

pKatushka2S-C vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1526; 1731
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1814; 2770; 4559
AatI	AGG!CCT	1	2564
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1358
AccII	CG!CG	16	60; 1369; 1631; 1667; 2043; 2063; 2087; 2118; 2809; 3110; 3548; 3632; 3695; 3764; 4037; 4618
AccIII	T!CCGGA	1	1318
Acc16I	TGC!GCA	1	2845
Acc36I	ACCTGCNNNN!	4	1139; 1301; 3011; 3461
Acc36I	!NNNNNNNNNGCAGGT	1	2630
Acc65I	G!GTACC	1	1363
AccB1I	G!GYRCC	7	465; 673; 733; 1363; 1896; 2742; 2777
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	2167; 3356
AccBSI	GAG!CGG	2	2003; 3410
AceIII	CAGCTCNNNNNNN!	2	1326; 1699
AceIII	!NNNNNNNNNNNGAGCTG	1	552
AciI	C!CGC	35	58; 86; 98; 112; 279; 507; 589; 932; 1070; 1172; 1367; 2058; 2061; 2075; 2165; 2413; 2425; 2434; 2446; 2456; 2467; 2513; 2652; 2715; 3217; 3262; 3328; 3354; 3479; 3482; 3630; 3762; 4069; 4213; 4709
AciI	G!CGG	27	370; 403; 528; 767; 1079; 1121; 1369; 2003; 2030; 2118; 2228; 2809; 2873; 2974; 2977; 3257; 3312; 3410; 3548; 3695; 3835; 4078; 4323; 4444; 4463; 4590; 4618
AcI	AA!CGTT	0	
AcIWI	GGATCNNNN!	10	907; 1386; 1395; 2611; 2922; 3168; 3560; 3919; 4017; 4103
AcIWI	!NNNNNGATCC	7	580; 1154; 1373; 2987; 3531; 3918; 4015
AcoI	Y!GGCCR	5	1277; 2649; 2823; 3214; 3241
AcsI	R!AATY	4	1347; 1557; 1661; 1672
AcuI	CTGAAGNNNNNNNNNNNNNNNNN!	3	1129; 2889; 3321
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4119
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	7	122; 175; 258; 444; 2743; 3445; 3524
AdeI	CACNNN!GTG	1	1859
AfaI	GT!AC	11	219; 244; 299; 332; 383; 540; 664; 814; 1066; 1365; 3049
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	20	49; 730; 843; 1009; 1218; 1755; 2081; 2473; 2724; 3268; 3549; 3581; 3713; 3748; 3798; 3830; 4183; 4462; 4628; 4646
AflIII	C!TTAAG	0	
AflIII	A!CRYGT	2	1629; 4661
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	6	696; 2154; 2198; 2208; 2621; 4197
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	14	88; 281; 794; 842; 938; 2277; 2332; 2349; 3128; 3707; 3810; 4500; 4513; 4634
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNNGAANNNTTGG	0	
AleI	CACNN!NNGTG	1	613
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	3	1075; 2317; 2389
AlfI	!NNNNNNNNNGCANNNNNNTGC	3	1041; 2283; 2355
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	2	1020; 1825
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	2	988; 1793
AluI	AG!CT	17	566; 806; 1113; 1316; 1336; 1342; 1522; 1689; 1946; 2241; 2529; 2849; 3307; 4104; 4361; 4407; 4497
AluBI	AG!CT	17	566; 806; 1113; 1316; 1336; 1342; 1522; 1689; 1946; 2241; 2529; 2849; 3307; 4104; 4361; 4407; 4497
AlwI	GGATCNNNN!	10	907; 1386; 1395; 2611; 2922; 3168; 3560; 3919; 4017; 4103
AlwI	!NNNNNGATCC	7	580; 1154; 1373; 2987; 3531; 3918; 4015
Alw21I	GWGCW!C	5	703; 1338; 2856; 3046; 4351
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	6	1209; 1240; 2167; 2585; 3604; 3732
Alw44I	G!TGCAC	2	699; 4347
AlwNI	CAGNNN!CTG	3	1286; 3844; 4252
Ama87I	C!YCGRG	2	1331; 1374
Aor13HI	T!CCGGA	1	1318
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	1375
ApaBI	GCANNNNN!TGC	3	2311; 2383; 3845
ApaLI	G!TGCAC	2	699; 4347
ApeKI	G!CWGC	16	818; 962; 1260; 1519; 2038; 2703; 2804; 2846; 2887; 2980; 3367; 3820; 4046; 4252; 4255; 4320
ApoI	R!AATTY	4	1347; 1557; 1661; 1672
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3258
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	3052; 3705; 4543
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3142
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	794
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2571
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	3313
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNGTCCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	26	586; 636; 750; 900; 984; 1160; 1328; 1379; 1388; 1401; 2581; 2585; 2604; 2915; 2993; 3074; 3083; 3161; 3537; 3553; 3912; 3924; 4002; 4010; 4021; 4096
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2861
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	1363
AspA2I	C!CTAGG	2	2565; 3580
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	21	597; 2009; 2017; 2043; 2065; 2074; 2087; 2118; 2737; 2745; 2809; 2846; 3112; 3372; 3548; 3634; 4037; 4146; 4320; 4420; 4487
AspS9I	G!GNCC	13	83; 276; 769; 1012; 1104; 1209; 1372; 1850; 3259; 3704; 3750; 3808; 3841
AssI	AGT!ACT	0	
AsuI	TT!CGAA	2	1345; 3425
AsuC2I	CC!SGG	7	1193; 1375; 1376; 2747; 2907; 3520; 4284
AsuHPI	GGTGANNNNNNNNN!	5	376; 631; 1005; 3814; 3930
AsuHPI	!NNNNNNNTCACC	4	630; 894; 1860; 2921
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	1331; 1374
AvaII	G!GWCC	3	1209; 3259; 3704

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AviII	TGC!GCA	1	2845
AvrII	C!CTAGG	2	2565; 3580
AxyI	CC!TNAGG	3	878; 2223; 3855
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCM!C	8	676; 703; 736; 1313; 1375; 2689; 2782; 4351
BalI	TGG!CCA	2	1279; 2825
BamHI	G!GATCC	1	1378
BanI	G!GYRCC	7	465; 673; 733; 1363; 1896; 2742; 2777
BanII	GRGCY!C	5	1338; 1375; 1934; 3108; 3818
BanIII	AT!CGAT	1	2583
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	0	
BauI	C!ACGAG	3	1264; 3461; 4488
BauI	C!TCGTG	2	1114; 3335
BbeI	GGCGC!C	1	2746
Bbr7I	GAAGACNNNNNN!	1	925
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	920
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	2313; 2385; 3148
BbvI	GCAGCNNNNNNNN!	8	830; 1272; 1531; 2816; 2858; 3379; 3832; 4332
BbvI	!NNNNNNNNNNNGCTGC	7	949; 2025; 2690; 2874; 2967; 4033; 4239
Bbv12I	GWGCW!C	5	703; 1338; 2856; 3046; 4351
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	1011; 1873; 2437; 2963; 3465
BccI	!NNNNNGATGG	5	1095; 1263; 1841; 2621; 3049
BceAI	ACGGCNNNNNNNNNNNN!	5	831; 975; 1026; 3169; 3656
BceAI	!NNNNNNNNNNNNNGCCGT	3	1884; 2702; 4161
BcefI	ACGGCNNNNNNNNNNNN!	5	831; 975; 1026; 3169; 3656
BcefI	!NNNNNNNNNNNNNGCCGT	3	1885; 2703; 4162
BcgI	CGANNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2172; 2962; 4463
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	2	635; 1400
BcnI	CC!SGG	7	1193; 1375; 1376; 2747; 2907; 3520; 4284
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNNNN!	2	1423; 4596
BdaI	!NNNNNNNNNTGANNNNNTCA	2	1389; 4562
BfaI	C!TAG	9	592; 1298; 1391; 1592; 2010; 2566; 3581; 3915; 4168
BfiI	ACTGGGNNNNN!	2	1315; 2692
BfiI	!NNNNCCAGT	2	289; 2444
BfmI	C!TRYAG	4	1352; 2078; 4205; 4396
BfoI	RGCGC!Y	5	598; 2010; 2018; 2746; 4421
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2172; 2962; 4463
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	1139; 1301; 3011; 3461
BfuAI	!NNNNNNNGCAGGT	1	2630
BfuCI	!GATC	26	585; 635; 749; 899; 983; 1159; 1327; 1378; 1387; 1400; 2580; 2584; 2603; 2914; 2992; 3073; 3082; 3160; 3536; 3552; 3911; 3923; 4001; 4009; 4020; 4095
BglI	GCCNNNN!NGGC	6	90; 212; 283; 1088; 1102; 2518
BglII	A!GATCT	1	1327

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BisI	GC!NGC	33	768; 819; 963; 1080; 1261; 1520; 2039; 2061; 2075; 2513; 2652; 2704; 2715; 2805; 2810; 2847; 2888; 2975; 2978; 2981; 3217; 3313; 3354; 3368; 3482; 3821; 3836; 4047; 4253; 4256; 4321; 4464; 4619
BlnI	C!CTAGG	2	2565; 3580
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	33	769; 820; 964; 1081; 1262; 1521; 2040; 2062; 2076; 2514; 2653; 2705; 2716; 2806; 2811; 2848; 2889; 2976; 2979; 2982; 3218; 3314; 3355; 3369; 3483; 3822; 3837; 4048; 4254; 4257; 4322; 4465; 4620
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	1209; 3259; 3704
Bme1390I	CC!NGG	21	90; 283; 796; 844; 940; 1193; 1375; 1376; 2279; 2334; 2351; 2747; 2907; 3130; 3520; 3709; 3812; 4284; 4502; 4515; 4636
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	1331; 1374
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	13	84; 277; 770; 1013; 1105; 1210; 1373; 1851; 3260; 3705; 3751; 3809; 3842
BmiI	GGN!NCC	19	467; 675; 735; 1365; 1373; 1380; 1898; 1919; 1931; 2122; 2283; 2355; 2744; 2779; 3627; 3706; 3751; 4594; 4633
BmrI	ACTGGGNNNNN!	2	1315; 2692
BmrI	!NNNNCCAGT	2	289; 2444
BmrFI	CC!NGG	21	90; 283; 796; 844; 940; 1193; 1375; 1376; 2279; 2334; 2351; 2747; 2907; 3130; 3520; 3709; 3812; 4284; 4502; 4515; 4636
BmsI	GCATCNNNNN!	7	857; 1559; 2322; 2394; 3042; 3106; 3381
BmsI	!NNNNNNNNNGATGC	8	357; 1010; 1049; 1178; 2701; 2956; 3172; 4564
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1315; 2692
BmuI	!NNNNCCAGT	2	289; 2444
BoxI	GACNN!NNGTC	1	1252
BpiI	GAAGACNN!	1	920
BpiI	!NNNNNGTCTTC	0	
BpII	GAGNNNNNCTCNNNNNNNNNNNNNN!	2	2532; 3431
BpII	!NNNNNNNGAGNNNNNCTC	2	2500; 3399
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3583
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	937; 3526
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1345; 3425
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	920
BpuAI	!NNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4037; 4576
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	5	1129; 1168; 1322; 3119; 4278
BpuMI	CC!SGG	7	1193; 1375; 1376; 2747; 2907; 3520; 4284
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1240; 3732
Bsa29I	AT!CGAT	1	2583
BsaAI	YAC!GTR	3	340; 1859; 3047
BsaBI	GATNN!NNATC	2	1405; 2602
BsaHI	GR!CGYC	7	122; 175; 258; 444; 2743; 3445; 3524
BsaJI	C!CNNGG	22	360; 611; 707; 842; 843; 938; 1367; 1374; 2277; 2349; 2472; 2507; 2516; 2565; 2906; 3175; 3580; 3707; 3708; 3810; 3811; 4501
BsaMI	GAATGCN!	1	1494
BsaMI	G!CATTC	1	1587
BsaWI	W!CCGGW	8	600; 1211; 1318; 1384; 2774; 3618; 4308; 4455
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1823
BsaXI	!NNNNNNNGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1793

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNNNN	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTTG	2	1744; 3651
Bsc4I	CCNNNNN!NNGG	20	49; 730; 843; 1009; 1218; 1755; 2081; 2473; 2724; 3268; 3549; 3581; 3713; 3748; 3798; 3830; 4183; 4462; 4628; 4646
BscAI	GCATCNNNN!	7	856; 1558; 2321; 2393; 3041; 3105; 3380
BscAI	!NNNNNNGATGC	8	360; 1013; 1052; 1181; 2704; 2959; 3175; 4567
Bse1I	ACTGGN!	5	1223; 1310; 2687; 2888; 4134
Bse1I	C!CAGT	5	295; 1772; 2450; 4246; 4259
Bse8I	GATNN!NNATC	2	1405; 2602
Bse21I	CC!TNAGG	3	878; 2223; 3855
Bse118I	R!CCGGY	5	600; 1960; 3062; 3243; 3526
BseAI	T!CCGGA	1	1318
BseBI	CC!WGG	14	90; 283; 796; 844; 940; 2279; 2334; 2351; 3130; 3709; 3812; 4502; 4515; 4636
BseCI	AT!CGAT	1	2583
BseDI	C!CNNGG	22	360; 611; 707; 842; 843; 938; 1367; 1374; 2277; 2349; 2472; 2507; 2516; 2565; 2906; 3175; 3580; 3707; 3708; 3810; 3811; 4501
Bse3DI	GCAATGNN!	1	2976
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2603; 3060; 3085; 3539
BseGI	!CATCC	5	703; 791; 848; 1003; 2429
BseJI	GATNN!NNATC	2	1405; 2602
BseLI	CCNNNNN!NNGG	20	49; 730; 843; 1009; 1218; 1755; 2081; 2473; 2724; 3268; 3549; 3581; 3713; 3748; 3798; 3830; 4183; 4462; 4628; 4646
BseMI	GCAATGNN!	1	2976
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	1338; 3869
BseMII	!NNNNNNNNCTGAG	7	869; 1075; 2214; 2516; 3397; 3969; 4378
BseNI	ACTGGN!	5	1223; 1310; 2687; 2888; 4134
BseNI	C!CAGT	5	295; 1772; 2450; 4246; 4259
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2561
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	8	676; 703; 736; 1313; 1375; 2689; 2782; 4351
BseXI	GCAGCNNNNNNNN!	8	830; 1272; 1531; 2816; 2858; 3379; 3832; 4332
BseXI	!NNNNNNNNNNNGCTGC	7	949; 2025; 2690; 2874; 2967; 4033; 4239
BseX3I	C!GGCCG	1	2649
BseYI	C!CCAGC	3	2286; 2358; 4357
BseYI	G!CTGGG	2	1040; 3247
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	1117
Bsh1236I	CG!CG	16	60; 1369; 1631; 1667; 2043; 2063; 2087; 2118; 2809; 3110; 3548; 3632; 3695; 3764; 4037; 4618
Bsh1285I	CGRY!CG	3	605; 2652; 4327
BshFI	GG!CC	28	84; 277; 770; 1013; 1048; 1082; 1091; 1105; 1237; 1279; 1373; 1709; 1851; 2506; 2512; 2521; 2564; 2651; 2825; 3216; 3243; 3752; 3809; 3842; 4187; 4621; 4639; 4650
BshNI	G!GYRCC	7	465; 673; 733; 1363; 1896; 2742; 2777
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	2583
BsiEI	CGRY!CG	3	605; 2652; 4327
BsiHKAI	GWGCW!C	5	703; 1338; 2856; 3046; 4351
BsiHKCI	C!YCGRG	2	1331; 1374
BsiSI	C!CGG	22	601; 1193; 1212; 1319; 1375; 1385; 1961; 2648; 2725; 2747; 2775; 2906; 2996; 3063; 3244; 3519; 3527; 3619; 4093; 4283; 4309; 4456
BsiWI	C!GTACG	0	
BsI	CCNNNNN!NNGG	20	49; 730; 843; 1009; 1218; 1755; 2081; 2473; 2724; 3268; 3549; 3581; 3713; 3748; 3798; 3830; 4183; 4462; 4628; 4646
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2894; 3426; 3535
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2259; 2331; 2395; 3690
BsmI	GAATGCN!	1	1494

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BsmI	G!CATTC	1	1587
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	6	1209; 1240; 2167; 2585; 3604; 3732
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2894; 3426; 3535
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2259; 2331; 2395; 3690
BsnI	GG!CC	28	84; 277; 770; 1013; 1048; 1082; 1091; 1105; 1237; 1279; 1373; 1709; 1851; 2506; 2512; 2521; 2564; 2651; 2825; 3216; 3243; 3752; 3809; 3842; 4187; 4621; 4639; 4650
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	1240; 3732
BsoBI	C!YCGRG	2	1331; 1374
Bsp13I	T!CCGGA	1	1318
Bsp19I	C!CATGG	4	360; 611; 2472; 3175
Bsp24I	GACNNNNNTGGNNNNNNNNNNNN!	2	289; 3546
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	3967; 4145
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	3999; 4177
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 3514
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1345; 3425
Bsp120I	G!GGCCC	1	1371
Bsp143I	!GATC	26	585; 635; 749; 899; 983; 1159; 1327; 1378; 1387; 1400; 2580; 2584; 2603; 2914; 2992; 3073; 3082; 3160; 3536; 3552; 3911; 3923; 4001; 4009; 4020; 4095
Bsp1286I	GDGCH!C	14	676; 703; 736; 1313; 1338; 1375; 1934; 2689; 2782; 2856; 3046; 3108; 3818; 4351
Bsp1407I	T!GTACA	1	662
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	35	58; 86; 98; 112; 279; 507; 589; 932; 1070; 1172; 1367; 2058; 2061; 2075; 2165; 2413; 2425; 2434; 2446; 2456; 2467; 2513; 2652; 2715; 3217; 3262; 3328; 3354; 3479; 3482; 3630; 3762; 4069; 4213; 4709
BspACI	G!CGG	27	370; 403; 528; 767; 1079; 1121; 1369; 2003; 2030; 2118; 2228; 2809; 2873; 2974; 2977; 3257; 3312; 3410; 3548; 3695; 3835; 4078; 4323; 4444; 4463; 4590; 4618
BspCNI	CTCAGNNNNNNNN!	2	1337; 3868
BspCNI	!NNNNNNCTGAG	7	870; 1076; 2215; 2517; 3398; 3970; 4379
BspDI	AT!CGAT	1	2583
BspD6I	GACTCNNNN!	5	418; 1330; 1816; 3422; 4299
BspD6I	!NNNNNGAGTC	2	1779; 2211
BspEI	T!CCGGA	1	1318
BspFNI	CG!CG	16	60; 1369; 1631; 1667; 2043; 2063; 2087; 2118; 2809; 3110; 3548; 3632; 3695; 3764; 4037; 4618
BspHI	T!CATGA	2	2169; 3941
BspLI	GGN!NCC	19	467; 675; 735; 1365; 1373; 1380; 1898; 1919; 1931; 2122; 2283; 2355; 2744; 2779; 3627; 3706; 3751; 4594; 4633
BspMI	ACCTGCNNNN!	4	1139; 1301; 3011; 3461
BspMI	!NNNNNNNGCAGGT	1	2630
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	10	907; 1386; 1395; 2611; 2922; 3168; 3560; 3919; 4017; 4103
BspPI	!NNNNNGATCC	7	580; 1154; 1373; 2987; 3531; 3918; 4015
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3087; 3297
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1345; 3425
BspT107I	G!GYRCC	7	465; 673; 733; 1363; 1896; 2742; 2777
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1240; 3732
BsrI	ACTGGN!	5	1223; 1310; 2687; 2888; 4134
BsrI	C!CAGT	5	295; 1772; 2450; 4246; 4259
BsrBI	CCG!CTC	2	2167; 3356
BsrBI	GAG!CGG	2	2003; 3410
BsrDI	GCAATGNN!	1	2976
BsrDI	!CATTGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrFI	R!CCGGY	5	600; 1960; 3062; 3243; 3526
BsrGI	T!GTACA	1	662
BsrSI	ACTGGN!	5	1223; 1310; 2687; 2888; 4134
BsrSI	C!CAGT	5	295; 1772; 2450; 4246; 4259
BssAI	R!CCGGY	5	600; 1960; 3062; 3243; 3526
BssECI	C!CNNGG	22	360; 611; 707; 842; 843; 938; 1367; 1374; 2277; 2349; 2472; 2507; 2516; 2565; 2906; 3175; 3580; 3707; 3708; 3810; 3811; 4501
BssHII	G!CGCGC	0	
BssKI	!CCNGG	21	88; 281; 794; 842; 938; 1191; 1373; 1374; 2277; 2332; 2349; 2745; 2905; 3128; 3518; 3707; 3810; 4282; 4500; 4513; 4634
BssMI	!GATC	26	585; 635; 749; 899; 983; 1159; 1327; 1378; 1387; 1400; 2580; 2584; 2603; 2914; 2992; 3073; 3082; 3160; 3536; 3552; 3911; 3923; 4001; 4009; 4020; 4095
BssNI	GR!CGYC	7	122; 175; 258; 444; 2743; 3445; 3524
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1264; 3461; 4488
BssSI	C!TCGTG	2	1114; 3335
BssT1I	C!CWWGG	6	360; 611; 2472; 2565; 3175; 3580
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2210; 3087; 3297
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	7	122; 175; 258; 444; 2743; 3445; 3524
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	2310; 2382; 3844
BstAUI	T!GTACA	1	662
BstBI	TT!CGAA	2	1345; 3425
Bst2BI	C!ACGAG	3	1264; 3461; 4488
Bst2BI	C!TCGTG	2	1114; 3335
BstBAI	YAC!GTR	3	340; 1859; 3047
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 662; 678; 1363; 1834; 3123; 3239; 3347; 3670; 4161; 4631; 4702
BstC8I	GCN!NGC	32	86; 279; 593; 631; 721; 925; 1050; 1371; 1962; 2005; 2019; 2292; 2311; 2364; 2383; 2637; 2823; 3042; 3108; 3114; 3146; 3187; 3191; 3245; 3528; 3715; 3762; 3818; 3840; 4051; 4611; 4648
BstDEI	C!TNAG	10	878; 1084; 1175; 1324; 2223; 2525; 3406; 3855; 3978; 4387
BstDSI	C!CRYGG	5	360; 611; 1367; 2472; 3175
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2603; 3060; 3085; 3539
BstF5I	!CATCC	5	703; 791; 848; 1003; 2429
BstFNI	CG!CG	16	60; 1369; 1631; 1667; 2043; 2063; 2087; 2118; 2809; 3110; 3548; 3632; 3695; 3764; 4037; 4618
BstH2I	RGCGC!Y	5	598; 2010; 2018; 2746; 4421
BstHHI	GCG!C	21	597; 2009; 2017; 2043; 2065; 2074; 2087; 2118; 2737; 2745; 2809; 2846; 3112; 3372; 3548; 3634; 4037; 4146; 4320; 4420; 4487
BstKTI	GAT!C	26	588; 638; 752; 902; 986; 1162; 1330; 1381; 1390; 1403; 2583; 2587; 2606; 2917; 2995; 3076; 3085; 3163; 3539; 3555; 3914; 3926; 4004; 4012; 4023; 4098
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	6	1209; 1240; 2167; 2585; 3604; 3732
BstMBI	!GATC	26	585; 635; 749; 899; 983; 1159; 1327; 1378; 1387; 1400; 2580; 2584; 2603; 2914; 2992; 3073; 3082; 3160; 3536; 3552; 3911; 3923; 4001; 4009; 4020; 4095
BstMCI	CGRY!CG	3	605; 2652; 4327
BstMWI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 1088; 1102; 1970; 2000; 2027; 2069; 2310; 2382; 2433; 2512; 2734; 2818; 2841; 2980; 3103; 3186; 3453; 3640; 3844; 4043; 4615
BstNI	CC!WGG	14	90; 283; 796; 844; 940; 2279; 2334; 2351; 3130; 3709; 3812; 4502; 4515; 4636
BstNSI	RCATG!Y	5	651; 2313; 2385; 3148; 4665

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstOI	CC!WGG	14	90; 283; 796; 844; 940; 2279; 2334; 2351; 3130; 3709; 3812; 4502; 4515; 4636
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1252
BstSCI	!CCNGG	21	88; 281; 794; 842; 938; 1191; 1373; 1374; 2277; 2332; 2349; 2745; 2905; 3128; 3518; 3707; 3810; 4282; 4500; 4513; 4634
BstSFI	C!TRYAG	4	1352; 2078; 4205; 4396
BstSLI	GKGCMI!C	8	676; 703; 736; 1313; 1375; 2689; 2782; 4351
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	16	60; 1369; 1631; 1667; 2043; 2063; 2087; 2118; 2809; 3110; 3548; 3632; 3695; 3764; 4037; 4618
Bst2UI	CC!WGG	14	90; 283; 796; 844; 940; 2279; 2334; 2351; 3130; 3709; 3812; 4502; 4515; 4636
BstV1I	GCAGCNNNNNNNN!	8	830; 1272; 1531; 2816; 2858; 3379; 3832; 4332
BstV1I	!NNNNNNNNNNNGCTGC	7	949; 2025; 2690; 2874; 2967; 4033; 4239
BstV2I	GAAGACNN!	1	920
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	1	615
BstX2I	R!GATCY	12	585; 1159; 1327; 1378; 1387; 2914; 3160; 3552; 3911; 3923; 4009; 4020
BstYI	R!GATCY	12	585; 1159; 1327; 1378; 1387; 2914; 3160; 3552; 3911; 3923; 4009; 4020
BstZI	C!GGCCG	1	2649
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2172; 2962; 4463
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2583
Bsu36I	CC!TNAGG	3	878; 2223; 3855
BsuRI	GG!CC	28	84; 277; 770; 1013; 1048; 1082; 1091; 1105; 1237; 1279; 1373; 1709; 1851; 2506; 2512; 2521; 2564; 2651; 2825; 3216; 3243; 3752; 3809; 3842; 4187; 4621; 4639; 4650
BsuTUI	AT!CGAT	1	2583
BtgI	C!CRYGG	5	360; 611; 1367; 2472; 3175
BtgZI	GCGATGNNNNNNNNNN!	2	1860; 3195
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 3014; 3358
BthCI	GCNG!C	33	770; 821; 965; 1082; 1263; 1522; 2041; 2063; 2077; 2515; 2654; 2706; 2717; 2807; 2812; 2849; 2890; 2977; 2980; 2983; 3219; 3315; 3356; 3370; 3484; 3823; 3838; 4049; 4255; 4258; 4323; 4466; 4621
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	1134; 1582
BtsCI	GGATGNN!	4	2603; 3060; 3085; 3539
BtsCI	!CATCC	5	703; 791; 848; 1003; 2429
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	1139; 1301; 3011; 3461
BveI	!NNNNNNNNNGCAGGT	1	2630
Cac8I	GCN!NGC	32	86; 279; 593; 631; 721; 925; 1050; 1371; 1962; 2005; 2019; 2292; 2311; 2364; 2383; 2637; 2823; 3042; 3108; 3114; 3146; 3187; 3191; 3245; 3528; 3715; 3762; 3818; 3840; 4051; 4611; 4648
CaiI	CAGNNN!CTG	3	1286; 3844; 4252
CciI	T!CATGA	2	2169; 3941
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	352; 3032; 3037; 3235; 3376
CdiI	C!GATG	2	1846; 3181
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	4615
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2404; 2446
CelII	GC!TNAGC	0	
CfoI	GCG!C	21	597; 2009; 2017; 2043; 2065; 2074; 2087; 2118; 2737; 2745; 2809; 2846; 3112; 3372; 3548; 3634; 4037; 4146; 4320; 4420; 4487
CfrI	Y!GGCCR	5	1277; 2649; 2823; 3214; 3241
Cfr9I	C!CCGGG	1	1374

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cfr10I	R!CCGGY	5	600; 1960; 3062; 3243; 3526
Cfr13I	G!GNCC	13	83; 276; 769; 1012; 1104; 1209; 1372; 1850; 3259; 3704; 3750; 3808; 3841
Cfr42I	CCGC!GG	1	1370
ChaI	GATC!	26	589; 639; 753; 903; 987; 1163; 1331; 1382; 1391; 1404; 2584; 2588; 2607; 2918; 2996; 3077; 3086; 3164; 3540; 3556; 3915; 3927; 4005; 4013; 4024; 4099
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	6	636; 715; 2560; 4000; 4100; 4178
CjeI	!NNNNNNNNNACNNNNNNNTGG	8	64; 257; 650; 2227; 2322; 3514; 4064; 4619
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	8	98; 291; 684; 2261; 2356; 3548; 4098; 4653
CjeI	!NNNNNNNNCCANNNNNNGT	6	602; 681; 2526; 3966; 4066; 4144
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	4000; 4178
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 3514; 4113
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 3547; 4146
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	3967; 4145
Clal	AT!CGAT	1	2583
CpoI	CG!GWCCG	1	3259
CseI	GACGCNNNNN!	3	526; 3453; 3532
CseI	!NNNNNNNNNGCGTC	3	2076; 3971; 4549
CsiI	A!CCWGGT	1	2332
CspI	CG!GWCCG	1	3259
Csp6I	G!TAC	11	218; 243; 298; 331; 382; 539; 663; 813; 1065; 1364; 3048
Csp45I	TT!CGAA	2	1345; 3425
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1256; 2023; 3632
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	23	301; 361; 612; 648; 654; 666; 744; 810; 890; 1093; 2170; 2310; 2382; 2473; 2614; 2959; 3145; 3176; 3202; 3558; 3942; 4662; 4713
CviJI	RG!CY	94	42; 84; 93; 277; 566; 723; 770; 799; 806; 884; 950; 962; 1013; 1040; 1048; 1082; 1091; 1105; 1113; 1127; 1196; 1237; 1273; 1279; 1316; 1336; 1342; 1373; 1412; 1522; 1689; 1709; 1851; 1932; 1946; 1960; 2241; 2282; 2354; 2477; 2506; 2512; 2521; 2529; 2552; 2564; 2570; 2651; 2668; 2676; 2703; 2728; 2812; 2821; 2825; 2849; 2887; 2963; 2980; 2999; 3062; 3106; 3116; 3133; 3216; 3243; 3247; 3284; 3307; 3323; 3503; 3530; 3591; 3713; 3752; 3809; 3816; 3823; 3842; 3853; 4104; 4133; 4176; 4187; 4252; 4331; 4356; 4361; 4407; 4497; 4595; 4621; 4639; 4650
CviKI-1	RG!CY	94	42; 84; 93; 277; 566; 723; 770; 799; 806; 884; 950; 962; 1013; 1040; 1048; 1082; 1091; 1105; 1113; 1127; 1196; 1237; 1273; 1279; 1316; 1336; 1342; 1373; 1412; 1522; 1689; 1709; 1851; 1932; 1946; 1960; 2241; 2282; 2354; 2477; 2506; 2512; 2521; 2529; 2552; 2564; 2570; 2651; 2668; 2676; 2703; 2728; 2812; 2821; 2825; 2849; 2887; 2963; 2980; 2999; 3062; 3106; 3116; 3133; 3216; 3243; 3247; 3284; 3307; 3323; 3503; 3530; 3591; 3713; 3752; 3809; 3816; 3823; 3842; 3853; 4104; 4133; 4176; 4187; 4252; 4331; 4356; 4361; 4407; 4497; 4595; 4621; 4639; 4650
CviQI	G!TAC	11	218; 243; 298; 331; 382; 539; 663; 813; 1065; 1364; 3048
DdeI	C!TNAG	10	878; 1084; 1175; 1324; 2223; 2525; 3406; 3855; 3978; 4387
DinI	GGC!GCC	1	2744
DpnI	GA!TC	26	587; 637; 751; 901; 985; 1161; 1329; 1380; 1389; 1402; 2582; 2586; 2605; 2916; 2994; 3075; 3084; 3162; 3538; 3554; 3913; 3925; 4003; 4011; 4022; 4097
DpnII	!GATC	26	585; 635; 749; 899; 983; 1159; 1327; 1378; 1387; 1400; 2580; 2584; 2603; 2914; 2992; 3073; 3082; 3160; 3536; 3552; 3911; 3923; 4001; 4009; 4020; 4095
DraI	TTT!AAA	3	1445; 3887; 3906
DraII	RG!GNCCY	1	3841
DraIII	CACNNN!GTG	1	1859

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNN!	2	266; 4223
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNNN!NNGTC	3	1814; 2770; 4559
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNNN!NNGTC	3	1814; 2770; 4559
EaeI	Y!GGCCR	5	1277; 2649; 2823; 3214; 3241
EagI	C!GGCCG	1	2649
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2210; 3087; 3297
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	2210; 3087; 3297
EciI	GGCGGANNNNNNNNNNNN!	4	2243; 3272; 4459; 4605
EciI	!NNNNNNNNNTCCGCC	4	496; 2414; 2435; 2456
Ecl136II	GAG!CTC	1	1336
EclXI	C!GGCCG	1	2649
Eco24I	GRGCY!C	5	1338; 1375; 1934; 3108; 3818
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1240; 3732
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	1209; 3259; 3704
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	2649
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	1129; 2889; 3321
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4119
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	878; 2223; 3855
Eco88I	C!YCGRG	2	1331; 1374
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 611; 2472; 2565; 3175; 3580
Eco147I	AGG!CCT	1	2564
EcoHI	!CCSGG	7	1191; 1373; 1374; 2745; 2905; 3518; 4282
EcoICRI	GAG!CTC	1	1336
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	4	1129; 2889; 3321; 3583
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	937; 3526; 4119
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	3841
EcoRI	G!AATTC	1	1347
EcoRII	!CCWGG	14	88; 281; 794; 842; 938; 2277; 2332; 2349; 3128; 3707; 3810; 4500; 4513; 4634
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 611; 2472; 2565; 3175; 3580
EcoT22I	ATGCA!T	3	2315; 2387; 4718
EcoT38I	GRGCY!C	5	1338; 1375; 1934; 3108; 3818
Eco53kI	GAG!CTC	1	1336
EgeI	GGC!GCC	1	2744
EheI	GGC!GCC	1	2744
ErhI	C!CWWGG	6	360; 611; 2472; 2565; 3175; 3580
Esabc3I	TC!GA	17	762; 789; 1257; 1333; 1346; 1359; 1893; 2584; 2857; 3013; 3037; 3073; 3235; 3426; 3471; 3726; 4564
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	23	304; 364; 615; 651; 657; 669; 747; 813; 893; 1096; 2173; 2313; 2385; 2476; 2617; 2962; 3148; 3179; 3205; 3561; 3945; 4665; 4716

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FaiI	YA!TR	61	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 649; 655; 667; 745; 811; 891; 909; 1094; 1155; 1405; 1415; 1481; 1526; 1731; 2159; 2171; 2302; 2311; 2374; 2383; 2407; 2474; 2498; 2615; 2679; 2960; 2985; 3146; 3177; 3203; 3275; 3491; 3559; 3637; 3689; 3850; 3867; 3869; 3871; 3943; 4221; 4410; 4526; 4599; 4663; 4714
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	888; 3083
FalI	!NNNNNNNNAAGNNNNNCTT	2	856; 3051
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2894; 3426; 3535
FaqI	!NNNNNNNNNNNNNGTCCC	4	2259; 2331; 2395; 3690
FatI	!CATG	23	300; 360; 611; 647; 653; 665; 743; 809; 889; 1092; 2169; 2309; 2381; 2472; 2613; 2958; 3144; 3175; 3201; 3557; 3941; 4661; 4712
FauI	CCCGCNNNN!	10	93; 119; 286; 1077; 1179; 2065; 2420; 2441; 3637; 3769
FauI	!NNNNNNNGCGGG	7	1114; 1362; 1996; 2866; 3403; 3541; 3688
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	2	635; 1400
FblI	GT!MKAC	1	1358
FmuI	GGNC!C	13	86; 279; 772; 1015; 1107; 1212; 1375; 1853; 3262; 3707; 3753; 3811; 3844
Fnu4HI	GC!NGC	33	768; 819; 963; 1080; 1261; 1520; 2039; 2061; 2075; 2513; 2652; 2704; 2715; 2805; 2810; 2847; 2888; 2975; 2978; 2981; 3217; 3313; 3354; 3368; 3482; 3821; 3836; 4047; 4253; 4256; 4321; 4464; 4619
FokI	GGATGNNNNNNNNNN!	4	2610; 3067; 3092; 3546
FokI	!NNNNNNNNNNNNNCATCC	5	690; 778; 835; 990; 2416
FriOI	GRGCY!C	5	1338; 1375; 1934; 3108; 3818
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2845
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1298; 1391; 1592; 2010; 2566; 3581; 3915; 4168
FspEI	CCNNNNNNNNNNNN!	158	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 654; 690; 720; 737; 751; 784; 798; 816; 840; 855; 885; 918; 945; 960; 979; 1015; 1062; 1081; 1096; 1110; 1144; 1164; 1184; 1205; 1225; 1251; 1293; 1310; 1332; 1380; 1395; 1426; 1465; 1479; 1620; 1715; 1739; 1762; 1785; 1803; 1825; 1846; 1865; 1884; 1913; 1934; 1948; 1974; 2062; 2088; 2137; 2178; 2196; 2235; 2251; 2289; 2346; 2361; 2418; 2438; 2452; 2469; 2483; 2520; 2535; 2578; 2661; 2728; 2759; 2779; 2794; 2839; 2853; 2919; 2933; 2952; 2968; 3009; 3029; 3076; 3126; 3142; 3162; 3187; 3207; 3230; 3257; 3275; 3301; 3341; 3367; 3391; 3447; 3461; 3489; 3532; 3553; 3588; 3632; 3720; 3744; 3766; 3786; 3802; 3823; 3837; 3856; 3940; 3960; 3988; 4003; 4037; 4079; 4106; 4121; 4166; 4190; 4204; 4226; 4252; 4272; 4296; 4322; 4370; 4389; 4408; 4434; 4469; 4514; 4544; 4558; 4609; 4623; 4648; 4664; 4685; 4714
FspEI	!NNNNNNNNNNNNNNNGG	128	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 607; 652; 694; 715; 739; 781; 800; 829; 865; 902; 925; 944; 974; 995; 1022; 1064; 1087; 1106; 1178; 1197; 1216; 1255; 1291; 1346; 1370; 1414; 1514; 1583; 1691; 1740; 1762; 1790; 1826; 1871; 1900; 1936; 1955; 1983; 2003; 2066; 2089; 2197; 2229; 2247; 2276; 2319; 2348; 2459; 2488; 2531; 2552; 2580; 2613; 2633; 2658; 2685; 2710; 2732; 2760; 2786; 2807; 2858; 2879; 2897; 2945; 2981; 3037; 3062; 3086; 3115; 3138; 3162; 3188; 3210; 3229; 3254; 3294; 3330; 3395; 3480; 3504; 3533; 3567; 3588; 3608; 3653; 3680; 3699; 3732; 3784; 3815; 3842; 3894; 3992; 4063; 4108; 4169; 4234; 4268; 4294; 4312; 4348; 4418; 4441; 4463; 4487; 4520; 4568; 4603; 4621; 4678
Fsp4HI	GC!NGC	33	768; 819; 963; 1080; 1261; 1520; 2039; 2061; 2075; 2513; 2652; 2704; 2715; 2805; 2810; 2847; 2888; 2975; 2978; 2981; 3217; 3313; 3354; 3368; 3482; 3821; 3836; 4047; 4253; 4256; 4321; 4464; 4619
GdiII	C!GGCCR	1	2649
GdiII	Y!GGCCG	3	2649; 3214; 3241

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GlaI	GC!GC	21	596; 2008; 2016; 2042; 2064; 2073; 2086; 2117; 2736; 2744; 2808; 2845; 3111; 3371; 3547; 3633; 4036; 4145; 4319; 4419; 4486
GluI	GC!NGC	33	768; 819; 963; 1080; 1261; 1520; 2039; 2061; 2075; 2513; 2652; 2704; 2715; 2805; 2810; 2847; 2888; 2975; 2978; 2981; 3217; 3313; 3354; 3368; 3482; 3821; 3836; 4047; 4253; 4256; 4321; 4464; 4619
GsaI	CCCAG!C	3	2290; 2362; 4361
GsaI	GCTGG!G	2	1044; 3251
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3583
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	937; 3526
HaeI	WGG!CCW	8	1048; 1091; 1279; 2564; 2825; 4187; 4639; 4650
HaeII	RGCGC!Y	5	598; 2010; 2018; 2746; 4421
HaeIII	GG!CC	28	84; 277; 770; 1013; 1048; 1082; 1091; 1105; 1237; 1279; 1373; 1709; 1851; 2506; 2512; 2521; 2564; 2651; 2825; 3216; 3243; 3752; 3809; 3842; 4187; 4621; 4639; 4650
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1418; 2939
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1384; 2905
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1417; 2938
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1386; 2907
HapII	C!CGG	22	601; 1193; 1212; 1319; 1375; 1385; 1961; 2648; 2725; 2747; 2775; 2906; 2996; 3063; 3244; 3519; 3527; 3619; 4093; 4283; 4309; 4456
HgaI	GACGCNNNNN!	3	526; 3453; 3532
HgaI	!NNNNNNNNNNNGCGTC	3	2076; 3971; 4549
HhaI	GCG!C	21	597; 2009; 2017; 2043; 2065; 2074; 2087; 2118; 2737; 2745; 2809; 2846; 3112; 3372; 3548; 3634; 4037; 4146; 4320; 4420; 4487
HinI	GR!CGYC	7	122; 175; 258; 444; 2743; 3445; 3524
Hin1II	CATG!	23	304; 364; 615; 651; 657; 669; 747; 813; 893; 1096; 2173; 2313; 2385; 2476; 2617; 2962; 3148; 3179; 3205; 3561; 3945; 4665; 4716
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	2	1417; 2938
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	1385; 2906; 2936
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	3	1417; 2938; 2968
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	1385; 2906
Hin6I	G!CGC	21	595; 2007; 2015; 2041; 2063; 2072; 2085; 2116; 2735; 2743; 2807; 2844; 3110; 3370; 3546; 3632; 4035; 4144; 4318; 4418; 4485
HinP1I	G!CGC	21	595; 2007; 2015; 2041; 2063; 2072; 2085; 2116; 2735; 2743; 2807; 2844; 3110; 3370; 3546; 3632; 4035; 4144; 4318; 4418; 4485
HincII	GTY!RAC	2	1359; 1506
HindII	GTY!RAC	2	1359; 1506
HindIII	A!AGCTT	1	1340
HinfI	G!ANTC	13	410; 1226; 1322; 1786; 1808; 2218; 3228; 3362; 3414; 3472; 3509; 4291; 4687
HpaI	GTT!AAC	1	1506
HpaII	C!CGG	22	601; 1193; 1212; 1319; 1375; 1385; 1961; 2648; 2725; 2747; 2775; 2906; 2996; 3063; 3244; 3519; 3527; 3619; 4093; 4283; 4309; 4456
HphI	GGTGANNNNNNNN!	5	376; 631; 1005; 3814; 3930
HphI	!NNNNNNNTCACC	4	630; 894; 1860; 2921
Hpy8I	GTN!NAC	13	201; 539; 577; 681; 701; 996; 1209; 1359; 1506; 1790; 1807; 1862; 4349
Hpy99I	CGWCG!	9	1258; 1363; 2833; 2861; 3155; 3170; 3447; 3832; 4565
Hpy166II	GTN!NAC	13	201; 539; 577; 681; 701; 996; 1209; 1359; 1506; 1790; 1807; 1862; 4349
Hpy188I	TCN!GA	13	585; 708; 1327; 1917; 2526; 2710; 3054; 3407; 3508; 3987; 4121; 4474; 4552
Hpy188III	TC!NNGA	26	954; 981; 1146; 1185; 1319; 1331; 1391; 2170; 2222; 2535; 2588; 2761; 3077; 3086; 3169; 3225; 3269; 3359; 3392; 3461; 3942; 4016; 4099; 4197; 4295; 4429
HpyAV	CCTTCNNNNNN!	5	789; 882; 3388; 3495; 4174
HpyAV	!NNNNNGAAGG	8	709; 1976; 2871; 3600; 3616; 3799; 4116; 4426
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 662; 678; 1363; 1834; 3123; 3239; 3347; 3670; 4161; 4631; 4702

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HpyCH4IV	A!CGT	16	122; 134; 175; 258; 339; 444; 977; 1253; 1803; 1815; 1858; 1968; 2859; 3046; 3827; 3960
HpyCH4V	TG!CA	21	651; 701; 1023; 1134; 1354; 1492; 1519; 1587; 2304; 2313; 2376; 2385; 2500; 2576; 2635; 2794; 2969; 2983; 4053; 4349; 4716
HpyF3I	C!TNAG	10	878; 1084; 1175; 1324; 2223; 2525; 3406; 3855; 3978; 4387
HpyF10VI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 1088; 1102; 1970; 2000; 2027; 2069; 2310; 2382; 2433; 2512; 2734; 2818; 2841; 2980; 3103; 3186; 3453; 3640; 3844; 4043; 4615
Hsp92I	GR!CGYC	7	122; 175; 258; 444; 2743; 3445; 3524
Hsp92II	CATG!	23	304; 364; 615; 651; 657; 669; 747; 813; 893; 1096; 2173; 2313; 2385; 2476; 2617; 2962; 3148; 3179; 3205; 3561; 3945; 4665; 4716
HspAI	G!CGC	21	595; 2007; 2015; 2041; 2063; 2072; 2085; 2116; 2735; 2743; 2807; 2844; 3110; 3370; 3546; 3632; 4035; 4144; 4318; 4418; 4485
KasI	G!GCGCC	1	2742
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	1367
Kpn2I	T!CCGGA	1	1318
KspI	CCGC!GG	1	1370
Ksp22I	T!GATCA	2	635; 1400
KspAI	GTT!AAC	1	1506
Kzo9I	!GATC	26	585; 635; 749; 899; 983; 1159; 1327; 1378; 1387; 1400; 2580; 2584; 2603; 2914; 2992; 3073; 3082; 3160; 3536; 3552; 3911; 3923; 4001; 4009; 4020; 4095
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	3087; 3297
LpnI	RGC!GCG	5	596; 2008; 2016; 2744; 4419
LpnPI	CCDGNNNNNNNNN!	63	102; 295; 614; 751; 808; 856; 890; 952; 967; 1028; 1062; 1096; 1111; 1144; 1206; 1225; 1293; 1332; 1388; 1480; 1785; 1974; 2197; 2235; 2251; 2291; 2346; 2363; 2463; 2548; 2661; 2738; 2760; 2783; 2919; 2933; 2952; 3009; 3076; 3126; 3142; 3199; 3257; 3466; 3532; 3556; 3632; 3721; 3824; 3857; 4088; 4106; 4252; 4272; 4296; 4322; 4371; 4469; 4514; 4544; 4623; 4648; 4685
LpnPI	!NNNNNNNNNNNNNCHGG	53	75; 268; 552; 586; 781; 829; 925; 1026; 1178; 1197; 1291; 1360; 1826; 1946; 2003; 2066; 2264; 2276; 2336; 2348; 2580; 2625; 2668; 2710; 2732; 2760; 2807; 2869; 2891; 2981; 3048; 3071; 3115; 3210; 3229; 3254; 3403; 3504; 3547; 3604; 3694; 3797; 3824; 3842; 4078; 4115; 4268; 4294; 4434; 4452; 4487; 4568; 4621
Lsp1109I	GCAGCNNNNNNNN!	8	830; 1272; 1531; 2816; 2858; 3379; 3832; 4332
Lsp1109I	!NNNNNNNNNNNNGCTGC	7	949; 2025; 2690; 2874; 2967; 4033; 4239
LweI	GCATCNNNNN!	7	857; 1559; 2322; 2394; 3042; 3106; 3381
LweI	!NNNNNNNNNGATGC	8	357; 1010; 1049; 1178; 2701; 2956; 3172; 4564
MabI	A!CCWGGT	1	2332
MaeI	C!TAG	9	592; 1298; 1391; 1592; 2010; 2566; 3581; 3915; 4168
MaeII	A!CGT	16	122; 134; 175; 258; 339; 444; 977; 1253; 1803; 1815; 1858; 1968; 2859; 3046; 3827; 3960
MaeIII	!GTNAC	12	61; 148; 497; 1531; 2032; 2044; 2863; 3169; 3859; 4125; 4241; 4304
MalI	GA!TC	26	587; 637; 751; 901; 985; 1161; 1329; 1380; 1389; 1402; 2582; 2586; 2605; 2916; 2994; 3075; 3084; 3162; 3538; 3554; 3913; 3925; 4003; 4011; 4022; 4097
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	14	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNNGTCAAAG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2167; 3356
MbiI	GAG!CGG	2	2003; 3410
MboI	!GATC	26	585; 635; 749; 899; 983; 1159; 1327; 1378; 1387; 1400; 2580; 2584; 2603; 2914; 2992; 3073; 3082; 3160; 3536; 3552; 3911; 3923; 4001; 4009; 4020; 4095
MboII	GAAGANNNNNNNN!	8	759; 925; 1038; 1999; 2227; 3104; 3314; 3933
MboII	!NNNNNNNCTTC	4	3394; 3561; 3761; 4004
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1493

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MflI	R!GATCY	12	585; 1159; 1327; 1378; 1387; 2914; 3160; 3552; 3911; 3923; 4009; 4020
MhII	GDGCH!C	14	676; 703; 736; 1313; 1338; 1375; 1934; 2689; 2782; 2856; 3046; 3108; 3818; 4351
MIsI	TGG!CCA	2	1279; 2825
MluI	A!CGCGT	1	1629
MluNI	TGG!CCA	2	1279; 2825
MlyI	GAGTCNNNNN!	2	1795; 2227
MlyI	!NNNNNGACTC	5	404; 1316; 1802; 3408; 4285
Mly113I	GG!CGCC	1	2743
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1031; 1836
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4268; 4452
MnII	CCTCNNNNNNN!	12	782; 961; 976; 1153; 1192; 1462; 2526; 3344; 3550; 3864; 4234; 4558
MnII	!NNNNNGAGG	23	541; 615; 663; 702; 723; 756; 873; 890; 1038; 1081; 1227; 1422; 1887; 2218; 2496; 2539; 2554; 2594; 2658; 2794; 3151; 3581; 4484
Mph1103I	ATGCA!T	3	2315; 2387; 4718
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1318
MroNI	G!CCGGC	3	1960; 3243; 3526
MroXI	GAANN!NN TTC	0	
MscI	TGG!CCA	2	1279; 2825
MseI	T!TAA	16	7; 863; 1444; 1505; 1626; 1647; 1658; 1670; 1681; 1698; 1796; 2067; 3886; 3900; 3905; 3957
MslII	CAYNN!NNRTG	5	365; 613; 652; 1057; 3180
MspI	C!CGG	22	601; 1193; 1212; 1319; 1375; 1385; 1961; 2648; 2725; 2747; 2775; 2906; 2996; 3063; 3244; 3519; 3527; 3619; 4093; 4283; 4309; 4456
Msp20I	TGG!CCA	2	1279; 2825
MspAII	CMG!CKG	7	1072; 1079; 1369; 2241; 2849; 4078; 4323
MspCI	C!TTAAG	0	
MspJI	CNNRRNNNNNNNNN!	241	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; 642; 660; 678; 708; 726; 741; 756; 774; 807; 822; 850; 865; 889; 902; 918; 936; 950; 966; 979; 993; 1014; 1027; 1048; 1061; 1081; 1095; 1109; 1126; 1143; 1156; 1170; 1183; 1197; 1218; 1231; 1250; 1269; 1292; 1305; 1318; 1331; 1345; 1358; 1380; 1397; 1411; 1426; 1450; 1467; 1480; 1521; 1535; 1548; 1566; 1604; 1619; 1637; 1678; 1702; 1722; 1740; 1761; 1784; 1816; 1831; 1853; 1871; 1884; 1905; 1922; 1935; 1948; 1964; 1977; 2007; 2022; 2047; 2065; 2078; 2093; 2117; 2131; 2155; 2180; 2196; 2234; 2250; 2289; 2303; 2317; 2345; 2361; 2375; 2389; 2418; 2431; 2452; 2461; 2483; 2513; 2529; 2547; 2577; 2600; 2624; 2648; 2667; 2695; 2721; 2737; 2750; 2773; 2787; 2807; 2820; 2834; 2853; 2867; 2880; 2896; 2911; 2924; 2940; 2955; 2971; 2996; 3015; 3031; 3044; 3057; 3075; 3089; 3103; 3119; 3141; 3157; 3176; 3198; 3214; 3237; 3256; 3270; 3286; 3300; 3320; 3336; 3349; 3371; 3404; 3418; 3438; 3451; 3465; 3519; 3532; 3555; 3568; 3587; 3604; 3631; 3667; 3700; 3719; 3744; 3765; 3792; 3805; 3822; 3836; 3851; 3867; 3927; 3952; 3968; 3990; 4003; 4017; 4048; 4062; 4087; 4105; 4120; 4133; 4152; 4165; 4180; 4209; 4228; 4246; 4271; 4286; 4305; 4321; 4340; 4358; 4374; 4388; 4407; 4434; 4457; 4479; 4498; 4513; 4526; 4543; 4563; 4590; 4603; 4622; 4647; 4670; 4684; 4697; 4714

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	197	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; 634; 652; 682; 706; 724; 748; 767; 789; 829; 850; 876; 896; 925; 967; 1001; 1022; 1042; 1069; 1093; 1117; 1150; 1171; 1190; 1216; 1238; 1261; 1279; 1304; 1325; 1354; 1371; 1395; 1424; 1453; 1495; 1578; 1616; 1640; 1663; 1692; 1736; 1758; 1790; 1826; 1843; 1864; 1901; 1921; 1938; 1955; 1990; 2008; 2026; 2043; 2067; 2089; 2116; 2144; 2170; 2208; 2229; 2246; 2264; 2287; 2308; 2336; 2359; 2380; 2398; 2419; 2436; 2459; 2483; 2503; 2521; 2543; 2574; 2596; 2622; 2641; 2658; 2686; 2705; 2724; 2742; 2760; 2781; 2803; 2827; 2860; 2880; 2898; 2919; 2945; 2972; 2989; 3006; 3023; 3049; 3071; 3093; 3111; 3131; 3150; 3172; 3210; 3230; 3254; 3274; 3294; 3321; 3345; 3378; 3397; 3425; 3447; 3476; 3504; 3529; 3548; 3567; 3588; 3605; 3622; 3653; 3680; 3700; 3723; 3743; 3780; 3797; 3816; 3842; 3862; 3901; 3928; 3947; 3965; 4002; 4020; 4061; 4079; 4105; 4122; 4154; 4183; 4211; 4232; 4255; 4274; 4295; 4313; 4330; 4348; 4374; 4395; 4415; 4435; 4453; 4474; 4500; 4517; 4536; 4555; 4584; 4603; 4621; 4640; 4658; 4676; 4699
MspR9I	CC!NGG	21	90; 283; 796; 844; 940; 1193; 1375; 1376; 2279; 2334; 2351; 2747; 2907; 3130; 3520; 3709; 3812; 4284; 4502; 4515; 4636
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1493
MvaI	CC!WGG	14	90; 283; 796; 844; 940; 2279; 2334; 2351; 3130; 3709; 3812; 4502; 4515; 4636
Mva1269I	GAATGCN!	1	1494
Mva1269I	G!CATTC	1	1587
MvnI	CG!CG	16	60; 1369; 1631; 1667; 2043; 2063; 2087; 2118; 2809; 3110; 3548; 3632; 3695; 3764; 4037; 4618
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 1088; 1102; 1970; 2000; 2027; 2069; 2310; 2382; 2433; 2512; 2734; 2818; 2841; 2980; 3103; 3186; 3453; 3640; 3844; 4043; 4615
NaeI	GCC!GGC	3	1962; 3245; 3528
NarI	GG!CGCC	1	2743
NciI	CC!SGG	7	1193; 1375; 1376; 2747; 2907; 3520; 4284
NcoI	C!CATGG	4	360; 611; 2472; 3175
NdeI	CA!TATG	1	234
NdeII	!GATC	26	585; 635; 749; 899; 983; 1159; 1327; 1378; 1387; 1400; 2580; 2584; 2603; 2914; 2992; 3073; 3082; 3160; 3536; 3552; 3911; 3923; 4001; 4009; 4020; 4095
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	740
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	776
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	1960; 3243; 3526
NheI	G!CTAGC	1	591
NlaIII	CATG!	23	304; 364; 615; 651; 657; 669; 747; 813; 893; 1096; 2173; 2313; 2385; 2476; 2617; 2962; 3148; 3179; 3205; 3561; 3945; 4665; 4716
NlaIV	GGN!NCC	19	467; 675; 735; 1365; 1373; 1380; 1898; 1919; 1931; 2122; 2283; 2355; 2744; 2779; 3627; 3706; 3751; 4594; 4633
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1575; 1890; 3482
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 1000; 4554
Nlj3877I	CYCGR!G	2	1335; 1378
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2532; 2968
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1016; 2497
NmeDI	RCCGGYNNNNNNN!	5	612; 1972; 3074; 3255; 3538
NmeDI	!NNNNNNNNNNNNRCCGGY	5	587; 1947; 3049; 3230; 3513
NmuCI	!GTSAC	3	2032; 2863; 3169
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2845
NsiI	ATGCA!T	3	2315; 2387; 4718
NspI	RCATG!Y	5	651; 2313; 2385; 3148; 4665

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NspV	TT!CGAA	2	1345; 3425
OliI	CACNN!NNGTG	1	613
PabI	GTA!C	11	220; 245; 300; 333; 384; 541; 665; 815; 1067; 1366; 3050
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2313; 2385; 3148
PaeR7I	C!TCGAG	1	1331
PagI	T!CATGA	2	2169; 3941
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	843; 3708; 3811
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2564
PciI	A!CATGT	1	4661
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3087; 3297
PcsI	WCGNNNN!NNNCGW	7	1262; 3037; 3114; 3357; 3431; 3824; 4342
PctI	GAATGCN!	1	1494
PctI	G!CATTC	1	1587
PdiI	GCC!GGC	3	1962; 3245; 3528
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	6	1226; 3228; 3362; 3472; 3509; 4687
Pfl23II	C!GTACG	0	
PflFI	GACN!NNGTC	1	2861
PflMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	1	3518
PhoI	GG!CC	28	84; 277; 770; 1013; 1048; 1082; 1091; 1105; 1237; 1279; 1373; 1709; 1851; 2506; 2512; 2521; 2564; 2651; 2825; 3216; 3243; 3752; 3809; 3842; 4187; 4621; 4639; 4650
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	1	3124
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	2689; 2944
PleI	GAGTCNNNN!	2	1794; 2226
PleI	!NNNNNGACTC	5	404; 1316; 1802; 3408; 4285
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNNCTCNNNNNNNNNNNNNNNNNNNN!	1	1825
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	3955
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNNNNNNNN!	1	3987
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1793
PpsI	GAGTCNNNN!	2	1794; 2226
PpsI	!NNNNNGACTC	5	404; 1316; 1802; 3408; 4285
Ppu10I	A!TGCAT	3	2311; 2383; 4714
Ppu21I	YAC!GTR	3	340; 1859; 3047
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4661
PshAI	GACNN!NNGTC	1	1252
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1526; 1731
Psp03I	GGWC!C	3	1212; 3262; 3707
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	14	88; 281; 794; 842; 938; 2277; 2332; 2349; 3128; 3707; 3810; 4500; 4513; 4634
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1338
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	14	88; 281; 794; 842; 938; 2277; 2332; 2349; 3128; 3707; 3810; 4500; 4513; 4634
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	19	467; 675; 735; 1365; 1373; 1380; 1898; 1919; 1931; 2122; 2283; 2355; 2744; 2779; 3627; 3706; 3751; 4594; 4633
PspOMI	G!GGCCC	1	1371
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	3	125; 2473; 3472

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2875
PspPI	G!GNCC	13	83; 276; 769; 1012; 1104; 1209; 1372; 1850; 3259; 3704; 3750; 3808; 3841
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	2296; 2368; 3874
PspPRI	!NNNNNNNNNNNNNCTGRGG	4	864; 1292; 2209; 3404
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3844
PstI	CTGCA!G	1	1356
PstNI	CAGNNN!CTG	3	1286; 3844; 4252
PsuI	R!GATCY	12	585; 1159; 1327; 1378; 1387; 2914; 3160; 3552; 3911; 3923; 4009; 4020
PsyI	GACN!NNGTC	1	2861
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2241; 2849
RcaI	T!CATGA	2	2169; 3941
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	3258
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	1472
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNCTGCCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	11	219; 244; 299; 332; 383; 540; 664; 814; 1066; 1365; 3049
RsaNI	G!TAC	11	218; 243; 298; 331; 382; 539; 663; 813; 1065; 1364; 3048
RseI	CAYNN!NNRTG	5	365; 613; 652; 1057; 3180
RsrII	CG!GWCCG	1	3259
Rsr2I	CG!GWCCG	1	3259
SacI	GAGCT!C	1	1338
SacII	CCGC!GG	1	1370
SalI	G!TCGAC	1	1357
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	3087; 3297
SaqAI	T!TAA	16	7; 863; 1444; 1505; 1626; 1647; 1658; 1670; 1681; 1698; 1796; 2067; 3886; 3900; 3905; 3957
SatI	GC!NGC	33	768; 819; 963; 1080; 1261; 1520; 2039; 2061; 2075; 2513; 2652; 2704; 2715; 2805; 2810; 2847; 2888; 2975; 2978; 2981; 3217; 3313; 3354; 3368; 3482; 3821; 3836; 4047; 4253; 4256; 4321; 4464; 4619
Sau96I	G!GNCC	13	83; 276; 769; 1012; 1104; 1209; 1372; 1850; 3259; 3704; 3750; 3808; 3841
Sau3AI	!GATC	26	585; 635; 749; 899; 983; 1159; 1327; 1378; 1387; 1400; 2580; 2584; 2603; 2914; 2992; 3073; 3082; 3160; 3536; 3552; 3911; 3923; 4001; 4009; 4020; 4095
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1795; 2227
SchI	!NNNNNGACTC	5	404; 1316; 1802; 3408; 4285
SciI	CTC!GAG	1	1333
ScrFI	CC!NGG	21	90; 283; 796; 844; 940; 1193; 1375; 1376; 2279; 2334; 2351; 2747; 2907; 3130; 3520; 3709; 3812; 4284; 4502; 4515; 4636
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	1050; 2321; 2393; 2562; 4504
SdeAI	!NNNNNNNNNNNNNNNNNNNCTYCTG	2	2898; 3383
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SdeOSI	!NNNNNNNNNTCAYNNNGTC	0	
SdeOSI	TCAYNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	14	676; 703; 736; 1313; 1338; 1375; 1934; 2689; 2782; 2856; 3046; 3108; 3818; 4351
SeI	!CGCG	16	58; 1367; 1629; 1665; 2041; 2061; 2085; 2116; 2807; 3108; 3546; 3630; 3693; 3762; 4035; 4616
SetI	ASST!	62	125; 137; 178; 261; 308; 342; 447; 552; 568; 758; 808; 829; 980; 1115; 1133; 1184; 1252; 1256; 1295; 1318; 1338; 1344; 1433; 1454; 1463; 1475; 1524; 1691; 1806; 1818; 1861; 1898; 1948; 1971; 2095; 2243; 2338; 2531; 2644; 2772; 2851; 2862; 2934; 3005; 3049; 3309; 3455; 3499; 3830; 3861; 3920; 3963; 4106; 4127; 4226; 4363; 4378; 4397; 4409; 4453; 4499; 4550
SexAI	A!CCWGGT	1	2332
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	857; 1559; 2322; 2394; 3042; 3106; 3381
SfaNI	!NNNNNNNNNGATGC	8	357; 1010; 1049; 1178; 2701; 2956; 3172; 4564
SfcI	C!TRYAG	4	1352; 2078; 4205; 4396
SfiI	GGCCNNNN!NGGCC	2	1088; 2518
SfoI	GGC!GCC	1	2744
Sfr274I	C!TCGAG	1	1331
Sfr303I	CCGC!GG	1	1370
SfuI	TT!CGAA	2	1345; 3425
SgeI	CNNGNNNNNNNN!	190	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 642; 660; 678; 708; 732; 750; 765; 807; 822; 855; 889; 902; 930; 951; 966; 993; 1027; 1048; 1061; 1081; 1095; 1110; 1126; 1143; 1158; 1176; 1197; 1218; 1231; 1269; 1292; 1305; 1318; 1331; 1345; 1380; 1397; 1450; 1479; 1521; 1604; 1642; 1678; 1762; 1784; 1816; 1853; 1871; 1890; 1905; 1947; 1964; 1981; 2016; 2030; 2047; 2069; 2093; 2117; 2182; 2196; 2234; 2250; 2290; 2303; 2322; 2345; 2362; 2375; 2394; 2424; 2445; 2462; 2485; 2520; 2547; 2578; 2600; 2626; 2648; 2667; 2695; 2731; 2750; 2773; 2787; 2807; 2820; 2834; 2853; 2867; 2886; 2918; 2932; 2945; 2971; 3002; 3015; 3032; 3049; 3063; 3080; 3098; 3113; 3141; 3157; 3176; 3198; 3214; 3237; 3256; 3281; 3300; 3320; 3347; 3371; 3404; 3423; 3451; 3465; 3531; 3555; 3570; 3593; 3614; 3631; 3679; 3706; 3720; 3749; 3773; 3806; 3823; 3843; 3856; 3869; 3927; 3954; 3973; 4003; 4028; 4048; 4062; 4087; 4105; 4142; 4180; 4209; 4237; 4251; 4271; 4286; 4307; 4321; 4340; 4358; 4374; 4414; 4434; 4461; 4479; 4500; 4513; 4526; 4543; 4567; 4590; 4622; 4647; 4674; 4696
SgeI	!NNNNNNNNNNNCNNG	165	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 616; 634; 652; 682; 706; 724; 748; 781; 829; 863; 904; 925; 967; 1001; 1022; 1042; 1069; 1093; 1117; 1150; 1171; 1192; 1216; 1243; 1266; 1284; 1305; 1325; 1354; 1371; 1424; 1453; 1495; 1578; 1616; 1652; 1736; 1758; 1790; 1827; 1845; 1864; 1921; 1938; 1955; 1990; 2008; 2028; 2048; 2067; 2091; 2156; 2208; 2264; 2296; 2319; 2336; 2368; 2398; 2419; 2436; 2459; 2494; 2521; 2552; 2574; 2600; 2622; 2641; 2669; 2705; 2724; 2747; 2768; 2786; 2803; 2827; 2860; 2892; 2919; 2945; 2976; 3006; 3023; 3049; 3072; 3093; 3115; 3135; 3155; 3172; 3211; 3230; 3255; 3274; 3294; 3321; 3345; 3378; 3397; 3425; 3447; 3505; 3529; 3548; 3567; 3588; 3605; 3653; 3680; 3700; 3723; 3747; 3780; 3797; 3817; 3843; 3901; 3928; 3947; 3977; 4002; 4022; 4061; 4079; 4116; 4154; 4183; 4211; 4232; 4260; 4281; 4314; 4332; 4388; 4408; 4435; 4453; 4474; 4500; 4517; 4541; 4564; 4596; 4621; 4648; 4670; 4699
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	1370
SgrDI	CG!TCGACG	0	
SgsI	GG!CGGCC	0	
SimI	GG!GTC	4	27; 1890; 3677; 4470

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SimI	!GACCC	4	106; 3171; 3739; 3987
SinI	G!GWCC	3	1209; 3259; 3704
SlaI	C!TCGAG	1	1331
SmaI	CCC!GGG	1	1376
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 613; 652; 1057; 3180
SmlI	C!TYRAG	8	1144; 1183; 1331; 1337; 3134; 4016; 4293; 4555
SmoI	C!TYRAG	8	1144; 1183; 1331; 1337; 3134; 4016; 4293; 4555
SmuI	CCCGCNNNN!	10	93; 119; 286; 1077; 1179; 2065; 2420; 2441; 3637; 3769
SmuI	!NNNNNNGCGGG	7	1114; 1362; 1996; 2866; 3403; 3541; 3688
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2313; 2385; 3148
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 1347; 1493; 1557; 1635; 1661; 1672; 2319; 2391; 2483; 3901
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2564
SsiI	C!CGC	35	58; 86; 98; 112; 279; 507; 589; 932; 1070; 1172; 1367; 2058; 2061; 2075; 2165; 2413; 2425; 2434; 2446; 2456; 2467; 2513; 2652; 2715; 3217; 3262; 3328; 3354; 3479; 3482; 3630; 3762; 4069; 4213; 4709
SsiI	G!CGG	27	370; 403; 528; 767; 1079; 1121; 1369; 2003; 2030; 2118; 2228; 2809; 2873; 2974; 2977; 3257; 3312; 3410; 3548; 3695; 3835; 4078; 4323; 4444; 4463; 4590; 4618
SspI	AAT!ATT	2	1651; 2204
SspDI	G!GCGCC	1	2742
SspD5I	GGTGANNNNNNNN!	5	376; 631; 1005; 3814; 3930
SspD5I	!NNNNNNNNTCACC	4	629; 893; 1859; 2920
SstI	GAGCT!C	1	1338
SstII	CCGC!GG	1	1370
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	1	938
SstE37I	!NNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	20	92; 118; 285; 860; 1076; 1178; 1199; 1381; 1942; 2064; 2419; 2440; 2753; 3156; 3295; 3366; 3636; 3768; 3998; 4436
Sth132I	!NNNNNNNNGCGG	22	15; 407; 470; 909; 981; 1113; 1361; 1943; 1995; 2096; 2823; 2865; 2898; 3402; 3511; 3540; 3687; 3791; 3822; 4275; 4319; 4527
Sth302II	CC!GG	22	602; 1194; 1213; 1320; 1376; 1386; 1962; 2649; 2726; 2748; 2776; 2907; 2997; 3064; 3245; 3520; 3528; 3620; 4094; 4284; 4310; 4457
StrI	C!TCGAG	1	1331
StsI	GGATGNNNNNNNNNN!	4	2611; 3068; 3093; 3547
StsI	!NNNNNNNNNNNNNCATCC	5	689; 777; 834; 989; 2415
StuI	AGG!CCT	1	2564
StyI	C!CWWGG	6	360; 611; 2472; 2565; 3175; 3580
StyD4I	!CCNGG	21	88; 281; 794; 842; 938; 1191; 1373; 1374; 2277; 2332; 2349; 2745; 2905; 3128; 3518; 3707; 3810; 4282; 4500; 4513; 4634
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 662; 678; 1363; 1834; 3123; 3239; 3347; 3670; 4161; 4631; 4702
TaiI	ACGT!	16	125; 137; 178; 261; 342; 447; 980; 1256; 1806; 1818; 1861; 1971; 2862; 3049; 3830; 3963
TaqI	T!CGA	17	761; 788; 1256; 1332; 1345; 1358; 1892; 2583; 2856; 3012; 3036; 3072; 3234; 3425; 3470; 3725; 4563
TaqII	GACCGANNNNNNNNNN!	3	1763; 2780; 3448
TaqII	!NNNNNNNNNTCGGTC	1	3692
TaqII	CACCCANNNNNNNNNN!	2	751; 856
TaqII	!NNNNNNNNNTGGGTG	4	172; 607; 2647; 3239
TasI	!AATT	11	18; 1347; 1493; 1557; 1635; 1661; 1672; 2319; 2391; 2483; 3901
TatI	W!GTACW	5	217; 297; 330; 381; 662

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TauI	GCSG!C	17	770; 1082; 2063; 2077; 2515; 2654; 2717; 2812; 2977; 2980; 3219; 3315; 3356; 3484; 3838; 4466; 4621
TfiI	G!AWTC	6	1226; 3228; 3362; 3472; 3509; 4687
TliI	C!TCGAG	1	1331
TruI	T!TAA	16	7; 863; 1444; 1505; 1626; 1647; 1658; 1670; 1681; 1698; 1796; 2067; 3886; 3900; 3905; 3957
Tru9I	T!TAA	16	7; 863; 1444; 1505; 1626; 1647; 1658; 1670; 1681; 1698; 1796; 2067; 3886; 3900; 3905; 3957
TscAI	CASTGNN!	6	1141; 1589; 2872; 3982; 4253; 4266
TseI	G!CWGC	16	818; 962; 1260; 1519; 2038; 2703; 2804; 2846; 2887; 2980; 3367; 3820; 4046; 4252; 4255; 4320
TsoI	TARCCANNNNNNNNNNN!	2	1715; 2062
TsoI	!NNNNNNNNNTGGYTA	3	787; 1520; 3272
Tsp45I	!GTSAC	3	2032; 2863; 3169
Tsp509I	!AATT	11	18; 1347; 1493; 1557; 1635; 1661; 1672; 2319; 2391; 2483; 3901
TspDTI	ATGAANNNNNNNNNNN!	5	670; 760; 1501; 2802; 3506
TspDTI	!NNNNNNNNNTTCAT	5	26; 798; 3220; 3676; 3883
TspEI	!AATT	11	18; 1347; 1493; 1557; 1635; 1661; 1672; 2319; 2391; 2483; 3901
TspGWI	ACGGANNNNNNNNNNN!	1	3618
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1374
TspRI	CASTGNN!	6	1141; 1589; 2872; 3982; 4253; 4266
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2861
Tth111II	CAARCANNNNNNNNNNN!	1	4070
Tth111III	!NNNNNNNNNTGYTTG	3	3178; 4038; 4077
UnbI	!GGNCC	13	82; 275; 768; 1011; 1103; 1208; 1371; 1849; 3258; 3703; 3749; 3807; 3840
Van91I	CCANNNNN!NTGG	0	
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	699; 4347
VpaK11AI	!GGWCC	3	1208; 3258; 3703
VpaK11BI	G!GWCC	3	1209; 3259; 3704
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	1347; 1557; 1661; 1672
XbaI	T!CTAGA	1	1390
XceI	RCATG!Y	5	651; 2313; 2385; 3148; 4665
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	1331
XhoII	R!GATCY	12	585; 1159; 1327; 1378; 1387; 2914; 3160; 3552; 3911; 3923; 4009; 4020
XmaI	C!CCGGG	1	1374
XmaJI	C!CTAGG	2	2565; 3580
XmiI	GT!MKAC	1	1358
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	9	592; 1298; 1391; 1592; 2010; 2566; 3581; 3915; 4168
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2315; 2387; 4718