

pFusionRed-PCNA vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2312; 2517
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2600; 3556; 5345
AatI	AGG!CCT	3	1039; 1453; 3350
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1190
AccII	CG!CG	19	60; 1358; 1366; 1389; 1663; 2417; 2453; 2829; 2849; 2873; 2904; 3595; 3896; 4334; 4418; 4481; 4550; 4823; 5404
AccIII	T!CCGGA	1	1321
Acc16I	TGC!GCA	1	3631
Acc36I	ACCTGCNNNN!	3	1493; 3797; 4247
Acc36I	!NNNNNNNNGCAGGT	1	3416
Acc65I	G!GTACC	1	2006
AccB1I	G!GYRCC	7	465; 664; 724; 2006; 2682; 3528; 3563
AccB7I	CCANNNN!NTGG	1	1209
AccBSI	CCG!CTC	2	2953; 4142
AccBSI	GAG!CGG	2	2789; 4196
AceIII	CAGCTCNNNNNNN!	2	1534; 2485
AceIII	!NNNNNNNNNNGAGCTG	2	552; 610
AciI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1356; 1557; 1566; 2844; 2847; 2861; 2951; 3199; 3211; 3220; 3232; 3242; 3253; 3299; 3438; 3501; 4003; 4048; 4114; 4140; 4265; 4268; 4416; 4548; 4855; 4999; 5495
AciI	G!CGG	31	370; 403; 528; 758; 1070; 1112; 1358; 1475; 1533; 1663; 2101; 2789; 2816; 2904; 3014; 3595; 3659; 3760; 3763; 4043; 4098; 4196; 4334; 4481; 4621; 4864; 5109; 5230; 5249; 5376; 5404
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	10	2163; 2172; 2181; 3397; 3708; 3954; 4346; 4705; 4803; 4889
AclWI	!NNNNNGATCC	8	580; 1145; 1367; 2159; 3773; 4317; 4704; 4801
AcoI	Y!GGCCR	6	1268; 1574; 3435; 3609; 4000; 4027
AcsI	R!AATY	6	1757; 1804; 1879; 2343; 2447; 2458
AcuI	CTGAAGNNNNNNNNNNNNNNN!	3	1120; 3675; 4107
AcuI	!NNNNNNNNNNNNNCTTCAG	1	4905
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	8	122; 175; 258; 444; 1187; 3529; 4231; 4310
AdeI	CACNNN!GTG	2	1260; 2645
AfaI	GT!AC	13	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1774; 2008; 2075; 3835
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	25	49; 721; 1000; 1066; 1209; 1328; 1357; 1398; 1416; 1572; 2541; 2867; 3259; 3510; 4054; 4335; 4367; 4499; 4534; 4584; 4616; 4969; 5248; 5414; 5432
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	3	1364; 2415; 5447
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	10	687; 1687; 1747; 1987; 2045; 2940; 2984; 2994; 3407; 4983
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	1	1509
AjiI	GAC!GTG	0	
AjnI	!CCWGG	19	88; 281; 785; 929; 944; 1073; 1391; 1397; 1571; 1697; 3063; 3118; 3135; 3914; 4493; 4596; 5286; 5299; 5420
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	613
AlfI	GCANNNNNTGCNNNNNNNNNN!	3	1833; 3103; 3175
AlfI	!NNNNNNNNNGCANNNNNTGC	3	1799; 3069; 3141
AloI	GAACNNNNNTCCNNNNNNNNNN!	1	2611
AloI	!NNNNNNNGGANNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	1	2579
AluI	AG!CT	20	566; 624; 651; 797; 1104; 1469; 1524; 1778; 1957; 2308; 2475; 2732; 3027; 3315; 3635; 4093; 4890; 5147; 5193; 5283
AluBI	AG!CT	20	566; 624; 651; 797; 1104; 1469; 1524; 1778; 1957; 2308; 2475; 2732; 3027; 3315; 3635; 4093; 4890; 5147; 5193; 5283
AlwI	GGATCNNNN!	10	2163; 2172; 2181; 3397; 3708; 3954; 4346; 4705; 4803; 4889
AlwI	!NNNNNGATCC	8	580; 1145; 1367; 2159; 3773; 4317; 4704; 4801
Alw21I	GWGCW!C	4	694; 3642; 3832; 5137
Alw26I	GTCTCN!	2	434; 1515
Alw26I	!NNNNNGAGAC	7	1042; 1132; 1231; 2953; 3371; 4390; 4518
Alw44I	G!TGCAC	2	690; 5133
AlwNI	CAGNNN!CTG	2	4630; 5038
Ama87I	C!YCGRG	0	
Aor13HI	T!CCGGA	1	1321
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	3	3097; 3169; 4631
ApaLI	G!TGCAC	2	690; 5133
ApeKI	G!CWGC	18	809; 953; 1251; 1521; 1559; 2305; 2824; 3489; 3590; 3632; 3673; 3766; 4153; 4606; 4832; 5038; 5041; 5106
ApoI	R!AATTY	6	1757; 1804; 1879; 2343; 2447; 2458
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4044
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	4	1920; 3838; 4491; 5329
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	3928
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	785
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	3	1338; 1973; 3357
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	1	1976
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	4099
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNCRANNNNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	1	1387
AseI	AT!TAAT	1	7
Asi256I	G!ATC	26	586; 1125; 1151; 1373; 1825; 2139; 2156; 2165; 2174; 2187; 3367; 3371; 3390; 3701; 3779; 3860; 3869; 3947; 4323; 4339; 4698; 4710; 4788; 4796; 4807; 4882
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3647
Asp700I	GAANN!NNTTC	1	1982
Asp718I	G!GTACC	1	2006
AspA2I	C!CTAGG	2	3351; 4366
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	27	597; 1084; 1291; 1389; 1391; 1621; 1677; 2795; 2803; 2829; 2851; 2860; 2873; 2904; 3523; 3531; 3595; 3632; 3898; 4158; 4334; 4420; 4823; 4932; 5106; 5206; 5273
AspS9I	G!GNCC	18	83; 276; 760; 1003; 1095; 1116; 1200; 1348; 1353; 1395; 1437; 1649; 2636; 4045; 4490; 4536; 4594; 4627
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	4211
AsuC2I	CC!SGG	7	836; 1184; 1352; 3533; 3693; 4306; 5070
AsuHPI	GGTGANNNNNNNN!	8	376; 627; 996; 1306; 1813; 2061; 4600; 4716
AsuHPI	!NNNNNNNTCACC	5	885; 1518; 1584; 2646; 3707
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	0	
AvaII	G!GWCC	5	1200; 1395; 1437; 4045; 4490
AviII	TGC!GCA	1	3631

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AvrII	C!CTAGG	2	3351; 4366
AxyI	CC!TNAGG	3	869; 3009; 4641
BaeI	ACNNNGTAYCNNNNNNNNNN!	1	2023
BaeI	!NNNNNNNGRTACNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNNGTAYC	1	1990
BaeGI	GKGCMI!C	6	667; 694; 727; 3475; 3568; 5137
BalI	TGG!CCA	3	1270; 1576; 3611
BamHI	G!GATCC	1	2164
BanI	G!GYRCC	7	465; 664; 724; 2006; 2682; 3528; 3563
BanII	GRGCY!C	4	1405; 2720; 3894; 4604
BanIII	AT!CGAT	2	1371; 3369
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	1	1999
BarI	GTANNNNNNCTTCNNNNNNNNNN!	1	2031
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	1209
BauI	C!ACGAG	3	1255; 4247; 5274
BauI	C!TCGTG	2	1105; 4121
BbeI	GGCGC!C	1	3532
Bbr7I	GAAGACNNNNNN!	1	916
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	911
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	3099; 3171; 3934
BbvI	GCAGCNNNNNNNN!	9	821; 1263; 1533; 2317; 3602; 3644; 4165; 4618; 5118
BbvI	!NNNNNNNNNNNGCTGC	8	940; 1546; 2811; 3476; 3660; 3753; 4819; 5025
Bbv12I	GWGCW!C	4	694; 3642; 3832; 5137
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	1414; 2659; 3223; 3749; 4251
BccI	!NNNNNGATGG	5	1291; 1725; 2627; 3407; 3835
BceAI	ACGGCNNNNNNNNNN!	6	822; 966; 1017; 1083; 3955; 4442
BceAI	!NNNNNNNNNNNGCCGT	3	2670; 3488; 4947
BceFI	ACGGCNNNNNNNNNN!	6	822; 966; 1017; 1083; 3955; 4442
BceFI	!NNNNNNNNNNNGCCGT	3	2671; 3489; 4948
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2958; 3748; 5249
BciVI	!NNNNNGGATAC	1	1659
BclI	T!GATCA	1	2186
BcnI	CC!SGG	7	836; 1184; 1352; 3533; 3693; 4306; 5070
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNN!	3	2000; 2209; 5382
BdaI	!NNNNNNNNNTGANNNNNNTCA	3	1966; 2175; 5348
BfaI	C!TAG	9	592; 1678; 2177; 2378; 2796; 3352; 4367; 4701; 4954
BfiI	ACTGGGNNNN!	1	3478
BfiI	!NNNCCCAGT	2	289; 3230
BfmI	C!TRYAG	5	1486; 2066; 2864; 4991; 5182
BfoI	RGCGC!Y	7	598; 1292; 1678; 2796; 2804; 3532; 5207
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2958; 3748; 5249
BfuI	!NNNNNGGATAC	1	1659
BfuAI	ACCTGCNNNN!	3	1493; 3797; 4247
BfuAI	!NNNNNNNNCGAGGT	1	3416
BfuCI	!GATC	26	585; 1124; 1150; 1372; 1824; 2138; 2155; 2164; 2173; 2186; 3366; 3370; 3389; 3700; 3778; 3859; 3868; 3946; 4322; 4338; 4697; 4709; 4787; 4795; 4806; 4881
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1079; 3304
BglII	A!GATCT	1	1824

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BisI	GC!NGC	36	759; 810; 954; 1071; 1252; 1359; 1522; 1560; 2306; 2825; 2847; 2861; 3299; 3438; 3490; 3501; 3591; 3596; 3633; 3674; 3761; 3764; 3767; 4003; 4099; 4140; 4154; 4268; 4607; 4622; 4833; 5039; 5042; 5107; 5250; 5405
BlnI	C!CTAGG	2	3351; 4366
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	36	760; 811; 955; 1072; 1253; 1360; 1523; 1561; 2307; 2826; 2848; 2862; 3300; 3439; 3491; 3502; 3592; 3597; 3634; 3675; 3762; 3765; 3768; 4004; 4100; 4141; 4155; 4269; 4608; 4623; 4834; 5040; 5043; 5108; 5251; 5406
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	5	1200; 1395; 1437; 4045; 4490
Bme1390I	CC!NGG	26	90; 283; 787; 836; 931; 946; 1075; 1184; 1352; 1393; 1399; 1573; 1699; 3065; 3120; 3137; 3533; 3693; 3916; 4306; 4495; 4598; 5070; 5288; 5301; 5422
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	0	
BmgBI	CAC!GTC	1	1509
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	18	84; 277; 761; 1004; 1096; 1117; 1201; 1349; 1354; 1396; 1438; 1650; 2637; 4046; 4491; 4537; 4595; 4628
BmiI	GGN!NCC	22	467; 666; 726; 1117; 1320; 1404; 2008; 2132; 2166; 2684; 2705; 2717; 2908; 3069; 3141; 3530; 3565; 4413; 4492; 4537; 5380; 5419
BmrI	ACTGGGNNNNN!	1	3478
BmrI	!NNNNCCCAGT	2	289; 3230
BmrFI	CC!NGG	26	90; 283; 787; 836; 931; 946; 1075; 1184; 1352; 1393; 1399; 1573; 1699; 3065; 3120; 3137; 3533; 3693; 3916; 4306; 4495; 4598; 5070; 5288; 5301; 5422
BmsI	GCATCNNNNN!	7	848; 2345; 3108; 3180; 3828; 3892; 4167
BmsI	!NNNNNNNNNGATGC	9	357; 1001; 1169; 1781; 1833; 3487; 3742; 3958; 5350
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	3478
BmuI	!NNNNCCCAGT	2	289; 3230
BoxI	GACNN!NNGTC	1	1243
BpiI	GAAGACNN!	1	911
BpiI	!NNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3318; 4217
BpI	!NNNNNNNGAGNNNNNNCTC	2	3286; 4185
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	4369
BpmI	!NNNNNNNNNNNNNNNCTCCAG	3	928; 1455; 4312
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	4211
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	911
BpuAI	!NNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	1156; 4823; 5362
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	5	1159; 1396; 1417; 3905; 5064
BpuMI	CC!SGG	7	836; 1184; 1352; 3533; 3693; 4306; 5070
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	1132; 1231; 4518
Bsa29I	AT!CGAT	2	1371; 3369
BsaAI	YAC!GTR	4	340; 1813; 2645; 3833
BsaBI	GATNN!NNATC	2	2191; 3388
BsaHI	GR!CGYC	8	122; 175; 258; 444; 1187; 3529; 4231; 4310
BsaJI	C!CNNGG	22	360; 611; 698; 929; 1356; 1398; 1577; 1670; 3063; 3135; 3258; 3293; 3302; 3351; 3692; 3961; 4366; 4493; 4494; 4596; 4597; 5287
BsaMI	GAATGCN!	1	2280
BsaMI	G!CATTC	1	2373
BsaWI	W!CGGGW	7	600; 1321; 2170; 3560; 4404; 5094; 5241
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2609
BsaXI	!NNNNNNNGGAGNNNNNNNGT	1	1832
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	1862
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	2579

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	3	1400; 2530; 4437
Bsc4I	CCNNNNN!NNGG	25	49; 721; 1000; 1066; 1209; 1328; 1357; 1398; 1416; 1572; 2541; 2867; 3259; 3510; 4054; 4335; 4367; 4499; 4534; 4584; 4616; 4969; 5248; 5414; 5432
BscAI	GCATCNNNN!	7	847; 2344; 3107; 3179; 3827; 3891; 4166
BscAI	!NNNNNNGATGC	9	360; 1004; 1172; 1784; 1836; 3490; 3745; 3961; 5353
BseI	ACTGGN!	5	1214; 1287; 3473; 3674; 4920
BseI	C!CAGT	7	295; 1595; 1981; 2558; 3236; 5032; 5045
Bse8I	GATNN!NNATC	2	2191; 3388
Bse2II	CC!TNAGG	3	869; 3009; 4641
Bse118I	R!CCGGY	6	600; 1621; 2746; 3848; 4029; 4312
BseAI	T!CCGGA	1	1321
BseBI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1393; 1399; 1573; 1699; 3065; 3120; 3137; 3916; 4495; 4598; 5288; 5301; 5422
BseCI	AT!CGAT	2	1371; 3369
BseDI	C!CNNGG	22	360; 611; 698; 929; 1356; 1398; 1577; 1670; 3063; 3135; 3258; 3293; 3302; 3351; 3692; 3961; 4366; 4493; 4494; 4596; 4597; 5287
Bse3DI	GCAATGNN!	2	1632; 3762
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	2151; 3389; 3846; 3871; 4325
BseGI	!CATCC	5	694; 782; 839; 1406; 3215
BseJI	GATNN!NNATC	2	2191; 3388
BseLI	CCNNNNN!NNGG	25	49; 721; 1000; 1066; 1209; 1328; 1357; 1398; 1416; 1572; 2541; 2867; 3259; 3510; 4054; 4335; 4367; 4499; 4534; 4584; 4616; 4969; 5248; 5414; 5432
BseMI	GCAATGNN!	2	1632; 3762
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	3	1842; 2070; 4655
BseMII	!NNNNNNNNNCTGAG	8	860; 1529; 1993; 3000; 3302; 4183; 4755; 5164
BseNI	ACTGGN!	5	1214; 1287; 3473; 3674; 4920
BseNI	C!CAGT	7	295; 1595; 1981; 2558; 3236; 5032; 5045
BsePI	G!CGCGC	1	1387
BseRI	GAGGAGNNNNNNNNNN!	3	1328; 1963; 3347
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	6	667; 694; 727; 3475; 3568; 5137
BseXI	GCAGCNNNNNNNN!	9	821; 1263; 1533; 2317; 3602; 3644; 4165; 4618; 5118
BseXI	!NNNNNNNNNNNGCTGC	8	940; 1546; 2811; 3476; 3660; 3753; 4819; 5025
BseX3I	C!GGCCG	1	3435
BseYI	C!CCAGC	4	993; 3072; 3144; 5143
BseYI	G!CTGGG	3	1031; 1457; 4033
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1540
BsgI	!NNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	19	60; 1358; 1366; 1389; 1663; 2417; 2453; 2829; 2849; 2873; 2904; 3595; 3896; 4334; 4418; 4481; 4550; 4823; 5404
Bsh1285I	CGRY!CG	4	605; 1566; 3438; 5113
BshFI	GG!CC	32	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1350; 1355; 1453; 1576; 1651; 2495; 2637; 3292; 3298; 3307; 3350; 3437; 3611; 4002; 4029; 4538; 4595; 4628; 4973; 5407; 5425; 5436
BshNI	G!GYRCC	7	465; 664; 724; 2006; 2682; 3528; 3563
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	2	1371; 3369
BsiEI	CGRY!CG	4	605; 1566; 3438; 5113
BsiHKAI	GWGCW!C	4	694; 3642; 3832; 5137
BsiHKCI	C!YCGRG	0	
BsiSI	C!CGG	23	601; 835; 1184; 1322; 1351; 1622; 2171; 2747; 3434; 3511; 3533; 3561; 3692; 3782; 3849; 4030; 4305; 4313; 4405; 4879; 5069; 5095; 5242
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	25	49; 721; 1000; 1066; 1209; 1328; 1357; 1398; 1416; 1572; 2541; 2867; 3259; 3510; 4054; 4335; 4367; 4499; 4534; 4584; 4616; 4969; 5248; 5414; 5432
BsIFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 2123; 3680; 4212; 4321
BsIFI	!NNNNNNNNNNNNNGTCCC	5	1488; 3045; 3117; 3181; 4476
BsmI	GAATGCN!	1	2280

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BsmI	G!CATTC	1	2373
BsmAI	GTCTCN!	2	434; 1515
BsmAI	!NNNNNGAGAC	7	1042; 1132; 1231; 2953; 3371; 4390; 4518
BsmBI	CGTCTCN!	1	1515
BsmBI	!NNNNNGAGACG	1	1042
BsmFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 2123; 3680; 4212; 4321
BsmFI	!NNNNNNNNNNNNNGTCCC	5	1488; 3045; 3117; 3181; 4476
BsnI	GG!CC	32	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1350; 1355; 1453; 1576; 1651; 2495; 2637; 3292; 3298; 3307; 3350; 3437; 3611; 4002; 4029; 4538; 4595; 4628; 4973; 5407; 5425; 5436
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	1132; 1231; 4518
BsoBI	C!YCGRG	0	
Bsp13I	T!CCGGA	1	1321
Bsp19I	C!CATGG	5	360; 611; 1577; 3258; 3961
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4332
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	4753; 4931
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4785; 4963
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4300
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4211
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	26	585; 1124; 1150; 1372; 1824; 2138; 2155; 2164; 2173; 2186; 3366; 3370; 3389; 3700; 3778; 3859; 3868; 3946; 4322; 4338; 4697; 4709; 4787; 4795; 4806; 4881
Bsp1286I	GDGCH!C	12	667; 694; 727; 1405; 2720; 3475; 3568; 3642; 3832; 3894; 4604; 5137
Bsp1407I	T!GTACA	1	653
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1356; 1557; 1566; 2844; 2847; 2861; 2951; 3199; 3211; 3220; 3232; 3242; 3253; 3299; 3438; 3501; 4003; 4048; 4114; 4140; 4265; 4268; 4416; 4548; 4855; 4999; 5495
BspACI	G!CGG	31	370; 403; 528; 758; 1070; 1112; 1358; 1475; 1533; 1663; 2101; 2789; 2816; 2904; 3014; 3595; 3659; 3760; 3763; 4043; 4098; 4196; 4334; 4481; 4621; 4864; 5109; 5230; 5249; 5376; 5404
BspCNI	CTCAGNNNNNNNN!	3	1841; 2069; 4654
BspCNI	!NNNNNNCTGAG	8	861; 1530; 1994; 3001; 3303; 4184; 4756; 5165
BspDI	AT!CGAT	2	1371; 3369
BspD6I	GACTCNNNN!	5	418; 1506; 2602; 4208; 5085
BspD6I	!NNNNNGAGTC	3	883; 2565; 2997
BspEI	T!CCGGA	1	1321
BspFNI	CG!CG	19	60; 1358; 1366; 1389; 1663; 2417; 2453; 2829; 2849; 2873; 2904; 3595; 3896; 4334; 4418; 4481; 4550; 4823; 5404
BspHI	T!CATGA	2	2955; 4727
BspLI	GGN!NCC	22	467; 666; 726; 1117; 1320; 1404; 2008; 2132; 2166; 2684; 2705; 2717; 2908; 3069; 3141; 3530; 3565; 4413; 4492; 4537; 5380; 5419
BspMI	ACCTGCNNNN!	3	1493; 3797; 4247
BspMI	!NNNNNNNGCAGGT	1	3416
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	10	2163; 2172; 2181; 3397; 3708; 3954; 4346; 4705; 4803; 4889
BspPI	!NNNNNGATCC	8	580; 1145; 1367; 2159; 3773; 4317; 4704; 4801
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3873; 4083
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4211
BspT107I	G!GYRCC	7	465; 664; 724; 2006; 2682; 3528; 3563
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	1132; 1231; 4518
BsrI	ACTGGN!	5	1214; 1287; 3473; 3674; 4920
BsrI	C!CAGT	7	295; 1595; 1981; 2558; 3236; 5032; 5045
BsrBI	CCG!CTC	2	2953; 4142
BsrBI	GAG!CGG	2	2789; 4196
BsrDI	GCAATGNN!	2	1632; 3762

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	6	600; 1621; 2746; 3848; 4029; 4312
BsrGI	T!GTACA	1	653
BsrSI	ACTGGN!	5	1214; 1287; 3473; 3674; 4920
BsrSI	C!CAGT	7	295; 1595; 1981; 2558; 3236; 5032; 5045
BssAI	R!CCGGY	6	600; 1621; 2746; 3848; 4029; 4312
BssECI	C!CNNGG	22	360; 611; 698; 929; 1356; 1398; 1577; 1670; 3063; 3135; 3258; 3293; 3302; 3351; 3692; 3961; 4366; 4493; 4494; 4596; 4597; 5287
BssHII	G!CGCGC	1	1387
BssKI	!CCNGG	26	88; 281; 785; 834; 929; 944; 1073; 1182; 1350; 1391; 1397; 1571; 1697; 3063; 3118; 3135; 3531; 3691; 3914; 4304; 4493; 4596; 5068; 5286; 5299; 5420
BssMI	!GATC	26	585; 1124; 1150; 1372; 1824; 2138; 2155; 2164; 2173; 2186; 3366; 3370; 3389; 3700; 3778; 3859; 3868; 3946; 4322; 4338; 4697; 4709; 4787; 4795; 4806; 4881
BssNI	GR!CGYC	8	122; 175; 258; 444; 1187; 3529; 4231; 4310
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1255; 4247; 5274
BssSI	C!TCGTG	2	1105; 4121
BssTII	C!CWWGG	8	360; 611; 1577; 1670; 3258; 3351; 3961; 4366
Bst6I	CTCTTCN!	1	2046
Bst6I	!NNNNGAAGAG	3	2996; 3873; 4083
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 1187; 3529; 4231; 4310
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	3096; 3168; 4630
BstAUI	T!GTACA	1	653
BstBI	TT!CGAA	1	4211
Bst2BI	C!ACGAG	3	1255; 4247; 5274
Bst2BI	C!TCGTG	2	1105; 4121
BstBAI	YAC!GTR	4	340; 1813; 2645; 3833
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 669; 2049; 2620; 3909; 4025; 4133; 4456; 4947; 5417; 5488
BstC8I	GCN!NGC	34	86; 279; 593; 622; 712; 916; 1389; 1455; 1623; 2748; 2791; 2805; 3078; 3097; 3150; 3169; 3423; 3609; 3828; 3894; 3900; 3928; 3932; 3973; 3977; 4031; 4314; 4501; 4548; 4604; 4626; 4837; 5397; 5434
BstDEI	C!TNAG	13	869; 1538; 1645; 1828; 2002; 2056; 2159; 3009; 3311; 4192; 4641; 4764; 5173
BstDSI	C!CRYGG	6	360; 611; 1356; 1577; 3258; 3961
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	2	1396; 1414
BstF5I	GGATGNN!	5	2151; 3389; 3846; 3871; 4325
BstF5I	!CATCC	5	694; 782; 839; 1406; 3215
BstFNI	CG!CG	19	60; 1358; 1366; 1389; 1663; 2417; 2453; 2829; 2849; 2873; 2904; 3595; 3896; 4334; 4418; 4481; 4550; 4823; 5404
BstH2I	RGCGC!Y	7	598; 1292; 1678; 2796; 2804; 3532; 5207
BstHHI	GCG!C	27	597; 1084; 1291; 1389; 1391; 1621; 1677; 2795; 2803; 2829; 2851; 2860; 2873; 2904; 3523; 3531; 3595; 3632; 3898; 4158; 4334; 4420; 4823; 4932; 5106; 5206; 5273
BstKTI	GAT!C	26	588; 1127; 1153; 1375; 1827; 2141; 2158; 2167; 2176; 2189; 3369; 3373; 3392; 3703; 3781; 3862; 3871; 3949; 4325; 4341; 4700; 4712; 4790; 4798; 4809; 4884
BstMAI	GTCTCN!	2	434; 1515
BstMAI	!NNNNGAGAC	7	1042; 1132; 1231; 2953; 3371; 4390; 4518
BstMBI	!GATC	26	585; 1124; 1150; 1372; 1824; 2138; 2155; 2164; 2173; 2186; 3366; 3370; 3389; 3700; 3778; 3859; 3868; 3946; 4322; 4338; 4697; 4709; 4787; 4795; 4806; 4881
BstMCI	CGRY!CG	4	605; 1566; 3438; 5113
BstMWI	GCNNNNN!NNGC	29	90; 212; 244; 283; 376; 400; 648; 1079; 1530; 1565; 2756; 2786; 2813; 2855; 3096; 3168; 3219; 3298; 3520; 3604; 3627; 3766; 3889; 3972; 4239; 4426; 4630; 4829; 5401
BstNI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1393; 1399; 1573; 1699; 3065; 3120; 3137; 3916; 4495; 4598; 5288; 5301; 5422
BstNSI	RCATG!Y	6	642; 1088; 3099; 3171; 3934; 5451

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstOI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1393; 1399; 1573; 1699; 3065; 3120; 3137; 3916; 4495; 4598; 5288; 5301; 5422
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1243
BstSCI	!CCNGG	26	88; 281; 785; 834; 929; 944; 1073; 1182; 1350; 1391; 1397; 1571; 1697; 3063; 3118; 3135; 3531; 3691; 3914; 4304; 4493; 4596; 5068; 5286; 5299; 5420
BstSFI	C!TRYAG	5	1486; 2066; 2864; 4991; 5182
BstSLI	GKGCMLC	6	667; 694; 727; 3475; 3568; 5137
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 1358; 1366; 1389; 1663; 2417; 2453; 2829; 2849; 2873; 2904; 3595; 3896; 4334; 4418; 4481; 4550; 4823; 5404
Bst2UI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1393; 1399; 1573; 1699; 3065; 3120; 3137; 3916; 4495; 4598; 5288; 5301; 5422
BstV1I	GCAGCNNNNNNNN!	9	821; 1263; 1533; 2317; 3602; 3644; 4165; 4618; 5118
BstV1I	!NNNNNNNNNNNGCTGC	8	940; 1546; 2811; 3476; 3660; 3753; 4819; 5025
BstV2I	GAAGACNN!	1	911
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 1150; 1824; 2155; 2164; 2173; 3700; 3946; 4338; 4697; 4709; 4795; 4806
BstYI	R!GATCY	13	585; 1150; 1824; 2155; 2164; 2173; 3700; 3946; 4338; 4697; 4709; 4795; 4806
BstZI	C!GGCCG	1	3435
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2958; 3748; 5249
BsuI	!NNNNNGGATAC	1	1659
Bsu15I	AT!CGAT	2	1371; 3369
Bsu36I	CC!TNAGG	3	869; 3009; 4641
BsuRI	GG!CC	32	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1350; 1355; 1453; 1576; 1651; 2495; 2637; 3292; 3298; 3307; 3350; 3437; 3611; 4002; 4029; 4538; 4595; 4628; 4973; 5407; 5425; 5436
BsuTUI	AT!CGAT	2	1371; 3369
BtgI	C!CRYGG	6	360; 611; 1356; 1577; 3258; 3961
BtgZI	GCGATGNNNNNNNNNN!	2	2646; 3981
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 3800; 4144
BthCI	GCNG!C	36	761; 812; 956; 1073; 1254; 1361; 1524; 1562; 2308; 2827; 2849; 2863; 3301; 3440; 3492; 3503; 3593; 3598; 3635; 3676; 3763; 3766; 3769; 4005; 4101; 4142; 4156; 4270; 4609; 4624; 4835; 5041; 5044; 5109; 5252; 5407
BtrI	CAC!GTC	1	1509
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2368
BtsCI	GGATGNN!	5	2151; 3389; 3846; 3871; 4325
BtsCI	!CATCC	5	694; 782; 839; 1406; 3215
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	1493; 3797; 4247
BveI	!NNNNNNNNGCAGGT	1	3416
Cac8I	GCN!NGC	34	86; 279; 593; 622; 712; 916; 1389; 1455; 1623; 2748; 2791; 2805; 3078; 3097; 3150; 3169; 3423; 3609; 3828; 3894; 3900; 3928; 3932; 3973; 3977; 4031; 4314; 4501; 4548; 4604; 4626; 4837; 5397; 5434
CaiI	CAGNNN!CTG	2	4630; 5038
CciI	T!CATGA	2	2955; 4727
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	352; 3818; 3823; 4021; 4162
CdiI	C!GATG	4	1052; 1233; 2632; 3967
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	5401
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3190; 3232
CelII	GC!TNAGC	0	
CfoI	GCG!C	27	597; 1084; 1291; 1389; 1391; 1621; 1677; 2795; 2803; 2829; 2851; 2860; 2873; 2904; 3523; 3531; 3595; 3632; 3898; 4158; 4334; 4420; 4823; 4932; 5106; 5206; 5273
CfrI	Y!GGCCR	6	1268; 1574; 3435; 3609; 4000; 4027
Cfr9I	C!CCGGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cfr10I	R!CCGGY	6	600; 1621; 2746; 3848; 4029; 4312
Cfr13I	G!GNCC	18	83; 276; 760; 1003; 1095; 1116; 1200; 1348; 1353; 1395; 1437; 1649; 2636; 4045; 4490; 4536; 4594; 4627
Cfr42I	CCG!GG	1	1359
ChaI	GATC!	26	589; 1128; 1154; 1376; 1828; 2142; 2159; 2168; 2177; 2190; 3370; 3374; 3393; 3704; 3782; 3863; 3872; 3950; 4326; 4342; 4701; 4713; 4791; 4799; 4810; 4885
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	706; 3346; 4786; 4886; 4964
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 3013; 3108; 4300; 4850; 5405
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 3047; 3142; 4334; 4884; 5439
CjeI	!NNNNNNNNCCANNNNNNGT	5	672; 3312; 4752; 4852; 4930
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	2	4786; 4964
CjePI	!NNNNNNNNGANNNNNNNTGG	5	257; 1441; 1782; 4300; 4899
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	5	290; 1474; 1815; 4333; 4932
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	4753; 4931
Clal	AT!CGAT	2	1371; 3369
CpoI	CG!GWCCG	1	4045
CseI	GACGCNNNNN!	3	526; 4239; 4318
CseI	!NNNNNNNNNGCGTC	4	1176; 2862; 4757; 5335
CsiI	A!CCWGGT	1	3118
CspI	CG!GWCCG	1	4045
Csp6I	G!TAC	13	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1773; 2007; 2074; 3834
Csp45I	TT!CGAA	1	4211
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	656; 1247; 2809; 4418
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	27	301; 361; 612; 639; 645; 657; 735; 801; 881; 1085; 1092; 1377; 1494; 1578; 2956; 3096; 3168; 3259; 3400; 3745; 3931; 3962; 3988; 4344; 4728; 5448; 5499
CviJI	RG!CY	106	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; 1350; 1355; 1361; 1403; 1453; 1469; 1524; 1544; 1576; 1651; 1778; 1832; 1957; 2029; 2131; 2198; 2308; 2475; 2495; 2637; 2718; 2732; 2746; 3027; 3068; 3140; 3263; 3292; 3298; 3307; 3315; 3338; 3350; 3356; 3437; 3454; 3462; 3489; 3514; 3598; 3607; 3611; 3635; 3673; 3749; 3766; 3785; 3848; 3892; 3902; 3919; 4002; 4029; 4033; 4070; 4093; 4109; 4289; 4316; 4377; 4499; 4538; 4595; 4602; 4609; 4628; 4639; 4890; 4919; 4962; 4973; 5038; 5117; 5142; 5147; 5193; 5283; 5381; 5407; 5425; 5436
CviKI-1	RG!CY	106	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; 1350; 1355; 1361; 1403; 1453; 1469; 1524; 1544; 1576; 1651; 1778; 1832; 1957; 2029; 2131; 2198; 2308; 2475; 2495; 2637; 2718; 2732; 2746; 3027; 3068; 3140; 3263; 3292; 3298; 3307; 3315; 3338; 3350; 3356; 3437; 3454; 3462; 3489; 3514; 3598; 3607; 3611; 3635; 3673; 3749; 3766; 3785; 3848; 3892; 3902; 3919; 4002; 4029; 4033; 4070; 4093; 4109; 4289; 4316; 4377; 4499; 4538; 4595; 4602; 4609; 4628; 4639; 4890; 4919; 4962; 4973; 5038; 5117; 5142; 5147; 5193; 5283; 5381; 5407; 5425; 5436
CviQI	G!TAC	13	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1773; 2007; 2074; 3834
DdeI	C!TNAG	13	869; 1538; 1645; 1828; 2002; 2056; 2159; 3009; 3311; 4192; 4641; 4764; 5173
DinI	GGC!GCC	1	3530
DpnI	GA!TC	26	587; 1126; 1152; 1374; 1826; 2140; 2157; 2166; 2175; 2188; 3368; 3372; 3391; 3702; 3780; 3861; 3870; 3948; 4324; 4340; 4699; 4711; 4789; 4797; 4808; 4883
DpnII	!GATC	26	585; 1124; 1150; 1372; 1824; 2138; 2155; 2164; 2173; 2186; 3366; 3370; 3389; 3700; 3778; 3859; 3868; 3946; 4322; 4338; 4697; 4709; 4787; 4795; 4806; 4881
DraI	TTT!AAA	3	2231; 4673; 4692
DraII	RG!GNCCY	2	1437; 4627

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DraIII	CACNNN!GTG	2	1260; 2645
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	4	266; 851; 1460; 5009
DraRI	!NNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	3	2600; 3556; 5345
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2600; 3556; 5345
EaeI	Y!GGCCR	6	1268; 1574; 3435; 3609; 4000; 4027
EagI	C!GGCCG	1	3435
Eam1104I	CTCTCN!	1	2046
Eam1104I	!NNNNGAAGAG	3	2996; 3873; 4083
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	1	2046
EarI	!NNNNGAAGAG	3	2996; 3873; 4083
EciI	GGCGGANNNNNNNNNNNN!	4	3029; 4058; 5245; 5391
EciI	!NNNNNNNNNTCCGCC	4	496; 3200; 3221; 3242
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	1	3435
Eco24I	GRGCY!C	4	1405; 2720; 3894; 4604
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	3	1132; 1231; 4518
Eco32I	GAT!ATC	1	1635
Eco47I	G!GWCC	5	1200; 1395; 1437; 4045; 4490
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	3435
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	1120; 3675; 4107
Eco57I	!NNNNNNNNNNNNNCTTCAG	1	4905
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	869; 3009; 4641
Eco88I	C!YCGRG	0	
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	8	360; 611; 1577; 1670; 3258; 3351; 3961; 4366
Eco147I	AGG!CCT	3	1039; 1453; 3350
EcoHI	!CCSGG	7	834; 1182; 1350; 3531; 3691; 4304; 5068
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	4	1120; 3675; 4107; 4369
Eco57MI	!NNNNNNNNNNNNNCTYCAG	4	928; 1455; 4312; 4905
EcoNI	CCTNN!NNNAGG	2	1396; 1414
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	1437; 4627
EcoRI	G!AATTC	1	1757
EcoRII	!CCWGG	19	88; 281; 785; 929; 944; 1073; 1391; 1397; 1571; 1697; 3063; 3118; 3135; 3914; 4493; 4596; 5286; 5299; 5420
EcoRV	GAT!ATC	1	1635
EcoT14I	C!CWWGG	8	360; 611; 1577; 1670; 3258; 3351; 3961; 4366
EcoT22I	ATGCA!T	3	3101; 3173; 5504
EcoT38I	GRGCY!C	4	1405; 2720; 3894; 4604
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	1	3530
EheI	GGC!GCC	1	3530
ErhI	C!CWWGG	8	360; 611; 1577; 1670; 3258; 3351; 3961; 4366
EsaBC3I	TC!GA	19	753; 780; 1248; 1372; 1383; 1548; 1941; 2142; 2679; 3370; 3643; 3799; 3823; 3859; 4021; 4212; 4257; 4512; 5350
Esp3I	CGTCTCN!	1	1515
Esp3I	!NNNNGAGACG	1	1042
FaeI	CATG!	27	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1380; 1497; 1581; 2959; 3099; 3171; 3262; 3403; 3748; 3934; 3965; 3991; 4347; 4731; 5451; 5502

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FaiI	YA!TR	73	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; 1378; 1495; 1579; 1600; 1718; 1818; 1835; 1966; 2062; 2093; 2107; 2191; 2201; 2267; 2312; 2517; 2945; 2957; 3088; 3097; 3160; 3169; 3193; 3260; 3284; 3401; 3465; 3746; 3771; 3932; 3963; 3989; 4061; 4277; 4345; 4423; 4475; 4636; 4653; 4655; 4657; 4729; 5007; 5196; 5312; 5385; 5449; 5500
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	879; 3869
FalI	!NNNNNNNNAAGNNNNNCTT	2	847; 3837
FaqI	GGGACNNNNNNNNNN!	7	175; 326; 494; 2123; 3680; 4212; 4321
FaqI	!NNNNNNNNNNNNNGTCCC	5	1488; 3045; 3117; 3181; 4476
FatI	!CATG	27	300; 360; 611; 638; 644; 656; 734; 800; 880; 1084; 1091; 1376; 1493; 1577; 2955; 3095; 3167; 3258; 3399; 3744; 3930; 3961; 3987; 4343; 4727; 5447; 5498
FauI	CCCGCNNNN!	10	93; 119; 286; 1068; 1170; 2851; 3206; 3227; 4423; 4555
FauI	!NNNNNNNGCGGG	6	1105; 2782; 3652; 4189; 4327; 4474
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2186
FblI	GT!MKAC	1	1190
FmuI	GGNC!C	18	86; 279; 763; 1006; 1098; 1119; 1203; 1351; 1356; 1398; 1440; 1652; 2639; 4048; 4493; 4539; 4597; 4630
Fnu4HI	GC!NGC	36	759; 810; 954; 1071; 1252; 1359; 1522; 1560; 2306; 2825; 2847; 2861; 3299; 3438; 3490; 3501; 3591; 3596; 3633; 3674; 3761; 3764; 3767; 4003; 4099; 4140; 4154; 4268; 4607; 4622; 4833; 5039; 5042; 5107; 5250; 5405
FokI	GGATGNNNNNNNNNN!	5	2158; 3396; 3853; 3878; 4332
FokI	!NNNNNNNNNNNNNCATCC	5	681; 769; 826; 1393; 3202
FriOI	GRGCY!C	4	1405; 2720; 3894; 4604
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3631
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1678; 2177; 2378; 2796; 3352; 4367; 4701; 4954
FspEI	CCNNNNNNNNNNNN!	183	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; 1364; 1389; 1405; 1419; 1453; 1467; 1485; 1518; 1542; 1566; 1585; 1603; 1617; 1635; 1665; 1683; 1706; 1775; 1808; 1834; 1872; 1977; 1994; 2023; 2043; 2090; 2147; 2181; 2212; 2251; 2265; 2406; 2501; 2525; 2548; 2571; 2589; 2611; 2632; 2651; 2670; 2699; 2720; 2734; 2760; 2848; 2874; 2923; 2964; 2982; 3021; 3037; 3075; 3132; 3147; 3204; 3224; 3238; 3255; 3269; 3306; 3321; 3364; 3447; 3514; 3545; 3565; 3580; 3625; 3639; 3705; 3719; 3738; 3754; 3795; 3815; 3862; 3912; 3928; 3948; 3973; 3993; 4016; 4043; 4061; 4087; 4127; 4153; 4177; 4233; 4247; 4275; 4318; 4339; 4374; 4418; 4506; 4530; 4552; 4572; 4588; 4609; 4623; 4642; 4726; 4746; 4774; 4789; 4823; 4865; 4892; 4907; 4952; 4976; 4990; 5012; 5038; 5058; 5082; 5108; 5156; 5175; 5194; 5220; 5255; 5300; 5330; 5344; 5395; 5409; 5434; 5450; 5471; 5500
FspEI	!NNNNNNNNNNNNNNNGG	154	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; 1325; 1343; 1369; 1402; 1420; 1443; 1480; 1501; 1525; 1558; 1607; 1632; 1657; 1684; 1717; 1739; 1784; 1823; 1856; 1877; 1933; 1989; 2032; 2086; 2113; 2138; 2156; 2200; 2300; 2369; 2477; 2526; 2548; 2576; 2612; 2657; 2686; 2722; 2741; 2769; 2789; 2852; 2875; 2983; 3015; 3033; 3062; 3105; 3134; 3245; 3274; 3317; 3338; 3366; 3399; 3419; 3444; 3471; 3496; 3518; 3546; 3572; 3593; 3644; 3665; 3683; 3731; 3767; 3823; 3848; 3872; 3901; 3924; 3948; 3974; 3996; 4015; 4040; 4080; 4116; 4181; 4266; 4290; 4319; 4353; 4374; 4394; 4439; 4466; 4485; 4518; 4570; 4601; 4628; 4680; 4778; 4849; 4894; 4955; 5020; 5054; 5080; 5098; 5134; 5204; 5227; 5249; 5273; 5306; 5354; 5389; 5407; 5464
Fsp4HI	GC!NGC	36	759; 810; 954; 1071; 1252; 1359; 1522; 1560; 2306; 2825; 2847; 2861; 3299; 3438; 3490; 3501; 3591; 3596; 3633; 3674; 3761; 3764; 3767; 4003; 4099; 4140; 4154; 4268; 4607; 4622; 4833; 5039; 5042; 5107; 5250; 5405
GdiII	C!GGCCR	1	3435

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GdiII	Y!GGCCG	3	3435; 4000; 4027
GlaI	GC!GC	27	596; 1083; 1290; 1388; 1390; 1620; 1676; 2794; 2802; 2828; 2850; 2859; 2872; 2903; 3522; 3530; 3594; 3631; 3897; 4157; 4333; 4419; 4822; 4931; 5105; 5205; 5272
Glul	GC!NGC	36	759; 810; 954; 1071; 1252; 1359; 1522; 1560; 2306; 2825; 2847; 2861; 3299; 3438; 3490; 3501; 3591; 3596; 3633; 3674; 3761; 3764; 3767; 4003; 4099; 4140; 4154; 4268; 4607; 4622; 4833; 5039; 5042; 5107; 5250; 5405
GsaI	CCCAG!C	4	997; 3076; 3148; 5147
GsaI	GCTGG!G	3	1035; 1461; 4037
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	4369
GsuI	!NNNNNNNNNNNNNNNNCTCCAG	3	928; 1455; 4312
HaeI	WGG!CCW	9	1039; 1270; 1453; 1576; 3350; 3611; 4973; 5425; 5436
HaeII	RGCGC!Y	7	598; 1292; 1678; 2796; 2804; 3532; 5207
HaeIII	GG!CC	32	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1350; 1355; 1453; 1576; 1651; 2495; 2637; 3292; 3298; 3307; 3350; 3437; 3611; 4002; 4029; 4538; 4595; 4628; 4973; 5407; 5425; 5436
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2204; 3725
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2170; 3691
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2203; 3724
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2172; 3693
HapII	C!CGG	23	601; 835; 1184; 1322; 1351; 1622; 2171; 2747; 3434; 3511; 3533; 3561; 3692; 3782; 3849; 4030; 4305; 4313; 4405; 4879; 5069; 5095; 5242
HgaI	GACGCNNNNN!	3	526; 4239; 4318
HgaI	!NNNNNNNNNNNGCGTC	4	1176; 2862; 4757; 5335
HhaI	GCG!C	27	597; 1084; 1291; 1389; 1391; 1621; 1677; 2795; 2803; 2829; 2851; 2860; 2873; 2904; 3523; 3531; 3595; 3632; 3898; 4158; 4334; 4420; 4823; 4932; 5106; 5206; 5273
HinI	GR!CGYC	8	122; 175; 258; 444; 1187; 3529; 4231; 4310
Hin1II	CATG!	27	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1380; 1497; 1581; 2959; 3099; 3171; 3262; 3403; 3748; 3934; 3965; 3991; 4347; 4731; 5451; 5502
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1485; 2203; 3724
Hin4I	!NNNNNNNNGABNNNNNRTC	3	2171; 3692; 3722
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	2203; 3724; 3754
Hin4I	!NNNNNNNNNGAYNNNNNVTC	3	1453; 2171; 3692
Hin6I	G!CGC	27	595; 1082; 1289; 1387; 1389; 1619; 1675; 2793; 2801; 2827; 2849; 2858; 2871; 2902; 3521; 3529; 3593; 3630; 3896; 4156; 4332; 4418; 4821; 4930; 5104; 5204; 5271
HinP1I	G!CGC	27	595; 1082; 1289; 1387; 1389; 1619; 1675; 2793; 2801; 2827; 2849; 2858; 2871; 2902; 3521; 3529; 3593; 3630; 3896; 4156; 4332; 4418; 4821; 4930; 5104; 5204; 5271
HincII	GTY!RAC	1	2292
HindII	GTY!RAC	1	2292
HindIII	A!AGCTT	0	
Hinfl	G!ANTC	15	410; 740; 890; 1217; 1498; 2572; 2594; 3004; 4014; 4148; 4200; 4258; 4295; 5077; 5473
HpaI	GTT!AAC	1	2292
HpaII	C!CGG	23	601; 835; 1184; 1322; 1351; 1622; 2171; 2747; 3434; 3511; 3533; 3561; 3692; 3782; 3849; 4030; 4305; 4313; 4405; 4879; 5069; 5095; 5242
HphI	GGTGANNNNNNNN!	8	376; 627; 996; 1306; 1813; 2061; 4600; 4716
HphI	!NNNNNNNTCACC	5	885; 1518; 1584; 2646; 3707
Hpy8I	GTN!NAC	15	201; 539; 577; 672; 692; 987; 1191; 1200; 1482; 1587; 2292; 2576; 2593; 2648; 5135
Hpy99I	CGWCG!	10	754; 1234; 1249; 3619; 3647; 3941; 3956; 4233; 4618; 5351
Hpy166II	GTN!NAC	15	201; 539; 577; 672; 692; 987; 1191; 1200; 1482; 1587; 2292; 2576; 2593; 2648; 5135
Hpy188I	TCN!GA	14	585; 699; 1539; 1713; 2703; 3312; 3496; 3840; 4193; 4294; 4773; 4907; 5260; 5338
Hpy188III	TC!NNGA	24	1176; 1322; 1413; 1762; 2177; 2956; 3008; 3321; 3374; 3547; 3863; 3872; 3955; 4011; 4055; 4145; 4178; 4247; 4728; 4802; 4885; 4983; 5081; 5215
HpyAV	CCTTCNNNNNN!	7	780; 828; 873; 1805; 4174; 4281; 4960
HpyAV	!NNNNNGAAGG	12	700; 1072; 1321; 1410; 2146; 2762; 3657; 4386; 4402; 4585; 4902; 5212

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 669; 2049; 2620; 3909; 4025; 4133; 4456; 4947; 5417; 5488
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 1508; 1812; 2589; 2601; 2644; 2754; 3645; 3832; 4613; 4746
HpyCH4V	TG!CA	26	692; 1014; 1130; 1488; 1521; 1810; 1864; 1888; 1999; 2068; 2278; 2305; 2373; 3090; 3099; 3162; 3171; 3286; 3362; 3421; 3580; 3755; 3769; 4839; 5135; 5502
HpyF3I	C!TNAG	13	869; 1538; 1645; 1828; 2002; 2056; 2159; 3009; 3311; 4192; 4641; 4764; 5173
HpyF10VI	GCNNNNN!NNGC	29	90; 212; 244; 283; 376; 400; 648; 1079; 1530; 1565; 2756; 2786; 2813; 2855; 3096; 3168; 3219; 3298; 3520; 3604; 3627; 3766; 3889; 3972; 4239; 4426; 4630; 4829; 5401
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 1187; 3529; 4231; 4310
Hsp92II	CATG!	27	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1380; 1497; 1581; 2959; 3099; 3171; 3262; 3403; 3748; 3934; 3965; 3991; 4347; 4731; 5451; 5502
HspAI	G!CGC	27	595; 1082; 1289; 1387; 1389; 1619; 1675; 2793; 2801; 2827; 2849; 2858; 2871; 2902; 3521; 3529; 3593; 3630; 3896; 4156; 4332; 4418; 4821; 4930; 5104; 5204; 5271
KasI	G!GCGCC	1	3528
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	2010
Kpn2I	T!CCGGA	1	1321
KspI	CCGC!GG	1	1359
Ksp22I	T!GATCA	1	2186
KspAI	GTT!AAC	1	2292
Kzo9I	!GATC	26	585; 1124; 1150; 1372; 1824; 2138; 2155; 2164; 2173; 2186; 3366; 3370; 3389; 3700; 3778; 3859; 3868; 3946; 4322; 4338; 4697; 4709; 4787; 4795; 4806; 4881
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	3873; 4083
LpnI	RGC!GCGY	7	596; 1290; 1676; 2794; 2802; 3530; 5205
LpnPI	CCDGNNNNNNNNNN!	74	102; 295; 614; 742; 799; 848; 881; 943; 958; 1007; 1087; 1111; 1135; 1197; 1284; 1335; 1364; 1405; 1467; 1485; 1543; 1585; 1608; 1635; 1711; 1775; 1872; 1994; 2023; 2184; 2266; 2571; 2760; 2983; 3021; 3037; 3077; 3132; 3149; 3249; 3334; 3447; 3524; 3546; 3569; 3705; 3719; 3738; 3795; 3862; 3912; 3928; 3985; 4043; 4252; 4318; 4342; 4418; 4507; 4610; 4643; 4874; 4892; 5038; 5058; 5082; 5108; 5157; 5255; 5300; 5330; 5409; 5434; 5471
LpnPI	!NNNNNNNNNNNNNCHGG	63	75; 268; 552; 586; 772; 820; 916; 1017; 1060; 1169; 1195; 1268; 1307; 1336; 1378; 1443; 1558; 1607; 1684; 1753; 1784; 2156; 2612; 2732; 2789; 2852; 3050; 3062; 3122; 3134; 3366; 3411; 3454; 3496; 3518; 3546; 3593; 3655; 3677; 3767; 3834; 3857; 3901; 3996; 4015; 4040; 4189; 4290; 4333; 4390; 4480; 4583; 4610; 4628; 4864; 4901; 5054; 5080; 5220; 5238; 5273; 5354; 5407
Lsp1109I	GCAGNNNNNNNN!	9	821; 1263; 1533; 2317; 3602; 3644; 4165; 4618; 5118
Lsp1109I	!NNNNNNNNNNNGCTGC	8	940; 1546; 2811; 3476; 3660; 3753; 4819; 5025
LweI	GCATCNNNNN!	7	848; 2345; 3108; 3180; 3828; 3892; 4167
LweI	!NNNNNNNNNGATGC	9	357; 1001; 1169; 1781; 1833; 3487; 3742; 3958; 5350
MabI	A!CCWGGT	1	3118
MaeI	C!TAG	9	592; 1678; 2177; 2378; 2796; 3352; 4367; 4701; 4954
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 1508; 1812; 2589; 2601; 2644; 2754; 3645; 3832; 4613; 4746
MaeIII	!GTNAC	17	61; 148; 497; 891; 1087; 1922; 1959; 2049; 2317; 2818; 2830; 3649; 3955; 4645; 4911; 5027; 5090
MalI	GA!TC	26	587; 1126; 1152; 1374; 1826; 2140; 2157; 2166; 2175; 2188; 3368; 3372; 3391; 3702; 3780; 3861; 3870; 3948; 4324; 4340; 4699; 4711; 4789; 4797; 4808; 4883
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2953; 4142
MbiI	GAG!CGG	2	2789; 4196
MboI	!GATC	26	585; 1124; 1150; 1372; 1824; 2138; 2155; 2164; 2173; 2186; 3366; 3370; 3389; 3700; 3778; 3859; 3868; 3946; 4322; 4338; 4697; 4709; 4787; 4795; 4806; 4881
MboII	GAAGANNNNNNN!	10	916; 1029; 1642; 1666; 2161; 2785; 3013; 3890; 4100; 4719

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MboII	!NNNNNNNTCTTC	5	2033; 4180; 4347; 4547; 4790
McaTI	GCGC!GC	1	1390
MfeI	C!AATTG	1	2279
MflI	R!GATCY	13	585; 1150; 1824; 2155; 2164; 2173; 3700; 3946; 4338; 4697; 4709; 4795; 4806
MhlI	GDGCH!C	12	667; 694; 727; 1405; 2720; 3475; 3568; 3642; 3832; 3894; 4604; 5137
MlsI	TGG!CCA	3	1270; 1576; 3611
MluI	A!CGCGT	2	1364; 2415
MluNI	TGG!CCA	3	1270; 1576; 3611
MlyI	GAGTCNNNNN!	3	899; 2581; 3013
MlyI	!NNNNNGACTC	5	404; 1492; 2588; 4194; 5071
Mly113I	GG!CGCC	1	3529
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	2622
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	3	1403; 5054; 5238
MnlI	CCTCNNNNNNN!	16	773; 842; 952; 967; 1050; 1183; 1420; 1450; 1600; 2248; 3312; 4130; 4336; 4650; 5020; 5344
MnlI	!NNNNNGAGG	31	541; 654; 693; 714; 747; 864; 973; 1029; 1218; 1251; 1294; 1306; 1377; 1419; 1443; 1533; 1941; 1997; 2136; 2208; 2673; 3004; 3282; 3325; 3340; 3380; 3444; 3580; 3937; 4367; 5270
Mph1103I	ATGCA!T	3	3101; 3173; 5504
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1321
MroNI	G!CCGGC	4	1621; 2746; 4029; 4312
MroXI	GAANN!NNTTC	1	1982
MscI	TGG!CCA	3	1270; 1576; 3611
MseI	T!TAA	19	7; 629; 854; 1916; 2116; 2230; 2291; 2412; 2433; 2444; 2456; 2467; 2484; 2582; 2853; 4672; 4686; 4691; 4743
MslI	CAYNN!NNRTG	8	365; 613; 643; 1582; 1597; 1815; 1969; 3966
MspI	C!CGG	23	601; 835; 1184; 1322; 1351; 1622; 2171; 2747; 3434; 3511; 3533; 3561; 3692; 3782; 3849; 4030; 4305; 4313; 4405; 4879; 5069; 5095; 5242
Msp20I	TGG!CCA	3	1270; 1576; 3611
MspA1I	CMG!CKG	9	1063; 1358; 1475; 1559; 1778; 3027; 3635; 4864; 5109
MspCI	C!TTAAG	0	
MspJI	CNNRNNNNNNNNN!	280	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; 1345; 1351; 1364; 1377; 1395; 1410; 1423; 1444; 1461; 1484; 1497; 1512; 1537; 1550; 1565; 1579; 1596; 1616; 1634; 1657; 1674; 1690; 1705; 1724; 1765; 1780; 1811; 1825; 1840; 1871; 1884; 1901; 1937; 1977; 1993; 2014; 2036; 2068; 2081; 2114; 2127; 2146; 2171; 2184; 2197; 2212; 2236; 2253; 2266; 2307; 2321; 2334; 2352; 2390; 2405; 2423; 2464; 2488; 2508; 2526; 2547; 2570; 2602; 2617; 2639; 2657; 2670; 2691; 2708; 2721; 2734; 2750; 2763; 2793; 2808; 2833; 2851; 2864; 2879; 2903; 2917; 2941; 2966; 2982; 3020; 3036; 3075; 3089; 3103; 3131; 3147; 3161; 3175; 3204; 3217; 3238; 3247; 3269; 3299; 3315; 3333; 3363; 3386; 3410; 3434; 3453; 3481; 3507; 3523; 3536; 3559; 3573; 3593; 3606; 3620; 3639; 3653; 3666; 3682; 3697; 3710; 3726; 3741; 3757; 3782; 3801; 3817; 3830; 3843; 3861; 3875; 3889; 3905; 3927; 3943; 3962; 3984; 4000; 4023; 4042; 4056; 4072; 4086; 4106; 4122; 4135; 4157; 4190; 4204; 4224; 4237; 4251; 4305; 4318; 4341; 4354; 4373; 4390; 4417; 4453; 4486; 4505; 4530; 4551; 4578; 4591; 4608; 4622; 4637; 4653; 4713; 4738; 4754; 4776; 4789; 4803; 4834; 4848; 4873; 4891; 4906; 4919; 4938; 4951; 4966; 4995; 5014; 5032; 5057; 5072; 5091; 5107; 5126; 5144; 5160; 5174; 5193; 5220; 5243; 5265; 5284; 5299; 5312; 5329; 5349; 5376; 5389; 5408; 5433; 5456; 5470; 5483; 5500

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	229	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; 1325; 1343; 1363; 1384; 1409; 1435; 1452; 1471; 1493; 1516; 1547; 1564; 1581; 1604; 1632; 1657; 1684; 1703; 1724; 1748; 1766; 1784; 1803; 1824; 1845; 1871; 1917; 1967; 1989; 2043; 2066; 2086; 2113; 2146; 2163; 2181; 2210; 2239; 2281; 2364; 2402; 2426; 2449; 2478; 2522; 2544; 2576; 2612; 2629; 2650; 2687; 2707; 2724; 2741; 2776; 2794; 2812; 2829; 2853; 2875; 2902; 2930; 2956; 2994; 3015; 3032; 3050; 3073; 3094; 3122; 3145; 3166; 3184; 3205; 3222; 3245; 3269; 3289; 3307; 3329; 3360; 3382; 3408; 3427; 3444; 3472; 3491; 3510; 3528; 3546; 3567; 3589; 3613; 3646; 3666; 3684; 3705; 3731; 3758; 3775; 3792; 3809; 3835; 3857; 3879; 3897; 3917; 3936; 3958; 3996; 4016; 4040; 4060; 4080; 4107; 4131; 4164; 4183; 4211; 4233; 4262; 4290; 4315; 4334; 4353; 4374; 4391; 4408; 4439; 4466; 4486; 4509; 4529; 4566; 4583; 4602; 4628; 4648; 4687; 4714; 4733; 4751; 4788; 4806; 4847; 4865; 4891; 4908; 4940; 4969; 4997; 5018; 5041; 5060; 5081; 5099; 5116; 5134; 5160; 5181; 5201; 5221; 5239; 5260; 5286; 5303; 5322; 5341; 5370; 5389; 5407; 5426; 5444; 5462; 5485
MspR9I	CC!NGG	26	90; 283; 787; 836; 931; 946; 1075; 1184; 1352; 1393; 1399; 1573; 1699; 3065; 3120; 3137; 3533; 3693; 3916; 4306; 4495; 4598; 5070; 5288; 5301; 5422
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2279
MvaI	CC!WGG	19	90; 283; 787; 931; 946; 1075; 1393; 1399; 1573; 1699; 3065; 3120; 3137; 3916; 4495; 4598; 5288; 5301; 5422
Mva1269I	GAATGCN!	1	2280
Mva1269I	G!CATTC	1	2373
MvnI	CG!CG	19	60; 1358; 1366; 1389; 1663; 2417; 2453; 2829; 2849; 2873; 2904; 3595; 3896; 4334; 4418; 4481; 4550; 4823; 5404
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	29	90; 212; 244; 283; 376; 400; 648; 1079; 1530; 1565; 2756; 2786; 2813; 2855; 3096; 3168; 3219; 3298; 3520; 3604; 3627; 3766; 3889; 3972; 4239; 4426; 4630; 4829; 5401
NaeI	GCC!GGC	4	1623; 2748; 4031; 4314
NarI	GG!CGCC	1	3529
NciI	CC!SGG	7	836; 1184; 1352; 3533; 3693; 4306; 5070
NcoI	C!CATGG	5	360; 611; 1577; 3258; 3961
NdeI	CA!TATG	1	234
NdeII	!GATC	26	585; 1124; 1150; 1372; 1824; 2138; 2155; 2164; 2173; 2186; 3366; 3370; 3389; 3700; 3778; 3859; 3868; 3946; 4322; 4338; 4697; 4709; 4787; 4795; 4806; 4881
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	731
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	767
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	1621; 2746; 4029; 4312
NheI	G!CTAGC	1	591
NlaIII	CATG!	27	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1380; 1497; 1581; 2959; 3099; 3171; 3262; 3403; 3748; 3934; 3965; 3991; 4347; 4731; 5451; 5502
NlaIV	GGN!NCC	22	467; 666; 726; 1117; 1320; 1404; 2008; 2132; 2166; 2684; 2705; 2717; 2908; 3069; 3141; 3530; 3565; 4413; 4492; 4537; 5380; 5419
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2361; 2676; 4268
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 991; 1277; 5340
Nli3877I	CYCGR!G	0	
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1846; 3318; 3754
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1007; 3283
NmeDI	RCCGGYNNNNNN!	6	612; 1633; 2758; 3860; 4041; 4324
NmeDI	!NNNNNNNNNNNNRCCGGY	6	587; 1608; 2733; 3835; 4016; 4299
NmuCI	!GTSAC	7	891; 1087; 1922; 2049; 2818; 3649; 3955
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3631

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NsiI	ATGCA!T	3	3101; 3173; 5504
NspI	RCATG!Y	6	642; 1088; 3099; 3171; 3934; 5451
NspV	TT!CGAA	1	4211
OliI	CACNN!NNGTG	1	613
PabI	GTA!C	13	220; 245; 300; 333; 384; 541; 656; 806; 1058; 1775; 2009; 2076; 3836
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3099; 3171; 3934
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	2	2955; 4727
PalAI	GG!CGCGCC	1	1387
PasI	CC!CWGGG	2	4494; 4597
PauI	G!CGCGC	1	1387
PceI	AGG!CCT	3	1039; 1453; 3350
PciI	A!CATGT	1	5447
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3873; 4083
PcsI	WCGNNNN!NNNCGW	8	1253; 1818; 3823; 3900; 4143; 4217; 4610; 5128
PctI	GAATGCN!	1	2280
PctI	G!CATTC	1	2373
PdiI	GCC!GGC	4	1623; 2748; 4031; 4314
PdmI	GAANN!NNTTC	1	1982
PfeI	G!AWTC	7	740; 1217; 4014; 4148; 4258; 4295; 5473
Pfl23II	C!GTACG	0	
PfI FI	GACN!NNGTC	1	3647
PfI MI	CCANNNN!NTGG	1	1209
PfoI	T!CCNGGA	2	944; 4304
PhoI	GG!CC	32	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1350; 1355; 1453; 1576; 1651; 2495; 2637; 3292; 3298; 3307; 3350; 3437; 3611; 4002; 4029; 4538; 4595; 4628; 4973; 5407; 5425; 5436
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	1	3910
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	3475; 3730
PleI	GAGTCNNNN!	3	898; 2580; 3012
PleI	!NNNNNGACTC	5	404; 1492; 2588; 4194; 5071
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2611
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	4741
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	1	4773
PpiI	!NNNNNNNGAACNNNNNCTC	1	2579
PpsI	GAGTCNNNN!	3	898; 2580; 3012
PpsI	!NNNNNGACTC	5	404; 1492; 2588; 4194; 5071
Ppu10I	A!TGCAT	3	3097; 3169; 5500
Ppu21I	YAC!GTR	4	340; 1813; 2645; 3833
PpuMI	RG!GWCCY	1	1437
PscI	A!CATGT	1	5447
PshAI	GACNN!NNGTC	1	1243
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2312; 2517
Psp03I	GGWC!C	5	1203; 1398; 1440; 4048; 4493
Psp5II	RG!GWCCY	1	1437
Psp6I	!CCWGG	19	88; 281; 785; 929; 944; 1073; 1391; 1397; 1571; 1697; 3063; 3118; 3135; 3914; 4493; 4596; 5286; 5299; 5420
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	19	88; 281; 785; 929; 944; 1073; 1391; 1397; 1571; 1697; 3063; 3118; 3135; 3914; 4493; 4596; 5286; 5299; 5420
PspLI	C!GTACG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspN4I	GGN!NCC	22	467; 666; 726; 1117; 1320; 1404; 2008; 2132; 2166; 2684; 2705; 2717; 2908; 3069; 3141; 3530; 3565; 4413; 4492; 4537; 5380; 5419
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 3259; 4258
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	1	3661
PspPI	G!GNCC	18	83; 276; 760; 1003; 1095; 1116; 1200; 1348; 1353; 1395; 1437; 1649; 2636; 4045; 4490; 4536; 4594; 4627
PspPPI	RG!GWCCY	1	1437
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	3082; 3154; 4660
PspPRI	!NNNNNNNNNNNNNNNCTGRGG	5	855; 1524; 1988; 2995; 4190
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	1440; 4630
PstI	CTGCA!G	2	1490; 2070
PstNI	CAGNNN!CTG	2	4630; 5038
PsuI	R!GATCY	13	585; 1150; 1824; 2155; 2164; 2173; 3700; 3946; 4338; 4697; 4709; 4795; 4806
PsyI	GACN!NNGTC	1	3647
PteI	G!CGCGC	1	1387
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1778; 3027; 3635
RcaI	T!CATGA	2	2955; 4727
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4044
RceI	!NNNNNNNNNNNNNNNNNGTCCGATG	0	
RgaI	GCGAT!CGC	0	
RglI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNNNN!	1	2258
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	13	219; 244; 299; 332; 383; 540; 655; 805; 1057; 1774; 2008; 2075; 3835
RsaNI	G!TAC	13	218; 243; 298; 331; 382; 539; 654; 804; 1056; 1773; 2007; 2074; 3834
RseI	CAYNN!NNRTG	8	365; 613; 643; 1582; 1597; 1815; 1969; 3966
RsrII	CG!GWCCG	1	4045
Rsr2I	CG!GWCCG	1	4045
SacI	GAGCT!C	0	
SacII	CCGC!GG	1	1359
SalI	G!TCGAC	0	
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	3873; 4083
SaqAI	T!TAA	19	7; 629; 854; 1916; 2116; 2230; 2291; 2412; 2433; 2444; 2456; 2467; 2484; 2582; 2853; 4672; 4686; 4691; 4743
SatI	GC!NGC	36	759; 810; 954; 1071; 1252; 1359; 1522; 1560; 2306; 2825; 2847; 2861; 3299; 3438; 3490; 3501; 3591; 3596; 3633; 3674; 3761; 3764; 3767; 4003; 4099; 4140; 4154; 4268; 4607; 4622; 4833; 5039; 5042; 5107; 5250; 5405
Sau96I	G!GNCC	18	83; 276; 760; 1003; 1095; 1116; 1200; 1348; 1353; 1395; 1437; 1649; 2636; 4045; 4490; 4536; 4594; 4627
Sau3AI	!GATC	26	585; 1124; 1150; 1372; 1824; 2138; 2155; 2164; 2173; 2186; 3366; 3370; 3389; 3700; 3778; 3859; 3868; 3946; 4322; 4338; 4697; 4709; 4787; 4795; 4806; 4881
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	899; 2581; 3013
SchI	!NNNNNGACTC	5	404; 1492; 2588; 4194; 5071
SciI	CTC!GAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
ScrFI	CC!NGG	26	90; 283; 787; 836; 931; 946; 1075; 1184; 1352; 1393; 1399; 1573; 1699; 3065; 3120; 3137; 3533; 3693; 3916; 4306; 4495; 4598; 5070; 5288; 5301; 5422
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	7	1041; 1725; 1794; 3107; 3179; 3348; 5290
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	1776; 3684; 4169
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	12	667; 694; 727; 1405; 2720; 3475; 3568; 3642; 3832; 3894; 4604; 5137
SelI	!CGCG	19	58; 1356; 1364; 1387; 1661; 2415; 2451; 2827; 2847; 2871; 2902; 3593; 3894; 4332; 4416; 4479; 4548; 4821; 5402
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; 1421; 1442; 1471; 1487; 1511; 1526; 1555; 1574; 1592; 1672; 1780; 1815; 1959; 2008; 2012; 2219; 2240; 2249; 2261; 2310; 2477; 2592; 2604; 2647; 2684; 2734; 2757; 2881; 3029; 3124; 3317; 3430; 3558; 3637; 3648; 3720; 3791; 3835; 4095; 4241; 4285; 4616; 4647; 4706; 4749; 4892; 4913; 5012; 5149; 5164; 5183; 5195; 5239; 5285; 5336
SexAI	A!CCWGGT	1	3118
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	848; 2345; 3108; 3180; 3828; 3892; 4167
SfaNI	!NNNNNNNNNGATGC	9	357; 1001; 1169; 1781; 1833; 3487; 3742; 3958; 5350
SfcI	C!TRYAG	5	1486; 2066; 2864; 4991; 5182
SfiI	GGCCNNNN!NGGCC	1	3304
SfoI	GGC!GCC	1	3530
Sfr274I	C!TCGAG	0	
Sfr303I	CCGC!GG	1	1359
SfuI	TT!CGAA	1	4211
SgeI	CNNGNNNNNNNN!	218	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; 1345; 1351; 1364; 1377; 1395; 1410; 1425; 1446; 1461; 1484; 1497; 1512; 1542; 1584; 1607; 1634; 1674; 1690; 1710; 1765; 1780; 1811; 1834; 1871; 1901; 1943; 1993; 2022; 2092; 2139; 2154; 2183; 2236; 2265; 2307; 2390; 2428; 2464; 2548; 2570; 2602; 2639; 2657; 2676; 2691; 2733; 2750; 2767; 2802; 2816; 2833; 2855; 2879; 2903; 2968; 2982; 3020; 3036; 3076; 3089; 3108; 3131; 3148; 3161; 3180; 3210; 3231; 3248; 3271; 3306; 3333; 3364; 3386; 3412; 3434; 3453; 3481; 3517; 3536; 3559; 3573; 3593; 3606; 3620; 3639; 3653; 3672; 3704; 3718; 3731; 3757; 3788; 3801; 3818; 3835; 3849; 3866; 3884; 3899; 3927; 3943; 3962; 3984; 4000; 4023; 4042; 4067; 4086; 4106; 4133; 4157; 4190; 4209; 4237; 4251; 4317; 4341; 4356; 4379; 4400; 4417; 4465; 4492; 4506; 4535; 4559; 4592; 4609; 4629; 4642; 4655; 4713; 4740; 4759; 4789; 4814; 4834; 4848; 4873; 4891; 4928; 4966; 4995; 5023; 5037; 5057; 5072; 5093; 5107; 5126; 5144; 5160; 5200; 5220; 5247; 5265; 5286; 5299; 5312; 5329; 5353; 5376; 5408; 5433; 5460; 5482

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	188	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; 1325; 1343; 1363; 1384; 1420; 1440; 1458; 1480; 1516; 1558; 1581; 1608; 1648; 1684; 1739; 1785; 1808; 1845; 1875; 1917; 1967; 1996; 2066; 2113; 2157; 2210; 2239; 2281; 2364; 2402; 2438; 2522; 2544; 2576; 2613; 2631; 2650; 2707; 2724; 2741; 2776; 2794; 2814; 2834; 2853; 2877; 2942; 2994; 3050; 3082; 3105; 3122; 3154; 3184; 3205; 3222; 3245; 3280; 3307; 3338; 3360; 3386; 3408; 3427; 3455; 3491; 3510; 3533; 3554; 3572; 3589; 3613; 3646; 3678; 3705; 3731; 3762; 3792; 3809; 3835; 3858; 3879; 3901; 3921; 3941; 3958; 3997; 4016; 4041; 4060; 4080; 4107; 4131; 4164; 4183; 4211; 4233; 4291; 4315; 4334; 4353; 4374; 4391; 4439; 4466; 4486; 4509; 4533; 4566; 4583; 4603; 4629; 4687; 4714; 4733; 4763; 4788; 4808; 4847; 4865; 4902; 4940; 4969; 4997; 5018; 5046; 5067; 5100; 5118; 5174; 5194; 5221; 5239; 5260; 5286; 5303; 5327; 5350; 5382; 5407; 5434; 5456; 5485
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	1359
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	1	1387
SimI	GG!GTC	4	27; 2676; 4463; 5256
SimI	!GACCC	4	106; 3957; 4525; 4773
SinI	G!GWCC	5	1200; 1395; 1437; 4045; 4490
SlaI	C!TCGAG	0	
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	8	365; 613; 643; 1582; 1597; 1815; 1969; 3966
SmlI	C!TYRAG	8	1135; 1174; 1411; 1432; 3920; 4802; 5079; 5341
SmoI	C!TYRAG	8	1135; 1174; 1411; 1432; 3920; 4802; 5079; 5341
SmuI	CCCGCNNNN!	10	93; 119; 286; 1068; 1170; 2851; 3206; 3227; 4423; 4555
SmuI	!NNNNNNGCGGG	6	1105; 2782; 3652; 4189; 4327; 4474
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3099; 3171; 3934
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	16	18; 1757; 1804; 1853; 1879; 1918; 2096; 2279; 2343; 2421; 2447; 2458; 3105; 3177; 3269; 4687
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	1	1437
SseBI	AGG!CCT	3	1039; 1453; 3350
SsiI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1356; 1557; 1566; 2844; 2847; 2861; 2951; 3199; 3211; 3220; 3232; 3242; 3253; 3299; 3438; 3501; 4003; 4048; 4114; 4140; 4265; 4268; 4416; 4548; 4855; 4999; 5495
SsiI	G!CGG	31	370; 403; 528; 758; 1070; 1112; 1358; 1475; 1533; 1663; 2101; 2789; 2816; 2904; 3014; 3595; 3659; 3760; 3763; 4043; 4098; 4196; 4334; 4481; 4621; 4864; 5109; 5230; 5249; 5376; 5404
SspI	AAT!ATT	2	2437; 2990
SspDI	G!GCGCC	1	3528
SspD5I	GGTGANNNNNNNN!	8	376; 627; 996; 1306; 1813; 2061; 4600; 4716
SspD5I	!NNNNNNNNNTCACC	5	884; 1517; 1583; 2645; 3706
SstI	GAGCT!C	0	
SstII	CCGC!GG	1	1359
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	1	929
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	19	92; 118; 285; 851; 1067; 1169; 1190; 2728; 2850; 3205; 3226; 3539; 3942; 4081; 4152; 4422; 4554; 4784; 5222
Sth132I	!NNNNNNNNNCGGG	22	15; 407; 470; 827; 900; 1104; 1343; 2729; 2781; 2882; 3609; 3651; 3684; 4188; 4297; 4326; 4473; 4577; 4608; 5061; 5105; 5313
Sth302II	CC!GG	23	602; 836; 1185; 1323; 1352; 1623; 2172; 2748; 3435; 3512; 3534; 3562; 3693; 3783; 3850; 4031; 4306; 4314; 4406; 4880; 5070; 5096; 5243
StrI	C!TCGAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StsI	GGATGNNNNNNNNNN!	5	2159; 3397; 3854; 3879; 4333
StsI	!NNNNNNNNNNNNNNCATCC	5	680; 768; 825; 1392; 3201
StuI	AGG!CCT	3	1039; 1453; 3350
StyI	C!CWWGG	8	360; 611; 1577; 1670; 3258; 3351; 3961; 4366
StyD4I	!CCNGG	26	88; 281; 785; 834; 929; 944; 1073; 1182; 1350; 1391; 1397; 1571; 1697; 3063; 3118; 3135; 3531; 3691; 3914; 4304; 4493; 4596; 5068; 5286; 5299; 5420
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 669; 2049; 2620; 3909; 4025; 4133; 4456; 4947; 5417; 5488
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 971; 1199; 1247; 1511; 1815; 2592; 2604; 2647; 2757; 3648; 3835; 4616; 4749
TaqI	T!CGA	19	752; 779; 1247; 1371; 1382; 1547; 1940; 2141; 2678; 3369; 3642; 3798; 3822; 3858; 4020; 4211; 4256; 4511; 5349
TaqII	GACCGANNNNNNNNNN!	3	2549; 3566; 4234
TaqII	!NNNNNNNNNTCGGTC	1	4478
TaqII	CACCCANNNNNNNNNN!	1	742
TaqII	!NNNNNNNNNTGGGTG	3	172; 3433; 4025
TasI	!AATT	16	18; 1757; 1804; 1853; 1879; 1918; 2096; 2279; 2343; 2421; 2447; 2458; 3105; 3177; 3269; 4687
TatI	W!GTACW	6	217; 297; 330; 381; 653; 1772
TauI	GCSG!C	18	761; 1073; 1361; 2849; 2863; 3301; 3440; 3503; 3598; 3763; 3766; 4005; 4101; 4142; 4270; 4624; 5252; 5407
TfiI	G!AWTC	7	740; 1217; 4014; 4148; 4258; 4295; 5473
TliI	C!TCGAG	0	
Tru1I	T!TAA	19	7; 629; 854; 1916; 2116; 2230; 2291; 2412; 2433; 2444; 2456; 2467; 2484; 2582; 2853; 4672; 4686; 4691; 4743
Tru9I	T!TAA	19	7; 629; 854; 1916; 2116; 2230; 2291; 2412; 2433; 2444; 2456; 2467; 2484; 2582; 2853; 4672; 4686; 4691; 4743
TscAI	CASTGNN!	6	2006; 2375; 3658; 4768; 5039; 5052
TseI	G!CWGC	18	809; 953; 1251; 1521; 1559; 2305; 2824; 3489; 3590; 3632; 3673; 3766; 4153; 4606; 4832; 5038; 5041; 5106
TsoI	TARCCANNNNNNNNNN!	2	2501; 2848
TsoI	!NNNNNNNNNTGGYTA	3	778; 2306; 4058
Tsp45I	!GTSAC	7	891; 1087; 1922; 2049; 2818; 3649; 3955
Tsp509I	!AATT	16	18; 1757; 1804; 1853; 1879; 1918; 2096; 2279; 2343; 2421; 2447; 2458; 3105; 3177; 3269; 4687
TspDTI	ATGAANNNNNNNNNN!	8	661; 1643; 1733; 1987; 2162; 2287; 3588; 4292
TspDTI	!NNNNNNNNNTTCAT	6	26; 789; 810; 4006; 4462; 4669
TspEI	!AATT	16	18; 1757; 1804; 1853; 1879; 1918; 2096; 2279; 2343; 2421; 2447; 2458; 3105; 3177; 3269; 4687
TspGWI	ACGGANNNNNNNNNN!	2	1886; 4404
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	6	2006; 2375; 3658; 4768; 5039; 5052
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3647
Tth111II	CAARCANNNNNNNNNN!	2	841; 4856
Tth111III	!NNNNNNNNNTGYTTG	3	3964; 4824; 4863
UnbI	!GGNCC	18	82; 275; 759; 1002; 1094; 1115; 1199; 1347; 1352; 1394; 1436; 1648; 2635; 4044; 4489; 4535; 4593; 4626
Van9II	CCANNNN!NTGG	1	1209
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	690; 5133
VpaK11AI	!GGWCC	5	1199; 1394; 1436; 4044; 4489
VpaK11BI	G!GWCC	5	1200; 1395; 1437; 4045; 4490
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	2	1396; 1414
XapI	R!AATTY	6	1757; 1804; 1879; 2343; 2447; 2458
XbaI	T!CTAGA	1	2176
XceI	RCATG!Y	6	642; 1088; 3099; 3171; 3934; 5451
XcmI	CCANNNN!NNNTGG	0	
XhoI	C!TCGAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XhoII	R!GATCY	13	585; 1150; 1824; 2155; 2164; 2173; 3700; 3946; 4338; 4697; 4709; 4795; 4806
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3351; 4366
XmiI	GT!MKAC	1	1190
XmnI	GAANN!NNTTC	1	1982
XspI	C!TAG	9	592; 1678; 2177; 2378; 2796; 3352; 4367; 4701; 4954
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3101; 3173; 5504