

## pTagRFP-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	2621; 2826
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	4	2080; 2909; 3865; 5654
AatI	AGG!CCT	1	3659
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	1199; 1373
AccII	CG!CG	19	60; 1363; 1408; 1691; 1931; 2726; 2762; 3138; 3158; 3182; 3213; 3904; 4205; 4643; 4727; 4790; 4859; 5132; 5713
AccIII	T!CCGGA	1	1324
Acc16I	TGC!GCA	1	3940
Acc36I	ACCTGCNNNN!	2	4106; 4556
Acc36I	!NNNNNNNNGCAGGT	1	3725
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	11	465; 673; 733; 1451; 1460; 1601; 2248; 2304; 2991; 3837; 3872
AccB7I	CCANNNN!NTGG	1	1218
AccBSI	CCG!CTC	2	3262; 4451
AccBSI	GAG!CGG	4	1959; 2103; 3098; 4505
AceIII	CAGCTCNNNNNNN!	2	2052; 2794
AceIII	!NNNNNNNNNNGAGCTG	4	552; 619; 1609; 2053
AciI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 932; 1070; 1172; 1361; 1689; 2109; 2211; 2457; 3153; 3156; 3170; 3260; 3508; 3520; 3529; 3541; 3551; 3562; 3608; 3747; 3810; 4312; 4357; 4423; 4449; 4574; 4577; 4725; 4857; 5164; 5308; 5804
AciI	G!CGG	32	370; 403; 528; 767; 1079; 1121; 1408; 1931; 1959; 2103; 2246; 2369; 3098; 3125; 3213; 3323; 3904; 3968; 4069; 4072; 4352; 4407; 4505; 4643; 4790; 4930; 5173; 5418; 5539; 5558; 5685; 5713
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	11	2371; 2419; 2481; 2490; 3706; 4017; 4263; 4655; 5014; 5112; 5198
AclWI	!NNNNNGATCC	8	580; 1154; 1911; 2468; 4082; 4626; 5013; 5110
AcoI	Y!GGCCR	10	1277; 1779; 1887; 1952; 2024; 2076; 3744; 3918; 4309; 4336
AcsI	R!AATTY	3	2652; 2756; 2767
AcuI	CTGAAGNNNNNNNNNNNNNNN!	4	1129; 1564; 3984; 4416
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	5214
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 1196; 1452; 3838; 4540; 4619
AdeI	CACNNN!GTG	4	1269; 1650; 1830; 2954
AfaI	GT!AC	17	219; 244; 299; 332; 383; 540; 664; 814; 1066; 1549; 1741; 1771; 1785; 2224; 2260; 2353; 4144
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	25	49; 730; 843; 1009; 1075; 1218; 1448; 1814; 1875; 2148; 2850; 3176; 3568; 3819; 4363; 4644; 4676; 4808; 4843; 4893; 4925; 5278; 5557; 5723; 5741
AfiII	C!TTAAG	0	
AfiIII	A!CRYGT	2	2724; 5756
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	9	696; 1146; 1725; 2181; 3249; 3293; 3303; 3716; 5292
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	2202
AjnI	!CCWGG	27	88; 281; 794; 842; 938; 953; 1082; 1456; 1463; 1751; 1880; 2003; 2048; 2078; 2141; 2262; 2300; 2378; 3372; 3427; 3444; 4223; 4802; 4905; 5595; 5608; 5729

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	1	613
AlfI	GCANNNNNTGCGNNNNNNNNNNNN!	2	3412; 3484
AlfI	!NNNNNNNNNGCANNNNNNNTGC	2	3378; 3450
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	2	1020; 2920
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	2	988; 2888
AluI	AG!CT	23	566; 633; 660; 806; 1113; 1342; 1623; 1940; 1989; 2042; 2060; 2067; 2617; 2784; 3041; 3336; 3624; 3944; 4402; 5199; 5456; 5502; 5592
AluBI	AG!CT	23	566; 633; 660; 806; 1113; 1342; 1623; 1940; 1989; 2042; 2060; 2067; 2617; 2784; 3041; 3336; 3624; 3944; 4402; 5199; 5456; 5502; 5592
AlwI	GGATCNNNN!	11	2371; 2419; 2481; 2490; 3706; 4017; 4263; 4655; 5014; 5112; 5198
AlwI	!NNNNNGATCC	8	580; 1154; 1911; 2468; 4082; 4626; 5013; 5110
Alw21I	GWGCW!C	6	703; 1562; 1646; 3951; 4141; 5446
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	6	1240; 1711; 3262; 3680; 4699; 4827
Alw44I	G!TGCAC	2	699; 5442
AlwNI	CAGNNN!CTG	3	1286; 4939; 5347
Ama87I	C!YCGRG	3	1337; 1424; 1636
Aor13HI	T!CCGGA	1	1324
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNN!TGC	4	1651; 3406; 3478; 4940
ApaLI	G!TGCAC	2	699; 5442
ApeKI	G!CWGC	21	818; 962; 1260; 1623; 1653; 2032; 2067; 2111; 2614; 3133; 3798; 3899; 3941; 3982; 4075; 4462; 4915; 5141; 5347; 5350; 5415
ApoI	R!AATY	3	2652; 2756; 2767
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4353
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4147; 4800; 5638
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	2	1807; 4237
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	2	794; 2417
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	2	1664; 3666
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	2	2024; 2317
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	2	1416; 4408
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; 984; 1134; 1160; 1334; 1707; 1917; 2292; 2322; 2328; 2364; 2412; 2474; 2483; 2496; 3676; 3680; 3699; 4010; 4088; 4169; 4178; 4256; 4632; 4648; 5007; 5019; 5097; 5105; 5116; 5191
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	2	1816; 3956
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3660; 4675
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	25	597; 1365; 1454; 1931; 2348; 3104; 3112; 3138; 3160; 3169; 3182; 3213; 3832; 3840; 3904; 3941; 4207; 4467; 4643; 4729; 5132; 5241; 5415; 5515; 5582
AspS9I	G!GNCC	19	83; 276; 769; 1012; 1104; 1125; 1209; 1427; 1515; 1665; 1878; 1893; 2440; 2945; 4354; 4799; 4845; 4903; 4936
AssI	AGT!ACT	1	2353

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AsuI	TT!CGAA	1	4520
AsuC2I	CC!SGG	8	1193; 1425; 1426; 1891; 3842; 4002; 4615; 5379
AsuHPI	GGTGANNNNNNNN!	5	376; 1005; 1822; 4909; 5025
AsuHPI	!NNNNNNNTCACC	9	894; 1530; 1563; 1812; 1914; 1935; 2079; 2955; 4016
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	3	1337; 1424; 1636
AvaII	G!GWCC	5	1209; 1878; 1893; 4354; 4799
AviII	TGC!GCA	1	3940
AvrII	C!CTAGG	2	3660; 4675
AxyI	CC!TNAGG	4	878; 2117; 3318; 4950
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	8	676; 703; 736; 1313; 1835; 3784; 3877; 5446
BalI	TGG!CCA	3	1279; 2026; 3920
BamHI	G!GATCC	1	2473
BanI	G!GYRCC	11	465; 673; 733; 1451; 1460; 1601; 2248; 2304; 2991; 3837; 3872
BanII	GRGCY!C	3	3029; 4203; 4913
BanIII	AT!CGAT	1	3678
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	2010
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	1978
BasI	CCANNN!NTGG	1	1218
BauI	C!ACGAG	3	1264; 4556; 5583
BauI	C!TCGTG	2	1114; 4430
BbeI	GGCGC!C	2	1455; 3841
Bbr7I	GAAGACNNNNNN!	1	925
Bbr7I	!NNNNNNNNNNNGTCTTC	1	1420
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	920
BbsI	!NNNNNGTCTTC	1	1425
BbuI	GCATG!C	3	3408; 3480; 4243
BbvI	GCAGCNNNNNNNN!	8	830; 1272; 2626; 3911; 3953; 4474; 4927; 5427
BbvI	!NNNNNNNNNNNGCTGC	12	949; 1610; 1640; 2019; 2054; 2098; 3120; 3785; 3969; 4062; 5128; 5334
Bbv12I	GWGCW!C	6	703; 1562; 1646; 3951; 4141; 5446
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	12	1011; 1450; 1561; 1843; 1873; 2194; 2383; 2455; 2968; 3532; 4058; 4560
BccI	!NNNNNGATGG	6	1467; 1794; 2016; 2936; 3716; 4144
BceAI	ACGGCNNNNNNNNNN!	11	831; 975; 1026; 1092; 1395; 1578; 1967; 2045; 2091; 4264; 4751
BceAI	!NNNNNNNNNNNGCCGT	5	1414; 1766; 2979; 3797; 5256
Bcefi	ACGGCNNNNNNNNNN!	11	831; 975; 1026; 1092; 1395; 1578; 1967; 2045; 2091; 4264; 4751
Bcefi	!NNNNNNNNNNNGCCGT	5	1415; 1767; 2980; 3798; 5257
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	1865
BcgI	!NNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNNTGC	1	1831
BciVI	GTATCCNNNNNN!	3	3267; 4057; 5558
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2495
BcnI	CC!SGG	8	1193; 1425; 1426; 1891; 3842; 4002; 4615; 5379
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	4	1723; 1936; 2518; 5691
BdaI	!NNNNNNNNNTGANNNNNNTCA	4	1689; 1902; 2484; 5657
BfaI	C!TAG	10	592; 1298; 2469; 2486; 2687; 3105; 3661; 4676; 5010; 5263
BfiI	ACTGGGNNNN!	3	1315; 1587; 3787
BfiI	!NNNNCCCAGT	2	289; 3539
BfmI	C!TRYAG	4	1935; 3173; 5300; 5491
BfoI	RGCGC!Y	6	598; 1455; 3105; 3113; 3841; 5516

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BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	3267; 4057; 5558
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4106; 4556
BfuAI	!NNNNNNNNGCAGGT	1	3725
BfuCI	!GATC	31	585; 983; 1133; 1159; 1333; 1706; 1916; 2291; 2321; 2327; 2363; 2411; 2473; 2482; 2495; 3675; 3679; 3698; 4009; 4087; 4168; 4177; 4255; 4631; 4647; 5006; 5018; 5096; 5104; 5115; 5190
BglI	GCCNNNN!NGGC	6	90; 212; 283; 1088; 1426; 3613
BglII	A!GATCT	1	1333
BisI	GC!NGC	42	768; 819; 963; 1080; 1261; 1361; 1624; 1654; 1932; 2033; 2068; 2112; 2247; 2370; 2615; 3134; 3156; 3170; 3608; 3747; 3799; 3810; 3900; 3905; 3942; 3983; 4070; 4073; 4076; 4312; 4408; 4449; 4463; 4577; 4916; 4931; 5142; 5348; 5351; 5416; 5559; 5714
BlnI	C!CTAGG	2	3660; 4675
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	42	769; 820; 964; 1081; 1262; 1362; 1625; 1655; 1933; 2034; 2069; 2113; 2248; 2371; 2616; 3135; 3157; 3171; 3609; 3748; 3800; 3811; 3901; 3906; 3943; 3984; 4071; 4074; 4077; 4313; 4409; 4450; 4464; 4578; 4917; 4932; 5143; 5349; 5352; 5417; 5560; 5715
BmcAI	AGT!ACT	1	2353
Bme18I	G!GWCC	5	1209; 1878; 1893; 4354; 4799
Bme1390I	CC!NGG	35	90; 283; 796; 844; 940; 955; 1084; 1193; 1425; 1426; 1458; 1465; 1753; 1882; 1891; 2005; 2050; 2080; 2143; 2264; 2302; 2380; 3374; 3429; 3446; 3842; 4002; 4225; 4615; 4804; 4907; 5379; 5597; 5610; 5731
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	3	1337; 1424; 1636
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	2202
BmgT120I	GG!NCC	19	84; 277; 770; 1013; 1105; 1126; 1210; 1428; 1516; 1666; 1879; 1894; 2441; 2946; 4355; 4800; 4846; 4904; 4937
BmiI	GGN!NCC	30	467; 675; 735; 1126; 1383; 1453; 1462; 1603; 1634; 1667; 1894; 2107; 2250; 2306; 2373; 2442; 2475; 2993; 3014; 3026; 3217; 3378; 3450; 3839; 3874; 4722; 4801; 4846; 5689; 5728
BmrI	ACTGGGNNNNN!	3	1315; 1587; 3787
BmrI	!NNNNCCCAGT	2	289; 3539
BmrFI	CC!NGG	35	90; 283; 796; 844; 940; 955; 1084; 1193; 1425; 1426; 1458; 1465; 1753; 1882; 1891; 2005; 2050; 2080; 2143; 2264; 2302; 2380; 3374; 3429; 3446; 3842; 4002; 4225; 4615; 4804; 4907; 5379; 5597; 5610; 5731
BmsI	GCATCNNNNN!	11	857; 1541; 1574; 1802; 2171; 2654; 3417; 3489; 4137; 4201; 4476
BmsI	!NNNNNNNNGATGC	10	357; 1010; 1049; 1178; 1407; 2270; 3796; 4051; 4267; 5659
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	3	1315; 1587; 3787
BmuI	!NNNNCCCAGT	2	289; 3539
BoxI	GACNN!NNGTC	1	1252
BpiI	GAAGACNN!	1	920
BpiI	!NNNNNNGTCTTC	1	1425
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	3	1552; 3627; 4526
BpI	!NNNNNNNNGAGNNNNNCTC	3	1520; 3595; 4494
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	2071; 4678
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	937; 4621
Bpu10I	CC!TNAGC	1	2342
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	4520
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	920
BpuAI	!NNNNNNGTCTTC	1	1425
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	5132; 5671
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	1168; 4214; 5373
BpuMI	CC!SGG	8	1193; 1425; 1426; 1891; 3842; 4002; 4615; 5379
BpvUI	CGAT!CG	0	

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BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	1240; 1711; 4827
Bsa29I	AT!CGAT	1	3678
BsaAI	YAC!GTR	3	340; 2954; 4142
BsaBI	GATNN!NNATC	4	2326; 2410; 2500; 3697
BsaHI	GR!CGYC	9	122; 175; 258; 444; 1196; 1452; 3838; 4540; 4619
BsaJI	C!CNNGG	33	360; 611; 707; 842; 843; 938; 1423; 1456; 1464; 1637; 1661; 1679; 1949; 2003; 2027; 2048; 2142; 2262; 2300; 3372; 3444; 3567; 3602; 3611; 3660; 4001; 4270; 4675; 4802; 4803; 4905; 4906; 5596
BsaMI	GAATGCN!	1	2589
BsaMI	G!CATTC	1	2682
BsaWI	W!CCGGW	8	600; 1324; 1807; 2479; 3869; 4713; 5403; 5550
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	1396; 2918
BsaXI	!NNNNNNNGGAGNNNNNGT	1	1975
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	2005
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	1366; 2888
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	3	1076; 1751; 2255
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	2839; 4746
Bsc4I	CCNNNNN!NNGG	25	49; 730; 843; 1009; 1075; 1218; 1448; 1814; 1875; 2148; 2850; 3176; 3568; 3819; 4363; 4644; 4676; 4808; 4843; 4893; 4925; 5278; 5557; 5723; 5741
BscAI	GCATCNNNN!	11	856; 1540; 1573; 1801; 2170; 2653; 3416; 3488; 4136; 4200; 4475
BscAI	!NNNNNNGATGC	10	360; 1013; 1052; 1181; 1410; 2273; 3799; 4054; 4270; 5662
Bse1I	ACTGGN!	7	1223; 1310; 1582; 1794; 3782; 3983; 5229
Bse1I	C!CAGT	5	295; 2867; 3545; 5341; 5354
Bse8I	GATNN!NNATC	4	2326; 2410; 2500; 3697
Bse21I	CC!TNAGG	4	878; 2117; 3318; 4950
Bse118I	R!CCGGY	6	600; 1399; 3055; 4157; 4338; 4621
BseAI	T!CCGGA	1	1324
BseBI	CC!WGG	27	90; 283; 796; 844; 940; 955; 1084; 1458; 1465; 1753; 1882; 2005; 2050; 2080; 2143; 2264; 2302; 2380; 3374; 3429; 3446; 4225; 4804; 4907; 5597; 5610; 5731
BseCI	AT!CGAT	1	3678
BseDI	C!CNNGG	33	360; 611; 707; 842; 843; 938; 1423; 1456; 1464; 1637; 1661; 1679; 1949; 2003; 2027; 2048; 2142; 2262; 2300; 3372; 3444; 3567; 3602; 3611; 3660; 4001; 4270; 4675; 4802; 4803; 4905; 4906; 5596
Bse3DI	GCAATGNN!	2	2103; 4071
Bse3DI	!CATTGC	2	2267; 2330
BseGI	GGATGNN!	6	1353; 2285; 3698; 4155; 4180; 4634
BseGI	!CATCC	10	703; 791; 848; 1003; 1532; 1865; 2162; 2207; 2375; 3524
BseJI	GATNN!NNATC	4	2326; 2410; 2500; 3697
BseLI	CCNNNNN!NNGG	25	49; 730; 843; 1009; 1075; 1218; 1448; 1814; 1875; 2148; 2850; 3176; 3568; 3819; 4363; 4644; 4676; 4808; 4843; 4893; 4925; 5278; 5557; 5723; 5741
BseMI	GCAATGNN!	2	2103; 4071
BseMI	!CATTGC	2	2267; 2330
BseMII	CTCAGNNNNNNNNNN!	2	1344; 4964
BseMII	!NNNNNNNCTGAG	8	869; 2108; 2333; 3309; 3611; 4492; 5064; 5473
BseNI	ACTGGN!	7	1223; 1310; 1582; 1794; 3782; 3983; 5229
BseNI	C!CAGT	5	295; 2867; 3545; 5341; 5354
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1654; 3656
BseRI	!NNNNNNNCTCCTC	2	2034; 2327
BseSI	GKGCMI:C	8	676; 703; 736; 1313; 1835; 3784; 3877; 5446
BseXI	GCAGCNNNNNNNN!	8	830; 1272; 2626; 3911; 3953; 4474; 4927; 5427
BseXI	!NNNNNNNNNNNGCTGC	12	949; 1610; 1640; 2019; 2054; 2098; 3120; 3785; 3969; 4062; 5128; 5334
BseX3I	C!GGCCG	2	1952; 3744
BseYI	C!CCAGC	5	1731; 2308; 3381; 3453; 5452
BseYI	G!CTGGG	2	1040; 4342
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	19	60; 1363; 1408; 1691; 1931; 2726; 2762; 3138; 3158; 3182; 3213; 3904; 4205; 4643; 4727; 4790; 4859; 5132; 5713

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bsh1285I	CGRY!CG	4	605; 1955; 3747; 5422
BshFI	GG!CC	39	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1399; 1429; 1516; 1666; 1684; 1781; 1889; 1954; 2026; 2078; 2383; 2441; 2804; 2946; 3601; 3607; 3616; 3659; 3746; 3920; 4311; 4338; 4847; 4904; 4937; 5282; 5716; 5734; 5745
BshNI	G!GYRCC	11	465; 673; 733; 1451; 1460; 1601; 2248; 2304; 2991; 3837; 3872
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	3678
BsiEI	CGRY!CG	4	605; 1955; 3747; 5422
BsiHKAI	GWGCW!C	6	703; 1562; 1646; 3951; 4141; 5446
BsiHKCI	C!YCGRG	3	1337; 1424; 1636
BsiSI	C!CGG	26	601; 1193; 1325; 1385; 1400; 1425; 1808; 1890; 2438; 2480; 3056; 3743; 3820; 3842; 3870; 4001; 4091; 4158; 4339; 4614; 4622; 4714; 5188; 5378; 5404; 5551
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	25	49; 730; 843; 1009; 1075; 1218; 1448; 1814; 1875; 2148; 2850; 3176; 3568; 3819; 4363; 4644; 4676; 4808; 4843; 4893; 4925; 5278; 5557; 5723; 5741
BsIFI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1594; 1906; 3989; 4521; 4630
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3354; 3426; 3490; 4785
BsmI	GAATGCN!	1	2589
BsmI	G!CATTC	1	2682
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	6	1240; 1711; 3262; 3680; 4699; 4827
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1594; 1906; 3989; 4521; 4630
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3354; 3426; 3490; 4785
BsnI	GG!CC	39	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1399; 1429; 1516; 1666; 1684; 1781; 1889; 1954; 2026; 2078; 2383; 2441; 2804; 2946; 3601; 3607; 3616; 3659; 3746; 3920; 4311; 4338; 4847; 4904; 4937; 5282; 5716; 5734; 5745
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	1240; 1711; 4827
BsoBI	C!YCGRG	3	1337; 1424; 1636
Bsp13I	T!CCGGA	1	1324
Bsp19I	C!CATGG	4	360; 611; 3567; 4270
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4641
Bsp24I	!NNNNNNCCANNNNNGTC	3	1857; 5062; 5240
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	3	1889; 5094; 5272
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4609
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4520
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	31	585; 983; 1133; 1159; 1333; 1706; 1916; 2291; 2321; 2327; 2363; 2411; 2473; 2482; 2495; 3675; 3679; 3698; 4009; 4087; 4168; 4177; 4255; 4631; 4647; 5006; 5018; 5096; 5104; 5115; 5190
Bsp1286I	GDGCH!C	15	676; 703; 736; 1313; 1562; 1646; 1835; 3029; 3784; 3877; 3951; 4141; 4203; 4913; 5446
Bsp1407I	T!GTACA	1	662
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 932; 1070; 1172; 1361; 1689; 2109; 2211; 2457; 3153; 3156; 3170; 3260; 3508; 3520; 3529; 3541; 3551; 3562; 3608; 3747; 3810; 4312; 4357; 4423; 4449; 4574; 4577; 4725; 4857; 5164; 5308; 5804
BspACI	G!CGG	32	370; 403; 528; 767; 1079; 1121; 1408; 1931; 1959; 2103; 2246; 2369; 3098; 3125; 3213; 3323; 3904; 3968; 4069; 4072; 4352; 4407; 4505; 4643; 4790; 4930; 5173; 5418; 5539; 5558; 5685; 5713
BspCNI	CTCAGNNNNNNNN!	2	1343; 4963
BspCNI	!NNNNNNNCTGAG	8	870; 2109; 2334; 3310; 3612; 4493; 5065; 5474
BspDI	AT!CGAT	1	3678
BspD6I	GACTCNNNN!	6	418; 1336; 1812; 2911; 4517; 5394
BspD6I	!NNNNNGAGTC	5	892; 2145; 2427; 2874; 3306
BspEI	T!CCGGA	1	1324

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspFNI	CG!CG	19	60; 1363; 1408; 1691; 1931; 2726; 2762; 3138; 3158; 3182; 3213; 3904; 4205; 4643; 4727; 4790; 4859; 5132; 5713
BspHI	T!CATGA	4	1910; 2189; 3264; 5036
BspLI	GGN!NCC	30	467; 675; 735; 1126; 1383; 1453; 1462; 1603; 1634; 1667; 1894; 2107; 2250; 2306; 2373; 2442; 2475; 2993; 3014; 3026; 3217; 3378; 3450; 3839; 3874; 4722; 4801; 4846; 5689; 5728
BspMI	ACCTGCNNNN!	2	4106; 4556
BspMI	!NNNNNNNNGCAGGT	1	3725
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	11	2371; 2419; 2481; 2490; 3706; 4017; 4263; 4655; 5014; 5112; 5198
BspPI	!NNNNNGATCC	8	580; 1154; 1911; 2468; 4082; 4626; 5013; 5110
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	4	623; 2050; 4182; 4392
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4520
BspT107I	G!GYRCC	11	465; 673; 733; 1451; 1460; 1601; 2248; 2304; 2991; 3837; 3872
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	1240; 1711; 4827
BsrI	ACTGGN!	7	1223; 1310; 1582; 1794; 3782; 3983; 5229
BsrI	C!CAGT	5	295; 2867; 3545; 5341; 5354
BsrBI	CCG!CTC	2	3262; 4451
BsrBI	GAG!CGG	4	1959; 2103; 3098; 4505
BsrDI	GCAATGNN!	2	2103; 4071
BsrDI	!CATTGC	2	2267; 2330
BsrFI	R!CCGGY	6	600; 1399; 3055; 4157; 4338; 4621
BsrGI	T!GTACA	1	662
BsrSI	ACTGGN!	7	1223; 1310; 1582; 1794; 3782; 3983; 5229
BsrSI	C!CAGT	5	295; 2867; 3545; 5341; 5354
BssAI	R!CCGGY	6	600; 1399; 3055; 4157; 4338; 4621
BssECI	C!CNNGG	33	360; 611; 707; 842; 843; 938; 1423; 1456; 1464; 1637; 1661; 1679; 1949; 2003; 2027; 2048; 2142; 2262; 2300; 3372; 3444; 3567; 3602; 3611; 3660; 4001; 4270; 4675; 4802; 4803; 4905; 4906; 5596
BssHII	G!CGCGC	0	
BssKI	!CCNNGG	35	88; 281; 794; 842; 938; 953; 1082; 1191; 1423; 1424; 1456; 1463; 1751; 1880; 1889; 2003; 2048; 2078; 2141; 2262; 2300; 2378; 3372; 3427; 3444; 3840; 4000; 4223; 4613; 4802; 4905; 5377; 5595; 5608; 5729
BssMI	!GATC	31	585; 983; 1133; 1159; 1333; 1706; 1916; 2291; 2321; 2327; 2363; 2411; 2473; 2482; 2495; 3675; 3679; 3698; 4009; 4087; 4168; 4177; 4255; 4631; 4647; 5006; 5018; 5096; 5104; 5115; 5190
BssNI	GR!CGYC	9	122; 175; 258; 444; 1196; 1452; 3838; 4540; 4619
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1264; 4556; 5583
BssSI	C!TCGTG	2	1114; 4430
BssTII	C!CWGGG	7	360; 611; 1679; 3567; 3660; 4270; 4675
Bst6I	CTCTCN!	1	2131
Bst6I	!NNNNGAAGAG	5	623; 2050; 3305; 4182; 4392
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 1196; 1452; 3838; 4540; 4619
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	4	1650; 3405; 3477; 4939
BstAUI	T!GTACA	1	662
BstBI	TT!CGAA	1	4520
Bst2BI	C!ACGAG	3	1264; 4556; 5583
Bst2BI	C!TCGTG	2	1114; 4430
BstBAI	YAC!GTR	3	340; 2954; 4142
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 678; 1830; 2235; 2929; 4218; 4334; 4442; 4765; 5256; 5726; 5797
BstC8I	GCN!NGC	33	86; 279; 593; 721; 925; 1401; 1410; 1887; 2419; 3057; 3100; 3114; 3387; 3406; 3459; 3478; 3732; 3918; 4137; 4203; 4209; 4241; 4282; 4286; 4340; 4623; 4810; 4857; 4913; 4935; 5146; 5706; 5743

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstDEI	C!TNAG	12	620; 878; 1175; 1330; 2117; 2342; 3318; 3620; 4501; 4950; 5073; 5482
BstDSI	C!CRYGG	6	360; 611; 1949; 2027; 3567; 4270
BstEII	G!GTNACC	1	1818
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	6	1353; 2285; 3698; 4155; 4180; 4634
BstF5I	!CATCC	10	703; 791; 848; 1003; 1532; 1865; 2162; 2207; 2375; 3524
BstFNI	CG!CG	19	60; 1363; 1408; 1691; 1931; 2726; 2762; 3138; 3158; 3182; 3213; 3904; 4205; 4643; 4727; 4790; 4859; 5132; 5713
BstH2I	RGCGC!Y	6	598; 1455; 3105; 3113; 3841; 5516
BstHHI	GCG!C	25	597; 1365; 1454; 1931; 2348; 3104; 3112; 3138; 3160; 3169; 3182; 3213; 3832; 3840; 3904; 3941; 4207; 4467; 4643; 4729; 5132; 5241; 5415; 5515; 5582
BstKTI	GAT!C	31	588; 986; 1136; 1162; 1336; 1709; 1919; 2294; 2324; 2330; 2366; 2414; 2476; 2485; 2498; 3678; 3682; 3701; 4012; 4090; 4171; 4180; 4258; 4634; 4650; 5009; 5021; 5099; 5107; 5118; 5193
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	6	1240; 1711; 3262; 3680; 4699; 4827
BstMBI	!GATC	31	585; 983; 1133; 1159; 1333; 1706; 1916; 2291; 2321; 2327; 2363; 2411; 2473; 2482; 2495; 3675; 3679; 3698; 4009; 4087; 4168; 4177; 4255; 4631; 4647; 5006; 5018; 5096; 5104; 5115; 5190
BstMCI	CGRY!CG	4	605; 1955; 3747; 5422
BstMWI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 657; 1088; 1400; 1426; 1458; 1529; 1650; 1753; 1937; 2032; 3065; 3095; 3122; 3164; 3405; 3477; 3528; 3607; 3829; 3913; 3936; 4075; 4198; 4281; 4548; 4735; 4939; 5138; 5710
BstNI	CC!WGG	27	90; 283; 796; 844; 940; 955; 1084; 1458; 1465; 1753; 1882; 2005; 2050; 2080; 2143; 2264; 2302; 2380; 3374; 3429; 3446; 4225; 4804; 4907; 5597; 5610; 5731
BstNSI	RCATG!Y	6	651; 1392; 3408; 3480; 4243; 5760
BstOI	CC!WGG	27	90; 283; 796; 844; 940; 955; 1084; 1458; 1465; 1753; 1882; 2005; 2050; 2080; 2143; 2264; 2302; 2380; 3374; 3429; 3446; 4225; 4804; 4907; 5597; 5610; 5731
BstPI	G!GTNACC	1	1818
BstPAI	GACNN!NNGTC	1	1252
BstSCI	!CCNGG	35	88; 281; 794; 842; 938; 953; 1082; 1191; 1423; 1424; 1456; 1463; 1751; 1880; 1889; 2003; 2048; 2078; 2141; 2262; 2300; 2378; 3372; 3427; 3444; 3840; 4000; 4223; 4613; 4802; 4905; 5377; 5595; 5608; 5729
BstSFI	C!TRYAG	4	1935; 3173; 5300; 5491
BstSLI	GKGC!C	8	676; 703; 736; 1313; 1835; 3784; 3877; 5446
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 1363; 1408; 1691; 1931; 2726; 2762; 3138; 3158; 3182; 3213; 3904; 4205; 4643; 4727; 4790; 4859; 5132; 5713
Bst2UI	CC!WGG	27	90; 283; 796; 844; 940; 955; 1084; 1458; 1465; 1753; 1882; 2005; 2050; 2080; 2143; 2264; 2302; 2380; 3374; 3429; 3446; 4225; 4804; 4907; 5597; 5610; 5731
BstV1I	GCAGCNNNNNNN!	8	830; 1272; 2626; 3911; 3953; 4474; 4927; 5427
BstV1I	!NNNNNNNNNNNGCTGC	12	949; 1610; 1640; 2019; 2054; 2098; 3120; 3785; 3969; 4062; 5128; 5334
BstV2I	GAAGACNN!	1	920
BstV2I	!NNNNNNGTCTTC	1	1425
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 1159; 1333; 1916; 2473; 2482; 4009; 4255; 4647; 5006; 5018; 5104; 5115
BstYI	R!GATCY	13	585; 1159; 1333; 1916; 2473; 2482; 4009; 4255; 4647; 5006; 5018; 5104; 5115
BstZI	C!GGCCG	2	1952; 3744
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3267; 4057; 5558
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3678
Bsu36I	CC!TNAGG	4	878; 2117; 3318; 4950



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsuRI	GG!CC	39	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1399; 1429; 1516; 1666; 1684; 1781; 1889; 1954; 2026; 2078; 2383; 2441; 2804; 2946; 3601; 3607; 3616; 3659; 3746; 3920; 4311; 4338; 4847; 4904; 4937; 5282; 5716; 5734; 5745
BsuTUI	AT!CGAT	1	3678
BtgI	C!CRYGG	6	360; 611; 1949; 2027; 3567; 4270
BtgZI	GCGATGNNNNNNNNNN!	2	2955; 4290
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 4109; 4453
BthCI	GCNG!C	42	770; 821; 965; 1082; 1263; 1363; 1626; 1656; 1934; 2035; 2070; 2114; 2249; 2372; 2617; 3136; 3158; 3172; 3610; 3749; 3801; 3812; 3902; 3907; 3944; 3985; 4072; 4075; 4078; 4314; 4410; 4451; 4465; 4579; 4918; 4933; 5144; 5350; 5353; 5418; 5561; 5716
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	2202
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	2294; 2677
BtsCI	GGATGNN!	6	1353; 2285; 3698; 4155; 4180; 4634
BtsCI	!CATCC	10	703; 791; 848; 1003; 1532; 1865; 2162; 2207; 2375; 3524
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4106; 4556
BveI	!NNNNNNNNNGCAGGT	1	3725
Cac8I	GCN!NGC	33	86; 279; 593; 721; 925; 1401; 1410; 1887; 2419; 3057; 3100; 3114; 3387; 3406; 3459; 3478; 3732; 3918; 4137; 4203; 4209; 4241; 4282; 4286; 4340; 4623; 4810; 4857; 4913; 4935; 5146; 5706; 5743
CaiI	CAGNNN!CTG	3	1286; 4939; 5347
CciI	T!CATGA	4	1910; 2189; 3264; 5036
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	10	352; 1446; 1557; 1569; 1797; 2451; 4127; 4132; 4330; 4471
CdiI	C!GATG	3	1416; 2941; 4276
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5710
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3499; 3541
CelII	GC!TNAGC	0	
CfoI	GCG!C	25	597; 1365; 1454; 1931; 2348; 3104; 3112; 3138; 3160; 3169; 3182; 3213; 3832; 3840; 3904; 3941; 4207; 4467; 4643; 4729; 5132; 5241; 5415; 5515; 5582
CfrI	Y!GGCCR	10	1277; 1779; 1887; 1952; 2024; 2076; 3744; 3918; 4309; 4336
Cfr9I	C!CCGGG	1	1424
Cfr10I	R!CCGGY	6	600; 1399; 3055; 4157; 4338; 4621
Cfr13I	G!GNCC	19	83; 276; 769; 1012; 1104; 1125; 1209; 1427; 1515; 1665; 1878; 1893; 2440; 2945; 4354; 4799; 4845; 4903; 4936
Cfr42I	CCGC!GG	0	
ChaI	GATC!	31	589; 987; 1137; 1163; 1337; 1710; 1920; 2295; 2325; 2331; 2367; 2415; 2477; 2486; 2499; 3679; 3683; 3702; 4013; 4091; 4172; 4181; 4259; 4635; 4651; 5010; 5022; 5100; 5108; 5119; 5194
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	8	715; 1729; 1890; 2425; 3655; 5095; 5195; 5273
CjeI	!NNNNNNNNNACNNNNNNNTGG	8	64; 257; 2344; 3322; 3417; 4609; 5159; 5714
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNNNN!	8	98; 291; 2378; 3356; 3451; 4643; 5193; 5748
CjeI	!NNNNNNNNCCANNNNNNGT	8	681; 1695; 1856; 2391; 3621; 5061; 5161; 5239
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNNNN!	3	1890; 5095; 5273
CjePI	!NNNNNNNNNGANNNNNNNNTGG	6	257; 740; 1085; 1582; 4609; 5208
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNNNN!	6	290; 773; 1118; 1615; 4642; 5241
CjePI	!NNNNNNNNCCANNNNNNNNTC	3	1857; 5062; 5240
Clai	AT!CGAT	1	3678
CpoI	CG!GWCCG	1	4354
CseI	GACGCNNNNN!	3	526; 4548; 4627
CseI	!NNNNNNNNNNNGCGTC	5	1185; 1861; 3171; 5066; 5644
CsiI	A!CCWGGT	1	3427
CspI	CG!GWCCG	1	4354
Csp6I	G!TAC	17	218; 243; 298; 331; 382; 539; 663; 813; 1065; 1548; 1740; 1770; 1784; 2223; 2259; 2352; 4143
Csp45I	TT!CGAA	1	4520
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNNGTGGNNNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNNNTTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	6	665; 1256; 2006; 2312; 3118; 4727
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	33	301; 361; 612; 648; 654; 666; 744; 810; 890; 1101; 1389; 1482; 1587; 1710; 1737; 1861; 1911; 2148; 2190; 2256; 3265; 3405; 3477; 3568; 3709; 4054; 4240; 4271; 4297; 4653; 5037; 5757; 5808
CviJI	RG!CY	119	42; 84; 93; 277; 566; 633; 660; 723; 770; 799; 806; 884; 950; 962; 1013; 1040; 1048; 1082; 1105; 1113; 1127; 1237; 1273; 1279; 1342; 1382; 1399; 1403; 1429; 1516; 1623; 1633; 1666; 1684; 1735; 1756; 1781; 1885; 1889; 1934; 1940; 1954; 1989; 2026; 2032; 2042; 2060; 2067; 2078; 2133; 2372; 2383; 2441; 2507; 2617; 2784; 2804; 2946; 3027; 3041; 3055; 3336; 3377; 3449; 3572; 3601; 3607; 3616; 3624; 3647; 3659; 3665; 3746; 3763; 3771; 3798; 3823; 3907; 3916; 3920; 3944; 3982; 4058; 4075; 4094; 4157; 4201; 4211; 4228; 4311; 4338; 4342; 4379; 4402; 4418; 4598; 4625; 4686; 4808; 4847; 4904; 4911; 4918; 4937; 4948; 5199; 5228; 5271; 5282; 5347; 5426; 5451; 5456; 5502; 5592; 5690; 5716; 5734; 5745
CviKI-1	RG!CY	119	42; 84; 93; 277; 566; 633; 660; 723; 770; 799; 806; 884; 950; 962; 1013; 1040; 1048; 1082; 1105; 1113; 1127; 1237; 1273; 1279; 1342; 1382; 1399; 1403; 1429; 1516; 1623; 1633; 1666; 1684; 1735; 1756; 1781; 1885; 1889; 1934; 1940; 1954; 1989; 2026; 2032; 2042; 2060; 2067; 2078; 2133; 2372; 2383; 2441; 2507; 2617; 2784; 2804; 2946; 3027; 3041; 3055; 3336; 3377; 3449; 3572; 3601; 3607; 3616; 3624; 3647; 3659; 3665; 3746; 3763; 3771; 3798; 3823; 3907; 3916; 3920; 3944; 3982; 4058; 4075; 4094; 4157; 4201; 4211; 4228; 4311; 4338; 4342; 4379; 4402; 4418; 4598; 4625; 4686; 4808; 4847; 4904; 4911; 4918; 4937; 4948; 5199; 5228; 5271; 5282; 5347; 5426; 5451; 5456; 5502; 5592; 5690; 5716; 5734; 5745
CviQI	G!TAC	17	218; 243; 298; 331; 382; 539; 663; 813; 1065; 1548; 1740; 1770; 1784; 2223; 2259; 2352; 4143
DdeI	C!TNAG	12	620; 878; 1175; 1330; 2117; 2342; 3318; 3620; 4501; 4950; 5073; 5482
DinI	GGC!GCC	2	1453; 3839
DpnI	GA!TC	31	587; 985; 1135; 1161; 1335; 1708; 1918; 2293; 2323; 2329; 2365; 2413; 2475; 2484; 2497; 3677; 3681; 3700; 4011; 4089; 4170; 4179; 4257; 4633; 4649; 5008; 5020; 5098; 5106; 5117; 5192
DpnII	!GATC	31	585; 983; 1133; 1159; 1333; 1706; 1916; 2291; 2321; 2327; 2363; 2411; 2473; 2482; 2495; 3675; 3679; 3698; 4009; 4087; 4168; 4177; 4255; 4631; 4647; 5006; 5018; 5096; 5104; 5115; 5190
DraI	TTT!AAA	3	2540; 4982; 5001
DraII	RG!GNCCY	3	1665; 1893; 4936
DraIII	CACNN!GTG	4	1269; 1650; 1830; 2954
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 2375; 5318
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	4	2080; 2909; 3865; 5654
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	2080; 2909; 3865; 5654
EaeI	Y!GGCCR	10	1277; 1779; 1887; 1952; 2024; 2076; 3744; 3918; 4309; 4336
EagI	C!GGCCG	2	1952; 3744
Eam1104I	CTCTCN!	1	2131
Eam1104I	!NNNNGAAGAG	5	623; 2050; 3305; 4182; 4392
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	1	2131
EarI	!NNNNGAAGAG	5	623; 2050; 3305; 4182; 4392
EciI	GGCGANNNNNNNNNNNN!	4	3338; 4367; 5554; 5700
EciI	!NNNNNNNNNTCCGCC	4	496; 3509; 3530; 3551
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	2	1952; 3744
Eco24I	GRGCY!C	3	3029; 4203; 4913
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	3	1240; 1711; 4827

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco32I	GAT!ATC	1	1356
Eco47I	G!GWCC	5	1209; 1878; 1893; 4354; 4799
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1952; 3744
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	1129; 1564; 3984; 4416
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	5214
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	4	878; 2117; 3318; 4950
Eco88I	C!YCGRG	3	1337; 1424; 1636
Eco91I	G!GTNACC	1	1818
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	7	360; 611; 1679; 3567; 3660; 4270; 4675
Eco147I	AGG!CCT	1	3659
EcoHI	!CCSGG	8	1191; 1423; 1424; 1889; 3840; 4000; 4613; 5377
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	6	1129; 1564; 2071; 3984; 4416; 4678
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	937; 4621; 5214
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	1	1818
Eco0109I	RG!GNCCY	3	1665; 1893; 4936
EcoRI	G!AATC	0	
EcoRII	!CCWGG	27	88; 281; 794; 842; 938; 953; 1082; 1456; 1463; 1751; 1880; 2003; 2048; 2078; 2141; 2262; 2300; 2378; 3372; 3427; 3444; 4223; 4802; 4905; 5595; 5608; 5729
EcoRV	GAT!ATC	1	1356
EcoT14I	C!CWWGG	7	360; 611; 1679; 3567; 3660; 4270; 4675
EcoT22I	ATGCA!T	3	3410; 3482; 5813
EcoT38I	GRGCY!C	3	3029; 4203; 4913
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	2	1453; 3839
EheI	GGC!GCC	2	1453; 3839
ErhI	C!CWWGG	7	360; 611; 1679; 3567; 3660; 4270; 4675
EsaBC3I	TC!GA	18	762; 789; 1257; 1339; 1374; 1557; 2013; 2988; 3679; 3952; 4108; 4132; 4168; 4330; 4521; 4566; 4821; 5659
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	33	304; 364; 615; 651; 657; 669; 747; 813; 893; 1104; 1392; 1485; 1590; 1713; 1740; 1864; 1914; 2151; 2193; 2259; 3268; 3408; 3480; 3571; 3712; 4057; 4243; 4274; 4300; 4656; 5040; 5760; 5811
Fail	YA!TR	76	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 649; 655; 667; 745; 811; 891; 909; 1102; 1155; 1205; 1345; 1390; 1483; 1502; 1588; 1711; 1738; 1850; 1862; 1912; 2149; 2191; 2257; 2429; 2500; 2510; 2576; 2621; 2826; 3254; 3266; 3397; 3406; 3469; 3478; 3502; 3569; 3593; 3710; 3774; 4055; 4080; 4241; 4272; 4298; 4370; 4586; 4654; 4732; 4784; 4945; 4962; 4964; 4966; 5038; 5316; 5505; 5621; 5694; 5758; 5809
FalI	AAGNNNNNCTNNNNNNNNNNNN!	3	888; 1419; 4178
FalI	!NNNNNNNNAAGNNNNNCTT	3	856; 1387; 4146
FaqI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1594; 1906; 3989; 4521; 4630
FaqI	!NNNNNNNNNNNNNGTCCC	4	3354; 3426; 3490; 4785
FatI	!CATG	33	300; 360; 611; 647; 653; 665; 743; 809; 889; 1100; 1388; 1481; 1586; 1709; 1736; 1860; 1910; 2147; 2189; 2255; 3264; 3404; 3476; 3567; 3708; 4053; 4239; 4270; 4296; 4652; 5036; 5756; 5807
FauI	CCCGCNNNN!	10	93; 119; 286; 1077; 1179; 3160; 3515; 3536; 4732; 4864
FauI	!NNNNNNGCGGG	8	1114; 1401; 1952; 3091; 3961; 4498; 4636; 4783
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2495
FblI	GT!MKAC	2	1199; 1373
FmuI	GGNC!C	19	86; 279; 772; 1015; 1107; 1128; 1212; 1430; 1518; 1668; 1881; 1896; 2443; 2948; 4357; 4802; 4848; 4906; 4939

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	42	768; 819; 963; 1080; 1261; 1361; 1624; 1654; 1932; 2033; 2068; 2112; 2247; 2370; 2615; 3134; 3156; 3170; 3608; 3747; 3799; 3810; 3900; 3905; 3942; 3983; 4070; 4073; 4076; 4312; 4408; 4449; 4463; 4577; 4916; 4931; 5142; 5348; 5351; 5416; 5559; 5714
FokI	GGATGNNNNNNNNNN!	6	1360; 2292; 3705; 4162; 4187; 4641
FokI	!NNNNNNNNNNNNNNCATCC	10	690; 778; 835; 990; 1519; 1852; 2149; 2194; 2362; 3511
FriOI	GRGCY!C	3	3029; 4203; 4913
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3940
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	10	592; 1298; 2469; 2486; 2687; 3105; 3661; 4676; 5010; 5263
FspEI	CCNNNNNNNNNNNN!	205	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 690; 720; 737; 751; 784; 798; 816; 840; 855; 885; 918; 945; 960; 979; 1015; 1062; 1081; 1096; 1119; 1141; 1164; 1184; 1205; 1225; 1251; 1293; 1309; 1338; 1374; 1398; 1413; 1434; 1450; 1468; 1512; 1530; 1549; 1564; 1587; 1618; 1649; 1674; 1690; 1716; 1734; 1749; 1765; 1779; 1795; 1821; 1836; 1866; 1882; 1903; 1921; 1938; 1959; 2016; 2040; 2058; 2084; 2103; 2122; 2143; 2169; 2190; 2224; 2241; 2265; 2286; 2313; 2351; 2370; 2388; 2406; 2451; 2467; 2490; 2521; 2560; 2574; 2715; 2810; 2834; 2857; 2880; 2898; 2920; 2941; 2960; 2979; 3008; 3029; 3043; 3069; 3157; 3183; 3232; 3273; 3291; 3330; 3346; 3384; 3441; 3456; 3513; 3533; 3547; 3564; 3578; 3615; 3630; 3673; 3756; 3823; 3854; 3874; 3889; 3934; 3948; 4014; 4028; 4047; 4063; 4104; 4124; 4171; 4221; 4237; 4257; 4282; 4302; 4325; 4352; 4370; 4396; 4436; 4462; 4486; 4542; 4556; 4584; 4627; 4648; 4683; 4727; 4815; 4839; 4861; 4881; 4897; 4918; 4932; 4951; 5035; 5055; 5083; 5098; 5132; 5174; 5201; 5216; 5261; 5285; 5299; 5321; 5347; 5367; 5391; 5417; 5465; 5484; 5503; 5529; 5564; 5609; 5639; 5653; 5704; 5718; 5743; 5759; 5780; 5809
FspEI	!NNNNNNNNNNNNNNNGG	165	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 607; 625; 652; 694; 715; 739; 781; 800; 829; 865; 902; 925; 944; 974; 995; 1022; 1061; 1087; 1106; 1178; 1204; 1252; 1291; 1310; 1330; 1364; 1385; 1410; 1432; 1450; 1468; 1489; 1514; 1547; 1573; 1615; 1648; 1666; 1738; 1763; 1786; 1828; 1861; 1916; 1936; 1966; 1990; 2008; 2035; 2060; 2078; 2104; 2128; 2188; 2228; 2249; 2272; 2346; 2365; 2394; 2423; 2455; 2509; 2609; 2678; 2786; 2835; 2857; 2885; 2921; 2966; 2995; 3031; 3050; 3078; 3098; 3161; 3184; 3292; 3324; 3342; 3371; 3414; 3443; 3554; 3583; 3626; 3647; 3675; 3708; 3728; 3753; 3780; 3805; 3827; 3855; 3881; 3902; 3953; 3974; 3992; 4040; 4076; 4132; 4157; 4181; 4210; 4233; 4257; 4283; 4305; 4324; 4349; 4389; 4425; 4490; 4575; 4599; 4628; 4662; 4683; 4703; 4748; 4775; 4794; 4827; 4879; 4910; 4937; 4989; 5087; 5158; 5203; 5264; 5329; 5363; 5389; 5407; 5443; 5513; 5536; 5558; 5582; 5615; 5663; 5698; 5716; 5773
Fsp4HI	GC!NGC	42	768; 819; 963; 1080; 1261; 1361; 1624; 1654; 1932; 2033; 2068; 2112; 2247; 2370; 2615; 3134; 3156; 3170; 3608; 3747; 3799; 3810; 3900; 3905; 3942; 3983; 4070; 4073; 4076; 4312; 4408; 4449; 4463; 4577; 4916; 4931; 5142; 5348; 5351; 5416; 5559; 5714
GdiII	C!GGCCR	3	1952; 2076; 3744
GdiII	Y!GGCCG	6	1779; 1887; 1952; 3744; 4309; 4336
GlaI	GC!GC	25	596; 1364; 1453; 1930; 2347; 3103; 3111; 3137; 3159; 3168; 3181; 3212; 3831; 3839; 3903; 3940; 4206; 4466; 4642; 4728; 5131; 5240; 5414; 5514; 5581
GluI	GC!NGC	42	768; 819; 963; 1080; 1261; 1361; 1624; 1654; 1932; 2033; 2068; 2112; 2247; 2370; 2615; 3134; 3156; 3170; 3608; 3747; 3799; 3810; 3900; 3905; 3942; 3983; 4070; 4073; 4076; 4312; 4408; 4449; 4463; 4577; 4916; 4931; 5142; 5348; 5351; 5416; 5559; 5714
GsaI	CCCAG!C	5	1735; 2312; 3385; 3457; 5456
GsaI	GCTGG!G	2	1044; 4346
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	2	2071; 4678
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	937; 4621
HaeI	WGG!CCW	10	1048; 1279; 1684; 2026; 2383; 3659; 3920; 5282; 5734; 5745
HaeII	RGCG!Y	6	598; 1455; 3105; 3113; 3841; 5516

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIII	GG!CC	39	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1399; 1429; 1516; 1666; 1684; 1781; 1889; 1954; 2026; 2078; 2383; 2441; 2804; 2946; 3601; 3607; 3616; 3659; 3746; 3920; 4311; 4338; 4847; 4904; 4937; 5282; 5716; 5734; 5745
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2513; 4034
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2479; 4000
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2512; 4033
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2481; 4002
HapII	C!CGG	26	601; 1193; 1325; 1385; 1400; 1425; 1808; 1890; 2438; 2480; 3056; 3743; 3820; 3842; 3870; 4001; 4091; 4158; 4339; 4614; 4622; 4714; 5188; 5378; 5404; 5551
HgaI	GACGCNNNNN!	3	526; 4548; 4627
HgaI	!NNNNNNNNNGCGTC	5	1185; 1861; 3171; 5066; 5644
HhaI	GCG!C	25	597; 1365; 1454; 1931; 2348; 3104; 3112; 3138; 3160; 3169; 3182; 3213; 3832; 3840; 3904; 3941; 4207; 4467; 4643; 4729; 5132; 5241; 5415; 5515; 5582
HinI	GR!CGYC	9	122; 175; 258; 444; 1196; 1452; 3838; 4540; 4619
Hin1II	CATG!	33	304; 364; 615; 651; 657; 669; 747; 813; 893; 1104; 1392; 1485; 1590; 1713; 1740; 1864; 1914; 2151; 2193; 2259; 3268; 3408; 3480; 3571; 3712; 4057; 4243; 4274; 4300; 4656; 5040; 5760; 5811
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	4	1398; 2351; 2512; 4033
Hin4I	!NNNNNNNNGABNNNNNRTC	3	2480; 4001; 4031
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	2512; 4033; 4063
Hin4I	!NNNNNNNNGAYNNNNNVTC	4	1366; 2319; 2480; 4001
Hin6I	G!CGC	25	595; 1363; 1452; 1929; 2346; 3102; 3110; 3136; 3158; 3167; 3180; 3211; 3830; 3838; 3902; 3939; 4205; 4465; 4641; 4727; 5130; 5239; 5413; 5513; 5580
HinP1I	G!CGC	25	595; 1363; 1452; 1929; 2346; 3102; 3110; 3136; 3158; 3167; 3180; 3211; 3830; 3838; 3902; 3939; 4205; 4465; 4641; 4727; 5130; 5239; 5413; 5513; 5580
HincII	GTY!RAC	2	1374; 2601
HindII	GTY!RAC	2	1374; 2601
HindIII	A!AGCTT	0	
Hinfi	G!ANTC	19	410; 749; 899; 1226; 1328; 1495; 1804; 2152; 2434; 2881; 2903; 3313; 4323; 4457; 4509; 4567; 4604; 5386; 5782
HpaI	GTT!AAC	1	2601
HpaII	C!CGG	26	601; 1193; 1325; 1385; 1400; 1425; 1808; 1890; 2438; 2480; 3056; 3743; 3820; 3842; 3870; 4001; 4091; 4158; 4339; 4614; 4622; 4714; 5188; 5378; 5404; 5551
HphI	GGTGANNNNNNNN!	5	376; 1005; 1822; 4909; 5025
HphI	!NNNNNNNTCACC	9	894; 1530; 1563; 1812; 1914; 1935; 2079; 2955; 4016
Hpy8I	GTN!NAC	17	201; 539; 577; 681; 701; 996; 1200; 1209; 1374; 2205; 2393; 2454; 2601; 2885; 2902; 2957; 5444
Hpy99I	CGWCG!	13	1258; 1372; 1375; 1417; 1513; 2002; 3928; 3956; 4250; 4265; 4542; 4927; 5660
Hpy166II	GTN!NAC	17	201; 539; 577; 681; 701; 996; 1200; 1209; 1374; 2205; 2393; 2454; 2601; 2885; 2902; 2957; 5444
Hpy188I	TCN!GA	15	585; 708; 988; 1333; 1490; 3012; 3621; 3805; 4149; 4502; 4603; 5082; 5216; 5569; 5647
Hpy188III	TC!NNGA	32	981; 1146; 1185; 1325; 1337; 1636; 1797; 1876; 1911; 2190; 2325; 2341; 2486; 3265; 3317; 3630; 3683; 3856; 4172; 4181; 4264; 4320; 4364; 4454; 4487; 4556; 5037; 5111; 5194; 5292; 5390; 5524
HpyAV	CCTTCNNNNNN!	11	789; 837; 882; 1620; 1731; 2144; 2187; 2406; 4483; 4590; 5269
HpyAV	!NNNNNGAAGG	11	709; 1081; 1485; 2280; 3071; 3966; 4695; 4711; 4894; 5211; 5521
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 678; 1830; 2235; 2929; 4218; 4334; 4442; 4765; 5256; 5726; 5797
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 977; 1253; 1742; 1997; 2201; 2898; 2910; 2953; 3063; 3954; 4141; 4922; 5055
HpyCH4V	TG!CA	22	651; 701; 1023; 1139; 1394; 2283; 2587; 2614; 2682; 3399; 3408; 3471; 3480; 3595; 3671; 3730; 3889; 4064; 4078; 5148; 5444; 5811
HpyF3I	C!TNAG	12	620; 878; 1175; 1330; 2117; 2342; 3318; 3620; 4501; 4950; 5073; 5482

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; 657; 1088; 1400; 1426; 1458; 1529; 1650; 1753; 1937; 2032; 3065; 3095; 3122; 3164; 3405; 3477; 3528; 3607; 3829; 3913; 3936; 4075; 4198; 4281; 4548; 4735; 4939; 5138; 5710
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 1196; 1452; 3838; 4540; 4619
Hsp92II	CATG!	33	304; 364; 615; 651; 657; 669; 747; 813; 893; 1104; 1392; 1485; 1590; 1713; 1740; 1864; 1914; 2151; 2193; 2259; 3268; 3408; 3480; 3571; 3712; 4057; 4243; 4274; 4300; 4656; 5040; 5760; 5811
HspAI	G!CGC	25	595; 1363; 1452; 1929; 2346; 3102; 3110; 3136; 3158; 3167; 3180; 3211; 3830; 3838; 3902; 3939; 4205; 4465; 4641; 4727; 5130; 5239; 5413; 5513; 5580
KasI	G!GCGCC	2	1451; 3837
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1324
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	2495
KspAI	GTT!AAC	1	2601
Kzo9I	!GATC	31	585; 983; 1133; 1159; 1333; 1706; 1916; 2291; 2321; 2327; 2363; 2411; 2473; 2482; 2495; 3675; 3679; 3698; 4009; 4087; 4168; 4177; 4255; 4631; 4647; 5006; 5018; 5096; 5104; 5115; 5190
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	4	623; 2050; 4182; 4392
LpnI	RGCI!GCY	6	596; 1453; 3103; 3111; 3839; 5514
LpnPI	CCDGNNNNNNNNN!	88	102; 295; 614; 751; 808; 856; 890; 952; 967; 1028; 1096; 1120; 1144; 1206; 1293; 1338; 1398; 1413; 1438; 1470; 1531; 1555; 1684; 1717; 1745; 1765; 1780; 1821; 1882; 1903; 2017; 2052; 2084; 2129; 2143; 2169; 2233; 2276; 2314; 2354; 2392; 2413; 2451; 2493; 2575; 2880; 3069; 3292; 3330; 3346; 3386; 3441; 3458; 3558; 3643; 3756; 3833; 3855; 3878; 4014; 4028; 4047; 4104; 4171; 4221; 4237; 4294; 4352; 4561; 4627; 4651; 4727; 4816; 4919; 4952; 5183; 5201; 5347; 5367; 5391; 5417; 5466; 5564; 5609; 5639; 5718; 5743; 5780
LpnPI	!NNNNNNNNNNNNNCHGG	73	75; 268; 552; 586; 781; 829; 925; 1026; 1069; 1178; 1204; 1291; 1310; 1370; 1410; 1443; 1563; 1584; 1738; 1763; 1793; 1861; 1990; 2035; 2065; 2128; 2228; 2249; 2287; 2365; 2407; 2465; 2921; 3041; 3098; 3161; 3359; 3371; 3431; 3443; 3675; 3720; 3763; 3805; 3827; 3855; 3902; 3964; 3986; 4076; 4143; 4166; 4210; 4305; 4324; 4349; 4498; 4599; 4642; 4699; 4789; 4892; 4919; 4937; 5173; 5210; 5363; 5389; 5529; 5547; 5582; 5663; 5716
Lsp1109I	GCAGCNNNNNNNN!	8	830; 1272; 2626; 3911; 3953; 4474; 4927; 5427
Lsp1109I	!NNNNNNNNNNNGCTGC	12	949; 1610; 1640; 2019; 2054; 2098; 3120; 3785; 3969; 4062; 5128; 5334
LweI	GCATCNNNNN!	11	857; 1541; 1574; 1802; 2171; 2654; 3417; 3489; 4137; 4201; 4476
LweI	!NNNNNNNNNGATGC	10	357; 1010; 1049; 1178; 1407; 2270; 3796; 4051; 4267; 5659
MabI	A!CCWGGT	1	3427
MaeI	C!TAG	10	592; 1298; 2469; 2486; 2687; 3105; 3661; 4676; 5010; 5263
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 977; 1253; 1742; 1997; 2201; 2898; 2910; 2953; 3063; 3954; 4141; 4922; 5055
MaeIII	!GTNAC	18	61; 148; 497; 900; 1569; 1810; 1818; 1972; 2197; 2626; 3127; 3139; 3958; 4264; 4954; 5220; 5336; 5399
MalI	GA!TC	31	587; 985; 1135; 1161; 1335; 1708; 1918; 2293; 2323; 2329; 2365; 2413; 2475; 2484; 2497; 3677; 3681; 3700; 4011; 4089; 4170; 4179; 4257; 4633; 4649; 5008; 5020; 5098; 5106; 5117; 5192
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3262; 4451
MbiI	GAG!CGG	4	1959; 2103; 3098; 4505
MboI	!GATC	31	585; 983; 1133; 1159; 1333; 1706; 1916; 2291; 2321; 2327; 2363; 2411; 2473; 2482; 2495; 3675; 3679; 3698; 4009; 4087; 4168; 4177; 4255; 4631; 4647; 5006; 5018; 5096; 5104; 5115; 5190

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MboII	GAAGANNNNNNNN!	12	640; 925; 1038; 1707; 1926; 2067; 2331; 3094; 3322; 4199; 4409; 5028
MboII	!NNNNNNNTCTTC	6	1425; 2118; 4489; 4656; 4856; 5099
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2588
MflI	R!GATCY	13	585; 1159; 1333; 1916; 2473; 2482; 4009; 4255; 4647; 5006; 5018; 5104; 5115
MhII	GDGCH!C	15	676; 703; 736; 1313; 1562; 1646; 1835; 3029; 3784; 3877; 3951; 4141; 4203; 4913; 5446
MIsI	TGG!CCA	3	1279; 2026; 3920
MluI	A!CGCGT	1	2724
MluNI	TGG!CCA	3	1279; 2026; 3920
MlyI	GAGTCNNNNN!	5	908; 2161; 2443; 2890; 3322
MlyI	!NNNNNGACTC	6	404; 1322; 1798; 2897; 4503; 5380
Mly113I	GG!CGCC	2	1452; 3838
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1031; 2931
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	5363; 5547
MnII	CCTCNNNNNNN!	22	782; 961; 976; 1192; 1303; 1449; 1546; 1785; 1864; 1918; 1930; 2055; 2348; 2394; 2454; 2557; 3621; 4439; 4645; 4959; 5329; 5653
MnII	!NNNNNNGAGG	28	541; 663; 702; 723; 756; 873; 982; 1038; 1227; 1260; 1506; 1522; 1632; 1656; 1836; 2112; 2517; 2982; 3313; 3591; 3634; 3649; 3689; 3753; 3889; 4246; 4676; 5579
Mph1103I	ATGCA!T	3	3410; 3482; 5813
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1324
MroNI	G!CCGGC	4	1399; 3055; 4338; 4621
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	3	1279; 2026; 3920
MseI	T!TAA	19	7; 638; 863; 1319; 1979; 2539; 2600; 2721; 2742; 2753; 2765; 2776; 2793; 2891; 3162; 4981; 4995; 5000; 5052
MslI	CAYNN!NNRTG	7	365; 613; 652; 1057; 1798; 2254; 4275
MspI	C!CGG	26	601; 1193; 1325; 1385; 1400; 1425; 1808; 1890; 2438; 2480; 3056; 3743; 3820; 3842; 3870; 4001; 4091; 4158; 4339; 4614; 4622; 4714; 5188; 5378; 5404; 5551
Msp20I	TGG!CCA	3	1279; 2026; 3920
MspA1I	CMG!CKG	6	1072; 2111; 3336; 3944; 5173; 5418
MspCI	C!TTAAG	0	
MspJI	CNNRRNNNNNNNNN!	298	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; 632; 646; 660; 678; 708; 726; 741; 756; 774; 807; 822; 850; 865; 889; 902; 918; 936; 950; 966; 979; 993; 1014; 1027; 1048; 1061; 1081; 1095; 1113; 1126; 1143; 1158; 1175; 1195; 1225; 1242; 1262; 1276; 1292; 1309; 1324; 1337; 1351; 1374; 1397; 1412; 1436; 1458; 1476; 1494; 1511; 1524; 1549; 1564; 1586; 1599; 1618; 1639; 1660; 1673; 1690; 1704; 1717; 1743; 1764; 1779; 1795; 1809; 1827; 1846; 1871; 1888; 1902; 1921; 1937; 1962; 1980; 2016; 2029; 2051; 2076; 2091; 2128; 2142; 2155; 2168; 2181; 2202; 2224; 2240; 2255; 2268; 2285; 2313; 2337; 2353; 2370; 2391; 2412; 2430; 2445; 2470; 2492; 2506; 2521; 2545; 2562; 2575; 2616; 2630; 2643; 2661; 2699; 2714; 2732; 2773; 2797; 2817; 2835; 2856; 2879; 2911; 2926; 2948; 2966; 2979; 3000; 3017; 3030; 3043; 3059; 3072; 3102; 3117; 3142; 3160; 3173; 3188; 3212; 3226; 3250; 3275; 3291; 3329; 3345; 3384; 3398; 3412; 3440; 3456; 3470; 3484; 3513; 3526; 3547; 3556; 3578; 3608; 3624; 3642; 3672; 3695; 3719; 3743; 3762; 3790; 3816; 3832; 3845; 3868; 3882; 3902; 3915; 3929; 3948; 3962; 3975; 3991; 4006; 4019; 4035; 4050; 4066; 4091; 4110; 4126; 4139; 4152; 4170; 4184; 4198; 4214; 4236; 4252; 4271; 4293; 4309; 4332; 4351; 4365; 4381; 4395; 4415; 4431; 4444; 4466; 4499; 4513; 4533; 4546; 4560; 4614; 4627; 4650; 4663; 4682; 4699; 4726; 4762; 4795; 4814; 4839; 4860; 4887; 4900; 4917; 4931; 4946; 4962; 5022; 5047; 5063; 5085; 5098; 5112; 5143; 5157; 5182; 5200; 5215; 5228; 5247; 5260; 5275; 5304; 5323; 5341; 5366; 5381; 5400; 5416; 5435; 5453; 5469; 5483; 5502; 5529; 5552; 5574; 5593; 5608; 5621; 5638; 5658; 5685; 5698; 5717; 5742; 5765; 5779; 5792; 5809

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	249	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 598; 625; 652; 682; 706; 724; 748; 767; 789; 829; 850; 876; 896; 925; 967; 1001; 1022; 1042; 1069; 1087; 1104; 1122; 1150; 1171; 1190; 1216; 1238; 1261; 1284; 1310; 1330; 1348; 1370; 1391; 1410; 1432; 1450; 1468; 1487; 1504; 1528; 1547; 1564; 1584; 1606; 1624; 1648; 1666; 1690; 1718; 1738; 1757; 1776; 1793; 1816; 1835; 1855; 1872; 1897; 1916; 1936; 1954; 1977; 1997; 2014; 2035; 2057; 2079; 2102; 2128; 2153; 2176; 2196; 2228; 2249; 2287; 2311; 2329; 2346; 2365; 2386; 2404; 2423; 2455; 2472; 2490; 2519; 2548; 2590; 2673; 2711; 2735; 2758; 2787; 2831; 2853; 2885; 2921; 2938; 2959; 2996; 3016; 3033; 3050; 3085; 3103; 3121; 3138; 3162; 3184; 3211; 3239; 3265; 3303; 3324; 3341; 3359; 3382; 3403; 3431; 3454; 3475; 3493; 3514; 3531; 3554; 3578; 3598; 3616; 3638; 3669; 3691; 3717; 3736; 3753; 3781; 3800; 3819; 3837; 3855; 3876; 3898; 3922; 3955; 3975; 3993; 4014; 4040; 4067; 4084; 4101; 4118; 4144; 4166; 4188; 4206; 4226; 4245; 4267; 4305; 4325; 4349; 4369; 4389; 4416; 4440; 4473; 4492; 4520; 4542; 4571; 4599; 4624; 4643; 4662; 4683; 4700; 4717; 4748; 4775; 4795; 4818; 4838; 4875; 4892; 4911; 4937; 4957; 4996; 5023; 5042; 5060; 5097; 5115; 5156; 5174; 5200; 5217; 5249; 5278; 5306; 5327; 5350; 5369; 5390; 5408; 5425; 5443; 5469; 5490; 5510; 5530; 5548; 5569; 5595; 5612; 5631; 5650; 5679; 5698; 5716; 5735; 5753; 5771; 5794
MspR9I	CC!NGG	35	90; 283; 796; 844; 940; 955; 1084; 1193; 1425; 1426; 1458; 1465; 1753; 1882; 1891; 2005; 2050; 2080; 2143; 2264; 2302; 2380; 3374; 3429; 3446; 3842; 4002; 4225; 4615; 4804; 4907; 5379; 5597; 5610; 5731
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	2588
MvaI	CC!WGG	27	90; 283; 796; 844; 940; 955; 1084; 1458; 1465; 1753; 1882; 2005; 2050; 2080; 2143; 2264; 2302; 2380; 3374; 3429; 3446; 4225; 4804; 4907; 5597; 5610; 5731
Mva1269I	GAATGCN!	1	2589
Mva1269I	G!CATTC	1	2682
MvnI	CG!CG	19	60; 1363; 1408; 1691; 1931; 2726; 2762; 3138; 3158; 3182; 3213; 3904; 4205; 4643; 4727; 4790; 4859; 5132; 5713
MvrI	CGAT!CG	0	
MwoI	GCNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 657; 1088; 1400; 1426; 1458; 1529; 1650; 1753; 1937; 2032; 3065; 3095; 3122; 3164; 3405; 3477; 3528; 3607; 3829; 3913; 3936; 4075; 4198; 4281; 4548; 4735; 4939; 5138; 5710
NaeI	GCC!GGC	4	1401; 3057; 4340; 4623
NarI	GG!CGCC	2	1452; 3838
NciI	CC!SGG	8	1193; 1425; 1426; 1891; 3842; 4002; 4615; 5379
NcoI	C!CATGG	4	360; 611; 3567; 4270
NdeI	CA!TATG	1	234
NdeII	!GATC	31	585; 983; 1133; 1159; 1333; 1706; 1916; 2291; 2321; 2327; 2363; 2411; 2473; 2482; 2495; 3675; 3679; 3698; 4009; 4087; 4168; 4177; 4255; 4631; 4647; 5006; 5018; 5096; 5104; 5115; 5190
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	3	280; 1827; 1917
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	740
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	776
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	3	244; 1791; 1881
NgoMIV	G!CCGGC	4	1399; 3055; 4338; 4621
NheI	G!CTAGC	1	591
NlaIII	CATG!	33	304; 364; 615; 651; 657; 669; 747; 813; 893; 1104; 1392; 1485; 1590; 1713; 1740; 1864; 1914; 2151; 2193; 2259; 3268; 3408; 3480; 3571; 3712; 4057; 4243; 4274; 4300; 4656; 5040; 5760; 5811
NlaIV	GGN!NCC	30	467; 675; 735; 1126; 1383; 1453; 1462; 1603; 1634; 1667; 1894; 2107; 2250; 2306; 2373; 2442; 2475; 2993; 3014; 3026; 3217; 3378; 3450; 3839; 3874; 4722; 4801; 4846; 5689; 5728
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	2109; 2670; 2985; 4577
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	5	347; 1000; 1453; 1780; 5649
Nli3877I	CYCGR!G	3	1341; 1428; 1640
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1980; 3627; 4063
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1016; 3592



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmeDI	RCCGGYNNNNNNNN!	6	612; 1411; 3067; 4169; 4350; 4633
NmeDI	!NNNNNNNNNNNNRCCGGY	6	587; 1386; 3042; 4144; 4325; 4608
NmuCI	!GTSAC	9	900; 1569; 1810; 1818; 1972; 2197; 3127; 3958; 4264
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3940
NsiI	ATGCA!T	3	3410; 3482; 5813
NspI	RCATG!Y	6	651; 1392; 3408; 3480; 4243; 5760
NspV	TT!CGAA	1	4520
OliI	CACNN!NNGTG	1	613
PabI	GTA!C	17	220; 245; 300; 333; 384; 541; 665; 815; 1067; 1550; 1742; 1772; 1786; 2225; 2261; 2354; 4145
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3408; 3480; 4243
PaeR7I	C!TCGAG	1	1337
PagI	T!CATGA	4	1910; 2189; 3264; 5036
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	843; 4803; 4906
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	3659
PciI	A!CATGT	1	5756
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	4	623; 2050; 4182; 4392
PcsI	WCGNNNN!NNNCGW	9	1262; 1364; 1412; 4132; 4209; 4452; 4526; 4919; 5437
PctI	GAATGCN!	1	2589
PctI	G!CATTC	1	2682
PdiI	GCC!GGC	4	1401; 3057; 4340; 4623
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	8	749; 1226; 1495; 4323; 4457; 4567; 4604; 5782
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	2	1816; 3956
PfIMI	CCANNNN!NTGG	1	1218
PfoI	T!CCNGGA	2	953; 4613
PhoI	GG!CC	39	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1399; 1429; 1516; 1666; 1684; 1781; 1889; 1954; 2026; 2078; 2383; 2441; 2804; 2946; 3601; 3607; 3616; 3659; 3746; 3920; 4311; 4338; 4847; 4904; 4937; 5282; 5716; 5734; 5745
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	1	4219
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	3784; 4039
PleI	GAGTCNNNN!	5	907; 2160; 2442; 2889; 3321
PleI	!NNNNNGACTC	6	404; 1322; 1798; 2897; 4503; 5380
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2920
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	5050
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	1	5082
PpiI	!NNNNNNNGAACNNNNNCTC	1	2888
PpsI	GAGTCNNNN!	5	907; 2160; 2442; 2889; 3321
PpsI	!NNNNNGACTC	6	404; 1322; 1798; 2897; 4503; 5380
Ppu10I	A!TGCAT	3	3406; 3478; 5809
Ppu21I	YAC!GTR	3	340; 2954; 4142
PpuMI	RG!GWCCY	1	1893
PscI	A!CATGT	1	5756
PshAI	GACNN!NNGTC	1	1252
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2621; 2826
Psp03I	GGWC!C	5	1212; 1881; 1896; 4357; 4802
Psp5II	RG!GWCCY	1	1893
Psp6I	!CCWGG	27	88; 281; 794; 842; 938; 953; 1082; 1456; 1463; 1751; 1880; 2003; 2048; 2078; 2141; 2262; 2300; 2378; 3372; 3427; 3444; 4223; 4802; 4905; 5595; 5608; 5729
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	1818
PspGI	!CCWGG	27	88; 281; 794; 842; 938; 953; 1082; 1456; 1463; 1751; 1880; 2003; 2048; 2078; 2141; 2262; 2300; 2378; 3372; 3427; 3444; 4223; 4802; 4905; 5595; 5608; 5729
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	30	467; 675; 735; 1126; 1383; 1453; 1462; 1603; 1634; 1667; 1894; 2107; 2250; 2306; 2373; 2442; 2475; 2993; 3014; 3026; 3217; 3378; 3450; 3839; 3874; 4722; 4801; 4846; 5689; 5728
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 3568; 4567
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3970
PspPI	G!GNCC	19	83; 276; 769; 1012; 1104; 1125; 1209; 1427; 1515; 1665; 1878; 1893; 2440; 2945; 4354; 4799; 4845; 4903; 4936
PspPPI	RG!GWCCY	1	1893
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	5	1475; 1750; 3391; 3463; 4969
PspPRI	!NNNNNNNNNNNNNNCTGRGG	5	864; 1292; 2103; 3304; 4499
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	3	1668; 1896; 4939
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	3	1286; 4939; 5347
PsuI	R!GATCY	13	585; 1159; 1333; 1916; 2473; 2482; 4009; 4255; 4647; 5006; 5018; 5104; 5115
PsyI	GACN!NNGTC	2	1816; 3956
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	3336; 3944
RcaI	T!CATGA	4	1910; 2189; 3264; 5036
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	4353
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	2	1840; 2567
RleAI	!NNNNNNNNNTGTGGG	1	1493
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	17	219; 244; 299; 332; 383; 540; 664; 814; 1066; 1549; 1741; 1771; 1785; 2224; 2260; 2353; 4144
RsaNI	G!TAC	17	218; 243; 298; 331; 382; 539; 663; 813; 1065; 1548; 1740; 1770; 1784; 2223; 2259; 2352; 4143
RseI	CAYNN!NNRTG	7	365; 613; 652; 1057; 1798; 2254; 4275
RsrII	CG!GWCCG	1	4354
Rsr2I	CG!GWCCG	1	4354
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SaI	G!TCGAC	1	1372
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	4	623; 2050; 4182; 4392
SaqAI	T!TAA	19	7; 638; 863; 1319; 1979; 2539; 2600; 2721; 2742; 2753; 2765; 2776; 2793; 2891; 3162; 4981; 4995; 5000; 5052
SatI	GC!NGC	42	768; 819; 963; 1080; 1261; 1361; 1624; 1654; 1932; 2033; 2068; 2112; 2247; 2370; 2615; 3134; 3156; 3170; 3608; 3747; 3799; 3810; 3900; 3905; 3942; 3983; 4070; 4073; 4076; 4312; 4408; 4449; 4463; 4577; 4916; 4931; 5142; 5348; 5351; 5416; 5559; 5714
Sau96I	G!GNCC	19	83; 276; 769; 1012; 1104; 1125; 1209; 1427; 1515; 1665; 1878; 1893; 2440; 2945; 4354; 4799; 4845; 4903; 4936

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sau3AI	!GATC	31	585; 983; 1133; 1159; 1333; 1706; 1916; 2291; 2321; 2327; 2363; 2411; 2473; 2482; 2495; 3675; 3679; 3698; 4009; 4087; 4168; 4177; 4255; 4631; 4647; 5006; 5018; 5096; 5104; 5115; 5190
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	1	2353
SchI	GAGTCNNNNN!	5	908; 2161; 2443; 2890; 3322
SchI	!NNNNNGACTC	6	404; 1322; 1798; 2897; 4503; 5380
SciI	CTC!GAG	1	1339
ScrFI	CC!NGG	35	90; 283; 796; 844; 940; 955; 1084; 1193; 1425; 1426; 1458; 1465; 1753; 1882; 1891; 2005; 2050; 2080; 2143; 2264; 2302; 2380; 3374; 3429; 3446; 3842; 4002; 4225; 4615; 4804; 4907; 5379; 5597; 5610; 5731
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	9	1050; 1118; 1515; 2310; 2448; 3416; 3488; 3657; 5599
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	2319; 3993; 4478
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	2	279; 1826
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	2	245; 1792
SduI	GDGCH!C	15	676; 703; 736; 1313; 1562; 1646; 1835; 3029; 3784; 3877; 3951; 4141; 4203; 4913; 5446
SelI	!CGCG	19	58; 1361; 1406; 1689; 1929; 2724; 2760; 3136; 3156; 3180; 3211; 3902; 4203; 4641; 4725; 4788; 4857; 5130; 5711
SetI	ASST!	81	125; 137; 178; 261; 308; 342; 447; 552; 568; 635; 662; 758; 808; 829; 980; 1115; 1133; 1184; 1252; 1256; 1271; 1295; 1344; 1612; 1625; 1723; 1745; 1883; 1898; 1910; 1942; 1991; 2000; 2044; 2062; 2069; 2084; 2179; 2204; 2222; 2398; 2528; 2549; 2558; 2570; 2619; 2786; 2901; 2913; 2956; 2993; 3043; 3066; 3190; 3338; 3433; 3626; 3739; 3867; 3946; 3957; 4029; 4100; 4144; 4404; 4550; 4594; 4925; 4956; 5015; 5058; 5201; 5222; 5321; 5458; 5473; 5492; 5504; 5548; 5594; 5645
SexAI	A!CCWGGT	1	3427
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	11	857; 1541; 1574; 1802; 2171; 2654; 3417; 3489; 4137; 4201; 4476
SfaNI	!NNNNNNNNNGATGC	10	357; 1010; 1049; 1178; 1407; 2270; 3796; 4051; 4267; 5659
Sfcl	C!TRYAG	4	1935; 3173; 5300; 5491
SfiI	GGCCNNNN!NGGCC	1	3613
SfoI	GGC!GCC	2	1453; 3839
Sfr274I	C!TCGAG	1	1337
Sfr303I	CCGC!GG	0	
Sful	TT!CGAA	1	4520
SgeI	CNNGNNNNNNNN!	239	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 660; 678; 708; 732; 750; 765; 807; 822; 855; 889; 902; 930; 951; 966; 993; 1027; 1048; 1068; 1081; 1095; 1113; 1126; 1143; 1158; 1176; 1197; 1231; 1269; 1292; 1310; 1337; 1351; 1374; 1397; 1412; 1436; 1458; 1476; 1494; 1524; 1554; 1569; 1590; 1611; 1639; 1660; 1674; 1692; 1716; 1744; 1764; 1779; 1802; 1820; 1854; 1873; 1888; 1902; 1923; 1938; 1962; 1980; 2016; 2029; 2051; 2076; 2091; 2128; 2142; 2155; 2168; 2202; 2232; 2255; 2268; 2289; 2313; 2337; 2353; 2370; 2391; 2412; 2430; 2445; 2481; 2498; 2545; 2574; 2616; 2699; 2737; 2773; 2857; 2879; 2911; 2948; 2966; 2985; 3000; 3042; 3059; 3076; 3111; 3125; 3142; 3164; 3188; 3212; 3277; 3291; 3329; 3345; 3385; 3398; 3417; 3440; 3457; 3470; 3489; 3519; 3540; 3557; 3580; 3615; 3642; 3673; 3695; 3721; 3743; 3762; 3790; 3826; 3845; 3868; 3882; 3902; 3915; 3929; 3948; 3962; 3981; 4013; 4027; 4040; 4066; 4097; 4110; 4127; 4144; 4158; 4175; 4193; 4208; 4236; 4252; 4271; 4293; 4309; 4332; 4351; 4376; 4395; 4415; 4442; 4466; 4499; 4518; 4546; 4560; 4626; 4650; 4665; 4688; 4709; 4726; 4774; 4801; 4815; 4844; 4868; 4901; 4918; 4938; 4951; 4964; 5022; 5049; 5068; 5098; 5123; 5143; 5157; 5182; 5200; 5237; 5275; 5304; 5332; 5346; 5366; 5381; 5402; 5416; 5435; 5453; 5469; 5509; 5529; 5556; 5574; 5595; 5608; 5621; 5638; 5662; 5685; 5717; 5742; 5769; 5791

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	210	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 634; 652; 682; 706; 724; 748; 781; 829; 863; 904; 925; 967; 1001; 1022; 1042; 1069; 1087; 1108; 1132; 1150; 1171; 1205; 1243; 1266; 1284; 1311; 1348; 1371; 1393; 1410; 1432; 1450; 1468; 1498; 1528; 1547; 1564; 1585; 1613; 1634; 1657; 1676; 1696; 1718; 1738; 1764; 1783; 1801; 1828; 1847; 1867; 1897; 1916; 1936; 1954; 1990; 2014; 2035; 2057; 2102; 2128; 2153; 2176; 2206; 2229; 2249; 2287; 2311; 2335; 2365; 2386; 2404; 2424; 2455; 2472; 2519; 2548; 2590; 2673; 2711; 2747; 2831; 2853; 2885; 2922; 2940; 2959; 3016; 3033; 3050; 3085; 3103; 3123; 3143; 3162; 3186; 3251; 3303; 3359; 3391; 3414; 3431; 3463; 3493; 3514; 3531; 3554; 3589; 3616; 3647; 3669; 3695; 3717; 3736; 3764; 3800; 3819; 3842; 3863; 3881; 3898; 3922; 3955; 3987; 4014; 4040; 4071; 4101; 4118; 4144; 4167; 4188; 4210; 4230; 4250; 4267; 4306; 4325; 4350; 4369; 4389; 4416; 4440; 4473; 4492; 4520; 4542; 4600; 4624; 4643; 4662; 4683; 4700; 4748; 4775; 4795; 4818; 4842; 4875; 4892; 4912; 4938; 4996; 5023; 5042; 5072; 5097; 5117; 5156; 5174; 5211; 5249; 5278; 5306; 5327; 5355; 5376; 5409; 5427; 5483; 5503; 5530; 5548; 5569; 5595; 5612; 5636; 5659; 5691; 5716; 5743; 5765; 5794
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; 1486; 1818; 2985; 4772; 5565
SimI	!GACCC	5	106; 1700; 4266; 4834; 5082
SinI	G!GWCC	5	1209; 1878; 1893; 4354; 4799
SlaI	C!TCGAG	1	1337
SmaI	CCC!GGG	1	1426
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	7	365; 613; 652; 1057; 1798; 2254; 4275
SmlI	C!TYRAG	6	1183; 1337; 4229; 5111; 5388; 5650
SmoI	C!TYRAG	6	1183; 1337; 4229; 5111; 5388; 5650
SmuI	CCCGNNNN!	10	93; 119; 286; 1077; 1179; 3160; 3515; 3536; 4732; 4864
SmuI	!NNNNNNGCGGG	8	1114; 1401; 1952; 3091; 3961; 4498; 4636; 4783
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3408; 3480; 4243
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 1320; 2588; 2652; 2730; 2756; 2767; 3414; 3486; 3578; 4996
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	3659
SsiI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 932; 1070; 1172; 1361; 1689; 2109; 2211; 2457; 3153; 3156; 3170; 3260; 3508; 3520; 3529; 3541; 3551; 3562; 3608; 3747; 3810; 4312; 4357; 4423; 4449; 4574; 4577; 4725; 4857; 5164; 5308; 5804
SsiI	G!CGG	32	370; 403; 528; 767; 1079; 1121; 1408; 1931; 1959; 2103; 2246; 2369; 3098; 3125; 3213; 3323; 3904; 3968; 4069; 4072; 4352; 4407; 4505; 4643; 4790; 4930; 5173; 5418; 5539; 5558; 5685; 5713
SspI	AAT!ATT	2	2746; 3299
SspDI	G!GCGCC	2	1451; 3837
SspD5I	GGTGANNNNNNNN!	5	376; 1005; 1822; 4909; 5025
SspD5I	!NNNNNNNNNTCACC	9	893; 1529; 1562; 1811; 1913; 1934; 2078; 2954; 4015
SstI	GAGCT!C	0	
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	1	938
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 860; 1076; 1178; 1199; 1431; 1643; 1655; 3037; 3159; 3514; 3535; 3848; 4251; 4390; 4461; 4731; 4863; 5093; 5531
Sth132I	!NNNNNNNNNCGGG	25	15; 407; 470; 909; 1113; 1400; 1417; 1806; 1882; 1951; 3038; 3090; 3191; 3918; 3960; 3993; 4497; 4606; 4635; 4782; 4886; 4917; 5370; 5414; 5622

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sth302II	CC!GG	26	602; 1194; 1326; 1386; 1401; 1426; 1809; 1891; 2439; 2481; 3057; 3744; 3821; 3843; 3871; 4002; 4092; 4159; 4340; 4615; 4623; 4715; 5189; 5379; 5405; 5552
StrI	C!TCGAG	1	1337
StsI	GGATGNNNNNNNNNN!	6	1361; 2293; 3706; 4163; 4188; 4642
StsI	!NNNNNNNNNNNNNNCATCC	10	689; 777; 834; 989; 1518; 1851; 2148; 2193; 2361; 3510
StuI	AGG!CCT	1	3659
StyI	C!CWWGG	7	360; 611; 1679; 3567; 3660; 4270; 4675
StyD4I	!CCNGG	35	88; 281; 794; 842; 938; 953; 1082; 1191; 1423; 1424; 1456; 1463; 1751; 1880; 1889; 2003; 2048; 2078; 2141; 2262; 2300; 2378; 3372; 3427; 3444; 3840; 4000; 4223; 4613; 4802; 4905; 5377; 5595; 5608; 5729
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 678; 1830; 2235; 2929; 4218; 4334; 4442; 4765; 5256; 5726; 5797
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 980; 1256; 1745; 2000; 2204; 2901; 2913; 2956; 3066; 3957; 4144; 4925; 5058
TaqI	T!CGA	18	761; 788; 1256; 1338; 1373; 1556; 2012; 2987; 3678; 3951; 4107; 4131; 4167; 4329; 4520; 4565; 4820; 5658
TaqII	GACCGANNNNNNNNNN!	4	1675; 2858; 3875; 4543
TaqII	!NNNNNNNNNTCGGTC	1	4787
TaqII	CACCCANNNNNNNNNN!	4	751; 856; 1837; 2322
TaqII	!NNNNNNNNNTGGGTG	3	172; 3742; 4334
TasI	!AATT	11	18; 1320; 2588; 2652; 2730; 2756; 2767; 3414; 3486; 3578; 4996
TatI	W!GTACW	6	217; 297; 330; 381; 662; 2351
TauI	GCSG!C	21	770; 1082; 1363; 1934; 2249; 2372; 3158; 3172; 3610; 3749; 3812; 3907; 4072; 4075; 4314; 4410; 4451; 4579; 4933; 5561; 5716
TfiI	G!AWTC	8	749; 1226; 1495; 4323; 4457; 4567; 4604; 5782
TliI	C!TCGAG	1	1337
TruII	T!TAA	19	7; 638; 863; 1319; 1979; 2539; 2600; 2721; 2742; 2753; 2765; 2776; 2793; 2891; 3162; 4981; 4995; 5000; 5052
Tru9I	T!TAA	19	7; 638; 863; 1319; 1979; 2539; 2600; 2721; 2742; 2753; 2765; 2776; 2793; 2891; 3162; 4981; 4995; 5000; 5052
TscAI	CASTGNN!	9	1794; 1833; 2240; 2301; 2684; 3967; 5077; 5348; 5361
TseI	G!CWGC	21	818; 962; 1260; 1623; 1653; 2032; 2067; 2111; 2614; 3133; 3798; 3899; 3941; 3982; 4075; 4462; 4915; 5141; 5347; 5350; 5415
TsoI	TARCCANNNNNNNNNN!	2	2810; 3157
TsoI	!NNNNNNNNNTGGYTA	3	787; 2615; 4367
Tsp45I	!GTSAC	9	900; 1569; 1810; 1818; 1972; 2197; 3127; 3958; 4264
Tsp509I	!AATT	11	18; 1320; 2588; 2652; 2730; 2756; 2767; 3414; 3486; 3578; 4996
TspDTI	ATGAANNNNNNNNNN!	7	670; 1927; 2206; 2332; 2596; 3897; 4601
TspDTI	!NNNNNNNNNTTCAT	6	26; 798; 819; 4315; 4771; 4978
TspEI	!AATT	11	18; 1320; 2588; 2652; 2730; 2756; 2767; 3414; 3486; 3578; 4996
TspGWI	ACGGANNNNNNNNNN!	1	4713
TspGWI	!NNNNNNNNNTCCGT	1	2346
TspMI	C!CCGGG	1	1424
TspRI	CASTGNN!	9	1794; 1833; 2240; 2301; 2684; 3967; 5077; 5348; 5361
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	1	1975
TstI	GGANNNNNGTGNNNNNNNNNN!	1	2007
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	2	1816; 3956
Tth111II	CAARCAANNNNNNNNNN!	2	2434; 5165
Tth111III	!NNNNNNNNNTGYTTG	4	1702; 4273; 5133; 5172
UnbI	!GGNCC	19	82; 275; 768; 1011; 1103; 1124; 1208; 1426; 1514; 1664; 1877; 1892; 2439; 2944; 4353; 4798; 4844; 4902; 4935
Van9II	CCANNNN!NTGG	1	1218
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	699; 5442
VpaK11AI	!GGWCC	5	1208; 1877; 1892; 4353; 4798
VpaK11BI	G!GWCC	5	1209; 1878; 1893; 4354; 4799
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	2652; 2756; 2767
XbaI	T!CTAGA	1	2485
XceI	RCATG!Y	6	651; 1392; 3408; 3480; 4243; 5760
XcmI	CCANNNNN!NNNNTGG	2	1872; 2046
XhoI	C!TCGAG	1	1337
XhoII	R!GATCY	13	585; 1159; 1333; 1916; 2473; 2482; 4009; 4255; 4647; 5006; 5018; 5104; 5115
XmaI	C!CCGGG	1	1424
XmaJI	C!CTAGG	2	3660; 4675
XmiI	GT!MKAC	2	1199; 1373
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	10	592; 1298; 2469; 2486; 2687; 3105; 3661; 4676; 5010; 5263
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	1	2353
Zsp2I	ATGCA!T	3	3410; 3482; 5813