

## pTagGFP-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	2624; 2829
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	4	2083; 2912; 3868; 5657
AatI	AGG!CCT	1	3662
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1376
AccII	CG!CG	22	60; 701; 938; 1256; 1366; 1411; 1694; 1934; 2729; 2765; 3141; 3161; 3185; 3216; 3907; 4208; 4646; 4730; 4793; 4862; 5135; 5716
AccIII	T!CCGGA	1	1327
Acc16I	TGC!GCA	1	3943
Acc36I	ACCTGCNNNN!	2	4109; 4559
Acc36I	!NNNNNNNNGCAGGT	1	3728
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	9	465; 1454; 1463; 1604; 2251; 2307; 2994; 3840; 3875
AccB7I	CCANNNN!NTGG	2	1032; 1308
AccBSI	CCG!CTC	2	3265; 4454
AccBSI	GAG!CGG	5	617; 1962; 2106; 3101; 4508
AceIII	CAGCTCNNNNNNN!	2	2055; 2797
AceIII	!NNNNNNNNNNGAGCTG	7	552; 616; 649; 970; 1303; 1612; 2056
Acil	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 828; 936; 975; 1113; 1226; 1242; 1254; 1364; 1692; 2112; 2214; 2460; 3156; 3159; 3173; 3263; 3511; 3523; 3532; 3544; 3554; 3565; 3611; 3750; 3813; 4315; 4360; 4426; 4452; 4577; 4580; 4728; 4860; 5167; 5311; 5807
Acil	G!CGG	34	370; 403; 528; 617; 701; 938; 1130; 1133; 1411; 1934; 1962; 2106; 2249; 2372; 3101; 3128; 3216; 3326; 3907; 3971; 4072; 4075; 4355; 4410; 4508; 4646; 4793; 4933; 5176; 5421; 5542; 5561; 5688; 5716
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	11	2374; 2422; 2484; 2493; 3709; 4020; 4266; 4658; 5017; 5115; 5201
AcIWI	!NNNNNGATCC	8	580; 1188; 1914; 2471; 4085; 4629; 5016; 5113
AcoI	Y!GGCCR	11	681; 1145; 1782; 1890; 1955; 2027; 2079; 3747; 3921; 4312; 4339
AcsI	R!AATTY	3	2655; 2759; 2770
AcuI	CTGAAGNNNNNNNNNNNNNNN!	4	1006; 1567; 3987; 4419
AcuI	!NNNNNNNNNNNNNCTTCAG	2	1266; 5217
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 719; 1455; 3841; 4543; 4622
AdeI	CACNNN!GTG	5	1059; 1266; 1653; 1833; 2957
AfaI	GT!AC	18	219; 244; 299; 332; 383; 540; 928; 1039; 1063; 1321; 1552; 1744; 1774; 1788; 2227; 2263; 2356; 4147
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	27	49; 617; 779; 912; 942; 1032; 1248; 1308; 1451; 1817; 1878; 2151; 2853; 3179; 3571; 3822; 4366; 4647; 4679; 4811; 4846; 4896; 4928; 5281; 5560; 5726; 5744
AfII	C!TTAAG	0	
AfIII	A!CRYGT	3	1058; 2727; 5759
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	11	864; 1002; 1047; 1107; 1728; 2184; 3252; 3296; 3306; 3719; 5295
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjiI	GAC!GTG	2	675; 2205
Ajnl	!CCWGG	31	88; 281; 778; 788; 890; 911; 965; 1019; 1091; 1172; 1271; 1459; 1466; 1754; 1883; 2006; 2051; 2081; 2144; 2265; 2303; 2381; 3375; 3430; 3447; 4226; 4805; 4908; 5598; 5611; 5732
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	2	790; 967
AlfI	GCANNNNNTGCGNNNNNNNNNN!	2	3415; 3487
AlfI	!NNNNNNNNNGCANNNNNTGC	2	3381; 3453
AloI	GAACNNNNNTCCNNNNNNNNNN!	1	2923
AloI	!NNNNNNNGGANNNNNNGTTC	1	730
AloI	GGANNNNNGTTCNNNNNNNNNN!	1	762
AloI	!NNNNNNNGAACNNNNNTCC	1	2891
AluI	AG!CT	28	566; 630; 663; 735; 768; 984; 1032; 1043; 1143; 1317; 1345; 1626; 1943; 1992; 2045; 2063; 2070; 2620; 2787; 3044; 3339; 3627; 3947; 4405; 5202; 5459; 5505; 5595
AluBI	AG!CT	28	566; 630; 663; 735; 768; 984; 1032; 1043; 1143; 1317; 1345; 1626; 1943; 1992; 2045; 2063; 2070; 2620; 2787; 3044; 3339; 3627; 3947; 4405; 5202; 5459; 5505; 5595
AlwI	GGATCNNNN!	11	2374; 2422; 2484; 2493; 3709; 4020; 4266; 4658; 5017; 5115; 5201
AlwI	!NNNNNGATCC	8	580; 1188; 1914; 2471; 4085; 4629; 5016; 5113
Alw21I	GWGCW!C	9	680; 842; 1219; 1271; 1565; 1649; 3954; 4144; 5449
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1714; 3265; 3683; 4702; 4830
Alw44I	G!TGCAC	2	676; 5445
AlwNI	CAGNNN!CTG	3	1289; 4942; 5350
Ama87I	C!YCGRG	5	835; 877; 1340; 1427; 1639
Aor13HI	T!CCGGA	1	1327
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	5	819; 1654; 3409; 3481; 4943
ApaLI	G!TGCAC	2	676; 5445
ApeKI	G!CWGC	21	768; 1140; 1292; 1626; 1656; 2035; 2070; 2114; 2617; 3136; 3801; 3902; 3944; 3985; 4078; 4465; 4918; 5144; 5350; 5353; 5418
ApoI	R!AATTY	3	2655; 2759; 2770
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4356
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4150; 4803; 5641
AquI	GCCGNACNNNNNNNNNNNNNNNNNN!	2	1810; 4240
AquI	!NNNNNNNNNNNNNNNNNGTNCGGC	1	2420
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	3	650; 1667; 3669
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	2	2027; 2320
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	2	1419; 4411
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNCCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	31	586; 657; 741; 1194; 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
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	2	1819; 3959
Asp700I	GAANN!NNTTC	1	856
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3663; 4678
AspEI	GACNNN!NNGTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AspLEI	GCG!C	29	597; 701; 871; 899; 1288; 1368; 1457; 1934; 2351; 3107; 3115; 3141; 3163; 3172; 3185; 3216; 3835; 3843; 3907; 3944; 4210; 4470; 4646; 4732; 5135; 5244; 5418; 5518; 5585
AspS9I	G!GNCC	20	83; 276; 782; 1023; 1183; 1239; 1251; 1325; 1430; 1518; 1668; 1881; 1896; 2443; 2948; 4357; 4802; 4848; 4906; 4939
AssI	AGT!ACT	1	2356
AsuII	TT!CGAA	1	4523
AsuC2I	CC!SGG	7	1428; 1429; 1894; 3845; 4005; 4618; 5382
AsuHPI	GGTGANNNNNNNN!	8	376; 804; 957; 981; 1110; 1825; 4912; 5028
AsuHPI	!NNNNNNNTCACC	8	1533; 1566; 1815; 1917; 1938; 2082; 2958; 4019
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	5	835; 877; 1340; 1427; 1639
AvaII	G!GWCC	6	1239; 1325; 1881; 1896; 4357; 4802
AviII	TGC!GCA	1	3943
AvrII	C!CTAGG	2	3663; 4678
AxyI	CC!TNAGG	3	2120; 3321; 4953
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	8	650; 680; 779; 1172; 1838; 3787; 3880; 5449
BalI	TGG!CCA	2	2029; 3923
BamHI	G!GATCC	1	2476
BanI	G!GYRCC	9	465; 1454; 1463; 1604; 2251; 2307; 2994; 3840; 3875
BanII	GRGCY!C	3	3032; 4206; 4916
BanIII	AT!CGAT	1	3681
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	2013
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	1981
BasI	CCANNNN!NTGG	2	1032; 1308
BauI	C!ACGAG	2	4559; 5586
BauI	C!TCGTG	1	4433
BbeI	GGCGC!C	2	1458; 3844
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	1	1423
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	1	1428
BbuI	GCATG!C	3	3411; 3483; 4246
BbvI	GCAGCNNNNNNNN!	7	1152; 2629; 3914; 3956; 4477; 4930; 5430
BbvI	!NNNNNNNNNNNGCTGC	13	755; 1279; 1613; 1643; 2022; 2057; 2101; 3123; 3788; 3972; 4065; 5131; 5337
Bbv12I	GWGCW!C	9	680; 842; 1219; 1271; 1565; 1649; 3954; 4144; 5449
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	14	910; 1207; 1237; 1453; 1564; 1846; 1876; 2197; 2386; 2458; 2971; 3535; 4061; 4563
BccI	!NNNNNGATGG	6	1470; 1797; 2019; 2939; 3719; 4147
BceAI	ACGGCNNNNNNNNNN!	15	684; 744; 825; 936; 1026; 1104; 1197; 1320; 1398; 1581; 1970; 2048; 2094; 4267; 4754
BceAI	!NNNNNNNNNNNNNGCCGT	5	1417; 1769; 2982; 3800; 5259
Bcefl	ACGGCNNNNNNNNNN!	15	684; 744; 825; 936; 1026; 1104; 1197; 1320; 1398; 1581; 1970; 2048; 2094; 4267; 4754
Bcefl	!NNNNNNNNNNNNNGCCGT	5	1418; 1770; 2983; 3801; 5260
BcgI	CGANNNNNTGCNNNNNNNNNN!	1	1868
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNTGC	1	1834
BciVI	GTATCCNNNNNN!	3	3270; 4060; 5561
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2498
BcnI	CC!SGG	7	1428; 1429; 1894; 3845; 4005; 4618; 5382
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNN!	5	1216; 1726; 1939; 2521; 5694
BdaI	!NNNNNNNNNTGANNNNNTCA	5	1182; 1692; 1905; 2487; 5660

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BfaI	C!TAG	9	592; 2472; 2489; 2690; 3108; 3664; 4679; 5013; 5266
BfiI	ACTGGGNNNNN!	2	1590; 3790
BfiI	!NNNNCCCAGT	2	289; 3542
BfmI	C!TRYAG	4	1938; 3176; 5303; 5494
BfoI	RGCGC!Y	8	598; 872; 1289; 1458; 3108; 3116; 3844; 5519
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNN!	3	3270; 4060; 5561
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4109; 4559
BfuAI	!NNNNNNNNGCAGGT	1	3728
BfuCI	!GATC	31	585; 656; 740; 1193; 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
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1429; 3616
BglII	A!GATCT	1	1336
BisI	GC!NGC	44	702; 769; 939; 1131; 1134; 1141; 1293; 1364; 1627; 1657; 1935; 2036; 2071; 2115; 2250; 2373; 2618; 3137; 3159; 3173; 3611; 3750; 3802; 3813; 3903; 3908; 3945; 3986; 4073; 4076; 4079; 4315; 4411; 4452; 4466; 4580; 4919; 4934; 5145; 5351; 5354; 5419; 5562; 5717
BlnI	C!CTAGG	2	3663; 4678
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	44	703; 770; 940; 1132; 1135; 1142; 1294; 1365; 1628; 1658; 1936; 2037; 2072; 2116; 2251; 2374; 2619; 3138; 3160; 3174; 3612; 3751; 3803; 3814; 3904; 3909; 3946; 3987; 4074; 4077; 4080; 4316; 4412; 4453; 4467; 4581; 4920; 4935; 5146; 5352; 5355; 5420; 5563; 5718
BmcAI	AGT!ACT	1	2356
Bme18I	G!GWCC	6	1239; 1325; 1881; 1896; 4357; 4802
Bme1390I	CC!NGG	38	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 1428; 1429; 1461; 1468; 1756; 1885; 1894; 2008; 2053; 2083; 2146; 2267; 2305; 2383; 3377; 3432; 3449; 3845; 4005; 4228; 4618; 4807; 4910; 5382; 5600; 5613; 5734
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	5	835; 877; 1340; 1427; 1639
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	2	675; 2205
BmgT120I	GG!NCC	20	84; 277; 783; 1024; 1184; 1240; 1252; 1326; 1431; 1519; 1669; 1882; 1897; 2444; 2949; 4358; 4803; 4849; 4907; 4940
BmiI	GGN!NCC	28	467; 1185; 1386; 1456; 1465; 1606; 1637; 1670; 1897; 2110; 2253; 2309; 2376; 2445; 2478; 2996; 3017; 3029; 3220; 3381; 3453; 3842; 3877; 4725; 4804; 4849; 5692; 5731
BmrI	ACTGGGNNNNN!	2	1590; 3790
BmrI	!NNNNCCCAGT	2	289; 3542
BmrFI	CC!NGG	38	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 1428; 1429; 1461; 1468; 1756; 1885; 1894; 2008; 2053; 2083; 2146; 2267; 2305; 2383; 3377; 3432; 3449; 3845; 4005; 4228; 4618; 4807; 4910; 5382; 5600; 5613; 5734
BmsI	GCATCNNNNN!	13	650; 821; 986; 1544; 1577; 1805; 2174; 2657; 3420; 3492; 4140; 4204; 4479
BmsI	!NNNNNNNNGATGC	7	357; 1410; 2273; 3799; 4054; 4270; 5662
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1590; 3790
BmuI	!NNNNCCCAGT	2	289; 3542
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	1	1428
BpI	GAGNNNNNCTCNNNNNNNNNNNNN!	3	1555; 3630; 4529
BpI	!NNNNNNNNGAGNNNNNCTC	3	1523; 3598; 4497
BpmI	CTGGAGNNNNNNNNNNNNNNNNN!	6	757; 1054; 1114; 1294; 2074; 4681
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	4624
Bpu10I	CC!TNAGC	2	1213; 2345
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	4523
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BpuAI	!NNNNNNGTCTTC	1	1428
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	5135; 5674
BpuEI	!NNNNNNNNNNNNNNCTCAAG	2	4217; 5376
BpuMI	CC!SGG	7	1428; 1429; 1894; 3845; 4005; 4618; 5382
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1714; 4830
Bsa29I	AT!CGAT	1	3681
BsaAI	YAC!GTR	3	340; 2957; 4145
BsaBI	GATNN!NNATC	5	1198; 2329; 2413; 2503; 3700
BsaHI	GR!CGYC	9	122; 175; 258; 444; 719; 1455; 3841; 4543; 4622
BsaJI	C!CNNGG	37	360; 778; 788; 878; 936; 965; 1020; 1172; 1173; 1302; 1426; 1459; 1467; 1640; 1664; 1682; 1952; 2006; 2030; 2051; 2145; 2265; 2303; 3375; 3447; 3570; 3605; 3614; 3663; 4004; 4273; 4678; 4805; 4806; 4908; 4909; 5599
BsaMI	GAATGCN!	1	2592
BsaMI	G!CATTC	1	2685
BsaWI	W!CCGGW	8	600; 1327; 1810; 2482; 3872; 4716; 5406; 5553
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	1399; 2921
BsaXI	!NNNNNNNGGAGNNNNNGT	2	730; 1978
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	2	760; 2008
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	1369; 2891
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	2	1754; 2258
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	2842; 4749
Bsc4I	CCNNNNN!NNGG	27	49; 617; 779; 912; 942; 1032; 1248; 1308; 1451; 1817; 1878; 2151; 2853; 3179; 3571; 3822; 4366; 4647; 4679; 4811; 4846; 4896; 4928; 5281; 5560; 5726; 5744
BscAI	GCATCNNNN!	13	649; 820; 985; 1543; 1576; 1804; 2173; 2656; 3419; 3491; 4139; 4203; 4478
BscAI	!NNNNNNGATGC	7	360; 1413; 2276; 3802; 4057; 4273; 5665
Bse1I	ACTGGN!	5	1585; 1797; 3785; 3986; 5232
Bse1I	C!CAGT	6	295; 816; 2870; 3548; 5344; 5357
Bse8I	GATNN!NNATC	5	1198; 2329; 2413; 2503; 3700
Bse21I	CC!TNAGG	3	2120; 3321; 4953
Bse118I	R!CCGGY	8	600; 637; 760; 1402; 3058; 4160; 4341; 4624
BseAI	T!CCGGA	1	1327
BseBI	CC!WGG	31	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 1461; 1468; 1756; 1885; 2008; 2053; 2083; 2146; 2267; 2305; 2383; 3377; 3432; 3449; 4228; 4807; 4910; 5600; 5613; 5734
BseCI	AT!CGAT	1	3681
BseDI	C!CNNGG	37	360; 778; 788; 878; 936; 965; 1020; 1172; 1173; 1302; 1426; 1459; 1467; 1640; 1664; 1682; 1952; 2006; 2030; 2051; 2145; 2265; 2303; 3375; 3447; 3570; 3605; 3614; 3663; 4004; 4273; 4678; 4805; 4806; 4908; 4909; 5599
Bse3DI	GCAATGNN!	2	2106; 4074
Bse3DI	!CATTGC	2	2270; 2333
BseGI	GGATGNN!	6	1356; 2288; 3701; 4158; 4183; 4637
BseGI	!CATCC	10	812; 887; 902; 1016; 1535; 1868; 2165; 2210; 2378; 3527
BseJI	GATNN!NNATC	5	1198; 2329; 2413; 2503; 3700
BseLI	CCNNNNN!NNGG	27	49; 617; 779; 912; 942; 1032; 1248; 1308; 1451; 1817; 1878; 2151; 2853; 3179; 3571; 3822; 4366; 4647; 4679; 4811; 4846; 4896; 4928; 5281; 5560; 5726; 5744
BseMI	GCAATGNN!	2	2106; 4074
BseMI	!CATTGC	2	2270; 2333
BseMII	CTCAGNNNNNNNNNN!	3	1234; 1347; 4967
BseMII	!NNNNNNNNCTGAG	8	1204; 2111; 2336; 3312; 3614; 4495; 5067; 5476
BseNI	ACTGGN!	5	1585; 1797; 3785; 3986; 5232
BseNI	C!CAGT	6	295; 816; 2870; 3548; 5344; 5357
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	3	640; 1657; 3659
BseRI	!NNNNNNNNCTCCTC	2	2037; 2330
BseSI	GKGC!C	8	650; 680; 779; 1172; 1838; 3787; 3880; 5449
BseXI	GCAGCNNNNNNNN!	7	1152; 2629; 3914; 3956; 4477; 4930; 5430
BseXI	!NNNNNNNNNNNGCTGC	13	755; 1279; 1613; 1643; 2022; 2057; 2101; 3123; 3788; 3972; 4065; 5131; 5337
BseX3I	C!GGCCG	2	1955; 3747

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BseYI	C!CCAGC	5	1734; 2311; 3384; 3456; 5455
BseYI	G!CTGGG	1	4345
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1159
BsgI	!NNNNNNNNNNNNNNNNCTGCAC	1	738
Bsh1236I	CG!CG	22	60; 701; 938; 1256; 1366; 1411; 1694; 1934; 2729; 2765; 3141; 3161; 3185; 3216; 3907; 4208; 4646; 4730; 4793; 4862; 5135; 5716
Bsh1285I	CGRY!CG	4	605; 1958; 3750; 5425
BshFI	GG!CC	39	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1252; 1402; 1432; 1519; 1669; 1687; 1784; 1892; 1957; 2029; 2081; 2386; 2444; 2807; 2949; 3604; 3610; 3619; 3662; 3749; 3923; 4314; 4341; 4850; 4907; 4940; 5285; 5719; 5737; 5748
BshNI	G!GYRCC	9	465; 1454; 1463; 1604; 2251; 2307; 2994; 3840; 3875
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	3681
BsiEI	CGRY!CG	4	605; 1958; 3750; 5425
BsiHKAI	GWGCW!C	9	680; 842; 1219; 1271; 1565; 1649; 3954; 4144; 5449
BsiHKCI	C!YCGRG	5	835; 877; 1340; 1427; 1639
BsiSI	C!CGG	27	601; 638; 761; 1328; 1388; 1403; 1428; 1811; 1893; 2441; 2483; 3059; 3746; 3823; 3845; 3873; 4004; 4094; 4161; 4342; 4617; 4625; 4717; 5191; 5381; 5407; 5554
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	27	49; 617; 779; 912; 942; 1032; 1248; 1308; 1451; 1817; 1878; 2151; 2853; 3179; 3571; 3822; 4366; 4647; 4679; 4811; 4846; 4896; 4928; 5281; 5560; 5726; 5744
BsIFI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1597; 1909; 3992; 4524; 4633
BsIFI	!NNNNNNNNNNNNNNNGTCCC	4	3357; 3429; 3493; 4788
BsmI	GAATGCN!	1	2592
BsmI	G!CATTC	1	2685
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	1714; 3265; 3683; 4702; 4830
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1597; 1909; 3992; 4524; 4633
BsmFI	!NNNNNNNNNNNNNNNGTCCC	4	3357; 3429; 3493; 4788
BsnI	GG!CC	39	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1252; 1402; 1432; 1519; 1669; 1687; 1784; 1892; 1957; 2029; 2081; 2386; 2444; 2807; 2949; 3604; 3610; 3619; 3662; 3749; 3923; 4314; 4341; 4850; 4907; 4940; 5285; 5719; 5737; 5748
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	1714; 4830
BsoBI	C!YCGRG	5	835; 877; 1340; 1427; 1639
Bsp13I	T!CCGGA	1	1327
Bsp19I	C!CATGG	3	360; 3570; 4273
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4644
Bsp24I	!NNNNNNCCANNNNNGTC	3	1860; 5065; 5243
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	3	1892; 5097; 5275
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4612
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4523
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	31	585; 656; 740; 1193; 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
Bsp1286I	GDGCH!C	18	650; 680; 779; 842; 1172; 1219; 1271; 1565; 1649; 1838; 3032; 3787; 3880; 3954; 4144; 4206; 4916; 5449
Bsp1407I	T!GTACA	2	1061; 1319
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 828; 936; 975; 1113; 1226; 1242; 1254; 1364; 1692; 2112; 2214; 2460; 3156; 3159; 3173; 3263; 3511; 3523; 3532; 3544; 3554; 3565; 3611; 3750; 3813; 4315; 4360; 4426; 4452; 4577; 4580; 4728; 4860; 5167; 5311; 5807
BspACI	G!CGG	34	370; 403; 528; 617; 701; 938; 1130; 1133; 1411; 1934; 1962; 2106; 2249; 2372; 3101; 3128; 3216; 3326; 3907; 3971; 4072; 4075; 4355; 4410; 4508; 4646; 4793; 4933; 5176; 5421; 5542; 5561; 5688; 5716

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspCNI	CTCAGNNNNNNNNN!	3	1233; 1346; 4966
BspCNI	!NNNNNNNCTGAG	8	1205; 2112; 2337; 3313; 3615; 4496; 5068; 5477
BspDI	AT!CGAT	1	3681
BspD6I	GACTCNNNN!	6	418; 1339; 1815; 2914; 4520; 5397
BspD6I	!NNNNNNGAGTC	5	1269; 2148; 2430; 2877; 3309
BspEI	T!CCGGA	1	1327
BspFNI	CG!CG	22	60; 701; 938; 1256; 1366; 1411; 1694; 1934; 2729; 2765; 3141; 3161; 3185; 3216; 3907; 4208; 4646; 4730; 4793; 4862; 5135; 5716
BspHI	T!CATGA	4	1913; 2192; 3267; 5039
BspLI	GGN!NCC	28	467; 1185; 1386; 1456; 1465; 1606; 1637; 1670; 1897; 2110; 2253; 2309; 2376; 2445; 2478; 2996; 3017; 3029; 3220; 3381; 3453; 3842; 3877; 4725; 4804; 4849; 5692; 5731
BspMI	ACCTGCNNNN!	2	4109; 4559
BspMI	!NNNNNNNNGCAGGT	1	3728
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	11	2374; 2422; 2484; 2493; 3709; 4020; 4266; 4658; 5017; 5115; 5201
BspPI	!NNNNNGATCC	8	580; 1188; 1914; 2471; 4085; 4629; 5016; 5113
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	2053; 4185; 4395
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4523
BspT107I	G!GYRCC	9	465; 1454; 1463; 1604; 2251; 2307; 2994; 3840; 3875
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1714; 4830
BsrI	ACTGGN!	5	1585; 1797; 3785; 3986; 5232
BsrI	C!CAGT	6	295; 816; 2870; 3548; 5344; 5357
BsrBI	CCG!CTC	2	3265; 4454
BsrBI	GAG!CGG	5	617; 1962; 2106; 3101; 4508
BsrDI	GCAATGNN!	2	2106; 4074
BsrDI	!CATTGC	2	2270; 2333
BsrFI	R!CCGGY	8	600; 637; 760; 1402; 3058; 4160; 4341; 4624
BsrGI	T!GTACA	2	1061; 1319
BsrSI	ACTGGN!	5	1585; 1797; 3785; 3986; 5232
BsrSI	C!CAGT	6	295; 816; 2870; 3548; 5344; 5357
BssAI	R!CCGGY	8	600; 637; 760; 1402; 3058; 4160; 4341; 4624
BssECI	C!CNNGG	37	360; 778; 788; 878; 936; 965; 1020; 1172; 1173; 1302; 1426; 1459; 1467; 1640; 1664; 1682; 1952; 2006; 2030; 2051; 2145; 2265; 2303; 3375; 3447; 3570; 3605; 3614; 3663; 4004; 4273; 4678; 4805; 4806; 4908; 4909; 5599
BssHII	G!CGCGC	0	
BssKI	!CCNGG	38	88; 281; 778; 788; 890; 911; 965; 1019; 1091; 1172; 1271; 1426; 1427; 1459; 1466; 1754; 1883; 1892; 2006; 2051; 2081; 2144; 2265; 2303; 2381; 3375; 3430; 3447; 3843; 4003; 4226; 4616; 4805; 4908; 5380; 5598; 5611; 5732
BssMI	!GATC	31	585; 656; 740; 1193; 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
BssNI	GR!CGYC	9	122; 175; 258; 444; 719; 1455; 3841; 4543; 4622
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4559; 5586
BssSI	C!TCGTG	1	4433
BssTII	C!CWWGG	6	360; 1682; 3570; 3663; 4273; 4678
Bst6I	CTCTCN!	2	913; 2134
Bst6I	!NNNNGAAGAG	4	2053; 3308; 4185; 4395
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 719; 1455; 3841; 4543; 4622
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	5	818; 1653; 3408; 3480; 4942
BstAUI	T!GTACA	2	1061; 1319
BstBI	TT!CGAA	1	4523
Bst2BI	C!ACGAG	2	4559; 5586
Bst2BI	C!TCGTG	1	4433

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstBAI	YAC!GTR	3	340; 2957; 4145
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 1833; 2238; 2932; 4221; 4337; 4445; 4768; 5259; 5729; 5800
BstC8I	GCN!NGC	40	86; 279; 593; 639; 697; 733; 766; 828; 1138; 1145; 1254; 1290; 1404; 1413; 1890; 2422; 3060; 3103; 3117; 3390; 3409; 3462; 3481; 3735; 3921; 4140; 4206; 4212; 4244; 4285; 4289; 4343; 4626; 4813; 4860; 4916; 4938; 5149; 5709; 5746
BstDEI	C!TNAG	11	1213; 1220; 1333; 2120; 2345; 3321; 3623; 4504; 4953; 5076; 5485
BstDSI	C!CRYGG	7	360; 936; 1302; 1952; 2030; 3570; 4273
BstEII	G!GTNACC	2	792; 1821
BstENI	CCTNN!NNNAGG	1	910
BstF5I	GGATGNN!	6	1356; 2288; 3701; 4158; 4183; 4637
BstF5I	!CATCC	10	812; 887; 902; 1016; 1535; 1868; 2165; 2210; 2378; 3527
BstFNI	CG!CG	22	60; 701; 938; 1256; 1366; 1411; 1694; 1934; 2729; 2765; 3141; 3161; 3185; 3216; 3907; 4208; 4646; 4730; 4793; 4862; 5135; 5716
BstH2I	RGCGC!Y	8	598; 872; 1289; 1458; 3108; 3116; 3844; 5519
BstHHI	GCG!C	29	597; 701; 871; 899; 1288; 1368; 1457; 1934; 2351; 3107; 3115; 3141; 3163; 3172; 3185; 3216; 3835; 3843; 3907; 3944; 4210; 4470; 4646; 4732; 5135; 5244; 5418; 5518; 5585
BstKTI	GAT!C	31	588; 659; 743; 1196; 1339; 1712; 1922; 2297; 2327; 2333; 2369; 2417; 2479; 2488; 2501; 3681; 3685; 3704; 4015; 4093; 4174; 4183; 4261; 4637; 4653; 5012; 5024; 5102; 5110; 5121; 5196
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	5	1714; 3265; 3683; 4702; 4830
BstMBI	!GATC	31	585; 656; 740; 1193; 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
BstMCI	CGRY!CG	4	605; 1958; 3750; 5425
BstMWI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 660; 701; 761; 774; 818; 1049; 1241; 1292; 1403; 1429; 1461; 1532; 1653; 1756; 1940; 2035; 3068; 3098; 3125; 3167; 3408; 3480; 3531; 3610; 3832; 3916; 3939; 4078; 4201; 4284; 4551; 4738; 4942; 5141; 5713
BstNI	CC!WGG	31	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 1461; 1468; 1756; 1885; 2008; 2053; 2083; 2146; 2267; 2305; 2383; 3377; 3432; 3449; 4228; 4807; 4910; 5600; 5613; 5734
BstNSI	RCATG!Y	5	1395; 3411; 3483; 4246; 5763
BstOI	CC!WGG	31	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 1461; 1468; 1756; 1885; 2008; 2053; 2083; 2146; 2267; 2305; 2383; 3377; 3432; 3449; 4228; 4807; 4910; 5600; 5613; 5734
BstPI	G!GTNACC	2	792; 1821
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	38	88; 281; 778; 788; 890; 911; 965; 1019; 1091; 1172; 1271; 1426; 1427; 1459; 1466; 1754; 1883; 1892; 2006; 2051; 2081; 2144; 2265; 2303; 2381; 3375; 3430; 3447; 3843; 4003; 4226; 4616; 4805; 4908; 5380; 5598; 5611; 5732
BstSFI	C!TRYAG	4	1938; 3176; 5303; 5494
BstSLI	GKGC M!C	8	650; 680; 779; 1172; 1838; 3787; 3880; 5449
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	22	60; 701; 938; 1256; 1366; 1411; 1694; 1934; 2729; 2765; 3141; 3161; 3185; 3216; 3907; 4208; 4646; 4730; 4793; 4862; 5135; 5716
Bst2UI	CC!WGG	31	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 1461; 1468; 1756; 1885; 2008; 2053; 2083; 2146; 2267; 2305; 2383; 3377; 3432; 3449; 4228; 4807; 4910; 5600; 5613; 5734
BstV1I	GCAGC N N N N N N N N!	7	1152; 2629; 3914; 3956; 4477; 4930; 5430
BstV1I	! N N N N N N N N N N N N G C T G C	13	755; 1279; 1613; 1643; 2022; 2057; 2101; 3123; 3788; 3972; 4065; 5131; 5337
BstV2I	GAAGACNN!	0	
BstV2I	! N N N N N N G T C T T C	1	1428
BstXI	CCANN N N N! N T G G	0	
BstX2I	R!GATCY	12	585; 1336; 1919; 2476; 2485; 4012; 4258; 4650; 5009; 5021; 5107; 5118
BstYI	R!GATCY	12	585; 1336; 1919; 2476; 2485; 4012; 4258; 4650; 5009; 5021; 5107; 5118
BstZI	C!GGCCG	2	1955; 3747



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3270; 4060; 5561
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3681
Bsu36I	CC!TNAGG	3	2120; 3321; 4953
BsuRI	GG!CC	39	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1252; 1402; 1432; 1519; 1669; 1687; 1784; 1892; 1957; 2029; 2081; 2386; 2444; 2807; 2949; 3604; 3610; 3619; 3662; 3749; 3923; 4314; 4341; 4850; 4907; 4940; 5285; 5719; 5737; 5748
BsuTUI	AT!CGAT	1	3681
BtgI	C!CRYGG	7	360; 936; 1302; 1952; 2030; 3570; 4273
BtgZI	GCGATGNNNNNNNNNN!	2	2958; 4293
BtgZI	!NNNNNNNNNNNNNNNNCATCGC	3	334; 4112; 4456
BthCI	GCNG!C	44	704; 771; 941; 1133; 1136; 1143; 1295; 1366; 1629; 1659; 1937; 2038; 2073; 2117; 2252; 2375; 2620; 3139; 3161; 3175; 3613; 3752; 3804; 3815; 3905; 3910; 3947; 3988; 4075; 4078; 4081; 4317; 4413; 4454; 4468; 4582; 4921; 4936; 5147; 5353; 5356; 5421; 5564; 5719
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	2	675; 2205
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	2297; 2680
BtsCI	GGATGNN!	6	1356; 2288; 3701; 4158; 4183; 4637
BtsCI	!CATCC	10	812; 887; 902; 1016; 1535; 1868; 2165; 2210; 2378; 3527
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4109; 4559
BveI	!NNNNNNNNNGCAGGT	1	3728
Cac8I	GCN!NGC	40	86; 279; 593; 639; 697; 733; 766; 828; 1138; 1145; 1254; 1290; 1404; 1413; 1890; 2422; 3060; 3103; 3117; 3390; 3409; 3462; 3481; 3735; 3921; 4140; 4206; 4212; 4244; 4285; 4289; 4343; 4626; 4813; 4860; 4916; 4938; 5149; 5709; 5746
CaiI	CAGNNN!CTG	3	1289; 4942; 5350
CciI	T!CATGA	4	1913; 2192; 3267; 5039
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	13	352; 645; 981; 1125; 1449; 1560; 1572; 1800; 2454; 4130; 4135; 4333; 4474
CdiI	C!GATG	3	1419; 2944; 4279
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5713
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3502; 3544
CelII	GC!TNAGC	0	
CfoI	GCG!C	29	597; 701; 871; 899; 1288; 1368; 1457; 1934; 2351; 3107; 3115; 3141; 3163; 3172; 3185; 3216; 3835; 3843; 3907; 3944; 4210; 4470; 4646; 4732; 5135; 5244; 5418; 5518; 5585
CfrI	Y!GGCCR	11	681; 1145; 1782; 1890; 1955; 2027; 2079; 3747; 3921; 4312; 4339
Cfr9I	C!CCGGG	1	1427
Cfr10I	R!CCGGY	8	600; 637; 760; 1402; 3058; 4160; 4341; 4624
Cfr13I	G!GNCC	20	83; 276; 782; 1023; 1183; 1239; 1251; 1325; 1430; 1518; 1668; 1881; 1896; 2443; 2948; 4357; 4802; 4848; 4906; 4939
Cfr42I	CCGC!GG	1	939
ChaI	GATC!	31	589; 660; 744; 1197; 1340; 1713; 1923; 2298; 2328; 2334; 2370; 2418; 2480; 2489; 2502; 3682; 3686; 3705; 4016; 4094; 4175; 4184; 4262; 4638; 4654; 5013; 5025; 5103; 5111; 5122; 5197
CjeI	CCANNNNNGTNNNNNNNNNNNNNNNN!	8	1078; 1732; 1893; 2428; 3658; 5098; 5198; 5276
CjeI	!NNNNNNNNNACNNNNNNNTGG	8	64; 257; 2347; 3325; 3420; 4612; 5162; 5717
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	8	98; 291; 2381; 3359; 3454; 4646; 5196; 5751
CjeI	!NNNNNNNNCCANNNNNNNGT	8	1044; 1698; 1859; 2394; 3624; 5064; 5164; 5242
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	3	1893; 5098; 5276
CjePI	!NNNNNNNNGANNNNNNNNTGG	4	257; 1585; 4612; 5211
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	4	290; 1618; 4645; 5244
CjePI	!NNNNNNNNCCANNNNNNNTC	3	1860; 5065; 5243
Clai	AT!CGAT	1	3681
CpoI	CG!GWCCG	1	4357
CseI	GACGCNNNN!	4	526; 727; 4551; 4630
CseI	!NNNNNNNNNNNGCGTC	4	1864; 3174; 5069; 5647
CsiI	A!CCWGGT	1	3430

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspI	CG!GWCCG	1	4357
Csp6I	G!TAC	18	218; 243; 298; 331; 382; 539; 927; 1038; 1062; 1320; 1551; 1743; 1773; 1787; 2226; 2262; 2355; 4146
Csp45I	TT!CGAA	1	4523
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	5	1028; 2009; 2315; 3121; 4730
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	31	301; 361; 612; 843; 873; 1068; 1263; 1308; 1392; 1485; 1590; 1713; 1740; 1864; 1914; 2151; 2193; 2259; 3268; 3408; 3480; 3571; 3712; 4057; 4243; 4274; 4300; 4656; 5040; 5760; 5811
CviJI	RG!CY	119	42; 84; 93; 277; 566; 630; 663; 683; 735; 768; 783; 884; 984; 1025; 1032; 1043; 1052; 1081; 1091; 1143; 1147; 1184; 1252; 1317; 1345; 1385; 1402; 1406; 1432; 1519; 1626; 1636; 1669; 1687; 1738; 1759; 1784; 1888; 1892; 1937; 1943; 1957; 1992; 2029; 2035; 2045; 2063; 2070; 2081; 2136; 2375; 2386; 2444; 2510; 2620; 2787; 2807; 2949; 3030; 3044; 3058; 3339; 3380; 3452; 3575; 3604; 3610; 3619; 3627; 3650; 3662; 3668; 3749; 3766; 3774; 3801; 3826; 3910; 3919; 3923; 3947; 3985; 4061; 4078; 4097; 4160; 4204; 4214; 4231; 4314; 4341; 4345; 4382; 4405; 4421; 4601; 4628; 4689; 4811; 4850; 4907; 4914; 4921; 4940; 4951; 5202; 5231; 5274; 5285; 5350; 5429; 5454; 5459; 5505; 5595; 5693; 5719; 5737; 5748
CviKI-1	RG!CY	119	42; 84; 93; 277; 566; 630; 663; 683; 735; 768; 783; 884; 984; 1025; 1032; 1043; 1052; 1081; 1091; 1143; 1147; 1184; 1252; 1317; 1345; 1385; 1402; 1406; 1432; 1519; 1626; 1636; 1669; 1687; 1738; 1759; 1784; 1888; 1892; 1937; 1943; 1957; 1992; 2029; 2035; 2045; 2063; 2070; 2081; 2136; 2375; 2386; 2444; 2510; 2620; 2787; 2807; 2949; 3030; 3044; 3058; 3339; 3380; 3452; 3575; 3604; 3610; 3619; 3627; 3650; 3662; 3668; 3749; 3766; 3774; 3801; 3826; 3910; 3919; 3923; 3947; 3985; 4061; 4078; 4097; 4160; 4204; 4214; 4231; 4314; 4341; 4345; 4382; 4405; 4421; 4601; 4628; 4689; 4811; 4850; 4907; 4914; 4921; 4940; 4951; 5202; 5231; 5274; 5285; 5350; 5429; 5454; 5459; 5505; 5595; 5693; 5719; 5737; 5748
CviQI	G!TAC	18	218; 243; 298; 331; 382; 539; 927; 1038; 1062; 1320; 1551; 1743; 1773; 1787; 2226; 2262; 2355; 4146
DdeI	C!TNAG	11	1213; 1220; 1333; 2120; 2345; 3321; 3623; 4504; 4953; 5076; 5485
DinI	GGC!GCC	2	1456; 3842
DpnI	GA!TC	31	587; 658; 742; 1195; 1338; 1711; 1921; 2296; 2326; 2332; 2368; 2416; 2478; 2487; 2500; 3680; 3684; 3703; 4014; 4092; 4173; 4182; 4260; 4636; 4652; 5011; 5023; 5101; 5109; 5120; 5195
DpnII	!GATC	31	585; 656; 740; 1193; 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
DraI	TTT!AAA	3	2543; 4985; 5004
DraII	RG!GNCCY	3	1668; 1896; 4939
DraIII	CACNNN!GTG	5	1059; 1266; 1653; 1833; 2957
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	6	266; 950; 1019; 1262; 2378; 5321
DraRI	!NNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	4	2083; 2912; 3868; 5657
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	2083; 2912; 3868; 5657
EaeI	Y!GGCCR	11	681; 1145; 1782; 1890; 1955; 2027; 2079; 3747; 3921; 4312; 4339
EagI	C!GGCCG	2	1955; 3747
Eam1104I	CTCTCN!	2	913; 2134
Eam1104I	!NNNNGAAGAG	4	2053; 3308; 4185; 4395
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	2	913; 2134
EarI	!NNNNGAAGAG	4	2053; 3308; 4185; 4395

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EciI	GGCGGANNNNNNNNNNN!	4	3341; 4370; 5557; 5703
EciI	!NNNNNNNNNTCCGCC	4	496; 3512; 3533; 3554
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	2	1955; 3747
Eco24I	GRGCY!C	3	3032; 4206; 4916
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1714; 4830
Eco32I	GAT!ATC	1	1359
Eco47I	G!GWCC	6	1239; 1325; 1881; 1896; 4357; 4802
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1955; 3747
Eco57I	CTGAAGNNNNNNNNNNNNNNN!	4	1006; 1567; 3987; 4419
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	1266; 5217
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	2120; 3321; 4953
Eco88I	C!YCGRG	5	835; 877; 1340; 1427; 1639
Eco91I	G!GTNACC	2	792; 1821
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 1682; 3570; 3663; 4273; 4678
Eco147I	AGG!CCT	1	3662
EcoHI	!CCSGG	7	1426; 1427; 1892; 3843; 4003; 4616; 5380
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNN!	10	757; 1006; 1054; 1114; 1294; 1567; 2074; 3987; 4419; 4681
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	1266; 4624; 5217
EcoNI	CCTNN!NNNAGG	1	910
Eco065I	G!GTNACC	2	792; 1821
Eco0109I	RG!GNCCY	3	1668; 1896; 4939
EcoRI	G!AATC	0	
EcoRII	!CCWGG	31	88; 281; 778; 788; 890; 911; 965; 1019; 1091; 1172; 1271; 1459; 1466; 1754; 1883; 2006; 2051; 2081; 2144; 2265; 2303; 2381; 3375; 3430; 3447; 4226; 4805; 4908; 5598; 5611; 5732
EcoRV	GAT!ATC	1	1359
EcoT14I	C!CWWGG	6	360; 1682; 3570; 3663; 4273; 4678
EcoT22I	ATGCA!T	3	3413; 3485; 5816
EcoT38I	GRGCY!C	3	3032; 4206; 4916
Eco53kl	GAG!CTC	0	
EgeI	GGC!GCC	2	1456; 3842
EheI	GGC!GCC	2	1456; 3842
ErhI	C!CWWGG	6	360; 1682; 3570; 3663; 4273; 4678
EsaBC3I	TC!GA	19	660; 954; 981; 1125; 1342; 1377; 1560; 2016; 2991; 3682; 3955; 4111; 4135; 4171; 4333; 4524; 4569; 4824; 5662
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	31	304; 364; 615; 846; 876; 1071; 1266; 1311; 1395; 1488; 1593; 1716; 1743; 1867; 1917; 2154; 2196; 2262; 3271; 3411; 3483; 3574; 3715; 4060; 4246; 4277; 4303; 4659; 5043; 5763; 5814
Fail	YA!TR	71	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 844; 874; 1069; 1264; 1309; 1348; 1393; 1486; 1505; 1591; 1714; 1741; 1853; 1865; 1915; 2152; 2194; 2260; 2432; 2503; 2513; 2579; 2624; 2829; 3257; 3269; 3400; 3409; 3472; 3481; 3505; 3572; 3596; 3713; 3777; 4058; 4083; 4244; 4275; 4301; 4373; 4589; 4657; 4735; 4787; 4948; 4965; 4967; 4969; 5041; 5319; 5508; 5624; 5697; 5761; 5812
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	1422; 4181
FalI	!NNNNNNNNAAGNNNNNCTT	2	1390; 4149
FaqI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1597; 1909; 3992; 4524; 4633
FaqI	!NNNNNNNNNNNNNGTCCC	4	3357; 3429; 3493; 4788
FatI	!CATG	31	300; 360; 611; 842; 872; 1067; 1262; 1307; 1391; 1484; 1589; 1712; 1739; 1863; 1913; 2150; 2192; 2258; 3267; 3407; 3479; 3570; 3711; 4056; 4242; 4273; 4299; 4655; 5039; 5759; 5810
FauI	CCCGCNNNN!	12	93; 119; 286; 835; 943; 1120; 1261; 3163; 3518; 3539; 4735; 4867
FauI	!NNNNNGCGGG	8	610; 1404; 1955; 3094; 3964; 4501; 4639; 4786
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2498
FblI	GT!MKAC	1	1376

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FmuI	GGNC!C	20	86; 279; 785; 1026; 1186; 1242; 1254; 1328; 1433; 1521; 1671; 1884; 1899; 2446; 2951; 4360; 4805; 4851; 4909; 4942
Fnu4HI	GC!NGC	44	702; 769; 939; 1131; 1134; 1141; 1293; 1364; 1627; 1657; 1935; 2036; 2071; 2115; 2250; 2373; 2618; 3137; 3159; 3173; 3611; 3750; 3802; 3813; 3903; 3908; 3945; 3986; 4073; 4076; 4079; 4315; 4411; 4452; 4466; 4580; 4919; 4934; 5145; 5351; 5354; 5419; 5562; 5717
FokI	GGATGNNNNNNNNNN!	6	1363; 2295; 3708; 4165; 4190; 4644
FokI	!NNNNNNNNNNNNNNCATCC	9	799; 874; 1003; 1522; 1855; 2152; 2197; 2365; 3514
FriOI	GRGCY!C	3	3032; 4206; 4916
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3943
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 2472; 2489; 2690; 3108; 3664; 4679; 5013; 5266
FspEI	CCNNNNNNNNNNNN!	205	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 651; 697; 735; 771; 785; 801; 829; 847; 885; 904; 919; 948; 978; 1033; 1066; 1085; 1105; 1125; 1161; 1176; 1198; 1212; 1239; 1255; 1273; 1293; 1309; 1341; 1377; 1401; 1416; 1437; 1453; 1471; 1515; 1533; 1552; 1567; 1590; 1621; 1652; 1677; 1693; 1719; 1737; 1752; 1768; 1782; 1798; 1824; 1839; 1869; 1885; 1906; 1924; 1941; 1962; 2019; 2043; 2061; 2087; 2106; 2125; 2146; 2172; 2193; 2227; 2244; 2268; 2289; 2316; 2354; 2373; 2391; 2409; 2454; 2470; 2493; 2524; 2563; 2577; 2718; 2813; 2837; 2860; 2883; 2901; 2923; 2944; 2963; 2982; 3011; 3032; 3046; 3072; 3160; 3186; 3235; 3276; 3294; 3333; 3349; 3387; 3444; 3459; 3516; 3536; 3550; 3567; 3581; 3618; 3633; 3676; 3759; 3826; 3857; 3877; 3892; 3937; 3951; 4017; 4031; 4050; 4066; 4107; 4127; 4174; 4224; 4240; 4260; 4285; 4305; 4328; 4355; 4373; 4399; 4439; 4465; 4489; 4545; 4559; 4587; 4630; 4651; 4686; 4730; 4818; 4842; 4864; 4884; 4900; 4921; 4935; 4954; 5038; 5058; 5086; 5101; 5135; 5177; 5204; 5219; 5264; 5288; 5302; 5324; 5350; 5370; 5394; 5420; 5468; 5487; 5506; 5532; 5567; 5612; 5642; 5656; 5707; 5721; 5746; 5762; 5783; 5812
FspEI	!NNNNNNNNNNNNNNNGG	165	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 604; 623; 649; 686; 713; 746; 765; 794; 865; 898; 923; 941; 973; 991; 1018; 1063; 1081; 1111; 1129; 1159; 1222; 1249; 1289; 1308; 1333; 1367; 1388; 1413; 1435; 1453; 1471; 1492; 1517; 1550; 1576; 1618; 1651; 1669; 1741; 1766; 1789; 1831; 1864; 1919; 1939; 1969; 1993; 2011; 2038; 2063; 2081; 2107; 2131; 2191; 2231; 2252; 2275; 2349; 2368; 2397; 2426; 2458; 2512; 2612; 2681; 2789; 2838; 2860; 2888; 2924; 2969; 2998; 3034; 3053; 3081; 3101; 3164; 3187; 3295; 3327; 3345; 3374; 3417; 3446; 3557; 3586; 3629; 3650; 3678; 3711; 3731; 3756; 3783; 3808; 3830; 3858; 3884; 3905; 3956; 3977; 3995; 4043; 4079; 4135; 4160; 4184; 4213; 4236; 4260; 4286; 4308; 4327; 4352; 4392; 4428; 4493; 4578; 4602; 4631; 4665; 4686; 4706; 4751; 4778; 4797; 4830; 4882; 4913; 4940; 4992; 5090; 5161; 5206; 5267; 5332; 5366; 5392; 5410; 5446; 5516; 5539; 5561; 5585; 5618; 5666; 5701; 5719; 5776
Fsp4HI	GC!NGC	44	702; 769; 939; 1131; 1134; 1141; 1293; 1364; 1627; 1657; 1935; 2036; 2071; 2115; 2250; 2373; 2618; 3137; 3159; 3173; 3611; 3750; 3802; 3813; 3903; 3908; 3945; 3986; 4073; 4076; 4079; 4315; 4411; 4452; 4466; 4580; 4919; 4934; 5145; 5351; 5354; 5419; 5562; 5717
GdiII	C!GGCCR	4	681; 1955; 2079; 3747
GdiII	Y!GGCCG	7	1145; 1782; 1890; 1955; 3747; 4312; 4339
GlaI	GC!GC	29	596; 700; 870; 898; 1287; 1367; 1456; 1933; 2350; 3106; 3114; 3140; 3162; 3171; 3184; 3215; 3834; 3842; 3906; 3943; 4209; 4469; 4645; 4731; 5134; 5243; 5417; 5517; 5584
GluI	GC!NGC	44	702; 769; 939; 1131; 1134; 1141; 1293; 1364; 1627; 1657; 1935; 2036; 2071; 2115; 2250; 2373; 2618; 3137; 3159; 3173; 3611; 3750; 3802; 3813; 3903; 3908; 3945; 3986; 4073; 4076; 4079; 4315; 4411; 4452; 4466; 4580; 4919; 4934; 5145; 5351; 5354; 5419; 5562; 5717
GsaI	CCCAG!C	5	1738; 2315; 3388; 3460; 5459
GsaI	GCTGG!G	1	4349
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	6	757; 1054; 1114; 1294; 2074; 4681
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	4624
HaeI	WGG!CCW	9	1081; 1687; 2029; 2386; 3662; 3923; 5285; 5737; 5748
HaeII	RGCGC!Y	8	598; 872; 1289; 1458; 3108; 3116; 3844; 5519

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIII	GG↓CC	39	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1252; 1402; 1432; 1519; 1669; 1687; 1784; 1892; 1957; 2029; 2081; 2386; 2444; 2807; 2949; 3604; 3610; 3619; 3662; 3749; 3923; 4314; 4341; 4850; 4907; 4940; 5285; 5719; 5737; 5748
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2516; 4037
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2482; 4003
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2515; 4036
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2484; 4005
HapII	C↓CGG	27	601; 638; 761; 1328; 1388; 1403; 1428; 1811; 1893; 2441; 2483; 3059; 3746; 3823; 3845; 3873; 4004; 4094; 4161; 4342; 4617; 4625; 4717; 5191; 5381; 5407; 5554
HgaI	GACGCNNNNN!	4	526; 727; 4551; 4630
HgaI	!NNNNNNNNNNNGCGTC	4	1864; 3174; 5069; 5647
HhaI	GCG↓C	29	597; 701; 871; 899; 1288; 1368; 1457; 1934; 2351; 3107; 3115; 3141; 3163; 3172; 3185; 3216; 3835; 3843; 3907; 3944; 4210; 4470; 4646; 4732; 5135; 5244; 5418; 5518; 5585
HinI	GR↓CGYC	9	122; 175; 258; 444; 719; 1455; 3841; 4543; 4622
Hin1II	CATG↓!	31	304; 364; 615; 846; 876; 1071; 1266; 1311; 1395; 1488; 1593; 1716; 1743; 1867; 1917; 2154; 2196; 2262; 3271; 3411; 3483; 3574; 3715; 4060; 4246; 4277; 4303; 4659; 5043; 5763; 5814
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	4	1401; 2354; 2515; 4036
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	2483; 4004; 4034
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	2515; 4036; 4066
Hin4I	!NNNNNNNNNGAYNNNNNVTC	4	1369; 2322; 2483; 4004
Hin6I	G↓CGC	29	595; 699; 869; 897; 1286; 1366; 1455; 1932; 2349; 3105; 3113; 3139; 3161; 3170; 3183; 3214; 3833; 3841; 3905; 3942; 4208; 4468; 4644; 4730; 5133; 5242; 5416; 5516; 5583
HinP1I	G↓CGC	29	595; 699; 869; 897; 1286; 1366; 1455; 1932; 2349; 3105; 3113; 3139; 3161; 3170; 3183; 3214; 3833; 3841; 3905; 3942; 4208; 4468; 4644; 4730; 5133; 5242; 5416; 5516; 5583
HincII	GTY↓RAC	2	1377; 2604
HindII	GTY↓RAC	2	1377; 2604
HindIII	A↓AGCTT	0	
HinfI	G↓ANTC	17	410; 1276; 1331; 1498; 1807; 2155; 2437; 2884; 2906; 3316; 4326; 4460; 4512; 4570; 4607; 5389; 5785
HpaI	GTT↓AAC	1	2604
HpaII	C↓CGG	27	601; 638; 761; 1328; 1388; 1403; 1428; 1811; 1893; 2441; 2483; 3059; 3746; 3823; 3845; 3873; 4004; 4094; 4161; 4342; 4617; 4625; 4717; 5191; 5381; 5407; 5554
HphI	GGTGANNNNNNNN!	8	376; 804; 957; 981; 1110; 1825; 4912; 5028
HphI	!NNNNNNNTCACC	8	1533; 1566; 1815; 1917; 1938; 2082; 2958; 4019
Hpy8I	GTN↓NAC	16	201; 539; 577; 678; 972; 1062; 1101; 1377; 2208; 2396; 2457; 2604; 2888; 2905; 2960; 5447
Hpy99I	CGWCG↓!	16	676; 721; 922; 1183; 1375; 1378; 1420; 1516; 2005; 3931; 3959; 4253; 4268; 4545; 4930; 5663
Hpy166II	GTN↓NAC	16	201; 539; 577; 678; 972; 1062; 1101; 1377; 2208; 2396; 2457; 2604; 2888; 2905; 2960; 5447
Hpy188I	TCN↓GA	14	585; 1223; 1336; 1493; 3015; 3624; 3808; 4152; 4505; 4606; 5085; 5219; 5572; 5650
Hpy188III	TC↓NNGA	31	864; 1107; 1328; 1340; 1639; 1800; 1879; 1914; 2193; 2328; 2344; 2489; 3268; 3320; 3633; 3686; 3859; 4175; 4184; 4267; 4323; 4367; 4457; 4490; 4559; 5040; 5114; 5197; 5295; 5393; 5527
HpyAV	CCTTCNNNNNN!	9	1290; 1623; 1734; 2147; 2190; 2409; 4486; 4593; 5272
HpyAV	!NNNNNNGAAGG	10	981; 1488; 2283; 3074; 3969; 4698; 4714; 4897; 5214; 5524
HpyCH4III	ACN↓GT	15	76; 198; 269; 543; 581; 1833; 2238; 2932; 4221; 4337; 4445; 4768; 5259; 5729; 5800
HpyCH4IV	A↓CGT	20	122; 134; 175; 258; 339; 444; 674; 1058; 1166; 1745; 2000; 2204; 2901; 2913; 2956; 3066; 3957; 4144; 4925; 5058
HpyCH4V	TG↓CA	21	678; 755; 1140; 1397; 2286; 2590; 2617; 2685; 3402; 3411; 3474; 3483; 3598; 3674; 3733; 3892; 4067; 4081; 5151; 5447; 5814
HpyF3I	C↓TNAG	11	1213; 1220; 1333; 2120; 2345; 3321; 3623; 4504; 4953; 5076; 5485
HpyF10VI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 660; 701; 761; 774; 818; 1049; 1241; 1292; 1403; 1429; 1461; 1532; 1653; 1756; 1940; 2035; 3068; 3098; 3125; 3167; 3408; 3480; 3531; 3610; 3832; 3916; 3939; 4078; 4201; 4284; 4551; 4738; 4942; 5141; 5713
Hsp92I	GR↓CGYC	9	122; 175; 258; 444; 719; 1455; 3841; 4543; 4622

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hsp92II	CATG!	31	304; 364; 615; 846; 876; 1071; 1266; 1311; 1395; 1488; 1593; 1716; 1743; 1867; 1917; 2154; 2196; 2262; 3271; 3411; 3483; 3574; 3715; 4060; 4246; 4277; 4303; 4659; 5043; 5763; 5814
HspAI	G!CGC	29	595; 699; 869; 897; 1286; 1366; 1455; 1932; 2349; 3105; 3113; 3139; 3161; 3170; 3183; 3214; 3833; 3841; 3905; 3942; 4208; 4468; 4644; 4730; 5133; 5242; 5416; 5516; 5583
KasI	G!GCGCC	2	1454; 3840
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1327
KspI	CCGC!GG	1	939
Ksp22I	T!GATCA	1	2498
KspAI	GTT!AAC	1	2604
Kzo9I	!GATC	31	585; 656; 740; 1193; 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
LguI	GCTCTTCN!	0	
LguI	!NNNGAAGAGC	3	2053; 4185; 4395
LpnI	RGC!GCGY	8	596; 870; 1287; 1456; 3106; 3114; 3842; 5517
LpnPI	CCDGNNNNNNNNN!	90	102; 295; 614; 651; 774; 792; 829; 904; 925; 979; 1033; 1105; 1171; 1186; 1225; 1285; 1302; 1341; 1401; 1416; 1441; 1473; 1534; 1558; 1687; 1720; 1748; 1768; 1783; 1824; 1885; 1906; 2020; 2055; 2087; 2132; 2146; 2172; 2236; 2279; 2317; 2357; 2395; 2416; 2454; 2496; 2578; 2883; 3072; 3295; 3333; 3349; 3389; 3444; 3461; 3561; 3646; 3759; 3836; 3858; 3881; 4017; 4031; 4050; 4107; 4174; 4224; 4240; 4297; 4355; 4564; 4630; 4654; 4730; 4819; 4922; 4955; 5186; 5204; 5350; 5370; 5394; 5420; 5469; 5567; 5612; 5642; 5721; 5746; 5783
LpnPI	!NNNNNNNNNNNNNCHGG	78	75; 268; 552; 586; 623; 649; 721; 746; 765; 877; 898; 952; 1006; 1078; 1129; 1159; 1258; 1308; 1373; 1413; 1446; 1566; 1587; 1741; 1766; 1796; 1864; 1993; 2038; 2068; 2131; 2231; 2252; 2290; 2368; 2410; 2468; 2924; 3044; 3101; 3164; 3362; 3374; 3434; 3446; 3678; 3723; 3766; 3808; 3830; 3858; 3905; 3967; 3989; 4079; 4146; 4169; 4213; 4308; 4327; 4352; 4501; 4602; 4645; 4702; 4792; 4895; 4922; 4940; 5176; 5213; 5366; 5392; 5532; 5550; 5585; 5666; 5719
Lsp1109I	GCAGCNNNNNNNN!	7	1152; 2629; 3914; 3956; 4477; 4930; 5430
Lsp1109I	!NNNNNNNNNNNGCTGC	13	755; 1279; 1613; 1643; 2022; 2057; 2101; 3123; 3788; 3972; 4065; 5131; 5337
LweI	GCATCNNNNN!	13	650; 821; 986; 1544; 1577; 1805; 2174; 2657; 3420; 3492; 4140; 4204; 4479
LweI	!NNNNNNNNNGATGC	7	357; 1410; 2273; 3799; 4054; 4270; 5662
MabI	A!CCWGGT	1	3430
MaeI	C!TAG	9	592; 2472; 2489; 2690; 3108; 3664; 4679; 5013; 5266
MaeII	A!CGT	20	122; 134; 175; 258; 339; 444; 674; 1058; 1166; 1745; 2000; 2204; 2901; 2913; 2956; 3066; 3957; 4144; 4925; 5058
MaeIII	!GTNAC	18	61; 148; 497; 792; 1572; 1813; 1821; 1975; 2200; 2629; 3130; 3142; 3961; 4267; 4957; 5223; 5339; 5402
MalI	GA!TC	31	587; 658; 742; 1195; 1338; 1711; 1921; 2296; 2326; 2332; 2368; 2416; 2478; 2487; 2500; 3680; 3684; 3703; 4014; 4092; 4173; 4182; 4260; 4636; 4652; 5011; 5023; 5101; 5109; 5120; 5195
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3265; 4454
MbiI	GAG!CGG	5	617; 1962; 2106; 3101; 4508
MboI	!GATC	31	585; 656; 740; 1193; 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
MboII	GAAGANNNNNNNN!	10	858; 1710; 1929; 2070; 2334; 3097; 3325; 4202; 4412; 5031
MboII	!NNNNNNNTCTTC	8	852; 900; 1428; 2121; 4492; 4659; 4859; 5102
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2591
MflI	R!GATCY	12	585; 1336; 1919; 2476; 2485; 4012; 4258; 4650; 5009; 5021; 5107; 5118

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MhII	GDGCH!C	18	650; 680; 779; 842; 1172; 1219; 1271; 1565; 1649; 1838; 3032; 3787; 3880; 3954; 4144; 4206; 4916; 5449
MIsI	TGG!CCA	2	2029; 3923
MluI	A!CGCGT	1	2727
MluNI	TGG!CCA	2	2029; 3923
MlyI	GAGTCNNNNN!	5	1285; 2164; 2446; 2893; 3325
MlyI	!NNNNNGACTC	6	404; 1325; 1801; 2900; 4506; 5383
Mly113I	GG!CGCC	2	1455; 3841
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	2934
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	5366; 5550
MnII	CCTCNNNNNNN!	19	811; 916; 1452; 1549; 1788; 1867; 1921; 1933; 2058; 2351; 2397; 2457; 2560; 3624; 4442; 4648; 4962; 5332; 5656
MnII	!NNNNNGAGG	28	541; 618; 699; 873; 936; 948; 999; 1089; 1119; 1242; 1509; 1525; 1635; 1659; 1839; 2115; 2520; 2985; 3316; 3594; 3637; 3652; 3692; 3756; 3892; 4249; 4679; 5582
Mph1103I	ATGCA!T	3	3413; 3485; 5816
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1327
MroNI	G!CCGGC	5	637; 1402; 3058; 4341; 4624
MroXI	GAANN!NNTTC	1	856
MscI	TGG!CCA	2	2029; 3923
MseI	T!TAA	16	7; 1982; 2542; 2603; 2724; 2745; 2756; 2768; 2779; 2796; 2894; 3165; 4984; 4998; 5003; 5055
MslI	CAYNN!NNRTG	7	365; 790; 847; 967; 1801; 2257; 4278
MspI	C!CGG	27	601; 638; 761; 1328; 1388; 1403; 1428; 1811; 1893; 2441; 2483; 3059; 3746; 3823; 3845; 3873; 4004; 4094; 4161; 4342; 4617; 4625; 4717; 5191; 5381; 5407; 5554
Msp20I	TGG!CCA	2	2029; 3923
MspA1I	CMG!CKG	7	938; 1143; 2114; 3339; 3947; 5176; 5421
MspCI	C!TTAAG	0	
MspJI	CNNRRNNNNNNNNN!	297	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; 630; 650; 663; 676; 691; 708; 723; 744; 773; 786; 801; 828; 847; 876; 889; 903; 924; 942; 966; 979; 993; 1014; 1032; 1045; 1066; 1080; 1094; 1119; 1137; 1156; 1170; 1185; 1198; 1224; 1248; 1265; 1284; 1301; 1315; 1335; 1352; 1377; 1400; 1415; 1439; 1461; 1479; 1497; 1514; 1527; 1552; 1567; 1589; 1602; 1621; 1642; 1663; 1676; 1693; 1707; 1720; 1746; 1767; 1782; 1798; 1812; 1830; 1849; 1874; 1891; 1905; 1924; 1940; 1965; 1983; 2019; 2032; 2054; 2079; 2094; 2131; 2145; 2158; 2171; 2184; 2205; 2227; 2243; 2258; 2271; 2288; 2316; 2340; 2356; 2373; 2394; 2415; 2433; 2448; 2473; 2495; 2509; 2524; 2548; 2565; 2578; 2619; 2633; 2646; 2664; 2702; 2717; 2735; 2776; 2800; 2820; 2838; 2859; 2882; 2914; 2929; 2951; 2969; 2982; 3003; 3020; 3033; 3046; 3062; 3075; 3105; 3120; 3145; 3163; 3176; 3191; 3215; 3229; 3253; 3278; 3294; 3332; 3348; 3387; 3401; 3415; 3443; 3459; 3473; 3487; 3516; 3529; 3550; 3559; 3581; 3611; 3627; 3645; 3675; 3698; 3722; 3746; 3765; 3793; 3819; 3835; 3848; 3871; 3885; 3905; 3918; 3932; 3951; 3965; 3978; 3994; 4009; 4022; 4038; 4053; 4069; 4094; 4113; 4129; 4142; 4155; 4173; 4187; 4201; 4217; 4239; 4255; 4274; 4296; 4312; 4335; 4354; 4368; 4384; 4398; 4418; 4434; 4447; 4469; 4502; 4516; 4536; 4549; 4563; 4617; 4630; 4653; 4666; 4685; 4702; 4729; 4765; 4798; 4817; 4842; 4863; 4890; 4903; 4920; 4934; 4949; 4965; 5025; 5050; 5066; 5088; 5101; 5115; 5146; 5160; 5185; 5203; 5218; 5231; 5250; 5263; 5278; 5307; 5326; 5344; 5369; 5384; 5403; 5419; 5438; 5456; 5472; 5486; 5505; 5532; 5555; 5577; 5596; 5611; 5624; 5641; 5661; 5688; 5701; 5720; 5745; 5768; 5782; 5795; 5812



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	253	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; 620; 637; 661; 678; 697; 718; 738; 758; 775; 794; 813; 850; 877; 898; 916; 938; 967; 988; 1006; 1045; 1063; 1093; 1111; 1130; 1153; 1172; 1198; 1218; 1239; 1258; 1275; 1294; 1313; 1333; 1351; 1373; 1394; 1413; 1435; 1453; 1471; 1490; 1507; 1531; 1550; 1567; 1587; 1609; 1627; 1651; 1669; 1693; 1721; 1741; 1760; 1779; 1796; 1819; 1838; 1858; 1875; 1900; 1919; 1939; 1957; 1980; 2000; 2017; 2038; 2060; 2082; 2105; 2131; 2156; 2179; 2199; 2231; 2252; 2290; 2314; 2332; 2349; 2368; 2389; 2407; 2426; 2458; 2475; 2493; 2522; 2551; 2593; 2676; 2714; 2738; 2761; 2790; 2834; 2856; 2888; 2924; 2941; 2962; 2999; 3019; 3036; 3053; 3088; 3106; 3124; 3141; 3165; 3187; 3214; 3242; 3268; 3306; 3327; 3344; 3362; 3385; 3406; 3434; 3457; 3478; 3496; 3517; 3534; 3557; 3581; 3601; 3619; 3641; 3672; 3694; 3720; 3739; 3756; 3784; 3803; 3822; 3840; 3858; 3879; 3901; 3925; 3958; 3978; 3996; 4017; 4043; 4070; 4087; 4104; 4121; 4147; 4169; 4191; 4209; 4229; 4248; 4270; 4308; 4328; 4352; 4372; 4392; 4419; 4443; 4476; 4495; 4523; 4545; 4574; 4602; 4627; 4646; 4665; 4686; 4703; 4720; 4751; 4778; 4798; 4821; 4841; 4878; 4895; 4914; 4940; 4960; 4999; 5026; 5045; 5063; 5100; 5118; 5159; 5177; 5203; 5220; 5252; 5281; 5309; 5330; 5353; 5372; 5393; 5411; 5428; 5446; 5472; 5493; 5513; 5533; 5551; 5572; 5598; 5615; 5634; 5653; 5682; 5701; 5719; 5738; 5756; 5774; 5797
MspR9I	CC!NGG	38	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 1428; 1429; 1461; 1468; 1756; 1885; 1894; 2008; 2053; 2083; 2146; 2267; 2305; 2383; 3377; 3432; 3449; 3845; 4005; 4228; 4618; 4807; 4910; 5382; 5600; 5613; 5734
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	2591
MvaI	CC!WGG	31	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 1461; 1468; 1756; 1885; 2008; 2053; 2083; 2146; 2267; 2305; 2383; 3377; 3432; 3449; 4228; 4807; 4910; 5600; 5613; 5734
Mva1269I	GAATGCN!	1	2592
Mva1269I	G!CATTC	1	2685
MvnI	CG!CG	22	60; 701; 938; 1256; 1366; 1411; 1694; 1934; 2729; 2765; 3141; 3161; 3185; 3216; 3907; 4208; 4646; 4730; 4793; 4862; 5135; 5716
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 660; 701; 761; 774; 818; 1049; 1241; 1292; 1403; 1429; 1461; 1532; 1653; 1756; 1940; 2035; 3068; 3098; 3125; 3167; 3408; 3480; 3531; 3610; 3832; 3916; 3939; 4078; 4201; 4284; 4551; 4738; 4942; 5141; 5713
NaeI	GCC!GGC	5	639; 1404; 3060; 4343; 4626
NarI	GG!CGCC	2	1455; 3841
NciI	CC!SGG	7	1428; 1429; 1894; 3845; 4005; 4618; 5382
NcoI	C!CATGG	3	360; 3570; 4273
NdeI	CA!TATG	1	234
NdeII	!GATC	31	585; 656; 740; 1193; 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
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	3	280; 1830; 1920
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	3	244; 1794; 1884
NgoMIV	G!CCGGC	5	637; 1402; 3058; 4341; 4624
NheI	G!CTAGC	1	591
NlaII	CATG!	31	304; 364; 615; 846; 876; 1071; 1266; 1311; 1395; 1488; 1593; 1716; 1743; 1867; 1917; 2154; 2196; 2262; 3271; 3411; 3483; 3574; 3715; 4060; 4246; 4277; 4303; 4659; 5043; 5763; 5814
NlaIV	GGN!NCC	28	467; 1185; 1386; 1456; 1465; 1606; 1637; 1670; 1897; 2110; 2253; 2309; 2376; 2445; 2478; 2996; 3017; 3029; 3220; 3381; 3453; 3842; 3877; 4725; 4804; 4849; 5692; 5731
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	2112; 2673; 2988; 4580
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 1456; 1783; 5652
Nli3877I	CYCGR!G	5	839; 881; 1344; 1431; 1643
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1983; 3630; 4066
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	3595



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmeDI	RCCGGYNNNNNNN!	8	612; 649; 772; 1414; 3070; 4172; 4353; 4636
NmeDI	!NNNNNNNNNNRCCGGY	8	587; 624; 747; 1389; 3045; 4147; 4328; 4611
NmuCI	!GTSAC	9	792; 1572; 1813; 1821; 1975; 2200; 3130; 3961; 4267
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3943
NsiI	ATGCA!T	3	3413; 3485; 5816
NspI	RCATG!Y	5	1395; 3411; 3483; 4246; 5763
NspV	TT!CGAA	1	4523
OliI	CACNN!NNGTG	2	790; 967
PabI	GTA!C	18	220; 245; 300; 333; 384; 541; 929; 1040; 1064; 1322; 1553; 1745; 1775; 1789; 2228; 2264; 2357; 4148
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3411; 3483; 4246
PaeR7I	C!TCGAG	1	1340
PagI	T!CATGA	4	1913; 2192; 3267; 5039
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1173; 4806; 4909
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	3662
PciI	A!CATGT	1	5759
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	2053; 4185; 4395
PcsI	WCGNNNN!NNNCGW	11	641; 1253; 1310; 1367; 1415; 4135; 4212; 4455; 4529; 4922; 5440
PctI	GAATGCN!	1	2592
PctI	G!CATTC	1	2685
PdiI	GCC!GGC	5	639; 1404; 3060; 4343; 4626
PdmI	GAANN!NNTTC	1	856
PfeI	G!AWTC	6	1498; 4326; 4460; 4570; 4607; 5785
Pfl23II	C!GTACG	0	
PfI FI	GACN!NNGTC	2	1819; 3959
PfI MI	CCANNNN!NTGG	2	1032; 1308
PfoI	T!CCNGGA	4	890; 911; 1271; 4616
PhoI	GG!CC	39	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1252; 1402; 1432; 1519; 1669; 1687; 1784; 1892; 1957; 2029; 2081; 2386; 2444; 2807; 2949; 3604; 3610; 3619; 3662; 3749; 3923; 4314; 4341; 4850; 4907; 4940; 5285; 5719; 5737; 5748
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	2	1256; 4222
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	3787; 4042
PleI	GAGTCNNNN!	5	1284; 2163; 2445; 2892; 3324
PleI	!NNNNNGACTC	6	404; 1325; 1801; 2900; 4506; 5383
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	2923
PpiI	!NNNNNNNGAGNNNNNGTTC	4	616; 730; 934; 5053
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	4	648; 762; 966; 5085
PpiI	!NNNNNNNGAACNNNNNCTC	1	2891
PpsI	GAGTCNNNN!	5	1284; 2163; 2445; 2892; 3324
PpsI	!NNNNNGACTC	6	404; 1325; 1801; 2900; 4506; 5383
Ppu10I	A!TGCAT	3	3409; 3481; 5812
Ppu21I	YAC!GTR	3	340; 2957; 4145
PpuMI	RG!GWCCY	1	1896
PscI	A!CATGT	1	5759
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2624; 2829
Psp03I	GGWC!C	6	1242; 1328; 1884; 1899; 4360; 4805
Psp5II	RG!GWCCY	1	1896
Psp6I	!CCWGG	31	88; 281; 778; 788; 890; 911; 965; 1019; 1091; 1172; 1271; 1459; 1466; 1754; 1883; 2006; 2051; 2081; 2144; 2265; 2303; 2381; 3375; 3430; 3447; 4226; 4805; 4908; 5598; 5611; 5732
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	2	792; 1821
PspGI	!CCWGG	31	88; 281; 778; 788; 890; 911; 965; 1019; 1091; 1172; 1271; 1459; 1466; 1754; 1883; 2006; 2051; 2081; 2144; 2265; 2303; 2381; 3375; 3430; 3447; 4226; 4805; 4908; 5598; 5611; 5732
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	28	467; 1185; 1386; 1456; 1465; 1606; 1637; 1670; 1897; 2110; 2253; 2309; 2376; 2445; 2478; 2996; 3017; 3029; 3220; 3381; 3453; 3842; 3877; 4725; 4804; 4849; 5692; 5731
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 3571; 4570
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	2	1155; 3973
PspPI	G!GNCC	20	83; 276; 782; 1023; 1183; 1239; 1251; 1325; 1430; 1518; 1668; 1881; 1896; 2443; 2948; 4357; 4802; 4848; 4906; 4939
PspPPI	RG!GWCCY	1	1896
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	5	1478; 1753; 3394; 3466; 4972
PspPRI	!NNNNNNNNNNNNNNCTGRGG	3	2106; 3307; 4502
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	3	1671; 1899; 4942
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	3	1289; 4942; 5350
PsuI	R!GATCY	12	585; 1336; 1919; 2476; 2485; 4012; 4258; 4650; 5009; 5021; 5107; 5118
PsyI	GACN!NNGTC	2	1819; 3959
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1143; 3339; 3947
RcaI	T!CATGA	4	1913; 2192; 3267; 5039
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	4356
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	2	1843; 2570
RleAI	!NNNNNNNNNTGTGGG	1	1496
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	18	219; 244; 299; 332; 383; 540; 928; 1039; 1063; 1321; 1552; 1744; 1774; 1788; 2227; 2263; 2356; 4147
RsaNI	G!TAC	18	218; 243; 298; 331; 382; 539; 927; 1038; 1062; 1320; 1551; 1743; 1773; 1787; 2226; 2262; 2355; 4146
RseI	CAYNN!NNRTG	7	365; 790; 847; 967; 1801; 2257; 4278
RsrII	CG!GWCCG	1	4357
Rsr2I	CG!GWCCG	1	4357
SacI	GAGCT!C	0	
SacII	CCGC!GG	1	939
SalI	G!TCGAC	1	1375
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	2053; 4185; 4395
SaqAI	T!TAA	16	7; 1982; 2542; 2603; 2724; 2745; 2756; 2768; 2779; 2796; 2894; 3165; 4984; 4998; 5003; 5055
SatI	GC!NGC	44	702; 769; 939; 1131; 1134; 1141; 1293; 1364; 1627; 1657; 1935; 2036; 2071; 2115; 2250; 2373; 2618; 3137; 3159; 3173; 3611; 3750; 3802; 3813; 3903; 3908; 3945; 3986; 4073; 4076; 4079; 4315; 4411; 4452; 4466; 4580; 4919; 4934; 5145; 5351; 5354; 5419; 5562; 5717
Sau96I	G!GNCC	20	83; 276; 782; 1023; 1183; 1239; 1251; 1325; 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)
Sau3AI	!GATC	31	585; 656; 740; 1193; 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
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	1	2356
SchI	GAGTCNNNNN!	5	1285; 2164; 2446; 2893; 3325
SchI	!NNNNNGACTC	6	404; 1325; 1801; 2900; 4506; 5383
SciI	CTC!GAG	1	1342
ScrFI	CC!NGG	38	90; 283; 780; 790; 892; 913; 967; 1021; 1093; 1174; 1273; 1428; 1429; 1461; 1468; 1756; 1885; 1894; 2008; 2053; 2083; 2146; 2267; 2305; 2383; 3377; 3432; 3449; 3845; 4005; 4228; 4618; 4807; 4910; 5382; 5600; 5613; 5734
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	8	918; 1518; 2313; 2451; 3419; 3491; 3660; 5602
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	4	1250; 2322; 3996; 4481
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	2	279; 1829
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	2	245; 1795
SduI	GDGCH!C	18	650; 680; 779; 842; 1172; 1219; 1271; 1565; 1649; 1838; 3032; 3787; 3880; 3954; 4144; 4206; 4916; 5449
SelI	!CGCG	22	58; 699; 936; 1254; 1364; 1409; 1692; 1932; 2727; 2763; 3139; 3159; 3183; 3214; 3905; 4206; 4644; 4728; 4791; 4860; 5133; 5714
SetI	ASST!	84	125; 137; 178; 261; 308; 342; 447; 552; 568; 632; 665; 677; 737; 770; 947; 986; 1034; 1045; 1061; 1100; 1145; 1169; 1214; 1319; 1327; 1347; 1615; 1628; 1726; 1748; 1886; 1901; 1913; 1945; 1994; 2003; 2047; 2065; 2072; 2087; 2182; 2207; 2225; 2401; 2531; 2552; 2561; 2573; 2622; 2789; 2904; 2916; 2959; 2996; 3046; 3069; 3193; 3341; 3436; 3629; 3742; 3870; 3949; 3960; 4032; 4103; 4147; 4407; 4553; 4597; 4928; 4959; 5018; 5061; 5204; 5225; 5324; 5461; 5476; 5495; 5507; 5551; 5597; 5648
SexAI	A!CCWGGT	1	3430
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	13	650; 821; 986; 1544; 1577; 1805; 2174; 2657; 3420; 3492; 4140; 4204; 4479
SfaNI	!NNNNNNNNNGATGC	7	357; 1410; 2273; 3799; 4054; 4270; 5662
Sfcl	C!TRYAG	4	1938; 3176; 5303; 5494
SfiI	GGCCNNNN!NGGCC	1	3616
SfoI	GGC!GCC	2	1456; 3842
Sfr274I	C!TCGAG	1	1340
Sfr303I	CCGC!GG	1	939
SfuI	TT!CGAA	1	4523
SgeI	CNNGNNNNNNNNN!	247	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 650; 663; 676; 691; 708; 723; 744; 773; 786; 801; 828; 847; 876; 889; 903; 924; 942; 966; 979; 993; 1014; 1032; 1045; 1071; 1084; 1104; 1119; 1137; 1156; 1170; 1185; 1198; 1224; 1248; 1265; 1284; 1301; 1315; 1335; 1352; 1377; 1400; 1415; 1439; 1461; 1479; 1497; 1527; 1557; 1572; 1593; 1614; 1642; 1663; 1677; 1695; 1719; 1747; 1767; 1782; 1805; 1823; 1857; 1876; 1891; 1905; 1926; 1941; 1965; 1983; 2019; 2032; 2054; 2079; 2094; 2131; 2145; 2158; 2171; 2205; 2235; 2258; 2271; 2292; 2316; 2340; 2356; 2373; 2394; 2415; 2433; 2448; 2484; 2501; 2548; 2577; 2619; 2702; 2740; 2776; 2860; 2882; 2914; 2951; 2969; 2988; 3003; 3045; 3062; 3079; 3114; 3128; 3145; 3167; 3191; 3215; 3280; 3294; 3332; 3348; 3388; 3401; 3420; 3443; 3460; 3473; 3492; 3522; 3543; 3560; 3583; 3618; 3645; 3676; 3698; 3724; 3746; 3765; 3793; 3829; 3848; 3871; 3885; 3905; 3918; 3932; 3951; 3965; 3984; 4016; 4030; 4043; 4069; 4100; 4113; 4130; 4147; 4161; 4178; 4196; 4211; 4239; 4255; 4274; 4296; 4312; 4335; 4354; 4379; 4398; 4418; 4445; 4469; 4502; 4521; 4549; 4563; 4629; 4653; 4668; 4691; 4712; 4729; 4777; 4804; 4818; 4847; 4871; 4904; 4921; 4941; 4954; 4967; 5025; 5052; 5071; 5101; 5126; 5146; 5160; 5185; 5203; 5240; 5278; 5307; 5335; 5349; 5369; 5384; 5405; 5419; 5438; 5456; 5472; 5512; 5532; 5559; 5577; 5598; 5611; 5624; 5641; 5665; 5688; 5720; 5745; 5772; 5794

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	215	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 624; 646; 665; 682; 718; 747; 765; 802; 821; 850; 877; 898; 916; 940; 967; 988; 1006; 1045; 1063; 1093; 1111; 1130; 1153; 1172; 1198; 1222; 1239; 1258; 1275; 1294; 1314; 1351; 1374; 1396; 1413; 1435; 1453; 1471; 1501; 1531; 1550; 1567; 1588; 1616; 1637; 1660; 1679; 1699; 1721; 1741; 1767; 1786; 1804; 1831; 1850; 1870; 1900; 1919; 1939; 1957; 1993; 2017; 2038; 2060; 2105; 2131; 2156; 2179; 2209; 2232; 2252; 2290; 2314; 2338; 2368; 2389; 2407; 2427; 2458; 2475; 2522; 2551; 2593; 2676; 2714; 2750; 2834; 2856; 2888; 2925; 2943; 2962; 3019; 3036; 3053; 3088; 3106; 3126; 3146; 3165; 3189; 3254; 3306; 3362; 3394; 3417; 3434; 3466; 3496; 3517; 3534; 3557; 3592; 3619; 3650; 3672; 3698; 3720; 3739; 3767; 3803; 3822; 3845; 3866; 3884; 3901; 3925; 3958; 3990; 4017; 4043; 4074; 4104; 4121; 4147; 4170; 4191; 4213; 4233; 4253; 4270; 4309; 4328; 4353; 4372; 4392; 4419; 4443; 4476; 4495; 4523; 4545; 4603; 4627; 4646; 4665; 4686; 4703; 4751; 4778; 4798; 4821; 4845; 4878; 4895; 4915; 4941; 4999; 5026; 5045; 5075; 5100; 5120; 5159; 5177; 5214; 5252; 5281; 5309; 5330; 5358; 5379; 5412; 5430; 5486; 5506; 5533; 5551; 5572; 5598; 5615; 5639; 5662; 5694; 5719; 5746; 5768; 5797
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	939
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	6	27; 1489; 1821; 2988; 4775; 5568
SimI	!GACCC	7	106; 932; 1109; 1703; 4269; 4837; 5085
SinI	G!GWCC	6	1239; 1325; 1881; 1896; 4357; 4802
SlaI	C!TCGAG	1	1340
SmaI	CCC!GGG	1	1429
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	7	365; 790; 847; 967; 1801; 2257; 4278
SmlI	C!TYRAG	5	1340; 4232; 5114; 5391; 5653
SmoI	C!TYRAG	5	1340; 4232; 5114; 5391; 5653
SmuI	CCCGCNNNN!	12	93; 119; 286; 835; 943; 1120; 1261; 3163; 3518; 3539; 4735; 4867
SmuI	!NNNNNNGCGGG	8	610; 1404; 1955; 3094; 3964; 4501; 4639; 4786
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3411; 3483; 4246
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	10	18; 2591; 2655; 2733; 2759; 2770; 3417; 3489; 3581; 4999
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	3662
SsiI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 828; 936; 975; 1113; 1226; 1242; 1254; 1364; 1692; 2112; 2214; 2460; 3156; 3159; 3173; 3263; 3511; 3523; 3532; 3544; 3554; 3565; 3611; 3750; 3813; 4315; 4360; 4426; 4452; 4577; 4580; 4728; 4860; 5167; 5311; 5807
SsiI	G!CGG	34	370; 403; 528; 617; 701; 938; 1130; 1133; 1411; 1934; 1962; 2106; 2249; 2372; 3101; 3128; 3216; 3326; 3907; 3971; 4072; 4075; 4355; 4410; 4508; 4646; 4793; 4933; 5176; 5421; 5542; 5561; 5688; 5716
SspI	AAT!ATT	2	2749; 3302
SspDI	G!GCGCC	2	1454; 3840
SspD5I	GGTGANNNNNNN!	8	376; 804; 957; 981; 1110; 1825; 4912; 5028
SspD5I	!NNNNNNNNTCACC	8	1532; 1565; 1814; 1916; 1937; 2081; 2957; 4018
SstI	GAGCT!C	0	
SstII	CCGC!GG	1	939
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	28	92; 118; 285; 656; 779; 834; 842; 884; 942; 1079; 1119; 1193; 1260; 1434; 1646; 1658; 3040; 3162; 3517; 3538; 3851; 4254; 4393; 4464; 4734; 4866; 5096; 5534
Sth132I	!NNNNNNNNCGGG	24	15; 407; 470; 609; 1403; 1420; 1809; 1885; 1954; 3041; 3093; 3194; 3921; 3963; 3996; 4500; 4609; 4638; 4785; 4889; 4920; 5373; 5417; 5625

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sth302II	CC!GG	27	602; 639; 762; 1329; 1389; 1404; 1429; 1812; 1894; 2442; 2484; 3060; 3747; 3824; 3846; 3874; 4005; 4095; 4162; 4343; 4618; 4626; 4718; 5192; 5382; 5408; 5555
StrI	C!TCGAG	1	1340
StsI	GGATGNNNNNNNNNN!	6	1364; 2296; 3709; 4166; 4191; 4645
StsI	!NNNNNNNNNNNNNNCATCC	9	798; 873; 1002; 1521; 1854; 2151; 2196; 2364; 3513
StuI	AGG!CCT	1	3662
StyI	C!CWWGG	6	360; 1682; 3570; 3663; 4273; 4678
StyD4I	!CCNGG	38	88; 281; 778; 788; 890; 911; 965; 1019; 1091; 1172; 1271; 1426; 1427; 1459; 1466; 1754; 1883; 1892; 2006; 2051; 2081; 2144; 2265; 2303; 2381; 3375; 3430; 3447; 3843; 4003; 4226; 4616; 4805; 4908; 5380; 5598; 5611; 5732
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 1833; 2238; 2932; 4221; 4337; 4445; 4768; 5259; 5729; 5800
TaiI	ACGT!	20	125; 137; 178; 261; 342; 447; 677; 1061; 1169; 1748; 2003; 2207; 2904; 2916; 2959; 3069; 3960; 4147; 4928; 5061
TaqI	T!CGA	19	659; 953; 980; 1124; 1341; 1376; 1559; 2015; 2990; 3681; 3954; 4110; 4134; 4170; 4332; 4523; 4568; 4823; 5661
TaqII	GACCGANNNNNNNNNN!	4	1678; 2861; 3878; 4546
TaqII	!NNNNNNNNNTCGGTC	1	4790
TaqII	CACCCANNNNNNNNNN!	3	1315; 1840; 2325
TaqII	!NNNNNNNNNTGGGTG	3	172; 3745; 4337
TasI	!AATT	10	18; 2591; 2655; 2733; 2759; 2770; 3417; 3489; 3581; 4999
TatI	W!GTACW	9	217; 297; 330; 381; 926; 1037; 1061; 1319; 2354
TauI	GCSG!C	23	704; 941; 1133; 1136; 1366; 1937; 2252; 2375; 3161; 3175; 3613; 3752; 3815; 3910; 4075; 4078; 4317; 4413; 4454; 4582; 4936; 5564; 5719
TfiI	G!AWTC	6	1498; 4326; 4460; 4570; 4607; 5785
TliI	C!TCGAG	1	1340
TruII	T!TAA	16	7; 1982; 2542; 2603; 2724; 2745; 2756; 2768; 2779; 2796; 2894; 3165; 4984; 4998; 5003; 5055
Tru9I	T!TAA	16	7; 1982; 2542; 2603; 2724; 2745; 2756; 2768; 2779; 2796; 2894; 3165; 4984; 4998; 5003; 5055
TscAI	CASTGNN!	10	823; 1797; 1836; 2243; 2304; 2687; 3970; 5080; 5351; 5364
TseI	G!CWGC	21	768; 1140; 1292; 1626; 1656; 2035; 2070; 2114; 2617; 3136; 3801; 3902; 3944; 3985; 4078; 4465; 4918; 5144; 5350; 5353; 5418
TsoI	TARCCANNNNNNNNNN!	2	2813; 3160
TsoI	!NNNNNNNNNTGGYTA	2	2618; 4370
Tsp45I	!GTSAC	9	792; 1572; 1813; 1821; 1975; 2200; 3130; 3961; 4267
Tsp509I	!AATT	10	18; 2591; 2655; 2733; 2759; 2770; 3417; 3489; 3581; 4999
TspDTI	ATGAANNNNNNNNNN!	7	859; 1930; 2209; 2335; 2599; 3900; 4604
TspDTI	!NNNNNNNNNTTCAT	5	26; 738; 4318; 4774; 4981
TspEI	!AATT	10	18; 2591; 2655; 2733; 2759; 2770; 3417; 3489; 3581; 4999
TspGWI	ACGGANNNNNNNNNN!	1	4716
TspGWI	!NNNNNNNNNTCCGT	1	2349
TspMI	C!CCGGG	1	1427
TspRI	CASTGNN!	10	823; 1797; 1836; 2243; 2304; 2687; 3970; 5080; 5351; 5364
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	1	1978
TstI	GGANNNNNGTGNNNNNNNNNN!	1	2010
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	2	1819; 3959
Tth111II	CAARCANNNNNNNNNN!	2	2437; 5168
Tth111III	!NNNNNNNNNTGYTTG	4	1705; 4276; 5136; 5175
UnbI	!GGNCC	20	82; 275; 781; 1022; 1182; 1238; 1250; 1324; 1429; 1517; 1667; 1880; 1895; 2442; 2947; 4356; 4801; 4847; 4905; 4938
Van9II	CCANNNN!NTGG	2	1032; 1308
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	676; 5445
VpaK11AI	!GGWCC	6	1238; 1324; 1880; 1895; 4356; 4801
VpaK11BI	G!GWCC	6	1239; 1325; 1881; 1896; 4357; 4802
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	1	910
XapI	R!AATTY	3	2655; 2759; 2770
XbaI	T!CTAGA	1	2488

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XceI	RCATG!Y	5	1395; 3411; 3483; 4246; 5763
XcmI	CCANNNNN!NNNTGG	4	1089; 1170; 1875; 2049
XhoI	C!TCGAG	1	1340
XhoII	R!GATCY	12	585; 1336; 1919; 2476; 2485; 4012; 4258; 4650; 5009; 5021; 5107; 5118
XmaI	C!CCGGG	1	1427
XmaJI	C!CTAGG	2	3663; 4678
XmiI	GT!MKAC	1	1376
XmnI	GAANN!NNTTC	1	856
XspI	C!TAG	9	592; 2472; 2489; 2690; 3108; 3664; 4679; 5013; 5266
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	1	2356
Zsp2I	ATGCA!T	3	3413; 3485; 5816