

pTagRFP-Golgi vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1718; 1923
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2006; 2962; 4751
AatI	AGG!CCT	1	2756
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1450
AccII	CG!CG	18	60; 633; 645; 730; 1584; 1859; 2235; 2255; 2279; 2310; 3001; 3302; 3740; 3824; 3887; 3956; 4229; 4810
AccIII	T!CCGGA	1	826
Acc16I	TGC!GCA	1	3037
Acc36I	ACCTGCNNNN!	2	3203; 3653
Acc36I	!NNNNNNNNGCAGGT	1	2822
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	6	465; 924; 984; 2088; 2934; 2969
AccB7I	CCANNNN!NTGG	1	1469
AccBSI	CCG!CTC	3	614; 2359; 3548
AccBSI	GAG!CGG	4	622; 1578; 2195; 3602
AceIII	CAGCTCNNNNNNN!	1	1891
AceIII	!NNNNNNNNNNGAGCTG	2	552; 870
AcI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 612; 631; 665; 728; 740; 771; 796; 799; 1183; 1321; 1423; 1582; 2250; 2253; 2267; 2357; 2605; 2617; 2626; 2638; 2648; 2659; 2705; 2844; 2907; 3409; 3454; 3520; 3546; 3671; 3674; 3822; 3954; 4261; 4405; 4901
AcI	G!CGG	30	370; 403; 528; 622; 656; 781; 1018; 1330; 1372; 1578; 2195; 2222; 2310; 2420; 3001; 3065; 3166; 3169; 3449; 3504; 3602; 3740; 3887; 4027; 4270; 4515; 4636; 4655; 4782; 4810
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	8	853; 2803; 3114; 3360; 3752; 4111; 4209; 4295
AcIWI	!NNNNNGATCC	7	580; 840; 1405; 3179; 3723; 4110; 4207
AcoI	Y!GGCCR	8	676; 725; 1528; 1579; 2841; 3015; 3406; 3433
AcsI	R!AATTY	3	1749; 1853; 1864
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	1380; 3081; 3513
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4311
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 700; 1447; 2935; 3637; 3716
AdeI	CACNNN!GTG	2	1520; 2051
AfaI	GT!AC	10	219; 244; 299; 332; 383; 540; 915; 1065; 1317; 3241
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	25	49; 655; 674; 777; 805; 981; 1094; 1260; 1326; 1469; 1947; 2273; 2665; 2916; 3460; 3741; 3773; 3905; 3940; 3990; 4022; 4375; 4654; 4820; 4838
AfIII	C!TTAAG	1	1817
AfIII	A!CRYGT	1	4853
AgeI	A!CCGGT	1	851
AgsI	TTS!AA	7	947; 1397; 2346; 2390; 2400; 2813; 4389
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
Ajni	!CCWGG	18	88; 281; 638; 718; 1045; 1093; 1189; 1204; 1333; 2469; 2524; 2541; 3320; 3899; 4002; 4692; 4705; 4826
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	1	864
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2509; 2581
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	2	2475; 2547
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	2	1271; 2017
AloI	!NNNNNNNNGGANNNNNNNGTTC	0	
AloI	GGANNNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	2	1239; 1985
AluI	AG!CT	17	566; 824; 884; 911; 1057; 1364; 1714; 1881; 2138; 2433; 2721; 3041; 3499; 4296; 4553; 4599; 4689
AluBI	AG!CT	17	566; 824; 884; 911; 1057; 1364; 1714; 1881; 2138; 2433; 2721; 3041; 3499; 4296; 4553; 4599; 4689
AlwI	GGATCNNNN!	8	853; 2803; 3114; 3360; 3752; 4111; 4209; 4295
AlwI	!NNNNNGATCC	7	580; 840; 1405; 3179; 3723; 4110; 4207
Alw21I	GWGCW!C	5	826; 954; 3048; 3238; 4543
Alw26I	GTCTCN!	2	434; 767
Alw26I	!NNNNNGAGAC	5	1491; 2359; 2777; 3796; 3924
Alw44I	G!TGAC	2	950; 4539
AlwNI	CAGNN!CTG	3	1537; 4036; 4444
Ama87I	C!YCGRG	0	
Aor13HI	T!CCGGA	1	826
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	3	2503; 2575; 4037
ApaLI	G!TGAC	2	950; 4539
ApeKI	G!CWGC	18	625; 773; 1069; 1213; 1511; 1711; 2230; 2895; 2996; 3038; 3079; 3172; 3559; 4012; 4238; 4444; 4447; 4512
ApoI	R!AATTY	3	1749; 1853; 1864
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3450
ApyPI	!NNNNNNNNNNNNNNNNNNGTTCGAT	3	3244; 3897; 4735
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3334
AquII	!NNNNNNNNNNNNNNNNNNGTNCGGC	1	1045
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2763
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	3505
ArsI	GACNNNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	22	586; 846; 1235; 1385; 1411; 1593; 2773; 2777; 2796; 3107; 3185; 3266; 3275; 3353; 3729; 3745; 4104; 4116; 4194; 4202; 4213; 4288
AsiGI	A!CCGGT	1	851
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3053
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	2757; 3772
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	23	630; 645; 687; 2201; 2209; 2235; 2257; 2266; 2279; 2310; 2929; 2937; 3001; 3038; 3304; 3564; 3740; 3826; 4229; 4338; 4512; 4612; 4679
AspS9I	G!GNCC	16	83; 276; 658; 829; 838; 1020; 1263; 1355; 1376; 1460; 2042; 3451; 3896; 3942; 4000; 4033
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	3617
AsuC2I	CC!SGG	6	818; 1444; 2939; 3099; 3712; 4476
AsuHPI	GGTGANNNNNNNN!	4	376; 1256; 4006; 4122
AsuHPI	!NNNNNNNTCACC	4	695; 1145; 2052; 3113
AsuNH1	G!CTAGC	1	591
AvaI	C!YCGRG	0	
AvaII	G!GWCC	4	829; 1460; 3451; 3896
AviII	TGC!GCA	1	3037
AvrII	C!CTAGG	2	2757; 3772

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AxyI	CC!TNAGG	3	1129; 2415; 4047
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI!C	7	927; 954; 987; 1564; 2881; 2974; 4543
BalI	TGG!CCA	2	1530; 3017
BamHI	G!GATCC	1	845
BanI	G!GYRCC	6	465; 924; 984; 2088; 2934; 2969
BanII	GRGCY!C	4	826; 2126; 3300; 4010
BanIII	AT!CGAT	1	2775
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	1469
BauI	C!ACGAG	3	1515; 3653; 4680
BauI	C!TCGTG	3	672; 1365; 3527
BbeI	GGCGC!C	1	2938
Bbr7I	GAAGACNNNNNNNN!	1	1176
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	1171
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2505; 2577; 3340
BbvI	GCAGCNNNNNNNN!	9	637; 1081; 1523; 1723; 3008; 3050; 3571; 4024; 4524
BbvI	!NNNNNNNNNNNGCTGC	8	760; 1200; 2217; 2882; 3066; 3159; 4225; 4431
Bbv12I	GWGCW!C	5	826; 954; 3048; 3238; 4543
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	810; 1262; 2065; 2629; 3155; 3657
BccI	!NNNNNGATGG	3	2033; 2813; 3241
BceAI	ACGGCNNNNNNNNNNNN!	6	1082; 1226; 1277; 1343; 3361; 3848
BceAI	!NNNNNNNNNNNNNGCCGT	4	663; 2076; 2894; 4353
BceFI	ACGGCNNNNNNNNNNNN!	6	1082; 1226; 1277; 1343; 3361; 3848
BceFI	!NNNNNNNNNNNNNGCCGT	4	664; 2077; 2895; 4354
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2364; 3154; 4655
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	6	818; 1444; 2939; 3099; 3712; 4476
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNNN!	1	4788
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	1	4754
BfaI	C!TAG	9	592; 1549; 1590; 1784; 2202; 2758; 3773; 4107; 4360
BfiI	ACTGGGNNNNN!	2	1566; 2884
BfiI	!NNNNCCCAGT	2	289; 2636
BfmI	C!TRYAG	5	651; 774; 2270; 4397; 4588
BfoI	RGCGC!Y	5	631; 2202; 2210; 2938; 4613
BfrI	C!TTAAG	1	1817
BfuI	GTATCCNNNNNN!	3	2364; 3154; 4655
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3203; 3653
BfuAI	!NNNNNNNNNGCAGGT	1	2822
BfuCI	!GATC	22	585; 845; 1234; 1384; 1410; 1592; 2772; 2776; 2795; 3106; 3184; 3265; 3274; 3352; 3728; 3744; 4103; 4115; 4193; 4201; 4212; 4287
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1339; 2710
BglII	A!GATCT	0	

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BisI	GC!NGC	45	612; 623; 626; 631; 665; 728; 740; 774; 782; 796; 799; 1019; 1070; 1214; 1331; 1512; 1582; 1712; 2231; 2253; 2267; 2705; 2844; 2896; 2907; 2997; 3002; 3039; 3080; 3167; 3170; 3173; 3409; 3505; 3546; 3560; 3674; 4013; 4028; 4239; 4445; 4448; 4513; 4656; 4811
BlnI	C!CTAGG	2	2757; 3772
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	45	613; 624; 627; 632; 666; 729; 741; 775; 783; 797; 800; 1020; 1071; 1215; 1332; 1513; 1583; 1713; 2232; 2254; 2268; 2706; 2845; 2897; 2908; 2998; 3003; 3040; 3081; 3168; 3171; 3174; 3410; 3506; 3547; 3561; 3675; 4014; 4029; 4240; 4446; 4449; 4514; 4657; 4812
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	4	829; 1460; 3451; 3896
Bme1390I	CC!NGG	24	90; 283; 640; 720; 818; 1047; 1095; 1191; 1206; 1335; 1444; 2471; 2526; 2543; 2939; 3099; 3322; 3712; 3901; 4004; 4476; 4694; 4707; 4828
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	0	
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	16	84; 277; 659; 830; 839; 1021; 1264; 1356; 1377; 1461; 2043; 3452; 3897; 3943; 4001; 4034
BmiI	GGN!NCC	20	467; 610; 839; 847; 926; 986; 1377; 2090; 2111; 2123; 2314; 2475; 2547; 2936; 2971; 3819; 3898; 3943; 4786; 4825
BmrI	ACTGGGNNNNN!	2	1566; 2884
BmrI	!NNNNCCCAGT	2	289; 2636
BmrFI	CC!NGG	24	90; 283; 640; 720; 818; 1047; 1095; 1191; 1206; 1335; 1444; 2471; 2526; 2543; 2939; 3099; 3322; 3712; 3901; 4004; 4476; 4694; 4707; 4828
BmsI	GCATCNNNNN!	7	1108; 1751; 2514; 2586; 3234; 3298; 3573
BmsI	!NNNNNNNNNGATGC	9	357; 625; 1261; 1300; 1429; 2893; 3148; 3364; 4756
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1566; 2884
BmuI	!NNNNCCCAGT	2	289; 2636
BoxI	GACNN!NNGTC	1	1503
BpiI	GAAGACNN!	1	1171
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNNN!	2	2724; 3623
BpI	!NNNNNNNNNGAGNNNNNNCTC	2	2692; 3591
BpmI	CTGGAGNNNNNNNNNNNNNNNNN!	1	3775
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	2	1188; 3718
Bpu10I	CC!TNAGC	2	618; 735
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	3617
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	1171
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNNN!	2	4229; 4768
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	3	1419; 3311; 4470
BpuMI	CC!SGG	6	818; 1444; 2939; 3099; 3712; 4476
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1491; 3924
Bsa29I	AT!CGAT	1	2775
BsaAI	YAC!GTR	3	340; 2051; 3239
BsaBI	GATNN!NNATC	2	1597; 2794
BsaHI	GR!CGYC	9	122; 175; 258; 444; 700; 1447; 2935; 3637; 3716
BsaJI	C!CNNGG	23	360; 695; 817; 841; 862; 958; 1093; 1094; 1189; 2469; 2541; 2664; 2699; 2708; 2757; 3098; 3367; 3772; 3899; 3900; 4002; 4003; 4693
BsaMI	GAATGCN!	1	1686
BsaMI	G!CATTC	1	1779
BsaWI	W!CCGGW	7	826; 831; 851; 2966; 3810; 4500; 4647
BsaXI	ACNNNNNCTCCNNNNNNNNNNN!	1	2015
BsaXI	!NNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNNN!	0	

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BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1985
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	1	1327
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	1936; 3843
Bsc4I	CCNNNN!NNGG	25	49; 655; 674; 777; 805; 981; 1094; 1260; 1326; 1469; 1947; 2273; 2665; 2916; 3460; 3741; 3773; 3905; 3940; 3990; 4022; 4375; 4654; 4820; 4838
BscAI	GCATCNNNN!	7	1107; 1750; 2513; 2585; 3233; 3297; 3572
BscAI	!NNNNNGATGC	9	360; 628; 1264; 1303; 1432; 2896; 3151; 3367; 4759
BseI	ACTGGN!	6	757; 1474; 1561; 2879; 3080; 4326
BseI	C!CAGT	5	295; 1964; 2642; 4438; 4451
Bse8I	GATNN!NNATC	2	1597; 2794
Bse21I	CC!TNAGG	3	1129; 2415; 4047
Bse118I	R!CCGGY	5	851; 2152; 3254; 3435; 3718
BseAI	T!CCGGA	1	826
BseBI	CC!WGG	18	90; 283; 640; 720; 1047; 1095; 1191; 1206; 1335; 2471; 2526; 2543; 3322; 3901; 4004; 4694; 4707; 4828
BseCI	AT!CGAT	1	2775
BseDI	C!CNNGG	23	360; 695; 817; 841; 862; 958; 1093; 1094; 1189; 2469; 2541; 2664; 2699; 2708; 2757; 3098; 3367; 3772; 3899; 3900; 4002; 4003; 4693
Bse3DI	GCAATGNN!	1	3168
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2795; 3252; 3277; 3731
BseGI	!CATCC	5	954; 1042; 1099; 1254; 2621
BseJI	GATNN!NNATC	2	1597; 2794
BseLI	CCNNNN!NNGG	25	49; 655; 674; 777; 805; 981; 1094; 1260; 1326; 1469; 1947; 2273; 2665; 2916; 3460; 3741; 3773; 3905; 3940; 3990; 4022; 4375; 4654; 4820; 4838
BseMI	GCAATGNN!	1	3168
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	4061
BseMII	!NNNNNNNCTGAG	8	609; 726; 1120; 2406; 2708; 3589; 4161; 4570
BseNI	ACTGGN!	6	757; 1474; 1561; 2879; 3080; 4326
BseNI	C!CAGT	5	295; 1964; 2642; 4438; 4451
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2753
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	7	927; 954; 987; 1564; 2881; 2974; 4543
BseXI	GCAGCNNNNNNNN!	9	637; 1081; 1523; 1723; 3008; 3050; 3571; 4024; 4524
BseXI	!NNNNNNNNNNNGCTGC	8	760; 1200; 2217; 2882; 3066; 3159; 4225; 4431
BseX3I	C!GGCCG	2	1579; 2841
BseYI	C!CCAGC	3	2478; 2550; 4549
BseYI	G!CTGGG	2	1291; 3439
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	1	675
Bsh1236I	CG!CG	18	60; 633; 645; 730; 1584; 1859; 2235; 2255; 2279; 2310; 3001; 3302; 3740; 3824; 3887; 3956; 4229; 4810
Bsh1285I	CGRY!CG	4	856; 1582; 2844; 4519
BshFI	GG!CC	32	84; 277; 660; 678; 727; 840; 1021; 1264; 1299; 1333; 1356; 1378; 1488; 1530; 1581; 1901; 2043; 2698; 2704; 2713; 2756; 2843; 3017; 3408; 3435; 3944; 4001; 4034; 4379; 4813; 4831; 4842
BshNI	G!GYRCC	6	465; 924; 984; 2088; 2934; 2969
BshTI	A!CCGGT	1	851
BshVI	AT!CGAT	1	2775
BsiEI	CGRY!CG	4	856; 1582; 2844; 4519
BsiHKAI	GWGCW!C	5	826; 954; 3048; 3238; 4543
BsiHKCI	C!YCGRG	0	
BsiSI	C!CGG	21	817; 827; 832; 852; 1444; 2153; 2840; 2917; 2939; 2967; 3098; 3188; 3255; 3436; 3711; 3719; 3811; 4285; 4475; 4501; 4648
BsiWI	C!GTACG	0	
BsII	CCNNNN!NNGG	25	49; 655; 674; 777; 805; 981; 1094; 1260; 1326; 1469; 1947; 2273; 2665; 2916; 3460; 3741; 3773; 3905; 3940; 3990; 4022; 4375; 4654; 4820; 4838
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3086; 3618; 3727
BsIFI	!NNNNNNNNNNNNNGTCCC	5	632; 2451; 2523; 2587; 3882

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BsmI	GAATGCN!	1	1686
BsmI	G!CATTC	1	1779
BsmAI	GTCTCN!	2	434; 767
BsmAI	!NNNNNGAGAC	5	1491; 2359; 2777; 3796; 3924
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3086; 3618; 3727
BsmFI	!NNNNNNNNNNNNNGTCCC	5	632; 2451; 2523; 2587; 3882
BsnI	GG!CC	32	84; 277; 660; 678; 727; 840; 1021; 1264; 1299; 1333; 1356; 1378; 1488; 1530; 1581; 1901; 2043; 2698; 2704; 2713; 2756; 2843; 3017; 3408; 3435; 3944; 4001; 4034; 4379; 4813; 4831; 4842
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	1491; 3924
BsoBI	C!YCGRG	0	
Bsp13I	T!CCGGA	1	826
Bsp19I	C!CATGG	4	360; 862; 2664; 3367
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3738
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	4159; 4337
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4191; 4369
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3706
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	3617
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	22	585; 845; 1234; 1384; 1410; 1592; 2772; 2776; 2795; 3106; 3184; 3265; 3274; 3352; 3728; 3744; 4103; 4115; 4193; 4201; 4212; 4287
Bsp1286I	GDGCH!C	13	826; 927; 954; 987; 1564; 2126; 2881; 2974; 3048; 3238; 3300; 4010; 4543
Bsp1407I	T!GTACA	1	913
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 612; 631; 665; 728; 740; 771; 796; 799; 1183; 1321; 1423; 1582; 2250; 2253; 2267; 2357; 2605; 2617; 2626; 2638; 2648; 2659; 2705; 2844; 2907; 3409; 3454; 3520; 3546; 3671; 3674; 3822; 3954; 4261; 4405; 4901
BspACI	G!CGG	30	370; 403; 528; 622; 656; 781; 1018; 1330; 1372; 1578; 2195; 2222; 2310; 2420; 3001; 3065; 3166; 3169; 3449; 3504; 3602; 3740; 3887; 4027; 4270; 4515; 4636; 4655; 4782; 4810
BspCNI	CTCAGNNNNNNNN!	1	4060
BspCNI	!NNNNNNCTGAG	8	610; 727; 1121; 2407; 2709; 3590; 4162; 4571
BspDI	AT!CGAT	1	2775
BspD6I	GACTCNNNN!	5	418; 1594; 2008; 3614; 4491
BspD6I	!NNNNNGAGTC	4	753; 1143; 1971; 2403
BspEI	T!CCGGA	1	826
BspFNI	CG!CG	18	60; 633; 645; 730; 1584; 1859; 2235; 2255; 2279; 2310; 3001; 3302; 3740; 3824; 3887; 3956; 4229; 4810
BspHI	T!CATGA	2	2361; 4133
BspLI	GGN!NCC	20	467; 610; 839; 847; 926; 986; 1377; 2090; 2111; 2123; 2314; 2475; 2547; 2936; 2971; 3819; 3898; 3943; 4786; 4825
BspMI	ACCTGCNNNN!	2	3203; 3653
BspMI	!NNNNNNNGCAGGT	1	2822
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	853; 2803; 3114; 3360; 3752; 4111; 4209; 4295
BspPI	!NNNNNGATCC	7	580; 840; 1405; 3179; 3723; 4110; 4207
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	874; 3279; 3489
BspTI	C!TTAAG	1	1817
BspT104I	TT!CGAA	1	3617
BspT107I	G!GYRCC	6	465; 924; 984; 2088; 2934; 2969
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1491; 3924
BsrI	ACTGGN!	6	757; 1474; 1561; 2879; 3080; 4326
BsrI	C!CAGT	5	295; 1964; 2642; 4438; 4451
BsrBI	CCG!CTC	3	614; 2359; 3548
BsrBI	GAG!CGG	4	622; 1578; 2195; 3602
BsrDI	GCAATGNN!	1	3168

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	5	851; 2152; 3254; 3435; 3718
BsrGI	T!GTACA	1	913
BsrSI	ACTGGN!	6	757; 1474; 1561; 2879; 3080; 4326
BsrSI	C!CAGT	5	295; 1964; 2642; 4438; 4451
BssAI	R!CCGGY	5	851; 2152; 3254; 3435; 3718
BssECI	C!CNNGG	23	360; 695; 817; 841; 862; 958; 1093; 1094; 1189; 2469; 2541; 2664; 2699; 2708; 2757; 3098; 3367; 3772; 3899; 3900; 4002; 4003; 4693
BssHII	G!CGCGC	0	
BssKI	!CCNGG	24	88; 281; 638; 718; 816; 1045; 1093; 1189; 1204; 1333; 1442; 2469; 2524; 2541; 2937; 3097; 3320; 3710; 3899; 4002; 4474; 4692; 4705; 4826
BssMI	!GATC	22	585; 845; 1234; 1384; 1410; 1592; 2772; 2776; 2795; 3106; 3184; 3265; 3274; 3352; 3728; 3744; 4103; 4115; 4193; 4201; 4212; 4287
BssNI	GR!CGYC	9	122; 175; 258; 444; 700; 1447; 2935; 3637; 3716
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1515; 3653; 4680
BssSI	C!TCGTG	3	672; 1365; 3527
BssTII	C!CWWGG	8	360; 695; 841; 862; 2664; 2757; 3367; 3772
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	874; 2402; 3279; 3489
Bst98I	C!TTAAG	1	1817
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 700; 1447; 2935; 3637; 3716
BstAFI	C!TTAAG	1	1817
BstAPI	GCANNNN!NTGC	3	2502; 2574; 4036
BstAUI	T!GTACA	1	913
BstBI	TT!CGAA	1	3617
Bst2BI	C!ACGAG	3	1515; 3653; 4680
Bst2BI	C!TCGTG	3	672; 1365; 3527
BstBAI	YAC!GTR	3	340; 2051; 3239
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 792; 929; 2026; 3315; 3431; 3539; 3862; 4353; 4823; 4894
BstC8I	GCN!NGC	34	86; 279; 593; 658; 662; 669; 725; 744; 972; 1176; 2154; 2197; 2211; 2484; 2503; 2556; 2575; 2829; 3015; 3234; 3300; 3306; 3338; 3379; 3383; 3437; 3720; 3907; 3954; 4010; 4032; 4243; 4803; 4840
BstDEI	C!TNAG	11	618; 735; 871; 1129; 1426; 2415; 2717; 3598; 4047; 4170; 4579
BstDSI	C!CRYGG	4	360; 862; 2664; 3367
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2795; 3252; 3277; 3731
BstF5I	!CATCC	5	954; 1042; 1099; 1254; 2621
BstFNI	CG!CG	18	60; 633; 645; 730; 1584; 1859; 2235; 2255; 2279; 2310; 3001; 3302; 3740; 3824; 3887; 3956; 4229; 4810
BstH2I	RGCGC!Y	5	631; 2202; 2210; 2938; 4613
BstHHI	GCG!C	23	630; 645; 687; 2201; 2209; 2235; 2257; 2266; 2279; 2310; 2929; 2937; 3001; 3038; 3304; 3564; 3740; 3826; 4229; 4338; 4512; 4612; 4679
BstKTI	GAT!C	22	588; 848; 1237; 1387; 1413; 1595; 2775; 2779; 2798; 3109; 3187; 3268; 3277; 3355; 3731; 3747; 4106; 4118; 4196; 4204; 4215; 4290
BstMAI	GTCTCN!	2	434; 767
BstMAI	!NNNNGAGAC	5	1491; 2359; 2777; 3796; 3924
BstMBI	!GATC	22	585; 845; 1234; 1384; 1410; 1592; 2772; 2776; 2795; 3106; 3184; 3265; 3274; 3352; 3728; 3744; 4103; 4115; 4193; 4201; 4212; 4287
BstMCI	CGRY!CG	4	856; 1582; 2844; 4519
BstMWI	GCNNNNN!NNGC	30	90; 212; 244; 283; 376; 400; 608; 684; 736; 908; 1339; 2162; 2192; 2219; 2261; 2502; 2574; 2625; 2704; 2926; 3010; 3033; 3172; 3295; 3378; 3645; 3832; 4036; 4235; 4807
BstNI	CC!WGG	18	90; 283; 640; 720; 1047; 1095; 1191; 1206; 1335; 2471; 2526; 2543; 3322; 3901; 4004; 4694; 4707; 4828
BstNSI	RCATG!Y	5	902; 2505; 2577; 3340; 4857

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstOI	CC!WGG	18	90; 283; 640; 720; 1047; 1095; 1191; 1206; 1335; 2471; 2526; 2543; 3322; 3901; 4004; 4694; 4707; 4828
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1503
BstSCI	!CCNGG	24	88; 281; 638; 718; 816; 1045; 1093; 1189; 1204; 1333; 1442; 2469; 2524; 2541; 2937; 3097; 3320; 3710; 3899; 4002; 4474; 4692; 4705; 4826
BstSFI	C!TRYAG	5	651; 774; 2270; 4397; 4588
BstSLI	GKGCM!C	7	927; 954; 987; 1564; 2881; 2974; 4543
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	18	60; 633; 645; 730; 1584; 1859; 2235; 2255; 2279; 2310; 3001; 3302; 3740; 3824; 3887; 3956; 4229; 4810
Bst2UI	CC!WGG	18	90; 283; 640; 720; 1047; 1095; 1191; 1206; 1335; 2471; 2526; 2543; 3322; 3901; 4004; 4694; 4707; 4828
BstV1I	GCAGCNNNNNNN!	9	637; 1081; 1523; 1723; 3008; 3050; 3571; 4024; 4524
BstV1I	!NNNNNNNNNNNGCTGC	8	760; 1200; 2217; 2882; 3066; 3159; 4225; 4431
BstV2I	GAAGACNN!	1	1171
BstV2I	!NNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	10	585; 845; 1410; 3106; 3352; 3744; 4103; 4115; 4201; 4212
BstYI	R!GATCY	10	585; 845; 1410; 3106; 3352; 3744; 4103; 4115; 4201; 4212
BstZI	C!GGCCG	2	1579; 2841
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2364; 3154; 4655
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2775
Bsu36I	CC!TNAGG	3	1129; 2415; 4047
BsuRI	GG!CC	32	84; 277; 660; 678; 727; 840; 1021; 1264; 1299; 1333; 1356; 1378; 1488; 1530; 1581; 1901; 2043; 2698; 2704; 2713; 2756; 2843; 3017; 3408; 3435; 3944; 4001; 4034; 4379; 4813; 4831; 4842
BsuTUI	AT!CGAT	1	2775
BtgI	C!CRYGG	4	360; 862; 2664; 3367
BtgZI	GCGATGNNNNNNNNNN!	3	648; 2052; 3387
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3206; 3550
BthCI	GCNG!C	45	614; 625; 628; 633; 667; 730; 742; 776; 784; 798; 801; 1021; 1072; 1216; 1333; 1514; 1584; 1714; 2233; 2255; 2269; 2707; 2846; 2898; 2909; 2999; 3004; 3041; 3082; 3169; 3172; 3175; 3411; 3507; 3548; 3562; 3676; 4015; 4030; 4241; 4447; 4450; 4515; 4658; 4813
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1774
BtsCI	GGATGNN!	4	2795; 3252; 3277; 3731
BtsCI	!CATCC	5	954; 1042; 1099; 1254; 2621
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3203; 3653
BveI	!NNNNNNNNNGCAGGT	1	2822
Cac8I	GCN!NGC	34	86; 279; 593; 658; 662; 669; 725; 744; 972; 1176; 2154; 2197; 2211; 2484; 2503; 2556; 2575; 2829; 3015; 3234; 3300; 3306; 3338; 3379; 3383; 3437; 3720; 3907; 3954; 4010; 4032; 4243; 4803; 4840
CaiI	CAGNNN!CTG	3	1537; 4036; 4444
CciI	T!CATGA	2	2361; 4133
CciNI	GC!GGCCGC	1	1579
CdiI	CATC!G	6	352; 806; 3224; 3229; 3427; 3568
CdiI	C!GATG	3	634; 2038; 3373
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4807
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2596; 2638
CelII	GC!TNAGC	0	
CfoI	GCG!C	23	630; 645; 687; 2201; 2209; 2235; 2257; 2266; 2279; 2310; 2929; 2937; 3001; 3038; 3304; 3564; 3740; 3826; 4229; 4338; 4512; 4612; 4679
CfrI	Y!GGCCR	8	676; 725; 1528; 1579; 2841; 3015; 3406; 3433
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	5	851; 2152; 3254; 3435; 3718

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cfr13I	G!GNCC	16	83; 276; 658; 829; 838; 1020; 1263; 1355; 1376; 1460; 2042; 3451; 3896; 3942; 4000; 4033
Cfr42I	CCG!GG	0	
ChaI	GATC!	22	589; 849; 1238; 1388; 1414; 1596; 2776; 2780; 2799; 3110; 3188; 3269; 3278; 3356; 3732; 3748; 4107; 4119; 4197; 4205; 4216; 4291
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	966; 2752; 4192; 4292; 4370
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2419; 2514; 3706; 4256; 4811
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2453; 2548; 3740; 4290; 4845
CjeI	!NNNNNNNNCCANNNNNNGT	5	932; 2718; 4158; 4258; 4336
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	2	4192; 4370
CjePI	!NNNNNNNNGANNNNNNNTGG	5	257; 991; 1336; 3706; 4305
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	5	290; 1024; 1369; 3739; 4338
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	4159; 4337
Clal	AT!CGAT	1	2775
CpoI	CG!GWCCG	2	829; 3451
CseI	GACGCNNNNN!	3	526; 3645; 3724
CseI	!NNNNNNNNNNNGCGTC	6	634; 689; 1436; 2268; 4163; 4741
CsiI	A!CCWGGT	1	2524
CspI	CG!GWCCG	2	829; 3451
Csp6I	G!TAC	10	218; 243; 298; 331; 382; 539; 914; 1064; 1316; 3240
Csp45I	TT!CGAA	1	3617
CspAI	A!CCGGT	1	851
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	916; 1507; 2215; 3824
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	24	301; 361; 596; 863; 899; 905; 917; 995; 1061; 1141; 1352; 2362; 2502; 2574; 2665; 2806; 3151; 3337; 3368; 3394; 3750; 4134; 4854; 4905
CviJI	RG!CY	101	42; 84; 93; 277; 566; 602; 611; 660; 678; 723; 727; 739; 784; 824; 840; 884; 911; 974; 1021; 1050; 1057; 1135; 1201; 1213; 1264; 1291; 1299; 1333; 1356; 1364; 1378; 1488; 1524; 1530; 1581; 1604; 1714; 1881; 1901; 2043; 2124; 2138; 2152; 2433; 2474; 2546; 2669; 2698; 2704; 2713; 2721; 2744; 2756; 2762; 2843; 2860; 2868; 2895; 2920; 3004; 3013; 3017; 3041; 3079; 3155; 3172; 3191; 3254; 3298; 3308; 3325; 3408; 3435; 3439; 3476; 3499; 3515; 3695; 3722; 3783; 3905; 3944; 4001; 4008; 4015; 4034; 4045; 4296; 4325; 4368; 4379; 4444; 4523; 4548; 4553; 4599; 4689; 4787; 4813; 4831; 4842
CviKI-1	RG!CY	101	42; 84; 93; 277; 566; 602; 611; 660; 678; 723; 727; 739; 784; 824; 840; 884; 911; 974; 1021; 1050; 1057; 1135; 1201; 1213; 1264; 1291; 1299; 1333; 1356; 1364; 1378; 1488; 1524; 1530; 1581; 1604; 1714; 1881; 1901; 2043; 2124; 2138; 2152; 2433; 2474; 2546; 2669; 2698; 2704; 2713; 2721; 2744; 2756; 2762; 2843; 2860; 2868; 2895; 2920; 3004; 3013; 3017; 3041; 3079; 3155; 3172; 3191; 3254; 3298; 3308; 3325; 3408; 3435; 3439; 3476; 3499; 3515; 3695; 3722; 3783; 3905; 3944; 4001; 4008; 4015; 4034; 4045; 4296; 4325; 4368; 4379; 4444; 4523; 4548; 4553; 4599; 4689; 4787; 4813; 4831; 4842
CviQI	G!TAC	10	218; 243; 298; 331; 382; 539; 914; 1064; 1316; 3240
DdeI	C!TNAG	11	618; 735; 871; 1129; 1426; 2415; 2717; 3598; 4047; 4170; 4579
DinI	GGC!GCC	1	2936
DpnI	GA!TC	22	587; 847; 1236; 1386; 1412; 1594; 2774; 2778; 2797; 3108; 3186; 3267; 3276; 3354; 3730; 3746; 4105; 4117; 4195; 4203; 4214; 4289
DpnII	!GATC	22	585; 845; 1234; 1384; 1410; 1592; 2772; 2776; 2795; 3106; 3184; 3265; 3274; 3352; 3728; 3744; 4103; 4115; 4193; 4201; 4212; 4287
DraI	TTT!AAA	3	1637; 4079; 4098
DraII	RG!GNCCY	1	4033
DraIII	CACNNN!GTG	2	1520; 2051
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	266; 4415
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNNN!NNGTC	3	2006; 2962; 4751
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2006; 2962; 4751
EaeI	Y!GGCCR	8	676; 725; 1528; 1579; 2841; 3015; 3406; 3433
EagI	C!GGCCG	2	1579; 2841
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	874; 2402; 3279; 3489
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	4	874; 2402; 3279; 3489
EciI	GGCGGANNNNNNNNNN!	4	2435; 3464; 4651; 4797
EciI	!NNNNNNNNNTCCGCC	4	496; 2606; 2627; 2648
Ecl136II	GAG!CTC	1	824
EclXI	C!GGCCG	2	1579; 2841
Eco24I	GRGCY!C	4	826; 2126; 3300; 4010
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1491; 3924
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	829; 1460; 3451; 3896
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	2	1579; 2841
Eco57I	CTGAAGNNNNNNNNNNNNNN!	3	1380; 3081; 3513
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4311
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	1129; 2415; 4047
Eco88I	C!YCGRG	0	
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	8	360; 695; 841; 862; 2664; 2757; 3367; 3772
Eco147I	AGG!CCT	1	2756
EcoHI	!CCSGG	6	816; 1442; 2937; 3097; 3710; 4474
EcoICRI	GAG!CTC	1	824
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	4	1380; 3081; 3513; 3775
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	1188; 3718; 4311
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	4033
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	18	88; 281; 638; 718; 1045; 1093; 1189; 1204; 1333; 2469; 2524; 2541; 3320; 3899; 4002; 4692; 4705; 4826
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	8	360; 695; 841; 862; 2664; 2757; 3367; 3772
EcoT22I	ATGCA!T	3	2507; 2579; 4910
EcoT38I	GRGCY!C	4	826; 2126; 3300; 4010
Eco53kI	GAG!CTC	1	824
EgeI	GGC!GCC	1	2936
EheI	GGC!GCC	1	2936
ErhI	C!CWWGG	8	360; 695; 841; 862; 2664; 2757; 3367; 3772
EsaBC3I	TC!GA	15	787; 1013; 1040; 1508; 2085; 2776; 3049; 3205; 3229; 3265; 3427; 3618; 3663; 3918; 4756
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	24	304; 364; 599; 866; 902; 908; 920; 998; 1064; 1144; 1355; 2365; 2505; 2577; 2668; 2809; 3154; 3340; 3371; 3397; 3753; 4137; 4857; 4908
FaiI	YA!TR	63	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 597; 864; 900; 906; 918; 996; 1062; 1142; 1160; 1353; 1406; 1456; 1597; 1607; 1673; 1718; 1923; 2351; 2363; 2494; 2503; 2566; 2575; 2599; 2666; 2690; 2807; 2871; 3152; 3177; 3338; 3369; 3395; 3467; 3683; 3751; 3829; 3881; 4042; 4059; 4061; 4063; 4135; 4413; 4602; 4718; 4791; 4855; 4906
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	1139; 3275
FalI	!NNNNNNNNAAGNNNNNCTT	2	1107; 3243
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3086; 3618; 3727
FaqI	!NNNNNNNNNNNNNGTCCC	5	632; 2451; 2523; 2587; 3882

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FatI	!CATG	24	300; 360; 595; 862; 898; 904; 916; 994; 1060; 1140; 1351; 2361; 2501; 2573; 2664; 2805; 3150; 3336; 3367; 3393; 3749; 4133; 4853; 4904
FauI	CCCGCNNNN!	10	93; 119; 286; 1328; 1430; 2257; 2612; 2633; 3829; 3961
FauI	!NNNNNNGCGGG	7	649; 1365; 2188; 3058; 3595; 3733; 3880
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FbII	GT!MKAC	1	1450
FmuI	GGNC!C	16	86; 279; 661; 832; 841; 1023; 1266; 1358; 1379; 1463; 2045; 3454; 3899; 3945; 4003; 4036
Fnu4HI	GC!NGC	45	612; 623; 626; 631; 665; 728; 740; 774; 782; 796; 799; 1019; 1070; 1214; 1331; 1512; 1582; 1712; 2231; 2253; 2267; 2705; 2844; 2896; 2907; 2997; 3002; 3039; 3080; 3167; 3170; 3173; 3409; 3505; 3546; 3560; 3674; 4013; 4028; 4239; 4445; 4448; 4513; 4656; 4811
FokI	GGATGNNNNNNNN!	4	2802; 3259; 3284; 3738
FokI	!NNNNNNNNNNNNNNCATCC	5	941; 1029; 1086; 1241; 2608
FriOI	GRGCY!C	4	826; 2126; 3300; 4010
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3037
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1549; 1590; 1784; 2202; 2758; 3773; 4107; 4360
FspEI	CCNNNNNNNNNNNN!	168	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 625; 644; 662; 678; 692; 708; 732; 747; 761; 779; 809; 827; 845; 862; 941; 971; 988; 1002; 1035; 1049; 1067; 1091; 1106; 1136; 1169; 1196; 1211; 1230; 1266; 1313; 1332; 1347; 1370; 1392; 1415; 1435; 1456; 1476; 1502; 1544; 1560; 1595; 1618; 1657; 1671; 1812; 1907; 1931; 1954; 1977; 1995; 2017; 2038; 2057; 2076; 2105; 2126; 2140; 2166; 2254; 2280; 2329; 2370; 2388; 2427; 2443; 2481; 2538; 2553; 2610; 2630; 2644; 2661; 2675; 2712; 2727; 2770; 2853; 2920; 2951; 2971; 2986; 3031; 3045; 3111; 3125; 3144; 3160; 3201; 3221; 3268; 3318; 3334; 3354; 3379; 3399; 3422; 3449; 3467; 3493; 3533; 3559; 3583; 3639; 3653; 3681; 3724; 3745; 3780; 3824; 3912; 3936; 3958; 3978; 3994; 4015; 4029; 4048; 4132; 4152; 4180; 4195; 4229; 4271; 4298; 4313; 4358; 4382; 4396; 4418; 4444; 4464; 4488; 4514; 4562; 4581; 4600; 4626; 4661; 4706; 4736; 4750; 4801; 4815; 4840; 4856; 4877; 4906
FspEI	!NNNNNNNNNNNNNNNGG	138	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 584; 607; 625; 660; 682; 705; 738; 762; 790; 812; 837; 858; 876; 903; 945; 966; 990; 1032; 1051; 1080; 1116; 1153; 1176; 1195; 1225; 1246; 1273; 1312; 1338; 1357; 1429; 1455; 1503; 1542; 1563; 1606; 1706; 1775; 1805; 1883; 1932; 1954; 1982; 2018; 2063; 2092; 2128; 2147; 2175; 2195; 2258; 2281; 2389; 2421; 2439; 2468; 2511; 2540; 2651; 2680; 2723; 2744; 2772; 2805; 2825; 2850; 2877; 2902; 2924; 2952; 2978; 2999; 3050; 3071; 3089; 3137; 3173; 3229; 3254; 3278; 3307; 3330; 3354; 3380; 3402; 3421; 3446; 3486; 3522; 3587; 3672; 3696; 3725; 3759; 3780; 3800; 3845; 3872; 3891; 3924; 3976; 4007; 4034; 4086; 4184; 4255; 4300; 4361; 4426; 4460; 4486; 4504; 4540; 4610; 4633; 4655; 4679; 4712; 4760; 4795; 4813; 4870
Fsp4HI	GC!NGC	45	612; 623; 626; 631; 665; 728; 740; 774; 782; 796; 799; 1019; 1070; 1214; 1331; 1512; 1582; 1712; 2231; 2253; 2267; 2705; 2844; 2896; 2907; 2997; 3002; 3039; 3080; 3167; 3170; 3173; 3409; 3505; 3546; 3560; 3674; 4013; 4028; 4239; 4445; 4448; 4513; 4656; 4811
GdiII	C!GGCCR	2	1579; 2841
GdiII	Y!GGCCG	6	676; 725; 1579; 2841; 3406; 3433
GlaI	GC!GC	23	629; 644; 686; 2200; 2208; 2234; 2256; 2265; 2278; 2309; 2928; 2936; 3000; 3037; 3303; 3563; 3739; 3825; 4228; 4337; 4511; 4611; 4678
GluI	GC!NGC	45	612; 623; 626; 631; 665; 728; 740; 774; 782; 796; 799; 1019; 1070; 1214; 1331; 1512; 1582; 1712; 2231; 2253; 2267; 2705; 2844; 2896; 2907; 2997; 3002; 3039; 3080; 3167; 3170; 3173; 3409; 3505; 3546; 3560; 3674; 4013; 4028; 4239; 4445; 4448; 4513; 4656; 4811
GsaI	CCCAG!C	3	2482; 2554; 4553
GsaI	GCTGG!G	2	1295; 3443

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3775
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	1188; 3718
HaeI	WGG!CCW	7	1299; 1530; 2756; 3017; 4379; 4831; 4842
HaeII	RGCG!Y	5	631; 2202; 2210; 2938; 4613
HaeIII	GG!CC	32	84; 277; 660; 678; 727; 840; 1021; 1264; 1299; 1333; 1356; 1378; 1488; 1530; 1581; 1901; 2043; 2698; 2704; 2713; 2756; 2843; 3017; 3408; 3435; 3944; 4001; 4034; 4379; 4813; 4831; 4842
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	1610; 3131
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1576; 3097
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	1609; 3130
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1578; 3099
HapII	C!CGG	21	817; 827; 832; 852; 1444; 2153; 2840; 2917; 2939; 2967; 3098; 3188; 3255; 3436; 3711; 3719; 3811; 4285; 4475; 4501; 4648
HgaI	GACGCNNNNN!	3	526; 3645; 3724
HgaI	!NNNNNNNNNNNGCGTC	6	634; 689; 1436; 2268; 4163; 4741
HhaI	GCG!C	23	630; 645; 687; 2201; 2209; 2235; 2257; 2266; 2279; 2310; 2929; 2937; 3001; 3038; 3304; 3564; 3740; 3826; 4229; 4338; 4512; 4612; 4679
HinI	GR!CGYC	9	122; 175; 258; 444; 700; 1447; 2935; 3637; 3716
Hin1II	CATG!	24	304; 364; 599; 866; 902; 908; 920; 998; 1064; 1144; 1355; 2365; 2505; 2577; 2668; 2809; 3154; 3340; 3371; 3397; 3753; 4137; 4857; 4908
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1609; 3130
Hin4I	!NNNNNNNNNGABNNNNNNRTC	3	1577; 3098; 3128
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	1609; 3130; 3160
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	1577; 3098
Hin6I	G!CGC	23	628; 643; 685; 2199; 2207; 2233; 2255; 2264; 2277; 2308; 2927; 2935; 2999; 3036; 3302; 3562; 3738; 3824; 4227; 4336; 4510; 4610; 4677
HinP1I	G!CGC	23	628; 643; 685; 2199; 2207; 2233; 2255; 2264; 2277; 2308; 2927; 2935; 2999; 3036; 3302; 3562; 3738; 3824; 4227; 4336; 4510; 4610; 4677
HincII	GTY!RAC	1	1698
HindII	GTY!RAC	1	1698
HindIII	A!AGCTT	0	
Hinfi	G!ANTC	16	410; 760; 1000; 1150; 1477; 1586; 1978; 2000; 2410; 3420; 3554; 3606; 3664; 3701; 4483; 4879
HpaI	GTT!AAC	1	1698
HpaII	C!CGG	21	817; 827; 832; 852; 1444; 2153; 2840; 2917; 2939; 2967; 3098; 3188; 3255; 3436; 3711; 3719; 3811; 4285; 4475; 4501; 4648
HphI	GGTGANNNNNNNN!	4	376; 1256; 4006; 4122
HphI	!NNNNNNNTCACC	4	695; 1145; 2052; 3113
Hpy8I	GTN!NAC	14	201; 539; 577; 713; 932; 952; 1247; 1451; 1460; 1698; 1982; 1999; 2054; 4541
Hpy99I	CGWCG!	8	1509; 3025; 3053; 3347; 3362; 3639; 4024; 4757
Hpy166II	GTN!NAC	14	201; 539; 577; 713; 932; 952; 1247; 1451; 1460; 1698; 1982; 1999; 2054; 4541
Hpy188I	TCN!GA	14	585; 759; 959; 1239; 2109; 2718; 2902; 3246; 3599; 3700; 4179; 4313; 4666; 4744
Hpy188III	TC!NNGA	26	606; 617; 827; 1232; 1397; 1436; 1590; 2362; 2414; 2727; 2780; 2953; 3269; 3278; 3361; 3417; 3461; 3551; 3584; 3653; 4134; 4208; 4291; 4389; 4487; 4621
HpyAV	CCTCNNNNNN!	6	1040; 1088; 1133; 3580; 3687; 4366
HpyAV	!NNNNNGAAGG	9	960; 1332; 2168; 3063; 3792; 3808; 3991; 4308; 4618
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 792; 929; 2026; 3315; 3431; 3539; 3862; 4353; 4823; 4894
HpyCH4IV	A!CGT	16	122; 134; 175; 258; 339; 444; 1228; 1504; 1995; 2007; 2050; 2160; 3051; 3238; 4019; 4152
HpyCH4V	TG!CA	22	692; 776; 902; 952; 1274; 1390; 1684; 1711; 1779; 2496; 2505; 2568; 2577; 2692; 2768; 2827; 2986; 3161; 3175; 4245; 4541; 4908
HpyF3I	C!TNAG	11	618; 735; 871; 1129; 1426; 2415; 2717; 3598; 4047; 4170; 4579
HpyF10VI	GCNNNNN!NNGC	30	90; 212; 244; 283; 376; 400; 608; 684; 736; 908; 1339; 2162; 2192; 2219; 2261; 2502; 2574; 2625; 2704; 2926; 3010; 3033; 3172; 3295; 3378; 3645; 3832; 4036; 4235; 4807
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 700; 1447; 2935; 3637; 3716

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MnII	CCTC>NNNNNNN!	14	717; 824; 1033; 1212; 1227; 1443; 1554; 1654; 2718; 3536; 3742; 4056; 4426; 4750
MnII	!NNNNNNGAGG	24	541; 592; 828; 914; 953; 974; 1007; 1124; 1233; 1289; 1478; 1511; 1614; 2079; 2410; 2688; 2731; 2746; 2786; 2850; 2986; 3343; 3773; 4676
Mph1103I	ATGCA!T	3	2507; 2579; 4910
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	826
MroNI	G!CCGGC	3	2152; 3435; 3718
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	2	1530; 3017
MseI	T!TAA	18	7; 889; 1114; 1570; 1636; 1697; 1818; 1839; 1850; 1862; 1873; 1890; 1988; 2259; 4078; 4092; 4097; 4149
MslI	CAYNN!NNRTG	5	365; 864; 903; 1308; 3372
MspI	C!CGG	21	817; 827; 832; 852; 1444; 2153; 2840; 2917; 2939; 2967; 3098; 3188; 3255; 3436; 3711; 3719; 3811; 4285; 4475; 4501; 4648
Msp20I	TGG!CCA	2	1530; 3017
MspA1I	CMG!CKG	7	656; 773; 1323; 2433; 3041; 4270; 4515
MspCI	C!TTAAG	1	1817
MspJI	CNNRRNNNNNNNN!	249	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; 618; 644; 662; 680; 708; 731; 746; 760; 779; 797; 818; 839; 853; 875; 890; 911; 929; 959; 977; 992; 1007; 1025; 1058; 1073; 1101; 1116; 1140; 1153; 1169; 1187; 1201; 1217; 1230; 1244; 1265; 1278; 1299; 1312; 1332; 1346; 1364; 1377; 1394; 1409; 1426; 1446; 1476; 1493; 1513; 1527; 1543; 1560; 1575; 1595; 1608; 1623; 1642; 1659; 1672; 1713; 1727; 1740; 1758; 1796; 1811; 1829; 1870; 1894; 1914; 1932; 1953; 1976; 2008; 2023; 2045; 2063; 2076; 2097; 2114; 2127; 2140; 2156; 2169; 2199; 2214; 2239; 2257; 2270; 2285; 2309; 2323; 2347; 2372; 2388; 2426; 2442; 2481; 2495; 2509; 2537; 2553; 2567; 2581; 2610; 2623; 2644; 2653; 2675; 2705; 2721; 2739; 2769; 2792; 2816; 2840; 2859; 2887; 2913; 2929; 2942; 2965; 2979; 2999; 3012; 3026; 3045; 3059; 3072; 3088; 3103; 3116; 3132; 3147; 3163; 3188; 3207; 3223; 3236; 3249; 3267; 3281; 3295; 3311; 3333; 3349; 3368; 3390; 3406; 3429; 3448; 3462; 3478; 3492; 3512; 3528; 3541; 3563; 3596; 3610; 3630; 3643; 3657; 3711; 3724; 3747; 3760; 3779; 3796; 3823; 3859; 3892; 3911; 3936; 3957; 3984; 3997; 4014; 4028; 4043; 4059; 4119; 4144; 4160; 4182; 4195; 4209; 4240; 4254; 4279; 4297; 4312; 4325; 4344; 4357; 4372; 4401; 4420; 4438; 4463; 4478; 4497; 4513; 4532; 4550; 4566; 4580; 4599; 4626; 4649; 4671; 4690; 4705; 4718; 4735; 4755; 4782; 4795; 4814; 4839; 4862; 4876; 4889; 4906
MspJI	!NNNNNNNNNNNNNYNG	206	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 591; 618; 643; 660; 682; 705; 722; 739; 763; 791; 812; 838; 858; 876; 903; 933; 957; 975; 999; 1018; 1040; 1080; 1101; 1127; 1147; 1176; 1218; 1252; 1273; 1293; 1320; 1338; 1355; 1373; 1401; 1422; 1441; 1467; 1489; 1512; 1535; 1561; 1587; 1616; 1645; 1687; 1770; 1805; 1832; 1855; 1884; 1928; 1950; 1982; 2018; 2035; 2056; 2093; 2113; 2130; 2147; 2182; 2200; 2218; 2235; 2259; 2281; 2308; 2336; 2362; 2400; 2421; 2438; 2456; 2479; 2500; 2528; 2551; 2572; 2590; 2611; 2628; 2651; 2675; 2695; 2713; 2735; 2766; 2788; 2814; 2833; 2850; 2878; 2897; 2916; 2934; 2952; 2973; 2995; 3019; 3052; 3072; 3090; 3111; 3137; 3164; 3181; 3198; 3215; 3241; 3263; 3285; 3303; 3323; 3342; 3364; 3402; 3422; 3446; 3466; 3486; 3513; 3537; 3570; 3589; 3617; 3639; 3668; 3696; 3721; 3740; 3759; 3780; 3797; 3814; 3845; 3872; 3892; 3915; 3935; 3972; 3989; 4008; 4034; 4054; 4093; 4120; 4139; 4157; 4194; 4212; 4253; 4271; 4297; 4314; 4346; 4375; 4403; 4424; 4447; 4466; 4487; 4505; 4522; 4540; 4566; 4587; 4607; 4627; 4645; 4666; 4692; 4709; 4728; 4747; 4776; 4795; 4813; 4832; 4850; 4868; 4891
MspR9I	CC!NGG	24	90; 283; 640; 720; 818; 1047; 1095; 1191; 1206; 1335; 1444; 2471; 2526; 2543; 2939; 3099; 3322; 3712; 3901; 4004; 4476; 4694; 4707; 4828
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1685
MvaI	CC!WGG	18	90; 283; 640; 720; 1047; 1095; 1191; 1206; 1335; 2471; 2526; 2543; 3322; 3901; 4004; 4694; 4707; 4828

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Mva1269I	GAATGCN!	1	1686
Mva1269I	G!CATTC	1	1779
MvnI	CG!CG	18	60; 633; 645; 730; 1584; 1859; 2235; 2255; 2279; 2310; 3001; 3302; 3740; 3824; 3887; 3956; 4229; 4810
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	30	90; 212; 244; 283; 376; 400; 608; 684; 736; 908; 1339; 2162; 2192; 2219; 2261; 2502; 2574; 2625; 2704; 2926; 3010; 3033; 3172; 3295; 3378; 3645; 3832; 4036; 4235; 4807
NaeI	GCC!GGC	3	2154; 3437; 3720
NarI	GG!CGCC	1	2935
NciI	CC!SGG	6	818; 1444; 2939; 3099; 3712; 4476
NcoI	C!CATGG	4	360; 862; 2664; 3367
NdeI	CA!TATG	1	234
NdeII	!GATC	22	585; 845; 1234; 1384; 1410; 1592; 2772; 2776; 2795; 3106; 3184; 3265; 3274; 3352; 3728; 3744; 4103; 4115; 4193; 4201; 4212; 4287
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	991
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	1027
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	2152; 3435; 3718
NheI	G!CTAGC	1	591
NlaIII	CATG!	24	304; 364; 599; 866; 902; 908; 920; 998; 1064; 1144; 1355; 2365; 2505; 2577; 2668; 2809; 3154; 3340; 3371; 3397; 3753; 4137; 4857; 4908
NlaIV	GGN!NCC	20	467; 610; 839; 847; 926; 986; 1377; 2090; 2111; 2123; 2314; 2475; 2547; 2936; 2971; 3819; 3898; 3943; 4786; 4825
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1767; 2082; 3674
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 1251; 4746
Nli3877I	CYCGR!G	0	
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2724; 3160
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1267; 2689
NmeDI	RCCGGYNNNNNNN!	5	863; 2164; 3266; 3447; 3730
NmeDI	!NNNNNNNNNNNNRCCGGY	5	838; 2139; 3241; 3422; 3705
NmuCI	!GTSAC	5	701; 1151; 2224; 3055; 3361
NotI	GC!GGCCGC	1	1579
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3037
NsiI	ATGCA!T	3	2507; 2579; 4910
NspI	RCATG!Y	5	902; 2505; 2577; 3340; 4857
NspV	TT!CGAA	1	3617
OliI	CACNN!NNGTG	1	864
PabI	GTA!C	10	220; 245; 300; 333; 384; 541; 916; 1066; 1318; 3242
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2505; 2577; 3340
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	2	2361; 4133
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1094; 3900; 4003
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2756
PciI	A!CATGT	1	4853
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	874; 3279; 3489
PcsI	WCGNNNN!NNNCGW	7	1513; 3229; 3306; 3549; 3623; 4016; 4534
PctI	GAATGCN!	1	1686
PctI	G!CATTC	1	1779
PdiI	GCC!GGC	3	2154; 3437; 3720
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	1000; 1477; 3420; 3554; 3664; 3701; 4879
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3053
PfIMI	CCANNNN!NTGG	1	1469
PfoI	T!CCNGGA	2	1204; 3710

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PhoI	GG!CC	32	84; 277; 660; 678; 727; 840; 1021; 1264; 1299; 1333; 1356; 1378; 1488; 1530; 1581; 1901; 2043; 2698; 2704; 2713; 2756; 2843; 3017; 3408; 3435; 3944; 4001; 4034; 4379; 4813; 4831; 4842
PinAI	A!CCGGT	1	851
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	3316
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	2881; 3136
PleI	GAGTCNNNN!	4	768; 1158; 1986; 2418
PleI	!NNNNNGACTC	5	404; 1580; 1994; 3600; 4477
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNNCTCNNNNNNNNNNNN!	1	2017
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	4147
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4179
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1985
PpsI	GAGTCNNNN!	4	768; 1158; 1986; 2418
PpsI	!NNNNNGACTC	5	404; 1580; 1994; 3600; 4477
Ppu10I	A!TGCAT	3	2503; 2575; 4906
Ppu21I	YAC!GTR	3	340; 2051; 3239
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4853
PshAI	GACNN!NNGTC	1	1503
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1718; 1923
Psp03I	GGWC!C	4	832; 1463; 3454; 3899
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	18	88; 281; 638; 718; 1045; 1093; 1189; 1204; 1333; 2469; 2524; 2541; 3320; 3899; 4002; 4692; 4705; 4826
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	826
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	18	88; 281; 638; 718; 1045; 1093; 1189; 1204; 1333; 2469; 2524; 2541; 3320; 3899; 4002; 4692; 4705; 4826
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	20	467; 610; 839; 847; 926; 986; 1377; 2090; 2111; 2123; 2314; 2475; 2547; 2936; 2971; 3819; 3898; 3943; 4786; 4825
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 2665; 3664
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3067
PspPI	G!GNCC	16	83; 276; 658; 829; 838; 1020; 1263; 1355; 1376; 1460; 2042; 3451; 3896; 3942; 4000; 4033
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	2488; 2560; 4066
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	4	1115; 1543; 2401; 3596
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	4036
PstI	CTGCA!G	1	778
PstNI	CAGNNN!CTG	3	1537; 4036; 4444
PsuI	R!GATCY	10	585; 845; 1410; 3106; 3352; 3744; 4103; 4115; 4201; 4212
PsyI	GACN!NNGTC	1	3053
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2433; 3041
RcaI	T!CATGA	2	2361; 4133
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3450
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	1664

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	10	219; 244; 299; 332; 383; 540; 915; 1065; 1317; 3241
RsaNI	G!TAC	10	218; 243; 298; 331; 382; 539; 914; 1064; 1316; 3240
RseI	CAYNN!NNRTG	5	365; 864; 903; 1308; 3372
RsrII	CG!GWCCG	2	829; 3451
Rsr2I	CG!GWCCG	2	829; 3451
SacI	GAGCT!C	1	826
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	3	874; 3279; 3489
SaqAI	T!TAA	18	7; 889; 1114; 1570; 1636; 1697; 1818; 1839; 1850; 1862; 1873; 1890; 1988; 2259; 4078; 4092; 4097; 4149
SatI	GC!NGC	45	612; 623; 626; 631; 665; 728; 740; 774; 782; 796; 799; 1019; 1070; 1214; 1331; 1512; 1582; 1712; 2231; 2253; 2267; 2705; 2844; 2896; 2907; 2997; 3002; 3039; 3080; 3167; 3170; 3173; 3409; 3505; 3546; 3560; 3674; 4013; 4028; 4239; 4445; 4448; 4513; 4656; 4811
Sau96I	G!GNCC	16	83; 276; 658; 829; 838; 1020; 1263; 1355; 1376; 1460; 2042; 3451; 3896; 3942; 4000; 4033
Sau3AI	!GATC	22	585; 845; 1234; 1384; 1410; 1592; 2772; 2776; 2795; 3106; 3184; 3265; 3274; 3352; 3728; 3744; 4103; 4115; 4193; 4201; 4212; 4287
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	769; 1159; 1987; 2419
SchI	!NNNNNGACTC	5	404; 1580; 1994; 3600; 4477
SciI	CTC!GAG	0	
ScrFI	CC!NGG	24	90; 283; 640; 720; 818; 1047; 1095; 1191; 1206; 1335; 1444; 2471; 2526; 2543; 2939; 3099; 3322; 3712; 3901; 4004; 4476; 4694; 4707; 4828
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	6	1301; 1369; 2513; 2585; 2754; 4696
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	595; 3090; 3575
SdeOSI	GACNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	13	826; 927; 954; 987; 1564; 2126; 2881; 2974; 3048; 3238; 3300; 4010; 4543
SelI	!CGCG	18	58; 631; 643; 728; 1582; 1857; 2233; 2253; 2277; 2308; 2999; 3300; 3738; 3822; 3885; 3954; 4227; 4808
SetI	ASST!	66	125; 137; 178; 261; 308; 342; 447; 552; 568; 697; 721; 736; 826; 886; 913; 1009; 1059; 1080; 1231; 1366; 1384; 1435; 1503; 1507; 1522; 1546; 1625; 1646; 1655; 1667; 1716; 1883; 1998; 2010; 2053; 2090; 2140; 2163; 2287; 2435; 2530; 2723; 2836; 2964; 3043; 3054; 3126; 3197; 3241; 3501; 3647; 3691; 4022; 4053; 4112; 4155; 4298; 4319; 4418; 4555; 4570; 4589; 4601; 4645; 4691; 4742
SexAI	A!CCWGGT	1	2524
SfaAI	CGGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	1108; 1751; 2514; 2586; 3234; 3298; 3573
SfaNI	!NNNNNNNNNGATGC	9	357; 625; 1261; 1300; 1429; 2893; 3148; 3364; 4756
SfiI	C!TRYAG	5	651; 774; 2270; 4397; 4588
SfiI	GGCCNNNN!NGGCC	1	2710
SfoI	GGC!GCC	1	2936
Sfr274I	C!TCGAG	0	
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	1	3617

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	195	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 618; 644; 669; 684; 708; 731; 746; 765; 789; 818; 839; 854; 875; 911; 929; 959; 983; 1001; 1016; 1058; 1073; 1106; 1140; 1153; 1181; 1202; 1217; 1244; 1278; 1299; 1319; 1332; 1346; 1364; 1377; 1394; 1409; 1427; 1448; 1482; 1520; 1543; 1561; 1595; 1642; 1671; 1713; 1796; 1870; 1954; 1976; 2008; 2045; 2063; 2082; 2097; 2139; 2156; 2173; 2208; 2222; 2239; 2261; 2285; 2309; 2374; 2388; 2426; 2442; 2482; 2495; 2514; 2537; 2554; 2567; 2586; 2616; 2637; 2654; 2677; 2712; 2739; 2770; 2792; 2818; 2840; 2859; 2887; 2923; 2942; 2965; 2979; 2999; 3012; 3026; 3045; 3059; 3078; 3110; 3124; 3137; 3163; 3194; 3207; 3224; 3241; 3255; 3272; 3290; 3305; 3333; 3349; 3368; 3390; 3406; 3429; 3448; 3473; 3492; 3512; 3539; 3563; 3596; 3615; 3643; 3657; 3723; 3747; 3762; 3785; 3806; 3823; 3871; 3898; 3912; 3941; 3965; 3998; 4015; 4035; 4048; 4061; 4119; 4146; 4165; 4195; 4220; 4240; 4254; 4279; 4297; 4334; 4372; 4401; 4429; 4443; 4463; 4478; 4499; 4513; 4532; 4550; 4566; 4606; 4626; 4653; 4671; 4692; 4705; 4718; 4735; 4759; 4782; 4814; 4839; 4866; 4888
SgeI	!NNNNNNNNNNNNCNG	170	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 603; 625; 643; 660; 682; 705; 729; 763; 792; 813; 838; 885; 903; 933; 957; 975; 999; 1032; 1080; 1114; 1155; 1176; 1218; 1252; 1273; 1293; 1320; 1338; 1359; 1383; 1401; 1422; 1456; 1494; 1517; 1535; 1569; 1616; 1645; 1687; 1770; 1844; 1928; 1950; 1982; 2019; 2037; 2056; 2113; 2130; 2147; 2182; 2200; 2220; 2240; 2259; 2283; 2348; 2400; 2456; 2488; 2511; 2528; 2560; 2590; 2611; 2628; 2651; 2686; 2713; 2744; 2766; 2792; 2814; 2833; 2861; 2897; 2916; 2939; 2960; 2978; 2995; 3019; 3052; 3084; 3111; 3137; 3168; 3198; 3215; 3241; 3264; 3285; 3307; 3327; 3347; 3364; 3403; 3422; 3447; 3466; 3486; 3513; 3537; 3570; 3589; 3617; 3639; 3697; 3721; 3740; 3759; 3780; 3797; 3845; 3872; 3892; 3915; 3939; 3972; 3989; 4009; 4035; 4093; 4120; 4139; 4169; 4194; 4214; 4253; 4271; 4308; 4346; 4375; 4403; 4424; 4452; 4473; 4506; 4524; 4580; 4600; 4627; 4645; 4666; 4692; 4709; 4733; 4756; 4788; 4813; 4840; 4862; 4891
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2082; 3869; 4662
SimI	!GACCC	4	106; 3363; 3931; 4179
SinI	G!GWCC	4	829; 1460; 3451; 3896
SlaI	C!TCGAG	0	
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 864; 903; 1308; 3372
SmlI	C!TYRAG	6	1434; 1817; 3326; 4208; 4485; 4747
SmoI	C!TYRAG	6	1434; 1817; 3326; 4208; 4485; 4747
SmuI	CCCGNNNN!	10	93; 119; 286; 1328; 1430; 2257; 2612; 2633; 3829; 3961
SmuI	!NNNNNNGCGGG	7	649; 1365; 2188; 3058; 3595; 3733; 3880
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2505; 2577; 3340
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 1571; 1685; 1749; 1827; 1853; 1864; 2511; 2583; 2675; 4093
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2756
SsiI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 612; 631; 665; 728; 740; 771; 796; 799; 1183; 1321; 1423; 1582; 2250; 2253; 2267; 2357; 2605; 2617; 2626; 2638; 2648; 2659; 2705; 2844; 2907; 3409; 3454; 3520; 3546; 3671; 3674; 3822; 3954; 4261; 4405; 4901
SsiI	G!CGG	30	370; 403; 528; 622; 656; 781; 1018; 1330; 1372; 1578; 2195; 2222; 2310; 2420; 3001; 3065; 3166; 3169; 3449; 3504; 3602; 3740; 3887; 4027; 4270; 4515; 4636; 4655; 4782; 4810
SspI	AAT!ATT	2	1843; 2396
SspDI	G!GCGCC	1	2934

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SspD5I	GGTGANNNNNNNN!	4	376; 1256; 4006; 4122
SspD5I	!NNNNNNNNNTCACC	4	694; 1144; 2051; 3112
SstI	GAGCT!C	1	826
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	1189
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	19	92; 118; 285; 1111; 1327; 1429; 1450; 2134; 2256; 2611; 2632; 2945; 3348; 3487; 3558; 3828; 3960; 4190; 4628
Sth132I	!NNNNNNNNCCGGG	24	15; 407; 470; 597; 648; 797; 809; 1160; 1364; 2135; 2187; 2288; 3015; 3057; 3090; 3594; 3703; 3732; 3879; 3983; 4014; 4467; 4511; 4719
Sth302II	CC!GG	21	818; 828; 833; 853; 1445; 2154; 2841; 2918; 2940; 2968; 3099; 3189; 3256; 3437; 3712; 3720; 3812; 4286; 4476; 4502; 4649
StrI	C!TCGAG	0	
StsI	GGATGNNNNNNNNNN!	4	2803; 3260; 3285; 3739
StsI	!NNNNNNNNNNNNNNNNCATCC	5	940; 1028; 1085; 1240; 2607
StuI	AGG!CCT	1	2756
StyI	C!CWWGG	8	360; 695; 841; 862; 2664; 2757; 3367; 3772
StyD4I	!CCNGG	24	88; 281; 638; 718; 816; 1045; 1093; 1189; 1204; 1333; 1442; 2469; 2524; 2541; 2937; 3097; 3320; 3710; 3899; 4002; 4474; 4692; 4705; 4826
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 792; 929; 2026; 3315; 3431; 3539; 3862; 4353; 4823; 4894
TaiI	ACGT!	16	125; 137; 178; 261; 342; 447; 1231; 1507; 1998; 2010; 2053; 2163; 3054; 3241; 4022; 4155
TaqI	T!CGA	15	786; 1012; 1039; 1507; 2084; 2775; 3048; 3204; 3228; 3264; 3426; 3617; 3662; 3917; 4755
TaqII	GACCGANNNNNNNNNN!	3	1955; 2972; 3640
TaqII	!NNNNNNNNNTCGGTC	1	3884
TaqII	CACCCANNNNNNNNNN!	2	1002; 1107
TaqII	!NNNNNNNNNTGGGTG	3	172; 2839; 3431
TasI	!AATT	11	18; 1571; 1685; 1749; 1827; 1853; 1864; 2511; 2583; 2675; 4093
TatI	W!GTACW	5	217; 297; 330; 381; 913
TauI	GCSG!C	27	614; 625; 633; 667; 730; 742; 784; 798; 801; 1021; 1333; 1584; 2255; 2269; 2707; 2846; 2909; 3004; 3169; 3172; 3411; 3507; 3548; 3676; 4030; 4658; 4813
TfiI	G!AWTC	7	1000; 1477; 3420; 3554; 3664; 3701; 4879
TliI	C!TCGAG	0	
TruII	T!TAA	18	7; 889; 1114; 1570; 1636; 1697; 1818; 1839; 1850; 1862; 1873; 1890; 1988; 2259; 4078; 4092; 4097; 4149
Tru9I	T!TAA	18	7; 889; 1114; 1570; 1636; 1697; 1818; 1839; 1850; 1862; 1873; 1890; 1988; 2259; 4078; 4092; 4097; 4149
TscAI	CASTGNN!	6	797; 1781; 3064; 4174; 4445; 4458
TseI	G!CWGC	18	625; 773; 1069; 1213; 1511; 1711; 2230; 2895; 2996; 3038; 3079; 3172; 3559; 4012; 4238; 4444; 4447; 4512
TsoI	TARCCANNNNNNNNNN!	2	1907; 2254
TsoI	!NNNNNNNNNTGGYTA	3	1038; 1712; 3464
Tsp45I	!GTSAC	5	701; 1151; 2224; 3055; 3361
Tsp509I	!AATT	11	18; 1571; 1685; 1749; 1827; 1853; 1864; 2511; 2583; 2675; 4093
TspDTI	ATGAANNNNNNNNNN!	4	921; 1693; 2994; 3698
TspDTI	!NNNNNNNNNTTCAT	6	26; 1049; 1070; 3412; 3868; 4075
TspEI	!AATT	11	18; 1571; 1685; 1749; 1827; 1853; 1864; 2511; 2583; 2675; 4093
TspGWI	ACGGANNNNNNNNNN!	1	3810
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	6	797; 1781; 3064; 4174; 4445; 4458
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3053
Tth111II	CAARCANNNNNNNNNN!	1	4262
Tth111II	!NNNNNNNNNTGYTTG	3	3370; 4230; 4269

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
UnbI	!GGNCC	16	82; 275; 657; 828; 837; 1019; 1262; 1354; 1375; 1459; 2041; 3450; 3895; 3941; 3999; 4032
Van9II	CCANNNN!NTGG	1	1469
Vha464I	C!TTAAG	1	1817
VneI	G!TGCAC	2	950; 4539
VpaK11AI	!GGWCC	4	828; 1459; 3450; 3895
VpaK11BI	G!GWCC	4	829; 1460; 3451; 3896
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	3	1749; 1853; 1864
XbaI	T!CTAGA	1	1589
XceI	RCATG!Y	5	902; 2505; 2577; 3340; 4857
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	0	
XhoII	R!GATCY	10	585; 845; 1410; 3106; 3352; 3744; 4103; 4115; 4201; 4212
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	2757; 3772
XmiI	GT!MKAC	1	1450
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	9	592; 1549; 1590; 1784; 2202; 2758; 3773; 4107; 4360
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2507; 2579; 4910