

pFusionRed-MAP4 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2720; 2925
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	4	1905; 3008; 3964; 5753
AatI	AGG!CCT	3	1039; 1638; 3758
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1190
AccII	CG!CG	15	60; 2825; 2861; 3237; 3257; 3281; 3312; 4003; 4304; 4742; 4826; 4889; 4958; 5231; 5812
AccIII	T!CCGGA	1	1321
Acc16I	TGC!GCA	1	4039
Acc36I	ACCTGCNNNN!	5	1479; 1659; 1887; 4205; 4655
Acc36I	!NNNNNNNNGCAGGT	1	3824
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	6	465; 664; 724; 3090; 3936; 3971
AccB7I	CCANNNN!NTGG	1	1209
AccBSI	CCG!CTC	3	2042; 3361; 4550
AccBSI	GAG!CGG	2	3197; 4604
AceIII	CAGCTCNNNNNNN!	2	1541; 2893
AceIII	!NNNNNNNNNNNGAGCTG	2	552; 610
AciI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1343; 1408; 2040; 2115; 2311; 3252; 3255; 3269; 3359; 3607; 3619; 3628; 3640; 3650; 3661; 3707; 3846; 3909; 4411; 4456; 4522; 4548; 4673; 4676; 4824; 4956; 5263; 5407; 5903
AciI	G!CGG	27	370; 403; 528; 758; 1070; 1112; 1704; 3197; 3224; 3312; 3422; 4003; 4067; 4168; 4171; 4451; 4506; 4604; 4742; 4889; 5029; 5272; 5517; 5638; 5657; 5784; 5812
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	10	1356; 2580; 2589; 3805; 4116; 4362; 4754; 5113; 5211; 5297
AclWI	!NNNNNGATCC	8	580; 1145; 1343; 2567; 4181; 4725; 5112; 5209
AcoI	Y!GGCCR	7	1268; 1457; 2120; 3843; 4017; 4408; 4435
AcsI	R!AATY	3	2751; 2855; 2866
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	4	1120; 2167; 4083; 4515
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	5313
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	8	122; 175; 258; 444; 1187; 3937; 4639; 4718
AdeI	CACNNN!GTG	2	1260; 3053
AfaI	GT!AC	10	219; 244; 299; 332; 383; 540; 655; 805; 1057; 4243
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	30	49; 721; 1000; 1066; 1209; 1547; 1703; 1996; 2203; 2214; 2249; 2317; 2410; 2468; 2503; 2949; 3275; 3667; 3918; 4462; 4743; 4775; 4907; 4942; 4992; 5024; 5377; 5656; 5822; 5840
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	2	2823; 5855
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	13	687; 1484; 1554; 1775; 2365; 2521; 2535; 2541; 3348; 3392; 3402; 3815; 5391
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	1662
AjnI	!CCWGG	22	88; 281; 785; 929; 944; 1073; 1633; 1746; 2104; 2117; 2196; 2403; 2496; 3471; 3526; 3543; 4322; 4901; 5004; 5694; 5707; 5828
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	

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AjuI	CCAANNNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AlcI	CACNN!NNGTG	1	613
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	3511; 3583
AlfI	!NNNNNNNNNGGCANNNNNNTGC	2	3477; 3549
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	3019
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	1	2987
AluI	AG!CT	26	566; 624; 651; 797; 1104; 1531; 1594; 1687; 1831; 1918; 2093; 2239; 2248; 2351; 2479; 2716; 2883; 3140; 3435; 3723; 4043; 4501; 5298; 5555; 5601; 5691
AluBI	AG!CT	26	566; 624; 651; 797; 1104; 1531; 1594; 1687; 1831; 1918; 2093; 2239; 2248; 2351; 2479; 2716; 2883; 3140; 3435; 3723; 4043; 4501; 5298; 5555; 5601; 5691
AlwI	GGATCNNNN!	10	1356; 2580; 2589; 3805; 4116; 4362; 4754; 5113; 5211; 5297
AlwI	!NNNNNGATCC	8	580; 1145; 1343; 2567; 4181; 4725; 5112; 5209
Alw21I	GWGCW!C	5	694; 2304; 4050; 4240; 5545
Alw26I	GTCTCN!	2	434; 2460
Alw26I	!NNNNNGAGAC	8	1042; 1132; 1231; 1652; 3361; 3779; 4798; 4926
Alw44I	G!TGCAC	3	690; 2300; 5541
AlwNI	CAGNNN!CTG	2	5038; 5446
Ama87I	C!YCGRG	1	2012
Aor13HI	T!CCGGA	1	1321
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	4	1373; 3505; 3577; 5039
ApaLI	G!TGCAC	3	690; 2300; 5541
ApeKI	G!CWGC	23	809; 953; 1251; 1372; 1594; 1615; 1618; 1984; 2236; 2281; 2713; 3232; 3897; 3998; 4040; 4081; 4174; 4561; 5014; 5240; 5446; 5449; 5514
ApoI	R!AATY	3	2751; 2855; 2866
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4452
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4246; 4899; 5737
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	4336
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	785
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	4	1338; 2226; 2529; 3765
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	2	2075; 2438
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	4507
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	24	586; 1125; 1151; 1331; 1349; 2573; 2582; 2595; 3775; 3779; 3798; 4109; 4187; 4268; 4277; 4355; 4731; 4747; 5106; 5118; 5196; 5204; 5215; 5290
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4055
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3759; 4774
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	23	597; 1084; 1291; 3203; 3211; 3237; 3259; 3268; 3281; 3312; 3931; 3939; 4003; 4040; 4306; 4566; 4742; 4828; 5231; 5340; 5514; 5614; 5681
AspS9I	G!GNCC	19	83; 276; 760; 1003; 1095; 1116; 1200; 1706; 1750; 1810; 2210; 2471; 2550; 3044; 4453; 4898; 4944; 5002; 5035
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	4619
AsuC2I	CC!SGG	8	836; 1184; 1353; 2209; 3941; 4101; 4714; 5478
AsuHPI	GGTGANNNNNNN!	7	376; 627; 996; 1306; 2121; 5008; 5124
AsuHPI	!NNNNNNNTCACC	3	885; 3054; 4115

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AsuNI	G!CTAGC	1	591
AvaI	C!YCGRG	1	2012
AvaII	G!GWCC	7	1200; 1706; 1750; 1810; 2471; 4453; 4898
AviII	TGC!GCA	1	4039
AvrII	C!CTAGG	2	3759; 4774
AxyI	CC!TNAGG	4	869; 1578; 3417; 5049
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	7	667; 694; 727; 2304; 3883; 3976; 5545
BalI	TGG!CCA	4	1270; 1459; 2122; 4019
BamHI	G!GATCC	2	1348; 2572
BanI	G!GYRCC	6	465; 664; 724; 3090; 3936; 3971
BanII	GRGCY!C	4	2055; 3128; 4302; 5012
BanIII	AT!CGAT	1	3777
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	1847
BarI	!NNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	1815
BasI	CCANNN!NTGG	1	1209
BauI	C!ACGAG	3	1255; 4655; 5682
BauI	C!TCGTG	2	1105; 4529
BbeI	GGCG!C	1	3940
Bbr7I	GAAGACNNNNNN!	1	916
Bbr7I	!NNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	911
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	3507; 3579; 4342
BbvI	GCAGCNNNNNNNN!	11	821; 1263; 1996; 2248; 2293; 2725; 4010; 4052; 4573; 5026; 5526
BbvI	!NNNNNNNNNNGCTGC	10	940; 1359; 1581; 1602; 3219; 3884; 4068; 4161; 5227; 5433
Bbv12I	GWGCW!C	5	694; 2304; 4050; 4240; 5545
BbvCI	CC!TCAGC	1	1914
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	1722; 3067; 3631; 4157; 4659
BccI	!NNNNNGATGG	4	1291; 3035; 3815; 4243
BceAI	ACGGCNNNNNNNNNN!	6	822; 966; 1017; 1083; 4363; 4850
BceAI	!NNNNNNNNNNGCCGT	3	3078; 3896; 5355
Bcefl	ACGGCNNNNNNNNNN!	6	822; 966; 1017; 1083; 4363; 4850
Bcefl	!NNNNNNNNNNGCCGT	3	3079; 3897; 5356
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNGCANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	4	2346; 3366; 4156; 5657
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2594
BcnI	CC!SGG	8	836; 1184; 1353; 2209; 3941; 4101; 4714; 5478
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	2617; 5790
BdaI	!NNNNNNNNNNTGANNNNNNTCA	2	2583; 5756
BfaI	C!TAG	10	592; 2036; 2090; 2585; 2786; 3204; 3760; 4775; 5109; 5362
BfiI	ACTGGGNNNNN!	2	1988; 3886
BfiI	!NNNNCCCAGT	2	289; 3638
BfmI	C!TRYAG	6	1376; 2174; 2352; 3272; 5399; 5590
BfoI	RGCG!Y	6	598; 1292; 3204; 3212; 3940; 5615
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	4	2346; 3366; 4156; 5657
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	5	1479; 1659; 1887; 4205; 4655
BfuAI	!NNNNNNNNGCAGGT	1	3824

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BfuCI	!GATC	24	585; 1124; 1150; 1330; 1348; 2572; 2581; 2594; 3774; 3778; 3797; 4108; 4186; 4267; 4276; 4354; 4730; 4746; 5105; 5117; 5195; 5203; 5214; 5289
BglI	GCCNNNN!NGGC	6	90; 212; 283; 1079; 1848; 3712
BglII	A!GATCT	1	1330
BisI	GC!NGC	42	759; 810; 954; 1071; 1252; 1373; 1595; 1616; 1619; 1985; 2040; 2115; 2237; 2282; 2714; 3233; 3255; 3269; 3707; 3846; 3898; 3909; 3999; 4004; 4041; 4082; 4169; 4172; 4175; 4411; 4507; 4548; 4562; 4676; 5015; 5030; 5241; 5447; 5450; 5515; 5658; 5813
BlnI	C!CTAGG	2	3759; 4774
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	42	760; 811; 955; 1072; 1253; 1374; 1596; 1617; 1620; 1986; 2041; 2116; 2238; 2283; 2715; 3234; 3256; 3270; 3708; 3847; 3899; 3910; 4000; 4005; 4042; 4083; 4170; 4173; 4176; 4412; 4508; 4549; 4563; 4677; 5016; 5031; 5242; 5448; 5451; 5516; 5659; 5814
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	7	1200; 1706; 1750; 1810; 2471; 4453; 4898
Bme1390I	CC!NGG	30	90; 283; 787; 836; 931; 946; 1075; 1184; 1353; 1635; 1748; 2106; 2119; 2198; 2209; 2405; 2498; 3473; 3528; 3545; 3941; 4101; 4324; 4714; 4903; 5006; 5478; 5696; 5709; 5830
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	1	2012
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	1662
BmgT120I	GG!NCC	19	84; 277; 761; 1004; 1096; 1117; 1201; 1707; 1751; 1811; 2211; 2472; 2551; 3045; 4454; 4899; 4945; 5003; 5036
BmiI	GGN!NCC	24	467; 666; 726; 1117; 1320; 1341; 1350; 1421; 2289; 2472; 2574; 3092; 3113; 3125; 3316; 3477; 3549; 3938; 3973; 4821; 4900; 4945; 5788; 5827
BmrI	ACTGGGNNNNN!	2	1988; 3886
BmrI	!NNNNCCCAGT	2	289; 3638
BmrFI	CC!NGG	30	90; 283; 787; 836; 931; 946; 1075; 1184; 1353; 1635; 1748; 2106; 2119; 2198; 2209; 2405; 2498; 3473; 3528; 3545; 3941; 4101; 4324; 4714; 4903; 5006; 5478; 5696; 5709; 5830
BmsI	GCATCNNNNN!	8	848; 1868; 2753; 3516; 3588; 4236; 4300; 4575
BmsI	!NNNNNNNNNGATGC	7	357; 1001; 1169; 3895; 4150; 4366; 5758
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1988; 3886
BmuI	!NNNNCCCAGT	2	289; 3638
BoxI	GACNN!NNGTC	2	1243; 1925
BpiI	GAAGACNN!	1	911
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3726; 4625
BpI	!NNNNNNNNGAGNNNNNCTC	2	3694; 4593
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	2219; 4777
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	928; 4720
Bpu10I	CC!TNAGC	2	1520; 1914
Bpu10I	GC!TNAGG	1	1688
Bpu14I	TT!CGAA	1	4619
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	911
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	4	1156; 1944; 5231; 5770
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	1159; 4313; 5472
BpuMI	CC!SGG	8	836; 1184; 1353; 2209; 3941; 4101; 4714; 5478
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	1	2460
BsaI	!NNNNNGAGACC	3	1132; 1231; 4926
Bsa29I	AT!CGAT	1	3777
BsaAI	YAC!GTR	3	340; 3053; 4241
BsaBI	GATNN!NNATC	3	2571; 2599; 3796
BsaHI	GR!CGYC	8	122; 175; 258; 444; 1187; 3937; 4639; 4718
BsaJI	C!CNNGG	25	360; 611; 698; 929; 2104; 2105; 2162; 2213; 2381; 2403; 2450; 3471; 3543; 3666; 3701; 3710; 3759; 4100; 4369; 4774; 4901; 4902; 5004; 5005; 5695

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BsaMI	GAATGCN!	1	2688
BsaMI	G!CATTC	1	2781
BsaWI	W!CCGGW	7	600; 1321; 2578; 3968; 4812; 5502; 5649
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	3017
BsaXI	!NNNNNNGGAGNNNNNGT	1	2495
BsaXI	GGAGNNNNGTNNNNNNNNNN!	1	2525
BsaXI	!NNNNNNNNACNNNNNCTCC	1	2987
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	2938; 4845
Bsc4I	CCNNNNN!NNGG	30	49; 721; 1000; 1066; 1209; 1547; 1703; 1996; 2203; 2214; 2249; 2317; 2410; 2468; 2503; 2949; 3275; 3667; 3918; 4462; 4743; 4775; 4907; 4942; 4992; 5024; 5377; 5656; 5822; 5840
BscAI	GCATCNNNN!	8	847; 1867; 2752; 3515; 3587; 4235; 4299; 4574
BscAI	!NNNNNNGATGC	7	360; 1004; 1172; 3898; 4153; 4369; 5761
BseI	ACTGGN!	8	1214; 1287; 1392; 1812; 1983; 3881; 4082; 5328
BseI	C!CAGT	6	295; 1949; 2966; 3644; 5440; 5453
Bse8I	GATN!NNATC	3	2571; 2599; 3796
Bse21I	CC!TNAGG	4	869; 1578; 3417; 5049
Bse118I	R!CCGGY	6	600; 2284; 3154; 4256; 4437; 4720
BseAI	T!CCGGA	1	1321
BseBI	CC!WGG	22	90; 283; 787; 931; 946; 1075; 1635; 1748; 2106; 2119; 2198; 2405; 2498; 3473; 3528; 3545; 4324; 4903; 5006; 5696; 5709; 5830
BseCI	AT!CGAT	1	3777
BseDI	C!CNGGG	25	360; 611; 698; 929; 2104; 2105; 2162; 2213; 2381; 2403; 2450; 3471; 3543; 3666; 3701; 3710; 3759; 4100; 4369; 4774; 4901; 4902; 5004; 5005; 5695
Bse3DI	GCAATGNN!	2	2421; 4170
Bse3DI	!CATTGC	1	2291
BseGI	GGATGNN!	7	1901; 2006; 2413; 3797; 4254; 4279; 4733
BseGI	!CATCC	5	694; 782; 839; 1714; 3623
BseJI	GATN!NNATC	3	2571; 2599; 3796
BseLI	CCNNNNN!NNGG	30	49; 721; 1000; 1066; 1209; 1547; 1703; 1996; 2203; 2214; 2249; 2317; 2410; 2468; 2503; 2949; 3275; 3667; 3918; 4462; 4743; 4775; 4907; 4942; 4992; 5024; 5377; 5656; 5822; 5840
BseMI	GCAATGNN!	2	2421; 4170
BseMI	!CATTGC	1	2291
BseMII	CTCAGNNNNNNNNNN!	4	1341; 1592; 1928; 5063
BseMII	!NNNNNNNCTGAG	7	860; 1859; 3408; 3710; 4591; 5163; 5572
BseNI	ACTGGN!	8	1214; 1287; 1392; 1812; 1983; 3881; 4082; 5328
BseNI	C!CAGT	6	295; 1949; 2966; 3644; 5440; 5453
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	4	1328; 2216; 2519; 3755
BseRI	!NNNNNNNCTCCTC	2	2085; 2448
BseSI	GKGCMI!C	7	667; 694; 727; 2304; 3883; 3976; 5545
BseXI	GCAGCNNNNNNNN!	11	821; 1263; 1996; 2248; 2293; 2725; 4010; 4052; 4573; 5026; 5526
BseXI	!NNNNNNNNNNNGCTGC	10	940; 1359; 1581; 1602; 3219; 3884; 4068; 4161; 5227; 5433
BseX3I	C!GGCCG	1	3843
BseYI	C!CCAGC	6	993; 1734; 1992; 3480; 3552; 5551
BseYI	G!CTGGG	4	1031; 2248; 2317; 4441
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	1	2015
Bsh1236I	CG!CG	15	60; 2825; 2861; 3237; 3257; 3281; 3312; 4003; 4304; 4742; 4826; 4889; 4958; 5231; 5812
Bsh1285I	CGRY!CG	3	605; 3846; 5521
BshFI	GG!CC	34	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1459; 1638; 1851; 2122; 2207; 2212; 2551; 2903; 3045; 3700; 3706; 3715; 3758; 3845; 4019; 4410; 4437; 4946; 5003; 5036; 5381; 5815; 5833; 5844
BshNI	G!GYRCC	6	465; 664; 724; 3090; 3936; 3971
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	3777
BsiEI	CGRY!CG	3	605; 3846; 5521
BsiHKAI	GWGCW!C	5	694; 2304; 4050; 4240; 5545
BsiHKCI	C!YCGRG	1	2012

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BsiSI	C!CGG	24	601; 835; 1184; 1322; 1353; 2208; 2285; 2579; 3155; 3842; 3919; 3941; 3969; 4100; 4190; 4257; 4438; 4713; 4721; 4813; 5287; 5477; 5503; 5650
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	30	49; 721; 1000; 1066; 1209; 1547; 1703; 1996; 2203; 2214; 2249; 2317; 2410; 2468; 2503; 2949; 3275; 3667; 3918; 4462; 4743; 4775; 4907; 4942; 4992; 5024; 5377; 5656; 5822; 5840
BsIF1	GGGACNNNNNNNNNN!	6	175; 326; 494; 4088; 4620; 4729
BsIF1	!NNNNNNNNNNNNNGTCCC	5	2386; 3453; 3525; 3589; 4884
BsmI	GAATGCN!	1	2688
BsmI	G!CATTC	1	2781
BsmAI	GTCTCN!	2	434; 2460
BsmAI	!NNNNNGAGAC	8	1042; 1132; 1231; 1652; 3361; 3779; 4798; 4926
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	2	1042; 1652
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4088; 4620; 4729
BsmFI	!NNNNNNNNNNNNNGTCCC	5	2386; 3453; 3525; 3589; 4884
BsnI	GG!CC	34	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1459; 1638; 1851; 2122; 2207; 2212; 2551; 2903; 3045; 3700; 3706; 3715; 3758; 3845; 4019; 4410; 4437; 4946; 5003; 5036; 5381; 5815; 5833; 5844
Bso31I	GGTCTCN!	1	2460
Bso31I	!NNNNNGAGACC	3	1132; 1231; 4926
BsoBI	C!YCGRG	1	2012
Bsp13I	T!CCGGA	1	1321
Bsp19I	C!CATGG	4	360; 611; 3666; 4369
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4740
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	5161; 5339
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	5193; 5371
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 4708
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4619
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	24	585; 1124; 1150; 1330; 1348; 2572; 2581; 2594; 3774; 3778; 3797; 4108; 4186; 4267; 4276; 4354; 4730; 4746; 5105; 5117; 5195; 5203; 5214; 5289
Bsp1286I	GDGCH!C	13	667; 694; 727; 2055; 2304; 3128; 3883; 3976; 4050; 4240; 4302; 5012; 5545
Bsp1407I	T!GTACA	1	653
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1343; 1408; 2040; 2115; 2311; 3252; 3255; 3269; 3359; 3607; 3619; 3628; 3640; 3650; 3661; 3707; 3846; 3909; 4411; 4456; 4522; 4548; 4673; 4676; 4824; 4956; 5263; 5407; 5903
BspACI	G!CGG	27	370; 403; 528; 758; 1070; 1112; 1704; 3197; 3224; 3312; 3422; 4003; 4067; 4168; 4171; 4451; 4506; 4604; 4742; 4889; 5029; 5272; 5517; 5638; 5657; 5784; 5812
BspCNI	CTCAGNNNNNNNN!	4	1340; 1591; 1927; 5062
BspCNI	!NNNNNNNCTGAG	7	861; 1860; 3409; 3711; 4592; 5164; 5573
BspDI	AT!CGAT	1	3777
BspD6I	GACTCNNNN!	5	418; 1333; 3010; 4616; 5493
BspD6I	!NNNNNGAGTC	5	883; 1919; 2008; 2973; 3405
BspEI	T!CCGGA	1	1321
BspFNI	CG!CG	15	60; 2825; 2861; 3237; 3257; 3281; 3312; 4003; 4304; 4742; 4826; 4889; 4958; 5231; 5812
BspHI	T!CATGA	2	3363; 5135
BspLI	GGN!NCC	24	467; 666; 726; 1117; 1320; 1341; 1350; 1421; 2289; 2472; 2574; 3092; 3113; 3125; 3316; 3477; 3549; 3938; 3973; 4821; 4900; 4945; 5788; 5827
BspMI	ACCTGCNNNN!	5	1479; 1659; 1887; 4205; 4655
BspMI	!NNNNNNNGCAGGT	1	3824
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	10	1356; 2580; 2589; 3805; 4116; 4362; 4754; 5113; 5211; 5297
BspPI	!NNNNNGATCC	8	580; 1145; 1343; 2567; 4181; 4725; 5112; 5209
BspQI	GCTCTCN!	1	2049
BspQI	!NNNNGAAGAGC	2	4281; 4491
BspTI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspT104I	TT!CGAA	1	4619
BspT107I	G!GYRCC	6	465; 664; 724; 3090; 3936; 3971
BspTNI	GGTCTCN!	1	2460
BspTNI	!NNNNNGAGACC	3	1132; 1231; 4926
BsrI	ACTGGN!	8	1214; 1287; 1392; 1812; 1983; 3881; 4082; 5328
BsrI	C!CAGT	6	295; 1949; 2966; 3644; 5440; 5453
BsrBI	CCG!CTC	3	2042; 3361; 4550
BsrBI	GAG!CGG	2	3197; 4604
BsrDI	GCAATGNN!	2	2421; 4170
BsrDI	!CATTGC	1	2291
BsrFI	R!CCGGY	6	600; 2284; 3154; 4256; 4437; 4720
BsrGI	T!GTACA	1	653
BsrSI	ACTGGN!	8	1214; 1287; 1392; 1812; 1983; 3881; 4082; 5328
BsrSI	C!CAGT	6	295; 1949; 2966; 3644; 5440; 5453
BssAI	R!CCGGY	6	600; 2284; 3154; 4256; 4437; 4720
BssECI	C!CNNGG	25	360; 611; 698; 929; 2104; 2105; 2162; 2213; 2381; 2403; 2450; 3471; 3543; 3666; 3701; 3710; 3759; 4100; 4369; 4774; 4901; 4902; 5004; 5005; 5695
BssHII	G!CGCGC	0	
BssKI	!CCNGG	30	88; 281; 785; 834; 929; 944; 1073; 1182; 1351; 1633; 1746; 2104; 2117; 2196; 2207; 2403; 2496; 3471; 3526; 3543; 3939; 4099; 4322; 4712; 4901; 5004; 5476; 5694; 5707; 5828
BssMI	!GATC	24	585; 1124; 1150; 1330; 1348; 2572; 2581; 2594; 3774; 3778; 3797; 4108; 4186; 4267; 4276; 4354; 4730; 4746; 5105; 5117; 5195; 5203; 5214; 5289
BssNI	GR!CGYC	8	122; 175; 258; 444; 1187; 3937; 4639; 4718
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1255; 4655; 5682
BssSI	C!TCGTG	2	1105; 4529
BssTII	C!CWWGG	10	360; 611; 2162; 2213; 2381; 2450; 3666; 3759; 4369; 4774
Bst6I	CTCTTCN!	1	2049
Bst6I	!NNNNGAAGAG	5	1954; 2143; 3404; 4281; 4491
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 1187; 3937; 4639; 4718
BstAFI	C!TTAAG	0	
BstAPI	GCANNN!NTGC	4	1372; 3504; 3576; 5038
BstAUI	T!GTACA	1	653
BstBI	TT!CGAA	1	4619
Bst2BI	C!ACGAG	3	1255; 4655; 5682
Bst2BI	C!TCGTG	2	1105; 4529
BstBAI	YAC!GTR	3	340; 3053; 4241
Bst4CI	ACN!GT	17	76; 198; 269; 543; 581; 669; 1770; 2130; 2356; 3028; 4317; 4433; 4541; 4864; 5355; 5825; 5896
BstC8I	GCN!NGC	34	86; 279; 593; 622; 712; 916; 1592; 2286; 2315; 3156; 3199; 3213; 3486; 3505; 3558; 3577; 3831; 4017; 4236; 4302; 4308; 4336; 4340; 4381; 4385; 4439; 4722; 4909; 4956; 5012; 5034; 5245; 5805; 5842
BstDEI	C!TNAG	17	869; 1327; 1520; 1578; 1584; 1688; 1844; 1868; 1904; 1914; 2084; 3417; 3719; 4600; 5049; 5172; 5581
BstDSI	C!CRYGG	4	360; 611; 3666; 4369
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	2	2201; 2501
BstF5I	GGATGNN!	7	1901; 2006; 2413; 3797; 4254; 4279; 4733
BstF5I	!CATCC	5	694; 782; 839; 1714; 3623
BstFNI	CG!CG	15	60; 2825; 2861; 3237; 3257; 3281; 3312; 4003; 4304; 4742; 4826; 4889; 4958; 5231; 5812
BstH2I	RGCGC!Y	6	598; 1292; 3204; 3212; 3940; 5615
BstHHI	GCG!C	23	597; 1084; 1291; 3203; 3211; 3237; 3259; 3268; 3281; 3312; 3931; 3939; 4003; 4040; 4306; 4566; 4742; 4828; 5231; 5340; 5514; 5614; 5681
BstKTI	GAT!C	24	588; 1127; 1153; 1333; 1351; 2575; 2584; 2597; 3777; 3781; 3800; 4111; 4189; 4270; 4279; 4357; 4733; 4749; 5108; 5120; 5198; 5206; 5217; 5292
BstMAI	GTCTCN!	2	434; 2460
BstMAI	!NNNNNGAGAC	8	1042; 1132; 1231; 1652; 3361; 3779; 4798; 4926

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstMBI	!GATC	24	585; 1124; 1150; 1330; 1348; 2572; 2581; 2594; 3774; 3778; 3797; 4108; 4186; 4267; 4276; 4354; 4730; 4746; 5105; 5117; 5195; 5203; 5214; 5289
BstMCI	CGRY!CG	3	605; 3846; 5521
BstMWI	GCNNNNN!NNGC	34	90; 212; 244; 283; 376; 400; 648; 1079; 1372; 1624; 1693; 1848; 1909; 1993; 2245; 3164; 3194; 3221; 3263; 3504; 3576; 3627; 3706; 3928; 4012; 4035; 4174; 4297; 4380; 4647; 4834; 5038; 5237; 5809
BstNI	CC!WGG	22	90; 283; 787; 931; 946; 1075; 1635; 1748; 2106; 2119; 2198; 2405; 2498; 3473; 3528; 3545; 4324; 4903; 5006; 5696; 5709; 5830
BstNSI	RCATG!Y	7	642; 1088; 2401; 3507; 3579; 4342; 5859
BstOI	CC!WGG	22	90; 283; 787; 931; 946; 1075; 1635; 1748; 2106; 2119; 2198; 2405; 2498; 3473; 3528; 3545; 4324; 4903; 5006; 5696; 5709; 5830
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	2	1243; 1925
BstSCI	!CCNGG	30	88; 281; 785; 834; 929; 944; 1073; 1182; 1351; 1633; 1746; 2104; 2117; 2196; 2207; 2403; 2496; 3471; 3526; 3543; 3939; 4099; 4322; 4712; 4901; 5004; 5476; 5694; 5707; 5828
BstSFI	C!TRYAG	6	1376; 2174; 2352; 3272; 5399; 5590
BstSLI	GKGCMI!C	7	667; 694; 727; 2304; 3883; 3976; 5545
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	15	60; 2825; 2861; 3237; 3257; 3281; 3312; 4003; 4304; 4742; 4826; 4889; 4958; 5231; 5812
Bst2UI	CC!WGG	22	90; 283; 787; 931; 946; 1075; 1635; 1748; 2106; 2119; 2198; 2405; 2498; 3473; 3528; 3545; 4324; 4903; 5006; 5696; 5709; 5830
BstV1I	GCAGCNNNNNNN!	11	821; 1263; 1996; 2248; 2293; 2725; 4010; 4052; 4573; 5026; 5526
BstV1I	!NNNNNNNNNNNGCTGC	10	940; 1359; 1581; 1602; 3219; 3884; 4068; 4161; 5227; 5433
BstV2I	GAAGACNN!	1	911
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 1150; 1330; 1348; 2572; 2581; 4108; 4354; 4746; 5105; 5117; 5203; 5214
BstYI	R!GATCY	13	585; 1150; 1330; 1348; 2572; 2581; 4108; 4354; 4746; 5105; 5117; 5203; 5214
BstZI	C!GGCCG	1	3843
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	4	2346; 3366; 4156; 5657
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3777
Bsu36I	CC!TNAGG	4	869; 1578; 3417; 5049
BsuRI	GG!CC	34	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1459; 1638; 1851; 2122; 2207; 2212; 2551; 2903; 3045; 3700; 3706; 3715; 3758; 3845; 4019; 4410; 4437; 4946; 5003; 5036; 5381; 5815; 5833; 5844
BsuTUI	AT!CGAT	1	3777
BtgI	C!CRYGG	4	360; 611; 3666; 4369
BtgZI	GCGATGNNNNNNNNN!	2	3054; 4389
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 4208; 4552
BthCI	GCNG!C	42	761; 812; 956; 1073; 1254; 1375; 1597; 1618; 1621; 1987; 2042; 2117; 2239; 2284; 2716; 3235; 3257; 3271; 3709; 3848; 3900; 3911; 4001; 4006; 4043; 4084; 4171; 4174; 4177; 4413; 4509; 4550; 4564; 4678; 5017; 5032; 5243; 5449; 5452; 5517; 5660; 5815
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	1662
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	1622; 2776
BtsCI	GGATGNN!	7	1901; 2006; 2413; 3797; 4254; 4279; 4733
BtsCI	!CATCC	5	694; 782; 839; 1714; 3623
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	5	1479; 1659; 1887; 4205; 4655
BveI	!NNNNNNNNGCAGGT	1	3824

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cac8I	GCN!NGC	34	86; 279; 593; 622; 712; 916; 1592; 2286; 2315; 3156; 3199; 3213; 3486; 3505; 3558; 3577; 3831; 4017; 4236; 4302; 4308; 4336; 4340; 4381; 4385; 4439; 4722; 4909; 4956; 5012; 5034; 5245; 5805; 5842
CaiI	CAGNNN!CTG	2	5038; 5446
CciI	T!CATGA	2	3363; 5135
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	6	352; 1490; 4226; 4231; 4429; 4570
CdiI	C!GATG	4	1052; 1233; 3040; 4375
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5809
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	4	486; 1322; 3598; 3640
CelII	GC!TNAGC	0	
CfoI	GCG!C	23	597; 1084; 1291; 3203; 3211; 3237; 3259; 3268; 3281; 3312; 3931; 3939; 4003; 4040; 4306; 4566; 4742; 4828; 5231; 5340; 5514; 5614; 5681
CfrI	Y!GGCCR	7	1268; 1457; 2120; 3843; 4017; 4408; 4435
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	6	600; 2284; 3154; 4256; 4437; 4720
Cfr13I	G!GNCC	19	83; 276; 760; 1003; 1095; 1116; 1200; 1706; 1750; 1810; 2210; 2471; 2550; 3044; 4453; 4898; 4944; 5002; 5035
Cfr42I	CCGC!GG	0	
ChaI	GATC!	24	589; 1128; 1154; 1334; 1352; 2576; 2585; 2598; 3778; 3782; 3801; 4112; 4190; 4271; 4280; 4358; 4734; 4750; 5109; 5121; 5199; 5207; 5218; 5293
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	7	706; 1563; 2316; 3754; 5194; 5294; 5372
CjeI	!NNNNNNNNNACNNNNNNNTGG	10	64; 257; 1527; 1962; 2232; 3421; 3516; 4708; 5258; 5813
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	10	98; 291; 1561; 1996; 2266; 3455; 3550; 4742; 5292; 5847
CjeI	!NNNNNNNNCCANNNNNNGT	7	672; 1529; 2282; 3720; 5160; 5260; 5338
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	4	1877; 2353; 5194; 5372
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 4708; 5307
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 4741; 5340
CjePI	!NNNNNNNNCCANNNNNNNNTC	4	1844; 2320; 5161; 5339
ClaI	AT!CGAT	1	3777
CpoI	CG!GWCCG	1	4453
CseI	GACGCNNNNN!	3	526; 4647; 4726
CseI	!NNNNNNNNNNGCGTC	4	1176; 3270; 5165; 5743
CsiI	A!CCWGGT	1	3526
CspI	CG!GWCCG	1	4453
Csp6I	G!TAC	10	218; 243; 298; 331; 382; 539; 654; 804; 1056; 4242
Csp45I	TT!CGAA	1	4619
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	2	411; 2516
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	2	376; 2481
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	6	656; 1247; 1442; 2567; 3217; 4826
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	27	301; 361; 612; 639; 645; 657; 735; 801; 881; 1085; 1092; 1566; 2025; 2398; 3364; 3504; 3576; 3667; 3808; 4153; 4339; 4370; 4396; 4752; 5136; 5856; 5907
CviJI	RG!CY	135	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; 1340; 1372; 1422; 1433; 1452; 1459; 1495; 1506; 1531; 1571; 1583; 1594; 1638; 1668; 1674; 1687; 1722; 1738; 1780; 1831; 1851; 1918; 2022; 2039; 2053; 2073; 2088; 2093; 2114; 2122; 2171; 2196; 2207; 2212; 2239; 2248; 2256; 2284; 2288; 2351; 2479; 2496; 2551; 2557; 2606; 2716; 2883; 2903; 3045; 3126; 3140; 3154; 3435; 3476; 3548; 3671; 3700; 3706; 3715; 3723; 3746; 3758; 3764; 3845; 3862; 3870; 3897; 3922; 4006; 4015; 4019; 4043; 4081; 4157; 4174; 4193; 4256; 4300; 4310; 4327; 4410; 4437; 4441; 4478; 4501; 4517; 4697; 4724; 4785; 4907; 4946; 5003; 5010; 5017; 5036; 5047; 5298; 5327; 5370; 5381; 5446; 5525; 5550; 5555; 5601; 5691; 5789; 5815; 5833; 5844

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	135	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; 1340; 1372; 1422; 1433; 1452; 1459; 1495; 1506; 1531; 1571; 1583; 1594; 1638; 1668; 1674; 1687; 1722; 1738; 1780; 1831; 1851; 1918; 2022; 2039; 2053; 2073; 2088; 2093; 2114; 2122; 2171; 2196; 2207; 2212; 2239; 2248; 2256; 2284; 2288; 2351; 2479; 2496; 2551; 2557; 2606; 2716; 2883; 2903; 3045; 3126; 3140; 3154; 3435; 3476; 3548; 3671; 3700; 3706; 3715; 3723; 3746; 3758; 3764; 3845; 3862; 3870; 3897; 3922; 4006; 4015; 4019; 4043; 4081; 4157; 4174; 4193; 4256; 4300; 4310; 4327; 4410; 4437; 4441; 4478; 4501; 4517; 4697; 4724; 4785; 4907; 4946; 5003; 5010; 5017; 5036; 5047; 5298; 5327; 5370; 5381; 5446; 5525; 5550; 5555; 5601; 5691; 5789; 5815; 5833; 5844
CviQI	G!TAC	10	218; 243; 298; 331; 382; 539; 654; 804; 1056; 4242
DdeI	C!TNAG	17	869; 1327; 1520; 1578; 1584; 1688; 1844; 1868; 1904; 1914; 2084; 3417; 3719; 4600; 5049; 5172; 5581
DinI	GGC!GCC	1	3938
DpnI	GA!TC	24	587; 1126; 1152; 1332; 1350; 2574; 2583; 2596; 3776; 3780; 3799; 4110; 4188; 4269; 4278; 4356; 4732; 4748; 5107; 5119; 5197; 5205; 5216; 5291
DpnII	!GATC	24	585; 1124; 1150; 1330; 1348; 2572; 2581; 2594; 3774; 3778; 3797; 4108; 4186; 4267; 4276; 4354; 4730; 4746; 5105; 5117; 5195; 5203; 5214; 5289
DraI	TTT!AAA	3	2639; 5081; 5100
DraII	RG!GNCCY	1	5035
DraIII	CACNNN!GTG	2	1260; 3053
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	5	266; 851; 2408; 2513; 5417
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	4	1905; 3008; 3964; 5753
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	1905; 3008; 3964; 5753
EaeI	Y!GGCCR	7	1268; 1457; 2120; 3843; 4017; 4408; 4435
EagI	C!GGCCG	1	3843
Eam1104I	CTCTCN!	1	2049
Eam1104I	!NNNNGAAGAG	5	1954; 2143; 3404; 4281; 4491
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	1	2049
EarI	!NNNNGAAGAG	5	1954; 2143; 3404; 4281; 4491
EciI	GGCGGANNNNNNNNNNNN!	4	3437; 4466; 5653; 5799
EciI	!NNNNNNNNNTCCGCC	4	496; 3608; 3629; 3650
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	1	3843
Eco24I	GRGCY!C	4	2055; 3128; 4302; 5012
Eco31I	GGTCTCN!	1	2460
Eco31I	!NNNNNGAGACC	3	1132; 1231; 4926
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	7	1200; 1706; 1750; 1810; 2471; 4453; 4898
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	3843
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	1120; 2167; 4083; 4515
Eco57I	!NNNNNNNNNNNNNNNCTTCAG	1	5313
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	4	869; 1578; 3417; 5049
Eco88I	C!YCGRG	1	2012
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWVGG	10	360; 611; 2162; 2213; 2381; 2450; 3666; 3759; 4369; 4774
Eco147I	AGG!CCT	3	1039; 1638; 3758
EcoHI	!CCSGG	8	834; 1182; 1351; 2207; 3939; 4099; 4712; 5476
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	6	1120; 2167; 2219; 4083; 4515; 4777
Eco57MI	!NNNNNNNNNNNNNNNCTYCAG	3	928; 4720; 5313
EcoNI	CCTNN!NNNAGG	2	2201; 2501
Eco065I	G!GTNACC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EcoO109I	RG!GNCCY	1	5035
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	22	88; 281; 785; 929; 944; 1073; 1633; 1746; 2104; 2117; 2196; 2403; 2496; 3471; 3526; 3543; 4322; 4901; 5004; 5694; 5707; 5828
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	10	360; 611; 2162; 2213; 2381; 2450; 3666; 3759; 4369; 4774
EcoT22I	ATGCA!T	3	3509; 3581; 5912
EcoT38I	GRGCY!C	4	2055; 3128; 4302; 5012
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	1	3938
EheI	GGC!GCC	1	3938
ErhI	C!CWWGG	10	360; 611; 2162; 2213; 2381; 2450; 3666; 3759; 4369; 4774
EsaBC3I	TC!GA	16	753; 780; 1248; 1490; 2014; 3087; 3778; 4051; 4207; 4231; 4267; 4429; 4620; 4665; 4920; 5758
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	2	1042; 1652
FaeI	CATG!	27	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1569; 2028; 2401; 3367; 3507; 3579; 3670; 3811; 4156; 4342; 4373; 4399; 4755; 5139; 5859; 5910
Fail	YA!TR	67	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; 1567; 2026; 2360; 2399; 2446; 2599; 2609; 2675; 2720; 2925; 3353; 3365; 3496; 3505; 3568; 3577; 3601; 3668; 3692; 3809; 3873; 4154; 4179; 4340; 4371; 4397; 4469; 4685; 4753; 4831; 4883; 5044; 5061; 5063; 5065; 5137; 5415; 5604; 5720; 5793; 5857; 5908
Fail	AAGNNNNNCTTNNNNNNNNNNNN!	3	879; 2553; 4277
Fail	!NNNNNNNNAAGNNNNNCTT	3	847; 2521; 4245
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4088; 4620; 4729
FaqI	!NNNNNNNNNNNNNGTCCC	5	2386; 3453; 3525; 3589; 4884
FatI	!CATG	27	300; 360; 611; 638; 644; 656; 734; 800; 880; 1084; 1091; 1565; 2024; 2397; 3363; 3503; 3575; 3666; 3807; 4152; 4338; 4369; 4395; 4751; 5135; 5855; 5906
FauI	CCCGCNNNN!	11	93; 119; 286; 1068; 1170; 1415; 3259; 3614; 3635; 4831; 4963
FauI	!NNNNNGCGGG	6	1105; 3190; 4060; 4597; 4735; 4882
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2594
FblI	GT!MKAC	1	1190
FmuI	GGNC!C	19	86; 279; 763; 1006; 1098; 1119; 1203; 1709; 1753; 1813; 2213; 2474; 2553; 3047; 4456; 4901; 4947; 5005; 5038
Fnu4HI	GC!NGC	42	759; 810; 954; 1071; 1252; 1373; 1595; 1616; 1619; 1985; 2040; 2115; 2237; 2282; 2714; 3233; 3255; 3269; 3707; 3846; 3898; 3909; 3999; 4004; 4041; 4082; 4169; 4172; 4175; 4411; 4507; 4548; 4562; 4676; 5015; 5030; 5241; 5447; 5450; 5515; 5658; 5813
FokI	GGATGNNNNNNNNN!	7	1908; 2013; 2420; 3804; 4261; 4286; 4740
FokI	!NNNNNNNNNNNNNCATCC	5	681; 769; 826; 1701; 3610
FriOI	GRGCY!C	4	2055; 3128; 4302; 5012
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	4039
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	10	592; 2036; 2090; 2585; 2786; 3204; 3760; 4775; 5109; 5362

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	206	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; 1356; 1419; 1436; 1466; 1484; 1509; 1531; 1547; 1577; 1604; 1624; 1647; 1664; 1682; 1710; 1727; 1746; 1760; 1776; 1794; 1818; 1841; 1856; 1892; 1926; 1953; 1983; 2003; 2022; 2036; 2053; 2087; 2102; 2117; 2131; 2151; 2175; 2206; 2221; 2256; 2270; 2298; 2324; 2341; 2382; 2416; 2463; 2487; 2510; 2565; 2589; 2620; 2659; 2673; 2814; 2909; 2933; 2956; 2979; 2997; 3019; 3040; 3059; 3078; 3107; 3128; 3142; 3168; 3256; 3282; 3331; 3372; 3390; 3429; 3445; 3483; 3540; 3555; 3612; 3632; 3646; 3663; 3677; 3714; 3729; 3772; 3855; 3922; 3953; 3973; 3988; 4033; 4047; 4113; 4127; 4146; 4162; 4203; 4223; 4270; 4320; 4336; 4356; 4381; 4401; 4424; 4451; 4469; 4495; 4535; 4561; 4585; 4641; 4655; 4683; 4726; 4747; 4782; 4826; 4914; 4938; 4960; 4980; 4996; 5017; 5031; 5050; 5134; 5154; 5182; 5197; 5231; 5273; 5300; 5315; 5360; 5384; 5398; 5420; 5446; 5466; 5490; 5516; 5564; 5583; 5602; 5628; 5663; 5708; 5738; 5752; 5803; 5817; 5842; 5858; 5879; 5908
FspEI	!NNNNNNNNNNNNNNNGG	157	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; 1331; 1354; 1373; 1402; 1441; 1529; 1565; 1620; 1675; 1733; 1793; 1833; 1855; 1878; 1964; 1982; 2033; 2091; 2149; 2183; 2218; 2270; 2303; 2368; 2390; 2425; 2453; 2483; 2527; 2548; 2608; 2708; 2777; 2885; 2934; 2956; 2984; 3020; 3065; 3094; 3130; 3149; 3177; 3197; 3260; 3283; 3391; 3423; 3441; 3470; 3513; 3542; 3653; 3682; 3725; 3746; 3774; 3807; 3827; 3852; 3879; 3904; 3926; 3954; 3980; 4001; 4052; 4073; 4091; 4139; 4175; 4231; 4256; 4280; 4309; 4332; 4356; 4382; 4404; 4423; 4448; 4488; 4524; 4589; 4674; 4698; 4727; 4761; 4782; 4802; 4847; 4874; 4893; 4926; 4978; 5009; 5036; 5088; 5186; 5257; 5302; 5363; 5428; 5462; 5488; 5506; 5542; 5612; 5635; 5657; 5681; 5714; 5762; 5797; 5815; 5872
Fsp4HI	GC!NGC	42	759; 810; 954; 1071; 1252; 1373; 1595; 1616; 1619; 1985; 2040; 2115; 2237; 2282; 2714; 3233; 3255; 3269; 3707; 3846; 3898; 3909; 3999; 4004; 4041; 4082; 4169; 4172; 4175; 4411; 4507; 4548; 4562; 4676; 5015; 5030; 5241; 5447; 5450; 5515; 5658; 5813
GdiII	C!GGCCR	1	3843
GdiII	Y!GGCCG	3	3843; 4408; 4435
GlaI	GC!GC	23	596; 1083; 1290; 3202; 3210; 3236; 3258; 3267; 3280; 3311; 3930; 3938; 4002; 4039; 4305; 4565; 4741; 4827; 5230; 5339; 5513; 5613; 5680
GluI	GC!NGC	42	759; 810; 954; 1071; 1252; 1373; 1595; 1616; 1619; 1985; 2040; 2115; 2237; 2282; 2714; 3233; 3255; 3269; 3707; 3846; 3898; 3909; 3999; 4004; 4041; 4082; 4169; 4172; 4175; 4411; 4507; 4548; 4562; 4676; 5015; 5030; 5241; 5447; 5450; 5515; 5658; 5813
GsaI	CCCAG!C	6	997; 1738; 1996; 3484; 3556; 5555
GsaI	GCTGG!G	4	1035; 2252; 2321; 4445
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	2	2219; 4777
GsuI	!NNNNNNNNNNNNNCTCCAG	2	928; 4720
HaeI	WGG!CCW	11	1039; 1270; 1459; 1638; 1851; 2122; 3758; 4019; 5381; 5833; 5844
HaeII	RGCGC!Y	6	598; 1292; 3204; 3212; 3940; 5615
HaeIII	GG!CC	34	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1459; 1638; 1851; 2122; 2207; 2212; 2551; 2903; 3045; 3700; 3706; 3715; 3758; 3845; 4019; 4410; 4437; 4946; 5003; 5036; 5381; 5815; 5833; 5844
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	3	2541; 2612; 4133
HaeIV	!NNNNNNNNNGAYNNNNNRTC	3	2507; 2578; 4099
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	3	2540; 2611; 4132
HaeIV	!NNNNNNNNNGAYNNNNNRTC	3	2509; 2580; 4101
HapII	C!CGG	24	601; 835; 1184; 1322; 1353; 2208; 2285; 2579; 3155; 3842; 3919; 3941; 3969; 4100; 4190; 4257; 4438; 4713; 4721; 4813; 5287; 5477; 5503; 5650
HgaI	GACGCNNNNN!	3	526; 4647; 4726
HgaI	!NNNNNNNNNGCGTC	4	1176; 3270; 5165; 5743

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HhaI	GCG!C	23	597; 1084; 1291; 3203; 3211; 3237; 3259; 3268; 3281; 3312; 3931; 3939; 4003; 4040; 4306; 4566; 4742; 4828; 5231; 5340; 5514; 5614; 5681
Hin1I	GR!CGYC	8	122; 175; 258; 444; 1187; 3937; 4639; 4718
Hin1II	CATG!	27	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1569; 2028; 2401; 3367; 3507; 3579; 3670; 3811; 4156; 4342; 4373; 4399; 4755; 5139; 5859; 5910
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	4	2027; 2540; 2611; 4132
Hin4I	!NNNNNNNGABNNNNNRTC	5	2340; 2495; 2579; 4100; 4130
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	5	2372; 2527; 2611; 4132; 4162
Hin4I	!NNNNNNNGAYNNNNNVTC	4	1995; 2508; 2579; 4100
Hin6I	G!CGC	23	595; 1082; 1289; 3201; 3209; 3235; 3257; 3266; 3279; 3310; 3929; 3937; 4001; 4038; 4304; 4564; 4740; 4826; 5229; 5338; 5512; 5612; 5679
HinP1I	G!CGC	23	595; 1082; 1289; 3201; 3209; 3235; 3257; 3266; 3279; 3310; 3929; 3937; 4001; 4038; 4304; 4564; 4740; 4826; 5229; 5338; 5512; 5612; 5679
HincII	GTY!RAC	1	2700
HindII	GTY!RAC	1	2700
HindIII	A!AGCTT	0	
HinfI	G!ANTC	18	410; 740; 890; 1217; 1325; 1926; 2015; 2424; 2980; 3002; 3412; 4422; 4556; 4608; 4666; 4703; 5485; 5881
HpaI	GTT!AAC	1	2700
HpaII	C!CGG	24	601; 835; 1184; 1322; 1353; 2208; 2285; 2579; 3155; 3842; 3919; 3941; 3969; 4100; 4190; 4257; 4438; 4713; 4721; 4813; 5287; 5477; 5503; 5650
HphI	GGTGANNNNNNN!	7	376; 627; 996; 1306; 2121; 5008; 5124
HphI	!NNNNNNNTCACC	3	885; 3054; 4115
Hpy8I	GTN!NAC	16	201; 539; 577; 672; 692; 987; 1191; 1200; 2064; 2302; 2442; 2700; 2984; 3001; 3056; 5543
Hpy99I	CGWCG!	10	754; 1234; 1249; 4027; 4055; 4349; 4364; 4641; 5026; 5759
Hpy166II	GTN!NAC	16	201; 539; 577; 672; 692; 987; 1191; 1200; 2064; 2302; 2442; 2700; 2984; 3001; 3056; 5543
Hpy188I	TCN!GA	16	585; 699; 1330; 2423; 2429; 2528; 3111; 3720; 3904; 4248; 4601; 4702; 5181; 5315; 5668; 5746
Hpy188III	TC!NNGA	25	1176; 1322; 1863; 2328; 2514; 2585; 3364; 3416; 3729; 3782; 3955; 4271; 4280; 4363; 4419; 4463; 4553; 4586; 4655; 5136; 5210; 5293; 5391; 5489; 5623
HpyAV	CCTTCNNNNNN!	8	780; 828; 873; 1649; 1733; 4582; 4689; 5368
HpyAV	!NNNNNGAAGG	10	700; 1072; 2541; 3170; 4065; 4794; 4810; 4993; 5310; 5620
HpyCH4III	ACN!GT	17	76; 198; 269; 543; 581; 669; 1770; 2130; 2356; 3028; 4317; 4433; 4541; 4864; 5355; 5825; 5896
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 1661; 2997; 3009; 3052; 3162; 4053; 4240; 5021; 5154
HpyCH4V	TG!CA	23	692; 1014; 1130; 1474; 2032; 2269; 2302; 2686; 2713; 2781; 3498; 3507; 3570; 3579; 3694; 3770; 3829; 3988; 4163; 4177; 5247; 5543; 5910
HpyF3I	C!TNAG	17	869; 1327; 1520; 1578; 1584; 1688; 1844; 1868; 1904; 1914; 2084; 3417; 3719; 4600; 5049; 5172; 5581
HpyF10VI	GCNNNNN!NNGC	34	90; 212; 244; 283; 376; 400; 648; 1079; 1372; 1624; 1693; 1848; 1909; 1993; 2245; 3164; 3194; 3221; 3263; 3504; 3576; 3627; 3706; 3928; 4012; 4035; 4174; 4297; 4380; 4647; 4834; 5038; 5237; 5809
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 1187; 3937; 4639; 4718
Hsp92II	CATG!	27	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1569; 2028; 2401; 3367; 3507; 3579; 3670; 3811; 4156; 4342; 4373; 4399; 4755; 5139; 5859; 5910
HspAI	G!CGC	23	595; 1082; 1289; 3201; 3209; 3235; 3257; 3266; 3279; 3310; 3929; 3937; 4001; 4038; 4304; 4564; 4740; 4826; 5229; 5338; 5512; 5612; 5679
KasI	G!GCGCC	1	3936
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1321
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	2594
KspAI	GTT!AAC	1	2700

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kzo9I	!GATC	24	585; 1124; 1150; 1330; 1348; 2572; 2581; 2594; 3774; 3778; 3797; 4108; 4186; 4267; 4276; 4354; 4730; 4746; 5105; 5117; 5195; 5203; 5214; 5289
LguI	GCTCTTCN!	1	2049
LguI	!NNNNGAAGAGC	2	4281; 4491
LpnI	RGCI:GCY	6	596; 1290; 3202; 3210; 3938; 5613
LpnPI	CCDGNNNNNNNNNN!	85	102; 295; 614; 742; 799; 848; 881; 943; 958; 1007; 1087; 1111; 1135; 1197; 1284; 1335; 1366; 1448; 1484; 1541; 1604; 1625; 1647; 1664; 1748; 1841; 1869; 1892; 1962; 2006; 2118; 2153; 2206; 2221; 2270; 2298; 2327; 2341; 2417; 2510; 2592; 2674; 2979; 3168; 3391; 3429; 3445; 3485; 3540; 3557; 3657; 3742; 3855; 3932; 3954; 3977; 4113; 4127; 4146; 4203; 4270; 4320; 4336; 4393; 4451; 4660; 4726; 4750; 4826; 4915; 5018; 5051; 5282; 5300; 5446; 5466; 5490; 5516; 5565; 5663; 5708; 5738; 5817; 5842; 5879
LpnPI	!NNNNNNNNNNNNNNCHGG	72	75; 268; 552; 586; 772; 820; 916; 1017; 1060; 1169; 1195; 1268; 1307; 1331; 1373; 1529; 1565; 1620; 1733; 1793; 1964; 1982; 2033; 2091; 2183; 2234; 2270; 2303; 2390; 2483; 2564; 3020; 3140; 3197; 3260; 3458; 3470; 3530; 3542; 3774; 3819; 3862; 3904; 3926; 3954; 4001; 4063; 4085; 4175; 4242; 4265; 4309; 4404; 4423; 4448; 4597; 4698; 4741; 4798; 4888; 4991; 5018; 5036; 5272; 5309; 5462; 5488; 5628; 5646; 5681; 5762; 5815
Lsp1109I	GCAGCNNNNNNNN!	11	821; 1263; 1996; 2248; 2293; 2725; 4010; 4052; 4573; 5026; 5526
Lsp1109I	!NNNNNNNNNNNNNGCTGC	10	940; 1359; 1581; 1602; 3219; 3884; 4068; 4161; 5227; 5433
LweI	GCATCNNNNNN!	8	848; 1868; 2753; 3516; 3588; 4236; 4300; 4575
LweI	!NNNNNNNNNNNGATGC	7	357; 1001; 1169; 3895; 4150; 4366; 5758
MabI	A!CCWGGT	1	3526
MaeI	C!TAG	10	592; 2036; 2090; 2585; 2786; 3204; 3760; 4775; 5109; 5362
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 1661; 2997; 3009; 3052; 3162; 4053; 4240; 5021; 5154
MaeIII	!GTNAC	16	61; 148; 497; 891; 1087; 1383; 2271; 2725; 3226; 3238; 4057; 4363; 5053; 5319; 5435; 5498
MalI	GA!TC	24	587; 1126; 1152; 1332; 1350; 2574; 2583; 2596; 3776; 3780; 3799; 4110; 4188; 4269; 4278; 4356; 4732; 4748; 5107; 5119; 5197; 5205; 5216; 5291
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	3	2042; 3361; 4550
MbiI	GAG!CGG	2	3197; 4604
MboI	!GATC	24	585; 1124; 1150; 1330; 1348; 2572; 2581; 2594; 3774; 3778; 3797; 4108; 4186; 4267; 4276; 4354; 4730; 4746; 5105; 5117; 5195; 5203; 5214; 5289
MboII	GAAGANNNNNNNN!	10	916; 1029; 1372; 1971; 2160; 3193; 3421; 4298; 4508; 5127
MboII	!NNNNNNNTCTTC	5	2036; 4588; 4755; 4955; 5198
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2687
MfII	R!GATCY	13	585; 1150; 1330; 1348; 2572; 2581; 4108; 4354; 4746; 5105; 5117; 5203; 5214
MhII	GDGCH!C	13	667; 694; 727; 2055; 2304; 3128; 3883; 3976; 4050; 4240; 4302; 5012; 5545
MIsI	TGG!CCA	4	1270; 1459; 2122; 4019
MluI	A!CGCGT	1	2823
MluNI	TGG!CCA	4	1270; 1459; 2122; 4019
MlyI	GAGTCNNNNNN!	5	899; 1935; 2024; 2989; 3421
MlyI	!NNNNNGACTC	5	404; 1319; 2996; 4602; 5479
Mly113I	GG!CGCC	1	3937
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	1	3030
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	5462; 5646
MnII	CCTCNNNNNNNN!	22	773; 842; 952; 967; 1050; 1183; 1551; 1582; 1719; 1750; 1800; 1923; 1953; 2106; 2469; 2656; 3720; 4538; 4744; 5058; 5428; 5752
MnII	!NNNNNNGAGG	29	541; 654; 693; 714; 747; 864; 973; 1029; 1218; 1251; 1294; 1306; 1841; 1863; 2194; 2226; 2497; 2616; 3081; 3412; 3690; 3733; 3748; 3788; 3852; 3988; 4345; 4775; 5678
Mph1103I	ATGCA!T	3	3509; 3581; 5912

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1321
MroNI	G!CCGGC	4	2284; 3154; 4437; 4720
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	4	1270; 1459; 2122; 4019
MseI	T!TAA	18	7; 629; 854; 2393; 2638; 2699; 2820; 2841; 2852; 2864; 2875; 2892; 2990; 3261; 5080; 5094; 5099; 5151
MslI	CAYNN!NNRTG	4	365; 613; 643; 4374
MspI	C!CGG	24	601; 835; 1184; 1322; 1353; 2208; 2285; 2579; 3155; 3842; 3919; 3941; 3969; 4100; 4190; 4257; 4438; 4713; 4721; 4813; 5287; 5477; 5503; 5650
Msp20I	TGG!CCA	4	1270; 1459; 2122; 4019
MspAII	CMG!CKG	8	1063; 1594; 1918; 2248; 3435; 4043; 5272; 5517
MspCI	C!TTAAG	0	
MspJI	CNNRNNNNNNNN!	306	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; 1356; 1369; 1400; 1419; 1441; 1460; 1478; 1502; 1519; 1532; 1546; 1576; 1590; 1603; 1617; 1646; 1659; 1674; 1687; 1700; 1717; 1730; 1746; 1759; 1776; 1794; 1810; 1825; 1840; 1855; 1868; 1891; 1916; 1931; 1944; 1961; 1987; 2004; 2024; 2037; 2060; 2079; 2096; 2116; 2130; 2152; 2174; 2189; 2205; 2220; 2243; 2256; 2269; 2288; 2309; 2326; 2340; 2371; 2393; 2410; 2434; 2457; 2474; 2487; 2503; 2526; 2539; 2553; 2566; 2591; 2605; 2620; 2644; 2661; 2674; 2715; 2729; 2742; 2760; 2798; 2813; 2831; 2872; 2896; 2916; 2934; 2955; 2978; 3010; 3025; 3047; 3065; 3078; 3099; 3116; 3129; 3142; 3158; 3171; 3201; 3216; 3241; 3259; 3272; 3287; 3311; 3325; 3349; 3374; 3390; 3428; 3444; 3483; 3497; 3511; 3539; 3555; 3569; 3583; 3612; 3625; 3646; 3655; 3677; 3707; 3723; 3741; 3771; 3794; 3818; 3842; 3861; 3889; 3915; 3931; 3944; 3967; 3981; 4001; 4014; 4028; 4047; 4061; 4074; 4090; 4105; 4118; 4134; 4149; 4165; 4190; 4209; 4225; 4238; 4251; 4269; 4283; 4297; 4313; 4335; 4351; 4370; 4392; 4408; 4431; 4450; 4464; 4480; 4494; 4514; 4530; 4543; 4565; 4598; 4612; 4632; 4645; 4659; 4713; 4726; 4749; 4762; 4781; 4798; 4825; 4861; 4894; 4913; 4938; 4959; 4986; 4999; 5016; 5030; 5045; 5061; 5121; 5146; 5162; 5184; 5197; 5211; 5242; 5256; 5281; 5299; 5314; 5327; 5346; 5359; 5374; 5403; 5422; 5440; 5465; 5480; 5499; 5515; 5534; 5552; 5568; 5582; 5601; 5628; 5651; 5673; 5692; 5707; 5720; 5737; 5757; 5784; 5797; 5816; 5841; 5864; 5878; 5891; 5908
MspJI	!NNNNNNNNNNNNYNG	241	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 598; 616; 643; 673; 697; 715; 739; 758; 780; 811; 830; 854; 887; 916; 958; 980; 1013; 1033; 1060; 1078; 1095; 1113; 1141; 1162; 1183; 1207; 1229; 1252; 1269; 1307; 1328; 1365; 1393; 1416; 1441; 1507; 1529; 1552; 1571; 1598; 1620; 1637; 1675; 1705; 1733; 1784; 1814; 1831; 1849; 1891; 1909; 1931; 1965; 1983; 2000; 2022; 2045; 2071; 2091; 2120; 2142; 2179; 2200; 2235; 2271; 2300; 2334; 2356; 2380; 2407; 2437; 2455; 2473; 2500; 2527; 2550; 2571; 2589; 2618; 2647; 2689; 2772; 2810; 2834; 2857; 2886; 2930; 2952; 2984; 3020; 3037; 3058; 3095; 3115; 3132; 3149; 3184; 3202; 3220; 3237; 3261; 3283; 3310; 3338; 3364; 3402; 3423; 3440; 3458; 3481; 3502; 3530; 3553; 3574; 3592; 3613; 3630; 3653; 3677; 3697; 3715; 3737; 3768; 3790; 3816; 3835; 3852; 3880; 3899; 3918; 3936; 3954; 3975; 3997; 4021; 4054; 4074; 4092; 4113; 4139; 4166; 4183; 4200; 4217; 4243; 4265; 4287; 4305; 4325; 4344; 4366; 4404; 4424; 4448; 4468; 4488; 4515; 4539; 4572; 4591; 4619; 4641; 4670; 4698; 4723; 4742; 4761; 4782; 4799; 4816; 4847; 4874; 4894; 4917; 4937; 4974; 4991; 5010; 5036; 5056; 5095; 5122; 5141; 5159; 5196; 5214; 5255; 5273; 5299; 5316; 5348; 5377; 5405; 5426; 5449; 5468; 5489; 5507; 5524; 5542; 5568; 5589; 5609; 5629; 5647; 5668; 5694; 5711; 5730; 5749; 5778; 5797; 5815; 5834; 5852; 5870; 5893
MspR9I	CC!NGG	30	90; 283; 787; 836; 931; 946; 1075; 1184; 1353; 1635; 1748; 2106; 2119; 2198; 2209; 2405; 2498; 3473; 3528; 3545; 3941; 4101; 4324; 4714; 4903; 5006; 5478; 5696; 5709; 5830
MssI	GTTT!AAAC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MunI	C!AATTG	1	2687
MvaI	CC!WGG	22	90; 283; 787; 931; 946; 1075; 1635; 1748; 2106; 2119; 2198; 2405; 2498; 3473; 3528; 3545; 4324; 4903; 5006; 5696; 5709; 5830
Mva1269I	GAATGCN!	1	2688
Mva1269I	G!CATTC	1	2781
MvnI	CG!CG	15	60; 2825; 2861; 3237; 3257; 3281; 3312; 4003; 4304; 4742; 4826; 4889; 4958; 5231; 5812
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	34	90; 212; 244; 283; 376; 400; 648; 1079; 1372; 1624; 1693; 1848; 1909; 1993; 2245; 3164; 3194; 3221; 3263; 3504; 3576; 3627; 3706; 3928; 4012; 4035; 4174; 4297; 4380; 4647; 4834; 5038; 5237; 5809
NaeI	GCC!GGC	4	2286; 3156; 4439; 4722
NarI	GG!CGCC	1	3937
NciI	CC!SGG	8	836; 1184; 1353; 2209; 3941; 4101; 4714; 5478
NcoI	C!CATGG	4	360; 611; 3666; 4369
NdeI	CA!TATG	1	234
NdeII	!GATC	24	585; 1124; 1150; 1330; 1348; 2572; 2581; 2594; 3774; 3778; 3797; 4108; 4186; 4267; 4276; 4354; 4730; 4746; 5105; 5117; 5195; 5203; 5214; 5289
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	731
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	767
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	2284; 3154; 4437; 4720
NheI	G!CTAGC	1	591
NlaIII	CATG!	27	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1569; 2028; 2401; 3367; 3507; 3579; 3670; 3811; 4156; 4342; 4373; 4399; 4755; 5139; 5859; 5910
NlaIV	GGN!NCC	24	467; 666; 726; 1117; 1320; 1341; 1350; 1421; 2289; 2472; 2574; 3092; 3113; 3125; 3316; 3477; 3549; 3938; 3973; 4821; 4900; 4945; 5788; 5827
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	1422; 2769; 3084; 4676
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 991; 1277; 5748
Nli3877I	CYCGR!G	1	2016
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3726; 4162
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1007; 3691
NmeDI	RCCGGYNNNNNNNN!	6	612; 2296; 3166; 4268; 4449; 4732
NmeDI	!NNNNNNNNNNNNRCCGGY	6	587; 2271; 3141; 4243; 4424; 4707
NmuCI	!GTSAC	7	891; 1087; 1383; 2271; 3226; 4057; 4363
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4039
NsiI	ATGCA!T	3	3509; 3581; 5912
NspI	RCATG!Y	7	642; 1088; 2401; 3507; 3579; 4342; 5859
NspV	TT!CGAA	1	4619
OliI	CACNN!NNGTG	1	613
PabI	GTA!C	10	220; 245; 300; 333; 384; 541; 656; 806; 1058; 4244
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3507; 3579; 4342
PaeR7I	C!TCGAG	1	2012
PagI	T!CATGA	2	3363; 5135
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	2105; 4902; 5005
PauI	G!CGCGC	0	
PceI	AGG!CCT	3	1039; 1638; 3758
PciI	A!CATGT	1	5855
PciSI	GCTCTCN!	1	2049
PciSI	!NNNNGAAGAGC	2	4281; 4491
PcsI	WCGNNNN!NNNCGW	7	1253; 4231; 4308; 4551; 4625; 5018; 5536
PctI	GAATGCN!	1	2688
PctI	G!CATTC	1	2781
PdiI	GCC!GGC	4	2286; 3156; 4439; 4722
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	8	740; 1217; 2424; 4422; 4556; 4666; 4703; 5881

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	4055
PfIMI	CCANNNN!NTGG	1	1209
PfoI	T!CCNGGA	2	944; 4712
PhoI	GG!CC	34	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1459; 1638; 1851; 2122; 2207; 2212; 2551; 2903; 3045; 3700; 3706; 3715; 3758; 3845; 4019; 4410; 4437; 4946; 5003; 5036; 5381; 5815; 5833; 5844
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	4318
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	1863; 3883; 4138
PleI	GAGTCNNNN!	5	898; 1934; 2023; 2988; 3420
PleI	!NNNNNGACTC	5	404; 1319; 2996; 4602; 5479
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	3019
PpiI	!NNNNNNNGAGNNNNNGTTC	1	5149
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	5181
PpiI	!NNNNNNNGAACNNNNNCTC	1	2987
PpsI	GAGTCNNNN!	5	898; 1934; 2023; 2988; 3420
PpsI	!NNNNNGACTC	5	404; 1319; 2996; 4602; 5479
Ppu10I	A!TGCAT	3	3505; 3577; 5908
Ppu21I	YAC!GTR	3	340; 3053; 4241
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	5855
PshAI	GACNN!NNGTC	2	1243; 1925
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2720; 2925
Psp03I	GGWC!C	7	1203; 1709; 1753; 1813; 2474; 4456; 4901
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	22	88; 281; 785; 929; 944; 1073; 1633; 1746; 2104; 2117; 2196; 2403; 2496; 3471; 3526; 3543; 4322; 4901; 5004; 5694; 5707; 5828
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	22	88; 281; 785; 929; 944; 1073; 1633; 1746; 2104; 2117; 2196; 2403; 2496; 3471; 3526; 3543; 4322; 4901; 5004; 5694; 5707; 5828
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	24	467; 666; 726; 1117; 1320; 1341; 1350; 1421; 2289; 2472; 2574; 3092; 3113; 3125; 3316; 3477; 3549; 3938; 3973; 4821; 4900; 4945; 5788; 5827
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 3667; 4666
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	4069
PspPI	G!GNCC	19	83; 276; 760; 1003; 1095; 1116; 1200; 1706; 1750; 1810; 2210; 2471; 2550; 3044; 4453; 4898; 4944; 5002; 5035
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNNNN!	7	1597; 1753; 1933; 2011; 3490; 3562; 5068
PspPRI	!NNNNNNNNNNNNNNNNNNCTGRGG	6	855; 1854; 1965; 2034; 3403; 4598
PspXI	VC!TCGAGB	1	2012
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	5038
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	2	5038; 5446
PsuI	R!GATCY	13	585; 1150; 1330; 1348; 2572; 2581; 4108; 4354; 4746; 5105; 5117; 5203; 5214
PsyI	GACN!NNGTC	1	4055
PteI	G!CGCGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	5	1594; 1918; 2248; 3435; 4043
RcaI	T!CATGA	2	3363; 5135
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	4452
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	2	1616; 2666
RleAI	!NNNNNNNNNTGTGGG	1	2457
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	10	219; 244; 299; 332; 383; 540; 655; 805; 1057; 4243
RsaNI	G!TAC	10	218; 243; 298; 331; 382; 539; 654; 804; 1056; 4242
RseI	CAYNN!NNRTG	4	365; 613; 643; 4374
RsrII	CG!GWCCG	1	4453
Rsr2I	CG!GWCCG	1	4453
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	1	2049
SapI	!NNNNGAAGAGC	2	4281; 4491
SaqAI	T!TAA	18	7; 629; 854; 2393; 2638; 2699; 2820; 2841; 2852; 2864; 2875; 2892; 2990; 3261; 5080; 5094; 5099; 5151
SatI	GC!NGC	42	759; 810; 954; 1071; 1252; 1373; 1595; 1616; 1619; 1985; 2040; 2115; 2237; 2282; 2714; 3233; 3255; 3269; 3707; 3846; 3898; 3909; 3999; 4004; 4041; 4082; 4169; 4172; 4175; 4411; 4507; 4548; 4562; 4676; 5015; 5030; 5241; 5447; 5450; 5515; 5658; 5813
Sau96I	G!GNCC	19	83; 276; 760; 1003; 1095; 1116; 1200; 1706; 1750; 1810; 2210; 2471; 2550; 3044; 4453; 4898; 4944; 5002; 5035
Sau3AI	!GATC	24	585; 1124; 1150; 1330; 1348; 2572; 2581; 2594; 3774; 3778; 3797; 4108; 4186; 4267; 4276; 4354; 4730; 4746; 5105; 5117; 5195; 5203; 5214; 5289
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	5	899; 1935; 2024; 2989; 3421
SchI	!NNNNNGACTC	5	404; 1319; 2996; 4602; 5479
SciI	CTC!GAG	1	2014
ScrFI	CC!NGG	30	90; 283; 787; 836; 931; 946; 1075; 1184; 1353; 1635; 1748; 2106; 2119; 2198; 2209; 2405; 2498; 3473; 3528; 3545; 3941; 4101; 4324; 4714; 4903; 5006; 5478; 5696; 5709; 5830
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	7	1041; 1708; 2553; 3515; 3587; 3756; 5698
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	3	2025; 4092; 4577
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	13	667; 694; 727; 2055; 2304; 3128; 3883; 3976; 4050; 4240; 4302; 5012; 5545
SelI	!CGCG	15	58; 2823; 2859; 3235; 3255; 3279; 3310; 4001; 4302; 4740; 4824; 4887; 4956; 5229; 5810
SetI	ASST!	94	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; 1383; 1473; 1533; 1543; 1596; 1653; 1664; 1689; 1694; 1711; 1749; 1755; 1833; 1881; 1920; 1945; 2037; 2095; 2147; 2168; 2219; 2241; 2250; 2265; 2353; 2456; 2481; 2627; 2648; 2657; 2669; 2718; 2885; 3000; 3012; 3055; 3092; 3142; 3165; 3289; 3437; 3532; 3725; 3838; 3966; 4045; 4056; 4128; 4199; 4243; 4503; 4649; 4693; 5024; 5055; 5114; 5157; 5300; 5321; 5420; 5557; 5572; 5591; 5603; 5647; 5693; 5744
SexAI	A!CCWGGT	1	3526
SfaAI	GCGAT!CGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SfaNI	GCATCNNNNN!	8	848; 1868; 2753; 3516; 3588; 4236; 4300; 4575
SfaNI	!NNNNNNNNNGATGC	7	357; 1001; 1169; 3895; 4150; 4366; 5758
SfcI	C!TRYAG	6	1376; 2174; 2352; 3272; 5399; 5590
SfiI	GGCCNNNN!NGGCC	1	3712
SfoI	GGC!GCC	1	3938
Sfr274I	C!TCGAG	1	2012
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	1	4619
SgeI	CNNGNNNNNNNNN!	234	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; 1358; 1400; 1419; 1442; 1483; 1540; 1556; 1578; 1592; 1624; 1646; 1663; 1731; 1747; 1760; 1810; 1826; 1840; 1868; 1891; 1935; 1961; 1991; 2005; 2024; 2037; 2060; 2079; 2102; 2117; 2130; 2152; 2175; 2205; 2220; 2261; 2297; 2326; 2340; 2382; 2410; 2445; 2463; 2499; 2526; 2553; 2566; 2591; 2644; 2673; 2715; 2798; 2836; 2872; 2956; 2978; 3010; 3047; 3065; 3084; 3099; 3141; 3158; 3175; 3210; 3224; 3241; 3263; 3287; 3311; 3376; 3390; 3428; 3444; 3484; 3497; 3516; 3539; 3556; 3569; 3588; 3618; 3639; 3656; 3679; 3714; 3741; 3772; 3794; 3820; 3842; 3861; 3889; 3925; 3944; 3967; 3981; 4001; 4014; 4028; 4047; 4061; 4080; 4112; 4126; 4139; 4165; 4196; 4209; 4226; 4243; 4257; 4274; 4292; 4307; 4335; 4351; 4370; 4392; 4408; 4431; 4450; 4475; 4494; 4514; 4541; 4565; 4598; 4617; 4645; 4659; 4725; 4749; 4764; 4787; 4808; 4825; 4873; 4900; 4914; 4943; 4967; 5000; 5017; 5037; 5050; 5063; 5121; 5148; 5167; 5197; 5222; 5242; 5256; 5281; 5299; 5336; 5374; 5403; 5431; 5445; 5465; 5480; 5501; 5515; 5534; 5552; 5568; 5608; 5628; 5655; 5673; 5694; 5707; 5720; 5737; 5761; 5784; 5816; 5841; 5868; 5890
SgeI	!NNNNNNNNNNNNNCNNG	204	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; 1332; 1374; 1393; 1416; 1457; 1514; 1552; 1577; 1598; 1620; 1637; 1705; 1733; 1784; 1814; 1842; 1865; 1909; 1935; 1965; 1983; 2000; 2022; 2053; 2076; 2104; 2126; 2149; 2179; 2200; 2235; 2271; 2300; 2356; 2384; 2419; 2437; 2473; 2500; 2527; 2565; 2618; 2647; 2689; 2772; 2810; 2846; 2930; 2952; 2984; 3021; 3039; 3058; 3115; 3132; 3149; 3184; 3202; 3222; 3242; 3261; 3285; 3350; 3402; 3458; 3490; 3513; 3530; 3562; 3592; 3613; 3630; 3653; 3688; 3715; 3746; 3768; 3794; 3816; 3835; 3863; 3899; 3918; 3941; 3962; 3980; 3997; 4021; 4054; 4086; 4113; 4139; 4170; 4200; 4217; 4243; 4266; 4287; 4309; 4329; 4349; 4366; 4405; 4424; 4449; 4468; 4488; 4515; 4539; 4572; 4591; 4619; 4641; 4699; 4723; 4742; 4761; 4782; 4799; 4847; 4874; 4894; 4917; 4941; 4974; 4991; 5011; 5037; 5095; 5122; 5141; 5171; 5196; 5216; 5255; 5273; 5310; 5348; 5377; 5405; 5426; 5454; 5475; 5508; 5526; 5582; 5602; 5629; 5647; 5668; 5694; 5711; 5735; 5758; 5790; 5815; 5842; 5864; 5893
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	5	27; 2471; 3084; 4871; 5664
SimI	!GACCC	4	106; 4365; 4933; 5181
SinI	G!GWCC	7	1200; 1706; 1750; 1810; 2471; 4453; 4898
SlaI	C!TCGAG	1	2012
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	365; 613; 643; 4374
SmlI	C!TYRAG	8	1135; 1174; 1923; 2012; 4328; 5210; 5487; 5749
SmoI	C!TYRAG	8	1135; 1174; 1923; 2012; 4328; 5210; 5487; 5749
SmuI	CCCGCNNNN!	11	93; 119; 286; 1068; 1170; 1415; 3259; 3614; 3635; 4831; 4963
SmuI	!NNNNNNNGCGGG	6	1105; 3190; 4060; 4597; 4735; 4882
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3507; 3579; 4342

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 1676; 2687; 2751; 2829; 2855; 2866; 3513; 3585; 3677; 5095
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	3	1039; 1638; 3758
SsiI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1343; 1408; 2040; 2115; 2311; 3252; 3255; 3269; 3359; 3607; 3619; 3628; 3640; 3650; 3661; 3707; 3846; 3909; 4411; 4456; 4522; 4548; 4673; 4676; 4824; 4956; 5263; 5407; 5903
SsiI	G!CGG	27	370; 403; 528; 758; 1070; 1112; 1704; 3197; 3224; 3312; 3422; 4003; 4067; 4168; 4171; 4451; 4506; 4604; 4742; 4889; 5029; 5272; 5517; 5638; 5657; 5784; 5812
SspI	AAT!ATT	3	2391; 2845; 3398
SspDI	G!GCGCC	1	3936
SspD5I	GGTGANNNNNNNN!	7	376; 627; 996; 1306; 2121; 5008; 5124
SspD5I	!NNNNNNNNNTCACC	3	884; 3053; 4114
SstI	GAGCT!C	0	
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	929
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	21	92; 118; 285; 851; 1067; 1169; 1190; 1359; 1414; 3136; 3258; 3613; 3634; 3947; 4350; 4489; 4560; 4830; 4962; 5192; 5630
Sth132I	!NNNNNNNNCCGGG	22	15; 407; 470; 827; 900; 1104; 2200; 3137; 3189; 3290; 4017; 4059; 4092; 4596; 4705; 4734; 4881; 4985; 5016; 5469; 5513; 5721
Sth302II	CC!GG	24	602; 836; 1185; 1323; 1354; 2209; 2286; 2580; 3156; 3843; 3920; 3942; 3970; 4101; 4191; 4258; 4439; 4714; 4722; 4814; 5288; 5478; 5504; 5651
StrI	C!TCGAG	1	2012
StsI	GGATGNNNNNNNNNN!	7	1909; 2014; 2421; 3805; 4262; 4287; 4741
StsI	!NNNNNNNNNNNNNNNNCATCC	5	680; 768; 825; 1700; 3609
StuI	AGG!CCT	3	1039; 1638; 3758
StyI	C!CWGGG	10	360; 611; 2162; 2213; 2381; 2450; 3666; 3759; 4369; 4774
StyD4I	!CCNGG	30	88; 281; 785; 834; 929; 944; 1073; 1182; 1351; 1633; 1746; 2104; 2117; 2196; 2207; 2403; 2496; 3471; 3526; 3543; 3939; 4099; 4322; 4712; 4901; 5004; 5476; 5694; 5707; 5828
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	17	76; 198; 269; 543; 581; 669; 1770; 2130; 2356; 3028; 4317; 4433; 4541; 4864; 5355; 5825; 5896
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 971; 1199; 1247; 1664; 3000; 3012; 3055; 3165; 4056; 4243; 5024; 5157
TaqI	T!CGA	16	752; 779; 1247; 1489; 2013; 3086; 3777; 4050; 4206; 4230; 4266; 4428; 4619; 4664; 4919; 5757
TaqII	GACCGANNNNNNNNNN!	3	2957; 3974; 4642
TaqII	!NNNNNNNNNTCGGTC	1	4886
TaqII	CACCCANNNNNNNNNN!	1	742
TaqII	!NNNNNNNNNTGGGTG	3	172; 3841; 4433
TasI	!AATT	11	18; 1676; 2687; 2751; 2829; 2855; 2866; 3513; 3585; 3677; 5095
TatI	W!GTACW	5	217; 297; 330; 381; 653
TauI	GCSG!C	19	761; 1073; 2042; 2117; 3257; 3271; 3709; 3848; 3911; 4006; 4171; 4174; 4413; 4509; 4550; 4678; 5032; 5660; 5815
TfiI	G!AWTC	8	740; 1217; 2424; 4422; 4556; 4666; 4703; 5881
TliI	C!TCGAG	1	2012
Tru1I	T!TAA	18	7; 629; 854; 2393; 2638; 2699; 2820; 2841; 2852; 2864; 2875; 2892; 2990; 3261; 5080; 5094; 5099; 5151
Tru9I	T!TAA	18	7; 629; 854; 2393; 2638; 2699; 2820; 2841; 2852; 2864; 2875; 2892; 2990; 3261; 5080; 5094; 5099; 5151
TscAI	CASTGNN!	9	1592; 1629; 1812; 1983; 2783; 4066; 5176; 5447; 5460
TseI	G!CWGC	23	809; 953; 1251; 1372; 1594; 1615; 1618; 1984; 2236; 2281; 2713; 3232; 3897; 3998; 4040; 4081; 4174; 4561; 5014; 5240; 5446; 5449; 5514
TsoI	TARCCANNNNNNNNNN!	2	2909; 3256
TsoI	!NNNNNNNNNTGGYTA	3	778; 2714; 4466
Tsp45I	!GTSAC	7	891; 1087; 1383; 2271; 3226; 4057; 4363
Tsp509I	!AATT	11	18; 1676; 2687; 2751; 2829; 2855; 2866; 3513; 3585; 3677; 5095

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspDI	ATGAANNNNNNNNNNN!	4	661; 2695; 3996; 4700
TspDI	!NNNNNNNNNTTCAT	7	26; 789; 810; 1715; 4414; 4870; 5077
TspEI	!AATT	11	18; 1676; 2687; 2751; 2829; 2855; 2866; 3513; 3585; 3677; 5095
TspGWI	ACGGANNNNNNNNNNN!	1	4812
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	9	1592; 1629; 1812; 1983; 2783; 4066; 5176; 5447; 5460
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	4055
Tth111II	CAARCANNNNNNNNNNN!	5	841; 1428; 2203; 2503; 5264
Tth111II	!NNNNNNNNNTGYTTG	3	4372; 5232; 5271
UnbI	!GGNCC	19	82; 275; 759; 1002; 1094; 1115; 1199; 1705; 1749; 1809; 2209; 2470; 2549; 3043; 4452; 4897; 4943; 5001; 5034
Van9II	CCANNNN!NTGG	1	1209
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	3	690; 2300; 5541
VpaK11AI	!GGWCC	7	1199; 1705; 1749; 1809; 2470; 4452; 4897
VpaK11BI	G!GWCC	7	1200; 1706; 1750; 1810; 2471; 4453; 4898
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	2	2201; 2501
XapI	R!AATY	3	2751; 2855; 2866
XbaI	T!CTAGA	1	2584
XceI	RCATG!Y	7	642; 1088; 2401; 3507; 3579; 4342; 5859
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	2012
XhoII	R!GATCY	13	585; 1150; 1330; 1348; 2572; 2581; 4108; 4354; 4746; 5105; 5117; 5203; 5214
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3759; 4774
XmiI	GT!MKAC	1	1190
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	10	592; 2036; 2090; 2585; 2786; 3204; 3760; 4775; 5109; 5362
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3509; 3581; 5912