

pPA-TagRFP-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	2615; 2820
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	4	2074; 2903; 3859; 5648
AatI	AGG!CCT	1	3653
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	3	1091; 1193; 1367
AccII	CG!CG	19	60; 1357; 1402; 1685; 1925; 2720; 2756; 3132; 3152; 3176; 3207; 3898; 4199; 4637; 4721; 4784; 4853; 5126; 5707
AccIII	T!CCGGA	1	1318
Acc16I	TGC!GCA	1	3934
Acc36I	ACCTGCNNNN!	2	4100; 4550
Acc36I	!NNNNNNNNGCAGGT	1	3719
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	11	465; 667; 727; 1445; 1454; 1595; 2242; 2298; 2985; 3831; 3866
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	3256; 4445
AccBSI	GAG!CGG	4	1953; 2097; 3092; 4499
AceIII	CAGCTCNNNNNNN!	2	2046; 2788
AceIII	!NNNNNNNNNNGAGCTG	4	552; 613; 1603; 2047
AciI	C!CGC	40	58; 86; 98; 112; 279; 507; 589; 926; 1064; 1166; 1206; 1355; 1683; 2103; 2205; 2451; 3147; 3150; 3164; 3254; 3502; 3514; 3523; 3535; 3545; 3556; 3602; 3741; 3804; 4306; 4351; 4417; 4443; 4568; 4571; 4719; 4851; 5158; 5302; 5798
AciI	G!CGG	33	370; 403; 528; 595; 761; 1073; 1115; 1402; 1925; 1953; 2097; 2240; 2363; 3092; 3119; 3207; 3317; 3898; 3962; 4063; 4066; 4346; 4401; 4499; 4637; 4784; 4924; 5167; 5412; 5533; 5552; 5679; 5707
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	11	2365; 2413; 2475; 2484; 3700; 4011; 4257; 4649; 5008; 5106; 5192
AclWI	!NNNNNGATCC	8	580; 1148; 1905; 2462; 4076; 4620; 5007; 5104
AcoI	Y!GGCCR	11	599; 1271; 1773; 1881; 1946; 2018; 2070; 3738; 3912; 4303; 4330
AcsI	R!AATTY	3	2646; 2750; 2761
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	4	1123; 1558; 3978; 4410
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	5208
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 1190; 1446; 3832; 4534; 4613
AdeI	CACNNN!GTG	4	1263; 1644; 1824; 2948
AfaI	GT!AC	16	219; 244; 299; 332; 383; 540; 658; 808; 1543; 1735; 1765; 1779; 2218; 2254; 2347; 4138
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	26	49; 724; 837; 854; 1003; 1069; 1212; 1442; 1808; 1869; 2142; 2844; 3170; 3562; 3813; 4357; 4638; 4670; 4802; 4837; 4887; 4919; 5272; 5551; 5717; 5735
AfII	C!TTAAG	0	
AfIII	A!CRYGT	2	2718; 5750
AgeI	A!CCGGT	0	
AgsI	TTS!AA	9	690; 1140; 1719; 2175; 3243; 3287; 3297; 3710; 5286
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	2196

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjnI	!CCWGG	27	88; 281; 788; 836; 932; 947; 1076; 1450; 1457; 1745; 1874; 1997; 2042; 2072; 2135; 2256; 2294; 2372; 3366; 3421; 3438; 4217; 4796; 4899; 5589; 5602; 5723
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	607
AlfI	GCANNNNNTGCGNNNNNNNNNN!	2	3406; 3478
AlfI	!NNNNNNNNNGCANNNNNTGC	2	3372; 3444
AloI	GAACNNNNNTCCNNNNNNNNNN!	2	1014; 2914
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	2	982; 2882
AluI	AG!CT	24	566; 627; 654; 800; 1107; 1311; 1336; 1617; 1934; 1983; 2036; 2054; 2061; 2611; 2778; 3035; 3330; 3618; 3938; 4396; 5193; 5450; 5496; 5586
AluBI	AG!CT	24	566; 627; 654; 800; 1107; 1311; 1336; 1617; 1934; 1983; 2036; 2054; 2061; 2611; 2778; 3035; 3330; 3618; 3938; 4396; 5193; 5450; 5496; 5586
AlwI	GGATCNNNN!	11	2365; 2413; 2475; 2484; 3700; 4011; 4257; 4649; 5008; 5106; 5192
AlwI	!NNNNNGATCC	8	580; 1148; 1905; 2462; 4076; 4620; 5007; 5104
Alw21I	GWGCW!C	7	697; 1048; 1556; 1640; 3945; 4135; 5440
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	6	1234; 1705; 3256; 3674; 4693; 4821
Alw44I	G!TGCAC	2	693; 5436
AlwNI	CAGNNN!CTG	2	4933; 5341
Ama87I	C!YCGRG	3	1331; 1418; 1630
Aor13HI	T!CCGGA	1	1318
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	0	
ApaBI	GCANNNN!TGC	4	1645; 3400; 3472; 4934
ApaLI	G!TGCAC	2	693; 5436
ApeKI	G!CWGC	22	812; 815; 956; 1254; 1617; 1647; 2026; 2061; 2105; 2608; 3127; 3792; 3893; 3935; 3976; 4069; 4456; 4909; 5135; 5341; 5344; 5409
ApoI	R!AATTY	3	2646; 2750; 2761
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4347
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4141; 4794; 5632
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	2	1801; 4231
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	2	788; 2411
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	2	1658; 3660
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	2	2018; 2311
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	2	1410; 4402
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNCCRAANNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	31	586; 978; 1128; 1154; 1328; 1701; 1911; 2286; 2316; 2322; 2358; 2406; 2468; 2477; 2490; 3670; 3674; 3693; 4004; 4082; 4163; 4172; 4250; 4626; 4642; 5001; 5013; 5091; 5099; 5110; 5185
AsiGI	A!CCGGT	0	
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	2	1810; 3950
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3654; 4669
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	24	1359; 1448; 1925; 2342; 3098; 3106; 3132; 3154; 3163; 3176; 3207; 3826; 3834; 3898; 3935; 4201; 4461; 4637; 4723; 5126; 5235; 5409; 5509; 5576

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AspS9I	G!GNCC	19	83; 276; 763; 1006; 1098; 1119; 1203; 1421; 1509; 1659; 1872; 1887; 2434; 2939; 4348; 4793; 4839; 4897; 4930
AssI	AGT!ACT	1	2347
AsuII	TT!CGAA	1	4514
AsuC2I	CC!SGG	8	1187; 1419; 1420; 1885; 3836; 3996; 4609; 5373
AsuHPI	GGTGANNNNNNNN!	5	376; 999; 1816; 4903; 5019
AsuHPI	!NNNNNNNTCACC	9	888; 1524; 1557; 1806; 1908; 1929; 2073; 2949; 4010
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	3	1331; 1418; 1630
AvaII	G!GWCC	5	1203; 1872; 1887; 4348; 4793
AviII	TGC!GCA	1	3934
AvrII	C!CTAGG	2	3654; 4669
AxyI	CC!TNAGG	4	872; 2111; 3312; 4944
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	8	670; 697; 730; 1307; 1829; 3778; 3871; 5440
BalI	TGG!CCA	4	601; 1273; 2020; 3914
BamHI	G!GATCC	1	2467
BanI	G!GYRCC	11	465; 667; 727; 1445; 1454; 1595; 2242; 2298; 2985; 3831; 3866
BanII	GRGCY!C	3	3023; 4197; 4907
BanIII	AT!CGAT	1	3672
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	2004
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	1972
BasI	CCANNN!NTGG	0	
BauI	C!ACGAG	3	1258; 4550; 5577
BauI	C!TCGTG	2	1108; 4424
BbeI	GGCG!C	2	1449; 3835
Bbr7I	GAAGACNNNNNN!	1	919
Bbr7I	!NNNNNNNNNNNGTCTTC	1	1414
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	914
BbsI	!NNNNNNNGTCTTC	1	1419
BbuI	GCATG!C	3	3402; 3474; 4237
BbvI	GCAGCNNNNNNNN!	8	824; 1266; 2620; 3905; 3947; 4468; 4921; 5421
BbvI	!NNNNNNNNNNNGCTGC	12	943; 1604; 1634; 2013; 2048; 2092; 3114; 3779; 3963; 4056; 5122; 5328
Bbv12I	GWGCW!C	7	697; 1048; 1556; 1640; 3945; 4135; 5440
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	12	1005; 1444; 1555; 1837; 1867; 2188; 2377; 2449; 2962; 3526; 4052; 4554
BccI	!NNNNNGATGG	6	1461; 1788; 2010; 2930; 3710; 4138
BceAI	ACGGCNNNNNNNNNN!	11	825; 969; 1020; 1086; 1389; 1572; 1961; 2039; 2085; 4258; 4745
BceAI	!NNNNNNNNNNNNNGCCGT	5	1408; 1760; 2973; 3791; 5250
Bcefl	ACGGCNNNNNNNNNN!	11	825; 969; 1020; 1086; 1389; 1572; 1961; 2039; 2085; 4258; 4745
Bcefl	!NNNNNNNNNNNNNGCCGT	5	1409; 1761; 2974; 3792; 5251
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	1859
BcgI	!NNNNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	1	1825
BciVI	GTATCCNNNNNN!	3	3261; 4051; 5552
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2489
BcnI	CC!SGG	8	1187; 1419; 1420; 1885; 3836; 3996; 4609; 5373
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNN!	4	1717; 1930; 2512; 5685
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	4	1683; 1896; 2478; 5651
BfaI	C!TAG	10	592; 1292; 2463; 2480; 2681; 3099; 3655; 4670; 5004; 5257
BfiI	ACTGGGNNNN!	4	1257; 1309; 1581; 3781

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BfiI	!NNNNCCCAGT	2	289; 3533
BfmI	C!TRYAG	4	1929; 3167; 5294; 5485
BfoI	RGCGC!Y	5	1449; 3099; 3107; 3835; 5510
BfrI	C!TTAAG	0	
BfuI	GATCCNNNNNN!	3	3261; 4051; 5552
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4100; 4550
BfuAI	!NNNNNNNGCAGGT	1	3719
BfuCI	!GATC	31	585; 977; 1127; 1153; 1327; 1700; 1910; 2285; 2315; 2321; 2357; 2405; 2467; 2476; 2489; 3669; 3673; 3692; 4003; 4081; 4162; 4171; 4249; 4625; 4641; 5000; 5012; 5090; 5098; 5109; 5184
BglI	GCCNNNN!NGGC	6	90; 212; 283; 1082; 1420; 3607
BglII	A!GATCT	1	1327
BisI	GC!NGC	43	762; 813; 816; 957; 1074; 1255; 1355; 1618; 1648; 1926; 2027; 2062; 2106; 2241; 2364; 2609; 3128; 3150; 3164; 3602; 3741; 3793; 3804; 3894; 3899; 3936; 3977; 4064; 4067; 4070; 4306; 4402; 4443; 4457; 4571; 4910; 4925; 5136; 5342; 5345; 5410; 5553; 5708
BlnI	C!CTAGG	2	3654; 4669
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	43	763; 814; 817; 958; 1075; 1256; 1356; 1619; 1649; 1927; 2028; 2063; 2107; 2242; 2365; 2610; 3129; 3151; 3165; 3603; 3742; 3794; 3805; 3895; 3900; 3937; 3978; 4065; 4068; 4071; 4307; 4403; 4444; 4458; 4572; 4911; 4926; 5137; 5343; 5346; 5411; 5554; 5709
BmcAI	AGT!ACT	1	2347
Bme18I	G!GWCC	5	1203; 1872; 1887; 4348; 4793
Bme1390I	CC!NGG	35	90; 283; 790; 838; 934; 949; 1078; 1187; 1419; 1420; 1452; 1459; 1747; 1876; 1885; 1999; 2044; 2074; 2137; 2258; 2296; 2374; 3368; 3423; 3440; 3836; 3996; 4219; 4609; 4798; 4901; 5373; 5591; 5604; 5725
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	3	1331; 1418; 1630
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	2196
BmgT120I	GG!NCC	19	84; 277; 764; 1007; 1099; 1120; 1204; 1422; 1510; 1660; 1873; 1888; 2435; 2940; 4349; 4794; 4840; 4898; 4931
BmiI	GGN!NCC	31	467; 669; 729; 1040; 1120; 1377; 1447; 1456; 1597; 1628; 1661; 1888; 2101; 2244; 2300; 2367; 2436; 2469; 2987; 3008; 3020; 3211; 3372; 3444; 3833; 3868; 4716; 4795; 4840; 5683; 5722
BmrI	ACTGGGNNNNN!	4	1257; 1309; 1581; 3781
BmrI	!NNNNCCCAGT	2	289; 3533
BmrFI	CC!NGG	35	90; 283; 790; 838; 934; 949; 1078; 1187; 1419; 1420; 1452; 1459; 1747; 1876; 1885; 1999; 2044; 2074; 2137; 2258; 2296; 2374; 3368; 3423; 3440; 3836; 3996; 4219; 4609; 4798; 4901; 5373; 5591; 5604; 5725
BmsI	GCATCNNNNN!	11	851; 1535; 1568; 1796; 2165; 2648; 3411; 3483; 4131; 4195; 4470
BmsI	!NNNNNNNNNGATGC	8	357; 1172; 1401; 2264; 3790; 4045; 4261; 5653
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	4	1257; 1309; 1581; 3781
BmuI	!NNNNCCCAGT	2	289; 3533
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	1	914
BpiI	!NNNNNNGTCTTC	1	1419
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	3	1546; 3621; 4520
BpI	!NNNNNNNNNGAGNNNNNCTC	3	1514; 3589; 4488
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	2065; 4672
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	931; 4615
Bpu10I	CC!TNAGC	1	2336
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	4514
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	914
BpuAI	!NNNNNNGTCTTC	1	1419

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	5126; 5665
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	3	1162; 4208; 5367
BpuMI	CC!SGG	8	1187; 1419; 1420; 1885; 3836; 3996; 4609; 5373
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	1234; 1705; 4821
Bsa29I	AT!CGAT	1	3672
BsaAI	YAC!GTR	3	340; 2948; 4136
BsaBI	GATNN!NNATC	4	2320; 2404; 2494; 3691
BsaHI	GR!CGYC	9	122; 175; 258; 444; 1190; 1446; 3832; 4534; 4613
BsaJI	C!CNNGG	33	360; 605; 701; 836; 837; 932; 1417; 1450; 1458; 1631; 1655; 1673; 1943; 1997; 2021; 2042; 2136; 2256; 2294; 3366; 3438; 3561; 3596; 3605; 3654; 3995; 4264; 4669; 4796; 4797; 4899; 4900; 5590
BsaMI	GAATGCN!	1	2583
BsaMI	G!CATTC	1	2676
BsaWI	W!CCGGW	7	1318; 1801; 2473; 3863; 4707; 5397; 5544
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	1390; 2912
BsaXI	!NNNNNNNGGAGNNNNNGT	1	1969
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	1999
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	1360; 2882
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	2	1745; 2249
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	2833; 4740
Bsc4I	CCNNNNN!NNGG	26	49; 724; 837; 854; 1003; 1069; 1212; 1442; 1808; 1869; 2142; 2844; 3170; 3562; 3813; 4357; 4638; 4670; 4802; 4837; 4887; 4919; 5272; 5551; 5717; 5735
BscAI	GCATCNNNN!	11	850; 1534; 1567; 1795; 2164; 2647; 3410; 3482; 4130; 4194; 4469
BscAI	!NNNNNGATGC	8	360; 1175; 1404; 2267; 3793; 4048; 4264; 5656
BseI	ACTGGN!	8	1217; 1252; 1304; 1576; 1788; 3776; 3977; 5223
BseI	C!CAGT	5	295; 2861; 3539; 5335; 5348
Bse8I	GATNN!NNATC	4	2320; 2404; 2494; 3691
Bse21I	CC!TNAGG	4	872; 2111; 3312; 4944
Bse118I	R!CCGGY	5	1393; 3049; 4151; 4332; 4615
BseAI	T!CCGGA	1	1318
BseBI	CC!WGG	27	90; 283; 790; 838; 934; 949; 1078; 1452; 1459; 1747; 1876; 1999; 2044; 2074; 2137; 2258; 2296; 2374; 3368; 3423; 3440; 4219; 4798; 4901; 5591; 5604; 5725
BseCI	AT!CGAT	1	3672
BseDI	C!CNNGG	33	360; 605; 701; 836; 837; 932; 1417; 1450; 1458; 1631; 1655; 1673; 1943; 1997; 2021; 2042; 2136; 2256; 2294; 3366; 3438; 3561; 3596; 3605; 3654; 3995; 4264; 4669; 4796; 4797; 4899; 4900; 5590
Bse3DI	GCAATGNN!	2	2097; 4065
Bse3DI	!CATTGC	2	2261; 2324
BseGI	GGATGNN!	6	1347; 2279; 3692; 4149; 4174; 4628
BseGI	!CATCC	10	697; 785; 842; 997; 1526; 1859; 2156; 2201; 2369; 3518
BseJI	GATNN!NNATC	4	2320; 2404; 2494; 3691
BseLI	CCNNNNN!NNGG	26	49; 724; 837; 854; 1003; 1069; 1212; 1442; 1808; 1869; 2142; 2844; 3170; 3562; 3813; 4357; 4638; 4670; 4802; 4837; 4887; 4919; 5272; 5551; 5717; 5735
BseMI	GCAATGNN!	2	2097; 4065
BseMI	!CATTGC	2	2261; 2324
BseMII	CTCAGNNNNNNNNNN!	2	1338; 4958
BseMII	!NNNNNNNNCTGAG	8	863; 2102; 2327; 3303; 3605; 4486; 5058; 5467
BseNI	ACTGGN!	8	1217; 1252; 1304; 1576; 1788; 3776; 3977; 5223
BseNI	C!CAGT	5	295; 2861; 3539; 5335; 5348
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1648; 3650
BseRI	!NNNNNNNNNCTCCTC	2	2028; 2321
BseSI	GKGC!C	8	670; 697; 730; 1307; 1829; 3778; 3871; 5440
BseXI	GCAGCNNNNNNNN!	8	824; 1266; 2620; 3905; 3947; 4468; 4921; 5421
BseXI	!NNNNNNNNNNNGCTGC	12	943; 1604; 1634; 2013; 2048; 2092; 3114; 3779; 3963; 4056; 5122; 5328
BseX3I	C!GGCCG	2	1946; 3738
BseYI	C!CCAGC	5	1725; 2302; 3375; 3447; 5446

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BseYI	G!CTGGG	2	1034; 4336
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	19	60; 1357; 1402; 1685; 1925; 2720; 2756; 3132; 3152; 3176; 3207; 3898; 4199; 4637; 4721; 4784; 4853; 5126; 5707
Bsh1285I	CGRY!CG	3	1949; 3741; 5416
BshFI	GG!CC	39	84; 277; 601; 764; 1007; 1076; 1099; 1121; 1231; 1273; 1393; 1423; 1510; 1660; 1678; 1775; 1883; 1948; 2020; 2072; 2377; 2435; 2798; 2940; 3595; 3601; 3610; 3653; 3740; 3914; 4305; 4332; 4841; 4898; 4931; 5276; 5710; 5728; 5739
BshNI	G!GYRCC	11	465; 667; 727; 1445; 1454; 1595; 2242; 2298; 2985; 3831; 3866
BshTI	A!CCGGT	0	
BshVI	AT!CGAT	1	3672
BsiEI	CGRY!CG	3	1949; 3741; 5416
BsiHKAI	GWGCW!C	7	697; 1048; 1556; 1640; 3945; 4135; 5440
BsiHKCI	C!YCGRG	3	1331; 1418; 1630
BsiSI	C!CGG	25	1187; 1319; 1379; 1394; 1419; 1802; 1884; 2432; 2474; 3050; 3737; 3814; 3836; 3864; 3995; 4085; 4152; 4333; 4608; 4616; 4708; 5182; 5372; 5398; 5545
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	26	49; 724; 837; 854; 1003; 1069; 1212; 1442; 1808; 1869; 2142; 2844; 3170; 3562; 3813; 4357; 4638; 4670; 4802; 4837; 4887; 4919; 5272; 5551; 5717; 5735
BsIFI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1588; 1900; 3983; 4515; 4624
BsIFI	!NNNNNNNNNNNNNNNGTCCC	4	3348; 3420; 3484; 4779
BsmI	GAATGCN!	1	2583
BsmI	G!CATTC	1	2676
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	6	1234; 1705; 3256; 3674; 4693; 4821
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1588; 1900; 3983; 4515; 4624
BsmFI	!NNNNNNNNNNNNNNNGTCCC	4	3348; 3420; 3484; 4779
BsnI	GG!CC	39	84; 277; 601; 764; 1007; 1076; 1099; 1121; 1231; 1273; 1393; 1423; 1510; 1660; 1678; 1775; 1883; 1948; 2020; 2072; 2377; 2435; 2798; 2940; 3595; 3601; 3610; 3653; 3740; 3914; 4305; 4332; 4841; 4898; 4931; 5276; 5710; 5728; 5739
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	1234; 1705; 4821
BsoBI	C!YCGRG	3	1331; 1418; 1630
Bsp13I	T!CCGGA	1	1318
Bsp19I	C!CATGG	4	360; 605; 3561; 4264
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4635
Bsp24I	!NNNNNNCCANNNNNGTC	3	1851; 5056; 5234
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	3	1883; 5088; 5266
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4603
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4514
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	31	585; 977; 1127; 1153; 1327; 1700; 1910; 2285; 2315; 2321; 2357; 2405; 2467; 2476; 2489; 3669; 3673; 3692; 4003; 4081; 4162; 4171; 4249; 4625; 4641; 5000; 5012; 5090; 5098; 5109; 5184
Bsp1286I	GDGCH!C	16	670; 697; 730; 1048; 1307; 1556; 1640; 1829; 3023; 3778; 3871; 3945; 4135; 4197; 4907; 5440
Bsp1407I	T!GTACA	1	656
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	40	58; 86; 98; 112; 279; 507; 589; 926; 1064; 1166; 1206; 1355; 1683; 2103; 2205; 2451; 3147; 3150; 3164; 3254; 3502; 3514; 3523; 3535; 3545; 3556; 3602; 3741; 3804; 4306; 4351; 4417; 4443; 4568; 4571; 4719; 4851; 5158; 5302; 5798
BspACI	G!CGG	33	370; 403; 528; 595; 761; 1073; 1115; 1402; 1925; 1953; 2097; 2240; 2363; 3092; 3119; 3207; 3317; 3898; 3962; 4063; 4066; 4346; 4401; 4499; 4637; 4784; 4924; 5167; 5412; 5533; 5552; 5679; 5707
BspCNI	CTCAGNNNNNNNN!	2	1337; 4957
BspCNI	!NNNNNNCTGAG	8	864; 2103; 2328; 3304; 3606; 4487; 5059; 5468

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspDI	AT!CGAT	1	3672
BspD6I	GACTCNNNN!	6	418; 1330; 1806; 2905; 4511; 5388
BspD6I	!NNNNNNGAGTC	5	886; 2139; 2421; 2868; 3300
BspEI	T!CCGGA	1	1318
BspFNI	CG!CG	19	60; 1357; 1402; 1685; 1925; 2720; 2756; 3132; 3152; 3176; 3207; 3898; 4199; 4637; 4721; 4784; 4853; 5126; 5707
BspHI	T!CATGA	4	1904; 2183; 3258; 5030
BspLI	GGN!NCC	31	467; 669; 729; 1040; 1120; 1377; 1447; 1456; 1597; 1628; 1661; 1888; 2101; 2244; 2300; 2367; 2436; 2469; 2987; 3008; 3020; 3211; 3372; 3444; 3833; 3868; 4716; 4795; 4840; 5683; 5722
BspMI	ACCTGCNNNN!	2	4100; 4550
BspMI	!NNNNNNNNGCAGGT	1	3719
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	11	2365; 2413; 2475; 2484; 3700; 4011; 4257; 4649; 5008; 5106; 5192
BspPI	!NNNNNGATCC	8	580; 1148; 1905; 2462; 4076; 4620; 5007; 5104
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	4	617; 2044; 4176; 4386
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4514
BspT107I	G!GYRCC	11	465; 667; 727; 1445; 1454; 1595; 2242; 2298; 2985; 3831; 3866
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	1234; 1705; 4821
BsrI	ACTGGN!	8	1217; 1252; 1304; 1576; 1788; 3776; 3977; 5223
BsrI	C!CAGT	5	295; 2861; 3539; 5335; 5348
BsrBI	CCG!CTC	2	3256; 4445
BsrBI	GAG!CGG	4	1953; 2097; 3092; 4499
BsrDI	GCAATGNN!	2	2097; 4065
BsrDI	!CATTGC	2	2261; 2324
BsrFI	R!CCGGY	5	1393; 3049; 4151; 4332; 4615
BsrGI	T!GTACA	1	656
BsrSI	ACTGGN!	8	1217; 1252; 1304; 1576; 1788; 3776; 3977; 5223
BsrSI	C!CAGT	5	295; 2861; 3539; 5335; 5348
BssAI	R!CCGGY	5	1393; 3049; 4151; 4332; 4615
BssECI	C!CNNGG	33	360; 605; 701; 836; 837; 932; 1417; 1450; 1458; 1631; 1655; 1673; 1943; 1997; 2021; 2042; 2136; 2256; 2294; 3366; 3438; 3561; 3596; 3605; 3654; 3995; 4264; 4669; 4796; 4797; 4899; 4900; 5590
BssHII	G!CGCGC	0	
BssKI	!CCNGG	35	88; 281; 788; 836; 932; 947; 1076; 1185; 1417; 1418; 1450; 1457; 1745; 1874; 1883; 1997; 2042; 2072; 2135; 2256; 2294; 2372; 3366; 3421; 3438; 3834; 3994; 4217; 4607; 4796; 4899; 5371; 5589; 5602; 5723
BssMI	!GATC	31	585; 977; 1127; 1153; 1327; 1700; 1910; 2285; 2315; 2321; 2357; 2405; 2467; 2476; 2489; 3669; 3673; 3692; 4003; 4081; 4162; 4171; 4249; 4625; 4641; 5000; 5012; 5090; 5098; 5109; 5184
BssNI	GR!CGYC	9	122; 175; 258; 444; 1190; 1446; 3832; 4534; 4613
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1258; 4550; 5577
BssSI	C!TCGTG	2	1108; 4424
BssT1I	C!CWWGG	7	360; 605; 1673; 3561; 3654; 4264; 4669
Bst6I	CTCTCN!	1	2125
Bst6I	!NNNNGAAGAG	5	617; 2044; 3299; 4176; 4386
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 1190; 1446; 3832; 4534; 4613
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	4	1644; 3399; 3471; 4933
BstAUI	T!GTACA	1	656
BstBI	TT!CGAA	1	4514
Bst2BI	C!ACGAG	3	1258; 4550; 5577
Bst2BI	C!TCGTG	2	1108; 4424
BstBAI	YAC!GTR	3	340; 2948; 4136
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 672; 1824; 2229; 2923; 4212; 4328; 4436; 4759; 5250; 5720; 5791

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstC8I	GCN!NGC	33	86; 279; 593; 715; 919; 1395; 1404; 1881; 2413; 3051; 3094; 3108; 3381; 3400; 3453; 3472; 3726; 3912; 4131; 4197; 4203; 4235; 4276; 4280; 4334; 4617; 4804; 4851; 4907; 4929; 5140; 5700; 5737
BstDEI	C!TNAG	12	614; 872; 1169; 1324; 2111; 2336; 3312; 3614; 4495; 4944; 5067; 5476
BstDSI	C!CRYGG	6	360; 605; 1943; 2021; 3561; 4264
BstEII	G!GTNACC	1	1812
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	6	1347; 2279; 3692; 4149; 4174; 4628
BstF5I	!CATCC	10	697; 785; 842; 997; 1526; 1859; 2156; 2201; 2369; 3518
BstFNI	CG!CG	19	60; 1357; 1402; 1685; 1925; 2720; 2756; 3132; 3152; 3176; 3207; 3898; 4199; 4637; 4721; 4784; 4853; 5126; 5707
BstH2I	RGCGC!Y	5	1449; 3099; 3107; 3835; 5510
BstHHI	GCG!C	24	1359; 1448; 1925; 2342; 3098; 3106; 3132; 3154; 3163; 3176; 3207; 3826; 3834; 3898; 3935; 4201; 4461; 4637; 4723; 5126; 5235; 5409; 5509; 5576
BstKTI	GAT!C	31	588; 980; 1130; 1156; 1330; 1703; 1913; 2288; 2318; 2324; 2360; 2408; 2470; 2479; 2492; 3672; 3676; 3695; 4006; 4084; 4165; 4174; 4252; 4628; 4644; 5003; 5015; 5093; 5101; 5112; 5187
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	6	1234; 1705; 3256; 3674; 4693; 4821
BstMBI	!GATC	31	585; 977; 1127; 1153; 1327; 1700; 1910; 2285; 2315; 2321; 2357; 2405; 2467; 2476; 2489; 3669; 3673; 3692; 4003; 4081; 4162; 4171; 4249; 4625; 4641; 5000; 5012; 5090; 5098; 5109; 5184
BstMCI	CGRY!CG	3	1949; 3741; 5416
BstMWI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 651; 1082; 1394; 1420; 1452; 1523; 1644; 1747; 1931; 2026; 3059; 3089; 3116; 3158; 3399; 3471; 3522; 3601; 3823; 3907; 3930; 4069; 4192; 4275; 4542; 4729; 4933; 5132; 5704
BstNI	CC!WGG	27	90; 283; 790; 838; 934; 949; 1078; 1452; 1459; 1747; 1876; 1999; 2044; 2074; 2137; 2258; 2296; 2374; 3368; 3423; 3440; 4219; 4798; 4901; 5591; 5604; 5725
BstNSI	RCATG!Y	6	645; 1386; 3402; 3474; 4237; 5754
BstOI	CC!WGG	27	90; 283; 790; 838; 934; 949; 1078; 1452; 1459; 1747; 1876; 1999; 2044; 2074; 2137; 2258; 2296; 2374; 3368; 3423; 3440; 4219; 4798; 4901; 5591; 5604; 5725
BstPI	G!GTNACC	1	1812
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	35	88; 281; 788; 836; 932; 947; 1076; 1185; 1417; 1418; 1450; 1457; 1745; 1874; 1883; 1997; 2042; 2072; 2135; 2256; 2294; 2372; 3366; 3421; 3438; 3834; 3994; 4217; 4607; 4796; 4899; 5371; 5589; 5602; 5723
BstSFI	C!TRYAG	4	1929; 3167; 5294; 5485
BstSLI	GKGCML!C	8	670; 697; 730; 1307; 1829; 3778; 3871; 5440
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 1357; 1402; 1685; 1925; 2720; 2756; 3132; 3152; 3176; 3207; 3898; 4199; 4637; 4721; 4784; 4853; 5126; 5707
Bst2UI	CC!WGG	27	90; 283; 790; 838; 934; 949; 1078; 1452; 1459; 1747; 1876; 1999; 2044; 2074; 2137; 2258; 2296; 2374; 3368; 3423; 3440; 4219; 4798; 4901; 5591; 5604; 5725
BstV1I	GCAGCNNNNNNN!	8	824; 1266; 2620; 3905; 3947; 4468; 4921; 5421
BstV1I	!NNNNNNNNNNNGCTGC	12	943; 1604; 1634; 2013; 2048; 2092; 3114; 3779; 3963; 4056; 5122; 5328
BstV2I	GAAGACNN!	1	914
BstV2I	!NNNNNNGTCTTC	1	1419
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 1153; 1327; 1910; 2467; 2476; 4003; 4249; 4641; 5000; 5012; 5098; 5109
BstYI	R!GATCY	13	585; 1153; 1327; 1910; 2467; 2476; 4003; 4249; 4641; 5000; 5012; 5098; 5109
BstZI	C!GGCCG	2	1946; 3738
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3261; 4051; 5552
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3672

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bsu36I	CC!TNAGG	4	872; 2111; 3312; 4944
BsuRI	GG!CC	39	84; 277; 601; 764; 1007; 1076; 1099; 1121; 1231; 1273; 1393; 1423; 1510; 1660; 1678; 1775; 1883; 1948; 2020; 2072; 2377; 2435; 2798; 2940; 3595; 3601; 3610; 3653; 3740; 3914; 4305; 4332; 4841; 4898; 4931; 5276; 5710; 5728; 5739
BsuTUI	AT!CGAT	1	3672
BtgI	C!CRYGG	6	360; 605; 1943; 2021; 3561; 4264
BtgZI	GCGATGNNNNNNNNNN!	2	2949; 4284
BtgZI	!NNNNNNNNNNNNNNNCATCGC	3	334; 4103; 4447
BthCI	GCNG!C	43	764; 815; 818; 959; 1076; 1257; 1357; 1620; 1650; 1928; 2029; 2064; 2108; 2243; 2366; 2611; 3130; 3152; 3166; 3604; 3743; 3795; 3806; 3896; 3901; 3938; 3979; 4066; 4069; 4072; 4308; 4404; 4445; 4459; 4573; 4912; 4927; 5138; 5344; 5347; 5412; 5555; 5710
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	2196
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	2288; 2671
BtsCI	GGATGNN!	6	1347; 2279; 3692; 4149; 4174; 4628
BtsCI	!CATCC	10	697; 785; 842; 997; 1526; 1859; 2156; 2201; 2369; 3518
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4100; 4550
BveI	!NNNNNNNNNGCAGGT	1	3719
Cac8I	GCN!NGC	33	86; 279; 593; 715; 919; 1395; 1404; 1881; 2413; 3051; 3094; 3108; 3381; 3400; 3453; 3472; 3726; 3912; 4131; 4197; 4203; 4235; 4276; 4280; 4334; 4617; 4804; 4851; 4907; 4929; 5140; 5700; 5737
CaiI	CAGNNN!CTG	2	4933; 5341
CciI	T!CATGA	4	1904; 2183; 3258; 5030
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	10	352; 1440; 1551; 1563; 1791; 2445; 4121; 4126; 4324; 4465
CdiI	C!GATG	3	1410; 2935; 4270
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5704
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3493; 3535
CelII	GC!TNAGC	0	
CfoI	GCG!C	24	1359; 1448; 1925; 2342; 3098; 3106; 3132; 3154; 3163; 3176; 3207; 3826; 3834; 3898; 3935; 4201; 4461; 4637; 4723; 5126; 5235; 5409; 5509; 5576
CfrI	Y!GGCCR	11	599; 1271; 1773; 1881; 1946; 2018; 2070; 3738; 3912; 4303; 4330
Cfr9I	C!CCGGG	1	1418
Cfr10I	R!CCGGY	5	1393; 3049; 4151; 4332; 4615
Cfr13I	G!GNCC	19	83; 276; 763; 1006; 1098; 1119; 1203; 1421; 1509; 1659; 1872; 1887; 2434; 2939; 4348; 4793; 4839; 4897; 4930
Cfr42I	CCGC!GG	0	
ChaI	GATC!	31	589; 981; 1131; 1157; 1331; 1704; 1914; 2289; 2319; 2325; 2361; 2409; 2471; 2480; 2493; 3673; 3677; 3696; 4007; 4085; 4166; 4175; 4253; 4629; 4645; 5004; 5016; 5094; 5102; 5113; 5188
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	8	709; 1723; 1884; 2419; 3649; 5089; 5189; 5267
CjeI	!NNNNNNNNNACNNNNNNNTGG	8	64; 257; 2338; 3316; 3411; 4603; 5153; 5708
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	8	98; 291; 2372; 3350; 3445; 4637; 5187; 5742
CjeI	!NNNNNNNNCCANNNNNNGT	8	675; 1689; 1850; 2385; 3615; 5055; 5155; 5233
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	3	1884; 5089; 5267
CjePI	!NNNNNNNNGANNNNNNNTGG	6	257; 734; 1231; 1576; 4603; 5202
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	6	290; 767; 1264; 1609; 4636; 5235
CjePI	!NNNNNNNNCCANNNNNNNNTC	3	1851; 5056; 5234
Clal	AT!CGAT	1	3672
CpoI	CG!GWCCG	1	4348
CseI	GACGCNNNNN!	3	526; 4542; 4621
CseI	!NNNNNNNNNNNGCGTC	5	1179; 1855; 3165; 5060; 5638
CsiI	A!CCWGGT	1	3421
CspI	CG!GWCCG	1	4348
Csp6I	G!TAC	16	218; 243; 298; 331; 382; 539; 657; 807; 1542; 1734; 1764; 1778; 2217; 2253; 2346; 4137
Csp45I	TT!CGAA	1	4514
CspAI	A!CCGGT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	6	659; 1250; 2000; 2306; 3112; 4721
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	33	301; 361; 606; 642; 648; 660; 738; 804; 884; 1095; 1383; 1476; 1581; 1704; 1731; 1855; 1905; 2142; 2184; 2250; 3259; 3399; 3471; 3562; 3703; 4048; 4234; 4265; 4291; 4647; 5031; 5751; 5802
CviJI	RG!CY	120	42; 84; 93; 277; 566; 601; 627; 654; 717; 764; 793; 800; 878; 944; 956; 1007; 1034; 1076; 1099; 1107; 1121; 1231; 1267; 1273; 1311; 1336; 1376; 1393; 1397; 1423; 1510; 1617; 1627; 1660; 1678; 1729; 1750; 1775; 1879; 1883; 1928; 1934; 1948; 1983; 2020; 2026; 2036; 2054; 2061; 2072; 2127; 2366; 2377; 2435; 2501; 2611; 2778; 2798; 2940; 3021; 3035; 3049; 3330; 3371; 3443; 3566; 3595; 3601; 3610; 3618; 3641; 3653; 3659; 3740; 3757; 3765; 3792; 3817; 3901; 3910; 3914; 3938; 3976; 4052; 4069; 4088; 4151; 4195; 4205; 4222; 4305; 4332; 4336; 4373; 4396; 4412; 4592; 4619; 4680; 4802; 4841; 4898; 4905; 4912; 4931; 4942; 5193; 5222; 5265; 5276; 5341; 5420; 5445; 5450; 5496; 5586; 5684; 5710; 5728; 5739
CviKI-1	RG!CY	120	42; 84; 93; 277; 566; 601; 627; 654; 717; 764; 793; 800; 878; 944; 956; 1007; 1034; 1076; 1099; 1107; 1121; 1231; 1267; 1273; 1311; 1336; 1376; 1393; 1397; 1423; 1510; 1617; 1627; 1660; 1678; 1729; 1750; 1775; 1879; 1883; 1928; 1934; 1948; 1983; 2020; 2026; 2036; 2054; 2061; 2072; 2127; 2366; 2377; 2435; 2501; 2611; 2778; 2798; 2940; 3021; 3035; 3049; 3330; 3371; 3443; 3566; 3595; 3601; 3610; 3618; 3641; 3653; 3659; 3740; 3757; 3765; 3792; 3817; 3901; 3910; 3914; 3938; 3976; 4052; 4069; 4088; 4151; 4195; 4205; 4222; 4305; 4332; 4336; 4373; 4396; 4412; 4592; 4619; 4680; 4802; 4841; 4898; 4905; 4912; 4931; 4942; 5193; 5222; 5265; 5276; 5341; 5420; 5445; 5450; 5496; 5586; 5684; 5710; 5728; 5739
CviQI	G!TAC	16	218; 243; 298; 331; 382; 539; 657; 807; 1542; 1734; 1764; 1778; 2217; 2253; 2346; 4137
DdeI	C!TNAG	12	614; 872; 1169; 1324; 2111; 2336; 3312; 3614; 4495; 4944; 5067; 5476
DinI	GGC!GCC	2	1447; 3833
DpnI	GA!TC	31	587; 979; 1129; 1155; 1329; 1702; 1912; 2287; 2317; 2323; 2359; 2407; 2469; 2478; 2491; 3671; 3675; 3694; 4005; 4083; 4164; 4173; 4251; 4627; 4643; 5002; 5014; 5092; 5100; 5111; 5186
DpnII	!GATC	31	585; 977; 1127; 1153; 1327; 1700; 1910; 2285; 2315; 2321; 2357; 2405; 2467; 2476; 2489; 3669; 3673; 3692; 4003; 4081; 4162; 4171; 4249; 4625; 4641; 5000; 5012; 5090; 5098; 5109; 5184
DraI	TTT!AAA	3	2534; 4976; 4995
DraII	RG!GNCCY	3	1659; 1887; 4930
DraIII	CACNNN!GTG	4	1263; 1644; 1824; 2948
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 2369; 5312
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	4	2074; 2903; 3859; 5648
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	2074; 2903; 3859; 5648
EaeI	Y!GGCCR	11	599; 1271; 1773; 1881; 1946; 2018; 2070; 3738; 3912; 4303; 4330
EagI	C!GGCCG	2	1946; 3738
Eam1104I	CTCTCN!	1	2125
Eam1104I	!NNNNGAAGAG	5	617; 2044; 3299; 4176; 4386
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	1	2125
EarI	!NNNNGAAGAG	5	617; 2044; 3299; 4176; 4386
EciI	GGCGANNNNNNNNNNNN!	4	3332; 4361; 5548; 5694
EciI	!NNNNNNNNNTCCGCC	4	496; 3503; 3524; 3545
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	2	1946; 3738

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco24I	GRGCY!C	3	3023; 4197; 4907
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	3	1234; 1705; 4821
Eco32I	GAT!ATC	1	1350
Eco47I	G!GWCC	5	1203; 1872; 1887; 4348; 4793
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	2	1946; 3738
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	1123; 1558; 3978; 4410
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	5208
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	4	872; 2111; 3312; 4944
Eco88I	C!YCGRG	3	1331; 1418; 1630
Eco91I	G!GTNACC	1	1812
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	7	360; 605; 1673; 3561; 3654; 4264; 4669
Eco147I	AGG!CCT	1	3653
EcoHI	!CCSGG	8	1185; 1417; 1418; 1883; 3834; 3994; 4607; 5371
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	6	1123; 1558; 2065; 3978; 4410; 4672
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	931; 4615; 5208
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	1	1812
Eco0109I	RG!GNCCY	3	1659; 1887; 4930
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	27	88; 281; 788; 836; 932; 947; 1076; 1450; 1457; 1745; 1874; 1997; 2042; 2072; 2135; 2256; 2294; 2372; 3366; 3421; 3438; 4217; 4796; 4899; 5589; 5602; 5723
EcoRV	GAT!ATC	1	1350
EcoT14I	C!CWWGG	7	360; 605; 1673; 3561; 3654; 4264; 4669
EcoT22I	ATGCA!T	3	3404; 3476; 5807
EcoT38I	GRGCY!C	3	3023; 4197; 4907
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	2	1447; 3833
EheI	GGC!GCC	2	1447; 3833
ErhI	C!CWWGG	7	360; 605; 1673; 3561; 3654; 4264; 4669
EsaBC3I	TC!GA	18	756; 783; 1092; 1333; 1368; 1551; 2007; 2982; 3673; 3946; 4102; 4126; 4162; 4324; 4515; 4560; 4815; 5653
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	33	304; 364; 609; 645; 651; 663; 741; 807; 887; 1098; 1386; 1479; 1584; 1707; 1734; 1858; 1908; 2145; 2187; 2253; 3262; 3402; 3474; 3565; 3706; 4051; 4237; 4268; 4294; 4650; 5034; 5754; 5805
FaiI	YA!TR	76	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 607; 643; 649; 661; 739; 805; 885; 903; 1096; 1149; 1199; 1339; 1384; 1477; 1496; 1582; 1705; 1732; 1844; 1856; 1906; 2143; 2185; 2251; 2423; 2494; 2504; 2570; 2615; 2820; 3248; 3260; 3391; 3400; 3463; 3472; 3496; 3563; 3587; 3704; 3768; 4049; 4074; 4235; 4266; 4292; 4364; 4580; 4648; 4726; 4778; 4939; 4956; 4958; 4960; 5032; 5310; 5499; 5615; 5688; 5752; 5803
FaiI	AAGNNNNNCTNNNNNNNNNNNN!	3	882; 1413; 4172
FaiI	!NNNNNNNNAAGNNNNNCTT	3	850; 1381; 4140
FaqI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1588; 1900; 3983; 4515; 4624
FaqI	!NNNNNNNNNNNNNGTCCC	4	3348; 3420; 3484; 4779
FatI	!CATG	33	300; 360; 605; 641; 647; 659; 737; 803; 883; 1094; 1382; 1475; 1580; 1703; 1730; 1854; 1904; 2141; 2183; 2249; 3258; 3398; 3470; 3561; 3702; 4047; 4233; 4264; 4290; 4646; 5030; 5750; 5801
FauI	CCCGCNNNN!	10	93; 119; 286; 1071; 1173; 3154; 3509; 3530; 4726; 4858
FauI	!NNNNNGCGGG	8	1108; 1395; 1946; 3085; 3955; 4492; 4630; 4777
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2489
FblI	GT!MKAC	3	1091; 1193; 1367
FmuI	GGNC!C	19	86; 279; 766; 1009; 1101; 1122; 1206; 1424; 1512; 1662; 1875; 1890; 2437; 2942; 4351; 4796; 4842; 4900; 4933

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	43	762; 813; 816; 957; 1074; 1255; 1355; 1618; 1648; 1926; 2027; 2062; 2106; 2241; 2364; 2609; 3128; 3150; 3164; 3602; 3741; 3793; 3804; 3894; 3899; 3936; 3977; 4064; 4067; 4070; 4306; 4402; 4443; 4457; 4571; 4910; 4925; 5136; 5342; 5345; 5410; 5553; 5708
FokI	GGATGNNNNNNNNNN!	6	1354; 2286; 3699; 4156; 4181; 4635
FokI	!NNNNNNNNNNNNNNCATCC	10	684; 772; 829; 984; 1513; 1846; 2143; 2188; 2356; 3505
FriOI	GRGCY!C	3	3023; 4197; 4907
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3934
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	10	592; 1292; 2463; 2480; 2681; 3099; 3655; 4670; 5004; 5257
FspEI	CCNNNNNNNNNNNN!	205	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 615; 684; 714; 731; 745; 778; 792; 810; 834; 849; 879; 912; 939; 954; 973; 1009; 1055; 1076; 1090; 1113; 1135; 1158; 1178; 1199; 1219; 1245; 1287; 1303; 1332; 1368; 1392; 1407; 1428; 1444; 1462; 1506; 1524; 1543; 1558; 1581; 1612; 1643; 1668; 1684; 1710; 1728; 1743; 1759; 1773; 1789; 1815; 1830; 1860; 1876; 1897; 1915; 1932; 1953; 2010; 2034; 2052; 2078; 2097; 2116; 2137; 2163; 2184; 2218; 2235; 2259; 2280; 2307; 2345; 2364; 2382; 2400; 2445; 2461; 2484; 2515; 2554; 2568; 2709; 2804; 2828; 2851; 2874; 2892; 2914; 2935; 2954; 2973; 3002; 3023; 3037; 3063; 3151; 3177; 3226; 3267; 3285; 3324; 3340; 3378; 3435; 3450; 3507; 3527; 3541; 3558; 3572; 3609; 3624; 3667; 3750; 3817; 3848; 3868; 3883; 3928; 3942; 4008; 4022; 4041; 4057; 4098; 4118; 4165; 4215; 4231; 4251; 4276; 4296; 4319; 4346; 4364; 4390; 4430; 4456; 4480; 4536; 4550; 4578; 4621; 4642; 4677; 4721; 4809; 4833; 4855; 4875; 4891; 4912; 4926; 4945; 5029; 5049; 5077; 5092; 5126; 5168; 5195; 5210; 5255; 5279; 5293; 5315; 5341; 5361; 5385; 5411; 5459; 5478; 5497; 5523; 5558; 5603; 5633; 5647; 5698; 5712; 5737; 5753; 5774; 5803
FspEI	!NNNNNNNNNNNNNNNGG	166	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 580; 601; 619; 646; 688; 709; 733; 775; 794; 823; 859; 896; 919; 938; 968; 989; 1016; 1055; 1081; 1100; 1172; 1198; 1233; 1255; 1285; 1304; 1324; 1358; 1379; 1404; 1426; 1444; 1462; 1483; 1508; 1541; 1567; 1609; 1642; 1660; 1732; 1757; 1780; 1822; 1855; 1910; 1930; 1960; 1984; 2002; 2029; 2054; 2072; 2098; 2122; 2182; 2222; 2243; 2266; 2340; 2359; 2388; 2417; 2449; 2503; 2603; 2672; 2780; 2829; 2851; 2879; 2915; 2960; 2989; 3025; 3044; 3072; 3092; 3155; 3178; 3286; 3318; 3336; 3365; 3408; 3437; 3548; 3577; 3620; 3641; 3669; 3702; 3722; 3747; 3774; 3799; 3821; 3849; 3875; 3896; 3947; 3968; 3986; 4034; 4070; 4126; 4151; 4175; 4204; 4227; 4251; 4277; 4299; 4318; 4343; 4383; 4419; 4484; 4569; 4593; 4622; 4656; 4677; 4697; 4742; 4769; 4788; 4821; 4873; 4904; 4931; 4983; 5081; 5152; 5197; 5258; 5323; 5357; 5383; 5401; 5437; 5507; 5530; 5552; 5576; 5609; 5657; 5692; 5710; 5767
Fsp4HI	GC!NGC	43	762; 813; 816; 957; 1074; 1255; 1355; 1618; 1648; 1926; 2027; 2062; 2106; 2241; 2364; 2609; 3128; 3150; 3164; 3602; 3741; 3793; 3804; 3894; 3899; 3936; 3977; 4064; 4067; 4070; 4306; 4402; 4443; 4457; 4571; 4910; 4925; 5136; 5342; 5345; 5410; 5553; 5708
GdiII	C!GGCCR	3	1946; 2070; 3738
GdiII	Y!GGCCG	6	1773; 1881; 1946; 3738; 4303; 4330
GlaI	GC!GC	24	1358; 1447; 1924; 2341; 3097; 3105; 3131; 3153; 3162; 3175; 3206; 3825; 3833; 3897; 3934; 4200; 4460; 4636; 4722; 5125; 5234; 5408; 5508; 5575
GluI	GC!NGC	43	762; 813; 816; 957; 1074; 1255; 1355; 1618; 1648; 1926; 2027; 2062; 2106; 2241; 2364; 2609; 3128; 3150; 3164; 3602; 3741; 3793; 3804; 3894; 3899; 3936; 3977; 4064; 4067; 4070; 4306; 4402; 4443; 4457; 4571; 4910; 4925; 5136; 5342; 5345; 5410; 5553; 5708
GsaI	CCCAG!C	5	1729; 2306; 3379; 3451; 5450
GsaI	GCTGG!G	2	1038; 4340
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	2	2065; 4672
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	931; 4615
HaeI	WGG!CCW	10	601; 1273; 1678; 2020; 2377; 3653; 3914; 5276; 5728; 5739
HaeII	RGCG!Y	5	1449; 3099; 3107; 3835; 5510

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIII	GG!CC	39	84; 277; 601; 764; 1007; 1076; 1099; 1121; 1231; 1273; 1393; 1423; 1510; 1660; 1678; 1775; 1883; 1948; 2020; 2072; 2377; 2435; 2798; 2940; 3595; 3601; 3610; 3653; 3740; 3914; 4305; 4332; 4841; 4898; 4931; 5276; 5710; 5728; 5739
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	3	1235; 2507; 4028
HaeIV	!NNNNNNNNNGAYNNNNNRTC	3	1201; 2473; 3994
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	3	1234; 2506; 4027
HaeIV	!NNNNNNNNNGAYNNNNNRTC	3	1203; 2475; 3996
HapII	C!CGG	25	1187; 1319; 1379; 1394; 1419; 1802; 1884; 2432; 2474; 3050; 3737; 3814; 3836; 3864; 3995; 4085; 4152; 4333; 4608; 4616; 4708; 5182; 5372; 5398; 5545
HgaI	GACGCNNNNN!	3	526; 4542; 4621
HgaI	!NNNNNNNNNGCGTC	5	1179; 1855; 3165; 5060; 5638
HhaI	GCG!C	24	1359; 1448; 1925; 2342; 3098; 3106; 3132; 3154; 3163; 3176; 3207; 3826; 3834; 3898; 3935; 4201; 4461; 4637; 4723; 5126; 5235; 5409; 5509; 5576
HinI	GR!CGYC	9	122; 175; 258; 444; 1190; 1446; 3832; 4534; 4613
Hin1II	CATG!	33	304; 364; 609; 645; 651; 663; 741; 807; 887; 1098; 1386; 1479; 1584; 1707; 1734; 1858; 1908; 2145; 2187; 2253; 3262; 3402; 3474; 3565; 3706; 4051; 4237; 4268; 4294; 4650; 5034; 5754; 5805
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	5	1234; 1392; 2345; 2506; 4027
Hin4I	!NNNNNNNNGABNNNNNRTC	4	1202; 2474; 3995; 4025
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	4	1234; 2506; 4027; 4057
Hin4I	!NNNNNNNNGAYNNNNNVTC	5	1202; 1360; 2313; 2474; 3995
Hin6I	G!CGC	24	1357; 1446; 1923; 2340; 3096; 3104; 3130; 3152; 3161; 3174; 3205; 3824; 3832; 3896; 3933; 4199; 4459; 4635; 4721; 5124; 5233; 5407; 5507; 5574
HinP1I	G!CGC	24	1357; 1446; 1923; 2340; 3096; 3104; 3130; 3152; 3161; 3174; 3205; 3824; 3832; 3896; 3933; 4199; 4459; 4635; 4721; 5124; 5233; 5407; 5507; 5574
HincII	GTY!RAC	3	1092; 1368; 2595
HindII	GTY!RAC	3	1092; 1368; 2595
HindIII	A!AGCTT	1	1309
HinfI	G!ANTC	18	410; 743; 893; 1322; 1489; 1798; 2146; 2428; 2875; 2897; 3307; 4317; 4451; 4503; 4561; 4598; 5380; 5776
HpaI	GTT!AAC	1	2595
HpaII	C!CGG	25	1187; 1319; 1379; 1394; 1419; 1802; 1884; 2432; 2474; 3050; 3737; 3814; 3836; 3864; 3995; 4085; 4152; 4333; 4608; 4616; 4708; 5182; 5372; 5398; 5545
HphI	GGTGANNNNNNNN!	5	376; 999; 1816; 4903; 5019
HphI	!NNNNNNNTCACC	9	888; 1524; 1557; 1806; 1908; 1929; 2073; 2949; 4010
Hpy8I	GTN!NAC	18	201; 539; 577; 675; 695; 990; 1092; 1194; 1203; 1368; 2199; 2387; 2448; 2595; 2879; 2896; 2951; 5438
Hpy99I	CGWCG!	12	1366; 1369; 1411; 1507; 1996; 3922; 3950; 4244; 4259; 4536; 4921; 5654
Hpy166II	GTN!NAC	18	201; 539; 577; 675; 695; 990; 1092; 1194; 1203; 1368; 2199; 2387; 2448; 2595; 2879; 2896; 2951; 5438
Hpy188I	TCN!GA	16	585; 702; 982; 1284; 1327; 1484; 3006; 3615; 3799; 4143; 4496; 4597; 5076; 5210; 5563; 5641
Hpy188III	TC!NNGA	33	855; 975; 1140; 1179; 1319; 1331; 1630; 1791; 1870; 1905; 2184; 2319; 2335; 2480; 3259; 3311; 3624; 3677; 3850; 4166; 4175; 4258; 4314; 4358; 4448; 4481; 4550; 5031; 5105; 5188; 5286; 5384; 5518
HpyAV	CCTTCNNNNNN!	11	783; 831; 876; 1614; 1725; 2138; 2181; 2400; 4477; 4584; 5263
HpyAV	!NNNNNGAAGG	11	703; 1075; 1479; 2274; 3065; 3960; 4689; 4705; 4888; 5205; 5515
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 672; 1824; 2229; 2923; 4212; 4328; 4436; 4759; 5250; 5720; 5791
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 971; 1736; 1991; 2195; 2892; 2904; 2947; 3057; 3948; 4135; 4916; 5049
HpyCH4V	TG!CA	21	645; 695; 1133; 1388; 2277; 2581; 2608; 2676; 3393; 3402; 3465; 3474; 3589; 3665; 3724; 3883; 4058; 4072; 5142; 5438; 5805
HpyF3I	C!TNAG	12	614; 872; 1169; 1324; 2111; 2336; 3312; 3614; 4495; 4944; 5067; 5476

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; 651; 1082; 1394; 1420; 1452; 1523; 1644; 1747; 1931; 2026; 3059; 3089; 3116; 3158; 3399; 3471; 3522; 3601; 3823; 3907; 3930; 4069; 4192; 4275; 4542; 4729; 4933; 5132; 5704
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 1190; 1446; 3832; 4534; 4613
Hsp92II	CATG!	33	304; 364; 609; 645; 651; 663; 741; 807; 887; 1098; 1386; 1479; 1584; 1707; 1734; 1858; 1908; 2145; 2187; 2253; 3262; 3402; 3474; 3565; 3706; 4051; 4237; 4268; 4294; 4650; 5034; 5754; 5805
HspAI	G!CGC	24	1357; 1446; 1923; 2340; 3096; 3104; 3130; 3152; 3161; 3174; 3205; 3824; 3832; 3896; 3933; 4199; 4459; 4635; 4721; 5124; 5233; 5407; 5507; 5574
KasI	G!GCGCC	2	1445; 3831
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1318
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	2489
KspAI	GTT!AAC	1	2595
Kzo9I	!GATC	31	585; 977; 1127; 1153; 1327; 1700; 1910; 2285; 2315; 2321; 2357; 2405; 2467; 2476; 2489; 3669; 3673; 3692; 4003; 4081; 4162; 4171; 4249; 4625; 4641; 5000; 5012; 5090; 5098; 5109; 5184
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	4	617; 2044; 4176; 4386
LpnI	RGC!GCGY	5	1447; 3097; 3105; 3833; 5508
LpnPI	CCDGNNNNNNNNN!	87	102; 295; 745; 802; 850; 884; 946; 961; 1022; 1090; 1114; 1138; 1200; 1287; 1332; 1392; 1407; 1432; 1464; 1525; 1549; 1678; 1711; 1739; 1759; 1774; 1815; 1876; 1897; 2011; 2046; 2078; 2123; 2137; 2163; 2227; 2270; 2308; 2348; 2386; 2407; 2445; 2487; 2569; 2874; 3063; 3286; 3324; 3340; 3380; 3435; 3452; 3552; 3637; 3750; 3827; 3849; 3872; 4008; 4022; 4041; 4098; 4165; 4215; 4231; 4288; 4346; 4555; 4621; 4645; 4721; 4810; 4913; 4946; 5177; 5195; 5341; 5361; 5385; 5411; 5460; 5558; 5603; 5633; 5712; 5737; 5774
LpnPI	!NNNNNNNNNNNNNCHGG	73	75; 268; 552; 775; 823; 919; 1020; 1063; 1172; 1198; 1233; 1285; 1304; 1364; 1404; 1437; 1557; 1578; 1732; 1757; 1787; 1855; 1984; 2029; 2059; 2122; 2222; 2243; 2281; 2359; 2401; 2459; 2915; 3035; 3092; 3155; 3353; 3365; 3425; 3437; 3669; 3714; 3757; 3799; 3821; 3849; 3896; 3958; 3980; 4070; 4137; 4160; 4204; 4299; 4318; 4343; 4492; 4593; 4636; 4693; 4783; 4886; 4913; 4931; 5167; 5204; 5357; 5383; 5523; 5541; 5576; 5657; 5710
Lsp1109I	GCAGCNNNNNNNN!	8	824; 1266; 2620; 3905; 3947; 4468; 4921; 5421
Lsp1109I	!NNNNNNNNNNNGCTGC	12	943; 1604; 1634; 2013; 2048; 2092; 3114; 3779; 3963; 4056; 5122; 5328
LweI	GCATCNNNNN!	11	851; 1535; 1568; 1796; 2165; 2648; 3411; 3483; 4131; 4195; 4470
LweI	!NNNNNNNNNGATGC	8	357; 1172; 1401; 2264; 3790; 4045; 4261; 5653
MabI	A!CCWGGT	1	3421
MaeI	C!TAG	10	592; 1292; 2463; 2480; 2681; 3099; 3655; 4670; 5004; 5257
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 971; 1736; 1991; 2195; 2892; 2904; 2947; 3057; 3948; 4135; 4916; 5049
MaeIII	!GTNAC	18	61; 148; 497; 894; 1563; 1804; 1812; 1966; 2191; 2620; 3121; 3133; 3952; 4258; 4948; 5214; 5330; 5393
MalI	GA!TC	31	587; 979; 1129; 1155; 1329; 1702; 1912; 2287; 2317; 2323; 2359; 2407; 2469; 2478; 2491; 3671; 3675; 3694; 4005; 4083; 4164; 4173; 4251; 4627; 4643; 5002; 5014; 5092; 5100; 5111; 5186
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3256; 4445
MbiI	GAG!CGG	4	1953; 2097; 3092; 4499
MboI	!GATC	31	585; 977; 1127; 1153; 1327; 1700; 1910; 2285; 2315; 2321; 2357; 2405; 2467; 2476; 2489; 3669; 3673; 3692; 4003; 4081; 4162; 4171; 4249; 4625; 4641; 5000; 5012; 5090; 5098; 5109; 5184

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MboII	GAAGANNNNNNNN!	12	634; 919; 1029; 1701; 1920; 2061; 2325; 3088; 3316; 4193; 4403; 5022
MboII	!NNNNNNNTCTTC	6	1419; 2112; 4483; 4650; 4850; 5093
McaTI	GCGC!GC	0	
MfeI	CAATTG	1	2582
MflI	R!GATCY	13	585; 1153; 1327; 1910; 2467; 2476; 4003; 4249; 4641; 5000; 5012; 5098; 5109
MhII	GDGCH!C	16	670; 697; 730; 1048; 1307; 1556; 1640; 1829; 3023; 3778; 3871; 3945; 4135; 4197; 4907; 5440
MIsI	TGG!CCA	4	601; 1273; 2020; 3914
MluI	A!CGCGT	1	2718
MluNI	TGG!CCA	4	601; 1273; 2020; 3914
MlyI	GAGTCNNNNN!	5	902; 2155; 2437; 2884; 3316
MlyI	!NNNNNGACTC	6	404; 1316; 1792; 2891; 4497; 5374
Mly113I	GG!CGCC	2	1446; 3832
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	3	1025; 1307; 2925
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	5357; 5541
MnII	CCTCNNNNNNN!	22	776; 955; 970; 1186; 1297; 1443; 1540; 1779; 1858; 1912; 1924; 2049; 2342; 2388; 2448; 2551; 3615; 4433; 4639; 4953; 5323; 5647
MnII	!NNNNNNGAGG	27	541; 657; 696; 717; 750; 867; 976; 1221; 1254; 1500; 1516; 1626; 1650; 1830; 2106; 2511; 2976; 3307; 3585; 3628; 3643; 3683; 3747; 3883; 4240; 4670; 5573
Mph1103I	ATGCA!T	3	3404; 3476; 5807
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1318
MroNI	G!CCGGC	4	1393; 3049; 4332; 4615
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	4	601; 1273; 2020; 3914
MseI	T!TAA	18	7; 632; 1313; 1973; 2533; 2594; 2715; 2736; 2747; 2759; 2770; 2787; 2885; 3156; 4975; 4989; 4994; 5046
MslI	CAYNN!NNRTG	6	365; 607; 646; 1792; 2248; 4269
MspI	C!CGG	25	1187; 1319; 1379; 1394; 1419; 1802; 1884; 2432; 2474; 3050; 3737; 3814; 3836; 3864; 3995; 4085; 4152; 4333; 4608; 4616; 4708; 5182; 5372; 5398; 5545
Msp20I	TGG!CCA	4	601; 1273; 2020; 3914
MspA1I	CMG!CKG	6	1066; 2105; 3330; 3938; 5167; 5412
MspCI	C!TTAAG	0	
MspJI	CNNRNNNNNNNNN!	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; 618; 633; 654; 672; 702; 720; 735; 750; 768; 801; 816; 844; 859; 883; 896; 912; 930; 944; 960; 973; 987; 1008; 1021; 1042; 1055; 1069; 1089; 1107; 1120; 1137; 1152; 1169; 1189; 1219; 1236; 1256; 1270; 1286; 1303; 1318; 1331; 1345; 1368; 1391; 1406; 1430; 1452; 1470; 1488; 1505; 1518; 1543; 1558; 1580; 1593; 1612; 1633; 1654; 1667; 1684; 1698; 1711; 1737; 1758; 1773; 1789; 1803; 1821; 1840; 1865; 1882; 1896; 1915; 1931; 1956; 1974; 2010; 2023; 2045; 2070; 2085; 2122; 2136; 2149; 2162; 2175; 2196; 2218; 2234; 2249; 2262; 2279; 2307; 2331; 2347; 2364; 2385; 2406; 2424; 2439; 2464; 2486; 2500; 2515; 2539; 2556; 2569; 2610; 2624; 2637; 2655; 2693; 2708; 2726; 2767; 2791; 2811; 2829; 2850; 2873; 2905; 2920; 2942; 2960; 2973; 2994; 3011; 3024; 3037; 3053; 3066; 3096; 3111; 3136; 3154; 3167; 3182; 3206; 3220; 3244; 3269; 3285; 3323; 3339; 3378; 3392; 3406; 3434; 3450; 3464; 3478; 3507; 3520; 3541; 3550; 3572; 3602; 3618; 3636; 3666; 3689; 3713; 3737; 3756; 3784; 3810; 3826; 3839; 3862; 3876; 3896; 3909; 3923; 3942; 3956; 3969; 3985; 4000; 4013; 4029; 4044; 4060; 4085; 4104; 4120; 4133; 4146; 4164; 4178; 4192; 4208; 4230; 4246; 4265; 4287; 4303; 4326; 4345; 4359; 4375; 4389; 4409; 4425; 4438; 4460; 4493; 4507; 4527; 4540; 4554; 4608; 4621; 4644; 4657; 4676; 4693; 4720; 4756; 4789; 4808; 4833; 4854; 4881; 4894; 4911; 4925; 4940; 4956; 5016; 5041; 5057; 5079; 5092; 5106; 5137; 5151; 5176; 5194; 5209; 5222; 5241; 5254; 5269; 5298; 5317; 5335; 5360; 5375; 5394; 5410; 5429; 5447; 5463; 5477; 5496; 5523; 5546; 5568; 5587; 5602; 5615; 5632; 5652; 5679; 5692; 5711; 5736; 5759; 5773; 5786; 5803

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; 592; 619; 646; 676; 700; 718; 742; 761; 783; 823; 840; 857; 890; 919; 961; 995; 1016; 1036; 1063; 1081; 1098; 1116; 1144; 1165; 1184; 1210; 1234; 1255; 1278; 1304; 1324; 1342; 1364; 1385; 1404; 1426; 1444; 1462; 1481; 1498; 1522; 1541; 1558; 1578; 1600; 1618; 1642; 1660; 1684; 1712; 1732; 1751; 1770; 1787; 1810; 1829; 1849; 1866; 1891; 1910; 1930; 1948; 1971; 1991; 2008; 2029; 2051; 2073; 2096; 2122; 2147; 2170; 2190; 2222; 2243; 2281; 2305; 2323; 2340; 2359; 2380; 2398; 2417; 2449; 2466; 2484; 2513; 2542; 2584; 2667; 2705; 2729; 2752; 2781; 2825; 2847; 2879; 2915; 2932; 2953; 2990; 3010; 3027; 3044; 3079; 3097; 3115; 3132; 3156; 3178; 3205; 3233; 3259; 3297; 3318; 3335; 3353; 3376; 3397; 3425; 3448; 3469; 3487; 3508; 3525; 3548; 3572; 3592; 3610; 3632; 3663; 3685; 3711; 3730; 3747; 3775; 3794; 3813; 3831; 3849; 3870; 3892; 3916; 3949; 3969; 3987; 4008; 4034; 4061; 4078; 4095; 4112; 4138; 4160; 4182; 4200; 4220; 4239; 4261; 4299; 4319; 4343; 4363; 4383; 4410; 4434; 4467; 4486; 4514; 4536; 4565; 4593; 4618; 4637; 4656; 4677; 4694; 4711; 4742; 4769; 4789; 4812; 4832; 4869; 4886; 4905; 4931; 4951; 4990; 5017; 5036; 5054; 5091; 5109; 5150; 5168; 5194; 5211; 5243; 5272; 5300; 5321; 5344; 5363; 5384; 5402; 5419; 5437; 5463; 5484; 5504; 5524; 5542; 5563; 5589; 5606; 5625; 5644; 5673; 5692; 5710; 5729; 5747; 5765; 5788
MspR9I	CC!NGG	35	90; 283; 790; 838; 934; 949; 1078; 1187; 1419; 1420; 1452; 1459; 1747; 1876; 1885; 1999; 2044; 2074; 2137; 2258; 2296; 2374; 3368; 3423; 3440; 3836; 3996; 4219; 4609; 4798; 4901; 5373; 5591; 5604; 5725
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	2582
MvaI	CC!WGG	27	90; 283; 790; 838; 934; 949; 1078; 1452; 1459; 1747; 1876; 1999; 2044; 2074; 2137; 2258; 2296; 2374; 3368; 3423; 3440; 4219; 4798; 4901; 5591; 5604; 5725
Mva1269I	GAATGCN!	1	2583
Mva1269I	G!CATTC	1	2676
MvnI	CG!CG	19	60; 1357; 1402; 1685; 1925; 2720; 2756; 3132; 3152; 3176; 3207; 3898; 4199; 4637; 4721; 4784; 4853; 5126; 5707
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 651; 1082; 1394; 1420; 1452; 1523; 1644; 1747; 1931; 2026; 3059; 3089; 3116; 3158; 3399; 3471; 3522; 3601; 3823; 3907; 3930; 4069; 4192; 4275; 4542; 4729; 4933; 5132; 5704
NaeI	GCC!GGC	4	1395; 3051; 4334; 4617
NarI	GG!CGCC	2	1446; 3832
NciI	CC!SGG	8	1187; 1419; 1420; 1885; 3836; 3996; 4609; 5373
NcoI	C!CATGG	4	360; 605; 3561; 4264
NdeI	CA!TATG	1	234
NdeII	!GATC	31	585; 977; 1127; 1153; 1327; 1700; 1910; 2285; 2315; 2321; 2357; 2405; 2467; 2476; 2489; 3669; 3673; 3692; 4003; 4081; 4162; 4171; 4249; 4625; 4641; 5000; 5012; 5090; 5098; 5109; 5184
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	3	280; 1821; 1911
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	734
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	770
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	3	244; 1785; 1875
NgoMIV	G!CCGGC	4	1393; 3049; 4332; 4615
NheI	G!CTAGC	1	591
NlaIII	CATG!	33	304; 364; 609; 645; 651; 663; 741; 807; 887; 1098; 1386; 1479; 1584; 1707; 1734; 1858; 1908; 2145; 2187; 2253; 3262; 3402; 3474; 3565; 3706; 4051; 4237; 4268; 4294; 4650; 5034; 5754; 5805
NlaIV	GGN!NCC	31	467; 669; 729; 1040; 1120; 1377; 1447; 1456; 1597; 1628; 1661; 1888; 2101; 2244; 2300; 2367; 2436; 2469; 2987; 3008; 3020; 3211; 3372; 3444; 3833; 3868; 4716; 4795; 4840; 5683; 5722
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	2103; 2664; 2979; 4571
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	5	347; 994; 1447; 1774; 5643
Nii3877I	CYCGR!G	3	1335; 1422; 1634
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1974; 3621; 4057

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmeAIII	!NNNNNNNNNNNNNNNNNNNNCTCGGC	2	1010; 3586
NmeDI	RCCGGYNNNNNNNN!	5	1405; 3061; 4163; 4344; 4627
NmeDI	!NNNNNNNNNNNNRCCGGY	5	1380; 3036; 4138; 4319; 4602
NmuCI	!GTSAC	9	894; 1563; 1804; 1812; 1966; 2191; 3121; 3952; 4258
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3934
NsiI	ATGCA!T	3	3404; 3476; 5807
NspI	RCATG!Y	6	645; 1386; 3402; 3474; 4237; 5754
NspV	TT!CGAA	1	4514
OliI	CACNN!NNGTG	1	607
PabI	GTA!C	16	220; 245; 300; 333; 384; 541; 659; 809; 1544; 1736; 1766; 1780; 2219; 2255; 2348; 4139
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3402; 3474; 4237
PaeR7I	C!TCGAG	1	1331
PagI	T!CATGA	4	1904; 2183; 3258; 5030
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	837; 4797; 4900
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	3653
PciI	A!CATGT	1	5750
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	4	617; 2044; 4176; 4386
PcsI	WCGNNNN!NNNCGW	8	1358; 1406; 4126; 4203; 4446; 4520; 4913; 5431
PctI	GAATGCN!	1	2583
PctI	G!CATTC	1	2676
PdiI	GCC!GGC	4	1395; 3051; 4334; 4617
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	743; 1489; 4317; 4451; 4561; 4598; 5776
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	2	1810; 3950
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	2	947; 4607
PhoI	GG!CC	39	84; 277; 601; 764; 1007; 1076; 1099; 1121; 1231; 1273; 1393; 1423; 1510; 1660; 1678; 1775; 1883; 1948; 2020; 2072; 2377; 2435; 2798; 2940; 3595; 3601; 3610; 3653; 3740; 3914; 4305; 4332; 4841; 4898; 4931; 5276; 5710; 5728; 5739
PinAI	A!CCGGT	0	
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	4213
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	3778; 4033
PleI	GAGTCNNNN!	5	901; 2154; 2436; 2883; 3315
PleI	!NNNNNGACTC	6	404; 1316; 1792; 2891; 4497; 5374
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNNCTCNNNNNNNNNNNN!	1	2914
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	5044
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	5076
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2882
PpsI	GAGTCNNNN!	5	901; 2154; 2436; 2883; 3315
PpsI	!NNNNNGACTC	6	404; 1316; 1792; 2891; 4497; 5374
Ppu10I	A!TGCAT	3	3400; 3472; 5803
Ppu21I	YAC!GTR	3	340; 2948; 4136
PpuMI	RG!GWCCY	1	1887
PscI	A!CATGT	1	5750
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2615; 2820
PspO3I	GGWC!C	5	1206; 1875; 1890; 4351; 4796
Psp5II	RG!GWCCY	1	1887
Psp6I	!CCWGG	27	88; 281; 788; 836; 932; 947; 1076; 1450; 1457; 1745; 1874; 1997; 2042; 2072; 2135; 2256; 2294; 2372; 3366; 3421; 3438; 4217; 4796; 4899; 5589; 5602; 5723

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	1	1812
PspGI	!CCWGG	27	88; 281; 788; 836; 932; 947; 1076; 1450; 1457; 1745; 1874; 1997; 2042; 2072; 2135; 2256; 2294; 2372; 3366; 3421; 3438; 4217; 4796; 4899; 5589; 5602; 5723
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	31	467; 669; 729; 1040; 1120; 1377; 1447; 1456; 1597; 1628; 1661; 1888; 2101; 2244; 2300; 2367; 2436; 2469; 2987; 3008; 3020; 3211; 3372; 3444; 3833; 3868; 4716; 4795; 4840; 5683; 5722
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 3562; 4561
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	1	3964
PspPI	G!GNCC	19	83; 276; 763; 1006; 1098; 1119; 1203; 1421; 1509; 1659; 1872; 1887; 2434; 2939; 4348; 4793; 4839; 4897; 4930
PspPPI	RG!GWCCY	1	1887
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	5	1469; 1744; 3385; 3457; 4963
PspPRI	!NNNNNNNNNNNNNNCTGRGG	5	858; 1286; 2097; 3298; 4493
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	3	1662; 1890; 4933
PstI	CTGCA!G	0	
PstNI	CAGNN!CTG	2	4933; 5341
PsuI	R!GATCY	13	585; 1153; 1327; 1910; 2467; 2476; 4003; 4249; 4641; 5000; 5012; 5098; 5109
PsyI	GACN!NNGTC	2	1810; 3950
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	3330; 3938
RcaI	T!CATGA	4	1904; 2183; 3258; 5030
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4347
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNNN!	2	1834; 2561
RleAI	!NNNNNNNNNTGTGGG	1	1487
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	16	219; 244; 299; 332; 383; 540; 658; 808; 1543; 1735; 1765; 1779; 2218; 2254; 2347; 4138
RsaNI	G!TAC	16	218; 243; 298; 331; 382; 539; 657; 807; 1542; 1734; 1764; 1778; 2217; 2253; 2346; 4137
RseI	CAYNN!NNRTG	6	365; 607; 646; 1792; 2248; 4269
RsrII	CG!GWCCG	1	4348
Rsr2I	CG!GWCCG	1	4348
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SalI	G!TCGAC	2	1090; 1366
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	4	617; 2044; 4176; 4386
SaqAI	T!TAA	18	7; 632; 1313; 1973; 2533; 2594; 2715; 2736; 2747; 2759; 2770; 2787; 2885; 3156; 4975; 4989; 4994; 5046
SatI	GC!NGC	43	762; 813; 816; 957; 1074; 1255; 1355; 1618; 1648; 1926; 2027; 2062; 2106; 2241; 2364; 2609; 3128; 3150; 3164; 3602; 3741; 3793; 3804; 3894; 3899; 3936; 3977; 4064; 4067; 4070; 4306; 4402; 4443; 4457; 4571; 4910; 4925; 5136; 5342; 5345; 5410; 5553; 5708
Sau96I	G!GNCC	19	83; 276; 763; 1006; 1098; 1119; 1203; 1421; 1509; 1659; 1872; 1887; 2434; 2939; 4348; 4793; 4839; 4897; 4930

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sau3AI	!GATC	31	585; 977; 1127; 1153; 1327; 1700; 1910; 2285; 2315; 2321; 2357; 2405; 2467; 2476; 2489; 3669; 3673; 3692; 4003; 4081; 4162; 4171; 4249; 4625; 4641; 5000; 5012; 5090; 5098; 5109; 5184
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	1	2347
SchI	GAGTCNNNNN!	5	902; 2155; 2437; 2884; 3316
SchI	!NNNNNGACTC	6	404; 1316; 1792; 2891; 4497; 5374
SciI	CTC!GAG	1	1333
ScrFI	CC!NGG	35	90; 283; 790; 838; 934; 949; 1078; 1187; 1419; 1420; 1452; 1459; 1747; 1876; 1885; 1999; 2044; 2074; 2137; 2258; 2296; 2374; 3368; 3423; 3440; 3836; 3996; 4219; 4609; 4798; 4901; 5373; 5591; 5604; 5725
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	7	1509; 2304; 2442; 3410; 3482; 3651; 5593
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	4	832; 2313; 3987; 4472
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	2	279; 1820
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	2	245; 1786
SduI	GDGCH!C	16	670; 697; 730; 1048; 1307; 1556; 1640; 1829; 3023; 3778; 3871; 3945; 4135; 4197; 4907; 5440
SelI	!CGCG	19	58; 1355; 1400; 1683; 1923; 2718; 2754; 3130; 3150; 3174; 3205; 3896; 4197; 4635; 4719; 4782; 4851; 5124; 5705
SetI	ASST!	81	125; 137; 178; 261; 308; 342; 447; 552; 568; 629; 656; 752; 802; 823; 974; 1109; 1127; 1178; 1246; 1265; 1289; 1313; 1338; 1606; 1619; 1717; 1739; 1877; 1892; 1904; 1936; 1985; 1994; 2038; 2056; 2063; 2078; 2173; 2198; 2216; 2392; 2522; 2543; 2552; 2564; 2613; 2780; 2895; 2907; 2950; 2987; 3037; 3060; 3184; 3332; 3427; 3620; 3733; 3861; 3940; 3951; 4023; 4094; 4138; 4398; 4544; 4588; 4919; 4950; 5009; 5052; 5195; 5216; 5315; 5452; 5467; 5486; 5498; 5542; 5588; 5639
SexAI	A!CCWGGT	1	3421
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	11	851; 1535; 1568; 1796; 2165; 2648; 3411; 3483; 4131; 4195; 4470
SfaNI	!NNNNNNNNNGATGC	8	357; 1172; 1401; 2264; 3790; 4045; 4261; 5653
Sfci	C!TRYAG	4	1929; 3167; 5294; 5485
SfiI	GGCCNNNN!NGGCC	1	3607
SfoI	GGC!GCC	2	1447; 3833
Sfr274I	C!TCGAG	1	1331
Sfr303I	CCGC!GG	0	
Sful	TT!CGAA	1	4514
SgeI	CNNGNNNNNNNN!	240	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 618; 654; 672; 702; 726; 744; 759; 801; 816; 849; 867; 883; 896; 924; 945; 960; 987; 1021; 1042; 1055; 1075; 1089; 1107; 1120; 1137; 1152; 1170; 1191; 1225; 1260; 1286; 1304; 1320; 1343; 1368; 1391; 1406; 1430; 1452; 1470; 1488; 1518; 1548; 1563; 1584; 1605; 1633; 1654; 1668; 1686; 1710; 1738; 1758; 1773; 1796; 1814; 1848; 1867; 1882; 1896; 1917; 1932; 1956; 1974; 2010; 2023; 2045; 2070; 2085; 2122; 2136; 2149; 2162; 2196; 2226; 2249; 2262; 2283; 2307; 2331; 2347; 2364; 2385; 2406; 2424; 2439; 2475; 2492; 2539; 2568; 2610; 2693; 2731; 2767; 2851; 2873; 2905; 2942; 2960; 2979; 2994; 3036; 3053; 3070; 3105; 3119; 3136; 3158; 3182; 3206; 3271; 3285; 3323; 3339; 3379; 3392; 3411; 3434; 3451; 3464; 3483; 3513; 3534; 3551; 3574; 3609; 3636; 3667; 3689; 3715; 3737; 3756; 3784; 3820; 3839; 3862; 3876; 3896; 3909; 3923; 3942; 3956; 3975; 4007; 4021; 4034; 4060; 4091; 4104; 4121; 4138; 4152; 4169; 4187; 4202; 4230; 4246; 4265; 4287; 4303; 4326; 4345; 4370; 4389; 4409; 4436; 4460; 4493; 4512; 4540; 4554; 4620; 4644; 4659; 4682; 4703; 4720; 4768; 4795; 4809; 4838; 4862; 4895; 4912; 4932; 4945; 4958; 5016; 5043; 5062; 5092; 5117; 5137; 5151; 5176; 5194; 5231; 5269; 5298; 5326; 5340; 5360; 5375; 5396; 5410; 5429; 5447; 5463; 5503; 5523; 5550; 5568; 5589; 5602; 5615; 5632; 5656; 5679; 5711; 5736; 5763; 5785

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; 628; 646; 676; 700; 718; 742; 775; 823; 841; 870; 898; 919; 961; 995; 1016; 1036; 1063; 1081; 1102; 1126; 1144; 1165; 1199; 1234; 1260; 1278; 1305; 1342; 1365; 1387; 1404; 1426; 1444; 1462; 1492; 1522; 1541; 1558; 1579; 1607; 1628; 1651; 1670; 1690; 1712; 1732; 1758; 1777; 1795; 1822; 1841; 1861; 1891; 1910; 1930; 1948; 1984; 2008; 2029; 2051; 2096; 2122; 2147; 2170; 2200; 2223; 2243; 2281; 2305; 2329; 2359; 2380; 2398; 2418; 2449; 2466; 2513; 2542; 2584; 2667; 2705; 2741; 2825; 2847; 2879; 2916; 2934; 2953; 3010; 3027; 3044; 3079; 3097; 3117; 3137; 3156; 3180; 3245; 3297; 3353; 3385; 3408; 3425; 3457; 3487; 3508; 3525; 3548; 3583; 3610; 3641; 3663; 3689; 3711; 3730; 3758; 3794; 3813; 3836; 3857; 3875; 3892; 3916; 3949; 3981; 4008; 4034; 4065; 4095; 4112; 4138; 4161; 4182; 4204; 4224; 4244; 4261; 4300; 4319; 4344; 4363; 4383; 4410; 4434; 4467; 4486; 4514; 4536; 4594; 4618; 4637; 4656; 4677; 4694; 4742; 4769; 4789; 4812; 4836; 4869; 4886; 4906; 4932; 4990; 5017; 5036; 5066; 5091; 5111; 5150; 5168; 5205; 5243; 5272; 5300; 5321; 5349; 5370; 5403; 5421; 5477; 5497; 5524; 5542; 5563; 5589; 5606; 5630; 5653; 5685; 5710; 5737; 5759; 5788
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	7	27; 1089; 1480; 1812; 2979; 4766; 5559
SimI	!GACCC	5	106; 1694; 4260; 4828; 5076
SinI	G!GWCC	5	1203; 1872; 1887; 4348; 4793
SlaI	C!TCGAG	1	1331
SmaI	CCC!GGG	1	1420
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	6	365; 607; 646; 1792; 2248; 4269
SmlI	C!TYRAG	6	1177; 1331; 4223; 5105; 5382; 5644
SmoI	C!TYRAG	6	1177; 1331; 4223; 5105; 5382; 5644
SmuI	CCCGNNNN!	10	93; 119; 286; 1071; 1173; 3154; 3509; 3530; 4726; 4858
SmuI	!NNNNNNGCGGG	8	1108; 1395; 1946; 3085; 3955; 4492; 4630; 4777
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3402; 3474; 4237
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 1314; 2582; 2646; 2724; 2750; 2761; 3408; 3480; 3572; 4990
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	3653
SsiI	C!CGC	40	58; 86; 98; 112; 279; 507; 589; 926; 1064; 1166; 1206; 1355; 1683; 2103; 2205; 2451; 3147; 3150; 3164; 3254; 3502; 3514; 3523; 3535; 3545; 3556; 3602; 3741; 3804; 4306; 4351; 4417; 4443; 4568; 4571; 4719; 4851; 5158; 5302; 5798
SsiI	G!CGG	33	370; 403; 528; 595; 761; 1073; 1115; 1402; 1925; 1953; 2097; 2240; 2363; 3092; 3119; 3207; 3317; 3898; 3962; 4063; 4066; 4346; 4401; 4499; 4637; 4784; 4924; 5167; 5412; 5533; 5552; 5679; 5707
SspI	AAT!ATT	2	2740; 3293
SspDI	G!GCGCC	2	1445; 3831
SspD5I	GGTGANNNNNNN!	5	376; 999; 1816; 4903; 5019
SspD5I	!NNNNNNNNTCACC	9	887; 1523; 1556; 1805; 1907; 1928; 2072; 2948; 4009
SstI	GAGCT!C	0	
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	932
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 854; 1070; 1172; 1193; 1425; 1637; 1649; 3031; 3153; 3508; 3529; 3842; 4245; 4384; 4455; 4725; 4857; 5087; 5525
Sth132I	!NNNNNNNNNCGGG	25	15; 407; 470; 903; 1107; 1394; 1411; 1800; 1876; 1945; 3032; 3084; 3185; 3912; 3954; 3987; 4491; 4600; 4629; 4776; 4880; 4911; 5364; 5408; 5616

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sth302II	CC!GG	25	1188; 1320; 1380; 1395; 1420; 1803; 1885; 2433; 2475; 3051; 3738; 3815; 3837; 3865; 3996; 4086; 4153; 4334; 4609; 4617; 4709; 5183; 5373; 5399; 5546
StrI	C!TCGAG	1	1331
StsI	GGATGNNNNNNNNNN!	6	1355; 2287; 3700; 4157; 4182; 4636
StsI	!NNNNNNNNNNNNNNCATCC	10	683; 771; 828; 983; 1512; 1845; 2142; 2187; 2355; 3504
StuI	AGG!CCT	1	3653
StyI	C!CWWGG	7	360; 605; 1673; 3561; 3654; 4264; 4669
StyD4I	!CCNGG	35	88; 281; 788; 836; 932; 947; 1076; 1185; 1417; 1418; 1450; 1457; 1745; 1874; 1883; 1997; 2042; 2072; 2135; 2256; 2294; 2372; 3366; 3421; 3438; 3834; 3994; 4217; 4607; 4796; 4899; 5371; 5589; 5602; 5723
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 672; 1824; 2229; 2923; 4212; 4328; 4436; 4759; 5250; 5720; 5791
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 974; 1739; 1994; 2198; 2895; 2907; 2950; 3060; 3951; 4138; 4919; 5052
TaqI	T!CGA	18	755; 782; 1091; 1332; 1367; 1550; 2006; 2981; 3672; 3945; 4101; 4125; 4161; 4323; 4514; 4559; 4814; 5652
TaqII	GACCGANNNNNNNNNN!	4	1669; 2852; 3869; 4537
TaqII	!NNNNNNNNNTCGGTC	1	4781
TaqII	CACCCANNNNNNNNNN!	4	745; 850; 1831; 2316
TaqII	!NNNNNNNNNTGGGTG	3	172; 3736; 4328
TasI	!AATT	11	18; 1314; 2582; 2646; 2724; 2750; 2761; 3408; 3480; 3572; 4990
TatI	W!GTACW	6	217; 297; 330; 381; 656; 2345
TauI	GCSG!C	21	764; 1076; 1357; 1928; 2243; 2366; 3152; 3166; 3604; 3743; 3806; 3901; 4066; 4069; 4308; 4404; 4445; 4573; 4927; 5555; 5710
TfiI	G!AWTC	7	743; 1489; 4317; 4451; 4561; 4598; 5776
TliI	C!TCGAG	1	1331
TruII	T!TAA	18	7; 632; 1313; 1973; 2533; 2594; 2715; 2736; 2747; 2759; 2770; 2787; 2885; 3156; 4975; 4989; 4994; 5046
Tru9I	T!TAA	18	7; 632; 1313; 1973; 2533; 2594; 2715; 2736; 2747; 2759; 2770; 2787; 2885; 3156; 4975; 4989; 4994; 5046
TscAI	CASTGNN!	9	1788; 1827; 2234; 2295; 2678; 3961; 5071; 5342; 5355
TseI	G!CWGC	22	812; 815; 956; 1254; 1617; 1647; 2026; 2061; 2105; 2608; 3127; 3792; 3893; 3935; 3976; 4069; 4456; 4909; 5135; 5341; 5344; 5409
TsoI	TARCCANNNNNNNNNN!	2	2804; 3151
TsoI	!NNNNNNNNNTGGYTA	3	781; 2609; 4361
Tsp45I	!GTSAC	9	894; 1563; 1804; 1812; 1966; 2191; 3121; 3952; 4258
Tsp509I	!AATT	11	18; 1314; 2582; 2646; 2724; 2750; 2761; 3408; 3480; 3572; 4990
TspDTI	ATGAANNNNNNNNNN!	8	664; 1030; 1921; 2200; 2326; 2590; 3891; 4595
TspDTI	!NNNNNNNNNTTCAT	6	26; 792; 813; 4309; 4765; 4972
TspEI	!AATT	11	18; 1314; 2582; 2646; 2724; 2750; 2761; 3408; 3480; 3572; 4990
TspGWI	ACGGANNNNNNNNNN!	1	4707
TspGWI	!NNNNNNNNNTCCGT	1	2340
TspMI	C!CCGGG	1	1418
TspRI	CASTGNN!	9	1788; 1827; 2234; 2295; 2678; 3961; 5071; 5342; 5355
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	1	1969
TstI	GGANNNNNGTGNNNNNNNNNN!	1	2001
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	2	1810; 3950
Tth111II	CAARCAANNNNNNNNNN!	2	2428; 5159
Tth111III	!NNNNNNNNNTGYTTG	4	1696; 4267; 5127; 5166
UnbI	!GGNCC	19	82; 275; 762; 1005; 1097; 1118; 1202; 1420; 1508; 1658; 1871; 1886; 2433; 2938; 4347; 4792; 4838; 4896; 4929
Van9II	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	693; 5436
VpaK11AI	!GGWCC	5	1202; 1871; 1886; 4347; 4792
VpaK11BI	G!GWCC	5	1203; 1872; 1887; 4348; 4793
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	2646; 2750; 2761
XbaI	T!CTAGA	1	2479
XceI	RCATG!Y	6	645; 1386; 3402; 3474; 4237; 5754
XcmI	CCANNNNN!NNNNTGG	2	1866; 2040
XhoI	C!TCGAG	1	1331
XhoII	R!GATCY	13	585; 1153; 1327; 1910; 2467; 2476; 4003; 4249; 4641; 5000; 5012; 5098; 5109
XmaI	C!CCGGG	1	1418
XmaJI	C!CTAGG	2	3654; 4669
XmiI	GT!MKAC	3	1091; 1193; 1367
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	10	592; 1292; 2463; 2480; 2681; 3099; 3655; 4670; 5004; 5257
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	1	2347
Zsp2I	ATGCA!T	3	3404; 3476; 5807