

pFusionRed-laminB1 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	3	2795; 3260; 3465
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNNGCAGGTG	1	1527
AasI	GACNNNN!NNGTC	4	2785; 3548; 4504; 6293
AatI	AGG!CCT	2	1039; 4298
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1190
AccII	CG!CG	30	60; 1377; 1391; 1425; 1434; 1460; 1525; 1550; 1562; 1615; 1617; 1622; 1624; 1643; 1649; 2025; 3365; 3401; 3777; 3797; 3821; 3852; 4543; 4844; 5282; 5366; 5429; 5498; 5771; 6352
AccIII	T!CCGGA	1	1321
Acc16I	TGC!GCA	2	1501; 4579
Acc36I	ACCTGCNNNN!	2	4745; 5195
Acc36I	!NNNNNNNNNGCAGGT	2	1527; 4364
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	7	465; 664; 724; 1738; 3630; 4476; 4511
AccB7I	CCANNNN!NTGG	1	1209
AccBSI	CCG!CTC	2	3901; 5090
AccBSI	GAG!CGG	2	3737; 5144
AceIII	CAGCTCNNNNNNN!	2	1802; 3433
AceIII	!NNNNNNNNNNNGAGCTG	6	552; 610; 1441; 1591; 1654; 2125
AcI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1372; 1375; 1389; 1411; 1641; 2238; 2654; 2712; 3792; 3795; 3809; 3899; 4147; 4159; 4168; 4180; 4190; 4201; 4247; 4386; 4449; 4951; 4996; 5062; 5088; 5213; 5216; 5364; 5496; 5803; 5947; 6443
AcI	G!CGG	34	370; 403; 528; 758; 1070; 1112; 1377; 1397; 1434; 1480; 1562; 1684; 2389; 2595; 3737; 3764; 3852; 3962; 4543; 4607; 4708; 4711; 4991; 5046; 5144; 5282; 5429; 5569; 5812; 6057; 6178; 6197; 6324; 6352
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	13	1850; 1859; 2408; 2744; 3120; 3129; 4345; 4656; 4902; 5294; 5653; 5751; 5837
AcIWI	!NNNNNGATCC	7	580; 1145; 3107; 4721; 5265; 5652; 5749
AcoI	Y!GGCCR	7	1268; 1563; 1607; 4383; 4557; 4948; 4975
AcsI	R!AATY	5	2704; 2946; 3291; 3395; 3406
AcuI	CTGAAGNNNNNNNNNNNNNNN!	6	1120; 1867; 2839; 3023; 4623; 5055
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	5853
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	10	122; 175; 258; 444; 1187; 1739; 2049; 4477; 5179; 5258
AdeI	CACNNN!GTG	3	1260; 1810; 3593
AfaI	GT!AC	15	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1486; 2068; 2576; 2580; 2979; 4783
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	29	49; 721; 1000; 1066; 1209; 1381; 1446; 1479; 1512; 1956; 2120; 2463; 2749; 3066; 3489; 3815; 4207; 4458; 5002; 5283; 5315; 5447; 5482; 5532; 5564; 5917; 6196; 6362; 6380
AfII	C!TTAAG	0	
AfIII	A!CRYGT	2	3363; 6395
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	10	687; 2314; 2514; 2718; 2943; 3888; 3932; 3942; 4355; 5931
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	19	88; 281; 785; 929; 944; 1073; 1439; 1505; 2215; 2456; 4011; 4066; 4083; 4862; 5441; 5544; 6234; 6247; 6368

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	GAANNNNNNNTTGGNNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	1	2517
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	1	2549
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	613
AlfI	GCANNNNNTGCGNNNNNNNNNNNN!	3	2126; 4051; 4123
AlfI	!NNNNNNNNNGCANNNNNTGTC	3	2092; 4017; 4089
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	3559
AloI	!NNNNNNNGGANNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	1	3527
AluI	AG!CT	37	566; 624; 651; 797; 1104; 1339; 1345; 1455; 1464; 1533; 1572; 1605; 1656; 1668; 1698; 1752; 1792; 1882; 2073; 2139; 2268; 2418; 2436; 2517; 3031; 3095; 3256; 3423; 3680; 3975; 4263; 4583; 5041; 5838; 6095; 6141; 6231
AluBI	AG!CT	37	566; 624; 651; 797; 1104; 1339; 1345; 1455; 1464; 1533; 1572; 1605; 1656; 1668; 1698; 1752; 1792; 1882; 2073; 2139; 2268; 2418; 2436; 2517; 3031; 3095; 3256; 3423; 3680; 3975; 4263; 4583; 5041; 5838; 6095; 6141; 6231
AlwI	GGATCNNNN!	13	1850; 1859; 2408; 2744; 3120; 3129; 4345; 4656; 4902; 5294; 5653; 5751; 5837
AlwI	!NNNNNGATCC	7	580; 1145; 3107; 4721; 5265; 5652; 5749
Alw21I	GWGCW!C	7	694; 1341; 1466; 1574; 4590; 4780; 6085
Alw26I	GTCTCN!	2	434; 2525
Alw26I	!NNNNNGAGAC	11	1042; 1132; 1231; 1504; 1591; 1996; 2771; 3901; 4319; 5338; 5466
Alw44I	G!TGCAC	2	690; 6081
AlwNI	CAGNNN!CTG	3	2665; 5578; 5986
Ama87I	C!YCGRG	2	1334; 2552
Aor13HI	T!CCGGA	1	1321
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	4	1796; 4045; 4117; 5579
ApaLI	G!TGCAC	2	690; 6081
ApeKI	G!CWGC	29	809; 953; 1251; 1385; 1455; 1502; 1530; 1533; 1656; 1698; 1768; 1789; 1885; 2409; 2848; 3028; 3253; 3772; 4437; 4538; 4580; 4621; 4714; 5101; 5554; 5780; 5986; 5989; 6054
ApoI	R!AATY	5	2704; 2946; 3291; 3395; 3406
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	2	1514; 4992
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4786; 5439; 6277
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	4876
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	785
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	8	1338; 1475; 1577; 2015; 2159; 2984; 3035; 4305
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	1	1683
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	2	3044; 3071
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	5047
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	31	586; 1125; 1151; 1331; 1662; 1729; 1746; 1843; 1852; 2401; 2737; 2763; 3113; 3122; 3135; 4315; 4319; 4338; 4649; 4727; 4808; 4817; 4895; 5271; 5287; 5646; 5658; 5736; 5744; 5755; 5830
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4595
Asp700I	GAANN!NNTTC	2	2309; 2435
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	4299; 5314
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	40	597; 1084; 1291; 1393; 1427; 1460; 1502; 1525; 1527; 1550; 1562; 1590; 1617; 1624; 1626; 1649; 1651; 1741; 2027; 2079; 3743; 3751; 3777; 3799; 3808; 3821; 3852; 4471; 4479; 4543; 4580; 4846; 5106; 5282; 5368; 5771; 5880; 6054; 6154; 6221

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AspS9I	G!GNCC	15	83; 276; 760; 1003; 1095; 1116; 1200; 1399; 1638; 3584; 4993; 5438; 5484; 5542; 5575
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	1780; 5159
AsuC2I	CC!SGG	6	836; 1184; 4481; 4641; 5254; 6018
AsuHPI	GGTGANNNNNNNN!	8	376; 627; 996; 1306; 1551; 1822; 5548; 5664
AsuHPI	!NNNNNNNTCACC	4	885; 1566; 3594; 4655
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	1334; 2552
AvaII	G!GWCC	3	1200; 4993; 5438
AviII	TGC!GCA	2	1501; 4579
AvrII	C!CTAGG	2	4299; 5314
AxyI	CC!TNAGG	3	869; 3957; 5589
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	7	667; 694; 727; 2917; 4423; 4516; 6085
BalI	TGG!CCA	2	1270; 4559
BamHI	G!GATCC	1	3112
BanI	G!GYRCC	7	465; 664; 724; 1738; 3630; 4476; 4511
BanII	GRGCY!C	7	1341; 1420; 1466; 1574; 3668; 4842; 5552
BanIII	AT!CGAT	1	4317
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	1	1209
BauI	C!ACGAG	3	1255; 5195; 6222
BauI	C!TCGTG	3	1105; 2907; 5069
BbeI	GGCG!C	2	1742; 4480
Bbr7I	GAAGACNNNNNN!	1	916
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	911
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	4	2364; 4047; 4119; 4882
BbvI	GCAGCNNNNNNNN!	16	821; 1263; 1397; 1514; 1542; 1780; 1801; 1897; 2421; 3040; 3265; 4550; 4592; 5113; 5566; 6066
BbvI	!NNNNNNNNNNNGCTGC	13	940; 1442; 1514; 1643; 1685; 1869; 2835; 3759; 4424; 4608; 4701; 5767; 5973
Bbv12I	GWGCW!C	7	694; 1341; 1466; 1574; 4590; 4780; 6085
BbvCI	CC!TCAGC	1	2658
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	4	3607; 4171; 4697; 5199
BccI	!NNNNNGATGG	9	1291; 1344; 1374; 2223; 2379; 2692; 3575; 4355; 4783
BceAI	ACGGCNNNNNNNNNN!	7	822; 966; 1017; 1083; 1652; 4903; 5390
BceAI	!NNNNNNNNNNNNNGCCGT	4	1550; 3618; 4436; 5895
BcefI	ACGGCNNNNNNNNNN!	7	822; 966; 1017; 1083; 1652; 4903; 5390
BcefI	!NNNNNNNNNNNNNGCCGT	4	1551; 3619; 4437; 5896
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	1384
BcgI	!NNNNNNNNNNNGCANNNNNTCG	1	1760
BcgI	GCANNNNNNTCGNNNNNNNNNN!	1	1794
BcgI	!NNNNNNNNNNCGANNNNNNTGC	1	1350
BciVI	GTATCCNNNNNN!	4	2559; 3906; 4696; 6197
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	2	2762; 3134
BcnI	CC!SGG	6	836; 1184; 4481; 4641; 5254; 6018
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNN!	3	2753; 3157; 6330
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	3	2719; 3123; 6296
BfaI	C!TAG	10	592; 2291; 2585; 3125; 3326; 3744; 4300; 5315; 5649; 5902
BfiI	ACTGGGNNNNN!	1	4426
BfiI	!NNNCCCAGT	3	289; 1857; 4178
BfmI	C!TRYAG	8	1528; 1534; 1657; 1883; 2278; 3812; 5939; 6130

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BfoI	RGCGC!Y	8	598; 1292; 1591; 1742; 3744; 3752; 4480; 6155
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	4	2559; 3906; 4696; 6197
BfuI	!NNNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4745; 5195
BfuAI	!NNNNNNNNGCAGGT	2	1527; 4364
BfuCI	!GATC	31	585; 1124; 1150; 1330; 1661; 1728; 1745; 1842; 1851; 2400; 2736; 2762; 3112; 3121; 3134; 4314; 4318; 4337; 4648; 4726; 4807; 4816; 4894; 5270; 5286; 5645; 5657; 5735; 5743; 5754; 5829
BglI	GCCNNNN!NGGC	6	90; 212; 283; 1079; 1394; 4252
BglII	A!GATCT	1	1330
BisI	GC!NGC	54	759; 810; 954; 1071; 1252; 1372; 1375; 1386; 1389; 1398; 1411; 1435; 1456; 1503; 1531; 1534; 1563; 1657; 1699; 1769; 1790; 1886; 2238; 2410; 2849; 3029; 3254; 3773; 3795; 3809; 4247; 4386; 4438; 4449; 4539; 4544; 4581; 4622; 4709; 4712; 4715; 4951; 5047; 5088; 5102; 5216; 5555; 5570; 5781; 5987; 5990; 6055; 6198; 6353
BlnI	C!CTAGG	2	4299; 5314
BlpI	GC!TNAGC	1	1414
BlsI	GCN!GC	54	760; 811; 955; 1072; 1253; 1373; 1376; 1387; 1390; 1399; 1412; 1436; 1457; 1504; 1532; 1535; 1564; 1658; 1700; 1770; 1791; 1887; 2239; 2411; 2850; 3030; 3255; 3774; 3796; 3810; 4248; 4387; 4439; 4450; 4540; 4545; 4582; 4623; 4710; 4713; 4716; 4952; 5048; 5089; 5103; 5217; 5556; 5571; 5782; 5988; 5991; 6056; 6199; 6354
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	1200; 4993; 5438
Bme1390I	CC!NGG	25	90; 283; 787; 836; 931; 946; 1075; 1184; 1441; 1507; 2217; 2458; 4013; 4068; 4085; 4481; 4641; 4864; 5254; 5443; 5546; 6018; 6236; 6249; 6370
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	1334; 2552
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	15	84; 277; 761; 1004; 1096; 1117; 1201; 1400; 1639; 3585; 4994; 5439; 5485; 5543; 5576
BmiI	GGN!NCC	23	467; 666; 726; 1117; 1320; 1401; 1438; 1740; 3072; 3114; 3632; 3653; 3665; 3856; 4017; 4089; 4478; 4513; 5361; 5440; 5485; 6328; 6367
BmrI	ACTGGGNNNNN!	1	4426
BmrI	!NNNNCCCAGT	3	289; 1857; 4178
BmrFI	CC!NGG	25	90; 283; 787; 836; 931; 946; 1075; 1184; 1441; 1507; 2217; 2458; 4013; 4068; 4085; 4481; 4641; 4864; 5254; 5443; 5546; 6018; 6236; 6249; 6370
BmsI	GCATCNNNNN!	11	848; 2566; 2651; 2687; 3091; 3293; 4056; 4128; 4776; 4840; 5115
BmsI	!NNNNNNNNNGATGC	9	357; 1001; 1169; 1776; 2100; 4435; 4690; 4906; 6298
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	4426
BmuI	!NNNNCCCAGT	3	289; 1857; 4178
BoxI	GACNN!NNGTC	1	1243
BpiI	GAAGACNN!	1	911
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	4266; 5165
BpI	!NNNNNNNNGAGNNNNNCTC	2	4234; 5133
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	4	1528; 2161; 3053; 5317
BpmI	!NNNNNNNNNNNNNNNCTCCAG	3	928; 1423; 5260
Bpu10I	CC!TNAGC	2	1878; 2658
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1780; 5159
Bpu1102I	GC!TNAGC	1	1414
BpuAI	GAAGACNN!	1	911
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	4	1156; 2185; 5771; 6310
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	7	1159; 1325; 1567; 2547; 2790; 4853; 6012
BpuMI	CC!SGG	6	836; 1184; 4481; 4641; 5254; 6018

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	5	1132; 1231; 1591; 1996; 5466
Bsa29I	AT!CGAT	1	4317
BsaAI	YAC!GTR	4	340; 2578; 3593; 4781
BsaBI	GATNN!NNATC	2	3139; 4336
BsaHI	GR!CGYC	10	122; 175; 258; 444; 1187; 1739; 2049; 4477; 5179; 5258
BsaJI	C!CNNGG	21	360; 611; 698; 929; 1375; 2216; 2456; 4011; 4083; 4206; 4241; 4250; 4299; 4640; 4909; 5314; 5441; 5442; 5544; 5545; 6235
BsaMI	GAATGCN!	2	2175; 3228
BsaMI	G!CATTC	1	3321
BsaWI	W!CCGGW	7	600; 1321; 3118; 4508; 5352; 6042; 6189
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	3557
BsaXI	!NNNNNNNGGAGNNNNNGT	2	2948; 3026
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	2	2978; 3056
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	3527
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNGTGTTG	2	3478; 5385
Bsc4I	CCNNNNN!NNGG	29	49; 721; 1000; 1066; 1209; 1381; 1446; 1479; 1512; 1956; 2120; 2463; 2749; 3066; 3489; 3815; 4207; 4458; 5002; 5283; 5315; 5447; 5482; 5532; 5564; 5917; 6196; 6362; 6380
BscAI	GCATCNNNN!	11	847; 2565; 2650; 2686; 3090; 3292; 4055; 4127; 4775; 4839; 5114
BscAI	!NNNNNGATGC	9	360; 1004; 1172; 1779; 2103; 4438; 4693; 4909; 6301
BseI	ACTGGN!	7	1214; 1287; 2670; 2922; 4421; 4622; 5868
BseI	C!CAGT	6	295; 1863; 3506; 4184; 5980; 5993
Bse8I	GATNN!NNATC	2	3139; 4336
Bse21I	CC!TNAGG	3	869; 3957; 5589
Bse118I	R!CCGGY	7	600; 1472; 1576; 3694; 4796; 4977; 5260
BseAI	T!CCGGA	1	1321
BseBI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1441; 1507; 2217; 2458; 4013; 4068; 4085; 4864; 5443; 5546; 6236; 6249; 6370
BseCI	AT!CGAT	1	4317
BseDI	C!CNNGG	21	360; 611; 698; 929; 1375; 2216; 2456; 4011; 4083; 4206; 4241; 4250; 4299; 4640; 4909; 5314; 5441; 5442; 5544; 5545; 6235
Bse3DI	GCAATGNN!	1	4710
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	1385; 4337; 4794; 4819; 5273
BseGI	!CATCC	7	694; 782; 839; 2260; 2557; 3082; 4163
BseJI	GATNN!NNATC	2	3139; 4336
BseLI	CCNNNNN!NNGG	29	49; 721; 1000; 1066; 1209; 1381; 1446; 1479; 1512; 1956; 2120; 2463; 2749; 3066; 3489; 3815; 4207; 4458; 5002; 5283; 5315; 5447; 5482; 5532; 5564; 5917; 6196; 6362; 6380
BseMI	GCAATGNN!	1	4710
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	4	1341; 2672; 2965; 5603
BseMII	!NNNNNNNNCTGAG	8	860; 1405; 1946; 3948; 4250; 5131; 5703; 6112
BseNI	ACTGGN!	7	1214; 1287; 2670; 2922; 4421; 4622; 5868
BseNI	C!CAGT	6	295; 1863; 3506; 4184; 5980; 5993
BsePI	G!CGCGC	3	1523; 1622; 1647
BseRI	GAGGAGNNNNNNNNNN!	8	1328; 1465; 1567; 2005; 2149; 2974; 3025; 4295
BseRI	!NNNNNNNNCTCCTC	1	1693
BseSI	GKGCMLC	7	667; 694; 727; 2917; 4423; 4516; 6085
BseXI	GCAGCNNNNNNNN!	16	821; 1263; 1397; 1514; 1542; 1780; 1801; 1897; 2421; 3040; 3265; 4550; 4592; 5113; 5566; 6066
BseXI	!NNNNNNNNNNNGCTGC	13	940; 1442; 1514; 1643; 1685; 1869; 2835; 3759; 4424; 4608; 4701; 5767; 5973
BseX3I	C!GGCCG	2	1563; 4383
BseYI	C!CCAGC	5	993; 2264; 4020; 4092; 6091
BseYI	G!CTGGG	4	1031; 1668; 2753; 4981
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNNCTGCAC	1	1787
Bsh1236I	CG!CG	30	60; 1377; 1391; 1425; 1434; 1460; 1525; 1550; 1562; 1615; 1617; 1622; 1624; 1643; 1649; 2025; 3365; 3401; 3777; 3797; 3821; 3852; 4543; 4844; 5282; 5366; 5429; 5498; 5771; 6352
Bsh1285I	CGRY!CG	4	605; 1566; 4386; 6061

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BshFI	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1400; 1565; 1580; 1609; 1639; 2828; 3443; 3585; 4240; 4246; 4255; 4298; 4385; 4559; 4950; 4977; 5486; 5543; 5576; 5921; 6355; 6373; 6384
BshNI	G!GYRCC	7	465; 664; 724; 1738; 3630; 4476; 4511
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	4317
BsiEI	CGRY!CG	4	605; 1566; 4386; 6061
BsiHKAI	GWGCW!C	7	694; 1341; 1466; 1574; 4590; 4780; 6085
BsiHKCI	C!YCGRG	2	1334; 2552
BsiSI	C!CGG	23	601; 835; 1184; 1322; 1473; 1577; 3119; 3695; 4382; 4459; 4481; 4509; 4640; 4730; 4797; 4978; 5253; 5261; 5353; 5827; 6017; 6043; 6190
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	29	49; 721; 1000; 1066; 1209; 1381; 1446; 1479; 1512; 1956; 2120; 2463; 2749; 3066; 3489; 3815; 4207; 4458; 5002; 5283; 5315; 5447; 5482; 5532; 5564; 5917; 6196; 6362; 6380
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4628; 5160; 5269
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3993; 4065; 4129; 5424
BsmI	GAATGCN!	2	2175; 3228
BsmI	G!CATTC	1	3321
BsmAI	GTCTCN!	2	434; 2525
BsmAI	!NNNNNGAGAC	11	1042; 1132; 1231; 1504; 1591; 1996; 2771; 3901; 4319; 5338; 5466
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	2	1042; 1504
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4628; 5160; 5269
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3993; 4065; 4129; 5424
BsnI	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1400; 1565; 1580; 1609; 1639; 2828; 3443; 3585; 4240; 4246; 4255; 4298; 4385; 4559; 4950; 4977; 5486; 5543; 5576; 5921; 6355; 6373; 6384
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	5	1132; 1231; 1591; 1996; 5466
BsoBI	C!YCGRG	2	1334; 2552
Bsp13I	T!CCGGA	1	1321
Bsp19I	C!CATGG	4	360; 611; 4206; 4909
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	3	289; 2907; 5280
Bsp24I	!NNNNNNCCANNNNNGTC	2	5701; 5879
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	5733; 5911
Bsp24I	!NNNNNNNGACNNNNNTGG	3	257; 2875; 5248
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1780; 5159
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	31	585; 1124; 1150; 1330; 1661; 1728; 1745; 1842; 1851; 2400; 2736; 2762; 3112; 3121; 3134; 4314; 4318; 4337; 4648; 4726; 4807; 4816; 4894; 5270; 5286; 5645; 5657; 5735; 5743; 5754; 5829
Bsp1286I	GDGCH!C	16	667; 694; 727; 1341; 1420; 1466; 1574; 2917; 3668; 4423; 4516; 4590; 4780; 4842; 5552; 6085
Bsp1407I	T!GTACA	2	653; 1484
Bsp1720I	GC!TNAGC	1	1414
BspACI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1372; 1375; 1389; 1411; 1641; 2238; 2654; 2712; 3792; 3795; 3809; 3899; 4147; 4159; 4168; 4180; 4190; 4201; 4247; 4386; 4449; 4951; 4996; 5062; 5088; 5213; 5216; 5364; 5496; 5803; 5947; 6443
BspACI	G!CGG	34	370; 403; 528; 758; 1070; 1112; 1377; 1397; 1434; 1480; 1562; 1684; 2389; 2595; 3737; 3764; 3852; 3962; 4543; 4607; 4708; 4711; 4991; 5046; 5144; 5282; 5429; 5569; 5812; 6057; 6178; 6197; 6324; 6352
BspCNI	CTCAGNNNNNNNN!	4	1340; 2671; 2964; 5602
BspCNI	!NNNNNNNCTGAG	8	861; 1406; 1947; 3949; 4251; 5132; 5704; 6113
BspDI	AT!CGAT	1	4317
BspD6I	GACTCNNNN!	5	418; 1333; 3550; 5156; 6033
BspD6I	!NNNNNGAGTC	4	883; 2280; 3513; 3945
BspEI	T!CCGGA	1	1321

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspFNI	CG!CG	30	60; 1377; 1391; 1425; 1434; 1460; 1525; 1550; 1562; 1615; 1617; 1622; 1624; 1643; 1649; 2025; 3365; 3401; 3777; 3797; 3821; 3852; 4543; 4844; 5282; 5366; 5429; 5498; 5771; 6352
BspHI	T!CATGA	3	2088; 3903; 5675
BspLI	GGN!NCC	23	467; 666; 726; 1117; 1320; 1401; 1438; 1740; 3072; 3114; 3632; 3653; 3665; 3856; 4017; 4089; 4478; 4513; 5361; 5440; 5485; 6328; 6367
BspMI	ACCTGCNNNN!	2	4745; 5195
BspMI	!NNNNNNNNGCAGGT	2	1527; 4364
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	13	1850; 1859; 2408; 2744; 3120; 3129; 4345; 4656; 4902; 5294; 5653; 5751; 5837
BspPI	!NNNNNGATCC	7	580; 1145; 3107; 4721; 5265; 5652; 5749
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	4821; 5031
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1780; 5159
BspT107I	G!GYRCC	7	465; 664; 724; 1738; 3630; 4476; 4511
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	5	1132; 1231; 1591; 1996; 5466
BsrI	ACTGGN!	7	1214; 1287; 2670; 2922; 4421; 4622; 5868
BsrI	C!CAGT	6	295; 1863; 3506; 4184; 5980; 5993
BsrBI	CCG!CTC	2	3901; 5090
BsrBI	GAG!CGG	2	3737; 5144
BsrDI	GCAATGNN!	1	4710
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	600; 1472; 1576; 3694; 4796; 4977; 5260
BsrGI	T!GTACA	2	653; 1484
BsrSI	ACTGGN!	7	1214; 1287; 2670; 2922; 4421; 4622; 5868
BsrSI	C!CAGT	6	295; 1863; 3506; 4184; 5980; 5993
BssAI	R!CCGGY	7	600; 1472; 1576; 3694; 4796; 4977; 5260
BssECI	C!CNNGG	21	360; 611; 698; 929; 1375; 2216; 2456; 4011; 4083; 4206; 4241; 4250; 4299; 4640; 4909; 5314; 5441; 5442; 5544; 5545; 6235
BssHII	G!CGCGC	3	1523; 1622; 1647
BssKI	!CCNGG	25	88; 281; 785; 834; 929; 944; 1073; 1182; 1439; 1505; 2215; 2456; 4011; 4066; 4083; 4479; 4639; 4862; 5252; 5441; 5544; 6016; 6234; 6247; 6368
BssMI	!GATC	31	585; 1124; 1150; 1330; 1661; 1728; 1745; 1842; 1851; 2400; 2736; 2762; 3112; 3121; 3134; 4314; 4318; 4337; 4648; 4726; 4807; 4816; 4894; 5270; 5286; 5645; 5657; 5735; 5743; 5754; 5829
BssNI	GR!CGYC	10	122; 175; 258; 444; 1187; 1739; 2049; 4477; 5179; 5258
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1255; 5195; 6222
BssSI	C!TCGTG	3	1105; 2907; 5069
BssTII	C!CWWGG	6	360; 611; 4206; 4299; 4909; 5314
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	7	1982; 2498; 2593; 3002; 3944; 4821; 5031
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	10	122; 175; 258; 444; 1187; 1739; 2049; 4477; 5179; 5258
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	4	1795; 4044; 4116; 5578
BstAUI	T!GTACA	2	653; 1484
BstBI	TT!CGAA	2	1780; 5159
Bst2BI	C!ACGAG	3	1255; 5195; 6222
Bst2BI	C!TCGTG	3	1105; 2907; 5069
BstBAI	YAC!GTR	4	340; 2578; 3593; 4781
Bst4CI	ACN!GT	21	76; 198; 269; 543; 581; 669; 1898; 2180; 2205; 2212; 2547; 2835; 2982; 3568; 4857; 4973; 5081; 5404; 5895; 6365; 6436
BstC8I	GCN!NGC	45	86; 279; 593; 622; 712; 916; 1395; 1462; 1478; 1525; 1607; 1624; 1641; 1645; 1649; 2075; 2081; 2333; 2362; 2826; 2871; 3696; 3739; 3753; 4026; 4045; 4098; 4117; 4371; 4557; 4776; 4842; 4848; 4876; 4880; 4925; 4979; 5262; 5449; 5496; 5552; 5574; 5785; 6345; 6382
BstDEI	C!TNAG	15	869; 1327; 1414; 1715; 1878; 1955; 2490; 2658; 2951; 3957; 4259; 5140; 5589; 5712; 6121

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstDSI	C!CRYGG	5	360; 611; 1375; 4206; 4909
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	1	1954
BstF5I	GGATGNN!	5	1385; 4337; 4794; 4819; 5273
BstF5I	!CATCC	7	694; 782; 839; 2260; 2557; 3082; 4163
BstFNI	CG!CG	30	60; 1377; 1391; 1425; 1434; 1460; 1525; 1550; 1562; 1615; 1617; 1622; 1624; 1643; 1649; 2025; 3365; 3401; 3777; 3797; 3821; 3852; 4543; 4844; 5282; 5366; 5429; 5498; 5771; 6352
BstH2I	RGCGC!Y	8	598; 1292; 1591; 1742; 3744; 3752; 4480; 6155
BstHHI	GCG!C	40	597; 1084; 1291; 1393; 1427; 1460; 1502; 1525; 1527; 1550; 1562; 1590; 1617; 1624; 1626; 1649; 1651; 1741; 2027; 2079; 3743; 3751; 3777; 3799; 3808; 3821; 3852; 4471; 4479; 4543; 4580; 4846; 5106; 5282; 5368; 5771; 5880; 6054; 6154; 6221
BstKTI	GAT!C	31	588; 1127; 1153; 1333; 1664; 1731; 1748; 1845; 1854; 2403; 2739; 2765; 3115; 3124; 3137; 4317; 4321; 4340; 4651; 4729; 4810; 4819; 4897; 5273; 5289; 5648; 5660; 5738; 5746; 5757; 5832
BstMAI	GTCTCN!	2	434; 2525
BstMAI	!NNNNNGAGAC	11	1042; 1132; 1231; 1504; 1591; 1996; 2771; 3901; 4319; 5338; 5466
BstMBI	!GATC	31	585; 1124; 1150; 1330; 1661; 1728; 1745; 1842; 1851; 2400; 2736; 2762; 3112; 3121; 3134; 4314; 4318; 4337; 4648; 4726; 4807; 4816; 4894; 5270; 5286; 5645; 5657; 5735; 5743; 5754; 5829
BstMCI	CGRY!CG	4	605; 1566; 4386; 6061
BstMWI	GCNNNNN!NNGC	40	90; 212; 244; 283; 376; 400; 648; 1079; 1351; 1394; 1424; 1461; 1533; 1621; 1653; 1665; 1795; 1879; 2022; 2415; 2854; 3704; 3734; 3761; 3803; 4044; 4116; 4167; 4246; 4468; 4552; 4575; 4714; 4837; 4920; 5187; 5374; 5578; 5777; 6349
BstNI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1441; 1507; 2217; 2458; 4013; 4068; 4085; 4864; 5443; 5546; 6236; 6249; 6370
BstNSI	RCATG!Y	9	642; 1088; 1983; 2300; 2364; 4047; 4119; 4882; 6399
BstOI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1441; 1507; 2217; 2458; 4013; 4068; 4085; 4864; 5443; 5546; 6236; 6249; 6370
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1243
BstSCI	!CCNGG	25	88; 281; 785; 834; 929; 944; 1073; 1182; 1439; 1505; 2215; 2456; 4011; 4066; 4083; 4479; 4639; 4862; 5252; 5441; 5544; 6016; 6234; 6247; 6368
BstSFI	C!TRYAG	8	1528; 1534; 1657; 1883; 2278; 3812; 5939; 6130
BstSLI	GKGC!C	7	667; 694; 727; 2917; 4423; 4516; 6085
BstSNI	TAC!GTA	2	340; 2578
BstUI	CG!CG	30	60; 1377; 1391; 1425; 1434; 1460; 1525; 1550; 1562; 1615; 1617; 1622; 1624; 1643; 1649; 2025; 3365; 3401; 3777; 3797; 3821; 3852; 4543; 4844; 5282; 5366; 5429; 5498; 5771; 6352
Bst2UI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1441; 1507; 2217; 2458; 4013; 4068; 4085; 4864; 5443; 5546; 6236; 6249; 6370
BstV1I	GCAGC!NNNNNNN!	16	821; 1263; 1397; 1514; 1542; 1780; 1801; 1897; 2421; 3040; 3265; 4550; 4592; 5113; 5566; 6066
BstV1I	!NNNNNNNNNNNGCTGC	13	940; 1442; 1514; 1643; 1685; 1869; 2835; 3759; 4424; 4608; 4701; 5767; 5973
BstV2I	GAAGACNN!	1	911
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANN!NTGG	0	
BstX2I	R!GATCY	13	585; 1150; 1330; 1842; 3112; 3121; 4648; 4894; 5286; 5645; 5657; 5743; 5754
BstYI	R!GATCY	13	585; 1150; 1330; 1842; 3112; 3121; 4648; 4894; 5286; 5645; 5657; 5743; 5754
BstZI	C!GGCCG	2	1563; 4383
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNN!	4	2559; 3906; 4696; 6197
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	4317
Bsu36I	CC!TNAGG	3	869; 3957; 5589
BsuRI	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1400; 1565; 1580; 1609; 1639; 2828; 3443; 3585; 4240; 4246; 4255; 4298; 4385; 4559; 4950; 4977; 5486; 5543; 5576; 5921; 6355; 6373; 6384

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsuTUI	AT!CGAT	1	4317
BtgI	C!CRYGG	5	360; 611; 1375; 4206; 4909
BtgZI	GCGATGNNNNNNNNNN!	2	3594; 4929
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 4748; 5092
BthCI	GCNG!C	54	761; 812; 956; 1073; 1254; 1374; 1377; 1388; 1391; 1400; 1413; 1437; 1458; 1505; 1533; 1536; 1565; 1659; 1701; 1771; 1792; 1888; 2240; 2412; 2851; 3031; 3256; 3775; 3797; 3811; 4249; 4388; 4440; 4451; 4541; 4546; 4583; 4624; 4711; 4714; 4717; 4953; 5049; 5090; 5104; 5218; 5557; 5572; 5783; 5989; 5992; 6057; 6200; 6355
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	3316
BtsCI	GGATGNN!	5	1385; 4337; 4794; 4819; 5273
BtsCI	!CATCC	7	694; 782; 839; 2260; 2557; 3082; 4163
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4745; 5195
BveI	!NNNNNNNNNGCAGGT	2	1527; 4364
Cac8I	GCN!NGC	45	86; 279; 593; 622; 712; 916; 1395; 1462; 1478; 1525; 1607; 1624; 1641; 1645; 1649; 2075; 2081; 2333; 2362; 2826; 2871; 3696; 3739; 3753; 4026; 4045; 4098; 4117; 4371; 4557; 4776; 4842; 4848; 4876; 4880; 4925; 4979; 5262; 5449; 5496; 5552; 5574; 5785; 6345; 6382
CaiI	CAGNNN!CTG	3	2665; 5578; 5986
CciI	T!CATGA	3	2088; 3903; 5675
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 1491; 2682; 4766; 4771; 4969; 5110
CdiI	C!GATG	5	1052; 1233; 1349; 3580; 4915
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	6349
CdpI	!NNNNNNNNNNNNNNNNNNCTCCGC	3	486; 4138; 4180
CelII	GC!TNAGC	1	1414
CfoI	GCG!C	40	597; 1084; 1291; 1393; 1427; 1460; 1502; 1525; 1527; 1550; 1562; 1590; 1617; 1624; 1626; 1649; 1651; 1741; 2027; 2079; 3743; 3751; 3777; 3799; 3808; 3821; 3852; 4471; 4479; 4543; 4580; 4846; 5106; 5282; 5368; 5771; 5880; 6054; 6154; 6221
CfrI	Y!GGCCR	7	1268; 1563; 1607; 4383; 4557; 4948; 4975
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	7	600; 1472; 1576; 3694; 4796; 4977; 5260
Cfr13I	G!GNCC	15	83; 276; 760; 1003; 1095; 1116; 1200; 1399; 1638; 3584; 4993; 5438; 5484; 5542; 5575
Cfr42I	CCGC!GG	1	1378
ChaI	GATC!	31	589; 1128; 1154; 1334; 1665; 1732; 1749; 1846; 1855; 2404; 2740; 2766; 3116; 3125; 3138; 4318; 4322; 4341; 4652; 4730; 4811; 4820; 4898; 5274; 5290; 5649; 5661; 5739; 5747; 5758; 5833
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	6	706; 2926; 4294; 5734; 5834; 5912
CjeI	!NNNNNNNNNACNNNNNNNTGG	9	64; 257; 1791; 2875; 3961; 4056; 5248; 5798; 6353
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	9	98; 291; 1825; 2909; 3995; 4090; 5282; 5832; 6387
CjeI	!NNNNNNNNCCANNNNNNGT	6	672; 2892; 4260; 5700; 5800; 5878
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	3	2903; 5734; 5912
CjePI	!NNNNNNNNNGANNNNNNNTGG	5	257; 2285; 2875; 5248; 5847
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	5	290; 2318; 2908; 5281; 5880
CjePI	!NNNNNNNNCCANNNNNNNNTC	3	2870; 5701; 5879
Clal	AT!CGAT	1	4317
CpoI	CG!GWCCG	1	4993
CseI	GACGCNNNNN!	4	526; 1621; 5187; 5266
CseI	!NNNNNNNNNNNGCGTC	5	1176; 2038; 3810; 5705; 6283
CsiI	A!CCWGGT	1	4066
CspI	CG!GWCCG	1	4993
Csp6I	G!TAC	15	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1485; 2067; 2575; 2579; 2978; 4782
Csp45I	TT!CGAA	2	1780; 5159
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNNGTGGNNNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspCI	!NNNNNNNNNNCAANNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	6	656; 1247; 1472; 2156; 3757; 5366
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	1	1856
CviAII	C!ATG	33	301; 361; 612; 639; 645; 657; 735; 801; 881; 1085; 1092; 1980; 2017; 2089; 2107; 2155; 2241; 2297; 2361; 2463; 3904; 4044; 4116; 4207; 4348; 4693; 4879; 4910; 4936; 5292; 5676; 6396; 6447
CviJI	RG!CY	137	42; 84; 93; 277; 566; 624; 651; 714; 761; 790; 797; 875; 941; 953; 997; 1004; 1031; 1039; 1073; 1096; 1104; 1118; 1228; 1264; 1270; 1339; 1345; 1388; 1400; 1418; 1437; 1455; 1464; 1476; 1505; 1533; 1565; 1572; 1580; 1605; 1609; 1639; 1656; 1668; 1698; 1752; 1792; 1873; 1882; 1888; 1949; 2073; 2083; 2124; 2139; 2237; 2255; 2268; 2418; 2436; 2455; 2517; 2528; 2662; 2753; 2828; 2848; 2869; 2873; 3031; 3095; 3146; 3256; 3423; 3443; 3585; 3666; 3680; 3694; 3975; 4016; 4088; 4211; 4240; 4246; 4255; 4263; 4286; 4298; 4304; 4385; 4402; 4410; 4437; 4462; 4546; 4555; 4559; 4583; 4621; 4697; 4714; 4733; 4796; 4840; 4850; 4867; 4950; 4977; 4981; 5018; 5041; 5057; 5237; 5264; 5325; 5447; 5486; 5543; 5550; 5557; 5576; 5587; 5838; 5867; 5910; 5921; 5986; 6065; 6090; 6095; 6141; 6231; 6329; 6355; 6373; 6384
CviKI-1	RG!CY	137	42; 84; 93; 277; 566; 624; 651; 714; 761; 790; 797; 875; 941; 953; 997; 1004; 1031; 1039; 1073; 1096; 1104; 1118; 1228; 1264; 1270; 1339; 1345; 1388; 1400; 1418; 1437; 1455; 1464; 1476; 1505; 1533; 1565; 1572; 1580; 1605; 1609; 1639; 1656; 1668; 1698; 1752; 1792; 1873; 1882; 1888; 1949; 2073; 2083; 2124; 2139; 2237; 2255; 2268; 2418; 2436; 2455; 2517; 2528; 2662; 2753; 2828; 2848; 2869; 2873; 3031; 3095; 3146; 3256; 3423; 3443; 3585; 3666; 3680; 3694; 3975; 4016; 4088; 4211; 4240; 4246; 4255; 4263; 4286; 4298; 4304; 4385; 4402; 4410; 4437; 4462; 4546; 4555; 4559; 4583; 4621; 4697; 4714; 4733; 4796; 4840; 4850; 4867; 4950; 4977; 4981; 5018; 5041; 5057; 5237; 5264; 5325; 5447; 5486; 5543; 5550; 5557; 5576; 5587; 5838; 5867; 5910; 5921; 5986; 6065; 6090; 6095; 6141; 6231; 6329; 6355; 6373; 6384
CviQI	G!TAC	15	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1485; 2067; 2575; 2579; 2978; 4782
DdeI	C!TNAG	15	869; 1327; 1414; 1715; 1878; 1955; 2490; 2658; 2951; 3957; 4259; 5140; 5589; 5712; 6121
DinI	GGC!GCC	2	1740; 4478
DpnI	GA!TC	31	587; 1126; 1152; 1332; 1663; 1730; 1747; 1844; 1853; 2402; 2738; 2764; 3114; 3123; 3136; 4316; 4320; 4339; 4650; 4728; 4809; 4818; 4896; 5272; 5288; 5647; 5659; 5737; 5745; 5756; 5831
DpnII	!GATC	31	585; 1124; 1150; 1330; 1661; 1728; 1745; 1842; 1851; 2400; 2736; 2762; 3112; 3121; 3134; 4314; 4318; 4337; 4648; 4726; 4807; 4816; 4894; 5270; 5286; 5645; 5657; 5735; 5743; 5754; 5829
DraI	TTT!AAA	4	2988; 3179; 5621; 5640
DraII	RG!GNCCY	1	5575
DraIII	CACNN!GTG	3	1260; 1810; 3593
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 851; 5957
DraRI	!NNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	4	2785; 3548; 4504; 6293
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	2	476; 2548
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	2785; 3548; 4504; 6293
EaeI	Y!GGCCR	7	1268; 1563; 1607; 4383; 4557; 4948; 4975
EagI	C!GGCCG	2	1563; 4383
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	7	1982; 2498; 2593; 3002; 3944; 4821; 5031
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	7	1982; 2498; 2593; 3002; 3944; 4821; 5031
EciI	GGCGGANNNNNNNNNN!	6	1699; 2404; 3977; 5006; 6193; 6339
EciI	!NNNNNNNNNTCCGCC	5	496; 2643; 4148; 4169; 4190
Ecl136II	GAG!CTC	3	1339; 1464; 1572
EclXI	C!GGCCG	2	1563; 4383

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco24I	GRGCY!C	7	1341; 1420; 1466; 1574; 3668; 4842; 5552
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	5	1132; 1231; 1591; 1996; 5466
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	1200; 4993; 5438
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1563; 4383
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	6	1120; 1867; 2839; 3023; 4623; 5055
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	5853
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	869; 3957; 5589
Eco88I	C!YCGRG	2	1334; 2552
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	2	340; 2578
Eco130I	C!CWWGG	6	360; 611; 4206; 4299; 4909; 5314
Eco147I	AGG!CCT	2	1039; 4298
EcoHI	!CCSGG	6	834; 1182; 4479; 4639; 5252; 6016
EcoICRI	GAG!CTC	3	1339; 1464; 1572
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	10	1120; 1528; 1867; 2161; 2839; 3023; 3053; 4623; 5055; 5317
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	4	928; 1423; 5260; 5853
EcoNI	CCTNN!NNNAGG	1	1954
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	5575
EcoRI	G!AATC	0	
EcoRII	!CCWGG	19	88; 281; 785; 929; 944; 1073; 1439; 1505; 2215; 2456; 4011; 4066; 4083; 4862; 5441; 5544; 6234; 6247; 6368
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 611; 4206; 4299; 4909; 5314
EcoT22I	ATGCA!T	3	4049; 4121; 6452
EcoT38I	GRGCY!C	7	1341; 1420; 1466; 1574; 3668; 4842; 5552
Eco53kI	GAG!CTC	3	1339; 1464; 1572
EgeI	GGC!GCC	2	1740; 4478
EheI	GGC!GCC	2	1740; 4478
ErhI	C!CWWGG	6	360; 611; 4206; 4299; 4909; 5314
EsaBC3I	TC!GA	22	753; 780; 1248; 1336; 1349; 1491; 1629; 1665; 1756; 1781; 2682; 3627; 4318; 4591; 4747; 4771; 4807; 4969; 5160; 5205; 5460; 6298
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	2	1042; 1504
FaeI	CATG!	33	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1983; 2020; 2092; 2110; 2158; 2244; 2300; 2364; 2466; 3907; 4047; 4119; 4210; 4351; 4696; 4882; 4913; 4939; 5295; 5679; 6399; 6450
FaiI	YA!TR	83	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 640; 646; 658; 736; 802; 882; 900; 1086; 1093; 1146; 1712; 1763; 1981; 1985; 2018; 2063; 2090; 2108; 2129; 2156; 2242; 2298; 2362; 2429; 2464; 2795; 2801; 2813; 2938; 2998; 3106; 3139; 3149; 3215; 3260; 3465; 3893; 3905; 4036; 4045; 4108; 4117; 4141; 4208; 4232; 4349; 4413; 4694; 4719; 4880; 4911; 4937; 5009; 5225; 5293; 5371; 5423; 5584; 5601; 5603; 5605; 5677; 5955; 6144; 6260; 6333; 6397; 6448
FaiI	AAGNNNNNCTNNNNNNNNNNNN!	3	879; 2549; 4817
FaiI	!NNNNNNNNAAGNNNNNCTT	3	847; 2517; 4785
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4628; 5160; 5269
FaqI	!NNNNNNNNNNNNNGTCCC	4	3993; 4065; 4129; 5424
FatI	!CATG	33	300; 360; 611; 638; 644; 656; 734; 800; 880; 1084; 1091; 1979; 2016; 2088; 2106; 2154; 2240; 2296; 2360; 2462; 3903; 4043; 4115; 4206; 4347; 4692; 4878; 4909; 4935; 5291; 5675; 6395; 6446
FauI	CCCGCNNNN!	11	93; 119; 286; 1068; 1170; 1648; 3799; 4154; 4175; 5371; 5503
FauI	!NNNNNNNGCGGG	6	1105; 3730; 4600; 5137; 5275; 5422
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	2	2762; 3134
FblI	GT!MKAC	1	1190
FmuI	GGNC!C	15	86; 279; 763; 1006; 1098; 1119; 1203; 1402; 1641; 3587; 4996; 5441; 5487; 5545; 5578

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	54	759; 810; 954; 1071; 1252; 1372; 1375; 1386; 1389; 1398; 1411; 1435; 1456; 1503; 1531; 1534; 1563; 1657; 1699; 1769; 1790; 1886; 2238; 2410; 2849; 3029; 3254; 3773; 3795; 3809; 4247; 4386; 4438; 4449; 4539; 4544; 4581; 4622; 4709; 4712; 4715; 4951; 5047; 5088; 5102; 5216; 5555; 5570; 5781; 5987; 5990; 6055; 6198; 6353
FokI	GGATGNNNNNNNNNN!	5	1392; 4344; 4801; 4826; 5280
FokI	!NNNNNNNNNNNNNNNNNNNNCATCC	7	681; 769; 826; 2247; 2544; 3069; 4150
FriOI	GRGCY!C	7	1341; 1420; 1466; 1574; 3668; 4842; 5552
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	2	1501; 4579
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	10	592; 2291; 2585; 3125; 3326; 3744; 4300; 5315; 5649; 5902
FspEI	CCNNNNNNNNNNNNNN!	195	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 656; 681; 711; 728; 742; 775; 789; 807; 831; 845; 876; 909; 936; 951; 970; 1006; 1053; 1072; 1087; 1110; 1132; 1147; 1167; 1186; 1216; 1242; 1284; 1335; 1377; 1402; 1416; 1432; 1453; 1486; 1519; 1579; 1594; 1614; 1653; 1708; 1755; 1875; 1890; 1963; 2019; 2097; 2127; 2167; 2187; 2229; 2251; 2269; 2469; 2537; 2551; 2565; 2667; 2725; 2756; 2817; 2842; 2883; 2899; 2914; 3009; 3073; 3087; 3129; 3160; 3199; 3213; 3354; 3449; 3473; 3496; 3519; 3537; 3559; 3580; 3599; 3618; 3647; 3668; 3682; 3708; 3796; 3822; 3871; 3912; 3930; 3969; 3985; 4023; 4080; 4095; 4152; 4172; 4186; 4203; 4217; 4254; 4269; 4312; 4395; 4462; 4493; 4513; 4528; 4573; 4587; 4653; 4667; 4686; 4702; 4743; 4763; 4810; 4860; 4876; 4896; 4921; 4941; 4964; 4991; 5009; 5035; 5075; 5101; 5125; 5181; 5195; 5223; 5266; 5287; 5322; 5366; 5454; 5478; 5500; 5520; 5536; 5557; 5571; 5590; 5674; 5694; 5722; 5737; 5771; 5813; 5840; 5855; 5900; 5924; 5938; 5960; 5986; 6006; 6030; 6056; 6104; 6123; 6142; 6168; 6203; 6248; 6278; 6292; 6343; 6357; 6382; 6398; 6419; 6448
FspEI	!NNNNNNNNNNNNNNNNNGG	177	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 616; 643; 685; 706; 730; 772; 791; 820; 856; 893; 916; 935; 958; 986; 1013; 1052; 1078; 1097; 1169; 1195; 1243; 1268; 1286; 1307; 1336; 1362; 1382; 1419; 1458; 1480; 1498; 1522; 1540; 1562; 1591; 1621; 1654; 1705; 1793; 1813; 1834; 1852; 1915; 1942; 1975; 1995; 2014; 2059; 2106; 2125; 2202; 2287; 2308; 2371; 2443; 2466; 2493; 2573; 2596; 2651; 2684; 2719; 2739; 2759; 2806; 2829; 2877; 2895; 2917; 2938; 2995; 3017; 3052; 3094; 3148; 3248; 3317; 3425; 3474; 3496; 3524; 3560; 3605; 3634; 3670; 3689; 3717; 3737; 3800; 3823; 3931; 3963; 3981; 4010; 4053; 4082; 4193; 4222; 4265; 4286; 4314; 4347; 4367; 4392; 4419; 4444; 4466; 4494; 4520; 4541; 4592; 4613; 4631; 4679; 4715; 4771; 4796; 4820; 4849; 4872; 4896; 4922; 4944; 4963; 4988; 5028; 5064; 5129; 5214; 5238; 5267; 5301; 5322; 5342; 5387; 5414; 5433; 5466; 5518; 5549; 5576; 5628; 5726; 5797; 5842; 5903; 5968; 6002; 6028; 6046; 6082; 6152; 6175; 6197; 6221; 6254; 6302; 6337; 6355; 6412
Fsp4HI	GC!NGC	54	759; 810; 954; 1071; 1252; 1372; 1375; 1386; 1389; 1398; 1411; 1435; 1456; 1503; 1531; 1534; 1563; 1657; 1699; 1769; 1790; 1886; 2238; 2410; 2849; 3029; 3254; 3773; 3795; 3809; 4247; 4386; 4438; 4449; 4539; 4544; 4581; 4622; 4709; 4712; 4715; 4951; 5047; 5088; 5102; 5216; 5555; 5570; 5781; 5987; 5990; 6055; 6198; 6353
GdiII	C!GGCCR	2	1563; 4383
GdiII	Y!GGCCG	5	1563; 1607; 4383; 4948; 4975
GlaI	GC!GC	40	596; 1083; 1290; 1392; 1426; 1459; 1501; 1524; 1526; 1549; 1561; 1589; 1616; 1623; 1625; 1648; 1650; 1740; 2026; 2078; 3742; 3750; 3776; 3798; 3807; 3820; 3851; 4470; 4478; 4542; 4579; 4845; 5105; 5281; 5367; 5770; 5879; 6053; 6153; 6220
GluI	GC!NGC	54	759; 810; 954; 1071; 1252; 1372; 1375; 1386; 1389; 1398; 1411; 1435; 1456; 1503; 1531; 1534; 1563; 1657; 1699; 1769; 1790; 1886; 2238; 2410; 2849; 3029; 3254; 3773; 3795; 3809; 4247; 4386; 4438; 4449; 4539; 4544; 4581; 4622; 4709; 4712; 4715; 4951; 5047; 5088; 5102; 5216; 5555; 5570; 5781; 5987; 5990; 6055; 6198; 6353
GsaI	CCCAG!C	5	997; 2268; 4024; 4096; 6095
GsaI	GCTGG!G	4	1035; 1672; 2757; 4985
GsuI	CTGGAGNNNNNNNNNNNNNNNNNNNN!	4	1528; 2161; 3053; 5317

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GsuI	!NNNNNNNNNNNNNNCTCCAG	3	928; 1423; 5260
HaeI	WGG!CCW	8	1039; 1270; 2828; 4298; 4559; 5921; 6373; 6384
HaeII	RGCGC!Y	8	598; 1292; 1591; 1742; 3744; 3752; 4480; 6155
HaeIII	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1400; 1565; 1580; 1609; 1639; 2828; 3443; 3585; 4240; 4246; 4255; 4298; 4385; 4559; 4950; 4977; 5486; 5543; 5576; 5921; 6355; 6373; 6384
HaeIV	GAYNNNNRRTCNNNNNNNNNNNN!	2	3152; 4673
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	3118; 4639
HaeIV	GAYNNNNRRTCNNNNNNNNNNNN!	2	3151; 4672
HaeIV	!NNNNNNNGAYNNNNNRTC	2	3120; 4641
HapII	C!CGG	23	601; 835; 1184; 1322; 1473; 1577; 3119; 3695; 4382; 4459; 4481; 4509; 4640; 4730; 4797; 4978; 5253; 5261; 5353; 5827; 6017; 6043; 6190
HgaI	GACGCNNNNN!	4	526; 1621; 5187; 5266
HgaI	!NNNNNNNNNNGCGTC	5	1176; 2038; 3810; 5705; 6283
HhaI	GCG!C	40	597; 1084; 1291; 1393; 1427; 1460; 1502; 1525; 1527; 1550; 1562; 1590; 1617; 1624; 1626; 1649; 1651; 1741; 2027; 2079; 3743; 3751; 3777; 3799; 3808; 3821; 3852; 4471; 4479; 4543; 4580; 4846; 5106; 5282; 5368; 5771; 5880; 6054; 6154; 6221
HinI	GR!CGYC	10	122; 175; 258; 444; 1187; 1739; 2049; 4477; 5179; 5258
HinIII	CATG!	33	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1983; 2020; 2092; 2110; 2158; 2244; 2300; 2364; 2466; 3907; 4047; 4119; 4210; 4351; 4696; 4882; 4913; 4939; 5295; 5679; 6399; 6450
Hin4I	GAYNNNNVTCNNNNNNNNNNNN!	3	1642; 3151; 4672
Hin4I	!NNNNNNNNGABNNNNNRTC	3	3119; 4640; 4670
Hin4I	GABNNNNRRTCNNNNNNNNNNNN!	3	3151; 4672; 4702
Hin4I	!NNNNNNNNGAYNNNNNVTC	3	1610; 3119; 4640
Hin6I	G!CGC	40	595; 1082; 1289; 1391; 1425; 1458; 1500; 1523; 1525; 1548; 1560; 1588; 1615; 1622; 1624; 1647; 1649; 1739; 2025; 2077; 3741; 3749; 3775; 3797; 3806; 3819; 3850; 4469; 4477; 4541; 4578; 4844; 5104; 5280; 5366; 5769; 5878; 6052; 6152; 6219
HinP1I	G!CGC	40	595; 1082; 1289; 1391; 1425; 1458; 1500; 1523; 1525; 1548; 1560; 1588; 1615; 1622; 1624; 1647; 1649; 1739; 2025; 2077; 3741; 3749; 3775; 3797; 3806; 3819; 3850; 4469; 4477; 4541; 4578; 4844; 5104; 5280; 5366; 5769; 5878; 6052; 6152; 6219
HincII	GTY!RAC	2	2208; 3240
HindII	GTY!RAC	2	2208; 3240
HindIII	A!AGCTT	2	1343; 1750
HinfI	G!ANTC	21	410; 740; 890; 1217; 1325; 1723; 1935; 2041; 2287; 2310; 2617; 3520; 3542; 3952; 4962; 5096; 5148; 5206; 5243; 6025; 6421
HpaI	GTT!AAC	1	3240
HpaII	C!CGG	23	601; 835; 1184; 1322; 1473; 1577; 3119; 3695; 4382; 4459; 4481; 4509; 4640; 4730; 4797; 4978; 5253; 5261; 5353; 5827; 6017; 6043; 6190
HphI	GGTGANNNNNNNN!	8	376; 627; 996; 1306; 1551; 1822; 5548; 5664
HphI	!NNNNNNNTCACC	4	885; 1566; 3594; 4655
Hpy8I	GTN!NAC	16	201; 539; 577; 672; 692; 987; 1191; 1200; 1485; 2208; 2575; 3240; 3524; 3541; 3596; 6083
Hpy99I	CGWCG!	14	754; 1234; 1249; 1615; 1622; 1633; 2360; 4567; 4595; 4889; 4904; 5181; 5566; 6299
Hpy166II	GTN!NAC	16	201; 539; 577; 672; 692; 987; 1191; 1200; 1485; 2208; 2575; 3240; 3524; 3541; 3596; 6083
Hpy188I	TCN!GA	21	585; 699; 1330; 1728; 1847; 1856; 1946; 2187; 2622; 2730; 2767; 3651; 4260; 4444; 4788; 5141; 5242; 5721; 5855; 6208; 6286
Hpy188III	TC!NNGA	31	1176; 1322; 1334; 1756; 2089; 2291; 2314; 2440; 2552; 2807; 2892; 3125; 3904; 3956; 4269; 4322; 4495; 4811; 4820; 4903; 4959; 5003; 5093; 5126; 5195; 5676; 5750; 5833; 5931; 6029; 6163
HpyAV	CCTTCNNNNNN!	8	780; 828; 873; 2095; 2540; 5122; 5229; 5908
HpyAV	!NNNNNGAAGG	16	700; 1072; 1440; 1713; 1842; 2003; 2488; 2814; 2925; 3710; 4605; 5334; 5350; 5533; 5850; 6160
HpyCH4III	ACN!GT	21	76; 198; 269; 543; 581; 669; 1898; 2180; 2205; 2212; 2547; 2835; 2982; 3568; 4857; 4973; 5081; 5404; 5895; 6365; 6436
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 2577; 3537; 3549; 3592; 3702; 4593; 4780; 5561; 5694

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HpyCH4V	TG!CA	30	692; 1014; 1130; 1530; 1536; 1659; 1679; 1789; 1804; 1885; 2409; 2678; 2851; 3100; 3226; 3253; 3321; 4038; 4047; 4110; 4119; 4234; 4310; 4369; 4528; 4703; 4717; 5787; 6083; 6450
HpyF3I	C!TNAG	15	869; 1327; 1414; 1715; 1878; 1955; 2490; 2658; 2951; 3957; 4259; 5140; 5589; 5712; 6121
HpyF10VI	GCNNNNN!NNGC	40	90; 212; 244; 283; 376; 400; 648; 1079; 1351; 1394; 1424; 1461; 1533; 1621; 1653; 1665; 1795; 1879; 2022; 2415; 2854; 3704; 3734; 3761; 3803; 4044; 4116; 4167; 4246; 4468; 4552; 4575; 4714; 4837; 4920; 5187; 5374; 5578; 5777; 6349
Hsp92I	GR!CGYC	10	122; 175; 258; 444; 1187; 1739; 2049; 4477; 5179; 5258
Hsp92II	CATG!	33	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1983; 2020; 2092; 2110; 2158; 2244; 2300; 2364; 2466; 3907; 4047; 4119; 4210; 4351; 4696; 4882; 4913; 4939; 5295; 5679; 6399; 6450
HspAI	G!CGC	40	595; 1082; 1289; 1391; 1425; 1458; 1500; 1523; 1525; 1548; 1560; 1588; 1615; 1622; 1624; 1647; 1649; 1739; 2025; 2077; 3741; 3749; 3775; 3797; 3806; 3819; 3850; 4469; 4477; 4541; 4578; 4844; 5104; 5280; 5366; 5769; 5878; 6052; 6152; 6219
KasI	G!GCGCC	2	1738; 4476
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1321
KspI	CCGC!GG	1	1378
Ksp22I	T!GATCA	2	2762; 3134
KspAI	GTT!AAC	1	3240
Kzo9I	!GATC	31	585; 1124; 1150; 1330; 1661; 1728; 1745; 1842; 1851; 2400; 2736; 2762; 3112; 3121; 3134; 4314; 4318; 4337; 4648; 4726; 4807; 4816; 4894; 5270; 5286; 5645; 5657; 5735; 5743; 5754; 5829
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	4821; 5031
LpnI	RG!GCGY	8	596; 1290; 1589; 1740; 3742; 3750; 4478; 6153
LpnPI	CCDGNNNNNNNNNN!	78	102; 295; 614; 742; 799; 848; 881; 943; 958; 1007; 1087; 1111; 1135; 1197; 1284; 1335; 1441; 1486; 1519; 1590; 1708; 1756; 1876; 2019; 2187; 2229; 2278; 2470; 2842; 2883; 2914; 3014; 3076; 3132; 3214; 3519; 3708; 3931; 3969; 3985; 4025; 4080; 4097; 4197; 4282; 4395; 4472; 4494; 4517; 4653; 4667; 4686; 4743; 4810; 4860; 4876; 4933; 4991; 5200; 5266; 5290; 5366; 5455; 5558; 5591; 5822; 5840; 5986; 6006; 6030; 6056; 6105; 6203; 6248; 6278; 6357; 6382; 6419
LpnPI	!NNNNNNNNNNNNNNCHGG	79	75; 268; 552; 586; 772; 820; 916; 1017; 1060; 1169; 1195; 1268; 1307; 1379; 1426; 1458; 1492; 1522; 1562; 1591; 1654; 2030; 2059; 2125; 2202; 2443; 2466; 2651; 2719; 2739; 2810; 2843; 2877; 2903; 2938; 3017; 3052; 3104; 3560; 3680; 3737; 3800; 3998; 4010; 4070; 4082; 4314; 4359; 4402; 4444; 4466; 4494; 4541; 4603; 4625; 4715; 4782; 4805; 4849; 4944; 4963; 4988; 5137; 5238; 5281; 5338; 5428; 5531; 5558; 5576; 5812; 5849; 6002; 6028; 6168; 6186; 6221; 6302; 6355
Lsp1109I	GCAGCNNNNNNNN!	16	821; 1263; 1397; 1514; 1542; 1780; 1801; 1897; 2421; 3040; 3265; 4550; 4592; 5113; 5566; 6066
Lsp1109I	!NNNNNNNNNNNGCTGC	13	940; 1442; 1514; 1643; 1685; 1869; 2835; 3759; 4424; 4608; 4701; 5767; 5973
LweI	GCATCNNNNN!	11	848; 2566; 2651; 2687; 3091; 3293; 4056; 4128; 4776; 4840; 5115
LweI	!NNNNNNNNNGATGC	9	357; 1001; 1169; 1776; 2100; 4435; 4690; 4906; 6298
MabI	A!CCWGGT	1	4066
MaeI	C!TAG	10	592; 2291; 2585; 3125; 3326; 3744; 4300; 5315; 5649; 5902
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 2577; 3537; 3549; 3592; 3702; 4593; 4780; 5561; 5694
MaeIII	!GTNAC	19	61; 148; 497; 891; 1087; 1539; 1810; 2541; 2835; 2862; 3265; 3766; 3778; 4597; 4903; 5593; 5859; 5975; 6038
MalI	GA!TC	31	587; 1126; 1152; 1332; 1663; 1730; 1747; 1844; 1853; 2402; 2738; 2764; 3114; 3123; 3136; 4316; 4320; 4339; 4650; 4728; 4809; 4818; 4896; 5272; 5288; 5647; 5659; 5737; 5745; 5756; 5831
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3901; 5090

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MbiI	GAG!CGG	2	3737; 5144
MboI	!GATC	31	585; 1124; 1150; 1330; 1661; 1728; 1745; 1842; 1851; 2400; 2736; 2762; 3112; 3121; 3134; 4314; 4318; 4337; 4648; 4726; 4807; 4816; 4894; 5270; 5286; 5645; 5657; 5735; 5743; 5754; 5829
MboII	GAAGANNNNNNNN!	19	916; 1029; 1999; 2233; 2512; 2610; 2626; 2695; 2730; 2907; 2935; 3016; 3034; 3061; 3733; 3961; 4838; 5048; 5667
MboII	!NNNNNNNTCTTC	5	2525; 5128; 5295; 5495; 5738
McaTI	GCGC!GC	3	1526; 1625; 1650
MfeI	C!AATTG	1	3227
MfII	R!GATCY	13	585; 1150; 1330; 1842; 3112; 3121; 4648; 4894; 5286; 5645; 5657; 5743; 5754
MhII	GDGCH!C	16	667; 694; 727; 1341; 1420; 1466; 1574; 2917; 3668; 4423; 4516; 4590; 4780; 4842; 5552; 6085
MIsI	TGG!CCA	2	1270; 4559
MluI	A!CGCGT	1	3363
MluNI	TGG!CCA	2	1270; 4559
MlyI	GAGTCNNNNN!	4	899; 2296; 3529; 3961
MlyI	!NNNNNGACTC	5	404; 1319; 3536; 5142; 6019
Mly113I	GG!CGCC	2	1739; 4477
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	3570
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	3	1847; 6002; 6186
MnII	CCTCNNNNNNN!	20	773; 842; 952; 967; 1050; 1183; 1591; 1714; 1884; 2571; 2667; 2814; 2896; 3196; 4260; 5078; 5284; 5598; 5968; 6292
MnII	!NNNNNGAGG	42	541; 654; 693; 714; 747; 864; 973; 1029; 1218; 1251; 1294; 1306; 1443; 1545; 1821; 1833; 1950; 1983; 2028; 2114; 2127; 2316; 2501; 2581; 2594; 2616; 2743; 2952; 3003; 3039; 3156; 3621; 3952; 4230; 4273; 4288; 4328; 4392; 4528; 4885; 5315; 6218
Mph1103I	ATGCA!T	3	4049; 4121; 6452
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1321
MroNI	G!CCGGC	3	3694; 4977; 5260
MroXI	GAANN!NNTTC	2	2309; 2435
MscI	TGG!CCA	2	1270; 4559
MseI	T!TAA	21	7; 629; 854; 1733; 1919; 1997; 2987; 3178; 3239; 3360; 3381; 3392; 3404; 3415; 3432; 3530; 3801; 5620; 5634; 5639; 5691
MsiI	CAYNN!NNRTG	4	365; 613; 643; 4914
MspI	C!CGG	23	601; 835; 1184; 1322; 1473; 1577; 3119; 3695; 4382; 4459; 4481; 4509; 4640; 4730; 4797; 4978; 5253; 5261; 5353; 5827; 6017; 6043; 6190
Msp20I	TGG!CCA	2	1270; 4559
MspA1I	CMG!CKG	11	1063; 1377; 1413; 1533; 1698; 2418; 3031; 3975; 4583; 5812; 6057
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	327	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 613; 633; 651; 669; 699; 717; 732; 747; 765; 798; 813; 837; 856; 880; 893; 909; 927; 941; 957; 970; 984; 1005; 1018; 1039; 1058; 1072; 1086; 1104; 1117; 1134; 1147; 1161; 1174; 1188; 1209; 1222; 1241; 1260; 1283; 1304; 1334; 1348; 1378; 1402; 1419; 1432; 1445; 1471; 1485; 1506; 1519; 1536; 1549; 1563; 1579; 1594; 1608; 1622; 1635; 1652; 1665; 1681; 1697; 1717; 1739; 1754; 1768; 1786; 1807; 1827; 1858; 1874; 1890; 1916; 1930; 1957; 1974; 1992; 2013; 2029; 2057; 2082; 2101; 2119; 2152; 2167; 2186; 2228; 2251; 2276; 2293; 2309; 2326; 2340; 2366; 2381; 2402; 2416; 2431; 2452; 2469; 2489; 2502; 2536; 2549; 2564; 2581; 2597; 2633; 2660; 2678; 2694; 2727; 2741; 2755; 2778; 2793; 2817; 2830; 2864; 2877; 2890; 2904; 2919; 2934; 2963; 2981; 3009; 3044; 3075; 3088; 3131; 3145; 3160; 3184; 3201; 3214; 3255; 3269; 3282; 3300; 3338; 3353; 3371; 3412; 3436; 3456; 3474; 3495; 3518; 3550; 3565; 3587; 3605; 3618; 3639; 3656; 3669; 3682; 3698; 3711; 3741; 3756; 3781; 3799; 3812; 3827; 3851; 3865; 3889; 3914; 3930; 3968; 3984; 4023; 4037; 4051; 4079; 4095; 4109; 4123; 4152; 4165; 4186; 4195; 4217; 4247; 4263; 4281; 4311; 4334; 4358; 4382; 4401; 4429; 4455; 4471; 4484; 4507; 4521; 4541; 4554; 4568; 4587; 4601; 4614; 4630; 4645; 4658; 4674; 4689; 4705; 4730; 4749; 4765; 4778; 4791; 4809; 4823; 4837; 4853; 4875; 4891; 4910; 4932; 4948; 4971; 4990; 5004; 5020; 5034; 5054; 5070; 5083; 5105; 5138; 5152; 5172; 5185; 5199; 5253; 5266; 5289; 5302; 5321; 5338; 5365; 5401; 5434; 5453; 5478; 5499; 5526; 5539; 5556; 5570; 5585; 5601; 5661; 5686; 5702; 5724; 5737; 5751; 5782; 5796; 5821; 5839; 5854; 5867; 5886; 5899; 5914; 5943; 5962; 5980; 6005; 6020; 6039; 6055; 6074; 6092; 6108; 6122; 6141; 6168; 6191; 6213; 6232; 6247; 6260; 6277; 6297; 6324; 6337; 6356; 6381; 6404; 6418; 6431; 6448
MspJI	!NNNNNNNNNNNNYNG	270	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 598; 616; 643; 673; 697; 715; 739; 758; 780; 811; 830; 854; 887; 916; 958; 980; 1013; 1033; 1060; 1078; 1095; 1113; 1141; 1162; 1183; 1207; 1229; 1252; 1269; 1307; 1328; 1345; 1362; 1380; 1401; 1419; 1443; 1463; 1480; 1510; 1535; 1553; 1570; 1588; 1607; 1626; 1651; 1676; 1697; 1729; 1748; 1765; 1793; 1811; 1831; 1849; 1886; 1915; 1942; 1966; 1987; 2010; 2030; 2048; 2066; 2093; 2116; 2141; 2160; 2202; 2227; 2251; 2277; 2300; 2318; 2340; 2382; 2414; 2438; 2457; 2477; 2511; 2538; 2562; 2596; 2613; 2639; 2661; 2686; 2714; 2733; 2751; 2771; 2793; 2811; 2829; 2856; 2877; 2895; 2914; 2938; 2987; 3018; 3049; 3083; 3105; 3129; 3158; 3187; 3229; 3312; 3350; 3374; 3397; 3426; 3470; 3492; 3524; 3560; 3577; 3598; 3635; 3655; 3672; 3689; 3724; 3742; 3760; 3777; 3801; 3823; 3850; 3878; 3904; 3942; 3963; 3980; 3998; 4021; 4042; 4070; 4093; 4114; 4132; 4153; 4170; 4193; 4217; 4237; 4255; 4277; 4308; 4330; 4356; 4375; 4392; 4420; 4439; 4458; 4476; 4494; 4515; 4537; 4561; 4594; 4614; 4632; 4653; 4679; 4706; 4723; 4740; 4757; 4783; 4805; 4827; 4845; 4865; 4884; 4906; 4944; 4964; 4988; 5008; 5028; 5055; 5079; 5112; 5131; 5159; 5181; 5210; 5238; 5263; 5282; 5301; 5322; 5339; 5356; 5387; 5414; 5434; 5457; 5477; 5514; 5531; 5550; 5576; 5596; 5635; 5662; 5681; 5699; 5736; 5754; 5795; 5813; 5839; 5856; 5888; 5917; 5945; 5966; 5989; 6008; 6029; 6047; 6064; 6082; 6108; 6129; 6149; 6169; 6187; 6208; 6234; 6251; 6270; 6289; 6318; 6337; 6355; 6374; 6392; 6410; 6433
MspR9I	CC!NGG	25	90; 283; 787; 836; 931; 946; 1075; 1184; 1441; 1507; 2217; 2458; 4013; 4068; 4085; 4481; 4641; 4864; 5254; 5443; 5546; 6018; 6236; 6249; 6370
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	3227
MvaI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1441; 1507; 2217; 2458; 4013; 4068; 4085; 4864; 5443; 5546; 6236; 6249; 6370
Mva1269I	GAATGCN!	2	2175; 3228
Mva1269I	G!CATTC	1	3321
MvnI	CG!CG	30	60; 1377; 1391; 1425; 1434; 1460; 1525; 1550; 1562; 1615; 1617; 1622; 1624; 1643; 1649; 2025; 3365; 3401; 3777; 3797; 3821; 3852; 4543; 4844; 5282; 5366; 5429; 5498; 5771; 6352
MvrI	CGAT!CG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MwoI	GCNNNNN!NNGC	40	90; 212; 244; 283; 376; 400; 648; 1079; 1351; 1394; 1424; 1461; 1533; 1621; 1653; 1665; 1795; 1879; 2022; 2415; 2854; 3704; 3734; 3761; 3803; 4044; 4116; 4167; 4246; 4468; 4552; 4575; 4714; 4837; 4920; 5187; 5374; 5578; 5777; 6349
NaeI	GCC!GGC	3	3696; 4979; 5262
NarI	GG!CGCC	2	1739; 4477
NciI	CC!SGG	6	836; 1184; 4481; 4641; 5254; 6018
NcoI	C!CATGG	4	360; 611; 4206; 4909
NdeI	CA!TATG	1	234
NdeII	!GATC	31	585; 1124; 1150; 1330; 1661; 1728; 1745; 1842; 1851; 2400; 2736; 2762; 3112; 3121; 3134; 4314; 4318; 4337; 4648; 4726; 4807; 4816; 4894; 5270; 5286; 5645; 5657; 5735; 5743; 5754; 5829
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	731
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	767
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	3694; 4977; 5260
NheI	G!CTAGC	1	591
NlaIII	CATG!	33	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1983; 2020; 2092; 2110; 2158; 2244; 2300; 2364; 2466; 3907; 4047; 4119; 4210; 4351; 4696; 4882; 4913; 4939; 5295; 5679; 6399; 6450
NlaIV	GGN!NCC	23	467; 666; 726; 1117; 1320; 1401; 1438; 1740; 3072; 3114; 3632; 3653; 3665; 3856; 4017; 4089; 4478; 4513; 5361; 5440; 5485; 6328; 6367
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	3309; 3624; 5216
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 991; 1277; 6288
Nli3877I	CYCGR!G	2	1338; 2556
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	4266; 4702
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1007; 4231
NmeDI	RCCGGYNNNNNNNN!	7	612; 1484; 1588; 3706; 4808; 4989; 5272
NmeDI	!NNNNNNNNNNNNRCCGGY	7	587; 1459; 1563; 3681; 4783; 4964; 5247
NmuCI	!GTSAC	9	891; 1087; 1539; 1810; 2541; 2862; 3766; 4597; 4903
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	2	1501; 4579
NsiI	ATGCA!T	3	4049; 4121; 6452
NspI	RCATG!Y	9	642; 1088; 1983; 2300; 2364; 4047; 4119; 4882; 6399
NspV	TT!CGAA	2	1780; 5159
OliI	CACNN!NNGTG	1	613
PabI	GTA!C	15	220; 245; 300; 333; 384; 541; 656; 806; 1058; 1487; 2069; 2577; 2581; 2980; 4784
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	2364; 4047; 4119; 4882
PaeR7I	C!TCGAG	1	1334
PagI	T!CATGA	3	2088; 3903; 5675
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	5442; 5545
PauI	G!CGCGC	3	1523; 1622; 1647
PceI	AGG!CCT	2	1039; 4298
PciI	A!CATGT	1	6395
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	4821; 5031
PcsI	WCGNNNN!NNNCGW	8	1253; 2574; 4771; 4848; 5091; 5165; 5558; 6076
PctI	GAATGCN!	2	2175; 3228
PctI	G!CATTC	1	3321
PdiI	GCC!GGC	3	3696; 4979; 5262
PdmI	GAANN!NNTTC	2	2309; 2435
PfeI	G!AWTC	12	740; 1217; 1723; 1935; 2041; 2310; 2617; 4962; 5096; 5206; 5243; 6421
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	4595
PfIMI	CCANNNN!NTGG	1	1209
PfoI	T!CCNGGA	3	944; 1439; 5252

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PhoI	GG!CC	33	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1400; 1565; 1580; 1609; 1639; 2828; 3443; 3585; 4240; 4246; 4255; 4298; 4385; 4559; 4950; 4977; 5486; 5543; 5576; 5921; 6355; 6373; 6384
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	3	2209; 2809; 4858
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	2207; 4423; 4678
PleI	GAGTCNNNN!	4	898; 2295; 3528; 3960
PleI	!NNNNNGACTC	5	404; 1319; 3536; 5142; 6019
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNNCTCNNNNNNNNNNNN!	2	2922; 3559
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	5689
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	5721
PpiI	!NNNNNNNGAACNNNNNNCTC	2	2890; 3527
PpsI	GAGTCNNNN!	4	898; 2295; 3528; 3960
PpsI	!NNNNNGACTC	5	404; 1319; 3536; 5142; 6019
Ppu10I	A!TGCAT	3	4045; 4117; 6448
Ppu21I	YAC!GTR	4	340; 2578; 3593; 4781
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	6395
PshAI	GACNN!NNGTC	1	1243
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	3	2795; 3260; 3465
Psp03I	GGWC!C	3	1203; 4996; 5441
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	19	88; 281; 785; 929; 944; 1073; 1439; 1505; 2215; 2456; 4011; 4066; 4083; 4862; 5441; 5544; 6234; 6247; 6368
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	3	1341; 1466; 1574
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	19	88; 281; 785; 929; 944; 1073; 1439; 1505; 2215; 2456; 4011; 4066; 4083; 4862; 5441; 5544; 6234; 6247; 6368
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	23	467; 666; 726; 1117; 1320; 1401; 1438; 1740; 3072; 3114; 3632; 3653; 3665; 3856; 4017; 4089; 4478; 4513; 5361; 5440; 5485; 6328; 6367
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	4	125; 1766; 4207; 5206
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	2	2026; 4609
PspPI	G!GNCC	15	83; 276; 760; 1003; 1095; 1116; 1200; 1399; 1638; 3584; 4993; 5438; 5484; 5542; 5575
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	4	2677; 4030; 4102; 5608
PspPRI	!NNNNNNNNNNNNNNNNNNCTGRGG	4	855; 1941; 3943; 5138
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	5578
PstI	CTGCA!G	4	1532; 1538; 1661; 1887
PstNI	CAGNNN!CTG	3	2665; 5578; 5986
PsuI	R!GATCY	13	585; 1150; 1330; 1842; 3112; 3121; 4648; 4894; 5286; 5645; 5657; 5743; 5754
PsyI	GACN!NNGTC	1	4595
PteI	G!CGCGC	3	1523; 1622; 1647
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	6	1533; 1698; 2418; 3031; 3975; 4583
RcaI	T!CATGA	3	2088; 3903; 5675
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	2	1514; 4992
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RgiI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNN!	1	3206
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	15	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1486; 2068; 2576; 2580; 2979; 4783
RsaNI	G!TAC	15	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1485; 2067; 2575; 2579; 2978; 4782
RseI	CAYNN!NNRTG	4	365; 613; 643; 4914
RsrII	CG!GWCCG	1	4993
Rsr2I	CG!GWCCG	1	4993
SacI	GAGCT!C	3	1341; 1466; 1574
SacII	CCGC!GG	1	1378
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	4821; 5031
SaqAI	T!TAA	21	7; 629; 854; 1733; 1919; 1997; 2987; 3178; 3239; 3360; 3381; 3392; 3404; 3415; 3432; 3530; 3801; 5620; 5634; 5639; 5691
SatI	GC!NGC	54	759; 810; 954; 1071; 1252; 1372; 1375; 1386; 1389; 1398; 1411; 1435; 1456; 1503; 1531; 1534; 1563; 1657; 1699; 1769; 1790; 1886; 2238; 2410; 2849; 3029; 3254; 3773; 3795; 3809; 4247; 4386; 4438; 4449; 4539; 4544; 4581; 4622; 4709; 4712; 4715; 4951; 5047; 5088; 5102; 5216; 5555; 5570; 5781; 5987; 5990; 6055; 6198; 6353
Sau96I	G!GNCC	15	83; 276; 760; 1003; 1095; 1116; 1200; 1399; 1638; 3584; 4993; 5438; 5484; 5542; 5575
Sau3AI	!GATC	31	585; 1124; 1150; 1330; 1661; 1728; 1745; 1842; 1851; 2400; 2736; 2762; 3112; 3121; 3134; 4314; 4318; 4337; 4648; 4726; 4807; 4816; 4894; 5270; 5286; 5645; 5657; 5735; 5743; 5754; 5829
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	899; 2296; 3529; 3961
SchI	!NNNNNGACTC	5	404; 1319; 3536; 5142; 6019
SciI	CTC!GAG	1	1336
ScrFI	CC!NGG	25	90; 283; 787; 836; 931; 946; 1075; 1184; 1441; 1507; 2217; 2458; 4013; 4068; 4085; 4481; 4641; 4864; 5254; 5443; 5546; 6018; 6236; 6249; 6370
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	7	1041; 1467; 2033; 4055; 4127; 4296; 6238
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	2706; 4632; 5117
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	16	667; 694; 727; 1341; 1420; 1466; 1574; 2917; 3668; 4423; 4516; 4590; 4780; 4842; 5552; 6085
SelI	!CGCG	30	58; 1375; 1389; 1423; 1432; 1458; 1523; 1548; 1560; 1613; 1615; 1620; 1622; 1641; 1647; 2023; 3363; 3399; 3775; 3795; 3819; 3850; 4541; 4842; 5280; 5364; 5427; 5496; 5769; 6350
SetI	ASST!	99	125; 137; 178; 261; 308; 342; 447; 552; 568; 626; 653; 749; 799; 820; 971; 977; 1106; 1124; 1136; 1175; 1199; 1243; 1247; 1262; 1305; 1311; 1320; 1341; 1347; 1457; 1466; 1499; 1535; 1541; 1559; 1574; 1607; 1658; 1670; 1700; 1754; 1794; 1884; 2039; 2075; 2141; 2270; 2420; 2438; 2512; 2519; 2580; 2806; 2888; 2936; 2966; 3003; 3033; 3097; 3167; 3188; 3197; 3209; 3258; 3425; 3540; 3552; 3595; 3632; 3682; 3705; 3829; 3977; 4072; 4265; 4378; 4506; 4585; 4596; 4668; 4739; 4783; 5043; 5189; 5233; 5564; 5595; 5654; 5697; 5840; 5861; 5960; 6097; 6112; 6131; 6143; 6187; 6233; 6284
SexAI	A!CCWGGT	1	4066
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	11	848; 2566; 2651; 2687; 3091; 3293; 4056; 4128; 4776; 4840; 5115

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SfaNI	!NNNNNNNNNGATGC	9	357; 1001; 1169; 1776; 2100; 4435; 4690; 4906; 6298
SfcI	C!TRYAG	8	1528; 1534; 1657; 1883; 2278; 3812; 5939; 6130
SfiI	GGCCNNNN!NGGCC	1	4252
SfoI	GGC!GCC	2	1740; 4478
Sfr274I	C!TCGAG	1	1334
Sfr303I	CCGC!GG	1	1378
SfuI	TT!CGAA	2	1780; 5159
SgeI	CNNGNNNNNNNN!	253	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 651; 669; 699; 723; 741; 756; 798; 813; 837; 856; 880; 893; 921; 942; 957; 984; 1006; 1039; 1059; 1072; 1086; 1104; 1117; 1134; 1147; 1167; 1188; 1209; 1222; 1260; 1283; 1304; 1334; 1348; 1378; 1402; 1419; 1434; 1452; 1471; 1485; 1506; 1519; 1536; 1549; 1563; 1579; 1596; 1614; 1628; 1647; 1660; 1677; 1692; 1707; 1755; 1768; 1807; 1875; 1974; 1992; 2013; 2029; 2057; 2082; 2101; 2119; 2152; 2167; 2186; 2228; 2253; 2277; 2303; 2326; 2340; 2366; 2452; 2469; 2493; 2537; 2551; 2564; 2597; 2639; 2678; 2727; 2746; 2766; 2819; 2837; 2870; 2904; 2919; 2965; 3013; 3044; 3075; 3089; 3131; 3184; 3213; 3255; 3338; 3376; 3412; 3496; 3518; 3550; 3587; 3605; 3624; 3639; 3681; 3698; 3715; 3750; 3764; 3781; 3803; 3827; 3851; 3916; 3930; 3968; 3984; 4024; 4037; 4056; 4079; 4096; 4109; 4128; 4158; 4179; 4196; 4219; 4254; 4281; 4312; 4334; 4360; 4382; 4401; 4429; 4465; 4484; 4507; 4521; 4541; 4554; 4568; 4587; 4601; 4620; 4652; 4666; 4679; 4705; 4736; 4749; 4766; 4783; 4797; 4814; 4832; 4847; 4875; 4891; 4910; 4932; 4948; 4971; 4990; 5015; 5034; 5054; 5081; 5105; 5138; 5157; 5185; 5199; 5265; 5289; 5304; 5327; 5348; 5365; 5413; 5440; 5454; 5483; 5507; 5540; 5557; 5577; 5590; 5603; 5661; 5688; 5707; 5737; 5762; 5782; 5796; 5821; 5839; 5876; 5914; 5943; 5971; 5985; 6005; 6020; 6041; 6055; 6074; 6092; 6108; 6148; 6168; 6195; 6213; 6234; 6247; 6260; 6277; 6301; 6324; 6356; 6381; 6408; 6430
SgeI	!NNNNNNNNNNNNCNNG	222	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 625; 643; 673; 697; 715; 739; 772; 811; 830; 854; 895; 916; 958; 980; 1013; 1033; 1060; 1078; 1099; 1121; 1141; 1162; 1183; 1207; 1234; 1257; 1278; 1308; 1328; 1352; 1376; 1393; 1410; 1427; 1445; 1463; 1480; 1510; 1535; 1553; 1570; 1588; 1607; 1626; 1651; 1676; 1729; 1781; 1849; 1948; 1966; 1987; 2010; 2031; 2056; 2075; 2093; 2126; 2150; 2202; 2227; 2251; 2277; 2300; 2318; 2340; 2426; 2443; 2467; 2511; 2538; 2571; 2613; 2652; 2701; 2720; 2740; 2793; 2811; 2844; 2878; 2895; 2939; 2987; 3018; 3049; 3105; 3158; 3187; 3229; 3312; 3350; 3386; 3470; 3492; 3524; 3561; 3579; 3598; 3655; 3672; 3689; 3724; 3742; 3762; 3782; 3801; 3825; 3890; 3942; 3998; 4030; 4053; 4070; 4102; 4132; 4153; 4170; 4193; 4228; 4255; 4286; 4308; 4334; 4356; 4375; 4403; 4439; 4458; 4481; 4502; 4520; 4537; 4561; 4594; 4626; 4653; 4679; 4710; 4740; 4757; 4783; 4806; 4827; 4849; 4869; 4889; 4906; 4945; 4964; 4989; 5008; 5028; 5055; 5079; 5112; 5131; 5159; 5181; 5239; 5263; 5282; 5301; 5322; 5339; 5387; 5414; 5434; 5457; 5481; 5514; 5531; 5551; 5577; 5635; 5662; 5681; 5711; 5736; 5756; 5795; 5813; 5850; 5888; 5917; 5945; 5966; 5994; 6015; 6048; 6066; 6122; 6142; 6169; 6187; 6208; 6234; 6251; 6275; 6298; 6330; 6355; 6382; 6404; 6433
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	1378
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 3624; 5411; 6204
SimI	!GACCC	5	106; 1361; 4905; 5473; 5721
SinI	G!GWCC	3	1200; 4993; 5438
SlaI	C!TCGAG	1	1334
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	365; 613; 643; 4914
SmlI	C!TYRAG	12	1135; 1174; 1334; 1340; 1582; 2164; 2562; 2805; 4868; 5750; 6027; 6289
SmoI	C!TYRAG	12	1135; 1174; 1334; 1340; 1582; 2164; 2562; 2805; 4868; 5750; 6027; 6289

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SmuI	CCCGCNNNN!	11	93; 119; 286; 1068; 1170; 1648; 3799; 4154; 4175; 5371; 5503
SmuI	!NNNNNNGCGGG	6	1105; 3730; 4600; 5137; 5275; 5422
SnaBI	TAC!GTA	2	340; 2578
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	2364; 4047; 4119; 4882
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	20	18; 1776; 2054; 2246; 2317; 2687; 2704; 2771; 2840; 2946; 3101; 3227; 3291; 3369; 3395; 3406; 4053; 4125; 4217; 5635
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	2	1039; 4298
SsiI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1372; 1375; 1389; 1411; 1641; 2238; 2654; 2712; 3792; 3795; 3809; 3899; 4147; 4159; 4168; 4180; 4190; 4201; 4247; 4386; 4449; 4951; 4996; 5062; 5088; 5213; 5216; 5364; 5496; 5803; 5947; 6443
SsiI	G!CGG	34	370; 403; 528; 758; 1070; 1112; 1377; 1397; 1434; 1480; 1562; 1684; 2389; 2595; 3737; 3764; 3852; 3962; 4543; 4607; 4708; 4711; 4991; 5046; 5144; 5282; 5429; 5569; 5812; 6057; 6178; 6197; 6324; 6352
SspI	AAT!ATT	2	3385; 3938
SspDI	G!GCGCC	2	1738; 4476
SspD5I	GGTGANNNNNNNN!	8	376; 627; 996; 1306; 1551; 1822; 5548; 5664
SspD5I	!NNNNNNNNNTCACC	4	884; 1565; 3593; 4654
SstI	GAGCT!C	3	1341; 1466; 1574
SstII	CCGC!GG	1	1378
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	1	929
SstE37I	!NNNNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	23	92; 118; 285; 851; 1067; 1169; 1190; 1373; 1647; 2544; 2559; 3676; 3798; 4153; 4174; 4487; 4890; 5029; 5100; 5370; 5502; 5732; 6170
Sth132I	!NNNNNNNNNCGGG	21	15; 407; 470; 827; 900; 1104; 3677; 3729; 3830; 4557; 4599; 4632; 5136; 5245; 5274; 5421; 5525; 5556; 6009; 6053; 6261
Sth302II	CC!GG	23	602; 836; 1185; 1323; 1474; 1578; 3120; 3696; 4383; 4460; 4482; 4510; 4641; 4731; 4798; 4979; 5254; 5262; 5354; 5828; 6018; 6044; 6191
StrI	C!TCGAG	1	1334
StsI	GGATGNNNNNNNNNN!	5	1393; 4345; 4802; 4827; 5281
StsI	!NNNNNNNNNNNNNNNCATCC	7	680; 768; 825; 2246; 2543; 3068; 4149
StuI	AGG!CCT	2	1039; 4298
StyI	C!CWWGG	6	360; 611; 4206; 4299; 4909; 5314
StyD4I	!CCNGG	25	88; 281; 785; 834; 929; 944; 1073; 1182; 1439; 1505; 2215; 2456; 4011; 4066; 4083; 4479; 4639; 4862; 5252; 5441; 5544; 6016; 6234; 6247; 6368
SwaI	ATTT!AAAT	0	
Taal	ACN!GT	21	76; 198; 269; 543; 581; 669; 1898; 2180; 2205; 2212; 2547; 2835; 2982; 3568; 4857; 4973; 5081; 5404; 5895; 6365; 6436
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 971; 1199; 1247; 2580; 3540; 3552; 3595; 3705; 4596; 4783; 5564; 5697
TaqI	T!CGA	22	752; 779; 1247; 1335; 1348; 1490; 1628; 1664; 1755; 1780; 2681; 3626; 4317; 4590; 4746; 4770; 4806; 4968; 5159; 5204; 5459; 6297
TaqII	GACCGANNNNNNNNNNNN!	4	1615; 3497; 4514; 5182
TaqII	!NNNNNNNNNTCGGTC	1	5426
TaqII	CACCCANNNNNNNNNNNN!	1	742
TaqII	!NNNNNNNNNTGGGTG	3	172; 4381; 4973
TasI	!AATT	20	18; 1776; 2054; 2246; 2317; 2687; 2704; 2771; 2840; 2946; 3101; 3227; 3291; 3369; 3395; 3406; 4053; 4125; 4217; 5635
TatI	W!GTACW	8	217; 297; 330; 381; 653; 1484; 2066; 2977
TauI	GCSG!C	25	761; 1073; 1374; 1377; 1391; 1400; 1413; 1437; 1565; 2240; 3797; 3811; 4249; 4388; 4451; 4546; 4711; 4714; 4953; 5049; 5090; 5218; 5572; 6200; 6355
TfiI	G!AWTC	12	740; 1217; 1723; 1935; 2041; 2310; 2617; 4962; 5096; 5206; 5243; 6421
ThiI	C!TCGAG	1	1334
TruII	T!TAA	21	7; 629; 854; 1733; 1919; 1997; 2987; 3178; 3239; 3360; 3381; 3392; 3404; 3415; 3432; 3530; 3801; 5620; 5634; 5639; 5691
Tru9I	T!TAA	21	7; 629; 854; 1733; 1919; 1997; 2987; 3178; 3239; 3360; 3381; 3392; 3404; 3415; 3432; 3530; 3801; 5620; 5634; 5639; 5691

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TscAI	CASTGNN!	9	2217; 2478; 2670; 2922; 3323; 4606; 5716; 5987; 6000
TseI	G!CWGC	29	809; 953; 1251; 1385; 1455; 1502; 1530; 1533; 1656; 1698; 1768; 1789; 1885; 2409; 2848; 3028; 3253; 3772; 4437; 4538; 4580; 4621; 4714; 5101; 5554; 5780; 5986; 5989; 6054
TsoI	TARCCANNNNNNNNNN!	2	3449; 3796
TsoI	!NNNNNNNNNTGGYTA	3	778; 3254; 5006
Tsp45I	!GTSAC	9	891; 1087; 1539; 1810; 2541; 2862; 3766; 4597; 4903
Tsp509I	!AATT	20	18; 1776; 2054; 2246; 2317; 2687; 2704; 2771; 2840; 2946; 3101; 3227; 3291; 3369; 3395; 3406; 4053; 4125; 4217; 5635
TspDTI	ATGAANNNNNNNNNN!	10	661; 1778; 1922; 2000; 2033; 2206; 2444; 3235; 4536; 5240
TspDTI	!NNNNNNNNNTTCAT	8	26; 789; 810; 2077; 2249; 4954; 5410; 5617
TspEI	!AATT	20	18; 1776; 2054; 2246; 2317; 2687; 2704; 2771; 2840; 2946; 3101; 3227; 3291; 3369; 3395; 3406; 4053; 4125; 4217; 5635
TspGWI	ACGGANNNNNNNNNN!	3	1528; 1558; 5352
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	9	2217; 2478; 2670; 2922; 3323; 4606; 5716; 5987; 6000
TstI	CACNNNNNTCCNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	4595
Tth111II	CAARCANNNNNNNNNN!	2	841; 5804
Tth111III	!NNNNNNNNNTGYTTG	6	2289; 2320; 2663; 4912; 5772; 5811
UnbI	!GGNCC	15	82; 275; 759; 1002; 1094; 1115; 1199; 1398; 1637; 3583; 4992; 5437; 5483; 5541; 5574
Van91I	CCANNNN!NTGG	1	1209
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	690; 6081
VpaK11AI	!GGWCC	3	1199; 4992; 5437
VpaK11BI	G!GWCC	3	1200; 4993; 5438
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	1	1954
XapI	R!AATTY	5	2704; 2946; 3291; 3395; 3406
XbaI	T!CTAGA	2	2290; 3124
XceI	RCATG!Y	9	642; 1088; 1983; 2300; 2364; 4047; 4119; 4882; 6399
XcmI	CCANNNN!NNNNTGG	1	2750
XhoI	C!TCGAG	1	1334
XhoII	R!GATCY	13	585; 1150; 1330; 1842; 3112; 3121; 4648; 4894; 5286; 5645; 5657; 5743; 5754
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	4299; 5314
XmiI	GT!MKAC	1	1190
XmnI	GAANN!NNTTC	2	2309; 2435
XspI	C!TAG	10	592; 2291; 2585; 3125; 3326; 3744; 4300; 5315; 5649; 5902
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	4049; 4121; 6452