

pCasper3-BG vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2292; 2497
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2580; 3536; 5325
AatI	AGG!CCT	2	1102; 3330
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	640; 1253
AccII	CG!CG	19	60; 651; 1523; 1760; 2078; 2158; 2433; 2809; 2829; 2853; 2884; 3575; 3876; 4314; 4398; 4461; 4530; 4803; 5384
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	3611
Acc36I	ACCTGCNNNN!	2	3777; 4227
Acc36I	!NNNNNNNNGCAGGT	1	3396
Acc65I	G!GTACC	2	645; 1429
AccB1I	G!GYRCC	8	465; 645; 727; 787; 1429; 2662; 3508; 3543
AccB7I	CCANNNN!NTGG	2	1854; 2130
AccBSI	CCG!CTC	2	2933; 4122
AccBSI	GAG!CGG	3	1439; 2769; 4176
AceIII	CAGCTCNNNNNNN!	1	2465
AceIII	!NNNNNNNNNNGAGCTG	6	552; 673; 1438; 1471; 1792; 2125
AciI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 649; 986; 1124; 1226; 1650; 1758; 1797; 1890; 1935; 2064; 2076; 2156; 2824; 2827; 2841; 2931; 3179; 3191; 3200; 3212; 3222; 3233; 3279; 3418; 3481; 3983; 4028; 4094; 4120; 4245; 4248; 4396; 4528; 4835; 4979; 5475
AciI	G!CGG	33	370; 403; 528; 651; 821; 1133; 1175; 1439; 1523; 1760; 1952; 1955; 2152; 2769; 2796; 2884; 2994; 3575; 3639; 3740; 3743; 4023; 4078; 4176; 4314; 4461; 4601; 4844; 5089; 5210; 5229; 5356; 5384
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	8	668; 3377; 3688; 3934; 4326; 4685; 4783; 4869
AcIWI	!NNNNNGATCC	8	580; 655; 1208; 2010; 3753; 4297; 4684; 4781
AcoI	Y!GGCCR	8	1331; 1503; 1967; 2153; 3415; 3589; 3980; 4007
AcsI	R!AATY	5	629; 1375; 2323; 2427; 2438
AcuI	CTGAAGNNNNNNNNNNNNNNN!	4	1183; 1828; 3655; 4087
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	2088; 4885
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 1250; 1541; 3509; 4211; 4290
AdeI	CACNNN!GTG	4	1323; 1881; 2088; 2625
AfaI	GT!AC	15	219; 244; 299; 332; 383; 540; 647; 718; 1120; 1431; 1750; 1861; 1885; 2143; 3815
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	27	49; 784; 897; 1129; 1439; 1601; 1734; 1764; 1854; 1899; 2070; 2130; 2521; 2847; 3239; 3490; 4034; 4315; 4347; 4479; 4514; 4564; 4596; 4949; 5228; 5394; 5412
AfiiI	C!TTAAG	1	2391
AfiiiI	A!CRYGT	2	1880; 5427
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	12	750; 918; 1375; 1686; 1824; 1869; 1929; 2920; 2964; 2974; 3387; 4963
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	1497

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Ajnl	!CCWGG	26	88; 281; 848; 896; 992; 1007; 1136; 1245; 1600; 1610; 1712; 1733; 1787; 1841; 1913; 1994; 2093; 3043; 3098; 3115; 3894; 4473; 4576; 5266; 5279; 5400
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	2	1612; 1789
AlfI	GCANNNNNTGCGNNNNNNNNNN!	2	3083; 3155
AlfI	!NNNNNNNNNGCANNNNNTGCG	2	3049; 3121
AloI	GAACNNNNNTCCNNNNNNNNNN!	2	1074; 2591
AloI	!NNNNNNNGGANNNNNNGTTC	1	1552
AloI	GGANNNNNGTTCNNNNNNNNNN!	1	1584
AloI	!NNNNNNNGAACNNNNNTCC	2	1042; 2559
AluI	AG!CT	29	566; 618; 624; 687; 714; 860; 1167; 1371; 1410; 1452; 1485; 1557; 1590; 1806; 1854; 1865; 1965; 2139; 2288; 2455; 2712; 3007; 3295; 3615; 4073; 4870; 5127; 5173; 5263
AluBI	AG!CT	29	566; 618; 624; 687; 714; 860; 1167; 1371; 1410; 1452; 1485; 1557; 1590; 1806; 1854; 1865; 1965; 2139; 2288; 2455; 2712; 3007; 3295; 3615; 4073; 4870; 5127; 5173; 5263
AlwI	GGATCNNNN!	8	668; 3377; 3688; 3934; 4326; 4685; 4783; 4869
AlwI	!NNNNNGATCC	8	580; 655; 1208; 2010; 3753; 4297; 4684; 4781
Alw21I	GWGCW!C	9	620; 757; 1502; 1664; 2041; 2093; 3622; 3812; 5117
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	6	1105; 1294; 2933; 3351; 4370; 4498
Alw44I	G!TGCAC	3	753; 1498; 5113
AlwNI	CAGNNN!CTG	4	1340; 2111; 4610; 5018
Ama87I	C!YCGRG	4	613; 656; 1657; 1699
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNNN!TGC	4	1641; 3077; 3149; 4611
ApaLI	G!TGCAC	3	753; 1498; 5113
ApeKI	G!CWGC	19	872; 1016; 1314; 1590; 1962; 2114; 2285; 2804; 3469; 3570; 3612; 3653; 3746; 4133; 4586; 4812; 5018; 5021; 5086
ApoI	R!AATTY	5	629; 1375; 2323; 2427; 2438
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4024
ApyPI	!NNNNNNNNNNNNNNNNNGTTCGAT	3	3818; 4471; 5309
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	3908
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	2	1472; 3337
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTTCCYC	2	843; 4079
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNGTCCNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 610; 661; 1038; 1188; 1214; 1479; 1563; 2016; 2052; 2167; 3347; 3351; 3370; 3681; 3759; 3840; 3849; 3927; 4303; 4319; 4678; 4690; 4768; 4776; 4787; 4862
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3627
Asp700I	GAANN!NNTTC	1	1678
Asp718I	G!GTACC	2	645; 1429
AspA2I	C!CTAGG	2	3331; 4346
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	25	597; 1523; 1693; 1721; 2110; 2775; 2783; 2809; 2831; 2840; 2853; 2884; 3503; 3511; 3575; 3612; 3878; 4138; 4314; 4400; 4803; 4912; 5086; 5186; 5253
AspS9I	G!GNCC	17	83; 276; 654; 823; 1066; 1158; 1604; 1845; 2005; 2061; 2073; 2616; 4025; 4470; 4516; 4574; 4607
AssI	AGT!ACT	0	

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AsuI	TT!CGAA	2	627; 4191
AsuC2I	CC!SGG	6	657; 658; 3513; 3673; 4286; 5050
AsuHPI	GGTGANNNNNNNN!	7	376; 1059; 1626; 1779; 1803; 4580; 4696
AsuHPI	!NNNNNNNTCACC	4	948; 1098; 2626; 3687
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	613; 656; 1657; 1699
AvaII	G!GWCC	3	2061; 4025; 4470
AviII	TGC!GCA	1	3611
AvrII	C!CTAGG	2	3331; 4346
AxyI	CC!TNAGG	3	932; 2989; 4621
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	12	657; 730; 757; 790; 1367; 1472; 1502; 1601; 1994; 3455; 3548; 5117
BalI	TGG!CCA	2	1333; 3591
BamHI	G!GATCC	1	660
BanI	G!GYRCC	8	465; 645; 727; 787; 1429; 2662; 3508; 3543
BanII	GRGCY!C	5	620; 657; 2700; 3874; 4584
BanIII	AT!CGAT	1	3349
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNCTTC	0	
BarI	GTANNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	2	1854; 2130
BauI	C!ACGAG	3	1318; 4227; 5254
BauI	C!TCGTG	2	1168; 4101
BbeI	GGCG!C	1	3512
Bbr7I	GAAGACNNNNNN!	1	979
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	974
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	3079; 3151; 3914
BbvI	GCAGCNNNNNN!	9	884; 1326; 1974; 2297; 3582; 3624; 4145; 4598; 5098
BbvI	!NNNNNNNNNNNGCTGC	9	1003; 1577; 2101; 2791; 3456; 3640; 3733; 4799; 5005
Bbv12I	GWGCW!C	9	620; 757; 1502; 1664; 2041; 2093; 3622; 3812; 5117
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	8	749; 1190; 1732; 2029; 2639; 3203; 3729; 4231
BccI	!NNNNNGATGG	3	2607; 3387; 3815
BceAI	ACGGCNNNNNNNNNN!	14	885; 1029; 1080; 1146; 1506; 1566; 1647; 1758; 1848; 1926; 2019; 2142; 3935; 4422
BceAI	!NNNNNNNNNNNGCCGT	3	2650; 3468; 4927
Bcefl	ACGGCNNNNNNNNNN!	14	885; 1029; 1080; 1146; 1506; 1566; 1647; 1758; 1848; 1926; 2019; 2142; 3935; 4422
Bcefl	!NNNNNNNNNNNGCCGT	3	2651; 3469; 4928
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNTGC	0	
BciVI	GATCCNNNNNN!	3	2938; 3728; 5229
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	6	657; 658; 3513; 3673; 4286; 5050
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNN!	2	2038; 5362
BdaI	!NNNNNNNNNTGANNNNNNTCA	2	2004; 5328
BfaI	C!TAG	10	592; 857; 1352; 2164; 2358; 2776; 3332; 4347; 4681; 4934
BfiI	ACTGGGNNNN!	2	1369; 3458
BfiI	!NNNCCCAGT	2	289; 3210
BfmI	C!TRYAG	5	634; 1266; 2844; 4971; 5162
BfoI	RGCG!Y	7	598; 1694; 2111; 2776; 2784; 3512; 5187
BfrI	C!TTAAG	1	2391

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BfuI	GTATCCNNNNNN!	3	2938; 3728; 5229
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3777; 4227
BfuAI	!NNNNNNNNNGCAGGT	1	3396
BfuCI	!GATC	27	585; 609; 660; 1037; 1187; 1213; 1478; 1562; 2015; 2051; 2166; 3346; 3350; 3369; 3680; 3758; 3839; 3848; 3926; 4302; 4318; 4677; 4689; 4767; 4775; 4786; 4861
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1142; 3284
BglII	A!GATCT	1	609
BisI	GC!NGC	42	822; 873; 1017; 1134; 1315; 1524; 1591; 1761; 1953; 1956; 1963; 2115; 2153; 2156; 2286; 2805; 2827; 2841; 3279; 3418; 3470; 3481; 3571; 3576; 3613; 3654; 3741; 3744; 3747; 3983; 4079; 4120; 4134; 4248; 4587; 4602; 4813; 5019; 5022; 5087; 5230; 5385
BlnI	C!CTAGG	2	3331; 4346
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	42	823; 874; 1018; 1135; 1316; 1525; 1592; 1762; 1954; 1957; 1964; 2116; 2154; 2157; 2287; 2806; 2828; 2842; 3280; 3419; 3471; 3482; 3572; 3577; 3614; 3655; 3742; 3745; 3748; 3984; 4080; 4121; 4135; 4249; 4588; 4603; 4814; 5020; 5023; 5088; 5231; 5386
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	2061; 4025; 4470
Bme1390I	CC!NGG	32	90; 283; 657; 658; 850; 898; 994; 1009; 1138; 1247; 1602; 1612; 1714; 1735; 1789; 1843; 1915; 1996; 2095; 3045; 3100; 3117; 3513; 3673; 3896; 4286; 4475; 4578; 5050; 5268; 5281; 5402
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	613; 656; 1657; 1699
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	1497
BmgT120I	GG!NCC	17	84; 277; 655; 824; 1067; 1159; 1605; 1846; 2006; 2062; 2074; 2617; 4026; 4471; 4517; 4575; 4608
BmiI	GGN!NCC	22	467; 647; 655; 662; 729; 789; 1180; 1431; 2007; 2664; 2685; 2697; 2888; 3049; 3121; 3510; 3545; 4393; 4472; 4517; 5360; 5399
BmrI	ACTGGGNNNNN!	2	1369; 3458
BmrI	!NNNNCCCAGT	2	289; 3210
BmrFI	CC!NGG	32	90; 283; 657; 658; 850; 898; 994; 1009; 1138; 1247; 1602; 1612; 1714; 1735; 1789; 1843; 1915; 1996; 2095; 3045; 3100; 3117; 3513; 3673; 3896; 4286; 4475; 4578; 5050; 5268; 5281; 5402
BmsI	GCATCNNNNN!	10	911; 1472; 1643; 1808; 2325; 3088; 3160; 3808; 3872; 4147
BmsI	!NNNNNNNNNGATGC	7	357; 1064; 1232; 3467; 3722; 3938; 5330
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1369; 3458
BmuI	!NNNNCCCAGT	2	289; 3210
BoxI	GACNN!NNGTC	1	1306
BpiI	GAAGACNN!	1	974
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3298; 4197
BpI	!NNNNNNNNNGAGNNNNNCTC	2	3266; 4165
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	5	1579; 1876; 1936; 2116; 4349
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	991; 4292
Bpu10I	CC!TNAGC	1	2035
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 4191
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	974
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4803; 5342
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	4	604; 1222; 3885; 5044
BpuMI	CC!SGG	6	657; 658; 3513; 3673; 4286; 5050
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1294; 4498
Bsa29I	AT!CGAT	1	3349

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BsaAI	YAC!GTR	3	340; 2625; 3813
BsaBI	GATNN!NNATC	3	2020; 2171; 3368
BsaHI	GR!CGYC	9	122; 175; 258; 444; 1250; 1541; 3509; 4211; 4290
BsaJI	C!CNNGG	31	360; 649; 656; 731; 761; 896; 897; 992; 1600; 1610; 1700; 1758; 1787; 1842; 1994; 1995; 2124; 3043; 3115; 3238; 3273; 3282; 3331; 3672; 3941; 4346; 4473; 4474; 4576; 4577; 5267
BsaMI	GAATGCN!	1	2260
BsaMI	G!CATTC	1	2353
BsaWI	W!CCGGW	6	600; 666; 3540; 4384; 5074; 5221
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2589
BsaXI	!NNNNNNNGGAGNNNNNGT	1	1552
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	1582
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2559
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNGTGTTG	2	2510; 4417
Bsc4I	CCNNNNN!NNGG	27	49; 784; 897; 1129; 1439; 1601; 1734; 1764; 1854; 1899; 2070; 2130; 2521; 2847; 3239; 3490; 4034; 4315; 4347; 4479; 4514; 4564; 4596; 4949; 5228; 5394; 5412
BscAI	GCATCNNNN!	10	910; 1471; 1642; 1807; 2324; 3087; 3159; 3807; 3871; 4146
BscAI	!NNNNNGATGC	7	360; 1067; 1235; 3470; 3725; 3941; 5333
BseI	ACTGGN!	5	1277; 1364; 3453; 3654; 4900
BseI	C!CAGT	7	295; 1638; 1728; 2538; 3216; 5012; 5025
Bse8I	GATNN!NNATC	3	2020; 2171; 3368
Bse2II	CC!TNAGG	3	932; 2989; 4621
Bse118I	R!CCGGY	7	666; 1459; 1582; 2726; 3828; 4009; 4292
BseAI	T!CCGGA	0	
BseBI	CC!WGG	26	90; 283; 850; 898; 994; 1009; 1138; 1247; 1602; 1612; 1714; 1735; 1789; 1843; 1915; 1996; 2095; 3045; 3100; 3117; 3896; 4475; 4578; 5268; 5281; 5402
BseCI	AT!CGAT	1	3349
BseDI	C!CNNGG	31	360; 649; 656; 731; 761; 896; 897; 992; 1600; 1610; 1700; 1758; 1787; 1842; 1994; 1995; 2124; 3043; 3115; 3238; 3273; 3282; 3331; 3672; 3941; 4346; 4473; 4474; 4576; 4577; 5267
Bse3DI	GCAATGNN!	1	3742
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	3369; 3826; 3851; 4305
BseGI	!CATCC	10	757; 845; 902; 1057; 1634; 1709; 1724; 1838; 1886; 3195
BseJI	GATNN!NNATC	3	2020; 2171; 3368
BseLI	CCNNNNN!NNGG	27	49; 784; 897; 1129; 1439; 1601; 1734; 1764; 1854; 1899; 2070; 2130; 2521; 2847; 3239; 3490; 4034; 4315; 4347; 4479; 4514; 4564; 4596; 4949; 5228; 5394; 5412
BseMI	GCAATGNN!	1	3742
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	3	620; 2056; 4635
BseMII	!NNNNNNNNCTGAG	7	923; 2026; 2980; 3282; 4163; 4735; 5144
BseNI	ACTGGN!	5	1277; 1364; 3453; 3654; 4900
BseNI	C!CAGT	7	295; 1638; 1728; 2538; 3216; 5012; 5025
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1462; 3327
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	12	657; 730; 757; 790; 1367; 1472; 1502; 1601; 1994; 3455; 3548; 5117
BseXI	GCAGCNNNNNNNN!	9	884; 1326; 1974; 2297; 3582; 3624; 4145; 4598; 5098
BseXI	!NNNNNNNNNNNGCTGC	9	1003; 1577; 2101; 2791; 3456; 3640; 3733; 4799; 5005
BseX3I	C!GGCCG	2	2153; 3415
BseYI	C!CCAGC	3	3052; 3124; 5123
BseYI	G!CTGGG	2	1094; 4013
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1981
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	1560
Bsh1236I	CG!CG	19	60; 651; 1523; 1760; 2078; 2158; 2433; 2809; 2829; 2853; 2884; 3575; 3876; 4314; 4398; 4461; 4530; 4803; 5384
Bsh1285I	CGRY!CG	4	671; 2156; 3418; 5093
BshFI	GG!CC	36	84; 277; 655; 824; 1067; 1102; 1136; 1159; 1291; 1333; 1505; 1605; 1847; 1903; 1913; 1969; 2006; 2074; 2155; 2475; 2617; 3272; 3278; 3287; 3330; 3417; 3591; 3982; 4009; 4518; 4575; 4608; 4953; 5387; 5405; 5416
BshNI	G!GYRCC	8	465; 645; 727; 787; 1429; 2662; 3508; 3543

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BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	3349
BsiEI	CGRY!CG	4	671; 2156; 3418; 5093
BsiHKAI	GWGCW!C	9	620; 757; 1502; 1664; 2041; 2093; 3622; 3812; 5117
BsiHKCI	C!YCGRG	4	613; 656; 1657; 1699
BsiSI	C!CGG	21	601; 657; 667; 1460; 1583; 2727; 3414; 3491; 3513; 3541; 3672; 3762; 3829; 4010; 4285; 4293; 4385; 4859; 5049; 5075; 5222
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	27	49; 784; 897; 1129; 1439; 1601; 1734; 1764; 1854; 1899; 2070; 2130; 2521; 2847; 3239; 3490; 4034; 4315; 4347; 4479; 4514; 4564; 4596; 4949; 5228; 5394; 5412
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3660; 4192; 4301
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3025; 3097; 3161; 4456
BsmI	GAATGCN!	1	2260
BsmI	G!CATTC	1	2353
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	6	1105; 1294; 2933; 3351; 4370; 4498
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	1105
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3660; 4192; 4301
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3025; 3097; 3161; 4456
BsnI	GG!CC	36	84; 277; 655; 824; 1067; 1102; 1136; 1159; 1291; 1333; 1505; 1605; 1847; 1903; 1913; 1969; 2006; 2074; 2155; 2475; 2617; 3272; 3278; 3287; 3330; 3417; 3591; 3982; 4009; 4518; 4575; 4608; 4953; 5387; 5405; 5416
Bso3II	GGTCTCN!	0	
Bso3II	!NNNNNGAGACC	2	1294; 4498
BsoBI	C!YCGRG	4	613; 656; 1657; 1699
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	360; 3238; 3941
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4312
Bsp24I	!NNNNNNCCANNNNNGTC	2	4733; 4911
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4765; 4943
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4280
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 4191
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	27	585; 609; 660; 1037; 1187; 1213; 1478; 1562; 2015; 2051; 2166; 3346; 3350; 3369; 3680; 3758; 3839; 3848; 3926; 4302; 4318; 4677; 4689; 4767; 4775; 4786; 4861
Bsp1286I	GDGCH!C	21	620; 657; 730; 757; 790; 1367; 1472; 1502; 1601; 1664; 1994; 2041; 2093; 2700; 3455; 3548; 3622; 3812; 3874; 4584; 5117
Bsp1407I	T!GTACA	3	716; 1883; 2141
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 649; 986; 1124; 1226; 1650; 1758; 1797; 1890; 1935; 2064; 2076; 2156; 2824; 2827; 2841; 2931; 3179; 3191; 3200; 3212; 3222; 3233; 3279; 3418; 3481; 3983; 4028; 4094; 4120; 4245; 4248; 4396; 4528; 4835; 4979; 5475
BspACI	G!CGG	33	370; 403; 528; 651; 821; 1133; 1175; 1439; 1523; 1760; 1952; 1955; 2152; 2769; 2796; 2884; 2994; 3575; 3639; 3740; 3743; 4023; 4078; 4176; 4314; 4461; 4601; 4844; 5089; 5210; 5229; 5356; 5384
BspCNI	CTCAGNNNNNNNN!	3	619; 2055; 4634
BspCNI	!NNNNNNCTGAG	7	924; 2027; 2981; 3283; 4164; 4736; 5145
BspDI	AT!CGAT	1	3349
BspD6I	GACTCNNNN!	6	418; 612; 2168; 2582; 4188; 5065
BspD6I	!NNNNNGAGTC	4	946; 2091; 2545; 2977
BspEI	T!CCGGA	0	
BspFNI	CG!CG	19	60; 651; 1523; 1760; 2078; 2158; 2433; 2809; 2829; 2853; 2884; 3575; 3876; 4314; 4398; 4461; 4530; 4803; 5384
BspHI	T!CATGA	2	2935; 4707
BspLI	GGN!NCC	22	467; 647; 655; 662; 729; 789; 1180; 1431; 2007; 2664; 2685; 2697; 2888; 3049; 3121; 3510; 3545; 4393; 4472; 4517; 5360; 5399
BspMI	ACCTGCNNNN!	2	3777; 4227

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspMI	!NNNNNNNNGCAGGT	1	3396
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	668; 3377; 3688; 3934; 4326; 4685; 4783; 4869
BspPI	!NNNNNGATCC	8	580; 655; 1208; 2010; 3753; 4297; 4684; 4781
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	2	3853; 4063
BspTI	C!TTAAG	1	2391
BspT104I	TT!CGAA	2	627; 4191
BspT107I	G!GYRCC	8	465; 645; 727; 787; 1429; 2662; 3508; 3543
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1294; 4498
BsrI	ACTGGN!	5	1277; 1364; 3453; 3654; 4900
BsrI	C!CAGT	7	295; 1638; 1728; 2538; 3216; 5012; 5025
BsrBI	CCG!CTC	2	2933; 4122
BsrBI	GAG!CGG	3	1439; 2769; 4176
BsrDI	GCAATGNN!	1	3742
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	666; 1459; 1582; 2726; 3828; 4009; 4292
BsrGI	T!GTACA	3	716; 1883; 2141
BsrSI	ACTGGN!	5	1277; 1364; 3453; 3654; 4900
BsrSI	C!CAGT	7	295; 1638; 1728; 2538; 3216; 5012; 5025
BssAI	R!CCGGY	7	666; 1459; 1582; 2726; 3828; 4009; 4292
BssECI	C!CNNGG	31	360; 649; 656; 731; 761; 896; 897; 992; 1600; 1610; 1700; 1758; 1787; 1842; 1994; 1995; 2124; 3043; 3115; 3238; 3273; 3282; 3331; 3672; 3941; 4346; 4473; 4474; 4576; 4577; 5267
BssHII	G!CGCGC	0	
BssKI	!CCNNGG	32	88; 281; 655; 656; 848; 896; 992; 1007; 1136; 1245; 1600; 1610; 1712; 1733; 1787; 1841; 1913; 1994; 2093; 3043; 3098; 3115; 3511; 3671; 3894; 4284; 4473; 4576; 5048; 5266; 5279; 5400
BssMI	!GATC	27	585; 609; 660; 1037; 1187; 1213; 1478; 1562; 2015; 2051; 2166; 3346; 3350; 3369; 3680; 3758; 3839; 3848; 3926; 4302; 4318; 4677; 4689; 4767; 4775; 4786; 4861
BssNI	GR!CGYC	9	122; 175; 258; 444; 1250; 1541; 3509; 4211; 4290
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1318; 4227; 5254
BssSI	C!TCGTG	2	1168; 4101
BssT1I	C!CWWGG	5	360; 3238; 3331; 3941; 4346
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2976; 3853; 4063
Bst98I	C!TTAAG	1	2391
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 1250; 1541; 3509; 4211; 4290
BstAFI	C!TTAAG	1	2391
BstAPI	GCANNNN!NTGC	4	1640; 3076; 3148; 4610
BstAUI	T!GTACA	3	716; 1883; 2141
BstBI	TT!CGAA	2	627; 4191
Bst2BI	C!ACGAG	3	1318; 4227; 5254
Bst2BI	C!TCGTG	2	1168; 4101
BstBAI	YAC!GTR	3	340; 2625; 3813
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 645; 732; 2600; 3889; 4005; 4113; 4436; 4927; 5397; 5468
BstC8I	GCN!NGC	41	86; 279; 593; 653; 685; 775; 979; 1461; 1519; 1555; 1588; 1650; 1960; 1967; 2076; 2112; 2728; 2771; 2785; 3058; 3077; 3130; 3149; 3403; 3589; 3808; 3874; 3880; 3908; 3912; 3953; 3957; 4011; 4294; 4481; 4528; 4584; 4606; 4817; 5377; 5414
BstDEI	C!TNAG	11	606; 932; 1229; 2035; 2042; 2989; 3291; 4172; 4621; 4744; 5153
BstDSI	C!CRYGG	7	360; 649; 731; 1758; 2124; 3238; 3941
BstEII	G!GTNACC	1	1614
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	3369; 3826; 3851; 4305
BstF5I	!CATCC	10	757; 845; 902; 1057; 1634; 1709; 1724; 1838; 1886; 3195
BstFNI	CG!CG	19	60; 651; 1523; 1760; 2078; 2158; 2433; 2809; 2829; 2853; 2884; 3575; 3876; 4314; 4398; 4461; 4530; 4803; 5384
BstH2I	RGCGC!Y	7	598; 1694; 2111; 2776; 2784; 3512; 5187

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstHHI	GCG!C	25	597; 1523; 1693; 1721; 2110; 2775; 2783; 2809; 2831; 2840; 2853; 2884; 3503; 3511; 3575; 3612; 3878; 4138; 4314; 4400; 4803; 4912; 5086; 5186; 5253
BstKTI	GAT!C	27	588; 612; 663; 1040; 1190; 1216; 1481; 1565; 2018; 2054; 2169; 3349; 3353; 3372; 3683; 3761; 3842; 3851; 3929; 4305; 4321; 4680; 4692; 4770; 4778; 4789; 4864
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	6	1105; 1294; 2933; 3351; 4370; 4498
BstMBI	!GATC	27	585; 609; 660; 1037; 1187; 1213; 1478; 1562; 2015; 2051; 2166; 3346; 3350; 3369; 3680; 3758; 3839; 3848; 3926; 4302; 4318; 4677; 4689; 4767; 4775; 4786; 4861
BstMCI	CGRY!CG	4	671; 2156; 3418; 5093
BstMWI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 711; 1142; 1482; 1523; 1583; 1596; 1640; 1871; 2063; 2114; 2736; 2766; 2793; 2835; 3076; 3148; 3199; 3278; 3500; 3584; 3607; 3746; 3869; 3952; 4219; 4406; 4610; 4809; 5381
BstNI	CC!WGG	26	90; 283; 850; 898; 994; 1009; 1138; 1247; 1602; 1612; 1714; 1735; 1789; 1843; 1915; 1996; 2095; 3045; 3100; 3117; 3896; 4475; 4578; 5268; 5281; 5402
BstNSI	RCATG!Y	5	705; 3079; 3151; 3914; 5431
BstOI	CC!WGG	26	90; 283; 850; 898; 994; 1009; 1138; 1247; 1602; 1612; 1714; 1735; 1789; 1843; 1915; 1996; 2095; 3045; 3100; 3117; 3896; 4475; 4578; 5268; 5281; 5402
BstPI	G!GTNACC	1	1614
BstPAI	GACNN!NNGTC	1	1306
BstSCI	!CCNGG	32	88; 281; 655; 656; 848; 896; 992; 1007; 1136; 1245; 1600; 1610; 1712; 1733; 1787; 1841; 1913; 1994; 2093; 3043; 3098; 3115; 3511; 3671; 3894; 4284; 4473; 4576; 5048; 5266; 5279; 5400
BstSFI	C!TRYAG	5	634; 1266; 2844; 4971; 5162
BstSLI	GKGCMI!C	12	657; 730; 757; 790; 1367; 1472; 1502; 1601; 1994; 3455; 3548; 5117
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 651; 1523; 1760; 2078; 2158; 2433; 2809; 2829; 2853; 2884; 3575; 3876; 4314; 4398; 4461; 4530; 4803; 5384
Bst2UI	CC!WGG	26	90; 283; 850; 898; 994; 1009; 1138; 1247; 1602; 1612; 1714; 1735; 1789; 1843; 1915; 1996; 2095; 3045; 3100; 3117; 3896; 4475; 4578; 5268; 5281; 5402
BstV1I	GCAGCNNNNNNNN!	9	884; 1326; 1974; 2297; 3582; 3624; 4145; 4598; 5098
BstV1I	!NNNNNNNNNNNGCTGC	9	1003; 1577; 2101; 2791; 3456; 3640; 3733; 4799; 5005
BstV2I	GAAGACNN!	1	974
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	11	585; 609; 660; 1213; 3680; 3926; 4318; 4677; 4689; 4775; 4786
BstYI	R!GATCY	11	585; 609; 660; 1213; 3680; 3926; 4318; 4677; 4689; 4775; 4786
BstZI	C!GGCCG	2	2153; 3415
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2938; 3728; 5229
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3349
Bsu36I	CC!TNAGG	3	932; 2989; 4621
BsuRI	GG!CC	36	84; 277; 655; 824; 1067; 1102; 1136; 1159; 1291; 1333; 1505; 1605; 1847; 1903; 1913; 1969; 2006; 2074; 2155; 2475; 2617; 3272; 3278; 3287; 3330; 3417; 3591; 3982; 4009; 4518; 4575; 4608; 4953; 5387; 5405; 5416
BsuTUI	AT!CGAT	1	3349
BtgI	C!CRYGG	7	360; 649; 731; 1758; 2124; 3238; 3941
BtgZI	GCGATGNNNNNNNNNN!	2	2626; 3961
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3780; 4124
BthCI	GCNG!C	42	824; 875; 1019; 1136; 1317; 1526; 1593; 1763; 1955; 1958; 1965; 2117; 2155; 2158; 2288; 2807; 2829; 2843; 3281; 3420; 3472; 3483; 3573; 3578; 3615; 3656; 3743; 3746; 3749; 3985; 4081; 4122; 4136; 4250; 4589; 4604; 4815; 5021; 5024; 5089; 5232; 5387
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	1497
BtsI	GCAGTGNN!	1	1334
BtsI	!CACTGC	1	2348

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BtsCI	GGATGNN!	4	3369; 3826; 3851; 4305
BtsCI	!CATCC	10	757; 845; 902; 1057; 1634; 1709; 1724; 1838; 1886; 3195
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3777; 4227
BveI	!NNNNNNNNGCAGGT	1	3396
Cac8I	GCN!NGC	41	86; 279; 593; 653; 685; 775; 979; 1461; 1519; 1555; 1588; 1650; 1960; 1967; 2076; 2112; 2728; 2771; 2785; 3058; 3077; 3130; 3149; 3403; 3589; 3808; 3874; 3880; 3908; 3912; 3953; 3957; 4011; 4294; 4481; 4528; 4584; 4606; 4817; 5377; 5414
CaiI	CAGNNN!CTG	4	1340; 2111; 4610; 5018
CciI	T!CATGA	2	2935; 4707
CciNI	GC!GGCCGC	1	2153
CdiI	CATC!G	8	352; 1467; 1803; 1947; 3798; 3803; 4001; 4142
CdiI	C!GATG	2	2612; 3947
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5381
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3170; 3212
CelII	GC!TNAGC	0	
CfoI	GCG!C	25	597; 1523; 1693; 1721; 2110; 2775; 2783; 2809; 2831; 2840; 2853; 2884; 3503; 3511; 3575; 3612; 3878; 4138; 4314; 4400; 4803; 4912; 5086; 5186; 5253
CfrI	Y!GGCCR	8	1331; 1503; 1967; 2153; 3415; 3589; 3980; 4007
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	7	666; 1459; 1582; 2726; 3828; 4009; 4292
Cfr13I	G!GNCC	17	83; 276; 654; 823; 1066; 1158; 1604; 1845; 2005; 2061; 2073; 2616; 4025; 4470; 4516; 4574; 4607
Cfr42I	CCGC!GG	2	652; 1761
ChaI	GATC!	27	589; 613; 664; 1041; 1191; 1217; 1482; 1566; 2019; 2055; 2170; 3350; 3354; 3373; 3684; 3762; 3843; 3852; 3930; 4306; 4322; 4681; 4693; 4771; 4779; 4790; 4865
CjeI	CCANNNNNGTNNNNNNNNNNNNNNNN!	5	1900; 3326; 4766; 4866; 4944
CjeI	!NNNNNNNNNACNNNNNTGG	7	64; 257; 2993; 3088; 4280; 4830; 5385
CjeI	ACNNNNNTGGNNNNNNNNNNNNNNNN!	7	98; 291; 3027; 3122; 4314; 4864; 5419
CjeI	!NNNNNNNNCCANNNNNNGT	5	1866; 3292; 4732; 4832; 4910
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	4766; 4944
CjePI	!NNNNNNNNGANNNNNNNTGG	5	257; 794; 1139; 4280; 4879
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	5	290; 827; 1172; 4313; 4912
CjePI	!NNNNNNNNCCANNNNNNNTC	2	4733; 4911
Clai	AT!CGAT	1	3349
CpoI	CG!GWCCG	1	4025
CseI	GACGCNNNNN!	5	526; 1122; 1549; 4219; 4298
CseI	!NNNNNNNNNNGCGTC	4	1239; 2842; 4737; 5315
CsiI	A!CCWGGT	1	3098
CspI	CG!GWCCG	1	4025
Csp6I	G!TAC	15	218; 243; 298; 331; 382; 539; 646; 717; 1119; 1430; 1749; 1860; 1884; 2142; 3814
Csp45I	TT!CGAA	2	627; 4191
CspAI	A!CCGGT	1	666
CspCI	CAANNNNNGTGGNNNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	5	719; 1310; 1850; 2789; 4398
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	27	301; 361; 678; 702; 708; 720; 798; 944; 1155; 1434; 1665; 1695; 2085; 2130; 2936; 3076; 3148; 3239; 3380; 3725; 3911; 3942; 3968; 4324; 4708; 5428; 5479

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviJI	RG!CY	115	42; 84; 93; 277; 566; 618; 624; 655; 687; 714; 777; 824; 853; 860; 938; 1004; 1016; 1067; 1094; 1102; 1136; 1159; 1167; 1181; 1291; 1333; 1371; 1410; 1452; 1485; 1505; 1557; 1590; 1605; 1706; 1806; 1847; 1854; 1865; 1874; 1903; 1913; 1921; 1965; 1969; 2006; 2074; 2139; 2155; 2178; 2288; 2455; 2475; 2617; 2698; 2712; 2726; 3007; 3048; 3120; 3243; 3272; 3278; 3287; 3295; 3318; 3330; 3336; 3417; 3434; 3442; 3469; 3494; 3578; 3587; 3591; 3615; 3653; 3729; 3746; 3765; 3828; 3872; 3882; 3899; 3982; 4009; 4013; 4050; 4073; 4089; 4269; 4296; 4357; 4479; 4518; 4575; 4582; 4589; 4608; 4619; 4870; 4899; 4942; 4953; 5018; 5097; 5122; 5127; 5173; 5263; 5361; 5387; 5405; 5416
CviKI-1	RG!CY	115	42; 84; 93; 277; 566; 618; 624; 655; 687; 714; 777; 824; 853; 860; 938; 1004; 1016; 1067; 1094; 1102; 1136; 1159; 1167; 1181; 1291; 1333; 1371; 1410; 1452; 1485; 1505; 1557; 1590; 1605; 1706; 1806; 1847; 1854; 1865; 1874; 1903; 1913; 1921; 1965; 1969; 2006; 2074; 2139; 2155; 2178; 2288; 2455; 2475; 2617; 2698; 2712; 2726; 3007; 3048; 3120; 3243; 3272; 3278; 3287; 3295; 3318; 3330; 3336; 3417; 3434; 3442; 3469; 3494; 3578; 3587; 3591; 3615; 3653; 3729; 3746; 3765; 3828; 3872; 3882; 3899; 3982; 4009; 4013; 4050; 4073; 4089; 4269; 4296; 4357; 4479; 4518; 4575; 4582; 4589; 4608; 4619; 4870; 4899; 4942; 4953; 5018; 5097; 5122; 5127; 5173; 5263; 5361; 5387; 5405; 5416
CviQI	G!TAC	15	218; 243; 298; 331; 382; 539; 646; 717; 1119; 1430; 1749; 1860; 1884; 2142; 3814
DdeI	C!TNAG	11	606; 932; 1229; 2035; 2042; 2989; 3291; 4172; 4621; 4744; 5153
DinI	GGC!GCC	1	3510
DpnI	GA!TC	27	587; 611; 662; 1039; 1189; 1215; 1480; 1564; 2017; 2053; 2168; 3348; 3352; 3371; 3682; 3760; 3841; 3850; 3928; 4304; 4320; 4679; 4691; 4769; 4777; 4788; 4863
DpnII	!GATC	27	585; 609; 660; 1037; 1187; 1213; 1478; 1562; 2015; 2051; 2166; 3346; 3350; 3369; 3680; 3758; 3839; 3848; 3926; 4302; 4318; 4677; 4689; 4767; 4775; 4786; 4861
DraI	TTT!AAA	3	2211; 4653; 4672
DraII	RG!GNCCY	1	4607
DraIII	CACNNN!GTG	4	1323; 1881; 2088; 2625
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	5	266; 1772; 1841; 2084; 4989
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTTG	0	
DrdI	GACNNN!NNGTC	3	2580; 3536; 5325
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2580; 3536; 5325
EaeI	Y!GGCCR	8	1331; 1503; 1967; 2153; 3415; 3589; 3980; 4007
EagI	C!GGCCG	2	2153; 3415
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2976; 3853; 4063
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	2976; 3853; 4063
EciI	GGCGANNNNNNNNNNNNNN!	4	3009; 4038; 5225; 5371
EciI	!NNNNNNNNNTCCGCC	5	496; 1879; 3180; 3201; 3222
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	2	2153; 3415
Eco24I	GRGY!C	5	620; 657; 2700; 3874; 4584
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	2	1294; 4498
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	2061; 4025; 4470
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	2153; 3415
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	1183; 1828; 3655; 4087
Eco57I	!NNNNNNNNNNNNNNNNNCTTCAG	2	2088; 4885
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	932; 2989; 4621
Eco88I	C!YCGRG	4	613; 656; 1657; 1699

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco91I	G!GTNACC	1	1614
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	5	360; 3238; 3331; 3941; 4346
Eco147I	AGG!CCT	2	1102; 3330
EcoHI	!CCSGG	6	655; 656; 3511; 3671; 4284; 5048
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	9	1183; 1579; 1828; 1876; 1936; 2116; 3655; 4087; 4349
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	4	991; 2088; 4292; 4885
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	1	1614
EcoO109I	RG!GNCCY	1	4607
EcoRI	G!AATTC	2	629; 1375
EcoRII	!CCWGG	26	88; 281; 848; 896; 992; 1007; 1136; 1245; 1600; 1610; 1712; 1733; 1787; 1841; 1913; 1994; 2093; 3043; 3098; 3115; 3894; 4473; 4576; 5266; 5279; 5400
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	360; 3238; 3331; 3941; 4346
EcoT22I	ATGCA!T	3	3081; 3153; 5484
EcoT38I	GRGCY!C	5	620; 657; 2700; 3874; 4584
Eco53kI	GAG!CTC	1	618
EgeI	GGC!GCC	1	3510
EheI	GGC!GCC	1	3510
ErhI	C!CWWGG	5	360; 3238; 3331; 3941; 4346
EsaBC3I	TC!GA	21	615; 628; 641; 816; 843; 1311; 1482; 1776; 1803; 1947; 2659; 3350; 3623; 3779; 3803; 3839; 4001; 4192; 4237; 4492; 5330
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	1	1105
FaeI	CATG!	27	304; 364; 681; 705; 711; 723; 801; 947; 1158; 1437; 1668; 1698; 2088; 2133; 2939; 3079; 3151; 3242; 3383; 3728; 3914; 3945; 3971; 4327; 4711; 5431; 5482
Fail	YA!TR	67	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 703; 709; 721; 799; 945; 963; 1156; 1209; 1211; 1259; 1435; 1666; 1696; 2086; 2131; 2171; 2181; 2247; 2292; 2497; 2925; 2937; 3068; 3077; 3140; 3149; 3173; 3240; 3264; 3381; 3445; 3726; 3751; 3912; 3943; 3969; 4041; 4257; 4325; 4403; 4455; 4616; 4633; 4635; 4637; 4709; 4987; 5176; 5292; 5365; 5429; 5480
FaI	AAGNNNNNCTNNNNNNNNNNNN!	2	942; 3849
FaI	!NNNNNNNNAAGNNNNNCTT	2	910; 3817
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3660; 4192; 4301
FaqI	!NNNNNNNNNNNNNGTCCC	4	3025; 3097; 3161; 4456
FatI	!CATG	27	300; 360; 677; 701; 707; 719; 797; 943; 1154; 1433; 1664; 1694; 2084; 2129; 2935; 3075; 3147; 3238; 3379; 3724; 3910; 3941; 3967; 4323; 4707; 5427; 5478
FauI	CCCGCNNNN!	14	93; 119; 286; 1131; 1233; 1657; 1765; 1942; 2083; 2831; 3186; 3207; 4403; 4535
FauI	!NNNNNNNGCGGG	8	644; 1168; 1432; 2762; 3632; 4169; 4307; 4454
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	2	640; 1253
FmuI	GGNC!C	17	86; 279; 657; 826; 1069; 1161; 1607; 1848; 2008; 2064; 2076; 2619; 4028; 4473; 4519; 4577; 4610
Fnu4HI	GC!NGC	42	822; 873; 1017; 1134; 1315; 1524; 1591; 1761; 1953; 1956; 1963; 2115; 2153; 2156; 2286; 2805; 2827; 2841; 3279; 3418; 3470; 3481; 3571; 3576; 3613; 3654; 3741; 3744; 3747; 3983; 4079; 4120; 4134; 4248; 4587; 4602; 4813; 5019; 5022; 5087; 5230; 5385
FokI	GGATGNNNNNNNNNN!	4	3376; 3833; 3858; 4312
FokI	!NNNNNNNNNNNNNCATCC	9	744; 832; 889; 1044; 1621; 1696; 1825; 1873; 3182
FriOI	GRGCY!C	5	620; 657; 2700; 3874; 4584
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3611
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	10	592; 857; 1352; 2164; 2358; 2776; 3332; 4347; 4681; 4934

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	184	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 744; 774; 791; 805; 838; 852; 877; 894; 909; 939; 972; 999; 1014; 1033; 1074; 1116; 1135; 1150; 1173; 1195; 1218; 1238; 1259; 1305; 1347; 1363; 1446; 1473; 1519; 1557; 1593; 1607; 1623; 1651; 1669; 1707; 1726; 1741; 1770; 1800; 1855; 1888; 1903; 1917; 1947; 1983; 1998; 2020; 2034; 2061; 2077; 2095; 2115; 2131; 2169; 2192; 2231; 2245; 2386; 2481; 2505; 2528; 2551; 2569; 2591; 2612; 2631; 2650; 2679; 2700; 2714; 2740; 2828; 2854; 2903; 2944; 2962; 3001; 3017; 3055; 3112; 3127; 3184; 3204; 3218; 3235; 3249; 3286; 3301; 3344; 3427; 3494; 3525; 3545; 3560; 3605; 3619; 3685; 3699; 3718; 3734; 3775; 3795; 3842; 3892; 3908; 3928; 3953; 3973; 3996; 4023; 4041; 4067; 4107; 4133; 4157; 4213; 4227; 4255; 4298; 4319; 4354; 4398; 4486; 4510; 4532; 4552; 4568; 4589; 4603; 4622; 4706; 4726; 4754; 4769; 4803; 4845; 4872; 4887; 4932; 4956; 4970; 4992; 5018; 5038; 5062; 5088; 5136; 5155; 5174; 5200; 5235; 5280; 5310; 5324; 5375; 5389; 5414; 5430; 5451; 5480
FspEI	!NNNNNNNNNNNNNGG	154	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 679; 706; 748; 769; 793; 835; 854; 883; 919; 956; 979; 998; 1028; 1049; 1076; 1115; 1141; 1160; 1232; 1258; 1306; 1345; 1364; 1397; 1424; 1445; 1471; 1508; 1535; 1568; 1587; 1616; 1687; 1720; 1745; 1763; 1795; 1813; 1840; 1885; 1903; 1933; 1951; 1981; 2044; 2071; 2111; 2130; 2180; 2280; 2349; 2379; 2457; 2506; 2528; 2556; 2592; 2637; 2666; 2702; 2721; 2749; 2769; 2832; 2855; 2963; 2995; 3013; 3042; 3085; 3114; 3225; 3254; 3297; 3318; 3346; 3379; 3399; 3424; 3451; 3476; 3498; 3526; 3552; 3573; 3624; 3645; 3663; 3711; 3747; 3803; 3828; 3852; 3881; 3904; 3928; 3954; 3976; 3995; 4020; 4060; 4096; 4161; 4246; 4270; 4299; 4333; 4354; 4374; 4419; 4446; 4465; 4498; 4550; 4581; 4608; 4660; 4758; 4829; 4874; 4935; 5000; 5034; 5060; 5078; 5114; 5184; 5207; 5229; 5253; 5286; 5334; 5369; 5387; 5444
Fsp4HI	GC!NGC	42	822; 873; 1017; 1134; 1315; 1524; 1591; 1761; 1953; 1956; 1963; 2115; 2153; 2156; 2286; 2805; 2827; 2841; 3279; 3418; 3470; 3481; 3571; 3576; 3613; 3654; 3741; 3744; 3747; 3983; 4079; 4120; 4134; 4248; 4587; 4602; 4813; 5019; 5022; 5087; 5230; 5385
GdiII	C!GGCCR	3	1503; 2153; 3415
GdiII	Y!GGCCG	5	1967; 2153; 3415; 3980; 4007
GlaI	GC!GC	25	596; 1522; 1692; 1720; 2109; 2774; 2782; 2808; 2830; 2839; 2852; 2883; 3502; 3510; 3574; 3611; 3877; 4137; 4313; 4399; 4802; 4911; 5085; 5185; 5252
GluI	GC!NGC	42	822; 873; 1017; 1134; 1315; 1524; 1591; 1761; 1953; 1956; 1963; 2115; 2153; 2156; 2286; 2805; 2827; 2841; 3279; 3418; 3470; 3481; 3571; 3576; 3613; 3654; 3741; 3744; 3747; 3983; 4079; 4120; 4134; 4248; 4587; 4602; 4813; 5019; 5022; 5087; 5230; 5385
GsaI	CCCAG!C	3	3056; 3128; 5127
GsaI	GCTGG!G	2	1098; 4017
GsuI	CTGGAGNNNNNNNNNNNNNN!	5	1579; 1876; 1936; 2116; 4349
GsuI	!NNNNNNNNNNNNNCTCCAG	2	991; 4292
HaeI	WGG!CCW	9	1102; 1291; 1333; 1903; 3330; 3591; 4953; 5405; 5416
HaeII	RGCG!Y	7	598; 1694; 2111; 2776; 2784; 3512; 5187
HaeIII	GG!CC	36	84; 277; 655; 824; 1067; 1102; 1136; 1159; 1291; 1333; 1505; 1605; 1847; 1903; 1913; 1969; 2006; 2074; 2155; 2475; 2617; 3272; 3278; 3287; 3330; 3417; 3591; 3982; 4009; 4518; 4575; 4608; 4953; 5387; 5405; 5416
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2184; 3705
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2150; 3671
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2183; 3704
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2152; 3673
HapII	C!CGG	21	601; 657; 667; 1460; 1583; 2727; 3414; 3491; 3513; 3541; 3672; 3762; 3829; 4010; 4285; 4293; 4385; 4859; 5049; 5075; 5222
HgaI	GACGCNNNNN!	5	526; 1122; 1549; 4219; 4298
HgaI	!NNNNNNNNNNNGCGTC	4	1239; 2842; 4737; 5315
HhaI	GCG!C	25	597; 1523; 1693; 1721; 2110; 2775; 2783; 2809; 2831; 2840; 2853; 2884; 3503; 3511; 3575; 3612; 3878; 4138; 4314; 4400; 4803; 4912; 5086; 5186; 5253
HinII	GR!CGYC	9	122; 175; 258; 444; 1250; 1541; 3509; 4211; 4290

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hin1II	CATG!	27	304; 364; 681; 705; 711; 723; 801; 947; 1158; 1437; 1668; 1698; 2088; 2133; 2939; 3079; 3151; 3242; 3383; 3728; 3914; 3945; 3971; 4327; 4711; 5431; 5482
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	2183; 3704
Hin4I	!NNNNNNNGABNNNNNNRTC	3	2151; 3672; 3702
Hin4I	GABNNNNNNRTCNNNNNNNNNNNN!	3	2183; 3704; 3734
Hin4I	!NNNNNNNGAYNNNNNVTC	2	2151; 3672
Hin6I	G!CGC	25	595; 1521; 1691; 1719; 2108; 2773; 2781; 2807; 2829; 2838; 2851; 2882; 3501; 3509; 3573; 3610; 3876; 4136; 4312; 4398; 4801; 4910; 5084; 5184; 5251
HinP1I	G!CGC	25	595; 1521; 1691; 1719; 2108; 2773; 2781; 2807; 2829; 2838; 2851; 2882; 3501; 3509; 3573; 3610; 3876; 4136; 4312; 4398; 4801; 4910; 5084; 5184; 5251
HincII	GTY!RAC	2	641; 2272
HindII	GTY!RAC	2	641; 2272
HindIII	A!AGCTT	3	622; 1369; 1408
Hinfl	G!ANTC	17	410; 604; 803; 953; 1280; 2098; 2160; 2552; 2574; 2984; 3994; 4128; 4180; 4238; 4275; 5057; 5453
HpaI	GTT!AAC	1	2272
HpaII	C!CGG	21	601; 657; 667; 1460; 1583; 2727; 3414; 3491; 3513; 3541; 3672; 3762; 3829; 4010; 4285; 4293; 4385; 4859; 5049; 5075; 5222
HphI	GGTGANNNNNNNN!	7	376; 1059; 1626; 1779; 1803; 4580; 4696
HphI	!NNNNNNNTCACC	4	948; 1098; 2626; 3687
Hpy8I	GTN!NAC	17	201; 539; 577; 641; 735; 755; 1050; 1254; 1263; 1500; 1794; 1884; 2272; 2556; 2573; 2628; 5115
Hpy99I	CGWCG!	13	645; 1312; 1498; 1543; 1744; 2005; 3599; 3627; 3921; 3936; 4213; 4598; 5331
Hpy166II	GTN!NAC	17	201; 539; 577; 641; 735; 755; 1050; 1254; 1263; 1500; 1794; 1884; 2272; 2556; 2573; 2628; 5115
Hpy188I	TCN!GA	17	585; 609; 762; 1042; 1187; 1395; 2045; 2683; 3292; 3476; 3820; 4173; 4274; 4753; 4887; 5240; 5318
Hpy188III	TC!NNGA	26	613; 1035; 1200; 1239; 1686; 1929; 2164; 2936; 2988; 3301; 3354; 3527; 3843; 3852; 3935; 3991; 4035; 4125; 4158; 4227; 4708; 4782; 4865; 4963; 5061; 5195
HpyAV	CCTTCNNNNNN!	8	843; 891; 936; 1113; 2112; 4154; 4261; 4940
HpyAV	!NNNNNGAAGG	10	763; 1135; 1803; 2742; 3637; 4366; 4382; 4565; 4882; 5192
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 645; 732; 2600; 3889; 4005; 4113; 4436; 4927; 5397; 5468
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 1031; 1307; 1496; 1880; 1988; 2569; 2581; 2624; 2734; 3625; 3812; 4593; 4726
HpyCH4V	TG!CA	23	636; 705; 755; 1077; 1500; 1577; 1962; 2258; 2285; 2353; 3070; 3079; 3142; 3151; 3266; 3342; 3401; 3560; 3735; 3749; 4819; 5115; 5482
HpyF3I	C!TNAG	11	606; 932; 1229; 2035; 2042; 2989; 3291; 4172; 4621; 4744; 5153
HpyF10VI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 711; 1142; 1482; 1523; 1583; 1596; 1640; 1871; 2063; 2114; 2736; 2766; 2793; 2835; 3076; 3148; 3199; 3278; 3500; 3584; 3607; 3746; 3869; 3952; 4219; 4406; 4610; 4809; 5381
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 1250; 1541; 3509; 4211; 4290
Hsp92II	CATG!	27	304; 364; 681; 705; 711; 723; 801; 947; 1158; 1437; 1668; 1698; 2088; 2133; 2939; 3079; 3151; 3242; 3383; 3728; 3914; 3945; 3971; 4327; 4711; 5431; 5482
HspAI	G!CGC	25	595; 1521; 1691; 1719; 2108; 2773; 2781; 2807; 2829; 2838; 2851; 2882; 3501; 3509; 3573; 3610; 3876; 4136; 4312; 4398; 4801; 4910; 5084; 5184; 5251
KasI	G!GCGCC	1	3508
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	2	649; 1433
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	2	652; 1761
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	2272
Kzo9I	!GATC	27	585; 609; 660; 1037; 1187; 1213; 1478; 1562; 2015; 2051; 2166; 3346; 3350; 3369; 3680; 3758; 3839; 3848; 3926; 4302; 4318; 4677; 4689; 4767; 4775; 4786; 4861
LguI	GCTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LguI	!NNNNGAAGAGC	2	3853; 4063
LpnI	RGC!GCGY	7	596; 1692; 2109; 2774; 2782; 3510; 5185
LpnPI	CCDGNNNNNNNNNN!	73	102; 295; 614; 670; 805; 862; 910; 944; 1006; 1021; 1082; 1150; 1174; 1259; 1347; 1473; 1596; 1614; 1651; 1726; 1741; 1801; 1855; 1927; 1993; 2008; 2047; 2107; 2124; 2246; 2551; 2740; 2963; 3001; 3017; 3057; 3112; 3129; 3229; 3314; 3427; 3504; 3526; 3549; 3685; 3699; 3718; 3775; 3842; 3892; 3908; 3965; 4023; 4232; 4298; 4322; 4398; 4487; 4590; 4623; 4854; 4872; 5018; 5038; 5062; 5088; 5137; 5235; 5280; 5310; 5389; 5414; 5451
LpnPI	!NNNNNNNNNNNNNNCHGG	70	75; 268; 552; 586; 642; 835; 883; 979; 1080; 1123; 1232; 1258; 1345; 1373; 1406; 1445; 1471; 1543; 1568; 1587; 1699; 1720; 1774; 1828; 1900; 1951; 1981; 2080; 2130; 2592; 2712; 2769; 2832; 3030; 3042; 3102; 3114; 3346; 3391; 3434; 3476; 3498; 3526; 3573; 3635; 3657; 3747; 3814; 3837; 3881; 3976; 3995; 4020; 4169; 4270; 4313; 4370; 4460; 4563; 4590; 4608; 4844; 4881; 5034; 5060; 5200; 5218; 5253; 5334; 5387
Lsp1109I	GCAGCNNNNNNNN!	9	884; 1326; 1974; 2297; 3582; 3624; 4145; 4598; 5098
Lsp1109I	!NNNNNNNNNNNNNGCTGC	9	1003; 1577; 2101; 2791; 3456; 3640; 3733; 4799; 5005
LweI	GCATCNNNNN!	10	911; 1472; 1643; 1808; 2325; 3088; 3160; 3808; 3872; 4147
LweI	!NNNNNNNNNNNGATGC	7	357; 1064; 1232; 3467; 3722; 3938; 5330
MabI	A!CCWGGT	1	3098
MaeI	C!TAG	10	592; 857; 1352; 2164; 2358; 2776; 3332; 4347; 4681; 4934
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 1031; 1307; 1496; 1880; 1988; 2569; 2581; 2624; 2734; 3625; 3812; 4593; 4726
MaeIII	!GTNAC	14	61; 148; 497; 954; 1614; 2297; 2798; 2810; 3629; 3935; 4625; 4891; 5007; 5070
MalI	GA!TC	27	587; 611; 662; 1039; 1189; 1215; 1480; 1564; 2017; 2053; 2168; 3348; 3352; 3371; 3682; 3760; 3841; 3850; 3928; 4304; 4320; 4679; 4691; 4769; 4777; 4788; 4863
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2933; 4122
MbiI	GAG!CGG	3	1439; 2769; 4176
MboI	!GATC	27	585; 609; 660; 1037; 1187; 1213; 1478; 1562; 2015; 2051; 2166; 3346; 3350; 3369; 3680; 3758; 3839; 3848; 3926; 4302; 4318; 4677; 4689; 4767; 4775; 4786; 4861
MboII	GAAGANNNNNNNN!	8	979; 1092; 1680; 2765; 2993; 3870; 4080; 4699
MboII	!NNNNNNNTCTTC	6	906; 1674; 4160; 4327; 4527; 4770
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2259
MfII	R!GATCY	11	585; 609; 660; 1213; 3680; 3926; 4318; 4677; 4689; 4775; 4786
MhII	GDGCH!C	21	620; 657; 730; 757; 790; 1367; 1472; 1502; 1601; 1664; 1994; 2041; 2093; 2700; 3455; 3548; 3622; 3812; 3874; 4584; 5117
MisI	TGG!CCA	2	1333; 3591
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	1333; 3591
MlyI	GAGTCNNNNN!	4	962; 2107; 2561; 2993
MlyI	!NNNNNGACTC	6	404; 598; 2154; 2568; 4174; 5051
Mly113I	GG!CGCC	1	3509
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1085; 2602
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	5034; 5218
MnII	CCTCNNNNNNN!	14	836; 874; 1015; 1030; 1246; 1357; 1633; 2228; 3292; 4110; 4316; 4630; 5000; 5324
MnII	!NNNNNGAGG	31	541; 717; 756; 777; 810; 927; 1036; 1092; 1281; 1314; 1440; 1521; 1695; 1758; 1770; 1821; 1911; 1941; 2064; 2188; 2653; 2984; 3262; 3305; 3320; 3360; 3424; 3560; 3917; 4347; 5250
Mph1103I	ATGCA!T	3	3081; 3153; 5484
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	1459; 2726; 4009; 4292
MroXI	GAANN!NNTTC	1	1678
MscI	TGG!CCA	2	1333; 3591
MseI	T!TAA	16	7; 692; 2210; 2271; 2392; 2413; 2424; 2436; 2447; 2464; 2562; 2833; 4652; 4666; 4671; 4723
MsiI	CAYNN!NNRTG	6	365; 706; 1612; 1669; 1789; 3946

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspI	C!CGG	21	601; 657; 667; 1460; 1583; 2727; 3414; 3491; 3513; 3541; 3672; 3762; 3829; 4010; 4285; 4293; 4385; 4859; 5049; 5075; 5222
Msp20I	TGG!CCA	2	1333; 3591
MspA1I	CMG!CKG	8	651; 1126; 1760; 1965; 3007; 3615; 4844; 5089
MspCI	C!TTAAG	1	2391
MspJI	CNNRNNNNNNNNNN!	283	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; 627; 640; 662; 679; 696; 714; 732; 762; 780; 795; 810; 828; 861; 888; 904; 919; 943; 956; 972; 990; 1004; 1020; 1033; 1047; 1068; 1081; 1102; 1121; 1135; 1149; 1167; 1180; 1198; 1212; 1229; 1249; 1281; 1296; 1311; 1330; 1346; 1363; 1378; 1400; 1423; 1439; 1452; 1472; 1485; 1498; 1513; 1530; 1545; 1566; 1595; 1608; 1623; 1650; 1669; 1698; 1711; 1725; 1740; 1758; 1771; 1788; 1801; 1815; 1836; 1854; 1867; 1888; 1906; 1926; 1941; 1959; 1978; 1992; 2007; 2020; 2046; 2060; 2077; 2095; 2123; 2137; 2157; 2176; 2192; 2216; 2233; 2246; 2287; 2301; 2314; 2332; 2370; 2385; 2403; 2444; 2468; 2488; 2506; 2527; 2550; 2582; 2597; 2619; 2637; 2650; 2671; 2688; 2701; 2714; 2730; 2743; 2773; 2788; 2813; 2831; 2844; 2859; 2883; 2897; 2921; 2946; 2962; 3000; 3016; 3055; 3069; 3083; 3111; 3127; 3141; 3155; 3184; 3197; 3218; 3227; 3249; 3279; 3295; 3313; 3343; 3366; 3390; 3414; 3433; 3461; 3487; 3503; 3516; 3539; 3553; 3573; 3586; 3600; 3619; 3633; 3646; 3662; 3677; 3690; 3706; 3721; 3737; 3762; 3781; 3797; 3810; 3823; 3841; 3855; 3869; 3885; 3907; 3923; 3942; 3964; 3980; 4003; 4022; 4036; 4052; 4066; 4086; 4102; 4115; 4137; 4170; 4184; 4204; 4217; 4231; 4285; 4298; 4321; 4334; 4353; 4370; 4397; 4433; 4466; 4485; 4510; 4531; 4558; 4571; 4588; 4602; 4617; 4633; 4693; 4718; 4734; 4756; 4769; 4783; 4814; 4828; 4853; 4871; 4886; 4899; 4918; 4931; 4946; 4975; 4994; 5012; 5037; 5052; 5071; 5087; 5106; 5124; 5140; 5154; 5173; 5200; 5223; 5245; 5264; 5279; 5292; 5309; 5329; 5356; 5369; 5388; 5413; 5436; 5450; 5463; 5480
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; 593; 612; 636; 653; 670; 688; 706; 736; 760; 778; 802; 821; 843; 862; 883; 904; 930; 950; 979; 1021; 1055; 1076; 1096; 1123; 1141; 1158; 1186; 1204; 1225; 1244; 1270; 1292; 1320; 1338; 1358; 1379; 1397; 1420; 1442; 1459; 1483; 1500; 1519; 1540; 1560; 1580; 1597; 1616; 1635; 1672; 1699; 1720; 1738; 1760; 1789; 1810; 1828; 1867; 1885; 1915; 1933; 1952; 1975; 1994; 2020; 2040; 2061; 2080; 2097; 2116; 2135; 2161; 2190; 2219; 2261; 2344; 2379; 2406; 2429; 2458; 2502; 2524; 2556; 2592; 2609; 2630; 2667; 2687; 2704; 2721; 2756; 2774; 2792; 2809; 2833; 2855; 2882; 2910; 2936; 2974; 2995; 3012; 3030; 3053; 3074; 3102; 3125; 3146; 3164; 3185; 3202; 3225; 3249; 3269; 3287; 3309; 3340; 3362; 3388; 3407; 3424; 3452; 3471; 3490; 3508; 3526; 3547; 3569; 3593; 3626; 3646; 3664; 3685; 3711; 3738; 3755; 3772; 3789; 3815; 3837; 3859; 3877; 3897; 3916; 3938; 3976; 3996; 4020; 4040; 4060; 4087; 4111; 4144; 4163; 4191; 4213; 4242; 4270; 4295; 4314; 4333; 4354; 4371; 4388; 4419; 4446; 4466; 4489; 4509; 4546; 4563; 4582; 4608; 4628; 4667; 4694; 4713; 4731; 4768; 4786; 4827; 4845; 4871; 4888; 4920; 4949; 4977; 4998; 5021; 5040; 5061; 5079; 5096; 5114; 5140; 5161; 5181; 5201; 5219; 5240; 5266; 5283; 5302; 5321; 5350; 5369; 5387; 5406; 5424; 5442; 5465
MspR9I	CC!NGG	32	90; 283; 657; 658; 850; 898; 994; 1009; 1138; 1247; 1602; 1612; 1714; 1735; 1789; 1843; 1915; 1996; 2095; 3045; 3100; 3117; 3513; 3673; 3896; 4286; 4475; 4578; 5050; 5268; 5281; 5402
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	2259
MvaI	CC!WGG	26	90; 283; 850; 898; 994; 1009; 1138; 1247; 1602; 1612; 1714; 1735; 1789; 1843; 1915; 1996; 2095; 3045; 3100; 3117; 3896; 4475; 4578; 5268; 5281; 5402
Mva1269I	GAATGCN!	1	2260
Mva1269I	G!CATTC	1	2353
MvnI	CG!CG	19	60; 651; 1523; 1760; 2078; 2158; 2433; 2809; 2829; 2853; 2884; 3575; 3876; 4314; 4398; 4461; 4530; 4803; 5384
MvrI	CGAT!CG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MwoI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 711; 1142; 1482; 1523; 1583; 1596; 1640; 1871; 2063; 2114; 2736; 2766; 2793; 2835; 3076; 3148; 3199; 3278; 3500; 3584; 3607; 3746; 3869; 3952; 4219; 4406; 4610; 4809; 5381
NaeI	GCC!GGC	4	1461; 2728; 4011; 4294
NarI	GG!CGCC	1	3509
NciI	CC!SGG	6	657; 658; 3513; 3673; 4286; 5050
NcoI	C!CATGG	3	360; 3238; 3941
NdeI	CA!TATG	1	234
NdeII	!GATC	27	585; 609; 660; 1037; 1187; 1213; 1478; 1562; 2015; 2051; 2166; 3346; 3350; 3369; 3680; 3758; 3839; 3848; 3926; 4302; 4318; 4677; 4689; 4767; 4775; 4786; 4861
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	794
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	830
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	1459; 2726; 4009; 4292
NheI	G!CTAGC	1	591
NlaII	CATG!	27	304; 364; 681; 705; 711; 723; 801; 947; 1158; 1437; 1668; 1698; 2088; 2133; 2939; 3079; 3151; 3242; 3383; 3728; 3914; 3945; 3971; 4327; 4711; 5431; 5482
NlaIV	GGN!NCC	22	467; 647; 655; 662; 729; 789; 1180; 1431; 2007; 2664; 2685; 2697; 2888; 3049; 3121; 3510; 3545; 4393; 4472; 4517; 5360; 5399
NlaCI	CATCACNNNNNNNNNNNNNNNN!	4	766; 2341; 2656; 4248
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 1054; 5320
Nli3877I	CYCGR!G	4	617; 660; 1661; 1703
NmeAIII	GCCGAGNNNNNNNNNNNNNNNN!	2	3298; 3734
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1070; 3263
NmeDI	RCCGGYNNNNNN!	7	678; 1471; 1594; 2738; 3840; 4021; 4304
NmeDI	!NNNNNNNNNNNNRCCGGY	7	653; 1446; 1569; 2713; 3815; 3996; 4279
NmuCI	!GTSAC	5	954; 1614; 2798; 3629; 3935
NotI	GC!GGCCGC	1	2153
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3611
NsiI	ATGCA!T	3	3081; 3153; 5484
NspI	RCATG!Y	5	705; 3079; 3151; 3914; 5431
NspV	TT!CGAA	2	627; 4191
OliI	CACNN!NNGTG	2	1612; 1789
PabI	GTA!C	15	220; 245; 300; 333; 384; 541; 648; 719; 1121; 1432; 1751; 1862; 1886; 2144; 3816
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3079; 3151; 3914
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	2935; 4707
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	4	897; 1995; 4474; 4577
PauI	G!CGCGC	0	
PceI	AGG!CCT	2	1102; 3330
PciI	A!CATGT	1	5427
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3853; 4063
PcsI	WCGNNNN!NNNCGW	10	1304; 1463; 2075; 2132; 3803; 3880; 4123; 4197; 4590; 5108
PctI	GAATGCN!	1	2260
PctI	G!CATT	1	2353
PdiI	GCC!GGC	4	1461; 2728; 4011; 4294
PdmI	GAANN!NNTTC	1	1678
PfeI	G!AWTC	7	803; 1280; 3994; 4128; 4238; 4275; 5453
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3627
PfIMI	CCANNNN!NTGG	2	1854; 2130
PfoI	T!CCNGGA	5	1007; 1712; 1733; 2093; 4284
PhoI	GG!CC	36	84; 277; 655; 824; 1067; 1102; 1136; 1159; 1291; 1333; 1505; 1605; 1847; 1903; 1913; 1969; 2006; 2074; 2155; 2475; 2617; 3272; 3278; 3287; 3330; 3417; 3591; 3982; 4009; 4518; 4575; 4608; 4953; 5387; 5405; 5416

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	1	3890
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	1374; 3455; 3710
PleI	GAGTCNNNN!	4	961; 2106; 2560; 2992
PleI	!NNNNNGACTC	6	404; 598; 2154; 2568; 4174; 5051
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2591
PpiI	!NNNNNNNNNGAGNNNNNGTTC	4	1438; 1552; 1756; 4721
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	4	1470; 1584; 1788; 4753
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2559
PpsI	GAGTCNNNN!	4	961; 2106; 2560; 2992
PpsI	!NNNNNGACTC	6	404; 598; 2154; 2568; 4174; 5051
Ppu10I	A!TGCAT	3	3077; 3149; 5480
Ppu21I	YAC!GTR	3	340; 2625; 3813
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	5427
PshAI	GACNN!NNGTC	1	1306
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2292; 2497
Psp03I	GGWC!C	3	2064; 4028; 4473
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	26	88; 281; 848; 896; 992; 1007; 1136; 1245; 1600; 1610; 1712; 1733; 1787; 1841; 1913; 1994; 2093; 3043; 3098; 3115; 3894; 4473; 4576; 5266; 5279; 5400
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	1	1614
PspGI	!CCWGG	26	88; 281; 848; 896; 992; 1007; 1136; 1245; 1600; 1610; 1712; 1733; 1787; 1841; 1913; 1994; 2093; 3043; 3098; 3115; 3894; 4473; 4576; 5266; 5279; 5400
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 647; 655; 662; 729; 789; 1180; 1431; 2007; 2664; 2685; 2697; 2888; 3049; 3121; 3510; 3545; 4393; 4472; 4517; 5360; 5399
PspOMI	G!GGCCC	1	653
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 3239; 4238
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	2	1977; 3641
PspPI	G!GNCC	17	83; 276; 654; 823; 1066; 1158; 1604; 1845; 2005; 2061; 2073; 2616; 4025; 4470; 4516; 4574; 4607
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNNNN!	3	3062; 3134; 4640
PspPRI	!NNNNNNNNNNNNNNNNNNCTGRGG	4	918; 1346; 2975; 4170
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	4610
PstI	CTGCA!G	1	638
PstNI	CAGNNN!CTG	4	1340; 2111; 4610; 5018
PsuI	R!GATCY	11	585; 609; 660; 1213; 3680; 3926; 4318; 4677; 4689; 4775; 4786
PsyI	GACN!NNGTC	1	3627
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1965; 3007; 3615
RcaI	T!CATGA	2	2935; 4707
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	4024
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	2238
RleAI	!NNNNNNNNNTGTGGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	15	219; 244; 299; 332; 383; 540; 647; 718; 1120; 1431; 1750; 1861; 1885; 2143; 3815
RsaNI	G!TAC	15	218; 243; 298; 331; 382; 539; 646; 717; 1119; 1430; 1749; 1860; 1884; 2142; 3814
RseI	CAYNN!NNRTG	6	365; 706; 1612; 1669; 1789; 3946
RsrII	CG!GWCCG	1	4025
Rsr2I	CG!GWCCG	1	4025
SacI	GAGCT!C	1	620
SacII	CCGC!GG	2	652; 1761
SaI	G!TCGAC	1	639
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	3853; 4063
SaqAI	T!TAA	16	7; 692; 2210; 2271; 2392; 2413; 2424; 2436; 2447; 2464; 2562; 2833; 4652; 4666; 4671; 4723
SatI	GC!NGC	42	822; 873; 1017; 1134; 1315; 1524; 1591; 1761; 1953; 1956; 1963; 2115; 2153; 2156; 2286; 2805; 2827; 2841; 3279; 3418; 3470; 3481; 3571; 3576; 3613; 3654; 3741; 3744; 3747; 3983; 4079; 4120; 4134; 4248; 4587; 4602; 4813; 5019; 5022; 5087; 5230; 5385
Sau96I	G!GNCC	17	83; 276; 654; 823; 1066; 1158; 1604; 1845; 2005; 2061; 2073; 2616; 4025; 4470; 4516; 4574; 4607
Sau3AI	!GATC	27	585; 609; 660; 1037; 1187; 1213; 1478; 1562; 2015; 2051; 2166; 3346; 3350; 3369; 3680; 3758; 3839; 3848; 3926; 4302; 4318; 4677; 4689; 4767; 4775; 4786; 4861
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	962; 2107; 2561; 2993
SchI	!NNNNNGACTC	6	404; 598; 2154; 2568; 4174; 5051
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	32	90; 283; 657; 658; 850; 898; 994; 1009; 1138; 1247; 1602; 1612; 1714; 1735; 1789; 1843; 1915; 1996; 2095; 3045; 3100; 3117; 3513; 3673; 3896; 4286; 4475; 4578; 5050; 5268; 5281; 5402
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	6	1104; 1740; 3087; 3159; 3328; 5270
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	2072; 3664; 4149
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	21	620; 657; 730; 757; 790; 1367; 1472; 1502; 1601; 1664; 1994; 2041; 2093; 2700; 3455; 3548; 3622; 3812; 3874; 4584; 5117
SelI	!CGCG	19	58; 649; 1521; 1758; 2076; 2156; 2431; 2807; 2827; 2851; 2882; 3573; 3874; 4312; 4396; 4459; 4528; 4801; 5382
SetI	ASST!	80	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 689; 716; 812; 862; 883; 1034; 1169; 1238; 1306; 1310; 1325; 1349; 1373; 1412; 1454; 1487; 1499; 1559; 1592; 1769; 1808; 1856; 1867; 1883; 1967; 1991; 2036; 2141; 2149; 2199; 2220; 2229; 2241; 2290; 2457; 2572; 2584; 2627; 2664; 2714; 2737; 2861; 3009; 3104; 3297; 3410; 3538; 3617; 3628; 3700; 3771; 3815; 4075; 4221; 4265; 4596; 4627; 4686; 4729; 4872; 4893; 4992; 5129; 5144; 5163; 5175; 5219; 5265; 5316
SexAI	A!CCWGGT	1	3098
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	911; 1472; 1643; 1808; 2325; 3088; 3160; 3808; 3872; 4147
SfaNI	!NNNNNNNNNGATGC	7	357; 1064; 1232; 3467; 3722; 3938; 5330
Sfcl	C!TRYAG	5	634; 1266; 2844; 4971; 5162
SfiI	GGCCNNNN!NGGCC	1	3284
SfoI	GGC!GCC	1	3510
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	2	652; 1761
SfuI	TT!CGAA	2	627; 4191

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	232	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 696; 714; 732; 762; 786; 804; 819; 861; 888; 909; 930; 943; 956; 984; 1005; 1020; 1047; 1081; 1102; 1122; 1135; 1149; 1167; 1180; 1212; 1230; 1251; 1285; 1311; 1330; 1346; 1364; 1380; 1400; 1423; 1439; 1452; 1472; 1485; 1498; 1513; 1530; 1545; 1566; 1595; 1608; 1623; 1650; 1669; 1698; 1711; 1725; 1740; 1758; 1771; 1788; 1801; 1815; 1836; 1854; 1867; 1893; 1906; 1926; 1941; 1959; 1978; 1992; 2007; 2020; 2046; 2061; 2082; 2097; 2123; 2137; 2157; 2176; 2216; 2245; 2287; 2370; 2444; 2528; 2550; 2582; 2619; 2637; 2656; 2671; 2713; 2730; 2747; 2782; 2796; 2813; 2835; 2859; 2883; 2948; 2962; 3000; 3016; 3056; 3069; 3088; 3111; 3128; 3141; 3160; 3190; 3211; 3228; 3251; 3286; 3313; 3344; 3366; 3392; 3414; 3433; 3461; 3497; 3516; 3539; 3553; 3573; 3586; 3600; 3619; 3633; 3652; 3684; 3698; 3711; 3737; 3768; 3781; 3798; 3815; 3829; 3846; 3864; 3879; 3907; 3923; 3942; 3964; 3980; 4003; 4022; 4047; 4066; 4086; 4113; 4137; 4170; 4189; 4217; 4231; 4297; 4321; 4336; 4359; 4380; 4397; 4445; 4472; 4486; 4515; 4539; 4572; 4589; 4609; 4622; 4635; 4693; 4720; 4739; 4769; 4794; 4814; 4828; 4853; 4871; 4908; 4946; 4975; 5003; 5017; 5037; 5052; 5073; 5087; 5106; 5124; 5140; 5180; 5200; 5227; 5245; 5266; 5279; 5292; 5309; 5333; 5356; 5388; 5413; 5440; 5462
SgeI	!NNNNNNNNNNNNCNG	198	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 670; 688; 706; 736; 760; 778; 802; 835; 862; 883; 904; 930; 958; 979; 1021; 1055; 1076; 1096; 1123; 1141; 1162; 1186; 1204; 1225; 1259; 1285; 1304; 1338; 1358; 1397; 1420; 1446; 1468; 1487; 1504; 1540; 1569; 1587; 1624; 1643; 1672; 1699; 1720; 1738; 1762; 1789; 1810; 1828; 1867; 1885; 1915; 1933; 1952; 1975; 1994; 2020; 2044; 2061; 2080; 2097; 2116; 2143; 2190; 2219; 2261; 2344; 2418; 2502; 2524; 2556; 2593; 2611; 2630; 2687; 2704; 2721; 2756; 2774; 2794; 2814; 2833; 2857; 2922; 2974; 3030; 3062; 3085; 3102; 3134; 3164; 3185; 3202; 3225; 3260; 3287; 3318; 3340; 3366; 3388; 3407; 3435; 3471; 3490; 3513; 3534; 3552; 3569; 3593; 3626; 3658; 3685; 3711; 3742; 3772; 3789; 3815; 3838; 3859; 3881; 3901; 3921; 3938; 3977; 3996; 4021; 4040; 4060; 4087; 4111; 4144; 4163; 4191; 4213; 4271; 4295; 4314; 4333; 4354; 4371; 4419; 4446; 4466; 4489; 4513; 4546; 4563; 4583; 4609; 4667; 4694; 4713; 4743; 4768; 4788; 4827; 4845; 4882; 4920; 4949; 4977; 4998; 5026; 5047; 5080; 5098; 5154; 5174; 5201; 5219; 5240; 5266; 5283; 5307; 5330; 5362; 5387; 5414; 5436; 5465
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	2	652; 1761
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2656; 4443; 5236
SimI	!GACCC	6	106; 1754; 1931; 3937; 4505; 4753
SinI	G!GWCC	3	2061; 4025; 4470
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	6	365; 706; 1612; 1669; 1789; 3946
SmlI	C!TYRAG	8	613; 619; 1237; 2391; 3900; 4782; 5059; 5321
SmoI	C!TYRAG	8	613; 619; 1237; 2391; 3900; 4782; 5059; 5321
SmuI	CCCGCNNNN!	14	93; 119; 286; 1131; 1233; 1657; 1765; 1942; 2083; 2831; 3186; 3207; 4403; 4535
SmuI	!NNNNNNNGCGGG	8	644; 1168; 1432; 2762; 3632; 4169; 4307; 4454
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3079; 3151; 3914
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	12	18; 629; 1375; 2259; 2323; 2401; 2427; 2438; 3085; 3157; 3249; 4667
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	2	1102; 3330

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 649; 986; 1124; 1226; 1650; 1758; 1797; 1890; 1935; 2064; 2076; 2156; 2824; 2827; 2841; 2931; 3179; 3191; 3200; 3212; 3222; 3233; 3279; 3418; 3481; 3983; 4028; 4094; 4120; 4245; 4248; 4396; 4528; 4835; 4979; 5475
SsiI	G!CGG	33	370; 403; 528; 651; 821; 1133; 1175; 1439; 1523; 1760; 1952; 1955; 2152; 2769; 2796; 2884; 2994; 3575; 3639; 3740; 3743; 4023; 4078; 4176; 4314; 4461; 4601; 4844; 5089; 5210; 5229; 5356; 5384
SspI	AAT!ATT	2	2417; 2970
SspDI	G!GCGCC	1	3508
SspD5I	GGTGANNNNNNNN!	7	376; 1059; 1626; 1779; 1803; 4580; 4696
SspD5I	!NNNNNNNNNTCACC	4	947; 1097; 2625; 3686
SstI	GAGCT!C	1	620
SstII	CCG!GG	2	652; 1761
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	992
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTCG	0	
Sth132I	CCCGNNNN!	29	92; 118; 285; 663; 914; 1130; 1232; 1478; 1601; 1656; 1664; 1706; 1764; 1901; 1941; 2015; 2082; 2708; 2830; 3185; 3206; 3519; 3922; 4061; 4132; 4402; 4534; 4764; 5202
Sth132I	!NNNNNNNNCCGGG	22	15; 407; 470; 643; 963; 1167; 1431; 2709; 2761; 2862; 3589; 3631; 3664; 4168; 4277; 4306; 4453; 4557; 4588; 5041; 5085; 5293
Sth302II	CC!GG	21	602; 658; 668; 1461; 1584; 2728; 3415; 3492; 3514; 3542; 3673; 3763; 3830; 4011; 4286; 4294; 4386; 4860; 5050; 5076; 5223
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	4	3377; 3834; 3859; 4313
StsI	!NNNNNNNNNNNNNNNNCATCC	9	743; 831; 888; 1043; 1620; 1695; 1824; 1872; 3181
StuI	AGG!CCT	2	1102; 3330
StyI	C!CWGGG	5	360; 3238; 3331; 3941; 4346
StyD4I	!CCNGG	32	88; 281; 655; 656; 848; 896; 992; 1007; 1136; 1245; 1600; 1610; 1712; 1733; 1787; 1841; 1913; 1994; 2093; 3043; 3098; 3115; 3511; 3671; 3894; 4284; 4473; 4576; 5048; 5266; 5279; 5400
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 645; 732; 2600; 3889; 4005; 4113; 4436; 4927; 5397; 5468
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 1034; 1310; 1499; 1883; 1991; 2572; 2584; 2627; 2737; 3628; 3815; 4596; 4729
TaqI	T!CGA	21	614; 627; 640; 815; 842; 1310; 1481; 1775; 1802; 1946; 2658; 3349; 3622; 3778; 3802; 3838; 4000; 4191; 4236; 4491; 5329
TaqII	GACCGANNNNNNNNNN!	3	2529; 3546; 4214
TaqII	!NNNNNNNNNTCGGTC	1	4458
TaqII	CACCCANNNNNNNNNN!	3	805; 910; 2137
TaqII	!NNNNNNNNNTGGGTG	3	172; 3413; 4005
TasI	!AATT	12	18; 629; 1375; 2259; 2323; 2401; 2427; 2438; 3085; 3157; 3249; 4667
TatI	W!GTACW	9	217; 297; 330; 381; 716; 1748; 1859; 1883; 2141
TauI	GCSG!C	23	824; 1136; 1526; 1763; 1955; 1958; 2155; 2158; 2829; 2843; 3281; 3420; 3483; 3578; 3743; 3746; 3985; 4081; 4122; 4250; 4604; 5232; 5387
TfiI	G!AWTC	7	803; 1280; 3994; 4128; 4238; 4275; 5453
ThiI	C!TCGAG	1	613
TruII	T!TAA	16	7; 692; 2210; 2271; 2392; 2413; 2424; 2436; 2447; 2464; 2562; 2833; 4652; 4666; 4671; 4723
Tru9I	T!TAA	16	7; 692; 2210; 2271; 2392; 2413; 2424; 2436; 2447; 2464; 2562; 2833; 4652; 4666; 4671; 4723
TscAI	CASTGNN!	7	1334; 1645; 2355; 3638; 4748; 5019; 5032
TseI	G!CWGC	19	872; 1016; 1314; 1590; 1962; 2114; 2285; 2804; 3469; 3570; 3612; 3653; 3746; 4133; 4586; 4812; 5018; 5021; 5086
TsoI	TARCCANNNNNNNNNN!	2	2481; 2828
TsoI	!NNNNNNNNNTGGYTA	3	841; 2286; 4038
Tsp45I	!GTSAC	5	954; 1614; 2798; 3629; 3935
Tsp509I	!AATT	12	18; 629; 1375; 2259; 2323; 2401; 2427; 2438; 3085; 3157; 3249; 4667
TspDTI	ATGAANNNNNNNNNN!	6	724; 1412; 1681; 2267; 3568; 4272
TspDTI	!NNNNNNNNNTTCAT	6	26; 873; 1560; 3986; 4442; 4649

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspEI	!AATT	12	18; 629; 1375; 2259; 2323; 2401; 2427; 2438; 3085; 3157; 3249; 4667
TspGWI	ACGGANNNNNNNNNNN!	1	4384
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	7	1334; 1645; 2355; 3638; 4748; 5019; 5032
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3627
Tth111II	CAARCANNNNNNNNNN!	3	934; 1209; 4836
Tth111II	!NNNNNNNNNTGYTTG	3	3944; 4804; 4843
UnbI	!GGNCC	17	82; 275; 653; 822; 1065; 1157; 1603; 1844; 2004; 2060; 2072; 2615; 4024; 4469; 4515; 4573; 4606
Van91I	CCANNNN!NTGG	2	1854; 2130
Vha464I	C!TTAAG	1	2391
VneI	G!TGCAC	3	753; 1498; 5113
VpaK11AI	!GGWCC	3	2060; 4024; 4469
VpaK11BI	G!GWCC	3	2061; 4025; 4470
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	5	629; 1375; 2323; 2427; 2438
XbaI	T!CTAGA	1	2163
XceI	RCATG!Y	5	705; 3079; 3151; 3914; 5431
XcmI	CCANNNN!NNNTGG	2	1911; 1992
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	11	585; 609; 660; 1213; 3680; 3926; 4318; 4677; 4689; 4775; 4786
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	3331; 4346
XmiI	GT!MKAC	2	640; 1253
XmnI	GAANN!NN TTC	1	1678
XspI	C!TAG	10	592; 857; 1352; 2164; 2358; 2776; 3332; 4347; 4681; 4934
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3081; 3153; 5484