1998; 2022; 2040; 2066; 2085; 2104; 2125; 2151; 2172; 2206; 2223; 2247; 2268; 2295; 2333; 2352; 2370; 2388; 2433; 2449; 2472; 2503; 2542; 2556; 2697; 2792; 2816; 2839; 2862; 2880; 2902; 2923; 2942; 2961; 2990; 3011; 3025; 3051; 3139; 3165; 3214; 3255; 3273; 3312; 3328; 3366; 3423; 3438; 3495; 3515; 3529; 3546; 3560; 3597; 3612; 3655; 3738; 3805; 3836; 3856; 3871; 3916; 3930; 3996; 4010; 4029; 4045; 4086; 4106; 4153; 4203; 4219; 4239; 4264; 4284; 4307; 4334; 4352; 4378; 4418; 4444; 4468; 4524; 4538; 4566; 4609; 4630; 4665; 4709; 4797; 4821; 4843; 4863; 4879; 4900; 4914; 4933; 5017; 5037; 5065; 5080; 5114; 5156; 5183; 5198; 5243; 5267; 5281; 5303; 5329; 5349; 5373; 5399; 5447; 5466; 5485; 5511; 5546; 5591; 5621; 5635; 5686; 5700; 5725; 5741; 5762; 5791
FspEI	!NNNNNNNNNNNNNNNNGG	164	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 580; 607; 634; 676; 697; 721; 763; 782; 811; 847; 884; 907; 926; 956; 977; 1004; 1043; 1069; 1088; 1160; 1186; 1234; 1273; 1292; 1312; 1346; 1367; 1392; 1414; 1432; 1450; 1471; 1496; 1529; 1555; 1597; 1630; 1648; 1720; 1745; 1768; 1810; 1843; 1898; 1918; 1948; 1972; 1990; 2017; 2042; 2060; 2086; 2110; 2170; 2210; 2231; 2254; 2328; 2347; 2376; 2405; 2437; 2491; 2591; 2660; 2768; 2817; 2839; 2867; 2903; 2948; 2977; 3013; 3032; 3060; 3080; 3143; 3166; 3274; 3306; 3324; 3353; 3396; 3425; 3536; 3565; 3608; 3629; 3657; 3690; 3710; 3735; 3762; 3787; 3809; 3837; 3863; 3884; 3935; 3956; 3974; 4022; 4058; 4114; 4139; 4163; 4192; 4215; 4239; 4265; 4287; 4306; 4331; 4371; 4407; 4472; 4557; 4581; 4610; 4644; 4665; 4685; 4730; 4757; 4776; 4809; 4861; 4892; 4919; 4971; 5069; 5140; 5185; 5246; 5311; 5345; 5371; 5389; 5425; 5495; 5518; 5540; 5564; 5597; 5645; 5680; 5698; 5755
Fsp4HI	GC!NGC	42	750; 801; 945; 1062; 1243; 1343; 1606; 1636; 1914; 2015; 2050; 2094; 2229; 2352; 2597; 3116; 3138; 3152; 3590; 3729; 3781; 3792; 3882; 3887; 3924; 3965; 4052; 4055; 4058; 4294; 4390; 4431; 4445; 4559; 4898; 4913; 5124; 5330; 5333; 5398; 5541; 5696
GdiII	C!GGCCR	3	1934; 2058; 3726
GdiII	Y!GGCCG	6	1761; 1869; 1934; 3726; 4291; 4318
GlaI	GC!GC	24	1346; 1435; 1912; 2329; 3085; 3093; 3119; 3141; 3150; 3163; 3194; 3813; 3821; 3885; 3922; 4188; 4448; 4624; 4710; 5113; 5222; 5396; 5496; 5563
GluI	GC!NGC	42	750; 801; 945; 1062; 1243; 1343; 1606; 1636; 1914; 2015; 2050; 2094; 2229; 2352; 2597; 3116; 3138; 3152; 3590; 3729; 3781; 3792; 3882; 3887; 3924; 3965; 4052; 4055; 4058; 4294; 4390; 4431; 4445; 4559; 4898; 4913; 5124; 5330; 5333; 5398; 5541; 5696
GsaI	CCCAG!C	5	1717; 2294; 3367; 3439; 5438
GsaI	GCTGG!G	2	1026; 4328
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	2	2053; 4660
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	919; 4603
HaeI	WGG!CCW	11	1030; 1219; 1261; 1666; 2008; 2365; 3641; 3902; 5264; 5716; 5727
HaeII	RGCGC!Y	5	1437; 3087; 3095; 3823; 5498

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIII	GG!CC	38	84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1381; 1411; 1498; 1648; 1666; 1763; 1871; 1936; 2008; 2060; 2365; 2423; 2786; 2928; 3583; 3589; 3598; 3641; 3728; 3902; 4293; 4320; 4829; 4886; 4919; 5264; 5698; 5716; 5727
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2495; 4016
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2461; 3982
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2494; 4015
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2463; 3984
HapII	C!CGG	24	1307; 1367; 1382; 1407; 1790; 1872; 2420; 2462; 3038; 3725; 3802; 3824; 3852; 3983; 4073; 4140; 4321; 4596; 4604; 4696; 5170; 5360; 5386; 5533
HgaI	GACGCNNNNN!	4	526; 1050; 4530; 4609
HgaI	!NNNNNNNNNNNGCGTC	5	1167; 1843; 3153; 5048; 5626
HhaI	GCG!C	24	1347; 1436; 1913; 2330; 3086; 3094; 3120; 3142; 3151; 3164; 3195; 3814; 3822; 3886; 3923; 4189; 4449; 4625; 4711; 5114; 5223; 5397; 5497; 5564
HinI	GR!CGYC	9	122; 175; 258; 444; 1178; 1434; 3820; 4522; 4601
Hin1II	CATG!	32	304; 364; 609; 633; 639; 651; 729; 875; 1086; 1374; 1467; 1572; 1695; 1722; 1846; 1896; 2133; 2175; 2241; 3250; 3390; 3462; 3553; 3694; 4039; 4225; 4256; 4282; 4638; 5022; 5742; 5793
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	4	1380; 2333; 2494; 4015
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	2462; 3983; 4013
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	2494; 4015; 4045
Hin4I	!NNNNNNNNNGAYNNNNNVTC	4	1348; 2301; 2462; 3983
Hin6I	G!CGC	24	1345; 1434; 1911; 2328; 3084; 3092; 3118; 3140; 3149; 3162; 3193; 3812; 3820; 3884; 3921; 4187; 4447; 4623; 4709; 5112; 5221; 5395; 5495; 5562
HinP1I	G!CGC	24	1345; 1434; 1911; 2328; 3084; 3092; 3118; 3140; 3149; 3162; 3193; 3812; 3820; 3884; 3921; 4187; 4447; 4623; 4709; 5112; 5221; 5395; 5495; 5562
HincII	GTY!RAC	2	1356; 2583
HindII	GTY!RAC	2	1356; 2583
HindIII	A!AGCTT	1	1297
HinfI	G!ANTC	19	410; 731; 881; 1208; 1310; 1477; 1786; 2134; 2416; 2863; 2885; 3295; 4305; 4439; 4491; 4549; 4586; 5368; 5764
HpaI	GTT!AAC	1	2583
HpaII	C!CGG	24	1307; 1367; 1382; 1407; 1790; 1872; 2420; 2462; 3038; 3725; 3802; 3824; 3852; 3983; 4073; 4140; 4321; 4596; 4604; 4696; 5170; 5360; 5386; 5533
HphI	GGTGANNNNNNNN!	5	376; 987; 1804; 4891; 5007
HphI	!NNNNNNNTCACC	10	876; 1026; 1512; 1545; 1794; 1896; 1917; 2061; 2937; 3998
Hpy8I	GTN!NAC	17	201; 539; 577; 663; 683; 978; 1182; 1191; 1356; 2187; 2375; 2436; 2583; 2867; 2884; 2939; 5426
Hpy99I	CGWCG!	13	1240; 1354; 1357; 1399; 1495; 1984; 3910; 3938; 4232; 4247; 4524; 4909; 5642
Hpy166II	GTN!NAC	17	201; 539; 577; 663; 683; 978; 1182; 1191; 1356; 2187; 2375; 2436; 2583; 2867; 2884; 2939; 5426
Hpy188I	TCN!GA	16	585; 690; 970; 1115; 1315; 1472; 2994; 3603; 3787; 4131; 4484; 4585; 5064; 5198; 5551; 5629
Hpy188III	TC!NNGA	32	963; 1128; 1167; 1307; 1319; 1618; 1779; 1858; 1893; 2172; 2307; 2323; 2468; 3247; 3299; 3612; 3665; 3838; 4154; 4163; 4246; 4302; 4346; 4436; 4469; 4538; 5019; 5093; 5176; 5274; 5372; 5506
HpyAV	CCTTCNNNNNN!	12	771; 819; 864; 1041; 1602; 1713; 2126; 2169; 2388; 4465; 4572; 5251
HpyAV	!NNNNNGAAGG	11	691; 1063; 1467; 2262; 3053; 3948; 4677; 4693; 4876; 5193; 5503
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 660; 1812; 2217; 2911; 4200; 4316; 4424; 4747; 5238; 5708; 5779
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 959; 1235; 1724; 1979; 2183; 2880; 2892; 2935; 3045; 3936; 4123; 4904; 5037
HpyCH4V	TG!CA	21	633; 683; 1005; 1376; 2265; 2569; 2596; 2664; 3381; 3390; 3453; 3462; 3577; 3653; 3712; 3871; 4046; 4060; 5130; 5426; 5793
HpyF3I	C!TNAG	11	860; 1157; 1312; 2099; 2324; 3300; 3602; 4483; 4932; 5055; 5464

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HpyF10VI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 639; 1070; 1382; 1408; 1440; 1511; 1632; 1735; 1919; 2014; 3047; 3077; 3104; 3146; 3387; 3459; 3510; 3589; 3811; 3895; 3918; 4057; 4180; 4263; 4530; 4717; 4921; 5120; 5692
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 1178; 1434; 3820; 4522; 4601
Hsp92II	CATG!	32	304; 364; 609; 633; 639; 651; 729; 875; 1086; 1374; 1467; 1572; 1695; 1722; 1846; 1896; 2133; 2175; 2241; 3250; 3390; 3462; 3553; 3694; 4039; 4225; 4256; 4282; 4638; 5022; 5742; 5793
HspAI	G!CGC	24	1345; 1434; 1911; 2328; 3084; 3092; 3118; 3140; 3149; 3162; 3193; 3812; 3820; 3884; 3921; 4187; 4447; 4623; 4709; 5112; 5221; 5395; 5495; 5562
KasI	G!GCGCC	2	1433; 3819
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1306
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	2477
KspAI	GTT!AAC	1	2583
Kzo9I	!GATC	31	585; 965; 1115; 1141; 1315; 1688; 1898; 2273; 2303; 2309; 2345; 2393; 2455; 2464; 2477; 3657; 3661; 3680; 3991; 4069; 4150; 4159; 4237; 4613; 4629; 4988; 5000; 5078; 5086; 5097; 5172
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	2032; 4164; 4374
LpnI	RGCI!GCY	5	1435; 3085; 3093; 3821; 5496
LpnPI	CCDGNNNNNNNNN!	86	102; 295; 733; 790; 838; 872; 934; 949; 1010; 1078; 1102; 1187; 1275; 1320; 1380; 1395; 1420; 1452; 1513; 1537; 1666; 1699; 1727; 1747; 1762; 1803; 1864; 1885; 1999; 2034; 2066; 2111; 2125; 2151; 2215; 2258; 2296; 2336; 2374; 2395; 2433; 2475; 2557; 2862; 3051; 3274; 3312; 3328; 3368; 3423; 3440; 3540; 3625; 3738; 3815; 3837; 3860; 3996; 4010; 4029; 4086; 4153; 4203; 4219; 4276; 4334; 4543; 4609; 4633; 4709; 4798; 4901; 4934; 5165; 5183; 5329; 5349; 5373; 5399; 5448; 5546; 5591; 5621; 5700; 5725; 5762
LpnPI	!NNNNNNNNNNNNNCHGG	72	75; 268; 552; 763; 811; 907; 1008; 1051; 1160; 1186; 1273; 1292; 1352; 1392; 1425; 1545; 1566; 1720; 1745; 1775; 1843; 1972; 2017; 2047; 2110; 2210; 2231; 2269; 2347; 2389; 2447; 2903; 3023; 3080; 3143; 3341; 3353; 3413; 3425; 3657; 3702; 3745; 3787; 3809; 3837; 3884; 3946; 3968; 4058; 4125; 4148; 4192; 4287; 4306; 4331; 4480; 4581; 4624; 4681; 4771; 4874; 4901; 4919; 5155; 5192; 5345; 5371; 5511; 5529; 5564; 5645; 5698
Lsp1109I	GCAGCNNNNNNNN!	8	812; 1254; 2608; 3893; 3935; 4456; 4909; 5409
Lsp1109I	!NNNNNNNNNNNGCTGC	12	931; 1592; 1622; 2001; 2036; 2080; 3102; 3767; 3951; 4044; 5110; 5316
LweI	GCATCNNNNN!	11	839; 1523; 1556; 1784; 2153; 2636; 3399; 3471; 4119; 4183; 4458
LweI	!NNNNNNNNNGATGC	9	357; 992; 1160; 1389; 2252; 3778; 4033; 4249; 5641
MabI	A!CCWGGT	1	3409
MaeI	C!TAG	11	592; 785; 1280; 2451; 2468; 2669; 3087; 3643; 4658; 4992; 5245
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 959; 1235; 1724; 1979; 2183; 2880; 2892; 2935; 3045; 3936; 4123; 4904; 5037
MaeIII	!GTNAC	18	61; 148; 497; 882; 1551; 1792; 1800; 1954; 2179; 2608; 3109; 3121; 3940; 4246; 4936; 5202; 5318; 5381
MalI	GA!TC	31	587; 967; 1117; 1143; 1317; 1690; 1900; 2275; 2305; 2311; 2347; 2395; 2457; 2466; 2479; 3659; 3663; 3682; 3993; 4071; 4152; 4161; 4239; 4615; 4631; 4990; 5002; 5080; 5088; 5099; 5174
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3244; 4433
MbiI	GAG!CGG	4	1941; 2085; 3080; 4487
MboI	!GATC	31	585; 965; 1115; 1141; 1315; 1688; 1898; 2273; 2303; 2309; 2345; 2393; 2455; 2464; 2477; 3657; 3661; 3680; 3991; 4069; 4150; 4159; 4237; 4613; 4629; 4988; 5000; 5078; 5086; 5097; 5172

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MboII	GAAGANNNNNNNN!	11	907; 1020; 1689; 1908; 2049; 2313; 3076; 3304; 4181; 4391; 5010
MboII	!NNNNNNNTCTTC	7	834; 1407; 2100; 4471; 4638; 4838; 5081
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2570
MflI	R!GATCY	13	585; 1141; 1315; 1898; 2455; 2464; 3991; 4237; 4629; 4988; 5000; 5086; 5097
MhII	GDGCH!C	15	658; 685; 718; 1295; 1544; 1628; 1817; 3011; 3766; 3859; 3933; 4123; 4185; 4895; 5428
MIsI	TGG!CCA	3	1261; 2008; 3902
MluI	A!CGCGT	1	2706
MluNI	TGG!CCA	3	1261; 2008; 3902
MlyI	GAGTCNNNNN!	5	890; 2143; 2425; 2872; 3304
MlyI	!NNNNNGACTC	6	404; 1304; 1780; 2879; 4485; 5362
Mly113I	GG!CGCC	2	1434; 3820
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1013; 2913
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	5345; 5529
MnII	CCTCNNNNNNN!	23	764; 802; 943; 958; 1174; 1285; 1431; 1528; 1767; 1846; 1900; 1912; 2037; 2330; 2376; 2436; 2539; 3603; 4421; 4627; 4941; 5311; 5635
MnII	!NNNNNNGAGG	28	541; 645; 684; 705; 738; 855; 964; 1020; 1209; 1242; 1488; 1504; 1614; 1638; 1818; 2094; 2499; 2964; 3295; 3573; 3616; 3631; 3671; 3735; 3871; 4228; 4658; 5561
Mph1103I	ATGCA!T	3	3392; 3464; 5795
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1306
MroNI	G!CCGGC	4	1381; 3037; 4320; 4603
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	3	1261; 2008; 3902
MseI	T!TAA	18	7; 620; 1301; 1961; 2521; 2582; 2703; 2724; 2735; 2747; 2758; 2775; 2873; 3144; 4963; 4977; 4982; 5034
MslI	CAYNN!NNRTG	5	365; 634; 1780; 2236; 4257
MspI	C!CGG	24	1307; 1367; 1382; 1407; 1790; 1872; 2420; 2462; 3038; 3725; 3802; 3824; 3852; 3983; 4073; 4140; 4321; 4596; 4604; 4696; 5170; 5360; 5386; 5533
Msp20I	TGG!CCA	3	1261; 2008; 3902
MspA1I	CMG!CKG	6	1054; 2093; 3318; 3926; 5155; 5400
MspCI	C!TTAAG	0	
MspJI	CNNRRNNNNNNNNN!	296	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; 618; 642; 660; 690; 708; 723; 738; 756; 789; 816; 832; 847; 871; 884; 900; 918; 932; 948; 961; 975; 996; 1009; 1030; 1049; 1063; 1077; 1095; 1108; 1126; 1140; 1157; 1177; 1209; 1224; 1239; 1258; 1274; 1291; 1306; 1319; 1333; 1356; 1379; 1394; 1418; 1440; 1458; 1476; 1493; 1506; 1531; 1546; 1568; 1581; 1600; 1621; 1642; 1655; 1672; 1686; 1699; 1725; 1746; 1761; 1777; 1791; 1809; 1828; 1853; 1870; 1884; 1903; 1919; 1944; 1962; 1998; 2011; 2033; 2058; 2073; 2110; 2124; 2137; 2150; 2163; 2184; 2206; 2222; 2237; 2250; 2267; 2295; 2319; 2335; 2352; 2373; 2394; 2412; 2427; 2452; 2474; 2488; 2503; 2527; 2544; 2557; 2598; 2612; 2625; 2643; 2681; 2696; 2714; 2755; 2779; 2799; 2817; 2838; 2861; 2893; 2908; 2930; 2948; 2961; 2982; 2999; 3012; 3025; 3041; 3054; 3084; 3099; 3124; 3142; 3155; 3170; 3194; 3208; 3232; 3257; 3273; 3311; 3327; 3366; 3380; 3394; 3422; 3438; 3452; 3466; 3495; 3508; 3529; 3538; 3560; 3590; 3606; 3624; 3654; 3677; 3701; 3725; 3744; 3772; 3798; 3814; 3827; 3850; 3864; 3884; 3897; 3911; 3930; 3944; 3957; 3973; 3988; 4001; 4017; 4032; 4048; 4073; 4092; 4108; 4121; 4134; 4152; 4166; 4180; 4196; 4218; 4234; 4253; 4275; 4291; 4314; 4333; 4347; 4363; 4377; 4397; 4413; 4426; 4448; 4481; 4495; 4515; 4528; 4542; 4596; 4609; 4632; 4645; 4664; 4681; 4708; 4744; 4777; 4796; 4821; 4842; 4869; 4882; 4899; 4913; 4928; 4944; 5004; 5029; 5045; 5067; 5080; 5094; 5125; 5139; 5164; 5182; 5197; 5210; 5229; 5242; 5257; 5286; 5305; 5323; 5348; 5363; 5382; 5398; 5417; 5435; 5451; 5465; 5484; 5511; 5534; 5556; 5575; 5590; 5603; 5620; 5640; 5667; 5680; 5699; 5724; 5747; 5761; 5774; 5791

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNYNG	250	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 592; 616; 634; 664; 688; 706; 730; 749; 771; 790; 811; 832; 858; 878; 907; 949; 983; 1004; 1024; 1051; 1069; 1086; 1114; 1132; 1153; 1172; 1198; 1220; 1248; 1266; 1292; 1312; 1330; 1352; 1373; 1392; 1414; 1432; 1450; 1469; 1486; 1510; 1529; 1546; 1566; 1588; 1606; 1630; 1648; 1672; 1700; 1720; 1739; 1758; 1775; 1798; 1817; 1837; 1854; 1879; 1898; 1918; 1936; 1959; 1979; 1996; 2017; 2039; 2061; 2084; 2110; 2135; 2158; 2178; 2210; 2231; 2269; 2293; 2311; 2328; 2347; 2368; 2386; 2405; 2437; 2454; 2472; 2501; 2530; 2572; 2655; 2693; 2717; 2740; 2769; 2813; 2835; 2867; 2903; 2920; 2941; 2978; 2998; 3015; 3032; 3067; 3085; 3103; 3120; 3144; 3166; 3193; 3221; 3247; 3285; 3306; 3323; 3341; 3364; 3385; 3413; 3436; 3457; 3475; 3496; 3513; 3536; 3560; 3580; 3598; 3620; 3651; 3673; 3699; 3718; 3735; 3763; 3782; 3801; 3819; 3837; 3858; 3880; 3904; 3937; 3957; 3975; 3996; 4022; 4049; 4066; 4083; 4100; 4126; 4148; 4170; 4188; 4208; 4227; 4249; 4287; 4307; 4331; 4351; 4371; 4398; 4422; 4455; 4474; 4502; 4524; 4553; 4581; 4606; 4625; 4644; 4665; 4682; 4699; 4730; 4757; 4777; 4800; 4820; 4857; 4874; 4893; 4919; 4939; 4978; 5005; 5024; 5042; 5079; 5097; 5138; 5156; 5182; 5199; 5231; 5260; 5288; 5309; 5332; 5351; 5372; 5390; 5407; 5425; 5451; 5472; 5492; 5512; 5530; 5551; 5577; 5594; 5613; 5632; 5661; 5680; 5698; 5717; 5735; 5753; 5776
MspR9I	CC!NGG	35	90; 283; 778; 826; 922; 937; 1066; 1175; 1407; 1408; 1440; 1447; 1735; 1864; 1873; 1987; 2032; 2062; 2125; 2246; 2284; 2362; 3356; 3411; 3428; 3824; 3984; 4207; 4597; 4786; 4889; 5361; 5579; 5592; 5713
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	2570
MvaI	CC!WGG	28	90; 283; 778; 826; 922; 937; 1066; 1175; 1440; 1447; 1735; 1864; 1987; 2032; 2062; 2125; 2246; 2284; 2362; 3356; 3411; 3428; 4207; 4786; 4889; 5579; 5592; 5713
Mva1269I	GAATGCN!	1	2571
Mva1269I	G!CATTC	1	2664
MvnI	CG!CG	19	60; 1345; 1390; 1673; 1913; 2708; 2744; 3120; 3140; 3164; 3195; 3886; 4187; 4625; 4709; 4772; 4841; 5114; 5695
MvrI	CGAT!CG	0	
MwoI	GCNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 639; 1070; 1382; 1408; 1440; 1511; 1632; 1735; 1919; 2014; 3047; 3077; 3104; 3146; 3387; 3459; 3510; 3589; 3811; 3895; 3918; 4057; 4180; 4263; 4530; 4717; 4921; 5120; 5692
NaeI	GCC!GGC	4	1383; 3039; 4322; 4605
NarI	GG!CGCC	2	1434; 3820
NciI	CC!SGG	7	1407; 1408; 1873; 3824; 3984; 4597; 5361
NcoI	C!CATGG	3	360; 3549; 4252
NdeI	CA!TATG	1	234
NdeII	!GATC	31	585; 965; 1115; 1141; 1315; 1688; 1898; 2273; 2303; 2309; 2345; 2393; 2455; 2464; 2477; 3657; 3661; 3680; 3991; 4069; 4150; 4159; 4237; 4613; 4629; 4988; 5000; 5078; 5086; 5097; 5172
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	3	280; 1809; 1899
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	722
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	758
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	3	244; 1773; 1863
NgoMIV	G!CCGGC	4	1381; 3037; 4320; 4603
NheI	G!CTAGC	1	591
NlaIII	CATG!	32	304; 364; 609; 633; 639; 651; 729; 875; 1086; 1374; 1467; 1572; 1695; 1722; 1846; 1896; 2133; 2175; 2241; 3250; 3390; 3462; 3553; 3694; 4039; 4225; 4256; 4282; 4638; 5022; 5742; 5793
NlaIV	GGN!NCC	30	467; 657; 717; 1108; 1365; 1435; 1444; 1585; 1616; 1649; 1876; 2089; 2232; 2288; 2355; 2424; 2457; 2975; 2996; 3008; 3199; 3360; 3432; 3821; 3856; 4704; 4783; 4828; 5671; 5710
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	5	694; 2091; 2652; 2967; 4559
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	5	347; 982; 1435; 1762; 5631
Nli3877I	CYCGR!G	3	1323; 1410; 1622
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1962; 3609; 4045
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	998; 3574



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmeDI	RCCGGYNNNNNNNN!	5	1393; 3049; 4151; 4332; 4615
NmeDI	!NNNNNNNNNNNNRCCGGY	5	1368; 3024; 4126; 4307; 4590
NmuCI	!GTSAC	9	882; 1551; 1792; 1800; 1954; 2179; 3109; 3940; 4246
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3922
NsiI	ATGCA!T	3	3392; 3464; 5795
NspI	RCATG!Y	6	633; 1374; 3390; 3462; 4225; 5742
NspV	TT!CGAA	1	4502
OliI	CACNN!NNGTG	0	
PabI	GTA!C	16	220; 245; 300; 333; 384; 541; 647; 1049; 1532; 1724; 1754; 1768; 2207; 2243; 2336; 4127
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3390; 3462; 4225
PaeR7I	C!TCGAG	1	1319
PagI	T!CATGA	4	1892; 2171; 3246; 5018
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	825; 4785; 4888
PauI	G!CGCGC	0	
PceI	AGG!CCT	2	1030; 3641
PciI	A!CATGT	1	5738
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	2032; 4164; 4374
PcsI	WCGNNNN!NNNCGW	9	1232; 1346; 1394; 4114; 4191; 4434; 4508; 4901; 5419
PctI	GAATGCN!	1	2571
PctI	G!CATTC	1	2664
PdiI	GCC!GGC	4	1383; 3039; 4322; 4605
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	8	731; 1208; 1477; 4305; 4439; 4549; 4586; 5764
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	2	1798; 3938
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	2	935; 4595
PhoI	GG!CC	38	84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1381; 1411; 1498; 1648; 1666; 1763; 1871; 1936; 2008; 2060; 2365; 2423; 2786; 2928; 3583; 3589; 3598; 3641; 3728; 3902; 4293; 4320; 4829; 4886; 4919; 5264; 5698; 5716; 5727
PinAI	A!CCGGT	0	
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	1	4201
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	3766; 4021
PleI	GAGTCNNNN!	5	889; 2142; 2424; 2871; 3303
PleI	!NNNNNGACTC	6	404; 1304; 1780; 2879; 4485; 5362
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2902
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	5032
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	1	5064
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2870
PpsI	GAGTCNNNN!	5	889; 2142; 2424; 2871; 3303
PpsI	!NNNNNGACTC	6	404; 1304; 1780; 2879; 4485; 5362
Ppu10I	A!TGCAT	3	3388; 3460; 5791
Ppu21I	YAC!GTR	3	340; 2936; 4124
PpuMI	RG!GWCCY	1	1875
PscI	A!CATGT	1	5738
PshAI	GACNN!NNGTC	1	1234
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2603; 2808
Psp03I	GGWC!C	4	1863; 1878; 4339; 4784
Psp5II	RG!GWCCY	1	1875
Psp6I	!CCWGG	28	88; 281; 776; 824; 920; 935; 1064; 1173; 1438; 1445; 1733; 1862; 1985; 2030; 2060; 2123; 2244; 2282; 2360; 3354; 3409; 3426; 4205; 4784; 4887; 5577; 5590; 5711
Psp1406I	AA!CGTT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	1	1800
PspGI	!CCWGG	28	88; 281; 776; 824; 920; 935; 1064; 1173; 1438; 1445; 1733; 1862; 1985; 2030; 2060; 2123; 2244; 2282; 2360; 3354; 3409; 3426; 4205; 4784; 4887; 5577; 5590; 5711
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	30	467; 657; 717; 1108; 1365; 1435; 1444; 1585; 1616; 1649; 1876; 2089; 2232; 2288; 2355; 2424; 2457; 2975; 2996; 3008; 3199; 3360; 3432; 3821; 3856; 4704; 4783; 4828; 5671; 5710
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 3550; 4549
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3952
PspPI	G!GNCC	17	83; 276; 751; 994; 1086; 1409; 1497; 1647; 1860; 1875; 2422; 2927; 4336; 4781; 4827; 4885; 4918
PspPPI	RG!GWCCY	1	1875
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	5	1457; 1732; 3373; 3445; 4951
PspPRI	!NNNNNNNNNNNNNNCTGRGG	5	846; 1274; 2085; 3286; 4481
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	3	1650; 1878; 4921
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	3	1268; 4921; 5329
PsuI	R!GATCY	13	585; 1141; 1315; 1898; 2455; 2464; 3991; 4237; 4629; 4988; 5000; 5086; 5097
PsyI	GACN!NNGTC	2	1798; 3938
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	3318; 3926
RcaI	T!CATGA	4	1892; 2171; 3246; 5018
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	4335
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	2	1822; 2549
RleAI	!NNNNNNNNNTGTGGG	1	1475
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	16	219; 244; 299; 332; 383; 540; 646; 1048; 1531; 1723; 1753; 1767; 2206; 2242; 2335; 4126
RsaNI	G!TAC	16	218; 243; 298; 331; 382; 539; 645; 1047; 1530; 1722; 1752; 1766; 2205; 2241; 2334; 4125
RseI	CAYNN!NNRTG	5	365; 634; 1780; 2236; 4257
RsrII	CG!GWCCG	1	4336
Rsr2I	CG!GWCCG	1	4336
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SalI	G!TCGAC	1	1354
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	2032; 4164; 4374
SaqAI	T!TAA	18	7; 620; 1301; 1961; 2521; 2582; 2703; 2724; 2735; 2747; 2758; 2775; 2873; 3144; 4963; 4977; 4982; 5034
SatI	GC!NGC	42	750; 801; 945; 1062; 1243; 1343; 1606; 1636; 1914; 2015; 2050; 2094; 2229; 2352; 2597; 3116; 3138; 3152; 3590; 3729; 3781; 3792; 3882; 3887; 3924; 3965; 4052; 4055; 4058; 4294; 4390; 4431; 4445; 4559; 4898; 4913; 5124; 5330; 5333; 5398; 5541; 5696
Sau96I	G!GNCC	17	83; 276; 751; 994; 1086; 1409; 1497; 1647; 1860; 1875; 2422; 2927; 4336; 4781; 4827; 4885; 4918

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sau3AI	!GATC	31	585; 965; 1115; 1141; 1315; 1688; 1898; 2273; 2303; 2309; 2345; 2393; 2455; 2464; 2477; 3657; 3661; 3680; 3991; 4069; 4150; 4159; 4237; 4613; 4629; 4988; 5000; 5078; 5086; 5097; 5172
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	1	2335
SchI	GAGTCNNNNN!	5	890; 2143; 2425; 2872; 3304
SchI	!NNNNNGACTC	6	404; 1304; 1780; 2879; 4485; 5362
SciI	CTC!GAG	1	1321
ScrFI	CC!NGG	35	90; 283; 778; 826; 922; 937; 1066; 1175; 1407; 1408; 1440; 1447; 1735; 1864; 1873; 1987; 2032; 2062; 2125; 2246; 2284; 2362; 3356; 3411; 3428; 3824; 3984; 4207; 4597; 4786; 4889; 5361; 5579; 5592; 5713
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	8	1032; 1497; 2292; 2430; 3398; 3470; 3639; 5581
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	2301; 3975; 4460
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	2	279; 1808
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	2	245; 1774
SduI	GDGCH!C	15	658; 685; 718; 1295; 1544; 1628; 1817; 3011; 3766; 3859; 3933; 4123; 4185; 4895; 5428
SelI	!CGCG	19	58; 1343; 1388; 1671; 1911; 2706; 2742; 3118; 3138; 3162; 3193; 3884; 4185; 4623; 4707; 4770; 4839; 5112; 5693
SetI	ASST!	81	125; 137; 178; 261; 308; 342; 447; 552; 568; 617; 644; 740; 790; 811; 962; 1097; 1166; 1234; 1238; 1253; 1277; 1301; 1326; 1594; 1607; 1705; 1727; 1865; 1880; 1892; 1924; 1973; 1982; 2026; 2044; 2051; 2066; 2161; 2186; 2204; 2380; 2510; 2531; 2540; 2552; 2601; 2768; 2883; 2895; 2938; 2975; 3025; 3048; 3172; 3320; 3415; 3608; 3721; 3849; 3928; 3939; 4011; 4082; 4126; 4386; 4532; 4576; 4907; 4938; 4997; 5040; 5183; 5204; 5303; 5440; 5455; 5474; 5486; 5530; 5576; 5627
SexAI	A!CCWGGT	1	3409
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	11	839; 1523; 1556; 1784; 2153; 2636; 3399; 3471; 4119; 4183; 4458
SfaNI	!NNNNNNNNNGATGC	9	357; 992; 1160; 1389; 2252; 3778; 4033; 4249; 5641
Sfcl	C!TRYAG	5	1194; 1917; 3155; 5282; 5473
SfiI	GGCCNNNN!NGGCC	1	3595
SfoI	GGC!GCC	2	1435; 3821
Sfr274I	C!TCGAG	1	1319
Sfr303I	CCGC!GG	0	
Sful	TT!CGAA	1	4502
SgeI	CNNGNNNNNNNN!	240	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 618; 642; 660; 690; 714; 732; 747; 789; 816; 837; 858; 871; 884; 912; 933; 948; 975; 1009; 1030; 1050; 1063; 1077; 1095; 1108; 1140; 1158; 1179; 1213; 1239; 1258; 1274; 1292; 1308; 1331; 1356; 1379; 1394; 1418; 1440; 1458; 1476; 1506; 1536; 1551; 1572; 1593; 1621; 1642; 1656; 1674; 1698; 1726; 1746; 1761; 1784; 1802; 1836; 1855; 1870; 1884; 1905; 1920; 1944; 1962; 1998; 2011; 2033; 2058; 2073; 2110; 2124; 2137; 2150; 2184; 2214; 2237; 2250; 2271; 2295; 2319; 2335; 2352; 2373; 2394; 2412; 2427; 2463; 2480; 2527; 2556; 2598; 2681; 2719; 2755; 2839; 2861; 2893; 2930; 2948; 2967; 2982; 3024; 3041; 3058; 3093; 3107; 3124; 3146; 3170; 3194; 3259; 3273; 3311; 3327; 3367; 3380; 3399; 3422; 3439; 3452; 3471; 3501; 3522; 3539; 3562; 3597; 3624; 3655; 3677; 3703; 3725; 3744; 3772; 3808; 3827; 3850; 3864; 3884; 3897; 3911; 3930; 3944; 3963; 3995; 4009; 4022; 4048; 4079; 4092; 4109; 4126; 4140; 4157; 4175; 4190; 4218; 4234; 4253; 4275; 4291; 4314; 4333; 4358; 4377; 4397; 4424; 4448; 4481; 4500; 4528; 4542; 4608; 4632; 4647; 4670; 4691; 4708; 4756; 4783; 4797; 4826; 4850; 4883; 4900; 4920; 4933; 4946; 5004; 5031; 5050; 5080; 5105; 5125; 5139; 5164; 5182; 5219; 5257; 5286; 5314; 5328; 5348; 5363; 5384; 5398; 5417; 5435; 5451; 5491; 5511; 5538; 5556; 5577; 5590; 5603; 5620; 5644; 5667; 5699; 5724; 5751; 5773

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	212	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 616; 634; 664; 688; 706; 730; 763; 790; 811; 832; 858; 886; 907; 949; 983; 1004; 1024; 1051; 1069; 1090; 1114; 1132; 1153; 1187; 1213; 1232; 1266; 1293; 1330; 1353; 1375; 1392; 1414; 1432; 1450; 1480; 1510; 1529; 1546; 1567; 1595; 1616; 1639; 1658; 1678; 1700; 1720; 1746; 1765; 1783; 1810; 1829; 1849; 1879; 1898; 1918; 1936; 1972; 1996; 2017; 2039; 2084; 2110; 2135; 2158; 2188; 2211; 2231; 2269; 2293; 2317; 2347; 2368; 2386; 2406; 2437; 2454; 2501; 2530; 2572; 2655; 2693; 2729; 2813; 2835; 2867; 2904; 2922; 2941; 2998; 3015; 3032; 3067; 3085; 3105; 3125; 3144; 3168; 3233; 3285; 3341; 3373; 3396; 3413; 3445; 3475; 3496; 3513; 3536; 3571; 3598; 3629; 3651; 3677; 3699; 3718; 3746; 3782; 3801; 3824; 3845; 3863; 3880; 3904; 3937; 3969; 3996; 4022; 4053; 4083; 4100; 4126; 4149; 4170; 4192; 4212; 4232; 4249; 4288; 4307; 4332; 4351; 4371; 4398; 4422; 4455; 4474; 4502; 4524; 4582; 4606; 4625; 4644; 4665; 4682; 4730; 4757; 4777; 4800; 4824; 4857; 4874; 4894; 4920; 4978; 5005; 5024; 5054; 5079; 5099; 5138; 5156; 5193; 5231; 5260; 5288; 5309; 5337; 5358; 5391; 5409; 5465; 5485; 5512; 5530; 5551; 5577; 5594; 5618; 5641; 5673; 5698; 5725; 5747; 5776
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	6	27; 1468; 1800; 2967; 4754; 5547
SimI	!GACCC	5	106; 1682; 4248; 4816; 5064
SinI	G!GWCC	4	1860; 1875; 4336; 4781
SlaI	C!TCGAG	1	1319
SmaI	CCC!GGG	1	1408
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 634; 1780; 2236; 4257
SmlI	C!TYRAG	6	1165; 1319; 4211; 5093; 5370; 5632
SmoI	C!TYRAG	6	1165; 1319; 4211; 5093; 5370; 5632
SmuI	CCCGNNNN!	10	93; 119; 286; 1059; 1161; 3142; 3497; 3518; 4714; 4846
SmuI	!NNNNNNGCGGG	8	1096; 1383; 1934; 3073; 3943; 4480; 4618; 4765
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3390; 3462; 4225
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 1302; 2570; 2634; 2712; 2738; 2749; 3396; 3468; 3560; 4978
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	2	1030; 3641
SsiI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 914; 1052; 1154; 1343; 1671; 2091; 2193; 2439; 3135; 3138; 3152; 3242; 3490; 3502; 3511; 3523; 3533; 3544; 3590; 3729; 3792; 4294; 4339; 4405; 4431; 4556; 4559; 4707; 4839; 5146; 5290; 5786
SsiI	G!CGG	33	370; 403; 528; 595; 749; 1061; 1103; 1390; 1913; 1941; 2085; 2228; 2351; 3080; 3107; 3195; 3305; 3886; 3950; 4051; 4054; 4334; 4389; 4487; 4625; 4772; 4912; 5155; 5400; 5521; 5540; 5667; 5695
SspI	AAT!ATT	2	2728; 3281
SspDI	G!GCGCC	2	1433; 3819
SspD5I	GGTGANNNNNNNN!	5	376; 987; 1804; 4891; 5007
SspD5I	!NNNNNNNNNTCACC	10	875; 1025; 1511; 1544; 1793; 1895; 1916; 2060; 2936; 3997
SstI	GAGCT!C	0	
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	920
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	21	92; 118; 285; 842; 1058; 1160; 1413; 1625; 1637; 3019; 3141; 3496; 3517; 3830; 4233; 4372; 4443; 4713; 4845; 5075; 5513
Sth132I	!NNNNNNNNNCGGG	25	15; 407; 470; 891; 1095; 1382; 1399; 1788; 1864; 1933; 3020; 3072; 3173; 3900; 3942; 3975; 4479; 4588; 4617; 4764; 4868; 4899; 5352; 5396; 5604

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sth302II	CC!GG	24	1308; 1368; 1383; 1408; 1791; 1873; 2421; 2463; 3039; 3726; 3803; 3825; 3853; 3984; 4074; 4141; 4322; 4597; 4605; 4697; 5171; 5361; 5387; 5534
StrI	C!TCGAG	1	1319
StsI	GGATGNNNNNNNNNN!	6	1343; 2275; 3688; 4145; 4170; 4624
StsI	!NNNNNNNNNNNNNNCATCC	10	671; 759; 816; 971; 1500; 1833; 2130; 2175; 2343; 3492
StuI	AGG!CCT	2	1030; 3641
StyI	C!CWWGG	6	360; 1661; 3549; 3642; 4252; 4657
StyD4I	!CCNGG	35	88; 281; 776; 824; 920; 935; 1064; 1173; 1405; 1406; 1438; 1445; 1733; 1862; 1871; 1985; 2030; 2060; 2123; 2244; 2282; 2360; 3354; 3409; 3426; 3822; 3982; 4205; 4595; 4784; 4887; 5359; 5577; 5590; 5711
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 660; 1812; 2217; 2911; 4200; 4316; 4424; 4747; 5238; 5708; 5779
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 962; 1238; 1727; 1982; 2186; 2883; 2895; 2938; 3048; 3939; 4126; 4907; 5040
TaqI	T!CGA	18	743; 770; 1238; 1320; 1355; 1538; 1994; 2969; 3660; 3933; 4089; 4113; 4149; 4311; 4502; 4547; 4802; 5640
TaqII	GACCGANNNNNNNNNN!	4	1657; 2840; 3857; 4525
TaqII	!NNNNNNNNNTCGGTC	1	4769
TaqII	CACCCANNNNNNNNNN!	4	733; 838; 1819; 2304
TaqII	!NNNNNNNNNTGGGTG	3	172; 3724; 4316
TasI	!AATT	11	18; 1302; 2570; 2634; 2712; 2738; 2749; 3396; 3468; 3560; 4978
TatI	W!GTACW	6	217; 297; 330; 381; 644; 2333
TauI	GCSG!C	21	752; 1064; 1345; 1916; 2231; 2354; 3140; 3154; 3592; 3731; 3794; 3889; 4054; 4057; 4296; 4392; 4433; 4561; 4915; 5543; 5698
TfiI	G!AWTC	8	731; 1208; 1477; 4305; 4439; 4549; 4586; 5764
TliI	C!TCGAG	1	1319
TruII	T!TAA	18	7; 620; 1301; 1961; 2521; 2582; 2703; 2724; 2735; 2747; 2758; 2775; 2873; 3144; 4963; 4977; 4982; 5034
Tru9I	T!TAA	18	7; 620; 1301; 1961; 2521; 2582; 2703; 2724; 2735; 2747; 2758; 2775; 2873; 3144; 4963; 4977; 4982; 5034
TscAI	CASTGNN!	10	1262; 1776; 1815; 2222; 2283; 2666; 3949; 5059; 5330; 5343
TseI	G!CWGC	21	800; 944; 1242; 1605; 1635; 2014; 2049; 2093; 2596; 3115; 3780; 3881; 3923; 3964; 4057; 4444; 4897; 5123; 5329; 5332; 5397
TsoI	TARCCANNNNNNNNNN!	2	2792; 3139
TsoI	!NNNNNNNNNTGGYTA	3	769; 2597; 4349
Tsp45I	!GTSAC	9	882; 1551; 1792; 1800; 1954; 2179; 3109; 3940; 4246
Tsp509I	!AATT	11	18; 1302; 2570; 2634; 2712; 2738; 2749; 3396; 3468; 3560; 4978
TspDTI	ATGAANNNNNNNNNN!	7	652; 1909; 2188; 2314; 2578; 3879; 4583
TspDTI	!NNNNNNNNNTTCAT	5	26; 801; 4297; 4753; 4960
TspEI	!AATT	11	18; 1302; 2570; 2634; 2712; 2738; 2749; 3396; 3468; 3560; 4978
TspGWI	ACGGANNNNNNNNNN!	1	4695
TspGWI	!NNNNNNNNNTCCGT	1	2328
TspMI	C!CCGGG	1	1406
TspRI	CASTGNN!	10	1262; 1776; 1815; 2222; 2283; 2666; 3949; 5059; 5330; 5343
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	1	1957
TstI	GGANNNNNGTGNNNNNNNNNN!	1	1989
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	2	1798; 3938
Tth111II	CAARCAANNNNNNNNNN!	4	862; 1137; 2416; 5147
Tth111III	!NNNNNNNNNTGYTTG	4	1684; 4255; 5115; 5154
UnbI	!GGNCC	17	82; 275; 750; 993; 1085; 1408; 1496; 1646; 1859; 1874; 2421; 2926; 4335; 4780; 4826; 4884; 4917
Van9II	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	681; 5424
VpaK11AI	!GGWCC	4	1859; 1874; 4335; 4780
VpaK11BI	G!GWCC	4	1860; 1875; 4336; 4781
VspI	AT!TAAT	1	7

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	3	2634; 2738; 2749
XbaI	T!CTAGA	1	2467
XceI	RCATG!Y	6	633; 1374; 3390; 3462; 4225; 5742
XcmI	CCANNNNN!NNNNTGG	2	1854; 2028
XhoI	C!TCGAG	1	1319
XhoII	R!GATCY	13	585; 1141; 1315; 1898; 2455; 2464; 3991; 4237; 4629; 4988; 5000; 5086; 5097
XmaI	C!CCGGG	1	1406
XmaJI	C!CTAGG	2	3642; 4657
XmiI	GT!MKAC	2	1181; 1355
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	11	592; 785; 1280; 2451; 2468; 2669; 3087; 3643; 4658; 4992; 5245
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	1	2335
Zsp2I	ATGCA!T	3	3392; 3464; 5795