

pFusionRed-annexin vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2471; 2676
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	1	1584
AasI	GACNNNN!NNGTC	3	2759; 3715; 5504
AatI	AGG!CCT	2	1039; 3509
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1190
AccII	CG!CG	15	60; 2576; 2612; 2988; 3008; 3032; 3063; 3754; 4055; 4493; 4577; 4640; 4709; 4982; 5563
AccIII	T!CCGGA	1	1321
Acc16I	TGC!GCA	1	3790
Acc36I	ACCTGCNNNN!	2	3956; 4406
Acc36I	!NNNNNNNNGCAGGT	2	1584; 3575
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	8	465; 664; 724; 1453; 2146; 2841; 3687; 3722
AccB7I	CCANNNN!NTGG	1	1209
AccBSI	CCG!CTC	2	3112; 4301
AccBSI	GAG!CGG	2	2948; 4355
AceIII	CAGCTCNNNNNNN!	1	2644
AceIII	!NNNNNNNNNNGAGCTG	3	552; 610; 1630
AciI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1491; 1499; 3003; 3006; 3020; 3110; 3358; 3370; 3379; 3391; 3401; 3412; 3458; 3597; 3660; 4162; 4207; 4273; 4299; 4424; 4427; 4575; 4707; 5014; 5158; 5654
AciI	G!CGG	26	370; 403; 528; 758; 1070; 1112; 2948; 2975; 3063; 3173; 3754; 3818; 3919; 3922; 4202; 4257; 4355; 4493; 4640; 4780; 5023; 5268; 5389; 5408; 5535; 5563
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	2331; 2340; 3556; 3867; 4113; 4505; 4864; 4962; 5048
AclWI	!NNNNNGATCC	9	580; 1145; 1689; 1716; 2318; 3932; 4476; 4863; 4960
AcoI	Y!GGCCR	6	1268; 1358; 3594; 3768; 4159; 4186
AcsI	R!AATY	5	1350; 1936; 2502; 2606; 2617
AcuI	CTGAAGNNNNNNNNNNNNNNN!	4	1120; 1585; 3834; 4266
AcuI	!NNNNNNNNNNNNNCTTCAG	2	1379; 5064
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	10	122; 175; 258; 444; 1187; 1466; 1615; 3688; 4390; 4469
AdeI	CACNNN!GTG	2	1260; 2804
AfaI	GT!AC	13	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1380; 2248; 2291; 3994
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	25	49; 721; 1000; 1066; 1209; 1434; 1445; 1509; 1544; 1899; 2700; 3026; 3418; 3669; 4213; 4494; 4526; 4658; 4693; 4743; 4775; 5128; 5407; 5573; 5591
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	3	2198; 2574; 5606
AgeI	A!CCGGT	1	600
AgsI	TT!AA	11	687; 1404; 1771; 2023; 2059; 2223; 3099; 3143; 3153; 3566; 5142
AhdI	GACNNN!NNGTC	1	1566
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	1635
AjnI	!CCWGG	18	88; 281; 785; 929; 944; 1073; 1508; 1697; 1886; 3222; 3277; 3294; 4073; 4652; 4755; 5445; 5458; 5579
AjuI	GAANNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNTTC	0	

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AjuI	CCAANNNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	613
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	3262; 3334
AlfI	!NNNNNNNNNGGCANNNNNNTGC	2	3228; 3300
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	2770
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	2738
AluI	AG!CT	23	566; 624; 651; 797; 1104; 1339; 1345; 1390; 1644; 1831; 2054; 2121; 2467; 2634; 2891; 3186; 3474; 3794; 4252; 5049; 5306; 5352; 5442
AluBI	AG!CT	23	566; 624; 651; 797; 1104; 1339; 1345; 1390; 1644; 1831; 2054; 2121; 2467; 2634; 2891; 3186; 3474; 3794; 4252; 5049; 5306; 5352; 5442
AlwI	GGATCNNNN!	9	2331; 2340; 3556; 3867; 4113; 4505; 4864; 4962; 5048
AlwI	!NNNNNGATCC	9	580; 1145; 1689; 1716; 2318; 3932; 4476; 4863; 4960
Alw21I	GWGCW!C	6	694; 1341; 1537; 3801; 3991; 5296
Alw26I	GTCTCN!	3	434; 1826; 2246
Alw26I	!NNNNNGAGAC	10	1042; 1132; 1231; 1869; 2220; 2270; 3112; 3530; 4549; 4677
Alw44I	G!TGCAC	2	690; 5292
AlwNI	CAGNNN!CTG	4	1428; 1893; 4789; 5197
Ama87I	C!YCGRG	2	1334; 2183
Aor13HI	T!CCGGA	1	1321
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	5	1645; 2111; 3256; 3328; 4790
ApaLI	G!TGCAC	2	690; 5292
ApeKI	G!CWGC	20	809; 953; 1251; 1390; 1644; 1682; 1749; 2464; 2983; 3648; 3749; 3791; 3832; 3925; 4312; 4765; 4991; 5197; 5200; 5265
ApoI	R!AATY	5	1350; 1936; 2502; 2606; 2617
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	4203
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3997; 4650; 5488
AquI	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	4087
AquI	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	785
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	4	1338; 1742; 2334; 3516
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	1	1456
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	4258
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	26	586; 1125; 1151; 1331; 1515; 1695; 1722; 2324; 2333; 2346; 3526; 3530; 3549; 3860; 3938; 4019; 4028; 4106; 4482; 4498; 4857; 4869; 4947; 4955; 4966; 5041
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3806
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3510; 4525
AspEI	GACNN!NNGTC	1	1566
AspLEI	GCG!C	25	597; 1084; 1291; 1508; 1730; 2954; 2962; 2988; 3010; 3019; 3032; 3063; 3682; 3690; 3754; 3791; 4057; 4317; 4493; 4579; 4982; 5091; 5265; 5365; 5432
AspS9I	G!GNCC	16	83; 276; 760; 1003; 1095; 1116; 1200; 1652; 1709; 1890; 2795; 4204; 4649; 4695; 4753; 4786
AssI	AGT!ACT	1	2291
AsuII	TT!CGAA	2	1348; 4370
AsuC2I	CC!SGG	9	836; 1184; 1707; 1959; 2212; 3692; 3852; 4465; 5229
AsuHPI	GGTGANNNNNNN!	9	376; 627; 996; 1306; 1608; 1944; 2275; 4759; 4875
AsuHPI	!NNNNNNNTCACC	4	885; 1963; 2805; 3866
AsuNHI	G!CTAGC	1	591

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AvaI	C!YCGRG	2	1334; 2183
AvaII	G!GWCC	5	1200; 1709; 1890; 4204; 4649
AviII	TGC!GCA	1	3790
AvrII	C!CTAGG	2	3510; 4525
AxyI	CC!TNAGG	5	869; 1429; 1715; 3168; 4800
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	667; 694; 727; 2149; 2217; 3634; 3727; 5296
BalI	TGG!CCA	3	1270; 1360; 3770
BamHI	G!GATCC	1	2323
BanI	G!GYRCC	8	465; 664; 724; 1453; 2146; 2841; 3687; 3722
BanII	GRGCY!C	5	1341; 1451; 2879; 4053; 4763
BanIII	AT!CGAT	2	2131; 3528
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	1209
BauI	C!ACGAG	3	1255; 4406; 5433
BauI	C!TCGTG	3	1105; 1870; 4280
BbeI	GGCGC!C	1	3691
Bbr7I	GAAGACNNNNNN!	2	916; 1474
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	2	911; 1469
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	3258; 3330; 4093
BbvI	GCAGCNNNNNNNN!	9	821; 1263; 1761; 2476; 3761; 3803; 4324; 4777; 5277
BbvI	!NNNNNNNNNNNGCTGC	10	940; 1377; 1631; 1669; 2970; 3635; 3819; 3912; 4978; 5184
Bbv12I	GWGCW!C	6	694; 1341; 1537; 3801; 3991; 5296
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	1546; 2818; 3382; 3908; 4410
BccI	!NNNNNGATGG	5	1291; 2169; 2786; 3566; 3994
BceAI	ACGGCNNNNNNNNNN!	6	822; 966; 1017; 1083; 4114; 4601
BceAI	!NNNNNNNNNNNGCCGT	3	2829; 3647; 5106
Bcefl	ACGGCNNNNNNNNNN!	6	822; 966; 1017; 1083; 4114; 4601
Bcefl	!NNNNNNNNNNNGCCGT	3	2830; 3648; 5107
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3117; 3907; 5408
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2345
BcnI	CC!SGG	9	836; 1184; 1707; 1959; 2212; 3692; 3852; 4465; 5229
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	2368; 5541
BdaI	!NNNNNNNNNTGANNNNNNTCA	2	2334; 5507
BfaI	C!TAG	8	592; 2336; 2537; 2955; 3511; 4526; 4860; 5113
BfiI	ACTGGGNNNNN!	1	3637
BfiI	!NNNNCCCAGT	2	289; 3389
BfmI	C!TRYAG	5	2075; 2280; 3023; 5150; 5341
BfoI	RGCGC!Y	7	598; 1292; 1509; 2955; 2963; 3691; 5366
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	3117; 3907; 5408
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3956; 4406
BfuAI	!NNNNNNNGCAGGT	2	1584; 3575
BfuCI	!GATC	26	585; 1124; 1150; 1330; 1514; 1694; 1721; 2323; 2332; 2345; 3525; 3529; 3548; 3859; 3937; 4018; 4027; 4105; 4481; 4497; 4856; 4868; 4946; 4954; 4965; 5040
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1079; 3463

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BglII	A!GATCT	1	1330
BisI	GC!NGC	37	759; 810; 954; 1071; 1252; 1391; 1645; 1683; 1750; 2465; 2984; 3006; 3020; 3458; 3597; 3649; 3660; 3750; 3755; 3792; 3833; 3920; 3923; 3926; 4162; 4258; 4299; 4313; 4427; 4766; 4781; 4992; 5198; 5201; 5266; 5409; 5564
BlnI	C!CTAGG	2	3510; 4525
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	37	760; 811; 955; 1072; 1253; 1392; 1646; 1684; 1751; 2466; 2985; 3007; 3021; 3459; 3598; 3650; 3661; 3751; 3756; 3793; 3834; 3921; 3924; 3927; 4163; 4259; 4300; 4314; 4428; 4767; 4782; 4993; 5199; 5202; 5267; 5410; 5565
BmcAI	AGT!ACT	1	2291
Bme18I	G!GWCC	5	1200; 1709; 1890; 4204; 4649
Bme1390I	CC!NGG	27	90; 283; 787; 836; 931; 946; 1075; 1184; 1510; 1699; 1707; 1888; 1959; 2212; 3224; 3279; 3296; 3692; 3852; 4075; 4465; 4654; 4757; 5229; 5447; 5460; 5581
BmeRI	GACNNN!NNGTC	1	1566
BmeT110I	C!YCGRG	2	1334; 2183
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	1635
BmgT120I	GG!NCC	16	84; 277; 761; 1004; 1096; 1117; 1201; 1653; 1710; 1891; 2796; 4205; 4650; 4696; 4754; 4787
BmiI	GGN!NCC	25	467; 666; 726; 1117; 1320; 1455; 1665; 1711; 1765; 1963; 2148; 2325; 2843; 2864; 2876; 3067; 3228; 3300; 3689; 3724; 4572; 4651; 4696; 5539; 5578
BmrI	ACTGGGNNNNN!	1	3637
BmrI	!NNNNCCCAGT	2	289; 3389
BmrFI	CC!NGG	27	90; 283; 787; 836; 931; 946; 1075; 1184; 1510; 1699; 1707; 1888; 1959; 2212; 3224; 3279; 3296; 3692; 3852; 4075; 4465; 4654; 4757; 5229; 5447; 5460; 5581
BmsI	GCATCNNNNN!	7	848; 2504; 3267; 3339; 3987; 4051; 4326
BmsI	!NNNNNNNNNGATGC	11	357; 1001; 1169; 1407; 1854; 1872; 2052; 3646; 3901; 4117; 5509
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	3637
BmuI	!NNNNCCCAGT	2	289; 3389
BoxI	GACNN!NNGTC	1	1243
BpiI	GAAGACNN!	2	911; 1469
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3477; 4376
BpI	!NNNNNNNNNGAGNNNNNCTC	2	3445; 4344
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	1925; 2294; 4528
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	928; 4471
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1348; 4370
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	2	911; 1469
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	1156; 4982; 5521
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	4	1159; 1325; 4064; 5223
BpuMI	CC!SGG	9	836; 1184; 1707; 1959; 2212; 3692; 3852; 4465; 5229
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	1132; 1231; 4677
Bsa29I	AT!CGAT	2	2131; 3528
BsaAI	YAC!GTR	3	340; 2804; 3992
BsaBI	GATNN!NNATC	2	2350; 3547
BsaHI	GR!CGYC	10	122; 175; 258; 444; 1187; 1466; 1615; 3688; 4390; 4469
BsaJI	C!CNNGG	22	360; 611; 698; 929; 1361; 1409; 1619; 1886; 3222; 3294; 3417; 3452; 3461; 3510; 3851; 4120; 4525; 4652; 4653; 4755; 4756; 5446
BsaMI	GAATGCN!	1	2439
BsaMI	G!CATTC	1	2532
BsaWI	W!CCGGW	7	600; 1321; 2329; 3719; 4563; 5253; 5400
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2768
BsaXI	!NNNNNNGGAGNNNNNGT	1	1367

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BsaXI	GGAGNNNNNGTNNNNNNNNNNNN!	1	1397
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	2738
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	1	1520
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	2689; 4596
Bsc4I	CCNNNNN!NNGG	25	49; 721; 1000; 1066; 1209; 1434; 1445; 1509; 1544; 1899; 2700; 3026; 3418; 3669; 4213; 4494; 4526; 4658; 4693; 4743; 4775; 5128; 5407; 5573; 5591
BscAI	GCATCNNNN!	7	847; 2503; 3266; 3338; 3986; 4050; 4325
BscAI	!NNNNNNNGATGC	11	360; 1004; 1172; 1410; 1857; 1875; 2055; 3649; 3904; 4120; 5512
BseI	ACTGGN!	5	1214; 1287; 3632; 3833; 5079
BseI	C!CAGT	5	295; 2717; 3395; 5191; 5204
Bse8I	GATNN!NNATC	2	2350; 3547
Bse21I	CC!TNAGG	5	869; 1429; 1715; 3168; 4800
Bse118I	R!CCGGY	6	600; 1666; 2905; 4007; 4188; 4471
BseAI	T!CCGGA	1	1321
BseBI	CC!WGG	18	90; 283; 787; 931; 946; 1075; 1510; 1699; 1888; 3224; 3279; 3296; 4075; 4654; 4757; 5447; 5460; 5581
BseCI	AT!CGAT	2	2131; 3528
BseDI	C!CNNGG	22	360; 611; 698; 929; 1361; 1409; 1619; 1886; 3222; 3294; 3417; 3452; 3461; 3510; 3851; 4120; 4525; 4652; 4653; 4755; 4756; 5446
Bse3DI	GCAATGNN!	1	3921
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	7	1613; 1848; 1887; 3548; 4005; 4030; 4484
BseGI	!CATCC	4	694; 782; 839; 3374
BseJI	GATNN!NNATC	2	2350; 3547
BseLI	CCNNNNN!NNGG	25	49; 721; 1000; 1066; 1209; 1434; 1445; 1509; 1544; 1899; 2700; 3026; 3418; 3669; 4213; 4494; 4526; 4658; 4693; 4743; 4775; 5128; 5407; 5573; 5591
BseMI	GCAATGNN!	1	3921
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	1341; 4814
BseMII	!NNNNNNNNNCTGAG	9	860; 1420; 1567; 1706; 3159; 3461; 4342; 4914; 5323
BseNI	ACTGGN!	5	1214; 1287; 3632; 3833; 5079
BseNI	C!CAGT	5	295; 2717; 3395; 5191; 5204
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	4	1328; 1732; 2324; 3506
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGC!C	8	667; 694; 727; 2149; 2217; 3634; 3727; 5296
BseXI	GCAGCNNNNNNNN!	9	821; 1263; 1761; 2476; 3761; 3803; 4324; 4777; 5277
BseXI	!NNNNNNNNNNNGCTGC	10	940; 1377; 1631; 1669; 2970; 3635; 3819; 3912; 4978; 5184
BseX3I	C!GGCCG	1	3594
BseYI	C!CCAGC	5	993; 1502; 3231; 3303; 5302
BseYI	G!CTGGG	2	1031; 4192
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	15	60; 2576; 2612; 2988; 3008; 3032; 3063; 3754; 4055; 4493; 4577; 4640; 4709; 4982; 5563
Bsh1285I	CGRY!CG	3	605; 3597; 5272
BshFI	GG!CC	31	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1360; 1438; 1654; 1702; 2654; 2796; 3451; 3457; 3466; 3509; 3596; 3770; 4161; 4188; 4697; 4754; 4787; 5132; 5566; 5584; 5595
BshNI	G!GYRCC	8	465; 664; 724; 1453; 2146; 2841; 3687; 3722
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	2	2131; 3528
BsiEI	CGRY!CG	3	605; 3597; 5272
BsiHKAI	GWGCW!C	6	694; 1341; 1537; 3801; 3991; 5296
BsiHKCI	C!YCGRG	2	1334; 2183
BsiSI	C!CGG	26	601; 835; 1184; 1322; 1667; 1707; 1725; 1959; 2211; 2330; 2906; 3593; 3670; 3692; 3720; 3851; 3941; 4008; 4189; 4464; 4472; 4564; 5038; 5228; 5254; 5401
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	25	49; 721; 1000; 1066; 1209; 1434; 1445; 1509; 1544; 1899; 2700; 3026; 3418; 3669; 4213; 4494; 4526; 4658; 4693; 4743; 4775; 5128; 5407; 5573; 5591
BsIFI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1561; 1935; 3839; 4371; 4480

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BsIF1	!NNNNNNNNNNNNNGTCCC	4	3204; 3276; 3340; 4635
BsmI	GAATGCN!	1	2439
BsmI	G!CATTC	1	2532
BsmAI	GTCTCN!	3	434; 1826; 2246
BsmAI	!NNNNNGAGAC	10	1042; 1132; 1231; 1869; 2220; 2270; 3112; 3530; 4549; 4677
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	1042
BsmFI	GGGACNNNNNNNNN!	8	175; 326; 494; 1561; 1935; 3839; 4371; 4480
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3204; 3276; 3340; 4635
BsnI	GG!CC	31	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1360; 1438; 1654; 1702; 2654; 2796; 3451; 3457; 3466; 3509; 3596; 3770; 4161; 4188; 4697; 4754; 4787; 5132; 5566; 5584; 5595
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	1132; 1231; 4677
BsoBI	C!YCGRG	2	1334; 2183
Bsp13I	T!CCGGA	1	1321
Bsp19I	C!CATGG	6	360; 611; 1361; 1409; 3417; 4120
Bsp24I	GACNNNNNNNTGGNNNNNNNNNNN!	2	289; 4491
Bsp24I	!NNNNNNNCCANNNNNNNGTC	2	4912; 5090
Bsp24I	CCANNNNNNNGTCNNNNNNNNNNNNN!	2	4944; 5122
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 4459
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1348; 4370
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	26	585; 1124; 1150; 1330; 1514; 1694; 1721; 2323; 2332; 2345; 3525; 3529; 3548; 3859; 3937; 4018; 4027; 4105; 4481; 4497; 4856; 4868; 4946; 4954; 4965; 5040
Bsp1286I	GDGCH!C	16	667; 694; 727; 1341; 1451; 1537; 2149; 2217; 2879; 3634; 3727; 3801; 3991; 4053; 4763; 5296
Bsp1407I	T!GTACA	1	653
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1491; 1499; 3003; 3006; 3020; 3110; 3358; 3370; 3379; 3391; 3401; 3412; 3458; 3597; 3660; 4162; 4207; 4273; 4299; 4424; 4427; 4575; 4707; 5014; 5158; 5654
BspACI	G!CGG	26	370; 403; 528; 758; 1070; 1112; 2948; 2975; 3063; 3173; 3754; 3818; 3919; 3922; 4202; 4257; 4355; 4493; 4640; 4780; 5023; 5268; 5389; 5408; 5535; 5563
BspCNI	CTCAGNNNNNNNNN!	2	1340; 4813
BspCNI	!NNNNNNNCTGAG	9	861; 1421; 1568; 1707; 3160; 3462; 4343; 4915; 5324
BspDI	AT!CGAT	2	2131; 3528
BspD6I	GACTCNNNN!	6	418; 1333; 2236; 2761; 4367; 5244
BspD6I	!NNNNNGAGTC	3	883; 2724; 3156
BspEI	T!CCGGA	1	1321
BspFNI	CG!CG	15	60; 2576; 2612; 2988; 3008; 3032; 3063; 3754; 4055; 4493; 4577; 4640; 4709; 4982; 5563
BspHI	T!CATGA	2	3114; 4886
BspLI	GGN!NCC	25	467; 666; 726; 1117; 1320; 1455; 1665; 1711; 1765; 1963; 2148; 2325; 2843; 2864; 2876; 3067; 3228; 3300; 3689; 3724; 4572; 4651; 4696; 5539; 5578
BspMI	ACCTGCNNNN!	2	3956; 4406
BspMI	!NNNNNNNGCAGGT	2	1584; 3575
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	2331; 2340; 3556; 3867; 4113; 4505; 4864; 4962; 5048
BspPI	!NNNNNGATCC	9	580; 1145; 1689; 1716; 2318; 3932; 4476; 4863; 4960
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	4032; 4242
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1348; 4370
BspT107I	G!GYRCC	8	465; 664; 724; 1453; 2146; 2841; 3687; 3722
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	1132; 1231; 4677
BsrI	ACTGGN!	5	1214; 1287; 3632; 3833; 5079
BsrI	C!CAGT	5	295; 2717; 3395; 5191; 5204
BsrBI	CCG!CTC	2	3112; 4301
BsrBI	GAG!CGG	2	2948; 4355

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrDI	GCAATGNN!	1	3921
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	6	600; 1666; 2905; 4007; 4188; 4471
BsrGI	T!GTACA	1	653
BsrSI	ACTGGN!	5	1214; 1287; 3632; 3833; 5079
BsrSI	C!CAGT	5	295; 2717; 3395; 5191; 5204
BssAI	R!CCGGY	6	600; 1666; 2905; 4007; 4188; 4471
BssECI	C!CNNGG	22	360; 611; 698; 929; 1361; 1409; 1619; 1886; 3222; 3294; 3417; 3452; 3461; 3510; 3851; 4120; 4525; 4652; 4653; 4755; 4756; 5446
BssHII	G!CGCGC	0	
BssKI	!CCNGG	27	88; 281; 785; 834; 929; 944; 1073; 1182; 1508; 1697; 1705; 1886; 1957; 2210; 3222; 3277; 3294; 3690; 3850; 4073; 4463; 4652; 4755; 5227; 5445; 5458; 5579
BssMI	!GATC	26	585; 1124; 1150; 1330; 1514; 1694; 1721; 2323; 2332; 2345; 3525; 3529; 3548; 3859; 3937; 4018; 4027; 4105; 4481; 4497; 4856; 4868; 4946; 4954; 4965; 5040
BssNI	GR!CGYC	10	122; 175; 258; 444; 1187; 1466; 1615; 3688; 4390; 4469
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1255; 4406; 5433
BssSI	C!TCGTG	3	1105; 1870; 4280
BssT1I	C!CWWGG	8	360; 611; 1361; 1409; 3417; 3510; 4120; 4525
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	3155; 4032; 4242
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	10	122; 175; 258; 444; 1187; 1466; 1615; 3688; 4390; 4469
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	5	1644; 2110; 3255; 3327; 4789
BstAUI	T!GTACA	1	653
BstBI	TT!CGAA	2	1348; 4370
Bst2BI	C!ACGAG	3	1255; 4406; 5433
Bst2BI	C!TCGTG	3	1105; 1870; 4280
BstBAI	YAC!GTR	3	340; 2804; 3992
Bst4CI	ACN!GT	17	76; 198; 269; 543; 581; 669; 1383; 1623; 1947; 2779; 4068; 4184; 4292; 4615; 5106; 5576; 5647
BstC8I	GCN!NGC	33	86; 279; 593; 622; 712; 916; 1668; 2072; 2907; 2950; 2964; 3237; 3256; 3309; 3328; 3582; 3768; 3987; 4053; 4059; 4087; 4091; 4132; 4136; 4190; 4473; 4660; 4707; 4763; 4785; 4996; 5556; 5593
BstDEI	C!TNAG	11	869; 1327; 1429; 1576; 1715; 3168; 3470; 4351; 4800; 4923; 5332
BstDSI	C!CRYGG	7	360; 611; 1361; 1409; 1619; 3417; 4120
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	2	1432; 1897
BstF5I	GGATGNN!	7	1613; 1848; 1887; 3548; 4005; 4030; 4484
BstF5I	!CATCC	4	694; 782; 839; 3374
BstFNI	CG!CG	15	60; 2576; 2612; 2988; 3008; 3032; 3063; 3754; 4055; 4493; 4577; 4640; 4709; 4982; 5563
BstH2I	RGCGC!Y	7	598; 1292; 1509; 2955; 2963; 3691; 5366
BstHHI	GCG!C	25	597; 1084; 1291; 1508; 1730; 2954; 2962; 2988; 3010; 3019; 3032; 3063; 3682; 3690; 3754; 3791; 4057; 4317; 4493; 4579; 4982; 5091; 5265; 5365; 5432
BstKTI	GAT!C	26	588; 1127; 1153; 1333; 1517; 1697; 1724; 2326; 2335; 2348; 3528; 3532; 3551; 3862; 3940; 4021; 4030; 4108; 4484; 4500; 4859; 4871; 4949; 4957; 4968; 5043
BstMAI	GTCTCN!	3	434; 1826; 2246
BstMAI	!NNNNGAGAC	10	1042; 1132; 1231; 1869; 2220; 2270; 3112; 3530; 4549; 4677
BstMBI	!GATC	26	585; 1124; 1150; 1330; 1514; 1694; 1721; 2323; 2332; 2345; 3525; 3529; 3548; 3859; 3937; 4018; 4027; 4105; 4481; 4497; 4856; 4868; 4946; 4954; 4965; 5040
BstMCI	CGRY!CG	3	605; 3597; 5272
BstMWI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 648; 1079; 1541; 1623; 1644; 2071; 2110; 2915; 2945; 2972; 3014; 3255; 3327; 3378; 3457; 3679; 3763; 3786; 3925; 4048; 4131; 4398; 4585; 4789; 4988; 5560

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstNI	CC!WGG	18	90; 283; 787; 931; 946; 1075; 1510; 1699; 1888; 3224; 3279; 3296; 4075; 4654; 4757; 5447; 5460; 5581
BstNSI	RCATG!Y	8	642; 1088; 1984; 2202; 3258; 3330; 4093; 5610
BstOI	CC!WGG	18	90; 283; 787; 931; 946; 1075; 1510; 1699; 1888; 3224; 3279; 3296; 4075; 4654; 4757; 5447; 5460; 5581
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1243
BstSCI	!CCNGG	27	88; 281; 785; 834; 929; 944; 1073; 1182; 1508; 1697; 1705; 1886; 1957; 2210; 3222; 3277; 3294; 3690; 3850; 4073; 4463; 4652; 4755; 5227; 5445; 5458; 5579
BstSFI	C!TRYAG	5	2075; 2280; 3023; 5150; 5341
BstSLI	GKGC!IC	8	667; 694; 727; 2149; 2217; 3634; 3727; 5296
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	15	60; 2576; 2612; 2988; 3008; 3032; 3063; 3754; 4055; 4493; 4577; 4640; 4709; 4982; 5563
Bst2UI	CC!WGG	18	90; 283; 787; 931; 946; 1075; 1510; 1699; 1888; 3224; 3279; 3296; 4075; 4654; 4757; 5447; 5460; 5581
BstV1I	GCAGC!NNNNNNNN!	9	821; 1263; 1761; 2476; 3761; 3803; 4324; 4777; 5277
BstV1I	!NNNNNNNNNNNNGCTGC	10	940; 1377; 1631; 1669; 2970; 3635; 3819; 3912; 4978; 5184
BstV2I	GAAGACNN!	2	911; 1469
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	14	585; 1150; 1330; 1694; 1721; 2323; 2332; 3859; 4105; 4497; 4856; 4868; 4954; 4965
BstYI	R!GATCY	14	585; 1150; 1330; 1694; 1721; 2323; 2332; 3859; 4105; 4497; 4856; 4868; 4954; 4965
BstZI	C!GGCCG	1	3594
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3117; 3907; 5408
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	2	2131; 3528
Bsu36I	CC!TNAGG	5	869; 1429; 1715; 3168; 4800
BsuRI	GG!CC	31	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1360; 1438; 1654; 1702; 2654; 2796; 3451; 3457; 3466; 3509; 3596; 3770; 4161; 4188; 4697; 4754; 4787; 5132; 5566; 5584; 5595
BsuTUI	AT!CGAT	2	2131; 3528
BtgI	C!CRYGG	7	360; 611; 1361; 1409; 1619; 3417; 4120
BtgZI	GCGATGNNNNNNNNNN!	2	2805; 4140
BtgZI	!NNNNNNNNNNNNNNNNCATCGC	3	334; 3959; 4303
BthCI	GCNG!IC	37	761; 812; 956; 1073; 1254; 1393; 1647; 1685; 1752; 2467; 2986; 3008; 3022; 3460; 3599; 3651; 3662; 3752; 3757; 3794; 3835; 3922; 3925; 3928; 4164; 4260; 4301; 4315; 4429; 4768; 4783; 4994; 5200; 5203; 5268; 5411; 5566
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	1635
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2527
BtsCI	GGATGNN!	7	1613; 1848; 1887; 3548; 4005; 4030; 4484
BtsCI	!CATCC	4	694; 782; 839; 3374
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3956; 4406
BveI	!NNNNNNNNGCAGGT	2	1584; 3575
Cac8I	GCN!NGC	33	86; 279; 593; 622; 712; 916; 1668; 2072; 2907; 2950; 2964; 3237; 3256; 3309; 3328; 3582; 3768; 3987; 4053; 4059; 4087; 4091; 4132; 4136; 4190; 4473; 4660; 4707; 4763; 4785; 4996; 5556; 5593
CaiI	CAGNNN!CTG	4	1428; 1893; 4789; 5197
CciI	T!CATGA	2	3114; 4886
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 1542; 1796; 3977; 3982; 4180; 4321
CdiI	C!GATG	8	1052; 1233; 1458; 1863; 2132; 2151; 2791; 4126
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5560
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3349; 3391
CelII	GC!TNAGC	0	
CfoI	GCG!C	25	597; 1084; 1291; 1508; 1730; 2954; 2962; 2988; 3010; 3019; 3032; 3063; 3682; 3690; 3754; 3791; 4057; 4317; 4493; 4579; 4982; 5091; 5265; 5365; 5432

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CfrI	Y!GGCCR	6	1268; 1358; 3594; 3768; 4159; 4186
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	6	600; 1666; 2905; 4007; 4188; 4471
Cfr13I	G!GNCC	16	83; 276; 760; 1003; 1095; 1116; 1200; 1652; 1709; 1890; 2795; 4204; 4649; 4695; 4753; 4786
Cfr42I	CCGC!GG	0	
ChaI	GATC!	26	589; 1128; 1154; 1334; 1518; 1698; 1725; 2327; 2336; 2349; 3529; 3533; 3552; 3863; 3941; 4022; 4031; 4109; 4485; 4501; 4860; 4872; 4950; 4958; 4969; 5044
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNN!	7	706; 1395; 1912; 3505; 4945; 5045; 5123
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 3172; 3267; 4459; 5009; 5564
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 3206; 3301; 4493; 5043; 5598
CjeI	!NNNNNNNNCCANNNNNNGT	7	672; 1361; 1878; 3471; 4911; 5011; 5089
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	4945; 5123
CjePI	!NNNNNNNNGANNNNNNNTGG	6	257; 1841; 1900; 2217; 4459; 5058
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	6	290; 1874; 1933; 2250; 4492; 5091
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	4912; 5090
Clal	AT!CGAT	2	2131; 3528
CpoI	CG!GWCCG	1	4204
CseI	GACGCNNNNN!	5	526; 1474; 1623; 4398; 4477
CseI	!NNNNNNNNNGCGTC	5	1176; 1467; 3021; 4916; 5494
CsiI	A!CCWGGT	1	3277
CspI	CG!GWCCG	1	4204
Csp6I	G!TAC	13	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1379; 2247; 2290; 3993
Csp45I	TT!CGAA	2	1348; 4370
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	5	656; 1247; 1398; 2968; 4577
CstMI	!NNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	32	301; 361; 612; 639; 645; 657; 735; 801; 881; 1085; 1092; 1362; 1410; 1440; 1656; 1800; 1981; 2088; 2199; 3115; 3255; 3327; 3418; 3559; 3904; 4090; 4121; 4147; 4503; 4887; 5607; 5658
CviJI	RG!CY	111	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; 1360; 1390; 1438; 1449; 1525; 1644; 1654; 1666; 1682; 1702; 1736; 1766; 1831; 1903; 2054; 2074; 2121; 2141; 2357; 2467; 2634; 2654; 2796; 2877; 2891; 2905; 3186; 3227; 3299; 3422; 3451; 3457; 3466; 3474; 3497; 3509; 3515; 3596; 3613; 3621; 3648; 3673; 3757; 3766; 3770; 3794; 3832; 3908; 3925; 3944; 4007; 4051; 4061; 4078; 4161; 4188; 4192; 4229; 4252; 4268; 4448; 4475; 4536; 4658; 4697; 4754; 4761; 4768; 4787; 4798; 5049; 5078; 5121; 5132; 5197; 5276; 5301; 5306; 5352; 5442; 5540; 5566; 5584; 5595
CviKI-1	RG!CY	111	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; 1360; 1390; 1438; 1449; 1525; 1644; 1654; 1666; 1682; 1702; 1736; 1766; 1831; 1903; 2054; 2074; 2121; 2141; 2357; 2467; 2634; 2654; 2796; 2877; 2891; 2905; 3186; 3227; 3299; 3422; 3451; 3457; 3466; 3474; 3497; 3509; 3515; 3596; 3613; 3621; 3648; 3673; 3757; 3766; 3770; 3794; 3832; 3908; 3925; 3944; 4007; 4051; 4061; 4078; 4161; 4188; 4192; 4229; 4252; 4268; 4448; 4475; 4536; 4658; 4697; 4754; 4761; 4768; 4787; 4798; 5049; 5078; 5121; 5132; 5197; 5276; 5301; 5306; 5352; 5442; 5540; 5566; 5584; 5595
CviQI	G!TAC	13	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1379; 2247; 2290; 3993
DdeI	C!TNAG	11	869; 1327; 1429; 1576; 1715; 3168; 3470; 4351; 4800; 4923; 5332
DinI	GGC!GCC	1	3689
DpnI	GA!TC	26	587; 1126; 1152; 1332; 1516; 1696; 1723; 2325; 2334; 2347; 3527; 3531; 3550; 3861; 3939; 4020; 4029; 4107; 4483; 4499; 4858; 4870; 4948; 4956; 4967; 5042

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DpnII	!GATC	26	585; 1124; 1150; 1330; 1514; 1694; 1721; 2323; 2332; 2345; 3525; 3529; 3548; 3859; 3937; 4018; 4027; 4105; 4481; 4497; 4856; 4868; 4946; 4954; 4965; 5040
DraI	TTT!AAA	3	2390; 4832; 4851
DraII	RG!GNCCY	2	1890; 4786
DraIII	CACNNN!GTG	2	1260; 2804
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	3	266; 851; 5168
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTG	1	1461
DrdI	GACNNN!NNGTC	3	2759; 3715; 5504
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	1	1566
DseDI	GACNNN!NNGTC	3	2759; 3715; 5504
EaeI	Y!GGCCR	6	1268; 1358; 3594; 3768; 4159; 4186
EagI	C!GGCCG	1	3594
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	3	3155; 4032; 4242
Eam1105I	GACNNN!NNGTC	1	1566
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	3	3155; 4032; 4242
EciI	GGCGGANNNNNNNNNNNN!	4	3188; 4217; 5404; 5550
EciI	!NNNNNNNNNTCCGCC	4	496; 3359; 3380; 3401
Ecl136II	GAG!CTC	1	1339
EclXI	C!GGCCG	1	3594
Eco24I	GRGCY!C	5	1341; 1451; 2879; 4053; 4763
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	3	1132; 1231; 4677
Eco32I	GAT!ATC	2	2006; 2208
Eco47I	G!GWCC	5	1200; 1709; 1890; 4204; 4649
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	3594
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	1120; 1585; 3834; 4266
Eco57I	!NNNNNNNNNNNNNNNCTTCAG	2	1379; 5064
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	5	869; 1429; 1715; 3168; 4800
Eco88I	C!YCGRG	2	1334; 2183
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	8	360; 611; 1361; 1409; 3417; 3510; 4120; 4525
Eco147I	AGG!CCT	2	1039; 3509
EcoHI	!CCSGG	9	834; 1182; 1705; 1957; 2210; 3690; 3850; 4463; 5227
EcoICRI	GAG!CTC	1	1339
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	7	1120; 1585; 1925; 2294; 3834; 4266; 4528
Eco57MI	!NNNNNNNNNNNNNNNCTYCAG	4	928; 1379; 4471; 5064
EcoNI	CCTNN!NNNAGG	2	1432; 1897
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	1890; 4786
EcoRI	G!AATTC	1	1350
EcoRII	!CCWGG	18	88; 281; 785; 929; 944; 1073; 1508; 1697; 1886; 3222; 3277; 3294; 4073; 4652; 4755; 5445; 5458; 5579
EcoRV	GAT!ATC	2	2006; 2208
EcoT14I	C!CWWGG	8	360; 611; 1361; 1409; 3417; 3510; 4120; 4525
EcoT22I	ATGCA!T	3	3260; 3332; 5663
EcoT38I	GRGCY!C	5	1341; 1451; 2879; 4053; 4763
Eco53kI	GAG!CTC	1	1339
EgeI	GGC!GCC	1	3689
EheI	GGC!GCC	1	3689
ErhI	C!CWWGG	8	360; 611; 1361; 1409; 3417; 3510; 4120; 4525
EsaBC3I	TC!GA	19	753; 780; 1248; 1336; 1349; 1590; 2132; 2185; 2838; 3529; 3802; 3958; 3982; 4018; 4180; 4371; 4416; 4671; 5509
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNGAGACG	1	1042
FaeI	CATG!	32	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1365; 1413; 1443; 1659; 1803; 1984; 2091; 2202; 3118; 3258; 3330; 3421; 3562; 3907; 4093; 4124; 4150; 4506; 4890; 5610; 5661

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FaI	YA!TR	79	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; 1357; 1363; 1411; 1441; 1631; 1657; 1732; 1757; 1801; 1898; 1982; 2077; 2089; 2106; 2126; 2200; 2234; 2350; 2360; 2426; 2471; 2676; 3104; 3116; 3247; 3256; 3319; 3328; 3352; 3419; 3443; 3560; 3624; 3905; 3930; 4091; 4122; 4148; 4220; 4436; 4504; 4582; 4634; 4795; 4812; 4814; 4816; 4888; 5166; 5355; 5471; 5544; 5608; 5659
FaII	AAGNNNNNCTTNNNNNNNNNNNN!	3	879; 2311; 4028
FaII	!NNNNNNNNNAAGNNNNNCTT	3	847; 2279; 3996
FaqI	GGGACNNNNNNNNNN!	8	175; 326; 494; 1561; 1935; 3839; 4371; 4480
FaqI	!NNNNNNNNNNNNNGTCCC	4	3204; 3276; 3340; 4635
FatI	!CATG	32	300; 360; 611; 638; 644; 656; 734; 800; 880; 1084; 1091; 1361; 1409; 1439; 1655; 1799; 1980; 2087; 2198; 3114; 3254; 3326; 3417; 3558; 3903; 4089; 4120; 4146; 4502; 4886; 5606; 5657
FauI	CCCGCNNNN!	10	93; 119; 286; 1068; 1170; 3010; 3365; 3386; 4582; 4714
FauI	!NNNNNNNGCGGG	6	1105; 2941; 3811; 4348; 4486; 4633
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2345
FblI	GT!MKAC	1	1190
FmuI	GGNC!C	16	86; 279; 763; 1006; 1098; 1119; 1203; 1655; 1712; 1893; 2798; 4207; 4652; 4698; 4756; 4789
Fnu4HI	GC!NGC	37	759; 810; 954; 1071; 1252; 1391; 1645; 1683; 1750; 2465; 2984; 3006; 3020; 3458; 3597; 3649; 3660; 3750; 3755; 3792; 3833; 3920; 3923; 3926; 4162; 4258; 4299; 4313; 4427; 4766; 4781; 4992; 5198; 5201; 5266; 5409; 5564
FokI	GGATGNNNNNNNN!	7	1620; 1855; 1894; 3555; 4012; 4037; 4491
FokI	!NNNNNNNNNNNNNNCATCC	4	681; 769; 826; 3361
FriOI	GRGCY!C	5	1341; 1451; 2879; 4053; 4763
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3790
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 2336; 2537; 2955; 3511; 4526; 4860; 5113
FspEI	CCNNNNNNNNNNNN!	177	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; 1374; 1422; 1440; 1470; 1495; 1512; 1539; 1576; 1631; 1668; 1699; 1716; 1738; 1755; 1780; 1819; 1899; 1971; 1987; 2163; 2224; 2340; 2371; 2410; 2424; 2565; 2660; 2684; 2707; 2730; 2748; 2770; 2791; 2810; 2829; 2858; 2879; 2893; 2919; 3007; 3033; 3082; 3123; 3141; 3180; 3196; 3234; 3291; 3306; 3363; 3383; 3397; 3414; 3428; 3465; 3480; 3523; 3606; 3673; 3704; 3724; 3739; 3784; 3798; 3864; 3878; 3897; 3913; 3954; 3974; 4021; 4071; 4087; 4107; 4132; 4152; 4175; 4202; 4220; 4246; 4286; 4312; 4336; 4392; 4406; 4434; 4477; 4498; 4533; 4577; 4665; 4689; 4711; 4731; 4747; 4768; 4782; 4801; 4885; 4905; 4933; 4948; 4982; 5024; 5051; 5066; 5111; 5135; 5149; 5171; 5197; 5217; 5241; 5267; 5315; 5334; 5353; 5379; 5414; 5459; 5489; 5503; 5554; 5568; 5593; 5609; 5630; 5659
FspEI	!NNNNNNNNNNNNNNNGG	161	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; 1342; 1361; 1382; 1416; 1436; 1495; 1526; 1565; 1588; 1606; 1635; 1663; 1684; 1702; 1742; 1801; 1820; 1843; 1864; 1885; 1903; 1944; 1986; 2033; 2056; 2076; 2122; 2161; 2188; 2219; 2245; 2268; 2291; 2315; 2359; 2459; 2528; 2636; 2685; 2707; 2735; 2771; 2816; 2845; 2881; 2900; 2928; 2948; 3011; 3034; 3142; 3174; 3192; 3221; 3264; 3293; 3404; 3433; 3476; 3497; 3525; 3558; 3578; 3603; 3630; 3655; 3677; 3705; 3731; 3752; 3803; 3824; 3842; 3890; 3926; 3982; 4007; 4031; 4060; 4083; 4107; 4133; 4155; 4174; 4199; 4239; 4275; 4340; 4425; 4449; 4478; 4512; 4533; 4553; 4598; 4625; 4644; 4677; 4729; 4760; 4787; 4839; 4937; 5008; 5053; 5114; 5179; 5213; 5239; 5257; 5293; 5363; 5386; 5408; 5432; 5465; 5513; 5548; 5566; 5623
Fsp4HI	GC!NGC	37	759; 810; 954; 1071; 1252; 1391; 1645; 1683; 1750; 2465; 2984; 3006; 3020; 3458; 3597; 3649; 3660; 3750; 3755; 3792; 3833; 3920; 3923; 3926; 4162; 4258; 4299; 4313; 4427; 4766; 4781; 4992; 5198; 5201; 5266; 5409; 5564

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GdiI	C!GGCCR	1	3594
GdiI	Y!GGCCG	3	3594; 4159; 4186
GlaI	GC!GC	25	596; 1083; 1290; 1507; 1729; 2953; 2961; 2987; 3009; 3018; 3031; 3062; 3681; 3689; 3753; 3790; 4056; 4316; 4492; 4578; 4981; 5090; 5264; 5364; 5431
GluI	GC!NGC	37	759; 810; 954; 1071; 1252; 1391; 1645; 1683; 1750; 2465; 2984; 3006; 3020; 3458; 3597; 3649; 3660; 3750; 3755; 3792; 3833; 3920; 3923; 3926; 4162; 4258; 4299; 4313; 4427; 4766; 4781; 4992; 5198; 5201; 5266; 5409; 5564
GsaI	CCCAG!C	5	997; 1506; 3235; 3307; 5306
GsaI	GCTGG!G	2	1035; 4196
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	1925; 2294; 4528
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	928; 4471
HaeI	WGG!CCW	10	1039; 1270; 1360; 1438; 1702; 3509; 3770; 5132; 5584; 5595
HaeII	RGCG!Y	7	598; 1292; 1509; 2955; 2963; 3691; 5366
HaeIII	GG!CC	31	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1360; 1438; 1654; 1702; 2654; 2796; 3451; 3457; 3466; 3509; 3596; 3770; 4161; 4188; 4697; 4754; 4787; 5132; 5566; 5584; 5595
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	3	1585; 2341; 3884
HaeIV	!NNNNNNNNNGAYNNNNNRTC	4	1551; 2307; 2329; 3850
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	3	1584; 2340; 3883
HaeIV	!NNNNNNNGAYNNNNNRTC	4	1553; 2309; 2331; 3852
HapII	C!CGG	26	601; 835; 1184; 1322; 1667; 1707; 1725; 1959; 2211; 2330; 2906; 3593; 3670; 3692; 3720; 3851; 3941; 4008; 4189; 4464; 4472; 4564; 5038; 5228; 5254; 5401
HgaI	GACGCNNNNN!	5	526; 1474; 1623; 4398; 4477
HgaI	!NNNNNNNNNGCGTC	5	1176; 1467; 3021; 4916; 5494
HhaI	GCG!C	25	597; 1084; 1291; 1508; 1730; 2954; 2962; 2988; 3010; 3019; 3032; 3063; 3682; 3690; 3754; 3791; 4057; 4317; 4493; 4579; 4982; 5091; 5265; 5365; 5432
HinI	GR!CGYC	10	122; 175; 258; 444; 1187; 1466; 1615; 3688; 4390; 4469
HinIII	CATG!	32	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1365; 1413; 1443; 1659; 1803; 1984; 2091; 2202; 3118; 3258; 3330; 3421; 3562; 3907; 4093; 4124; 4150; 4506; 4890; 5610; 5661
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	5	1584; 1800; 2198; 2340; 3883
Hin4I	!NNNNNNNGABNNNNNRTC	6	1367; 1552; 2308; 2330; 3851; 3881
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	5	1399; 1584; 2340; 3883; 3913
Hin4I	!NNNNNNNGAYNNNNNVTC	6	1552; 1768; 2166; 2308; 2330; 3851
Hin6I	G!CGC	25	595; 1082; 1289; 1506; 1728; 2952; 2960; 2986; 3008; 3017; 3030; 3061; 3680; 3688; 3752; 3789; 4055; 4315; 4491; 4577; 4980; 5089; 5263; 5363; 5430
HinP1I	G!CGC	25	595; 1082; 1289; 1506; 1728; 2952; 2960; 2986; 3008; 3017; 3030; 3061; 3680; 3688; 3752; 3789; 4055; 4315; 4491; 4577; 4980; 5089; 5263; 5363; 5430
HincII	GTY!RAC	1	2451
HindII	GTY!RAC	1	2451
HindIII	A!AGCTT	1	1343
Hinfl	G!ANTC	17	410; 740; 890; 1217; 1325; 1400; 2228; 2731; 2753; 3163; 4173; 4307; 4359; 4417; 4454; 5236; 5632
HpaI	GTT!AAC	1	2451
HpaII	C!CGG	26	601; 835; 1184; 1322; 1667; 1707; 1725; 1959; 2211; 2330; 2906; 3593; 3670; 3692; 3720; 3851; 3941; 4008; 4189; 4464; 4472; 4564; 5038; 5228; 5254; 5401
HphI	GGTGANNNNNNNN!	9	376; 627; 996; 1306; 1608; 1944; 2275; 4759; 4875
HphI	!NNNNNNNTCACC	4	885; 1963; 2805; 3866
Hpy8I	GTN!NAC	13	201; 539; 577; 672; 692; 987; 1191; 1200; 2451; 2735; 2752; 2807; 5294
Hpy99I	CGWCG!	10	754; 1234; 1249; 3778; 3806; 4100; 4115; 4392; 4777; 5510
Hpy166II	GTN!NAC	13	201; 539; 577; 672; 692; 987; 1191; 1200; 2451; 2735; 2752; 2807; 5294
Hpy188I	TCN!GA	17	585; 699; 1330; 1572; 1788; 2040; 2170; 2862; 3471; 3655; 3999; 4352; 4453; 4932; 5066; 5419; 5497
Hpy188III	TC!NNGA	30	1176; 1322; 1334; 1397; 1518; 1858; 1872; 2183; 2223; 2273; 2336; 3115; 3167; 3480; 3533; 3706; 4022; 4031; 4114; 4170; 4214; 4304; 4337; 4406; 4887; 4961; 5044; 5142; 5240; 5374
HpyAV	CCTTCNNNNNN!	6	780; 828; 873; 4333; 4440; 5119

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HpyAV	!NNNNNGAAGG	15	700; 1072; 1428; 1643; 1653; 1840; 2007; 2130; 2921; 3816; 4545; 4561; 4744; 5061; 5371
HpyCH4III	ACN!GT	17	76; 198; 269; 543; 581; 669; 1383; 1623; 1947; 2779; 4068; 4184; 4292; 4615; 5106; 5576; 5647
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 1634; 2748; 2760; 2803; 2913; 3804; 3991; 4772; 4905
HpyCH4V	TG!CA	23	692; 1014; 1130; 1638; 1980; 2087; 2104; 2437; 2464; 2532; 3249; 3258; 3321; 3330; 3445; 3521; 3580; 3739; 3914; 3928; 4998; 5294; 5661
HpyF3I	C!TNAG	11	869; 1327; 1429; 1576; 1715; 3168; 3470; 4351; 4800; 4923; 5332
HpyF10VI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 648; 1079; 1541; 1623; 1644; 2071; 2110; 2915; 2945; 2972; 3014; 3255; 3327; 3378; 3457; 3679; 3763; 3786; 3925; 4048; 4131; 4398; 4585; 4789; 4988; 5560
Hsp92I	GR!CGYC	10	122; 175; 258; 444; 1187; 1466; 1615; 3688; 4390; 4469
Hsp92II	CATG!	32	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1365; 1413; 1443; 1659; 1803; 1984; 2091; 2202; 3118; 3258; 3330; 3421; 3562; 3907; 4093; 4124; 4150; 4506; 4890; 5610; 5661
HspAI	G!CGC	25	595; 1082; 1289; 1506; 1728; 2952; 2960; 2986; 3008; 3017; 3030; 3061; 3680; 3688; 3752; 3789; 4055; 4315; 4491; 4577; 4980; 5089; 5263; 5363; 5430
KasI	G!GCGCC	1	3687
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1321
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	2345
KspAI	GTT!AAC	1	2451
Kzo9I	!GATC	26	585; 1124; 1150; 1330; 1514; 1694; 1721; 2323; 2332; 2345; 3525; 3529; 3548; 3859; 3937; 4018; 4027; 4105; 4481; 4497; 4856; 4868; 4946; 4954; 4965; 5040
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	4032; 4242
LpnI	RG!GICY	7	596; 1290; 1507; 2953; 2961; 3689; 5364
LpnPI	CCDGNNNNNNNNNN!	73	102; 295; 614; 742; 799; 848; 881; 943; 958; 1007; 1087; 1111; 1135; 1197; 1284; 1335; 1435; 1516; 1576; 1680; 1711; 1727; 1759; 1819; 1900; 1972; 1987; 2224; 2343; 2425; 2730; 2919; 3142; 3180; 3196; 3236; 3291; 3308; 3408; 3493; 3606; 3683; 3705; 3728; 3864; 3878; 3897; 3954; 4021; 4071; 4087; 4144; 4202; 4411; 4477; 4501; 4577; 4666; 4769; 4802; 5033; 5051; 5197; 5217; 5241; 5267; 5316; 5414; 5459; 5489; 5568; 5593; 5630
LpnPI	!NNNNNNNNNNNNNNCHGG	71	75; 268; 552; 586; 772; 820; 916; 1017; 1060; 1169; 1195; 1268; 1307; 1382; 1495; 1530; 1579; 1652; 1684; 1710; 1801; 1843; 1864; 1889; 1944; 2033; 2056; 2196; 2258; 2315; 2771; 2891; 2948; 3011; 3209; 3221; 3281; 3293; 3525; 3570; 3613; 3655; 3677; 3705; 3752; 3814; 3836; 3926; 3993; 4016; 4060; 4155; 4174; 4199; 4348; 4449; 4492; 4549; 4639; 4742; 4769; 4787; 5023; 5060; 5213; 5239; 5379; 5397; 5432; 5513; 5566
Lsp1109I	GCAGCNNNNNNNN!	9	821; 1263; 1761; 2476; 3761; 3803; 4324; 4777; 5277
Lsp1109I	!NNNNNNNNNNNGCTGC	10	940; 1377; 1631; 1669; 2970; 3635; 3819; 3912; 4978; 5184
LweI	GCATCNNNNN!	7	848; 2504; 3267; 3339; 3987; 4051; 4326
LweI	!NNNNNNNNNGATGC	11	357; 1001; 1169; 1407; 1854; 1872; 2052; 3646; 3901; 4117; 5509
MabI	A!CCWGGT	1	3277
MaeI	C!TAG	8	592; 2336; 2537; 2955; 3511; 4526; 4860; 5113
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 1634; 2748; 2760; 2803; 2913; 3804; 3991; 4772; 4905
MaeIII	!GTNAC	15	61; 148; 497; 891; 1087; 2263; 2476; 2977; 2989; 3808; 4114; 4804; 5070; 5186; 5249
MalI	GA!TC	26	587; 1126; 1152; 1332; 1516; 1696; 1723; 2325; 2334; 2347; 3527; 3531; 3550; 3861; 3939; 4020; 4029; 4107; 4483; 4499; 4858; 4870; 4948; 4956; 4967; 5042
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3112; 4301

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MbiI	GAG!CGG	2	2948; 4355
MboI	!GATC	26	585; 1124; 1150; 1330; 1514; 1694; 1721; 2323; 2332; 2345; 3525; 3529; 3548; 3859; 3937; 4018; 4027; 4105; 4481; 4497; 4856; 4868; 4946; 4954; 4965; 5040
MboII	GAAGANNNNNNN!	12	916; 1029; 1426; 1474; 1783; 1923; 2071; 2944; 3172; 4049; 4259; 4878
MboII	!NNNNNNNTCTTC	4	4339; 4506; 4706; 4949
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2438
MflI	R!GATCY	14	585; 1150; 1330; 1694; 1721; 2323; 2332; 3859; 4105; 4497; 4856; 4868; 4954; 4965
MhII	GDGCH!C	16	667; 694; 727; 1341; 1451; 1537; 2149; 2217; 2879; 3634; 3727; 3801; 3991; 4053; 4763; 5296
MIsI	TGG!CCA	3	1270; 1360; 3770
MluI	A!CGCGT	1	2574
MluNI	TGG!CCA	3	1270; 1360; 3770
MlyI	GAGTCNNNNN!	3	899; 2740; 3172
MlyI	!NNNNNGACTC	6	404; 1319; 2222; 2747; 4353; 5230
Mly113I	GG!CGCC	1	3688
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	2781
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	3	2183; 5213; 5397
MnII	CCTCNNNNNN!	15	773; 842; 952; 967; 1050; 1183; 1713; 2173; 2407; 3471; 4289; 4495; 4809; 5179; 5503
MnII	!NNNNNGAGG	33	541; 654; 693; 714; 747; 864; 973; 1029; 1218; 1251; 1294; 1306; 1369; 1424; 1671; 1710; 1832; 1893; 1923; 2084; 2302; 2367; 2832; 3163; 3441; 3484; 3499; 3539; 3603; 3739; 4096; 4526; 5429
Mph1103I	ATGCA!T	3	3260; 3332; 5663
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1321
MroNI	G!CCGGC	4	1666; 2905; 4188; 4471
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	3	1270; 1360; 3770
MseI	T!TAA	19	7; 629; 854; 2033; 2319; 2389; 2450; 2571; 2592; 2603; 2615; 2626; 2643; 2741; 3012; 4831; 4845; 4850; 4902
MslI	CAYNN!NNRTG	5	365; 613; 643; 2170; 4125
MspI	C!CGG	26	601; 835; 1184; 1322; 1667; 1707; 1725; 1959; 2211; 2330; 2906; 3593; 3670; 3692; 3720; 3851; 3941; 4008; 4189; 4464; 4472; 4564; 5038; 5228; 5254; 5401
Msp20I	TGG!CCA	3	1270; 1360; 3770
MspA1I	CMG!CKG	6	1063; 1831; 3186; 3794; 5023; 5268
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	290	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; 1361; 1374; 1398; 1422; 1435; 1452; 1469; 1495; 1514; 1530; 1557; 1575; 1588; 1602; 1630; 1647; 1660; 1679; 1698; 1711; 1726; 1741; 1754; 1774; 1799; 1812; 1828; 1844; 1870; 1884; 1898; 1916; 1937; 1954; 1970; 1986; 2010; 2023; 2038; 2051; 2083; 2100; 2117; 2154; 2176; 2195; 2211; 2224; 2262; 2280; 2295; 2308; 2342; 2356; 2371; 2395; 2412; 2425; 2466; 2480; 2493; 2511; 2549; 2564; 2582; 2623; 2647; 2667; 2685; 2706; 2729; 2761; 2776; 2798; 2816; 2829; 2850; 2867; 2880; 2893; 2909; 2922; 2952; 2967; 2992; 3010; 3023; 3038; 3062; 3076; 3100; 3125; 3141; 3179; 3195; 3234; 3248; 3262; 3290; 3306; 3320; 3334; 3363; 3376; 3397; 3406; 3428; 3458; 3474; 3492; 3522; 3545; 3569; 3593; 3612; 3640; 3666; 3682; 3695; 3718; 3732; 3752; 3765; 3779; 3798; 3812; 3825; 3841; 3856; 3869; 3885; 3900; 3916; 3941; 3960; 3976; 3989; 4002; 4020; 4034; 4048; 4064; 4086; 4102; 4121; 4143; 4159; 4182; 4201; 4215; 4231; 4245; 4265; 4281; 4294; 4316; 4349; 4363; 4383; 4396; 4410; 4464; 4477; 4500; 4513; 4532; 4549; 4576; 4612; 4645; 4664; 4689; 4710; 4737; 4750; 4767; 4781; 4796; 4812; 4872; 4897; 4913; 4935; 4948; 4962; 4993; 5007; 5032; 5050; 5065; 5078; 5097; 5110; 5125; 5154; 5173; 5191; 5216; 5231; 5250; 5266; 5285; 5303; 5319; 5333; 5352; 5379; 5402; 5424; 5443; 5458; 5471; 5488; 5508; 5535; 5548; 5567; 5592; 5615; 5629; 5642; 5659
MspJI	!NNNNNNNNNNNNYNG	235	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; 1348; 1382; 1408; 1426; 1461; 1489; 1516; 1537; 1556; 1574; 1606; 1625; 1642; 1663; 1684; 1702; 1719; 1742; 1767; 1786; 1810; 1843; 1860; 1879; 1904; 1938; 1960; 2024; 2042; 2074; 2096; 2128; 2154; 2171; 2189; 2209; 2230; 2258; 2282; 2306; 2340; 2369; 2398; 2440; 2523; 2561; 2585; 2608; 2637; 2681; 2703; 2735; 2771; 2788; 2809; 2846; 2866; 2883; 2900; 2935; 2953; 2971; 2988; 3012; 3034; 3061; 3089; 3115; 3153; 3174; 3191; 3209; 3232; 3253; 3281; 3304; 3325; 3343; 3364; 3381; 3404; 3428; 3448; 3466; 3488; 3519; 3541; 3567; 3586; 3603; 3631; 3650; 3669; 3687; 3705; 3726; 3748; 3772; 3805; 3825; 3843; 3864; 3890; 3917; 3934; 3951; 3968; 3994; 4016; 4038; 4056; 4076; 4095; 4117; 4155; 4175; 4199; 4219; 4239; 4266; 4290; 4323; 4342; 4370; 4392; 4421; 4449; 4474; 4493; 4512; 4533; 4550; 4567; 4598; 4625; 4645; 4668; 4688; 4725; 4742; 4761; 4787; 4807; 4846; 4873; 4892; 4910; 4947; 4965; 5006; 5024; 5050; 5067; 5099; 5128; 5156; 5177; 5200; 5219; 5240; 5258; 5275; 5293; 5319; 5340; 5360; 5380; 5398; 5419; 5445; 5462; 5481; 5500; 5529; 5548; 5566; 5585; 5603; 5621; 5644
MspR9I	CC!NGG	27	90; 283; 787; 836; 931; 946; 1075; 1184; 1510; 1699; 1707; 1888; 1959; 2212; 3224; 3279; 3296; 3692; 3852; 4075; 4465; 4654; 4757; 5229; 5447; 5460; 5581
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2438
MvaI	CC!WGG	18	90; 283; 787; 931; 946; 1075; 1510; 1699; 1888; 3224; 3279; 3296; 4075; 4654; 4757; 5447; 5460; 5581
MvaI269I	GAATGCN!	1	2439
MvaI269I	G!CATTC	1	2532
MvnI	CG!CG	15	60; 2576; 2612; 2988; 3008; 3032; 3063; 3754; 4055; 4493; 4577; 4640; 4709; 4982; 5563
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 648; 1079; 1541; 1623; 1644; 2071; 2110; 2915; 2945; 2972; 3014; 3255; 3327; 3378; 3457; 3679; 3763; 3786; 3925; 4048; 4131; 4398; 4585; 4789; 4988; 5560
NaeI	GCC!GGC	4	1668; 2907; 4190; 4473
NarI	GG!CGCC	1	3688
NciI	CC!SGG	9	836; 1184; 1707; 1959; 2212; 3692; 3852; 4465; 5229
NcoI	C!CATGG	6	360; 611; 1361; 1409; 3417; 4120

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeI	CA!TATG	1	234
NdeII	!GATC	26	585; 1124; 1150; 1330; 1514; 1694; 1721; 2323; 2332; 2345; 3525; 3529; 3548; 3859; 3937; 4018; 4027; 4105; 4481; 4497; 4856; 4868; 4946; 4954; 4965; 5040
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	2	280; 1914
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	731
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	767
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	2	244; 1878
NgoMIV	G!CCGGC	4	1666; 2905; 4188; 4471
NheI	G!CTAGC	1	591
NlaIII	CATG!	32	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1365; 1413; 1443; 1659; 1803; 1984; 2091; 2202; 3118; 3258; 3330; 3421; 3562; 3907; 4093; 4124; 4150; 4506; 4890; 5610; 5661
NlaIV	GGN!NCC	25	467; 666; 726; 1117; 1320; 1455; 1665; 1711; 1765; 1963; 2148; 2325; 2843; 2864; 2876; 3067; 3228; 3300; 3689; 3724; 4572; 4651; 4696; 5539; 5578
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2520; 2835; 4427
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	5	347; 991; 1277; 2155; 5499
Nli3877I	CYCGR!G	2	1338; 2187
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3477; 3913
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	3	1007; 1430; 3442
NmeDI	RCCGGYNNNNNNNN!	6	612; 1678; 2917; 4019; 4200; 4483
NmeDI	!NNNNNNNNNNNNRCCGGY	6	587; 1653; 2892; 3994; 4175; 4458
NmuCI	!GTSAC	6	891; 1087; 2263; 2977; 3808; 4114
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3790
NsiI	ATGCA!T	3	3260; 3332; 5663
NspI	RCATG!Y	8	642; 1088; 1984; 2202; 3258; 3330; 4093; 5610
NspV	TT!CGAA	2	1348; 4370
OliI	CACNN!NNGTG	1	613
PabI	GTA!C	13	220; 245; 300; 333; 384; 541; 656; 806; 1058; 1381; 2249; 2292; 3995
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3258; 3330; 4093
PaeR7I	C!TCGAG	2	1334; 2183
PagI	T!CATGA	2	3114; 4886
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4653; 4756
PauI	G!CGCGC	0	
PceI	AGG!CCT	2	1039; 3509
PciI	A!CATGT	2	2198; 5606
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	4032; 4242
PcsI	WCGNNNN!NNNCGW	8	1253; 1868; 3982; 4059; 4302; 4376; 4769; 5287
PctI	GAATGCN!	1	2439
PctI	G!CATTC	1	2532
PdiI	GCC!GGC	4	1668; 2907; 4190; 4473
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	8	740; 1217; 1400; 4173; 4307; 4417; 4454; 5632
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3806
PfIMI	CCANNNN!NTGG	1	1209
PfoI	T!CCNGGA	4	944; 1705; 1957; 4463
PhoI	GG!CC	31	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1360; 1438; 1654; 1702; 2654; 2796; 3451; 3457; 3466; 3509; 3596; 3770; 4161; 4188; 4697; 4754; 4787; 5132; 5566; 5584; 5595
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	2	2192; 4069
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	3	1653; 3634; 3889
PleI	GAGTCNNNN!	3	898; 2739; 3171
PleI	!NNNNNGACTC	6	404; 1319; 2222; 2747; 4353; 5230
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2770
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	4900
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4932
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2738
PpsI	GAGTCNNNN!	3	898; 2739; 3171
PpsI	!NNNNNGACTC	6	404; 1319; 2222; 2747; 4353; 5230
Ppu10I	A!TGCAT	3	3256; 3328; 5659
Ppu21I	YAC!GTR	3	340; 2804; 3992
PpuMI	RG!GWCCY	1	1890
Psci	A!CATGT	2	2198; 5606
PshAI	GACNN!NNGTC	1	1243
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2471; 2676
Psp03I	GGWC!C	5	1203; 1712; 1893; 4207; 4652
Psp5II	RG!GWCCY	1	1890
Psp6I	!CCWGG	18	88; 281; 785; 929; 944; 1073; 1508; 1697; 1886; 3222; 3277; 3294; 4073; 4652; 4755; 5445; 5458; 5579
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1341
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	18	88; 281; 785; 929; 944; 1073; 1508; 1697; 1886; 3222; 3277; 3294; 4073; 4652; 4755; 5445; 5458; 5579
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	25	467; 666; 726; 1117; 1320; 1455; 1665; 1711; 1765; 1963; 2148; 2325; 2843; 2864; 2876; 3067; 3228; 3300; 3689; 3724; 4572; 4651; 4696; 5539; 5578
PspOMI	G!GGCCC	0	
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	4	125; 1526; 3418; 4417
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3820
PspPI	G!GNCC	16	83; 276; 760; 1003; 1095; 1116; 1200; 1652; 1709; 1890; 2795; 4204; 4649; 4695; 4753; 4786
PspPPI	RG!GWCCY	1	1890
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	3241; 3313; 4819
PspPRI	!NNNNNNNNNNNNNCTGRGG	5	855; 1415; 1701; 3154; 4349
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	1	2282
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	1	2314
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
Pssl	RGGNC!CY	2	1893; 4789
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	4	1428; 1893; 4789; 5197
PsuI	R!GATCY	14	585; 1150; 1330; 1694; 1721; 2323; 2332; 3859; 4105; 4497; 4856; 4868; 4954; 4965
PsyI	GACN!NNGTC	1	3806
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1831; 3186; 3794
RcaI	T!CATGA	2	3114; 4886
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4203
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	2417
RleAI	!NNNNNNNNNTGTGGG	1	1592
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	13	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1380; 2248; 2291; 3994
RsaNI	G!TAC	13	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1379; 2247; 2290; 3993

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RseI	CAYNN!NNRTG	5	365; 613; 643; 2170; 4125
RsrII	CG!GWCCG	1	4204
Rsr2I	CG!GWCCG	1	4204
SacI	GAGCT!C	1	1341
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	4032; 4242
SaqAI	T!TAA	19	7; 629; 854; 2033; 2319; 2389; 2450; 2571; 2592; 2603; 2615; 2626; 2643; 2741; 3012; 4831; 4845; 4850; 4902
SatI	GC!NGC	37	759; 810; 954; 1071; 1252; 1391; 1645; 1683; 1750; 2465; 2984; 3006; 3020; 3458; 3597; 3649; 3660; 3750; 3755; 3792; 3833; 3920; 3923; 3926; 4162; 4258; 4299; 4313; 4427; 4766; 4781; 4992; 5198; 5201; 5266; 5409; 5564
Sau96I	G!GNCC	16	83; 276; 760; 1003; 1095; 1116; 1200; 1652; 1709; 1890; 2795; 4204; 4649; 4695; 4753; 4786
Sau3AI	!GATC	26	585; 1124; 1150; 1330; 1514; 1694; 1721; 2323; 2332; 2345; 3525; 3529; 3548; 3859; 3937; 4018; 4027; 4105; 4481; 4497; 4856; 4868; 4946; 4954; 4965; 5040
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	1	2291
SchI	GAGTCNNNNN!	3	899; 2740; 3172
SchI	!NNNNGACTC	6	404; 1319; 2222; 2747; 4353; 5230
SciI	CTC!GAG	2	1336; 2185
ScrFI	CC!NGG	27	90; 283; 787; 836; 931; 946; 1075; 1184; 1510; 1699; 1707; 1888; 1959; 2212; 3224; 3279; 3296; 3692; 3852; 4075; 4465; 4654; 4757; 5229; 5447; 5460; 5581
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	7	1041; 1536; 2037; 3266; 3338; 3507; 5449
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	3843; 4328
SdeOSI	GACNNNRTGANNNNNNNNNNN!	2	279; 1913
SdeOSI	!NNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	2	245; 1879
SduI	GDGCH!C	16	667; 694; 727; 1341; 1451; 1537; 2149; 2217; 2879; 3634; 3727; 3801; 3991; 4053; 4763; 5296
SelI	!CGCG	15	58; 2574; 2610; 2986; 3006; 3030; 3061; 3752; 4053; 4491; 4575; 4638; 4707; 4980; 5561
SetI	ASST!	82	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; 1380; 1392; 1565; 1598; 1637; 1646; 1744; 1833; 1895; 1934; 1976; 2056; 2123; 2378; 2399; 2408; 2420; 2469; 2636; 2751; 2763; 2806; 2843; 2893; 2916; 3040; 3188; 3283; 3476; 3589; 3717; 3796; 3807; 3879; 3950; 3994; 4254; 4400; 4444; 4775; 4806; 4865; 4908; 5051; 5072; 5171; 5308; 5323; 5342; 5354; 5398; 5444; 5495
SexAI	A!CCWGGT	1	3277
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	848; 2504; 3267; 3339; 3987; 4051; 4326
SfaNI	!NNNNNNNNNGATGC	11	357; 1001; 1169; 1407; 1854; 1872; 2052; 3646; 3901; 4117; 5509
Sfci	C!TRYAG	5	2075; 2280; 3023; 5150; 5341
SfiI	GGCCNNNN!NGGCC	1	3463
SfoI	GGC!GCC	1	3689
Sfr274I	C!TCGAG	2	1334; 2183
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	2	1348; 4370

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	225	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; 1374; 1409; 1422; 1440; 1462; 1495; 1515; 1530; 1557; 1575; 1602; 1632; 1647; 1668; 1710; 1726; 1758; 1780; 1812; 1828; 1844; 1870; 1884; 1899; 1916; 1970; 1986; 2060; 2083; 2100; 2154; 2195; 2211; 2224; 2262; 2285; 2308; 2342; 2395; 2424; 2466; 2549; 2587; 2623; 2707; 2729; 2761; 2798; 2816; 2835; 2850; 2892; 2909; 2926; 2961; 2975; 2992; 3014; 3038; 3062; 3127; 3141; 3179; 3195; 3235; 3248; 3267; 3290; 3307; 3320; 3339; 3369; 3390; 3407; 3430; 3465; 3492; 3523; 3545; 3571; 3593; 3612; 3640; 3676; 3695; 3718; 3732; 3752; 3765; 3779; 3798; 3812; 3831; 3863; 3877; 3890; 3916; 3947; 3960; 3977; 3994; 4008; 4025; 4043; 4058; 4086; 4102; 4121; 4143; 4159; 4182; 4201; 4226; 4245; 4265; 4292; 4316; 4349; 4368; 4396; 4410; 4476; 4500; 4515; 4538; 4559; 4576; 4624; 4651; 4665; 4694; 4718; 4751; 4768; 4788; 4801; 4814; 4872; 4899; 4918; 4948; 4973; 4993; 5007; 5032; 5050; 5087; 5125; 5154; 5182; 5196; 5216; 5231; 5252; 5266; 5285; 5303; 5319; 5359; 5379; 5406; 5424; 5445; 5458; 5471; 5488; 5512; 5535; 5567; 5592; 5619; 5641
SgeI	!NNNNNNNNNNNNCNG	197	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; 1348; 1383; 1408; 1426; 1469; 1489; 1516; 1537; 1576; 1606; 1625; 1642; 1684; 1711; 1732; 1754; 1786; 1818; 1844; 1865; 1890; 1944; 1967; 2034; 2057; 2074; 2128; 2169; 2197; 2236; 2259; 2282; 2316; 2369; 2398; 2440; 2523; 2561; 2597; 2681; 2703; 2735; 2772; 2790; 2809; 2866; 2883; 2900; 2935; 2953; 2973; 2993; 3012; 3036; 3101; 3153; 3209; 3241; 3264; 3281; 3313; 3343; 3364; 3381; 3404; 3439; 3466; 3497; 3519; 3545; 3567; 3586; 3614; 3650; 3669; 3692; 3713; 3731; 3748; 3772; 3805; 3837; 3864; 3890; 3921; 3951; 3968; 3994; 4017; 4038; 4060; 4080; 4100; 4117; 4156; 4175; 4200; 4219; 4239; 4266; 4290; 4323; 4342; 4370; 4392; 4450; 4474; 4493; 4512; 4533; 4550; 4598; 4625; 4645; 4668; 4692; 4725; 4742; 4762; 4788; 4846; 4873; 4892; 4922; 4947; 4967; 5006; 5024; 5061; 5099; 5128; 5156; 5177; 5205; 5226; 5259; 5277; 5333; 5353; 5380; 5398; 5419; 5445; 5462; 5486; 5509; 5541; 5566; 5593; 5615; 5644
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2835; 4622; 5415
SimI	!GACCC	6	106; 1424; 1709; 4116; 4684; 4932
SinI	G!GWCC	5	1200; 1709; 1890; 4204; 4649
SlaI	C!TCGAG	2	1334; 2183
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 613; 643; 2170; 4125
SmlI	C!TYRAG	9	1135; 1174; 1334; 1340; 2183; 4079; 4961; 5238; 5500
SmoI	C!TYRAG	9	1135; 1174; 1334; 1340; 2183; 4079; 4961; 5238; 5500
SmuI	CCCGCNNNN!	10	93; 119; 286; 1068; 1170; 3010; 3365; 3386; 4582; 4714
SmuI	!NNNNNNGCGGG	6	1105; 2941; 3811; 4348; 4486; 4633
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3258; 3330; 4093
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	15	18; 1350; 1688; 1851; 1936; 2192; 2438; 2502; 2580; 2606; 2617; 3264; 3336; 3428; 4846
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	1	1890
SseBI	AGG!CCT	2	1039; 3509

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1491; 1499; 3003; 3006; 3020; 3110; 3358; 3370; 3379; 3391; 3401; 3412; 3458; 3597; 3660; 4162; 4207; 4273; 4299; 4424; 4427; 4575; 4707; 5014; 5158; 5654
SsiI	G!CGG	26	370; 403; 528; 758; 1070; 1112; 2948; 2975; 3063; 3173; 3754; 3818; 3919; 3922; 4202; 4257; 4355; 4493; 4640; 4780; 5023; 5268; 5389; 5408; 5535; 5563
SspI	AAT!ATT	2	2596; 3149
SspDI	G!GCGCC	1	3687
SspD5I	GGTGANNNNNNNN!	9	376; 627; 996; 1306; 1608; 1944; 2275; 4759; 4875
SspD5I	!NNNNNNNNNTCACC	4	884; 1962; 2804; 3865
SstI	GAGCT!C	1	1341
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	929
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	21	92; 118; 285; 851; 1067; 1169; 1190; 1713; 1965; 2887; 3009; 3364; 3385; 3698; 4101; 4240; 4311; 4581; 4713; 4943; 5381
Sth132I	!NNNNNNNNNCGGG	22	15; 407; 470; 827; 900; 1104; 2203; 2888; 2940; 3041; 3768; 3810; 3843; 4347; 4456; 4485; 4632; 4736; 4767; 5220; 5264; 5472
Sth302II	CC!GG	26	602; 836; 1185; 1323; 1668; 1708; 1726; 1960; 2212; 2331; 2907; 3594; 3671; 3693; 3721; 3852; 3942; 4009; 4190; 4465; 4473; 4565; 5039; 5229; 5255; 5402
StrI	C!TCGAG	2	1334; 2183
StsI	GGATGNNNNNNNNNN!	7	1621; 1856; 1895; 3556; 4013; 4038; 4492
StsI	!NNNNNNNNNNNNNNCATCC	4	680; 768; 825; 3360
StuI	AGG!CCT	2	1039; 3509
StyI	C!CWWGG	8	360; 611; 1361; 1409; 3417; 3510; 4120; 4525
StyD4I	!CCNGG	27	88; 281; 785; 834; 929; 944; 1073; 1182; 1508; 1697; 1705; 1886; 1957; 2210; 3222; 3277; 3294; 3690; 3850; 4073; 4463; 4652; 4755; 5227; 5445; 5458; 5579
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	17	76; 198; 269; 543; 581; 669; 1383; 1623; 1947; 2779; 4068; 4184; 4292; 4615; 5106; 5576; 5647
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 971; 1199; 1247; 1637; 2751; 2763; 2806; 2916; 3807; 3994; 4775; 4908
TaqI	T!CGA	19	752; 779; 1247; 1335; 1348; 1589; 2131; 2184; 2837; 3528; 3801; 3957; 3981; 4017; 4179; 4370; 4415; 4670; 5508
TaqII	GACCGANNNNNNNNNN!	3	2708; 3725; 4393
TaqII	!NNNNNNNNNTCGGTC	1	4637
TaqII	CACCCANNNNNNNNNN!	1	742
TaqII	!NNNNNNNNNTGGGTG	3	172; 3592; 4184
TasI	!AATT	15	18; 1350; 1688; 1851; 1936; 2192; 2438; 2502; 2580; 2606; 2617; 3264; 3336; 3428; 4846
TatI	W!GTACW	7	217; 297; 330; 381; 653; 2246; 2289
TauI	GCSG!C	17	761; 1073; 3008; 3022; 3460; 3599; 3662; 3757; 3922; 3925; 4164; 4260; 4301; 4429; 4783; 5411; 5566
TfiI	G!AWTC	8	740; 1217; 1400; 4173; 4307; 4417; 4454; 5632
TliI	C!TCGAG	2	1334; 2183
Tru1I	T!TAA	19	7; 629; 854; 2033; 2319; 2389; 2450; 2571; 2592; 2603; 2615; 2626; 2643; 2741; 3012; 4831; 4845; 4850; 4902
Tru9I	T!TAA	19	7; 629; 854; 2033; 2319; 2389; 2450; 2571; 2592; 2603; 2615; 2626; 2643; 2741; 3012; 4831; 4845; 4850; 4902
TscAI	CASTGNN!	6	1677; 2534; 3817; 4927; 5198; 5211
TseI	G!CWGC	20	809; 953; 1251; 1390; 1644; 1682; 1749; 2464; 2983; 3648; 3749; 3791; 3832; 3925; 4312; 4765; 4991; 5197; 5200; 5265
TsoI	TARCCANNNNNNNNNN!	2	2660; 3007
TsoI	!NNNNNNNNNTGGYTA	4	778; 2062; 2465; 4217
Tsp45I	!GTSAC	6	891; 1087; 2263; 2977; 3808; 4114
Tsp509I	!AATT	15	18; 1350; 1688; 1851; 1936; 2192; 2438; 2502; 2580; 2606; 2617; 3264; 3336; 3428; 4846
TspDTI	ATGAANNNNNNNNNN!	10	661; 1456; 1475; 1672; 1859; 2006; 2149; 2446; 3747; 4451
TspDTI	!NNNNNNNNNTTCAT	8	26; 789; 810; 1788; 2244; 4165; 4621; 4828
TspEI	!AATT	15	18; 1350; 1688; 1851; 1936; 2192; 2438; 2502; 2580; 2606; 2617; 3264; 3336; 3428; 4846
TspGWI	ACGGANNNNNNNNNN!	2	1776; 4563
TspGWI	!NNNNNNNNNTCCGT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	6	1677; 2534; 3817; 4927; 5198; 5211
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3806
Tth111II	CAARCANNNNNNNNNN!	2	841; 5015
Tth111II	!NNNNNNNNNTGYTTG	5	1975; 2284; 4123; 4983; 5022
UnbI	!GGNCC	16	82; 275; 759; 1002; 1094; 1115; 1199; 1651; 1708; 1889; 2794; 4203; 4648; 4694; 4752; 4785
Van9II	CCANNNN!NTGG	1	1209
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	690; 5292
VpaK11AI	!GGWCC	5	1199; 1708; 1889; 4203; 4648
VpaK11BI	G!GWCC	5	1200; 1709; 1890; 4204; 4649
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	2	1432; 1897
XapI	R!AATTY	5	1350; 1936; 2502; 2606; 2617
XbaI	T!CTAGA	1	2335
XceI	RCATG!Y	8	642; 1088; 1984; 2202; 3258; 3330; 4093; 5610
XcmI	CCANNNNN!NNNNTGG	1	1753
XhoI	C!TCGAG	2	1334; 2183
XhoII	R!GATCY	14	585; 1150; 1330; 1694; 1721; 2323; 2332; 3859; 4105; 4497; 4856; 4868; 4954; 4965
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3510; 4525
XmiI	GT!MKAC	1	1190
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	8	592; 2336; 2537; 2955; 3511; 4526; 4860; 5113
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	1	2291
Zsp2I	ATGCA!T	3	3260; 3332; 5663