

pFusionRed-tubulin vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2879; 3084
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	3167; 4123; 5912
AatI	AGG!CCT	3	1039; 2533; 3917
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	3	1190; 1577; 1985
AccII	CG!CG	15	60; 2984; 3020; 3396; 3416; 3440; 3471; 4162; 4463; 4901; 4985; 5048; 5117; 5390; 5971
AccIII	T!CCGGA	1	1321
Acc16I	TGC!GCA	1	4198
Acc36I	ACCTGCNNNN!	2	4364; 4814
Acc36I	!NNNNNNNNGCAGGT	1	3983
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	10	465; 664; 724; 1615; 2151; 2411; 2460; 3249; 4095; 4130
AccB7I	CCANNNN!NTGG	2	1209; 2403
AccBSI	CCG!CTC	2	3520; 4709
AccBSI	GAG!CGG	2	3356; 4763
AceIII	CAGCTCNNNNNNN!	3	1639; 1657; 3052
AceIII	!NNNNNNNNNNGAGCTG	3	552; 610; 2480
AciI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1623; 2058; 2163; 3411; 3414; 3428; 3518; 3766; 3778; 3787; 3799; 3809; 3820; 3866; 4005; 4068; 4570; 4615; 4681; 4707; 4832; 4835; 4983; 5115; 5422; 5566; 6062
AciI	G!CGG	29	370; 403; 528; 758; 1070; 1112; 1340; 1361; 1367; 3356; 3383; 3471; 3581; 4162; 4226; 4327; 4330; 4610; 4665; 4763; 4901; 5048; 5188; 5431; 5676; 5797; 5816; 5943; 5971
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	2739; 2748; 3964; 4275; 4521; 4913; 5272; 5370; 5456
AclWI	!NNNNNGATCC	7	580; 1145; 2726; 4340; 4884; 5271; 5368
AccI	Y!GGCCR	9	1268; 1401; 1473; 2180; 2477; 4002; 4176; 4567; 4594
AcsI	R!AATY	5	1736; 2134; 2910; 3014; 3025
AcuI	CTGAAGNNNNNNNNNNNNNNN!	3	1120; 4242; 4674
AcuI	!NNNNNNNNNNNNNCTTCAG	3	1515; 1753; 5472
AcvI	CAC!GTG	1	1557
AcyI	GR!CGYC	8	122; 175; 258; 444; 1187; 4096; 4798; 4877
AdeI	CACNNN!GTG	2	1260; 3212
AfaI	GT!AC	13	219; 244; 299; 332; 383; 540; 655; 805; 1057; 2329; 2486; 2596; 4402
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	26	49; 721; 1000; 1066; 1209; 1728; 1833; 2299; 2403; 2481; 2661; 3108; 3434; 3826; 4077; 4621; 4902; 4934; 5066; 5101; 5151; 5183; 5536; 5815; 5981; 5999
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	2	2982; 6014
AgeI	A!CCGGT	2	600; 1762
AgsI	TTS!AA	9	687; 1521; 2427; 2695; 3507; 3551; 3561; 3974; 5550
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	2340
AjnI	!CCWGG	24	88; 281; 785; 929; 944; 1073; 1403; 1448; 1898; 1955; 2147; 2463; 2474; 2533; 2543; 3630; 3685; 3702; 4481; 5060; 5163; 5853; 5866; 5987
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	1	1861

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	CCAANNNNNNNNTTCNNNNNNNNNNNN!	1	1893
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	2	613; 2458
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	3	1573; 3670; 3742
AlfI	!NNNNNNNNNGCANNNNNNNTGC	3	1539; 3636; 3708
AloI	GAACNNNNNNNTTCNNNNNNNNNNNN!	2	1477; 3178
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	2	1445; 3146
AluI	AG!CT	25	566; 624; 651; 797; 1104; 1440; 1629; 1647; 1746; 1793; 1872; 1912; 2229; 2494; 2875; 3042; 3299; 3594; 3882; 4202; 4660; 5457; 5714; 5760; 5850
AluBI	AG!CT	25	566; 624; 651; 797; 1104; 1440; 1629; 1647; 1746; 1793; 1872; 1912; 2229; 2494; 2875; 3042; 3299; 3594; 3882; 4202; 4660; 5457; 5714; 5760; 5850
AlwI	GGATCNNNN!	9	2739; 2748; 3964; 4275; 4521; 4913; 5272; 5370; 5456
AlwI	!NNNNNGATCC	7	580; 1145; 2726; 4340; 4884; 5271; 5368
Alw21I	GWGCW!C	7	694; 1442; 1762; 1964; 4209; 4399; 5704
Alw26I	GTCTCN!	2	434; 1846
Alw26I	!NNNNNGAGAC	9	1042; 1132; 1231; 1531; 2465; 3520; 3938; 4957; 5085
Alw44I	G!TGCAC	3	690; 1758; 5700
AlwNI	CAGNNN!CTG	2	5197; 5605
Ama87I	C!YCGRG	2	1562; 1685
Aor13HI	T!CCGGA	1	1321
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	4	1431; 3664; 3736; 5198
ApaLI	G!TGCAC	3	690; 1758; 5700
ApeKI	G!CWGC	24	809; 953; 1251; 1337; 1349; 1644; 1669; 2318; 2362; 2390; 2650; 2872; 3391; 4056; 4157; 4199; 4240; 4333; 4720; 5173; 5399; 5605; 5608; 5673
ApoI	R!AATY	5	1736; 2134; 2910; 3014; 3025
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	4611
ApyPI	!NNNNNNNNNNNNNNNNNGTTCGAT	3	4405; 5058; 5896
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	4495
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	785
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	4	1338; 1530; 2696; 3924
AquIII	!NNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	2	2639; 2732
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	4666
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	1	2571
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	1	2539
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	25	586; 1125; 1151; 1331; 1713; 2244; 2732; 2741; 2754; 3934; 3938; 3957; 4268; 4346; 4427; 4436; 4514; 4890; 4906; 5265; 5277; 5355; 5363; 5374; 5449
AsiGI	A!CCGGT	2	600; 1762
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4214
Asp700I	GAANN!NNTTC	1	1809
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3918; 4933
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	27	597; 1084; 1291; 1354; 1546; 2036; 2390; 3362; 3370; 3396; 3418; 3427; 3440; 3471; 4090; 4098; 4162; 4199; 4465; 4725; 4901; 4987; 5390; 5499; 5673; 5773; 5840
AspS9I	G!GNCC	16	83; 276; 760; 1003; 1095; 1116; 1200; 1731; 2547; 2634; 3203; 4612; 5057; 5103; 5161; 5194
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	4778
AsuC2I	CC!SGG	7	836; 1184; 1564; 4100; 4260; 4873; 5637
AsuHPI	GGTGANNNNNNNN!	10	376; 627; 996; 1306; 2292; 2347; 2614; 2716; 5167; 5283
AsuHPI	!NNNNNNNTCACC	6	885; 1812; 1932; 2238; 3213; 4274

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AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	1562; 1685
AvaII	G!GWCC	5	1200; 1731; 2547; 4612; 5057
AviII	TGC!GCA	1	4198
AvrII	C!CTAGG	2	3918; 4933
AxyI	CC!TNAGG	3	869; 3576; 5208
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNGRTACNNNNNGT	1	2586
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	1	2619
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	11	667; 694; 727; 1562; 1694; 1762; 2156; 2416; 4042; 4135; 5704
BalI	TGG!CCA	6	1270; 1403; 1475; 2182; 2479; 4178
BamHI	G!GATCC	1	2731
BanI	G!GYRCC	10	465; 664; 724; 1615; 2151; 2411; 2460; 3249; 4095; 4130
BanII	GRGCY!C	7	1442; 1925; 2115; 2541; 3287; 4461; 5171
BanIII	AT!CGAT	1	3936
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	2	1209; 2403
BauI	C!ACGAG	3	1255; 4814; 5841
BauI	C!TCGTG	2	1105; 4688
BbeI	GGCGC!C	1	4099
Bbr7I	GAAGACNNNNNN!	1	916
Bbr7I	!NNNNNNNNNNGTCTTC	1	1754
BbrPI	CAC!GTG	1	1557
BbsI	GAAGACNN!	1	911
BbsI	!NNNNNNGTCTTC	1	1759
BbuI	GCATG!C	4	2505; 3666; 3738; 4501
BbvI	GCAGCNNNNNN!	11	821; 1263; 1349; 1656; 2402; 2884; 4169; 4211; 4732; 5185; 5685
BbvI	!NNNNNNNNNNGCTGC	11	940; 1656; 2305; 2349; 2637; 3378; 4043; 4227; 4320; 5386; 5592
Bbv12I	GWGCW!C	7	694; 1442; 1762; 1964; 4209; 4399; 5704
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	1	2528
BccI	CCATCNNNN!	9	1399; 1942; 2005; 2092; 2383; 3226; 3790; 4316; 4818
BccI	!NNNNNGATGG	8	1291; 1465; 2101; 2271; 2604; 3194; 3974; 4402
BceAI	ACGGCNNNNNNNNNN!	7	822; 966; 1017; 1083; 1473; 4522; 5009
BceAI	!NNNNNNNNNNGCCGT	3	3237; 4055; 5514
BceFI	ACGGCNNNNNNNNNN!	7	822; 966; 1017; 1083; 1473; 4522; 5009
BceFI	!NNNNNNNNNNGCCGT	3	3238; 4056; 5515
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNN!	3	3525; 4315; 5816
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2753
BcnI	CC!SGG	7	836; 1184; 1564; 4100; 4260; 4873; 5637
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNN!	2	2776; 5949
BdaI	!NNNNNNNNNTGANNNNNNTCA	2	2742; 5915
BfaI	C!TAG	8	592; 2744; 2945; 3363; 3919; 4934; 5268; 5521
BfiI	ACTGGGNNNN!	1	4045
BfiI	!NNNCCCAGT	2	289; 3797
BfmI	C!TRYAG	5	1913; 2234; 3431; 5558; 5749
BfoI	RGCGC!Y	8	598; 1292; 1547; 2037; 3363; 3371; 4099; 5774
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNN!	3	3525; 4315; 5816
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4364; 4814
BfuAI	!NNNNNNNNGCAGGT	1	3983

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BfuCI	!GATC	25	585; 1124; 1150; 1330; 1712; 2243; 2731; 2740; 2753; 3933; 3937; 3956; 4267; 4345; 4426; 4435; 4513; 4889; 4905; 5264; 5276; 5354; 5362; 5373; 5448
BglI	GCCNNNN!NGGC	6	90; 212; 283; 1079; 2420; 3871
BglII	A!GATCT	1	1330
BisI	GC!NGC	41	759; 810; 954; 1071; 1252; 1338; 1350; 1645; 1670; 2319; 2363; 2391; 2651; 2873; 3392; 3414; 3428; 3866; 4005; 4057; 4068; 4158; 4163; 4200; 4241; 4328; 4331; 4334; 4570; 4666; 4707; 4721; 4835; 5174; 5189; 5400; 5606; 5609; 5674; 5817; 5972
BlnI	C!CTAGG	2	3918; 4933
BlpI	GC!TNAGC	1	2506
BlsI	GCN!GC	41	760; 811; 955; 1072; 1253; 1339; 1351; 1646; 1671; 2320; 2364; 2392; 2652; 2874; 3393; 3415; 3429; 3867; 4006; 4058; 4069; 4159; 4164; 4201; 4242; 4329; 4332; 4335; 4571; 4667; 4708; 4722; 4836; 5175; 5190; 5401; 5607; 5610; 5675; 5818; 5973
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	5	1200; 1731; 2547; 4612; 5057
Bme1390I	CC!NGG	31	90; 283; 787; 836; 931; 946; 1075; 1184; 1405; 1450; 1564; 1900; 1957; 2149; 2465; 2476; 2535; 2545; 3632; 3687; 3704; 4100; 4260; 4483; 4873; 5062; 5165; 5637; 5855; 5868; 5989
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	1562; 1685
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	2340
BmgT120I	GG!NCC	16	84; 277; 761; 1004; 1096; 1117; 1201; 1732; 2548; 2635; 3204; 4613; 5058; 5104; 5162; 5195
BmiI	GGN!NCC	26	467; 666; 726; 1117; 1320; 1586; 1617; 2112; 2153; 2345; 2413; 2462; 2733; 3251; 3272; 3284; 3475; 3636; 3708; 4097; 4132; 4980; 5059; 5104; 5947; 5986
BmrI	ACTGGGNNNNN!	1	4045
BmrI	!NNNNCCCAGT	2	289; 3797
BmrFI	CC!NGG	31	90; 283; 787; 836; 931; 946; 1075; 1184; 1405; 1450; 1564; 1900; 1957; 2149; 2465; 2476; 2535; 2545; 3632; 3687; 3704; 4100; 4260; 4483; 4873; 5062; 5165; 5637; 5855; 5868; 5989
BmsI	GCATCNNNNN!	13	848; 1363; 1394; 1469; 2174; 2402; 2444; 2912; 3675; 3747; 4395; 4459; 4734
BmsI	!NNNNNNNNNGATGC	9	357; 1001; 1169; 1469; 1656; 4054; 4309; 4525; 5917
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	4045
BmuI	!NNNNCCCAGT	2	289; 3797
BoxI	GACNN!NNGTC	2	1243; 2009
BpiI	GAAGACNN!	1	911
BpiI	!NNNNNGTCTTC	1	1759
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	3	1404; 3885; 4784
BpI	!NNNNNNNNNGAGNNNNNCTC	3	1372; 3853; 4752
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	1894; 1978; 4936
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	928; 4879
Bpu10I	CC!TNAGC	1	1640
Bpu10I	GC!TNAGG	1	2528
Bpu14I	TT!CGAA	1	4778
Bpu1102I	GC!TNAGC	1	2506
BpuAI	GAAGACNN!	1	911
BpuAI	!NNNNNGTCTTC	1	1759
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	4	1156; 2677; 5390; 5929
BpuEI	!NNNNNNNNNNNNNCTCAAG	3	1159; 4472; 5631
BpuMI	CC!SGG	7	836; 1184; 1564; 4100; 4260; 4873; 5637
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	4	1132; 1231; 2465; 5085
Bsa29I	AT!CGAT	1	3936
BsaAI	YAC!GTR	5	340; 1557; 2598; 3212; 4400
BsaBI	GATNN!NNATC	2	2758; 3955
BsaHI	GR!CGYC	8	122; 175; 258; 444; 1187; 4096; 4798; 4877

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BsaJI	C!CNGGG	26	360; 611; 698; 929; 1561; 1686; 1898; 1955; 2298; 2331; 2480; 2534; 3630; 3702; 3825; 3860; 3869; 3918; 4259; 4528; 4933; 5060; 5061; 5163; 5164; 5854
BsaMI	GAATGCN!	1	2847
BsaMI	G!CATTC	1	2940
BsaWI	W!CCGGW	8	600; 1321; 1762; 2737; 4127; 4971; 5661; 5808
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	3176
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	3146
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	2	1547; 2537
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	3	1706; 3097; 5004
Bsc4I	CCNNNNN!NNGG	26	49; 721; 1000; 1066; 1209; 1728; 1833; 2299; 2403; 2481; 2661; 3108; 3434; 3826; 4077; 4621; 4902; 4934; 5066; 5101; 5151; 5183; 5536; 5815; 5981; 5999
BscAI	GCATCNNNN!	13	847; 1362; 1393; 1468; 2173; 2401; 2443; 2911; 3674; 3746; 4394; 4458; 4733
BscAI	!NNNNNGATGC	9	360; 1004; 1172; 1472; 1659; 4057; 4312; 4528; 5920
BseI	ACTGGN!	9	1214; 1287; 1617; 1812; 2424; 2596; 4040; 4241; 5487
BseI	C!CAGT	7	295; 1755; 2397; 3125; 3803; 5599; 5612
Bse8I	GATNN!NNATC	2	2758; 3955
Bse2II	CC!TNAGG	3	869; 3576; 5208
Bse118I	R!CCGGY	6	600; 1762; 3313; 4415; 4596; 4879
BseAI	T!CCGGA	1	1321
BseBI	CC!WGG	24	90; 283; 787; 931; 946; 1075; 1405; 1450; 1900; 1957; 2149; 2465; 2476; 2535; 2545; 3632; 3687; 3704; 4483; 5062; 5165; 5855; 5868; 5989
BseCI	AT!CGAT	1	3936
BseDI	C!CNGGG	26	360; 611; 698; 929; 1561; 1686; 1898; 1955; 2298; 2331; 2480; 2534; 3630; 3702; 3825; 3860; 3869; 3918; 4259; 4528; 4933; 5060; 5061; 5163; 5164; 5854
Bse3DI	GCAATGNN!	2	1431; 4329
Bse3DI	!CATTGC	2	2366; 2522
BseGI	GGATGNN!	5	2615; 3956; 4413; 4438; 4892
BseGI	!CATCC	10	694; 782; 839; 1354; 1391; 1460; 1934; 2165; 2393; 3782
BseJI	GATNN!NNATC	2	2758; 3955
BseLI	CCNNNNN!NNGG	26	49; 721; 1000; 1066; 1209; 1728; 1833; 2299; 2403; 2481; 2661; 3108; 3434; 3826; 4077; 4621; 4902; 4934; 5066; 5101; 5151; 5183; 5536; 5815; 5981; 5999
BseMI	GCAATGNN!	2	1431; 4329
BseMI	!CATTGC	2	2366; 2522
BseMII	CTCAGNNNNNNNNNN!	3	1341; 1859; 5222
BseMII	!NNNNNNNNCTGAG	11	860; 1631; 2089; 2198; 2497; 2519; 3567; 3869; 4750; 5322; 5731
BseNI	ACTGGN!	9	1214; 1287; 1617; 1812; 2424; 2596; 4040; 4241; 5487
BseNI	C!CAGT	7	295; 1755; 2397; 3125; 3803; 5599; 5612
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	4	1328; 1520; 2686; 3914
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	11	667; 694; 727; 1562; 1694; 1762; 2156; 2416; 4042; 4135; 5704
BseXI	GCAGCNNNNNNNN!	11	821; 1263; 1349; 1656; 2402; 2884; 4169; 4211; 4732; 5185; 5685
BseXI	!NNNNNNNNNNNGCTGC	11	940; 1656; 2305; 2349; 2637; 3378; 4043; 4227; 4320; 5386; 5592
BseX3I	C!GGCCG	1	4002
BseYI	C!CCAGC	5	993; 1890; 3639; 3711; 5710
BseYI	G!CTGGG	3	1031; 1433; 4600
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	15	60; 2984; 3020; 3396; 3416; 3440; 3471; 4162; 4463; 4901; 4985; 5048; 5117; 5390; 5971
Bsh1285I	CGRY!CG	3	605; 4005; 5680
BshFI	GG!CC	34	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1403; 1475; 1996; 2182; 2479; 2533; 2635; 3062; 3204; 3859; 3865; 3874; 3917; 4004; 4178; 4569; 4596; 5105; 5162; 5195; 5540; 5974; 5992; 6003
BshNI	G!GYRCC	10	465; 664; 724; 1615; 2151; 2411; 2460; 3249; 4095; 4130

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BshTI	A!CCGGT	2	600; 1762
BshVI	AT!CGAT	1	3936
BsiEI	CGRY!CG	3	605; 4005; 5680
BsiHKAI	GWGCW!C	7	694; 1442; 1762; 1964; 4209; 4399; 5704
BsiHKCI	C!YCGRG	2	1562; 1685
BsiSI	C!CGG	24	601; 835; 1184; 1322; 1358; 1563; 1763; 2738; 3314; 4001; 4078; 4100; 4128; 4259; 4349; 4416; 4597; 4872; 4880; 4972; 5446; 5636; 5662; 5809
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	26	49; 721; 1000; 1066; 1209; 1728; 1833; 2299; 2403; 2481; 2661; 3108; 3434; 3826; 4077; 4621; 4902; 4934; 5066; 5101; 5151; 5183; 5536; 5815; 5981; 5999
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4247; 4779; 4888
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3612; 3684; 3748; 5043
BsmI	GAATGCN!	1	2847
BsmI	G!CATTC	1	2940
BsmAI	GTCTCN!	2	434; 1846
BsmAI	!NNNNNGAGAC	9	1042; 1132; 1231; 1531; 2465; 3520; 3938; 4957; 5085
BsmBI	CGTCTCN!	1	1846
BsmBI	!NNNNNGAGACG	2	1042; 1531
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4247; 4779; 4888
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3612; 3684; 3748; 5043
BsnI	GG!CC	34	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1403; 1475; 1996; 2182; 2479; 2533; 2635; 3062; 3204; 3859; 3865; 3874; 3917; 4004; 4178; 4569; 4596; 5105; 5162; 5195; 5540; 5974; 5992; 6003
Bso3II	GGTCTCN!	0	
Bso3II	!NNNNNGAGACC	4	1132; 1231; 2465; 5085
BsoBI	C!YCGRG	2	1562; 1685
Bsp13I	T!CCGGA	1	1321
Bsp19I	C!CATGG	5	360; 611; 2298; 3825; 4528
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	3	289; 1562; 4899
Bsp24I	!NNNNNNCCANNNNNNGTC	3	2062; 5320; 5498
Bsp24I	CCANNNNNNGTCNNNNNNNNNN!	3	2094; 5352; 5530
Bsp24I	!NNNNNNNGACNNNNNTGG	3	257; 1530; 4867
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4778
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	25	585; 1124; 1150; 1330; 1712; 2243; 2731; 2740; 2753; 3933; 3937; 3956; 4267; 4345; 4426; 4435; 4513; 4889; 4905; 5264; 5276; 5354; 5362; 5373; 5448
Bsp1286I	GDGCH!C	21	667; 694; 727; 1442; 1562; 1694; 1762; 1925; 1964; 2115; 2156; 2416; 2541; 3287; 4042; 4135; 4209; 4399; 4461; 5171; 5704
Bsp1407I	T!GTACA	1	653
Bsp1720I	GC!TNAGC	1	2506
BspACI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1623; 2058; 2163; 3411; 3414; 3428; 3518; 3766; 3778; 3787; 3799; 3809; 3820; 3866; 4005; 4068; 4570; 4615; 4681; 4707; 4832; 4835; 4983; 5115; 5422; 5566; 6062
BspACI	G!CGG	29	370; 403; 528; 758; 1070; 1112; 1340; 1361; 1367; 3356; 3383; 3471; 3581; 4162; 4226; 4327; 4330; 4610; 4665; 4763; 4901; 5048; 5188; 5431; 5676; 5797; 5816; 5943; 5971
BspCNI	CTCAGNNNNNNNN!	3	1340; 1858; 5221
BspCNI	!NNNNNNCTGAG	11	861; 1632; 2090; 2199; 2498; 2520; 3568; 3870; 4751; 5323; 5732
BspDI	AT!CGAT	1	3936
BspD6I	GACTCNNNN!	6	418; 1333; 1521; 3169; 4775; 5652
BspD6I	!NNNNNGAGTC	3	883; 3132; 3564
BspEI	T!CCGGA	1	1321
BspFNI	CG!CG	15	60; 2984; 3020; 3396; 3416; 3440; 3471; 4162; 4463; 4901; 4985; 5048; 5117; 5390; 5971
BspHI	T!CATGA	2	3522; 5294
BspLI	GGN!NCC	26	467; 666; 726; 1117; 1320; 1586; 1617; 2112; 2153; 2345; 2413; 2462; 2733; 3251; 3272; 3284; 3475; 3636; 3708; 4097; 4132; 4980; 5059; 5104; 5947; 5986
BspMI	ACCTGCNNNN!	2	4364; 4814

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspMI	!NNNNNNNGCAGGT	1	3983
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	2739; 2748; 3964; 4275; 4521; 4913; 5272; 5370; 5456
BspPI	!NNNNNGATCC	7	580; 1145; 2726; 4340; 4884; 5271; 5368
BspQI	GCTCTTCN!	1	1636
BspQI	!NNNNGAAGAGC	2	4440; 4650
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4778
BspT107I	G!GYRCC	10	465; 664; 724; 1615; 2151; 2411; 2460; 3249; 4095; 4130
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	4	1132; 1231; 2465; 5085
BsrI	ACTGGN!	9	1214; 1287; 1617; 1812; 2424; 2596; 4040; 4241; 5487
BsrI	C!CAGT	7	295; 1755; 2397; 3125; 3803; 5599; 5612
BsrBI	CCG!CTC	2	3520; 4709
BsrBI	GAG!CGG	2	3356; 4763
BsrDI	GCAATGNN!	2	1431; 4329
BsrDI	!CATTGC	2	2366; 2522
BsrFI	R!CCGGY	6	600; 1762; 3313; 4415; 4596; 4879
BsrGI	T!GTACA	1	653
BsrSI	ACTGGN!	9	1214; 1287; 1617; 1812; 2424; 2596; 4040; 4241; 5487
BsrSI	C!CAGT	7	295; 1755; 2397; 3125; 3803; 5599; 5612
BssAI	R!CCGGY	6	600; 1762; 3313; 4415; 4596; 4879
BssECI	C!CNNGG	26	360; 611; 698; 929; 1561; 1686; 1898; 1955; 2298; 2331; 2480; 2534; 3630; 3702; 3825; 3860; 3869; 3918; 4259; 4528; 4933; 5060; 5061; 5163; 5164; 5854
BssHII	G!CGCGC	0	
BssKI	!CCNGG	31	88; 281; 785; 834; 929; 944; 1073; 1182; 1403; 1448; 1562; 1898; 1955; 2147; 2463; 2474; 2533; 2543; 3630; 3685; 3702; 4098; 4258; 4481; 4871; 5060; 5163; 5635; 5853; 5866; 5987
BssMI	!GATC	25	585; 1124; 1150; 1330; 1712; 2243; 2731; 2740; 2753; 3933; 3937; 3956; 4267; 4345; 4426; 4435; 4513; 4889; 4905; 5264; 5276; 5354; 5362; 5373; 5448
BssNI	GR!CGYC	8	122; 175; 258; 444; 1187; 4096; 4798; 4877
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1255; 4814; 5841
BssSI	C!TCGTG	2	1105; 4688
BssTII	C!CWWGG	8	360; 611; 2298; 2480; 3825; 3918; 4528; 4933
Bst6I	CTCTTCN!	1	1636
Bst6I	!NNNNGAAGAG	3	3563; 4440; 4650
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 1187; 4096; 4798; 4877
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	4	1430; 3663; 3735; 5197
BstAUI	T!GTACA	1	653
BstBI	TT!CGAA	1	4778
Bst2BI	C!ACGAG	3	1255; 4814; 5841
Bst2BI	C!TCGTG	2	1105; 4688
BstBAI	YAC!GTR	5	340; 1557; 2598; 3212; 4400
Bst4CI	ACN!GT	17	76; 198; 269; 543; 581; 669; 1593; 2332; 2457; 3187; 4476; 4592; 4700; 5023; 5514; 5984; 6055
BstC8I	GCN!NGC	43	86; 279; 593; 622; 712; 916; 1375; 1431; 1552; 1627; 1744; 1748; 2256; 2267; 2316; 2503; 2541; 2579; 3315; 3358; 3372; 3645; 3664; 3717; 3736; 3990; 4176; 4395; 4461; 4467; 4495; 4499; 4540; 4544; 4598; 4881; 5068; 5115; 5171; 5193; 5404; 5964; 6001
BstDEI	C!TNAG	15	869; 1327; 1640; 1845; 2098; 2207; 2506; 2528; 2727; 3576; 3878; 4759; 5208; 5331; 5740
BstDSI	C!CRYGG	6	360; 611; 2298; 2331; 3825; 4528
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	2	2479; 2659
BstF5I	GGATGNN!	5	2615; 3956; 4413; 4438; 4892
BstF5I	!CATCC	10	694; 782; 839; 1354; 1391; 1460; 1934; 2165; 2393; 3782
BstFNI	CG!CG	15	60; 2984; 3020; 3396; 3416; 3440; 3471; 4162; 4463; 4901; 4985; 5048; 5117; 5390; 5971
BstH2I	RGCGC!Y	8	598; 1292; 1547; 2037; 3363; 3371; 4099; 5774

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstHHI	GCG!C	27	597; 1084; 1291; 1354; 1546; 2036; 2390; 3362; 3370; 3396; 3418; 3427; 3440; 3471; 4090; 4098; 4162; 4199; 4465; 4725; 4901; 4987; 5390; 5499; 5673; 5773; 5840
BstKTI	GAT!C	25	588; 1127; 1153; 1333; 1715; 2246; 2734; 2743; 2756; 3936; 3940; 3959; 4270; 4348; 4429; 4438; 4516; 4892; 4908; 5267; 5279; 5357; 5365; 5376; 5451
BstMAI	GTCTCN!	2	434; 1846
BstMAI	!NNNNNGAGAC	9	1042; 1132; 1231; 1531; 2465; 3520; 3938; 4957; 5085
BstMBI	!GATC	25	585; 1124; 1150; 1330; 1712; 2243; 2731; 2740; 2753; 3933; 3937; 3956; 4267; 4345; 4426; 4435; 4513; 4889; 4905; 5264; 5276; 5354; 5362; 5373; 5448
BstMCI	CGRY!CG	3	605; 4005; 5680
BstMWI	GCNNNNN!NNGC	38	90; 212; 244; 283; 376; 400; 648; 1079; 1346; 1358; 1430; 1622; 2066; 2188; 2212; 2368; 2420; 2507; 2578; 3323; 3353; 3380; 3422; 3663; 3735; 3786; 3865; 4087; 4171; 4194; 4333; 4456; 4539; 4806; 4993; 5197; 5396; 5968
BstNI	CC!WGG	24	90; 283; 787; 931; 946; 1075; 1405; 1450; 1900; 1957; 2149; 2465; 2476; 2535; 2545; 3632; 3687; 3704; 4483; 5062; 5165; 5855; 5868; 5989
BstNSI	RCATG!Y	7	642; 1088; 2505; 3666; 3738; 4501; 6018
BstOI	CC!WGG	24	90; 283; 787; 931; 946; 1075; 1405; 1450; 1900; 1957; 2149; 2465; 2476; 2535; 2545; 3632; 3687; 3704; 4483; 5062; 5165; 5855; 5868; 5989
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	2	1243; 2009
BstSCI	!CCNGG	31	88; 281; 785; 834; 929; 944; 1073; 1182; 1403; 1448; 1562; 1898; 1955; 2147; 2463; 2474; 2533; 2543; 3630; 3685; 3702; 4098; 4258; 4481; 4871; 5060; 5163; 5635; 5853; 5866; 5987
BstSFI	C!TRYAG	5	1913; 2234; 3431; 5558; 5749
BstSLI	GKGC!C	11	667; 694; 727; 1562; 1694; 1762; 2156; 2416; 4042; 4135; 5704
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	15	60; 2984; 3020; 3396; 3416; 3440; 3471; 4162; 4463; 4901; 4985; 5048; 5117; 5390; 5971
Bst2UI	CC!WGG	24	90; 283; 787; 931; 946; 1075; 1405; 1450; 1900; 1957; 2149; 2465; 2476; 2535; 2545; 3632; 3687; 3704; 4483; 5062; 5165; 5855; 5868; 5989
BstV1I	GCAGCNNNNNNN!	11	821; 1263; 1349; 1656; 2402; 2884; 4169; 4211; 4732; 5185; 5685
BstV1I	!NNNNNNNNNNNGCTGC	11	940; 1656; 2305; 2349; 2637; 3378; 4043; 4227; 4320; 5386; 5592
BstV2I	GAAGACNN!	1	911
BstV2I	!NNNNNNGTCTTC	1	1759
BstXI	CCANNNNN!NTGG	3	1471; 1795; 2277
BstX2I	R!GATCY	12	585; 1150; 1330; 2731; 2740; 4267; 4513; 4905; 5264; 5276; 5362; 5373
BstYI	R!GATCY	12	585; 1150; 1330; 2731; 2740; 4267; 4513; 4905; 5264; 5276; 5362; 5373
BstZI	C!GGCCG	1	4002
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3525; 4315; 5816
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3936
Bsu36I	CC!TNAGG	3	869; 3576; 5208
BsuRI	GG!CC	34	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1403; 1475; 1996; 2182; 2479; 2533; 2635; 3062; 3204; 3859; 3865; 3874; 3917; 4004; 4178; 4569; 4596; 5105; 5162; 5195; 5540; 5974; 5992; 6003
BsuTUI	AT!CGAT	1	3936
BtgI	C!CRYGG	6	360; 611; 2298; 2331; 3825; 4528
BtgZI	GCGATGNNNNNNNNN!	2	3213; 4548
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 4367; 4711
BthCI	GCNG!C	41	761; 812; 956; 1073; 1254; 1340; 1352; 1647; 1672; 2321; 2365; 2393; 2653; 2875; 3394; 3416; 3430; 3868; 4007; 4059; 4070; 4160; 4165; 4202; 4243; 4330; 4333; 4336; 4572; 4668; 4709; 4723; 4837; 5176; 5191; 5402; 5608; 5611; 5676; 5819; 5974
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	2340

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	2087; 2935
BtsCI	GGATGNN!	5	2615; 3956; 4413; 4438; 4892
BtsCI	!CATCC	10	694; 782; 839; 1354; 1391; 1460; 1934; 2165; 2393; 3782
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4364; 4814
BveI	!NNNNNNNNGCAGGT	1	3983
Cac8I	GCN!NGC	43	86; 279; 593; 622; 712; 916; 1375; 1431; 1552; 1627; 1744; 1748; 2256; 2267; 2316; 2503; 2541; 2579; 3315; 3358; 3372; 3645; 3664; 3717; 3736; 3990; 4176; 4395; 4461; 4467; 4495; 4499; 4540; 4544; 4598; 4881; 5068; 5115; 5171; 5193; 5404; 5964; 6001
CaiI	CAGNNN!CTG	2	5197; 5605
CciI	T!CATGA	2	3522; 5294
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	352; 4385; 4390; 4588; 4729
CdiI	C!GATG	5	1052; 1233; 1470; 3199; 4534
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5968
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3757; 3799
CelII	GC!TNAGC	1	2506
CfoI	GCG!C	27	597; 1084; 1291; 1354; 1546; 2036; 2390; 3362; 3370; 3396; 3418; 3427; 3440; 3471; 4090; 4098; 4162; 4199; 4465; 4725; 4901; 4987; 5390; 5499; 5673; 5773; 5840
CfrI	Y!GGCCR	9	1268; 1401; 1473; 2180; 2477; 4002; 4176; 4567; 4594
Cfr9I	C!CCGGG	1	1562
Cfr10I	R!CCGGY	6	600; 1762; 3313; 4415; 4596; 4879
Cfr13I	G!GNCC	16	83; 276; 760; 1003; 1095; 1116; 1200; 1731; 2547; 2634; 3203; 4612; 5057; 5103; 5161; 5194
Cfr42I	CCGC!GG	0	
ChaI	GATC!	25	589; 1128; 1154; 1334; 1716; 2247; 2735; 2744; 2757; 3937; 3941; 3960; 4271; 4349; 4430; 4439; 4517; 4893; 4909; 5268; 5280; 5358; 5366; 5377; 5452
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	6	706; 2095; 3913; 5353; 5453; 5531
CjeI	!NNNNNNNNNACNNNNNNNTGG	9	64; 257; 1530; 1797; 3580; 3675; 4867; 5417; 5972
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	9	98; 291; 1564; 1831; 3614; 3709; 4901; 5451; 6006
CjeI	!NNNNNNNNCCANNNNNNGT	6	672; 2061; 3879; 5319; 5419; 5497
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	3	2095; 5353; 5531
CjePI	!NNNNNNNNGANNNNNNNTGG	5	257; 1530; 2091; 4867; 5466
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	5	290; 1563; 2124; 4900; 5499
CjePI	!NNNNNNNNCCANNNNNNNNTC	3	2062; 5320; 5498
Clal	AT!CGAT	1	3936
CpoI	CG!GWCCG	1	4612
CseI	GACGCNNNNN!	3	526; 4806; 4885
CseI	!NNNNNNNNNNGCGTC	4	1176; 3429; 5324; 5902
CsiI	A!CCWGGT	2	2147; 3685
CspI	CG!GWCCG	1	4612
Csp6I	G!TAC	13	218; 243; 298; 331; 382; 539; 654; 804; 1056; 2328; 2485; 2595; 4401
Csp45I	TT!CGAA	1	4778
CspAI	A!CCGGT	2	600; 1762
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	2	1578; 2505
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	2	1613; 2540
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	6	656; 1247; 1733; 2721; 3376; 4985
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	1	1496
CviAII	C!ATG	30	301; 361; 612; 639; 645; 657; 735; 801; 881; 1085; 1092; 1833; 1980; 2221; 2299; 2310; 2502; 3523; 3663; 3735; 3826; 3967; 4312; 4498; 4529; 4555; 4911; 5295; 6015; 6066

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviJI	RG!CY	124	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; 1403; 1408; 1440; 1467; 1475; 1567; 1629; 1647; 1746; 1750; 1775; 1793; 1872; 1912; 1923; 1996; 2069; 2113; 2182; 2215; 2229; 2265; 2269; 2314; 2423; 2448; 2479; 2494; 2521; 2533; 2539; 2635; 2650; 2765; 2875; 3042; 3062; 3204; 3285; 3299; 3313; 3594; 3635; 3707; 3830; 3859; 3865; 3874; 3882; 3905; 3917; 3923; 4004; 4021; 4029; 4056; 4081; 4165; 4174; 4178; 4202; 4240; 4316; 4333; 4352; 4415; 4459; 4469; 4486; 4569; 4596; 4600; 4637; 4660; 4676; 4856; 4883; 4944; 5066; 5105; 5162; 5169; 5176; 5195; 5206; 5457; 5486; 5529; 5540; 5605; 5684; 5709; 5714; 5760; 5850; 5948; 5974; 5992; 6003
CviKI-1	RG!CY	124	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; 1403; 1408; 1440; 1467; 1475; 1567; 1629; 1647; 1746; 1750; 1775; 1793; 1872; 1912; 1923; 1996; 2069; 2113; 2182; 2215; 2229; 2265; 2269; 2314; 2423; 2448; 2479; 2494; 2521; 2533; 2539; 2635; 2650; 2765; 2875; 3042; 3062; 3204; 3285; 3299; 3313; 3594; 3635; 3707; 3830; 3859; 3865; 3874; 3882; 3905; 3917; 3923; 4004; 4021; 4029; 4056; 4081; 4165; 4174; 4178; 4202; 4240; 4316; 4333; 4352; 4415; 4459; 4469; 4486; 4569; 4596; 4600; 4637; 4660; 4676; 4856; 4883; 4944; 5066; 5105; 5162; 5169; 5176; 5195; 5206; 5457; 5486; 5529; 5540; 5605; 5684; 5709; 5714; 5760; 5850; 5948; 5974; 5992; 6003
CviQI	G!TAC	13	218; 243; 298; 331; 382; 539; 654; 804; 1056; 2328; 2485; 2595; 4401
DdeI	C!TNAG	15	869; 1327; 1640; 1845; 2098; 2207; 2506; 2528; 2727; 3576; 3878; 4759; 5208; 5331; 5740
DinI	GGC!GCC	1	4097
DpnI	GA!TC	25	587; 1126; 1152; 1332; 1714; 2245; 2733; 2742; 2755; 3935; 3939; 3958; 4269; 4347; 4428; 4437; 4515; 4891; 4907; 5266; 5278; 5356; 5364; 5375; 5450
DpnII	!GATC	25	585; 1124; 1150; 1330; 1712; 2243; 2731; 2740; 2753; 3933; 3937; 3956; 4267; 4345; 4426; 4435; 4513; 4889; 4905; 5264; 5276; 5354; 5362; 5373; 5448
DraI	TTT!AAA	3	2798; 5240; 5259
DraII	RG!GNCCY	1	5194
DraIII	CACNNN!GTG	2	1260; 3212
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	4	266; 851; 1577; 5576
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTTG	0	
DrdI	GACNNN!NNGTC	3	3167; 4123; 5912
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	2	476; 1993
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	3167; 4123; 5912
EaeI	Y!GGCCR	9	1268; 1401; 1473; 2180; 2477; 4002; 4176; 4567; 4594
EagI	C!GGCCG	1	4002
Eam1104I	CTCTTCN!	1	1636
Eam1104I	!NNNNGAAGAG	3	3563; 4440; 4650
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	1	1636
EarI	!NNNNGAAGAG	3	3563; 4440; 4650
EciI	GGCGGANNNNNNNNNNNN!	5	1376; 3596; 4625; 5812; 5958
EciI	!NNNNNNNNNTCCGCC	4	496; 3767; 3788; 3809
Ecl136II	GAG!CTC	1	1440
EclXI	C!GGCCG	1	4002
Eco24I	GRGCY!C	7	1442; 1925; 2115; 2541; 3287; 4461; 5171
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	4	1132; 1231; 2465; 5085
Eco32I	GAT!ATC	1	2028
Eco47I	G!GWCC	5	1200; 1731; 2547; 4612; 5057
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	4002
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	1120; 4242; 4674
Eco57I	!NNNNNNNNNNNNNNNNCTCAG	3	1515; 1753; 5472
Eco72I	CAC!GTG	1	1557

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco8II	CC!TNAGG	3	869; 3576; 5208
Eco88I	C!YCGRG	2	1562; 1685
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	8	360; 611; 2298; 2480; 3825; 3918; 4528; 4933
Eco147I	AGG!CCT	3	1039; 2533; 3917
EcoHI	!CCSGG	7	834; 1182; 1562; 4098; 4258; 4871; 5635
EcoICRI	GAG!CTC	1	1440
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	6	1120; 1894; 1978; 4242; 4674; 4936
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	928; 1515; 1753; 4879; 5472
EcoNI	CCTNN!NNNAGG	2	2479; 2659
EcoO65I	G!GTNACC	0	
EcoO109I	RG!GNCCY	1	5194
EcoRI	G!AATTC	2	1736; 2134
EcoRII	!CCWGG	24	88; 281; 785; 929; 944; 1073; 1403; 1448; 1898; 1955; 2147; 2463; 2474; 2533; 2543; 3630; 3685; 3702; 4481; 5060; 5163; 5853; 5866; 5987
EcoRV	GAT!ATC	1	2028
EcoT14I	C!CWWGG	8	360; 611; 2298; 2480; 3825; 3918; 4528; 4933
EcoT22I	ATGCA!T	3	3668; 3740; 6071
EcoT38I	GRGCY!C	7	1442; 1925; 2115; 2541; 3287; 4461; 5171
Eco53kI	GAG!CTC	1	1440
EgeI	GGC!GCC	1	4097
EheI	GGC!GCC	1	4097
ErhI	C!CWWGG	8	360; 611; 2298; 2480; 3825; 3918; 4528; 4933
EsaBC3I	TC!GA	16	753; 780; 1248; 2025; 2031; 3246; 3937; 4210; 4366; 4390; 4426; 4588; 4779; 4824; 5079; 5917
Esp3I	CGTCTCN!	1	1846
Esp3I	!NNNNNGAGACG	2	1042; 1531
FaeI	CATG!	30	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1836; 1983; 2224; 2302; 2313; 2505; 3526; 3666; 3738; 3829; 3970; 4315; 4501; 4532; 4558; 4914; 5298; 6018; 6069
Fail	YA!TR	76	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; 1682; 1834; 1856; 1981; 2003; 2187; 2189; 2222; 2300; 2311; 2503; 2570; 2647; 2669; 2758; 2768; 2834; 2879; 3084; 3512; 3524; 3655; 3664; 3727; 3736; 3760; 3827; 3851; 3968; 4032; 4313; 4338; 4499; 4530; 4556; 4628; 4844; 4912; 4990; 5042; 5203; 5220; 5222; 5224; 5296; 5574; 5763; 5879; 5952; 6016; 6067
FalI	AAGNNNNCTTNNNNNNNNNNNN!	3	879; 2598; 4436
FalI	!NNNNNNNNNAAGNNNNCTT	3	847; 2566; 4404
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4247; 4779; 4888
FaqI	!NNNNNNNNNNNNNGTCCC	4	3612; 3684; 3748; 5043
FatI	!CATG	30	300; 360; 611; 638; 644; 656; 734; 800; 880; 1084; 1091; 1832; 1979; 2220; 2298; 2309; 2501; 3522; 3662; 3734; 3825; 3966; 4311; 4497; 4528; 4554; 4910; 5294; 6014; 6065
FauI	CCCGCNNNN!	11	93; 119; 286; 1068; 1170; 2170; 3418; 3773; 3794; 4990; 5122
FauI	!NNNNNNNGCGGG	6	1105; 3349; 4219; 4756; 4894; 5041
FauNDI	CA!TATG	2	234; 2187
FbaI	T!GATCA	1	2753
FblI	GT!MKAC	3	1190; 1577; 1985
FmuI	GGNC!C	16	86; 279; 763; 1006; 1098; 1119; 1203; 1734; 2550; 2637; 3206; 4615; 5060; 5106; 5164; 5197
Fnu4HI	GC!NGC	41	759; 810; 954; 1071; 1252; 1338; 1350; 1645; 1670; 2319; 2363; 2391; 2651; 2873; 3392; 3414; 3428; 3866; 4005; 4057; 4068; 4158; 4163; 4200; 4241; 4328; 4331; 4334; 4570; 4666; 4707; 4721; 4835; 5174; 5189; 5400; 5606; 5609; 5674; 5817; 5972
FokI	GGATGNNNNNNNNNN!	5	2622; 3963; 4420; 4445; 4899
FokI	!NNNNNNNNNNNNNCATCC	10	681; 769; 826; 1341; 1378; 1447; 1921; 2152; 2380; 3769
FriOI	GRGCY!C	7	1442; 1925; 2115; 2541; 3287; 4461; 5171
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	4198
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 2744; 2945; 3363; 3919; 4934; 5268; 5521

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	210	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; 1371; 1404; 1429; 1443; 1462; 1477; 1496; 1530; 1574; 1601; 1632; 1648; 1686; 1713; 1735; 1768; 1801; 1836; 1881; 1896; 1910; 1937; 1951; 1965; 1989; 2010; 2035; 2050; 2065; 2083; 2097; 2127; 2152; 2168; 2182; 2196; 2229; 2262; 2279; 2305; 2335; 2360; 2379; 2397; 2428; 2458; 2477; 2493; 2529; 2547; 2563; 2586; 2649; 2667; 2748; 2779; 2818; 2832; 2973; 3068; 3092; 3115; 3138; 3156; 3178; 3199; 3218; 3237; 3266; 3287; 3301; 3327; 3415; 3441; 3490; 3531; 3549; 3588; 3604; 3642; 3699; 3714; 3771; 3791; 3805; 3822; 3836; 3873; 3888; 3931; 4014; 4081; 4112; 4132; 4147; 4192; 4206; 4272; 4286; 4305; 4321; 4362; 4382; 4429; 4479; 4495; 4515; 4540; 4560; 4583; 4610; 4628; 4654; 4694; 4720; 4744; 4800; 4814; 4842; 4885; 4906; 4941; 4985; 5073; 5097; 5119; 5139; 5155; 5176; 5190; 5209; 5293; 5313; 5341; 5356; 5390; 5432; 5459; 5474; 5519; 5543; 5557; 5579; 5605; 5625; 5649; 5675; 5723; 5742; 5761; 5787; 5822; 5867; 5897; 5911; 5962; 5976; 6001; 6017; 6038; 6067
FspEI	!NNNNNNNNNNNNNGG	170	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; 1385; 1406; 1435; 1457; 1484; 1525; 1548; 1567; 1598; 1640; 1673; 1693; 1714; 1732; 1756; 1781; 1799; 1819; 1841; 1885; 1942; 1966; 2093; 2134; 2164; 2263; 2285; 2318; 2389; 2413; 2443; 2461; 2515; 2577; 2596; 2617; 2647; 2668; 2686; 2704; 2723; 2767; 2867; 2936; 3044; 3093; 3115; 3143; 3179; 3224; 3253; 3289; 3308; 3336; 3356; 3419; 3442; 3550; 3582; 3600; 3629; 3672; 3701; 3812; 3841; 3884; 3905; 3933; 3966; 3986; 4011; 4038; 4063; 4085; 4113; 4139; 4160; 4211; 4232; 4250; 4298; 4334; 4390; 4415; 4439; 4468; 4491; 4515; 4541; 4563; 4582; 4607; 4647; 4683; 4748; 4833; 4857; 4886; 4920; 4941; 4961; 5006; 5033; 5052; 5085; 5137; 5168; 5195; 5247; 5345; 5416; 5461; 5522; 5587; 5621; 5647; 5665; 5701; 5771; 5794; 5816; 5840; 5873; 5921; 5956; 5974; 6031
Fsp4HI	GC!NGC	41	759; 810; 954; 1071; 1252; 1338; 1350; 1645; 1670; 2319; 2363; 2391; 2651; 2873; 3392; 3414; 3428; 3866; 4005; 4057; 4068; 4158; 4163; 4200; 4241; 4328; 4331; 4334; 4570; 4666; 4707; 4721; 4835; 5174; 5189; 5400; 5606; 5609; 5674; 5817; 5972
GdiII	C!GGCCR	1	4002
GdiII	Y!GGCCG	3	4002; 4567; 4594
GlaI	GC!GC	27	596; 1083; 1290; 1353; 1545; 2035; 2389; 3361; 3369; 3395; 3417; 3426; 3439; 3470; 4089; 4097; 4161; 4198; 4464; 4724; 4900; 4986; 5389; 5498; 5672; 5772; 5839
Glul	GC!NGC	41	759; 810; 954; 1071; 1252; 1338; 1350; 1645; 1670; 2319; 2363; 2391; 2651; 2873; 3392; 3414; 3428; 3866; 4005; 4057; 4068; 4158; 4163; 4200; 4241; 4328; 4331; 4334; 4570; 4666; 4707; 4721; 4835; 5174; 5189; 5400; 5606; 5609; 5674; 5817; 5972
GsaI	CCCAG!C	5	997; 1894; 3643; 3715; 5714
GsaI	GCTGG!G	3	1035; 1437; 4604
GsuI	CTGGAGNNNNNNNNNNNNNN!	3	1894; 1978; 4936
GsuI	!NNNNNNNNNNNNNCTCCAG	2	928; 4879
HaeI	WGG!CCW	13	1039; 1270; 1403; 1475; 1996; 2182; 2479; 2533; 3917; 4178; 5540; 5992; 6003
HaeII	RGCG!Y	8	598; 1292; 1547; 2037; 3363; 3371; 4099; 5774
HaeIII	GG!CC	34	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1403; 1475; 1996; 2182; 2479; 2533; 2635; 3062; 3204; 3859; 3865; 3874; 3917; 4004; 4178; 4569; 4596; 5105; 5162; 5195; 5540; 5974; 5992; 6003
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2771; 4292
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2737; 4258
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2770; 4291
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2739; 4260
HapII	C!CGG	24	601; 835; 1184; 1322; 1358; 1563; 1763; 2738; 3314; 4001; 4078; 4100; 4128; 4259; 4349; 4416; 4597; 4872; 4880; 4972; 5446; 5636; 5662; 5809

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HgaI	GACGCNNNNN!	3	526; 4806; 4885
HgaI	!NNNNNNNNNGCGTC	4	1176; 3429; 5324; 5902
HhaI	GCG!C	27	597; 1084; 1291; 1354; 1546; 2036; 2390; 3362; 3370; 3396; 3418; 3427; 3440; 3471; 4090; 4098; 4162; 4199; 4465; 4725; 4901; 4987; 5390; 5499; 5673; 5773; 5840
HinI	GR!CGYC	8	122; 175; 258; 444; 1187; 4096; 4798; 4877
HinIII	CATG!	30	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1836; 1983; 2224; 2302; 2313; 2505; 3526; 3666; 3738; 3829; 3970; 4315; 4501; 4532; 4558; 4914; 5298; 6018; 6069
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	2770; 4291
Hin4I	!NNNNNNNNGABNNNNNNRTC	3	2738; 4259; 4289
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	2770; 4291; 4321
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	2738; 4259
Hin6I	G!CGC	27	595; 1082; 1289; 1352; 1544; 2034; 2388; 3360; 3368; 3394; 3416; 3425; 3438; 3469; 4088; 4096; 4160; 4197; 4463; 4723; 4899; 4985; 5388; 5497; 5671; 5771; 5838
HinPII	G!CGC	27	595; 1082; 1289; 1352; 1544; 2034; 2388; 3360; 3368; 3394; 3416; 3425; 3438; 3469; 4088; 4096; 4160; 4197; 4463; 4723; 4899; 4985; 5388; 5497; 5671; 5771; 5838
HincII	GTY!RAC	2	2124; 2859
HindII	GTY!RAC	2	2124; 2859
HindIII	A!AGCTT	0	
HinfI	G!ANTC	17	410; 740; 890; 1217; 1325; 1513; 2686; 3139; 3161; 3571; 4581; 4715; 4767; 4825; 4862; 5644; 6040
HpaI	GTT!AAC	1	2859
HpaII	C!CGG	24	601; 835; 1184; 1322; 1358; 1563; 1763; 2738; 3314; 4001; 4078; 4100; 4128; 4259; 4349; 4416; 4597; 4872; 4880; 4972; 5446; 5636; 5662; 5809
HphI	GGTGANNNNNNN!	10	376; 627; 996; 1306; 2292; 2347; 2614; 2716; 5167; 5283
HphI	!NNNNNNNTCACC	6	885; 1812; 1932; 2238; 3213; 4274
Hpy8I	GTN!NAC	19	201; 539; 577; 672; 692; 987; 1191; 1200; 1578; 1760; 1820; 1986; 2124; 2589; 2859; 3143; 3160; 3215; 5702
Hpy99I	CGWCG!	10	754; 1234; 1249; 4186; 4214; 4508; 4523; 4800; 5185; 5918
Hpy166II	GTN!NAC	19	201; 539; 577; 672; 692; 987; 1191; 1200; 1578; 1760; 1820; 1986; 2124; 2589; 2859; 3143; 3160; 3215; 5702
Hpy188I	TCN!GA	15	585; 699; 1330; 1968; 2631; 3270; 3879; 4063; 4407; 4760; 4861; 5340; 5474; 5827; 5905
Hpy188III	TC!NNGA	24	1176; 1322; 1416; 2139; 2744; 3523; 3575; 3888; 3941; 4114; 4430; 4439; 4522; 4578; 4622; 4712; 4745; 4814; 5295; 5369; 5452; 5550; 5648; 5782
HpyAV	CCTTCNNNNNN!	8	780; 828; 873; 1527; 1986; 4741; 4848; 5527
HpyAV	!NNNNNGAAGG	13	700; 1072; 2611; 2655; 2689; 2707; 3329; 4224; 4953; 4969; 5152; 5469; 5779
HpyCH4III	ACN!GT	17	76; 198; 269; 543; 581; 669; 1593; 2332; 2457; 3187; 4476; 4592; 4700; 5023; 5514; 5984; 6055
HpyCH4IV	A!CGT	22	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 1397; 1556; 1839; 2339; 2597; 3156; 3168; 3211; 3321; 4212; 4399; 5180; 5313
HpyCH4V	TG!CA	22	692; 1014; 1130; 1385; 1760; 2501; 2845; 2872; 2940; 3657; 3666; 3729; 3738; 3853; 3929; 3988; 4147; 4322; 4336; 5406; 5702; 6069
HpyF3I	C!TNAG	15	869; 1327; 1640; 1845; 2098; 2207; 2506; 2528; 2727; 3576; 3878; 4759; 5208; 5331; 5740
HpyF10VI	GCNNNNN!NNGC	38	90; 212; 244; 283; 376; 400; 648; 1079; 1346; 1358; 1430; 1622; 2066; 2188; 2212; 2368; 2420; 2507; 2578; 3323; 3353; 3380; 3422; 3663; 3735; 3786; 3865; 4087; 4171; 4194; 4333; 4456; 4539; 4806; 4993; 5197; 5396; 5968
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 1187; 4096; 4798; 4877
Hsp92II	CATG!	30	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1836; 1983; 2224; 2302; 2313; 2505; 3526; 3666; 3738; 3829; 3970; 4315; 4501; 4532; 4558; 4914; 5298; 6018; 6069
HspAI	G!CGC	27	595; 1082; 1289; 1352; 1544; 2034; 2388; 3360; 3368; 3394; 3416; 3425; 3438; 3469; 4088; 4096; 4160; 4197; 4463; 4723; 4899; 4985; 5388; 5497; 5671; 5771; 5838
KasI	G!GCGCC	1	4095
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1321

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	2753
KspAI	GTT!AAC	1	2859
Kzo9I	!GATC	25	585; 1124; 1150; 1330; 1712; 2243; 2731; 2740; 2753; 3933; 3937; 3956; 4267; 4345; 4426; 4435; 4513; 4889; 4905; 5264; 5276; 5354; 5362; 5373; 5448
LguI	GCTCTTCN!	1	1636
LguI	!NNNNGAAGAGC	2	4440; 4650
LpnI	RGC!GCGY	8	596; 1290; 1545; 2035; 3361; 3369; 4097; 5772
LpnPI	CCDGNNNNNNNNN!	84	102; 295; 614; 742; 799; 848; 881; 943; 958; 1007; 1087; 1111; 1135; 1197; 1284; 1335; 1371; 1417; 1443; 1462; 1477; 1576; 1639; 1768; 1840; 1904; 1969; 2083; 2110; 2128; 2152; 2207; 2279; 2335; 2410; 2458; 2477; 2547; 2575; 2751; 2833; 3138; 3327; 3550; 3588; 3604; 3644; 3699; 3716; 3816; 3901; 4014; 4091; 4113; 4136; 4272; 4286; 4305; 4362; 4429; 4479; 4495; 4552; 4610; 4819; 4885; 4909; 4985; 5074; 5177; 5210; 5441; 5459; 5605; 5625; 5649; 5675; 5724; 5822; 5867; 5897; 5976; 6001; 6038
LpnPI	!NNNNNNNNNNNNNCHGG	73	75; 268; 552; 586; 772; 820; 916; 1017; 1060; 1169; 1195; 1268; 1307; 1343; 1390; 1419; 1532; 1598; 1640; 1732; 1756; 1793; 1858; 1885; 1942; 2134; 2164; 2405; 2450; 2520; 2577; 2723; 3179; 3299; 3356; 3419; 3617; 3629; 3689; 3701; 3933; 3978; 4021; 4063; 4085; 4113; 4160; 4222; 4244; 4334; 4401; 4424; 4468; 4563; 4582; 4607; 4756; 4857; 4900; 4957; 5047; 5150; 5177; 5195; 5431; 5468; 5621; 5647; 5787; 5805; 5840; 5921; 5974
Lsp1109I	GCAGCNNNNNNNN!	11	821; 1263; 1349; 1656; 2402; 2884; 4169; 4211; 4732; 5185; 5685
Lsp1109I	!NNNNNNNNNNNGCTGC	11	940; 1656; 2305; 2349; 2637; 3378; 4043; 4227; 4320; 5386; 5592
LweI	GCATCNNNNN!	13	848; 1363; 1394; 1469; 2174; 2402; 2444; 2912; 3675; 3747; 4395; 4459; 4734
LweI	!NNNNNNNNNGATGC	9	357; 1001; 1169; 1469; 1656; 4054; 4309; 4525; 5917
MabI	A!CCWGGT	2	2147; 3685
MaeI	C!TAG	8	592; 2744; 2945; 3363; 3919; 4934; 5268; 5521
MaeII	A!CGT	22	122; 134; 175; 258; 339; 444; 968; 1196; 1244; 1397; 1556; 1839; 2339; 2597; 3156; 3168; 3211; 3321; 4212; 4399; 5180; 5313
MaeIII	!GTNAC	17	61; 148; 497; 891; 1087; 1486; 2287; 2335; 2884; 3385; 3397; 4216; 4522; 5212; 5478; 5594; 5657
MalI	GA!TC	25	587; 1126; 1152; 1332; 1714; 2245; 2733; 2742; 2755; 3935; 3939; 3958; 4269; 4347; 4428; 4437; 4515; 4891; 4907; 5266; 5278; 5356; 5364; 5375; 5450
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	5	144; 197; 466; 540; 1743
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	4	157; 240; 426; 2336
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3520; 4709
MbiI	GAG!CGG	2	3356; 4763
MboI	!GATC	25	585; 1124; 1150; 1330; 1712; 2243; 2731; 2740; 2753; 3933; 3937; 3956; 4267; 4345; 4426; 4435; 4513; 4889; 4905; 5264; 5276; 5354; 5362; 5373; 5448
MboII	GAAGANNNNNNNN!	10	916; 1029; 1675; 2653; 2722; 3352; 3580; 4457; 4667; 5286
MboII	!NNNNNNNTCTTC	7	1521; 1623; 1759; 4747; 4914; 5114; 5357
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2846
MflI	R!GATCY	12	585; 1150; 1330; 2731; 2740; 4267; 4513; 4905; 5264; 5276; 5362; 5373
MhlI	GDGCH!C	21	667; 694; 727; 1442; 1562; 1694; 1762; 1925; 1964; 2115; 2156; 2416; 2541; 3287; 4042; 4135; 4209; 4399; 4461; 5171; 5704
MlsI	TGG!CCA	6	1270; 1403; 1475; 2182; 2479; 4178
MluI	A!CGCGT	1	2982
MluNI	TGG!CCA	6	1270; 1403; 1475; 2182; 2479; 4178
MlyI	GAGTCNNNNN!	3	899; 3148; 3580
MlyI	!NNNNNGACTC	6	404; 1319; 1507; 3155; 4761; 5638
Mly113I	GG!CGCC	1	4096
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	1	3189
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	3	1709; 5621; 5805

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MnII	CCTC>NNNNNNN!	20	773; 842; 952; 967; 1050; 1183; 1833; 1948; 2032; 2091; 2186; 2303; 2459; 2815; 3879; 4697; 4903; 5217; 5587; 5911
MnII	!NNNNNNGAGG	34	541; 654; 693; 714; 747; 864; 973; 1029; 1218; 1251; 1294; 1306; 1339; 1498; 1681; 1986; 2523; 2598; 2625; 2664; 2694; 2712; 2775; 3240; 3571; 3849; 3892; 3907; 3947; 4011; 4147; 4504; 4934; 5837
Mph1103I	ATGCA!T	3	3668; 3740; 6071
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1321
MroNI	G!CCGGC	3	3313; 4596; 4879
MroXI	GAANN!NN TTC	1	1809
MscI	TGG!CCA	6	1270; 1403; 1475; 2182; 2479; 4178
MseI	T!TAA	18	7; 629; 854; 2054; 2797; 2858; 2979; 3000; 3011; 3023; 3034; 3051; 3149; 3420; 5239; 5253; 5258; 5310
MslI	CAYNN!NNRTG	5	365; 613; 643; 2458; 4533
MspI	C!CGG	24	601; 835; 1184; 1322; 1358; 1563; 1763; 2738; 3314; 4001; 4078; 4100; 4128; 4259; 4349; 4416; 4597; 4872; 4880; 4972; 5446; 5636; 5662; 5809
Msp20I	TGG!CCA	6	1270; 1403; 1475; 2182; 2479; 4178
MspA1I	CMG!CKG	7	1063; 1340; 1912; 3594; 4202; 5431; 5676
MspCI	C!TTAAG	0	
MspJI	CNNRNNNNNNNN!	308	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; 1365; 1380; 1408; 1421; 1442; 1461; 1476; 1489; 1503; 1553; 1567; 1593; 1621; 1638; 1651; 1665; 1685; 1698; 1719; 1735; 1753; 1767; 1783; 1801; 1820; 1839; 1857; 1872; 1885; 1902; 1920; 1937; 1951; 1968; 1992; 2026; 2043; 2060; 2074; 2109; 2127; 2140; 2156; 2174; 2191; 2206; 2219; 2233; 2252; 2267; 2282; 2306; 2322; 2344; 2359; 2391; 2409; 2428; 2457; 2476; 2492; 2514; 2529; 2546; 2563; 2585; 2604; 2634; 2648; 2668; 2739; 2756; 2769; 2784; 2803; 2820; 2833; 2874; 2888; 2901; 2919; 2957; 2972; 2990; 3031; 3055; 3075; 3093; 3114; 3137; 3169; 3184; 3206; 3224; 3237; 3258; 3275; 3288; 3301; 3317; 3330; 3360; 3375; 3400; 3418; 3431; 3446; 3470; 3484; 3508; 3533; 3549; 3587; 3603; 3642; 3656; 3670; 3698; 3714; 3728; 3742; 3771; 3784; 3805; 3814; 3836; 3866; 3882; 3900; 3930; 3953; 3977; 4001; 4020; 4048; 4074; 4090; 4103; 4126; 4140; 4160; 4173; 4187; 4206; 4220; 4233; 4249; 4264; 4277; 4293; 4308; 4324; 4349; 4368; 4384; 4397; 4410; 4428; 4442; 4456; 4472; 4494; 4510; 4529; 4551; 4567; 4590; 4609; 4623; 4639; 4653; 4673; 4689; 4702; 4724; 4757; 4771; 4791; 4804; 4818; 4872; 4885; 4908; 4921; 4940; 4957; 4984; 5020; 5053; 5072; 5097; 5118; 5145; 5158; 5175; 5189; 5204; 5220; 5280; 5305; 5321; 5343; 5356; 5370; 5401; 5415; 5440; 5458; 5473; 5486; 5505; 5518; 5533; 5562; 5581; 5599; 5624; 5639; 5658; 5674; 5693; 5711; 5727; 5741; 5760; 5787; 5810; 5832; 5851; 5866; 5879; 5896; 5916; 5943; 5956; 5975; 6000; 6023; 6037; 6050; 6067

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	254	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; 1343; 1360; 1382; 1402; 1420; 1442; 1462; 1485; 1518; 1537; 1555; 1593; 1612; 1641; 1667; 1689; 1709; 1729; 1749; 1766; 1786; 1813; 1832; 1855; 1877; 1906; 1942; 1966; 1988; 2009; 2052; 2083; 2101; 2125; 2148; 2165; 2189; 2207; 2241; 2260; 2280; 2301; 2318; 2371; 2389; 2406; 2431; 2450; 2467; 2484; 2515; 2539; 2560; 2578; 2608; 2632; 2654; 2675; 2692; 2714; 2748; 2777; 2806; 2848; 2931; 2969; 2993; 3016; 3045; 3089; 3111; 3143; 3179; 3196; 3217; 3254; 3274; 3291; 3308; 3343; 3361; 3379; 3396; 3420; 3442; 3469; 3497; 3523; 3561; 3582; 3599; 3617; 3640; 3661; 3689; 3712; 3733; 3751; 3772; 3789; 3812; 3836; 3856; 3874; 3896; 3927; 3949; 3975; 3994; 4011; 4039; 4058; 4077; 4095; 4113; 4134; 4156; 4180; 4213; 4233; 4251; 4272; 4298; 4325; 4342; 4359; 4376; 4402; 4424; 4446; 4464; 4484; 4503; 4525; 4563; 4583; 4607; 4627; 4647; 4674; 4698; 4731; 4750; 4778; 4800; 4829; 4857; 4882; 4901; 4920; 4941; 4958; 4975; 5006; 5033; 5053; 5076; 5096; 5133; 5150; 5169; 5195; 5215; 5254; 5281; 5300; 5318; 5355; 5373; 5414; 5432; 5458; 5475; 5507; 5536; 5564; 5585; 5608; 5627; 5648; 5666; 5683; 5701; 5727; 5748; 5768; 5788; 5806; 5827; 5853; 5870; 5889; 5908; 5937; 5956; 5974; 5993; 6011; 6029; 6052
MspR9I	CC!NGG	31	90; 283; 787; 836; 931; 946; 1075; 1184; 1405; 1450; 1564; 1900; 1957; 2149; 2465; 2476; 2535; 2545; 3632; 3687; 3704; 4100; 4260; 4483; 4873; 5062; 5165; 5637; 5855; 5868; 5989
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2846
MvaI	CC!WGG	24	90; 283; 787; 931; 946; 1075; 1405; 1450; 1900; 1957; 2149; 2465; 2476; 2535; 2545; 3632; 3687; 3704; 4483; 5062; 5165; 5855; 5868; 5989
Mva1269I	GAATGCN!	1	2847
Mva1269I	G!CATTC	1	2940
MvnI	CG!CG	15	60; 2984; 3020; 3396; 3416; 3440; 3471; 4162; 4463; 4901; 4985; 5048; 5117; 5390; 5971
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	38	90; 212; 244; 283; 376; 400; 648; 1079; 1346; 1358; 1430; 1622; 2066; 2188; 2212; 2368; 2420; 2507; 2578; 3323; 3353; 3380; 3422; 3663; 3735; 3786; 3865; 4087; 4171; 4194; 4333; 4456; 4539; 4806; 4993; 5197; 5396; 5968
NaeI	GCC!GGC	3	3315; 4598; 4881
NarI	GG!CGCC	1	4096
NciI	CC!SGG	7	836; 1184; 1564; 4100; 4260; 4873; 5637
NcoI	C!CATGG	5	360; 611; 2298; 3825; 4528
NdeI	CA!TATG	2	234; 2187
NdeII	!GATC	25	585; 1124; 1150; 1330; 1712; 2243; 2731; 2740; 2753; 3933; 3937; 3956; 4267; 4345; 4426; 4435; 4513; 4889; 4905; 5264; 5276; 5354; 5362; 5373; 5448
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	731
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	767
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	3313; 4596; 4879
NheI	G!CTAGC	1	591
NlaIII	CATG!	30	304; 364; 615; 642; 648; 660; 738; 804; 884; 1088; 1095; 1836; 1983; 2224; 2302; 2313; 2505; 3526; 3666; 3738; 3829; 3970; 4315; 4501; 4532; 4558; 4914; 5298; 6018; 6069
NlaIV	GGN!NCC	26	467; 666; 726; 1117; 1320; 1586; 1617; 2112; 2153; 2345; 2413; 2462; 2733; 3251; 3272; 3284; 3475; 3636; 3708; 4097; 4132; 4980; 5059; 5104; 5947; 5986
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	5	1674; 2109; 2928; 3243; 4835
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 991; 1277; 5907
Nli3877I	CYCGR!G	2	1566; 1689
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3885; 4321
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1007; 3850
NmeDI	RCCGGYNNNNNNNN!	6	612; 1774; 3325; 4427; 4608; 4891
NmeDI	!NNNNNNNNNNNNRCCGGY	6	587; 1749; 3300; 4402; 4583; 4866

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmuCI	!GTSAC	8	891; 1087; 1486; 2287; 2335; 3385; 4216; 4522
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4198
NsiI	ATGCA!T	3	3668; 3740; 6071
NspI	RCATG!Y	7	642; 1088; 2505; 3666; 3738; 4501; 6018
NspV	TT!CGAA	1	4778
OliI	CACNN!NNGTG	2	613; 2458
PabI	GTA!C	13	220; 245; 300; 333; 384; 541; 656; 806; 1058; 2330; 2487; 2597; 4403
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	2505; 3666; 3738; 4501
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	2	3522; 5294
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	5061; 5164
PauI	G!CGCGC	0	
PceI	AGG!CCT	3	1039; 2533; 3917
PciI	A!CATGT	1	6014
PciSI	GCTCTTCN!	1	1636
PciSI	!NNNNGAAGAGC	2	4440; 4650
PcsI	WCGNNNN!NNNCGW	7	1253; 4390; 4467; 4710; 4784; 5177; 5695
PctI	GAATGCN!	1	2847
PctI	G!CATTC	1	2940
PdiI	GCC!GGC	3	3315; 4598; 4881
PdmI	GAANN!NNTTC	1	1809
PfeI	G!AWTC	8	740; 1217; 2686; 4581; 4715; 4825; 4862; 6040
Pfi23II	C!GTACG	0	
PfifI	GACN!NNGTC	1	4214
PfIMI	CCANNNN!NTGG	2	1209; 2403
PfoI	T!CCNGGA	2	944; 4871
PhoI	GG!CC	34	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1403; 1475; 1996; 2182; 2479; 2533; 2635; 3062; 3204; 3859; 3865; 3874; 3917; 4004; 4178; 4569; 4596; 5105; 5162; 5195; 5540; 5974; 5992; 6003
PinAI	A!CCGGT	2	600; 1762
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	4477
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	2543; 4042; 4297
PleI	GAGTCNNNN!	3	898; 3147; 3579
PleI	!NNNNNGACTC	6	404; 1319; 1507; 3155; 4761; 5638
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	1557
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	1	1557
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	3178
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	5308
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	5340
PpiI	!NNNNNNNGAACNNNNNCTC	1	3146
Ppsi	GAGTCNNNN!	3	898; 3147; 3579
Ppsi	!NNNNNGACTC	6	404; 1319; 1507; 3155; 4761; 5638
Ppu10I	A!TGCAT	3	3664; 3736; 6067
Ppu21I	YAC!GTR	5	340; 1557; 2598; 3212; 4400
PpuMI	RG!GWCCY	0	
Psci	A!CATGT	1	6014
PshAI	GACNN!NNGTC	2	1243; 2009
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2879; 3084
Psp03I	GGWC!C	5	1203; 1734; 2550; 4615; 5060
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	24	88; 281; 785; 929; 944; 1073; 1403; 1448; 1898; 1955; 2147; 2463; 2474; 2533; 2543; 3630; 3685; 3702; 4481; 5060; 5163; 5853; 5866; 5987
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1442
PspCI	CAC!GTG	1	1557

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspEI	G!GTNACC	0	
PspGI	!CCWGG	24	88; 281; 785; 929; 944; 1073; 1403; 1448; 1898; 1955; 2147; 2463; 2474; 2533; 2543; 3630; 3685; 3702; 4481; 5060; 5163; 5853; 5866; 5987
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	26	467; 666; 726; 1117; 1320; 1586; 1617; 2112; 2153; 2345; 2413; 2462; 2733; 3251; 3272; 3284; 3475; 3636; 3708; 4097; 4132; 4980; 5059; 5104; 5947; 5986
PspOMI	G!GGCCC	0	
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNNNN!	4	125; 2061; 3826; 4825
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	4228
PspPI	G!GNCC	16	83; 276; 760; 1003; 1095; 1116; 1200; 1731; 2547; 2634; 3203; 4612; 5057; 5103; 5161; 5194
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNNNN!	4	1917; 3649; 3721; 5227
PspPRI	!NNNNNNNNNNNNNNNNNCTGRGG	4	855; 2514; 3562; 4757
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	5197
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	2	5197; 5605
PsuI	R!GATCY	12	585; 1150; 1330; 2731; 2740; 4267; 4513; 4905; 5264; 5276; 5362; 5373
PsyI	GACN!NNGTC	1	4214
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1912; 3594; 4202
RcaI	T!CATGA	2	3522; 5294
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4611
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	3	1605; 1963; 2825
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	13	219; 244; 299; 332; 383; 540; 655; 805; 1057; 2329; 2486; 2596; 4402
RsaNI	G!TAC	13	218; 243; 298; 331; 382; 539; 654; 804; 1056; 2328; 2485; 2595; 4401
RseI	CAYNN!NNRTG	5	365; 613; 643; 2458; 4533
RsrII	CG!GWCCG	1	4612
Rsr2I	CG!GWCCG	1	4612
SacI	GAGCT!C	1	1442
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTCN!	1	1636
SapI	!NNNNGAAGAGC	2	4440; 4650
SaqAI	T!TAA	18	7; 629; 854; 2054; 2797; 2858; 2979; 3000; 3011; 3023; 3034; 3051; 3149; 3420; 5239; 5253; 5258; 5310
SatI	GC!NGC	41	759; 810; 954; 1071; 1252; 1338; 1350; 1645; 1670; 2319; 2363; 2391; 2651; 2873; 3392; 3414; 3428; 3866; 4005; 4057; 4068; 4158; 4163; 4200; 4241; 4328; 4331; 4334; 4570; 4666; 4707; 4721; 4835; 5174; 5189; 5400; 5606; 5609; 5674; 5817; 5972
Sau96I	G!GNCC	16	83; 276; 760; 1003; 1095; 1116; 1200; 1731; 2547; 2634; 3203; 4612; 5057; 5103; 5161; 5194
Sau3AI	!GATC	25	585; 1124; 1150; 1330; 1712; 2243; 2731; 2740; 2753; 3933; 3937; 3956; 4267; 4345; 4426; 4435; 4513; 4889; 4905; 5264; 5276; 5354; 5362; 5373; 5448
SbfI	CCTGCA!GG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	899; 3148; 3580
SchI	!NNNNNGACTC	6	404; 1319; 1507; 3155; 4761; 5638
SciI	CTC!GAG	0	
ScrFI	CC!NGG	31	90; 283; 787; 836; 931; 946; 1075; 1184; 1405; 1450; 1564; 1900; 1957; 2149; 2465; 2476; 2535; 2545; 3632; 3687; 3704; 4100; 4260; 4483; 4873; 5062; 5165; 5637; 5855; 5868; 5989
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	1041; 3674; 3746; 3915; 5857
SdeAI	!NNNNNNNNNNNNNNNNNNNCTYCTG	2	4251; 4736
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	21	667; 694; 727; 1442; 1562; 1694; 1762; 1925; 1964; 2115; 2156; 2416; 2541; 3287; 4042; 4135; 4209; 4399; 4461; 5171; 5704
SelI	!CGCG	15	58; 2982; 3018; 3394; 3414; 3438; 3469; 4160; 4461; 4899; 4983; 5046; 5115; 5388; 5969
SetI	ASST!	96	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; 1400; 1442; 1528; 1559; 1621; 1631; 1649; 1724; 1748; 1795; 1825; 1842; 1874; 1904; 1914; 2024; 2044; 2054; 2129; 2150; 2231; 2342; 2432; 2477; 2486; 2496; 2564; 2600; 2678; 2786; 2807; 2816; 2828; 2877; 3044; 3159; 3171; 3214; 3251; 3301; 3324; 3448; 3596; 3691; 3884; 3997; 4125; 4204; 4215; 4287; 4358; 4402; 4662; 4808; 4852; 5183; 5214; 5273; 5316; 5459; 5480; 5579; 5716; 5731; 5750; 5762; 5806; 5852; 5903
SexAI	A!CCWGGT	2	2147; 3685
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	13	848; 1363; 1394; 1469; 2174; 2402; 2444; 2912; 3675; 3747; 4395; 4459; 4734
SfaNI	!NNNNNNNNNGATGC	9	357; 1001; 1169; 1469; 1656; 4054; 4309; 4525; 5917
SfcI	C!TRYAG	5	1913; 2234; 3431; 5558; 5749
SfiI	GGCCNNNN!NGGCC	1	3871
SfoI	GGC!GCC	1	4097
Sfr274I	C!TCGAG	0	
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	1	4778
SgeI	CNNGNNNNNNNNN!	242	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; 1370; 1386; 1408; 1421; 1442; 1461; 1476; 1496; 1553; 1567; 1593; 1625; 1638; 1651; 1667; 1697; 1719; 1735; 1755; 1775; 1791; 1820; 1839; 1872; 1885; 1903; 1968; 1992; 2035; 2082; 2109; 2127; 2151; 2174; 2191; 2206; 2233; 2267; 2286; 2306; 2322; 2344; 2397; 2432; 2457; 2476; 2493; 2514; 2546; 2565; 2586; 2604; 2634; 2648; 2668; 2750; 2803; 2832; 2874; 2957; 2995; 3031; 3115; 3137; 3169; 3206; 3224; 3243; 3258; 3300; 3317; 3334; 3369; 3383; 3400; 3422; 3446; 3470; 3535; 3549; 3587; 3603; 3643; 3656; 3675; 3698; 3715; 3728; 3747; 3777; 3798; 3815; 3838; 3873; 3900; 3931; 3953; 3979; 4001; 4020; 4048; 4084; 4103; 4126; 4140; 4160; 4173; 4187; 4206; 4220; 4239; 4271; 4285; 4298; 4324; 4355; 4368; 4385; 4402; 4416; 4433; 4451; 4466; 4494; 4510; 4529; 4551; 4567; 4590; 4609; 4634; 4653; 4673; 4700; 4724; 4757; 4776; 4804; 4818; 4884; 4908; 4923; 4946; 4967; 4984; 5032; 5059; 5073; 5102; 5126; 5159; 5176; 5196; 5209; 5222; 5280; 5307; 5326; 5356; 5381; 5401; 5415; 5440; 5458; 5495; 5533; 5562; 5590; 5604; 5624; 5639; 5660; 5674; 5693; 5711; 5727; 5767; 5787; 5814; 5832; 5853; 5866; 5879; 5896; 5920; 5943; 5975; 6000; 6027; 6049

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	212	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; 1344; 1364; 1382; 1402; 1420; 1442; 1462; 1527; 1548; 1567; 1599; 1625; 1645; 1671; 1693; 1729; 1749; 1794; 1813; 1846; 1877; 1942; 1966; 2009; 2056; 2083; 2101; 2125; 2148; 2165; 2207; 2241; 2260; 2280; 2301; 2318; 2371; 2406; 2431; 2450; 2467; 2488; 2520; 2539; 2560; 2578; 2608; 2642; 2724; 2777; 2806; 2848; 2931; 2969; 3005; 3089; 3111; 3143; 3180; 3198; 3217; 3274; 3291; 3308; 3343; 3361; 3381; 3401; 3420; 3444; 3509; 3561; 3617; 3649; 3672; 3689; 3721; 3751; 3772; 3789; 3812; 3847; 3874; 3905; 3927; 3953; 3975; 3994; 4022; 4058; 4077; 4100; 4121; 4139; 4156; 4180; 4213; 4245; 4272; 4298; 4329; 4359; 4376; 4402; 4425; 4446; 4468; 4488; 4508; 4525; 4564; 4583; 4608; 4627; 4647; 4674; 4698; 4731; 4750; 4778; 4800; 4858; 4882; 4901; 4920; 4941; 4958; 5006; 5033; 5053; 5076; 5100; 5133; 5150; 5170; 5196; 5254; 5281; 5300; 5330; 5355; 5375; 5414; 5432; 5469; 5507; 5536; 5564; 5585; 5613; 5634; 5667; 5685; 5741; 5761; 5788; 5806; 5827; 5853; 5870; 5894; 5917; 5949; 5974; 6001; 6023; 6052
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 3243; 5030; 5823
SimI	!GACCC	5	106; 2289; 4524; 5092; 5340
SinI	G!GWCC	5	1200; 1731; 2547; 4612; 5057
SlaI	C!TCGAG	0	
SmaI	CCC!GGG	1	1564
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 613; 643; 2458; 4533
SmII	C!TYRAG	7	1135; 1174; 2656; 4487; 5369; 5646; 5908
SmoI	C!TYRAG	7	1135; 1174; 2656; 4487; 5369; 5646; 5908
SmuI	CCCGCNNNN!	11	93; 119; 286; 1068; 1170; 2170; 3418; 3773; 3794; 4990; 5122
SmuI	!NNNNNNGCGGG	6	1105; 3349; 4219; 4756; 4894; 5041
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	2505; 3666; 3738; 4501
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	12	18; 1736; 2134; 2846; 2910; 2988; 3014; 3025; 3672; 3744; 3836; 5254
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	3	1039; 2533; 3917
SsiI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1623; 2058; 2163; 3411; 3414; 3428; 3518; 3766; 3778; 3787; 3799; 3809; 3820; 3866; 4005; 4068; 4570; 4615; 4681; 4707; 4832; 4835; 4983; 5115; 5422; 5566; 6062
SsiI	G!CGG	29	370; 403; 528; 758; 1070; 1112; 1340; 1361; 1367; 3356; 3383; 3471; 3581; 4162; 4226; 4327; 4330; 4610; 4665; 4763; 4901; 5048; 5188; 5431; 5676; 5797; 5816; 5943; 5971
SspI	AAT!ATT	2	3004; 3557
SspDI	G!GCGCC	1	4095
SspD5I	GGTGANNNNNNNN!	10	376; 627; 996; 1306; 2292; 2347; 2614; 2716; 5167; 5283
SspD5I	!NNNNNNNNNTCACC	6	884; 1811; 1931; 2237; 3212; 4273
SstI	GAGCT!C	1	1442
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	1	929
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	24	92; 118; 285; 851; 1067; 1169; 1190; 1475; 1569; 1692; 2169; 2643; 3295; 3417; 3772; 3793; 4106; 4509; 4648; 4719; 4989; 5121; 5351; 5789
Sth132I	!NNNNNNNNCGGG	23	15; 407; 470; 827; 900; 1104; 1532; 1555; 3296; 3348; 3449; 4176; 4218; 4251; 4755; 4864; 4893; 5040; 5144; 5175; 5628; 5672; 5880

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sth302II	CC!GG	24	602; 836; 1185; 1323; 1359; 1564; 1764; 2739; 3315; 4002; 4079; 4101; 4129; 4260; 4350; 4417; 4598; 4873; 4881; 4973; 5447; 5637; 5663; 5810
StrI	C!TCGAG	0	
StsI	GGATGNNNNNNNNNN!	5	2623; 3964; 4421; 4446; 4900
StsI	!NNNNNNNNNNNNNNCATCC	10	680; 768; 825; 1340; 1377; 1446; 1920; 2151; 2379; 3768
StuI	AGG!CCT	3	1039; 2533; 3917
StyI	C!CWWGG	8	360; 611; 2298; 2480; 3825; 3918; 4528; 4933
StyD4I	!CCNGG	31	88; 281; 785; 834; 929; 944; 1073; 1182; 1403; 1448; 1562; 1898; 1955; 2147; 2463; 2474; 2533; 2543; 3630; 3685; 3702; 4098; 4258; 4481; 4871; 5060; 5163; 5635; 5853; 5866; 5987
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	17	76; 198; 269; 543; 581; 669; 1593; 2332; 2457; 3187; 4476; 4592; 4700; 5023; 5514; 5984; 6055
TaiI	ACGT!	22	125; 137; 178; 261; 342; 447; 971; 1199; 1247; 1400; 1559; 1842; 2342; 2600; 3159; 3171; 3214; 3324; 4215; 4402; 5183; 5316
TaqI	T!CGA	16	752; 779; 1247; 2024; 2030; 3245; 3936; 4209; 4365; 4389; 4425; 4587; 4778; 4823; 5078; 5916
TaqII	GACCGANNNNNNNNNN!	4	1748; 3116; 4133; 4801
TaqII	!NNNNNNNNNTCGGTC	1	5045
TaqII	CACCCANNNNNNNNNN!	2	742; 1960
TaqII	!NNNNNNNNNTGGGTG	4	172; 2590; 4000; 4592
TasI	!AATT	12	18; 1736; 2134; 2846; 2910; 2988; 3014; 3025; 3672; 3744; 3836; 5254
TatI	W!GTACW	5	217; 297; 330; 381; 653
TauI	GCSG!C	17	761; 1073; 3416; 3430; 3868; 4007; 4070; 4165; 4330; 4333; 4572; 4668; 4709; 4837; 5191; 5819; 5974
TfiI	G!AWTC	8	740; 1217; 2686; 4581; 4715; 4825; 4862; 6040
TliI	C!TCGAG	0	
TruII	T!TAA	18	7; 629; 854; 2054; 2797; 2858; 2979; 3000; 3011; 3023; 3034; 3051; 3149; 3420; 5239; 5253; 5258; 5310
Tru9I	T!TAA	18	7; 629; 854; 2054; 2797; 2858; 2979; 3000; 3011; 3023; 3034; 3051; 3149; 3420; 5239; 5253; 5258; 5310
TscAI	CASTGNN!	12	1539; 1617; 1762; 2094; 2424; 2460; 2596; 2942; 4225; 5335; 5606; 5619
TseI	G!CWGC	24	809; 953; 1251; 1337; 1349; 1644; 1669; 2318; 2362; 2390; 2650; 2872; 3391; 4056; 4157; 4199; 4240; 4333; 4720; 5173; 5399; 5605; 5608; 5673
TsoI	TARCCANNNNNNNNNN!	3	2083; 3068; 3415
TsoI	!NNNNNNNNNTGGYTA	3	778; 2873; 4625
Tsp45I	!GTSAC	8	891; 1087; 1486; 2287; 2335; 3385; 4216; 4522
Tsp509I	!AATT	12	18; 1736; 2134; 2846; 2910; 2988; 3014; 3025; 3672; 3744; 3836; 5254
TspDTI	ATGAANNNNNNNNNN!	6	661; 1616; 2237; 2854; 4155; 4859
TspDTI	!NNNNNNNNNTTCAT	7	26; 789; 810; 1968; 4573; 5029; 5236
TspEI	!AATT	12	18; 1736; 2134; 2846; 2910; 2988; 3014; 3025; 3672; 3744; 3836; 5254
TspGWI	ACGGANNNNNNNNNN!	1	4971
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1562
TspRI	CASTGNN!	12	1539; 1617; 1762; 2094; 2424; 2460; 2596; 2942; 4225; 5335; 5606; 5619
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	4214
Tth111II	CAARCANNNNNNNNNNN!	3	841; 1567; 5423
Tth111II	!NNNNNNNNNTGYTTG	5	1561; 2243; 4531; 5391; 5430
UnbI	!GGNCC	16	82; 275; 759; 1002; 1094; 1115; 1199; 1730; 2546; 2633; 3202; 4611; 5056; 5102; 5160; 5193
Van91I	CCANNNN!NTGG	2	1209; 2403
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	3	690; 1758; 5700
VpaK11AI	!GWCC	5	1199; 1730; 2546; 4611; 5056
VpaK11BI	G!GWCC	5	1200; 1731; 2547; 4612; 5057

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	2	2479; 2659
XapI	R!AATTY	5	1736; 2134; 2910; 3014; 3025
XbaI	T!CTAGA	1	2743
XceI	RCATG!Y	7	642; 1088; 2505; 3666; 3738; 4501; 6018
XcmI	CCANNNNN!NNNNTGG	1	1795
XhoI	C!TCGAG	0	
XhoII	R!GATCY	12	585; 1150; 1330; 2731; 2740; 4267; 4513; 4905; 5264; 5276; 5362; 5373
XmaI	C!CCGGG	1	1562
XmaJI	C!CTAGG	2	3918; 4933
XmiI	GT!MKAC	3	1190; 1577; 1985
XmnI	GAANN!NNTTC	1	1809
XspI	C!TAG	8	592; 2744; 2945; 3363; 3919; 4934; 5268; 5521
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3668; 3740; 6071