

pTurboRFP-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	1520; 1725
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1808; 2764; 4553
AatI	AGG!CCT	1	2558
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1352
AccII	CG!CG	17	60; 1025; 1363; 1625; 1661; 2037; 2057; 2081; 2112; 2803; 3104; 3542; 3626; 3689; 3758; 4031; 4612
AccIII	T!CCGGA	1	1312
Acc16I	TGC!GCA	1	2839
Acc36I	ACCTGCNNNN!	3	1127; 3005; 3455
Acc36I	!NNNNNNNNGCAGGT	1	2624
Acc65I	G!GTACC	1	1357
AccB1I	G!GYRCC	7	465; 661; 721; 1357; 1890; 2736; 2771
AccB7I	CCANNNN!NTGG	2	1194; 1206
AccBSI	CCG!CTC	2	2161; 3350
AccBSI	GAG!CGG	2	1997; 3404
AceIII	CAGCTCNNNNNNN!	1	1693
AceIII	!NNNNNNNNNNNGAGCTG	2	552; 607
AciI	C!CGC	35	58; 86; 98; 112; 279; 507; 589; 920; 1058; 1160; 1361; 2052; 2055; 2069; 2159; 2407; 2419; 2428; 2440; 2450; 2461; 2507; 2646; 2709; 3211; 3256; 3322; 3348; 3473; 3476; 3624; 3756; 4063; 4207; 4703
AciI	G!CGG	28	370; 403; 528; 755; 1025; 1067; 1109; 1363; 1997; 2024; 2112; 2222; 2803; 2867; 2968; 2971; 3251; 3306; 3404; 3542; 3689; 3829; 4072; 4317; 4438; 4457; 4584; 4612
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	1380; 1389; 2605; 2916; 3162; 3554; 3913; 4011; 4097
AclWI	!NNNNNGATCC	7	580; 1142; 1367; 2981; 3525; 3912; 4009
AcoI	Y!GGCCR	5	1265; 2643; 2817; 3208; 3235
AcsI	R!AATY	4	1341; 1551; 1655; 1666
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	1117; 2883; 3315
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4113
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	7	122; 175; 258; 444; 2737; 3439; 3518
AdeI	CACNNN!GTG	2	1194; 1853
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 652; 802; 1054; 1273; 1359; 3043
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	22	49; 718; 831; 997; 1063; 1194; 1206; 1749; 2075; 2467; 2718; 3262; 3543; 3575; 3707; 3742; 3792; 3824; 4177; 4456; 4622; 4640
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	2	1623; 4655
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	7	684; 1134; 2148; 2192; 2202; 2615; 4191
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	14	88; 281; 782; 830; 926; 2271; 2326; 2343; 3122; 3701; 3804; 4494; 4507; 4628
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	0	
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	2	2311; 2383
AlfI	!NNNNNNNNNNGCANNNNNTGC	2	2277; 2349
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	2	1008; 1819
AloI	!NNNNNNNGGANNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	2	976; 1787
AluI	AG!CT	19	566; 621; 648; 794; 938; 1101; 1330; 1336; 1516; 1683; 1940; 2235; 2523; 2843; 3301; 4098; 4355; 4401; 4491
AluBI	AG!CT	19	566; 621; 648; 794; 938; 1101; 1330; 1336; 1516; 1683; 1940; 2235; 2523; 2843; 3301; 4098; 4355; 4401; 4491
AlwI	GGATCNNNN!	9	1380; 1389; 2605; 2916; 3162; 3554; 3913; 4011; 4097
AlwI	!NNNNNGATCC	7	580; 1142; 1367; 2981; 3525; 3912; 4009
Alw21I	GWGCW!C	5	691; 1332; 2850; 3040; 4345
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1228; 2161; 2579; 3598; 3726
Alw44I	G!TGCAC	2	687; 4341
AlwNI	CAGNNN!CTG	2	3838; 4246
Ama87I	C!YCGRG	2	1325; 1368
Aor13HI	T!CCGGA	1	1312
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	1369
ApaBI	GCANNNNN!TGC	3	2305; 2377; 3839
ApaLI	G!TGCAC	2	687; 4341
ApeKI	G!CWGC	16	806; 950; 1248; 1513; 2032; 2697; 2798; 2840; 2881; 2974; 3361; 3814; 4040; 4246; 4249; 4314
ApoI	R!AATTY	4	1341; 1551; 1655; 1666
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3252
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3046; 3699; 4537
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3136
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	782
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2565
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	3307
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	25	586; 624; 738; 972; 1148; 1322; 1373; 1382; 1395; 2575; 2579; 2598; 2909; 2987; 3068; 3077; 3155; 3531; 3547; 3906; 3918; 3996; 4004; 4015; 4090
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2855
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	1357
AspA2I	C!CTAGG	2	2559; 3574
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	21	597; 2003; 2011; 2037; 2059; 2068; 2081; 2112; 2731; 2739; 2803; 2840; 3106; 3366; 3542; 3628; 4031; 4140; 4314; 4414; 4481
AspS9I	G!GNCC	13	83; 276; 757; 1000; 1092; 1197; 1366; 1844; 3253; 3698; 3744; 3802; 3835
AssI	AGT!ACT	1	1273
AsuII	TT!CGAA	2	1339; 3419
AsuC2I	CC!SGG	7	1181; 1369; 1370; 2741; 2901; 3514; 4278
AsuHPI	GGTGANNNNNNNN!	4	376; 993; 3808; 3924
AsuHPI	!NNNNNNNTCACC	3	882; 1854; 2915
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	1325; 1368
AvaII	G!GWCC	3	1197; 3253; 3698
AviII	TGC!GCA	1	2839

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AvrII	C!CTAGG	2	2559; 3574
AxyI	CC!TNAGG	3	866; 2217; 3849
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	664; 691; 724; 1301; 1369; 2683; 2776; 4345
BalI	TGG!CCA	2	1267; 2819
BamHI	G!GATCC	1	1372
BanI	G!GYRCC	7	465; 661; 721; 1357; 1890; 2736; 2771
BanII	GRGCY!C	5	1332; 1369; 1928; 3102; 3812
BanIII	AT!CGAT	1	2577
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	2	1194; 1206
BauI	C!ACGAG	3	1252; 3455; 4482
BauI	C!TCGTG	2	1102; 3329
BbeI	GGCGC!C	1	2740
Bbr7I	GAAGACNNNNNN!	1	913
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	908
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2307; 2379; 3142
BbvI	GCAGCNNNNNNNN!	8	818; 1260; 1525; 2810; 2852; 3373; 3826; 4326
BbvI	!NNNNNNNNNNNGCTGC	7	937; 2019; 2684; 2868; 2961; 4027; 4233
Bbv12I	GWGCW!C	5	691; 1332; 2850; 3040; 4345
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	999; 1867; 2431; 2957; 3459
BccI	!NNNNNGATGG	5	1083; 1251; 1835; 2615; 3043
BceAI	ACGGCNNNNNNNNNN!	6	819; 963; 1014; 1080; 3163; 3650
BceAI	!NNNNNNNNNNNGCCGT	3	1878; 2696; 4155
BceFI	ACGGCNNNNNNNNNN!	6	819; 963; 1014; 1080; 3163; 3650
BceFI	!NNNNNNNNNNNGCCGT	3	1879; 2697; 4156
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2166; 2956; 4457
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	2	623; 1394
BcnI	CC!SGG	7	1181; 1369; 1370; 2741; 2901; 3514; 4278
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNN!	2	1417; 4590
BdaI	!NNNNNNNNNNTGANNNNNNTCA	2	1383; 4556
BfaI	C!TAG	9	592; 1286; 1385; 1586; 2004; 2560; 3575; 3909; 4162
BfiI	ACTGGGNNNNN!	2	1303; 2686
BfiI	!NNNCCCAGT	2	289; 2438
BfmI	C!TRYAG	4	1346; 2072; 4199; 4390
BfoI	RGCGC!Y	5	598; 2004; 2012; 2740; 4415
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2166; 2956; 4457
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	3	1127; 3005; 3455
BfuAI	!NNNNNNNNNGCAGGT	1	2624
BfuCI	!GATC	25	585; 623; 737; 971; 1147; 1321; 1372; 1381; 1394; 2574; 2578; 2597; 2908; 2986; 3067; 3076; 3154; 3530; 3546; 3905; 3917; 3995; 4003; 4014; 4089
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1076; 2512
BglII	A!GATCT	1	1321

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BisI	GC!NGC	34	756; 807; 951; 1026; 1068; 1249; 1514; 2033; 2055; 2069; 2507; 2646; 2698; 2709; 2799; 2804; 2841; 2882; 2969; 2972; 2975; 3211; 3307; 3348; 3362; 3476; 3815; 3830; 4041; 4247; 4250; 4315; 4458; 4613
BlnI	C!CTAGG	2	2559; 3574
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	34	757; 808; 952; 1027; 1069; 1250; 1515; 2034; 2056; 2070; 2508; 2647; 2699; 2710; 2800; 2805; 2842; 2883; 2970; 2973; 2976; 3212; 3308; 3349; 3363; 3477; 3816; 3831; 4042; 4248; 4251; 4316; 4459; 4614
BmcAI	AGT!ACT	1	1273
Bme18I	G!GWCC	3	1197; 3253; 3698
Bme1390I	CC!NGG	21	90; 283; 784; 832; 928; 1181; 1369; 1370; 2273; 2328; 2345; 2741; 2901; 3124; 3514; 3703; 3806; 4278; 4496; 4509; 4630
BmeRI	GACNN!NNGTC	0	
BmeT110I	C!YCGRG	2	1325; 1368
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	13	84; 277; 758; 1001; 1093; 1198; 1367; 1845; 3254; 3699; 3745; 3803; 3836
BmiI	GGN!NCC	19	467; 663; 723; 1359; 1367; 1374; 1892; 1913; 1925; 2116; 2277; 2349; 2738; 2773; 3621; 3700; 3745; 4588; 4627
BmrI	ACTGGGNNNNN!	2	1303; 2686
BmrI	!NNNNCCCCAGT	2	289; 2438
BmrFI	CC!NGG	21	90; 283; 784; 832; 928; 1181; 1369; 1370; 2273; 2328; 2345; 2741; 2901; 3124; 3514; 3703; 3806; 4278; 4496; 4509; 4630
BmsI	GCATCNNNNN!	8	845; 962; 1553; 2316; 2388; 3036; 3100; 3375
BmsI	!NNNNNNNNNGATGC	8	357; 998; 1037; 1166; 2695; 2950; 3166; 4558
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1303; 2686
BmuI	!NNNNCCCCAGT	2	289; 2438
BoxI	GACNN!NNGTC	1	1240
BpiI	GAAGACNN!	1	908
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2526; 3425
BpI	!NNNNNNNNGAGNNNNNCTC	2	2494; 3393
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3577
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	1	3520
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1339; 3419
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	908
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4031; 4570
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	4	1156; 1316; 3113; 4272
BpuMI	CC!SGG	7	1181; 1369; 1370; 2741; 2901; 3514; 4278
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1228; 3726
Bsa29I	AT!CGAT	1	2577
BsaAI	YAC!GTR	3	340; 1853; 3041
BsaBI	GATNN!NNATC	2	1399; 2596
BsaHI	GR!CGYC	7	122; 175; 258; 444; 2737; 3439; 3518
BsaJI	C!CNNGG	21	360; 695; 830; 831; 926; 1361; 1368; 2271; 2343; 2466; 2501; 2510; 2559; 2900; 3169; 3574; 3701; 3702; 3804; 3805; 4495
BsaMI	GAATGCN!	1	1488
BsaMI	G!CATTC	1	1581
BsaWI	W!CCGGW	7	600; 1312; 1378; 2768; 3612; 4302; 4449
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1817
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1787
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	1	1064
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	2	1738; 3645

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Bsc4I	CCNNNNN!NNGG	22	49; 718; 831; 997; 1063; 1194; 1206; 1749; 2075; 2467; 2718; 3262; 3543; 3575; 3707; 3742; 3792; 3824; 4177; 4456; 4622; 4640
BscAI	GCATCNNNN!	8	844; 961; 1552; 2315; 2387; 3035; 3099; 3374
BscAI	!NNNNNNGATGC	8	360; 1001; 1040; 1169; 2698; 2953; 3169; 4561
BseI	ACTGGN!	5	1211; 1298; 2681; 2882; 4128
BseI	C!CAGT	5	295; 1766; 2444; 4240; 4253
Bse8I	GATNN!NNATC	2	1399; 2596
Bse21I	CC!TNAGG	3	866; 2217; 3849
Bse118I	R!CCGGY	5	600; 1954; 3056; 3237; 3520
BseAI	T!CCGGA	1	1312
BseBI	CC!WGG	14	90; 283; 784; 832; 928; 2273; 2328; 2345; 3124; 3703; 3806; 4496; 4509; 4630
BseCI	AT!CGAT	1	2577
BseDI	C!CNNGG	21	360; 695; 830; 831; 926; 1361; 1368; 2271; 2343; 2466; 2501; 2510; 2559; 2900; 3169; 3574; 3701; 3702; 3804; 3805; 4495
Bse3DI	GCAATGNN!	1	2970
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2597; 3054; 3079; 3533
BseGI	!CATCC	5	691; 779; 836; 991; 2423
BseJ	GATNN!NNATC	2	1399; 2596
BseLI	CCNNNNN!NNGG	22	49; 718; 831; 997; 1063; 1194; 1206; 1749; 2075; 2467; 2718; 3262; 3543; 3575; 3707; 3742; 3792; 3824; 4177; 4456; 4622; 4640
BseMI	GCAATGNN!	1	2970
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	1332; 3863
BseMII	!NNNNNNNNNCTGAG	7	857; 1063; 2208; 2510; 3391; 3963; 4372
BseNI	ACTGGN!	5	1211; 1298; 2681; 2882; 4128
BseNI	C!CAGT	5	295; 1766; 2444; 4240; 4253
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2555
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGCMI!	8	664; 691; 724; 1301; 1369; 2683; 2776; 4345
BseXI	GCAGCNNNNNNNN!	8	818; 1260; 1525; 2810; 2852; 3373; 3826; 4326
BseXI	!NNNNNNNNNNNNGCTGC	7	937; 2019; 2684; 2868; 2961; 4027; 4233
BseX3I	C!GGCCG	1	2643
BseYI	C!CCAGC	3	2280; 2352; 4351
BseYI	G!CTGGG	2	1028; 3241
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNCTGCAC	1	1105
Bsh1236I	CG!CG	17	60; 1025; 1363; 1625; 1661; 2037; 2057; 2081; 2112; 2803; 3104; 3542; 3626; 3689; 3758; 4031; 4612
Bsh1285I	CGRY!CG	3	605; 2646; 4321
BshFI	GG!CC	28	84; 277; 758; 1001; 1036; 1070; 1079; 1093; 1225; 1267; 1367; 1703; 1845; 2500; 2506; 2515; 2558; 2645; 2819; 3210; 3237; 3746; 3803; 3836; 4181; 4615; 4633; 4644
BshNI	G!GYRCC	7	465; 661; 721; 1357; 1890; 2736; 2771
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	2577
BsiEI	CGRY!CG	3	605; 2646; 4321
BsiHKAI	GWGCW!C	5	691; 1332; 2850; 3040; 4345
BsiHKCI	C!YCGRG	2	1325; 1368
BsiSI	C!CGG	21	601; 1181; 1313; 1369; 1379; 1955; 2642; 2719; 2741; 2769; 2900; 2990; 3057; 3238; 3513; 3521; 3613; 4087; 4277; 4303; 4450
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	22	49; 718; 831; 997; 1063; 1194; 1206; 1749; 2075; 2467; 2718; 3262; 3543; 3575; 3707; 3742; 3792; 3824; 4177; 4456; 4622; 4640
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2888; 3420; 3529
BsIFI	!NNNNNNNNNNNNNNGTCCC	4	2253; 2325; 2389; 3684
BsmI	GAATGCN!	1	1488
BsmI	G!CATTC	1	1581
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	1228; 2161; 2579; 3598; 3726

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BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2888; 3420; 3529
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2253; 2325; 2389; 3684
BsnI	GG!CC	28	84; 277; 758; 1001; 1036; 1070; 1079; 1093; 1225; 1267; 1367; 1703; 1845; 2500; 2506; 2515; 2558; 2645; 2819; 3210; 3237; 3746; 3803; 3836; 4181; 4615; 4633; 4644
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACG	2	1228; 3726
BsoBI	C!YCGRG	2	1325; 1368
Bsp13I	T!CCGGA	1	1312
Bsp19I	C!CATGG	3	360; 2466; 3169
Bsp24I	GACNNNNNNTGGNNNNNNNNNN!	2	289; 3540
Bsp24I	!NNNNNNNCCANNNNNNNGTC	2	3961; 4139
Bsp24I	CCANNNNNNGTCCNNNNNNNNNNNN!	2	3993; 4171
Bsp24I	!NNNNNNNNGACNNNNNNNTGG	2	257; 3508
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1339; 3419
Bsp120I	G!GGCCC	1	1365
Bsp143I	!GATC	25	585; 623; 737; 971; 1147; 1321; 1372; 1381; 1394; 2574; 2578; 2597; 2908; 2986; 3067; 3076; 3154; 3530; 3546; 3905; 3917; 3995; 4003; 4014; 4089
Bsp1286I	GDGCH!C	14	664; 691; 724; 1301; 1332; 1369; 1928; 2683; 2776; 2850; 3040; 3102; 3812; 4345
Bsp1407I	T!GTACA	1	650
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	35	58; 86; 98; 112; 279; 507; 589; 920; 1058; 1160; 1361; 2052; 2055; 2069; 2159; 2407; 2419; 2428; 2440; 2450; 2461; 2507; 2646; 2709; 3211; 3256; 3322; 3348; 3473; 3476; 3624; 3756; 4063; 4207; 4703
BspACI	G!CGG	28	370; 403; 528; 755; 1025; 1067; 1109; 1363; 1997; 2024; 2112; 2222; 2803; 2867; 2968; 2971; 3251; 3306; 3404; 3542; 3689; 3829; 4072; 4317; 4438; 4457; 4584; 4612
BspCNI	CTCAGNNNNNNNNNN!	2	1331; 3862
BspCNI	!NNNNNNNCTGAG	7	858; 1064; 2209; 2511; 3392; 3964; 4373
BspDI	AT!CGAT	1	2577
BspD6I	GACTCNNNN!	5	418; 1324; 1810; 3416; 4293
BspD6I	!NNNNNNNGAGTC	2	1773; 2205
BspEI	T!CCGGA	1	1312
BspFNI	CG!CG	17	60; 1025; 1363; 1625; 1661; 2037; 2057; 2081; 2112; 2803; 3104; 3542; 3626; 3689; 3758; 4031; 4612
BspHI	T!CATGA	2	2163; 3935
BspLI	GGN!NCC	19	467; 663; 723; 1359; 1367; 1374; 1892; 1913; 1925; 2116; 2277; 2349; 2738; 2773; 3621; 3700; 3745; 4588; 4627
BspMI	ACCTGCNNNN!	3	1127; 3005; 3455
BspMI	!NNNNNNNNGCAGGT	1	2624
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	1380; 1389; 2605; 2916; 3162; 3554; 3913; 4011; 4097
BspPI	!NNNNNGATCC	7	580; 1142; 1367; 2981; 3525; 3912; 4009
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3081; 3291
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1339; 3419
BspT107I	G!GYRCC	7	465; 661; 721; 1357; 1890; 2736; 2771
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1228; 3726
BsrI	ACTGGN!	5	1211; 1298; 2681; 2882; 4128
BsrI	C!CAGT	5	295; 1766; 2444; 4240; 4253
BsrBI	CCG!CTC	2	2161; 3350
BsrBI	GAG!CGG	2	1997; 3404
BsrDI	GCAATGNN!	1	2970
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	5	600; 1954; 3056; 3237; 3520
BsrGI	T!GTACA	1	650
BsrSI	ACTGGN!	5	1211; 1298; 2681; 2882; 4128
BsrSI	C!CAGT	5	295; 1766; 2444; 4240; 4253

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssAI	R!CCGGY	5	600; 1954; 3056; 3237; 3520
BssECI	C!CNNGG	21	360; 695; 830; 831; 926; 1361; 1368; 2271; 2343; 2466; 2501; 2510; 2559; 2900; 3169; 3574; 3701; 3702; 3804; 3805; 4495
BssHII	G!CGCGC	0	
BssKI	!CCNGG	21	88; 281; 782; 830; 926; 1179; 1367; 1368; 2271; 2326; 2343; 2739; 2899; 3122; 3512; 3701; 3804; 4276; 4494; 4507; 4628
BssMI	!GATC	25	585; 623; 737; 971; 1147; 1321; 1372; 1381; 1394; 2574; 2578; 2597; 2908; 2986; 3067; 3076; 3154; 3530; 3546; 3905; 3917; 3995; 4003; 4014; 4089
BssNI	GR!CGYC	7	122; 175; 258; 444; 2737; 3439; 3518
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1252; 3455; 4482
BssSI	C!TCGTG	2	1102; 3329
BssTII	C!CWWGG	5	360; 2466; 2559; 3169; 3574
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2204; 3081; 3291
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	7	122; 175; 258; 444; 2737; 3439; 3518
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	3	2304; 2376; 3838
BstAUI	T!GTACA	1	650
BstBI	TT!CGAA	2	1339; 3419
Bst2BI	C!ACGAG	3	1252; 3455; 4482
Bst2BI	C!TCGTG	2	1102; 3329
BstBAI	YAC!GTR	3	340; 1853; 3041
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 666; 1357; 1828; 3117; 3233; 3341; 3664; 4155; 4625; 4696
BstC8I	GCN!NGC	32	86; 279; 593; 619; 709; 913; 1365; 1956; 1999; 2013; 2286; 2305; 2358; 2377; 2631; 2817; 3036; 3102; 3108; 3136; 3140; 3181; 3185; 3239; 3522; 3709; 3756; 3812; 3834; 4045; 4605; 4642
BstDEI	C!TNAG	10	866; 1072; 1163; 1318; 2217; 2519; 3400; 3849; 3972; 4381
BstDSI	C!CRYGG	4	360; 1361; 2466; 3169
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2597; 3054; 3079; 3533
BstF5I	!CATCC	5	691; 779; 836; 991; 2423
BstFNI	CG!CG	17	60; 1025; 1363; 1625; 1661; 2037; 2057; 2081; 2112; 2803; 3104; 3542; 3626; 3689; 3758; 4031; 4612
BstH2I	RGCGC!Y	5	598; 2004; 2012; 2740; 4415
BstHHI	GCG!C	21	597; 2003; 2011; 2037; 2059; 2068; 2081; 2112; 2731; 2739; 2803; 2840; 3106; 3366; 3542; 3628; 4031; 4140; 4314; 4414; 4481
BstKTI	GAT!C	25	588; 626; 740; 974; 1150; 1324; 1375; 1384; 1397; 2577; 2581; 2600; 2911; 2989; 3070; 3079; 3157; 3533; 3549; 3908; 3920; 3998; 4006; 4017; 4092
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	5	1228; 2161; 2579; 3598; 3726
BstMBI	!GATC	25	585; 623; 737; 971; 1147; 1321; 1372; 1381; 1394; 2574; 2578; 2597; 2908; 2986; 3067; 3076; 3154; 3530; 3546; 3905; 3917; 3995; 4003; 4014; 4089
BstMCI	CGRY!CG	3	605; 2646; 4321
BstMWI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 645; 1076; 1964; 1994; 2021; 2063; 2304; 2376; 2427; 2506; 2728; 2812; 2835; 2974; 3097; 3180; 3447; 3634; 3838; 4037; 4609
BstNI	CC!WGG	14	90; 283; 784; 832; 928; 2273; 2328; 2345; 3124; 3703; 3806; 4496; 4509; 4630
BstNSI	RCATG!Y	5	639; 2307; 2379; 3142; 4659
BstOI	CC!WGG	14	90; 283; 784; 832; 928; 2273; 2328; 2345; 3124; 3703; 3806; 4496; 4509; 4630
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1240
BstSCI	!CCNGG	21	88; 281; 782; 830; 926; 1179; 1367; 1368; 2271; 2326; 2343; 2739; 2899; 3122; 3512; 3701; 3804; 4276; 4494; 4507; 4628
BstSFI	C!TRYAG	4	1346; 2072; 4199; 4390
BstSLI	GKGC!C	8	664; 691; 724; 1301; 1369; 2683; 2776; 4345

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	17	60; 1025; 1363; 1625; 1661; 2037; 2057; 2081; 2112; 2803; 3104; 3542; 3626; 3689; 3758; 4031; 4612
Bst2UI	CC!WGG	14	90; 283; 784; 832; 928; 2273; 2328; 2345; 3124; 3703; 3806; 4496; 4509; 4630
BstV1I	GCAGCNNNNNNNN!	8	818; 1260; 1525; 2810; 2852; 3373; 3826; 4326
BstV1I	!NNNNNNNNNNNGCTGC	7	937; 2019; 2684; 2868; 2961; 4027; 4233
BstV2I	GAAGACNN!	1	908
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	12	585; 1147; 1321; 1372; 1381; 2908; 3154; 3546; 3905; 3917; 4003; 4014
BstYI	R!GATCY	12	585; 1147; 1321; 1372; 1381; 2908; 3154; 3546; 3905; 3917; 4003; 4014
BstZI	C!GGCCG	1	2643
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2166; 2956; 4457
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2577
Bsu36I	CC!TNAGG	3	866; 2217; 3849
BsuRI	GG!CC	28	84; 277; 758; 1001; 1036; 1070; 1079; 1093; 1225; 1267; 1367; 1703; 1845; 2500; 2506; 2515; 2558; 2645; 2819; 3210; 3237; 3746; 3803; 3836; 4181; 4615; 4633; 4644
BsuTUI	AT!CGAT	1	2577
BtgI	C!CRYGG	4	360; 1361; 2466; 3169
BtgZI	GCGATGNNNNNNNNNN!	2	1854; 3189
BtgZI	!NNNNNNNNNNNNNNNCATCGC	3	334; 3008; 3352
BthCI	GCNG!C	34	758; 809; 953; 1028; 1070; 1251; 1516; 2035; 2057; 2071; 2509; 2648; 2700; 2711; 2801; 2806; 2843; 2884; 2971; 2974; 2977; 3213; 3309; 3350; 3364; 3478; 3817; 3832; 4043; 4249; 4252; 4317; 4460; 4615
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	1122; 1576
BtsCI	GGATGNN!	4	2597; 3054; 3079; 3533
BtsCI	!CATCC	5	691; 779; 836; 991; 2423
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	1127; 3005; 3455
BveI	!NNNNNNNNNGCAGGT	1	2624
Cac8I	GCN!NGC	32	86; 279; 593; 619; 709; 913; 1365; 1956; 1999; 2013; 2286; 2305; 2358; 2377; 2631; 2817; 3036; 3102; 3108; 3136; 3140; 3181; 3185; 3239; 3522; 3709; 3756; 3812; 3834; 4045; 4605; 4642
CaiI	CAGNNN!CTG	2	3838; 4246
CciI	T!CATGA	2	2163; 3935
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	352; 3026; 3031; 3229; 3370
CdiI	C!GATG	2	1840; 3175
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	4609
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2398; 2440
CelII	GC!TNAGC	0	
CfoI	GCG!C	21	597; 2003; 2011; 2037; 2059; 2068; 2081; 2112; 2731; 2739; 2803; 2840; 3106; 3366; 3542; 3628; 4031; 4140; 4314; 4414; 4481
CfrI	Y!GGCCR	5	1265; 2643; 2817; 3208; 3235
Cfr9I	C!CCGGG	1	1368
Cfr10I	R!CCGGY	5	600; 1954; 3056; 3237; 3520
Cfr13I	G!GNCC	13	83; 276; 757; 1000; 1092; 1197; 1366; 1844; 3253; 3698; 3744; 3802; 3835
Cfr42I	CCGC!GG	1	1364
ChaI	GATC!	25	589; 627; 741; 975; 1151; 1325; 1376; 1385; 1398; 2578; 2582; 2601; 2912; 2990; 3071; 3080; 3158; 3534; 3550; 3909; 3921; 3999; 4007; 4018; 4093
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	5	703; 2554; 3994; 4094; 4172
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2221; 2316; 3508; 4058; 4613
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2255; 2350; 3542; 4092; 4647

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjeI	!NNNNNNNNCCANNNNNNNGT	5	669; 2520; 3960; 4060; 4138
CjePI	CCANNNNNNNTCANNNNNNNNNNNN!	2	3994; 4172
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 3508; 4107
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	3	290; 3541; 4140
CjePI	!NNNNNNNNCCANNNNNNNTC	2	3961; 4139
Clal	AT!CGAT	1	2577
CpoI	CG!GWCCG	1	3253
CseI	GACGCNNNNN!	3	526; 3447; 3526
CseI	!NNNNNNNNNNGCGTC	3	2070; 3965; 4543
CsiI	A!CCWGGT	1	2326
Cspi	CG!GWCCG	1	3253
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 651; 801; 1053; 1272; 1358; 3042
Csp45I	TT!CGAA	2	1339; 3419
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	4	653; 1244; 2017; 3626
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	1	1109
CviAII	C!ATG	22	301; 361; 612; 636; 642; 654; 732; 798; 878; 2164; 2304; 2376; 2467; 2608; 2953; 3139; 3170; 3196; 3552; 3936; 4656; 4707
CviJI	RG!CY	97	42; 84; 93; 277; 566; 621; 648; 711; 758; 787; 794; 814; 872; 938; 950; 1001; 1028; 1036; 1070; 1079; 1085; 1093; 1101; 1115; 1184; 1225; 1261; 1267; 1330; 1336; 1367; 1406; 1516; 1683; 1703; 1845; 1926; 1940; 1954; 2235; 2276; 2348; 2471; 2500; 2506; 2515; 2523; 2546; 2558; 2564; 2645; 2662; 2670; 2697; 2722; 2806; 2815; 2819; 2843; 2881; 2957; 2974; 2993; 3056; 3100; 3110; 3127; 3210; 3237; 3241; 3278; 3301; 3317; 3497; 3524; 3585; 3707; 3746; 3803; 3810; 3817; 3836; 3847; 4098; 4127; 4170; 4181; 4246; 4325; 4350; 4355; 4401; 4491; 4589; 4615; 4633; 4644
CviKI-1	RG!CY	97	42; 84; 93; 277; 566; 621; 648; 711; 758; 787; 794; 814; 872; 938; 950; 1001; 1028; 1036; 1070; 1079; 1085; 1093; 1101; 1115; 1184; 1225; 1261; 1267; 1330; 1336; 1367; 1406; 1516; 1683; 1703; 1845; 1926; 1940; 1954; 2235; 2276; 2348; 2471; 2500; 2506; 2515; 2523; 2546; 2558; 2564; 2645; 2662; 2670; 2697; 2722; 2806; 2815; 2819; 2843; 2881; 2957; 2974; 2993; 3056; 3100; 3110; 3127; 3210; 3237; 3241; 3278; 3301; 3317; 3497; 3524; 3585; 3707; 3746; 3803; 3810; 3817; 3836; 3847; 4098; 4127; 4170; 4181; 4246; 4325; 4350; 4355; 4401; 4491; 4589; 4615; 4633; 4644
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 651; 801; 1053; 1272; 1358; 3042
DdeI	C!TNAG	10	866; 1072; 1163; 1318; 2217; 2519; 3400; 3849; 3972; 4381
DinI	GGC!GCC	1	2738
DpnI	GA!TC	25	587; 625; 739; 973; 1149; 1323; 1374; 1383; 1396; 2576; 2580; 2599; 2910; 2988; 3069; 3078; 3156; 3532; 3548; 3907; 3919; 3997; 4005; 4016; 4091
DpnII	!GATC	25	585; 623; 737; 971; 1147; 1321; 1372; 1381; 1394; 2574; 2578; 2597; 2908; 2986; 3067; 3076; 3154; 3530; 3546; 3905; 3917; 3995; 4003; 4014; 4089
DraI	TTT!AAA	3	1439; 3881; 3900
DraII	RG!GNCCY	1	3835
DraIII	CACNNN!GTG	2	1194; 1853
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	3	266; 1295; 4217
DraRI	!NNNNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	1808; 2764; 4553
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1808; 2764; 4553
EaeI	Y!GGCCR	5	1265; 2643; 2817; 3208; 3235
EagI	C!GGCCG	1	2643
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2204; 3081; 3291

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	3	2204; 3081; 3291
EciI	GGCGGANNNNNNNNNN!	4	2237; 3266; 4453; 4599
EciI	!NNNNNNNNNTCCGCC	4	496; 2408; 2429; 2450
Ecl136II	GAG!CTC	1	1330
EclXI	C!GGCCG	1	2643
Eco24I	GRGCY!C	5	1332; 1369; 1928; 3102; 3812
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1228; 3726
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	1197; 3253; 3698
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	2643
Eco57I	CTGAAGNNNNNNNNNNNNNN!	3	1117; 2883; 3315
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4113
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	866; 2217; 3849
Eco88I	C!YCGRG	2	1325; 1368
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	5	360; 2466; 2559; 3169; 3574
Eco147I	AGG!CCT	1	2558
EcoHI	!CCSGG	7	1179; 1367; 1368; 2739; 2899; 3512; 4276
EcoICRI	GAG!CTC	1	1330
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	4	1117; 2883; 3315; 3577
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	2	3520; 4113
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	3835
EcoRI	G!AATTC	1	1341
EcoRII	!CCWGG	14	88; 281; 782; 830; 926; 2271; 2326; 2343; 3122; 3701; 3804; 4494; 4507; 4628
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	360; 2466; 2559; 3169; 3574
EcoT22I	ATGCA!T	3	2309; 2381; 4712
EcoT38I	GRGCY!C	5	1332; 1369; 1928; 3102; 3812
Eco53kl	GAG!CTC	1	1330
EgeI	GGC!GCC	1	2738
EheI	GGC!GCC	1	2738
ErhI	C!CWWGG	5	360; 2466; 2559; 3169; 3574
EsaBC3I	TC!GA	17	750; 777; 1245; 1327; 1340; 1353; 1887; 2578; 2851; 3007; 3031; 3067; 3229; 3420; 3465; 3720; 4558
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	22	304; 364; 615; 639; 645; 657; 735; 801; 881; 2167; 2307; 2379; 2470; 2611; 2956; 3142; 3173; 3199; 3555; 3939; 4659; 4710
Fail	YA!TR	60	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 637; 643; 655; 733; 799; 879; 897; 1143; 1399; 1409; 1475; 1520; 1725; 2153; 2165; 2296; 2305; 2368; 2377; 2401; 2468; 2492; 2609; 2673; 2954; 2979; 3140; 3171; 3197; 3269; 3485; 3553; 3631; 3683; 3844; 3861; 3863; 3865; 3937; 4215; 4404; 4520; 4593; 4657; 4708
FalI	AAGNNNNCTTNNNNNNNNNNNN!	2	876; 3077
FalI	!NNNNNNNNAAGNNNNNNCTT	2	844; 3045
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2888; 3420; 3529
FaqI	!NNNNNNNNNNNNNGTCCC	4	2253; 2325; 2389; 3684
FatI	!CATG	22	300; 360; 611; 635; 641; 653; 731; 797; 877; 2163; 2303; 2375; 2466; 2607; 2952; 3138; 3169; 3195; 3551; 3935; 4655; 4706
FauI	CCCGCNNNN!	10	93; 119; 286; 1065; 1167; 2059; 2414; 2435; 3631; 3763
FauI	!NNNNNNNGCGGG	7	1102; 1356; 1990; 2860; 3397; 3535; 3682
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	2	623; 1394
FblI	GT!MKAC	1	1352

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FmuI	GGNC!C	13	86; 279; 760; 1003; 1095; 1200; 1369; 1847; 3256; 3701; 3747; 3805; 3838
Fnu4HI	GC!NGC	34	756; 807; 951; 1026; 1068; 1249; 1514; 2033; 2055; 2069; 2507; 2646; 2698; 2709; 2799; 2804; 2841; 2882; 2969; 2972; 2975; 3211; 3307; 3348; 3362; 3476; 3815; 3830; 4041; 4247; 4250; 4315; 4458; 4613
FokI	GGATGNNNNNNNNN!	4	2604; 3061; 3086; 3540
FokI	!NNNNNNNNNNNNNNCATCC	5	678; 766; 823; 978; 2410
FriOI	GRGCY!C	5	1332; 1369; 1928; 3102; 3812
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2839
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1286; 1385; 1586; 2004; 2560; 3575; 3909; 4162
FspEI	CCNNNNNNNNNNNN!	156	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 678; 708; 725; 739; 772; 786; 804; 828; 843; 873; 906; 933; 948; 1003; 1050; 1069; 1084; 1099; 1132; 1152; 1172; 1193; 1213; 1239; 1281; 1297; 1326; 1374; 1389; 1420; 1459; 1473; 1614; 1709; 1733; 1756; 1779; 1797; 1819; 1840; 1859; 1878; 1907; 1928; 1942; 1968; 2056; 2082; 2131; 2172; 2190; 2229; 2245; 2283; 2340; 2355; 2412; 2432; 2446; 2463; 2477; 2514; 2529; 2572; 2655; 2722; 2753; 2773; 2788; 2833; 2847; 2913; 2927; 2946; 2962; 3003; 3023; 3070; 3120; 3136; 3156; 3181; 3201; 3224; 3251; 3269; 3295; 3335; 3361; 3385; 3441; 3455; 3483; 3526; 3547; 3582; 3626; 3714; 3738; 3760; 3780; 3796; 3817; 3831; 3850; 3934; 3954; 3982; 3997; 4031; 4073; 4100; 4115; 4160; 4184; 4198; 4220; 4246; 4266; 4290; 4316; 4364; 4383; 4402; 4428; 4463; 4508; 4538; 4552; 4603; 4617; 4642; 4658; 4679; 4708
FspEI	!NNNNNNNNNNNNNNNGG	128	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 613; 640; 682; 703; 727; 769; 788; 817; 853; 890; 913; 932; 962; 983; 1010; 1049; 1075; 1094; 1166; 1192; 1243; 1279; 1298; 1340; 1364; 1408; 1508; 1577; 1685; 1734; 1756; 1784; 1820; 1865; 1894; 1930; 1949; 1977; 1997; 2060; 2083; 2191; 2223; 2241; 2270; 2313; 2342; 2453; 2482; 2525; 2546; 2574; 2607; 2627; 2652; 2679; 2704; 2726; 2754; 2780; 2801; 2852; 2873; 2891; 2939; 2975; 3031; 3056; 3080; 3109; 3132; 3156; 3182; 3204; 3223; 3248; 3288; 3324; 3389; 3474; 3498; 3527; 3561; 3582; 3602; 3647; 3674; 3693; 3726; 3778; 3809; 3836; 3888; 3986; 4057; 4102; 4163; 4228; 4262; 4288; 4306; 4342; 4412; 4435; 4457; 4481; 4514; 4562; 4597; 4615; 4672
Fsp4HI	GC!NGC	34	756; 807; 951; 1026; 1068; 1249; 1514; 2033; 2055; 2069; 2507; 2646; 2698; 2709; 2799; 2804; 2841; 2882; 2969; 2972; 2975; 3211; 3307; 3348; 3362; 3476; 3815; 3830; 4041; 4247; 4250; 4315; 4458; 4613
GdiII	C!GGCCR	1	2643
GdiII	Y!GGCCG	3	2643; 3208; 3235
GlaI	GC!GC	21	596; 2002; 2010; 2036; 2058; 2067; 2080; 2111; 2730; 2738; 2802; 2839; 3105; 3365; 3541; 3627; 4030; 4139; 4313; 4413; 4480
GluI	GC!NGC	34	756; 807; 951; 1026; 1068; 1249; 1514; 2033; 2055; 2069; 2507; 2646; 2698; 2709; 2799; 2804; 2841; 2882; 2969; 2972; 2975; 3211; 3307; 3348; 3362; 3476; 3815; 3830; 4041; 4247; 4250; 4315; 4458; 4613
GsaI	CCCAG!C	3	2284; 2356; 4355
GsaI	GCTGG!G	2	1032; 3245
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3577
GsuI	!NNNNNNNNNNNNNNNCTCCAG	1	3520
HaeI	WGG!CCW	8	1036; 1079; 1267; 2558; 2819; 4181; 4633; 4644
HaeII	RGCG!Y	5	598; 2004; 2012; 2740; 4415
HaeIII	GG!CC	28	84; 277; 758; 1001; 1036; 1070; 1079; 1093; 1225; 1267; 1367; 1703; 1845; 2500; 2506; 2515; 2558; 2645; 2819; 3210; 3237; 3746; 3803; 3836; 4181; 4615; 4633; 4644
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1412; 2933
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1378; 2899
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1411; 2932
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1380; 2901
HapII	C!CGG	21	601; 1181; 1313; 1369; 1379; 1955; 2642; 2719; 2741; 2769; 2900; 2990; 3057; 3238; 3513; 3521; 3613; 4087; 4277; 4303; 4450

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HgaI	GACGCNNNNN!	3	526; 3447; 3526
HgaI	!NNNNNNNNNNNGCGTC	3	2070; 3965; 4543
HhaI	GCG!C	21	597; 2003; 2011; 2037; 2059; 2068; 2081; 2112; 2731; 2739; 2803; 2840; 3106; 3366; 3542; 3628; 4031; 4140; 4314; 4414; 4481
HinI	GR!CGYC	7	122; 175; 258; 444; 2737; 3439; 3518
HinIII	CATG!	22	304; 364; 615; 639; 645; 657; 735; 801; 881; 2167; 2307; 2379; 2470; 2611; 2956; 3142; 3173; 3199; 3555; 3939; 4659; 4710
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1411; 2932
Hin4I	!NNNNNNNNNGABNNNNNNRTC	3	1379; 2900; 2930
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1411; 2932; 2962
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	1379; 2900
Hin6I	G!CGC	21	595; 2001; 2009; 2035; 2057; 2066; 2079; 2110; 2729; 2737; 2801; 2838; 3104; 3364; 3540; 3626; 4029; 4138; 4312; 4412; 4479
HinPII	G!CGC	21	595; 2001; 2009; 2035; 2057; 2066; 2079; 2110; 2729; 2737; 2801; 2838; 3104; 3364; 3540; 3626; 4029; 4138; 4312; 4412; 4479
HincII	GTY!RAC	2	1353; 1500
HindII	GTY!RAC	2	1353; 1500
HindIII	A!AGCTT	1	1334
HinfI	G!ANTC	15	410; 887; 1214; 1309; 1316; 1780; 1802; 2212; 3222; 3356; 3408; 3466; 3503; 4285; 4681
HpaI	GTT!AAC	1	1500
HpaII	C!CGG	21	601; 1181; 1313; 1369; 1379; 1955; 2642; 2719; 2741; 2769; 2900; 2990; 3057; 3238; 3513; 3521; 3613; 4087; 4277; 4303; 4450
HphI	GGTGANNNNNNN!	4	376; 993; 3808; 3924
HphI	!NNNNNNNTCACC	3	882; 1854; 2915
Hpy8I	GTN!NAC	13	201; 539; 577; 669; 689; 984; 1197; 1353; 1500; 1784; 1801; 1856; 4343
Hpy99I	CGWCG!	9	1246; 1357; 2827; 2855; 3149; 3164; 3441; 3826; 4559
Hpy166II	GTN!NAC	13	201; 539; 577; 669; 689; 984; 1197; 1353; 1500; 1784; 1801; 1856; 4343
Hpy188I	TCN!GA	13	585; 696; 1321; 1911; 2520; 2704; 3048; 3401; 3502; 3981; 4115; 4468; 4546
Hpy188III	TC!NNGA	26	942; 969; 1134; 1173; 1313; 1325; 1385; 2164; 2216; 2529; 2582; 2755; 3071; 3080; 3163; 3219; 3263; 3353; 3386; 3455; 3936; 4010; 4093; 4191; 4289; 4423
HpyAV	CCTTCNNNNNN!	7	777; 825; 870; 1140; 3382; 3489; 4168
HpyAV	!NNNNNGAAGG	8	697; 1970; 2865; 3594; 3610; 3793; 4110; 4420
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 666; 1357; 1828; 3117; 3233; 3341; 3664; 4155; 4625; 4696
HpyCH4IV	A!CGT	16	122; 134; 175; 258; 339; 444; 965; 1241; 1797; 1809; 1852; 1962; 2853; 3040; 3821; 3954
HpyCH4V	TG!CA	22	639; 689; 953; 1011; 1122; 1348; 1486; 1513; 1581; 2298; 2307; 2370; 2379; 2494; 2570; 2629; 2788; 2963; 2977; 4047; 4343; 4710
HpyF3I	C!TNAG	10	866; 1072; 1163; 1318; 2217; 2519; 3400; 3849; 3972; 4381
HpyF10VI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 645; 1076; 1964; 1994; 2021; 2063; 2304; 2376; 2427; 2506; 2728; 2812; 2835; 2974; 3097; 3180; 3447; 3634; 3838; 4037; 4609
Hsp92I	GR!CGYC	7	122; 175; 258; 444; 2737; 3439; 3518
Hsp92II	CATG!	22	304; 364; 615; 639; 645; 657; 735; 801; 881; 2167; 2307; 2379; 2470; 2611; 2956; 3142; 3173; 3199; 3555; 3939; 4659; 4710
HspAI	G!CGC	21	595; 2001; 2009; 2035; 2057; 2066; 2079; 2110; 2729; 2737; 2801; 2838; 3104; 3364; 3540; 3626; 4029; 4138; 4312; 4412; 4479
KasI	G!GCGCC	1	2736
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	1361
Kpn2I	T!CCGGA	1	1312
KspI	CCGC!GG	1	1364
Ksp22I	T!GATCA	2	623; 1394
KspAI	GTT!AAC	1	1500

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kzo9I	!GATC	25	585; 623; 737; 971; 1147; 1321; 1372; 1381; 1394; 2574; 2578; 2597; 2908; 2986; 3067; 3076; 3154; 3530; 3546; 3905; 3917; 3995; 4003; 4014; 4089
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3081; 3291
LpnI	RGCI GCY	5	596; 2002; 2010; 2738; 4413
LpnPI	CCDGNNNNNNNNNN!	60	102; 295; 614; 739; 796; 844; 878; 940; 955; 1016; 1084; 1099; 1132; 1194; 1326; 1382; 1474; 1779; 1968; 2191; 2229; 2245; 2285; 2340; 2357; 2457; 2542; 2655; 2732; 2754; 2777; 2913; 2927; 2946; 3003; 3070; 3120; 3136; 3193; 3251; 3460; 3526; 3550; 3626; 3715; 3818; 3851; 4082; 4100; 4246; 4266; 4290; 4316; 4365; 4463; 4508; 4538; 4617; 4642; 4679
LpnPI	!NNNNNNNNNNNNNCHGG	54	75; 268; 552; 586; 769; 817; 913; 1014; 1166; 1192; 1279; 1298; 1354; 1820; 1940; 1997; 2060; 2258; 2270; 2330; 2342; 2574; 2619; 2662; 2704; 2726; 2754; 2801; 2863; 2885; 2975; 3042; 3065; 3109; 3204; 3223; 3248; 3397; 3498; 3541; 3598; 3688; 3791; 3818; 3836; 4072; 4109; 4262; 4288; 4428; 4446; 4481; 4562; 4615
Lsp1109I	GCAGCNNNNNNNN!	8	818; 1260; 1525; 2810; 2852; 3373; 3826; 4326
Lsp1109I	!NNNNNNNNNNNGCTGC	7	937; 2019; 2684; 2868; 2961; 4027; 4233
LweI	GCATCNNNNN!	8	845; 962; 1553; 2316; 2388; 3036; 3100; 3375
LweI	!NNNNNNNNNGATGC	8	357; 998; 1037; 1166; 2695; 2950; 3166; 4558
MabI	A!CCWGGT	1	2326
MaeI	C!TAG	9	592; 1286; 1385; 1586; 2004; 2560; 3575; 3909; 4162
MaeII	A!CGT	16	122; 134; 175; 258; 339; 444; 965; 1241; 1797; 1809; 1852; 1962; 2853; 3040; 3821; 3954
MaeIII	!GTNAC	12	61; 148; 497; 1525; 2026; 2038; 2857; 3163; 3853; 4119; 4235; 4298
MalI	GA!TC	25	587; 625; 739; 973; 1149; 1323; 1374; 1383; 1396; 2576; 2580; 2599; 2910; 2988; 3069; 3078; 3156; 3532; 3548; 3907; 3919; 3997; 4005; 4016; 4091
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGG	0	
MbiI	CCG!CTC	2	2161; 3350
MbiI	GAG!CGG	2	1997; 3404
MboI	!GATC	25	585; 623; 737; 971; 1147; 1321; 1372; 1381; 1394; 2574; 2578; 2597; 2908; 2986; 3067; 3076; 3154; 3530; 3546; 3905; 3917; 3995; 4003; 4014; 4089
MboII	GAAGANNNNNNNN!	8	747; 913; 1026; 1993; 2221; 3098; 3308; 3927
MboII	!NNNNNNNTCTTC	4	3388; 3555; 3755; 3998
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1487
MfII	R!GATCY	12	585; 1147; 1321; 1372; 1381; 2908; 3154; 3546; 3905; 3917; 4003; 4014
MhII	GDGCH!C	14	664; 691; 724; 1301; 1332; 1369; 1928; 2683; 2776; 2850; 3040; 3102; 3812; 4345
MisI	TGG!CCA	2	1267; 2819
MluI	A!CGCGT	1	1623
MluNI	TGG!CCA	2	1267; 2819
MlyI	GAGTCNNNNN!	2	1789; 2221
MlyI	!NNNNNGACTC	5	404; 1310; 1796; 3402; 4279
Mly113I	GG!CGCC	1	2737
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1019; 1830
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	4262; 4446
MniI	CCTCNNNNNNN!	10	770; 1180; 1291; 1456; 2520; 3338; 3544; 3858; 4228; 4552
MniI	!NNNNNGAGG	21	541; 651; 690; 711; 744; 861; 1026; 1069; 1215; 1416; 1881; 2212; 2490; 2533; 2548; 2588; 2652; 2788; 3145; 3575; 4478
Mph1103I	ATGCA!T	3	2309; 2381; 4712
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1312
MroNI	G!CCGGC	3	1954; 3237; 3520
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	2	1267; 2819
MseI	T!TAA	16	7; 851; 1438; 1499; 1620; 1641; 1652; 1664; 1675; 1692; 1790; 2061; 3880; 3894; 3899; 3951
MslI	CAYNN!NNRTG	5	365; 640; 1045; 1304; 3174

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspI	C!CGG	21	601; 1181; 1313; 1369; 1379; 1955; 2642; 2719; 2741; 2769; 2900; 2990; 3057; 3238; 3513; 3521; 3613; 4087; 4277; 4303; 4450
Msp20I	TGG!CCA	2	1267; 2819
MspA1I	CMG!CKG	6	1060; 1363; 2235; 2843; 4072; 4317
MspCI	C!TTAAG	0	
MspJI	CNNRNNNNNNNNNN!	239	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; 630; 648; 666; 696; 714; 729; 744; 762; 795; 810; 838; 853; 877; 890; 906; 924; 938; 954; 981; 1002; 1015; 1034; 1049; 1069; 1083; 1098; 1114; 1131; 1146; 1163; 1183; 1206; 1219; 1238; 1257; 1280; 1297; 1312; 1325; 1339; 1352; 1374; 1391; 1405; 1420; 1444; 1461; 1474; 1515; 1529; 1542; 1560; 1598; 1613; 1631; 1672; 1696; 1716; 1734; 1755; 1778; 1810; 1825; 1847; 1865; 1878; 1899; 1916; 1929; 1942; 1958; 1971; 2001; 2016; 2041; 2059; 2072; 2087; 2111; 2125; 2149; 2174; 2190; 2228; 2244; 2283; 2297; 2311; 2339; 2355; 2369; 2383; 2412; 2425; 2446; 2455; 2477; 2507; 2523; 2541; 2571; 2594; 2618; 2642; 2661; 2689; 2715; 2731; 2744; 2767; 2781; 2801; 2814; 2828; 2847; 2861; 2874; 2890; 2905; 2918; 2934; 2949; 2965; 2990; 3009; 3025; 3038; 3051; 3069; 3083; 3097; 3113; 3135; 3151; 3170; 3192; 3208; 3231; 3250; 3264; 3280; 3294; 3314; 3330; 3343; 3365; 3398; 3412; 3432; 3445; 3459; 3513; 3526; 3549; 3562; 3581; 3598; 3625; 3661; 3694; 3713; 3738; 3759; 3786; 3799; 3816; 3830; 3845; 3861; 3921; 3946; 3962; 3984; 3997; 4011; 4042; 4056; 4081; 4099; 4114; 4127; 4146; 4159; 4174; 4203; 4222; 4240; 4265; 4280; 4299; 4315; 4334; 4352; 4368; 4382; 4401; 4428; 4451; 4473; 4492; 4507; 4520; 4537; 4557; 4584; 4597; 4616; 4641; 4664; 4678; 4691; 4708
MspJI	!NNNNNNNNNNNNNYNG	196	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; 622; 640; 670; 694; 712; 736; 755; 777; 817; 838; 864; 884; 913; 955; 989; 1008; 1030; 1057; 1081; 1105; 1138; 1159; 1178; 1204; 1226; 1249; 1272; 1298; 1319; 1348; 1365; 1389; 1418; 1447; 1489; 1572; 1610; 1634; 1657; 1686; 1730; 1752; 1784; 1820; 1837; 1858; 1895; 1915; 1932; 1949; 1984; 2002; 2020; 2037; 2061; 2083; 2110; 2138; 2164; 2202; 2223; 2240; 2258; 2281; 2302; 2330; 2353; 2374; 2392; 2413; 2430; 2453; 2477; 2497; 2515; 2537; 2568; 2590; 2616; 2635; 2652; 2680; 2699; 2718; 2736; 2754; 2775; 2797; 2821; 2854; 2874; 2892; 2913; 2939; 2966; 2983; 3000; 3017; 3043; 3065; 3087; 3105; 3125; 3144; 3166; 3204; 3224; 3248; 3268; 3288; 3315; 3339; 3372; 3391; 3419; 3441; 3470; 3498; 3523; 3542; 3561; 3582; 3599; 3616; 3647; 3674; 3694; 3717; 3737; 3774; 3791; 3810; 3836; 3856; 3895; 3922; 3941; 3959; 3996; 4014; 4055; 4073; 4099; 4116; 4148; 4177; 4205; 4226; 4249; 4268; 4289; 4307; 4324; 4342; 4368; 4389; 4409; 4429; 4447; 4468; 4494; 4511; 4530; 4549; 4578; 4597; 4615; 4634; 4652; 4670; 4693
MspR9I	CC!NGG	21	90; 283; 784; 832; 928; 1181; 1369; 1370; 2273; 2328; 2345; 2741; 2901; 3124; 3514; 3703; 3806; 4278; 4496; 4509; 4630
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1487
MvaI	CC!WGG	14	90; 283; 784; 832; 928; 2273; 2328; 2345; 3124; 3703; 3806; 4496; 4509; 4630
Mva1269I	GAATGCN!	1	1488
Mva1269I	G!CATTC	1	1581
MvnI	CG!CG	17	60; 1025; 1363; 1625; 1661; 2037; 2057; 2081; 2112; 2803; 3104; 3542; 3626; 3689; 3758; 4031; 4612
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 645; 1076; 1964; 1994; 2021; 2063; 2304; 2376; 2427; 2506; 2728; 2812; 2835; 2974; 3097; 3180; 3447; 3634; 3838; 4037; 4609
NaeI	GCC!GGC	3	1956; 3239; 3522
NarI	GG!CGCC	1	2737
NciI	CC!SGG	7	1181; 1369; 1370; 2741; 2901; 3514; 4278
NcoI	C!CATGG	3	360; 2466; 3169
NdeI	CA!TATG	1	234
NdeII	!GATC	25	585; 623; 737; 971; 1147; 1321; 1372; 1381; 1394; 2574; 2578; 2597; 2908; 2986; 3067; 3076; 3154; 3530; 3546; 3905; 3917; 3995; 4003; 4014; 4089

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NgoAVIII	GACNNNNNTGANNNNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNNNTCANNNNNGTC	1	728
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNNNN!	1	764
NgoAVIII	!NNNNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	1954; 3237; 3520
NheI	G!CTAGC	1	591
NlaIII	CATG!	22	304; 364; 615; 639; 645; 657; 735; 801; 881; 2167; 2307; 2379; 2470; 2611; 2956; 3142; 3173; 3199; 3555; 3939; 4659; 4710
NlaIV	GGN!NCC	19	467; 663; 723; 1359; 1367; 1374; 1892; 1913; 1925; 2116; 2277; 2349; 2738; 2773; 3621; 3700; 3745; 4588; 4627
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1569; 1884; 3476
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 988; 4548
Nii3877I	CYCGR!G	2	1329; 1372
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2526; 2962
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2491
NmeDI	RCCGGYNNNNNN!	5	612; 1966; 3068; 3249; 3532
NmeDI	!NNNNNNNNNNNNRCCGGY	5	587; 1941; 3043; 3224; 3507
NmuCI	!GTSAC	3	2026; 2857; 3163
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2839
NsiI	ATGCA!T	3	2309; 2381; 4712
NspI	RCATG!Y	5	639; 2307; 2379; 3142; 4659
NspV	TT!CGAA	2	1339; 3419
OliI	CACNN!NNGTG	0	
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 653; 803; 1055; 1274; 1360; 3044
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2307; 2379; 3142
PaeR7I	C!TCGAG	1	1325
PagI	T!CATGA	2	2163; 3935
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	831; 3702; 3805
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2558
PciI	A!CATGT	1	4655
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3081; 3291
PcsI	WCGNNNN!NNNCGW	7	1250; 3031; 3108; 3351; 3425; 3818; 4336
PctI	GAATGCN!	1	1488
PctI	G!CATTG	1	1581
PdiI	GCC!GGC	3	1956; 3239; 3522
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	8	887; 1214; 1309; 3222; 3356; 3466; 3503; 4681
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2855
PfIMI	CCANNNN!NTGG	2	1194; 1206
PfoI	T!CCNGGA	1	3512
PhoI	GG!CC	28	84; 277; 758; 1001; 1036; 1070; 1079; 1093; 1225; 1267; 1367; 1703; 1845; 2500; 2506; 2515; 2558; 2645; 2819; 3210; 3237; 3746; 3803; 3836; 4181; 4615; 4633; 4644
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3118
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2683; 2938
PleI	GAGTCNNNN!	2	1788; 2220
PleI	!NNNNNGACTC	5	404; 1310; 1796; 3402; 4279
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNNCTCNNNNNNNNNNNN!	1	1819
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3949
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3981
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1787

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpsI	GAGTCNNNN!	2	1788; 2220
Ppsi	!NNNNNGACTC	5	404; 1310; 1796; 3402; 4279
Ppu10I	A!TGCAT	3	2305; 2377; 4708
Ppu21I	YAC!GTR	3	340; 1853; 3041
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4655
PshAI	GACNN!NNGTC	1	1240
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1520; 1725
Psp03I	GGWC!C	3	1200; 3256; 3701
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	14	88; 281; 782; 830; 926; 2271; 2326; 2343; 3122; 3701; 3804; 4494; 4507; 4628
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1332
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	14	88; 281; 782; 830; 926; 2271; 2326; 2343; 3122; 3701; 3804; 4494; 4507; 4628
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	19	467; 663; 723; 1359; 1367; 1374; 1892; 1913; 1925; 2116; 2277; 2349; 2738; 2773; 3621; 3700; 3745; 4588; 4627
PspOMI	G!GGCCC	1	1365
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 2467; 3466
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	1	2869
PspPI	G!GNCC	13	83; 276; 757; 1000; 1092; 1197; 1366; 1844; 3253; 3698; 3744; 3802; 3835
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	2290; 2362; 3868
PspPRI	!NNNNNNNNNNNNNNCTGRGG	4	852; 1280; 2203; 3398
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNTAC	0	
PssI	RGGNC!CY	1	3838
PstI	CTGCA!G	1	1350
PstNI	CAGNNN!CTG	2	3838; 4246
PsuI	R!GATCY	12	585; 1147; 1321; 1372; 1381; 2908; 3154; 3546; 3905; 3917; 4003; 4014
Psyl	GACN!NNGTC	1	2855
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2235; 2843
RcaI	T!CATGA	2	2163; 3935
RceI	CATCGACNNNNNNNNNNNNNNNN!	1	3252
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	1466
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 652; 802; 1054; 1273; 1359; 3043
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 651; 801; 1053; 1272; 1358; 3042
RseI	CAYNN!NNRTG	5	365; 640; 1045; 1304; 3174
RsrII	CG!GWCCG	1	3253
Rsr2I	CG!GWCCG	1	3253
SacI	GAGCT!C	1	1332
SacII	CCGC!GG	1	1364
SalI	G!TCGAC	1	1351

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	3081; 3291
SaqAI	T!TAA	16	7; 851; 1438; 1499; 1620; 1641; 1652; 1664; 1675; 1692; 1790; 2061; 3880; 3894; 3899; 3951
SatI	GC!NGC	34	756; 807; 951; 1026; 1068; 1249; 1514; 2033; 2055; 2069; 2507; 2646; 2698; 2709; 2799; 2804; 2841; 2882; 2969; 2972; 2975; 3211; 3307; 3348; 3362; 3476; 3815; 3830; 4041; 4247; 4250; 4315; 4458; 4613
Sau96I	G!GNCC	13	83; 276; 757; 1000; 1092; 1197; 1366; 1844; 3253; 3698; 3744; 3802; 3835
Sau3AI	!GATC	25	585; 623; 737; 971; 1147; 1321; 1372; 1381; 1394; 2574; 2578; 2597; 2908; 2986; 3067; 3076; 3154; 3530; 3546; 3905; 3917; 3995; 4003; 4014; 4089
Sbfi	CCTGCA!GG	0	
ScaI	AGT!ACT	1	1273
SchI	GAGTCNNNNN!	2	1789; 2221
SchI	!NNNNGACTC	5	404; 1310; 1796; 3402; 4279
SciI	CTC!GAG	1	1327
ScrFI	CC!NGG	21	90; 283; 784; 832; 928; 1181; 1369; 1370; 2273; 2328; 2345; 2741; 2901; 3124; 3514; 3703; 3806; 4278; 4496; 4509; 4630
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNN!	5	1038; 2315; 2387; 2556; 4498
SdeAI	!NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTYCTG	2	2892; 3377
SdeOSI	GACNNNNRTGANNNNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNNNRTGA	1	245
SduI	GDGCH!C	14	664; 691; 724; 1301; 1332; 1369; 1928; 2683; 2776; 2850; 3040; 3102; 3812; 4345
SelI	!CGCG	17	58; 1023; 1361; 1623; 1659; 2035; 2055; 2079; 2110; 2801; 3102; 3540; 3624; 3687; 3756; 4029; 4610
SetI	ASST!	63	125; 137; 178; 261; 308; 342; 447; 552; 568; 623; 650; 746; 796; 940; 968; 1103; 1121; 1172; 1240; 1244; 1283; 1332; 1338; 1427; 1448; 1457; 1469; 1518; 1685; 1800; 1812; 1855; 1892; 1942; 1965; 2089; 2237; 2332; 2525; 2638; 2766; 2845; 2856; 2928; 2999; 3043; 3303; 3449; 3493; 3824; 3855; 3914; 3957; 4100; 4121; 4220; 4357; 4372; 4391; 4403; 4447; 4493; 4544
SexAI	A!CCWGGT	1	2326
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	845; 962; 1553; 2316; 2388; 3036; 3100; 3375
SfaNI	!NNNNNNNNNNNGATGC	8	357; 998; 1037; 1166; 2695; 2950; 3166; 4558
Sfci	C!TRYAG	4	1346; 2072; 4199; 4390
SfiI	GGCCNNNN!NGGCC	2	1076; 2512
SfoI	GGC!GCC	1	2738
Sfr274I	C!TCGAG	1	1325
Sfr303I	CCGC!GG	1	1364
Sful	TT!CGAA	2	1339; 3419
SgeI	CNNGNNNNNNNNNN!	189	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 639; 654; 678; 696; 720; 738; 753; 795; 810; 843; 877; 890; 918; 939; 954; 981; 1015; 1034; 1056; 1069; 1083; 1098; 1114; 1131; 1146; 1164; 1185; 1206; 1219; 1257; 1281; 1298; 1325; 1339; 1374; 1391; 1444; 1473; 1515; 1598; 1636; 1672; 1756; 1778; 1810; 1847; 1865; 1884; 1899; 1941; 1958; 1975; 2010; 2024; 2041; 2063; 2087; 2111; 2176; 2190; 2228; 2244; 2284; 2297; 2316; 2339; 2356; 2369; 2388; 2418; 2439; 2456; 2479; 2514; 2541; 2572; 2594; 2620; 2642; 2661; 2689; 2725; 2744; 2767; 2781; 2801; 2814; 2828; 2847; 2861; 2880; 2912; 2926; 2939; 2965; 2996; 3009; 3026; 3043; 3057; 3074; 3092; 3107; 3135; 3151; 3170; 3192; 3208; 3231; 3250; 3275; 3294; 3314; 3341; 3365; 3398; 3417; 3445; 3459; 3525; 3549; 3564; 3587; 3608; 3625; 3673; 3700; 3714; 3743; 3767; 3800; 3817; 3837; 3850; 3863; 3921; 3948; 3967; 3997; 4022; 4042; 4056; 4081; 4099; 4136; 4174; 4203; 4231; 4245; 4265; 4280; 4301; 4315; 4334; 4352; 4368; 4408; 4428; 4455; 4473; 4494; 4507; 4520; 4537; 4561; 4584; 4616; 4641; 4668; 4690

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	164	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 622; 640; 670; 694; 712; 736; 769; 817; 851; 892; 913; 955; 989; 1008; 1030; 1057; 1081; 1105; 1138; 1159; 1180; 1204; 1231; 1255; 1272; 1299; 1319; 1348; 1365; 1418; 1447; 1489; 1572; 1610; 1646; 1730; 1752; 1784; 1821; 1839; 1858; 1915; 1932; 1949; 1984; 2002; 2022; 2042; 2061; 2085; 2150; 2202; 2258; 2290; 2313; 2330; 2362; 2392; 2413; 2430; 2453; 2488; 2515; 2546; 2568; 2594; 2616; 2635; 2663; 2699; 2718; 2741; 2762; 2780; 2797; 2821; 2854; 2886; 2913; 2939; 2970; 3000; 3017; 3043; 3066; 3087; 3109; 3129; 3149; 3166; 3205; 3224; 3249; 3268; 3288; 3315; 3339; 3372; 3391; 3419; 3441; 3499; 3523; 3542; 3561; 3582; 3599; 3647; 3674; 3694; 3717; 3741; 3774; 3791; 3811; 3837; 3895; 3922; 3941; 3971; 3996; 4016; 4055; 4073; 4110; 4148; 4177; 4205; 4226; 4254; 4275; 4308; 4326; 4382; 4402; 4429; 4447; 4468; 4494; 4511; 4535; 4558; 4590; 4615; 4642; 4664; 4693
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	1364
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1884; 3671; 4464
SimI	!GACCC	4	106; 3165; 3733; 3981
SinI	G!GWCC	3	1197; 3253; 3698
SlaI	C!TCGAG	1	1325
SmaI	CCC!GGG	1	1370
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 640; 1045; 1304; 3174
SmlI	C!TYRAG	7	1171; 1325; 1331; 3128; 4010; 4287; 4549
SmoI	C!TYRAG	7	1171; 1325; 1331; 3128; 4010; 4287; 4549
SmuI	CCCGCNNNN!	10	93; 119; 286; 1065; 1167; 2059; 2414; 2435; 3631; 3763
SmuI	!NNNNNNGCGGG	7	1102; 1356; 1990; 2860; 3397; 3535; 3682
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2307; 2379; 3142
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 1341; 1487; 1551; 1629; 1655; 1666; 2313; 2385; 2477; 3895
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2558
SsiI	C!CGC	35	58; 86; 98; 112; 279; 507; 589; 920; 1058; 1160; 1361; 2052; 2055; 2069; 2159; 2407; 2419; 2428; 2440; 2450; 2461; 2507; 2646; 2709; 3211; 3256; 3322; 3348; 3473; 3476; 3624; 3756; 4063; 4207; 4703
SsiI	G!CGG	28	370; 403; 528; 755; 1025; 1067; 1109; 1363; 1997; 2024; 2112; 2222; 2803; 2867; 2968; 2971; 3251; 3306; 3404; 3542; 3689; 3829; 4072; 4317; 4438; 4457; 4584; 4612
SspI	AAT!ATT	2	1645; 2198
SspDI	G!GCGCC	1	2736
SspD5I	GGTGANNNNNNNN!	4	376; 993; 3808; 3924
SspD5I	!NNNNNNNNNTCACC	3	881; 1853; 2914
SstI	GAGCT!C	1	1332
SstII	CCGC!GG	1	1364
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNNNN!	1	926
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	20	92; 118; 285; 848; 1064; 1166; 1187; 1375; 1936; 2058; 2413; 2434; 2747; 3150; 3289; 3360; 3630; 3762; 3992; 4430
Sth132I	!NNNNNNNNNCGGG	22	15; 407; 470; 897; 969; 1101; 1355; 1937; 1989; 2090; 2817; 2859; 2892; 3396; 3505; 3534; 3681; 3785; 3816; 4269; 4313; 4521
Sth302II	CC!GG	21	602; 1182; 1314; 1370; 1380; 1956; 2643; 2720; 2742; 2770; 2901; 2991; 3058; 3239; 3514; 3522; 3614; 4088; 4278; 4304; 4451
StrI	C!TCGAG	1	1325
StsI	GGATGNNNNNNNNNN!	4	2605; 3062; 3087; 3541
StsI	!NNNNNNNNNNNNNNNNCATCC	5	677; 765; 822; 977; 2409
StuI	AGG!CCT	1	2558

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StyI	C!CWGG	5	360; 2466; 2559; 3169; 3574
StyD4I	!CCNGG	21	88; 281; 782; 830; 926; 1179; 1367; 1368; 2271; 2326; 2343; 2739; 2899; 3122; 3512; 3701; 3804; 4276; 4494; 4507; 4628
SwaI	ATT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 666; 1357; 1828; 3117; 3233; 3341; 3664; 4155; 4625; 4696
TaiI	ACGT!	16	125; 137; 178; 261; 342; 447; 968; 1244; 1800; 1812; 1855; 1965; 2856; 3043; 3824; 3957
TaqI	T!CGA	17	749; 776; 1244; 1326; 1339; 1352; 1886; 2577; 2850; 3006; 3030; 3066; 3228; 3419; 3464; 3719; 4557
TaqII	GACCGANNNNNNNNNNN!	3	1757; 2774; 3442
TaqII	!NNNNNNNNNTCGGTC	1	3686
TaqII	CACCCANNNNNNNNNNN!	2	739; 844
TaqII	!NNNNNNNNNTGGGTG	3	172; 2641; 3233
TasI	!AATT	11	18; 1341; 1487; 1551; 1629; 1655; 1666; 2313; 2385; 2477; 3895
TatI	W!GTACW	6	217; 297; 330; 381; 650; 1271
TauI	GCSG!C	18	758; 1028; 1070; 2057; 2071; 2509; 2648; 2711; 2806; 2971; 2974; 3213; 3309; 3350; 3478; 3832; 4460; 4615
TfiI	G!AWTC	8	887; 1214; 1309; 3222; 3356; 3466; 3503; 4681
TliI	C!TCGAG	1	1325
TruII	T!TAA	16	7; 851; 1438; 1499; 1620; 1641; 1652; 1664; 1675; 1692; 1790; 2061; 3880; 3894; 3899; 3951
Tru9I	T!TAA	16	7; 851; 1438; 1499; 1620; 1641; 1652; 1664; 1675; 1692; 1790; 2061; 3880; 3894; 3899; 3951
TscAI	CASTGNN!	6	1129; 1583; 2866; 3976; 4247; 4260
TseI	G!CWGC	16	806; 950; 1248; 1513; 2032; 2697; 2798; 2840; 2881; 2974; 3361; 3814; 4040; 4246; 4249; 4314
TsoI	TARCCANNNNNNNNNNN!	2	1709; 2056
TsoI	!NNNNNNNNNTGGYTA	3	775; 1514; 3266
Tsp45I	!GTSAC	3	2026; 2857; 3163
Tsp509I	!AATT	11	18; 1341; 1487; 1551; 1629; 1655; 1666; 2313; 2385; 2477; 3895
TspDTI	ATGAANNNNNNNNNNN!	6	658; 748; 1322; 1495; 2796; 3500
TspDTI	!NNNNNNNNNTTCAT	6	26; 786; 807; 3214; 3670; 3877
TspEI	!AATT	11	18; 1341; 1487; 1551; 1629; 1655; 1666; 2313; 2385; 2477; 3895
TspGWI	ACGGANNNNNNNNNNN!	1	3612
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1368
TspRI	CASTGNN!	6	1129; 1583; 2866; 3976; 4247; 4260
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2855
Tth111II	CAARCANNNNNNNNNNN!	1	4064
Tth111II	!NNNNNNNNNTGYTTG	3	3172; 4032; 4071
UnbI	!GGNCC	13	82; 275; 756; 999; 1091; 1196; 1365; 1843; 3252; 3697; 3743; 3801; 3834
Van91I	CCANNNN!NTGG	2	1194; 1206
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	687; 4341
VpaK11AI	!GGWCC	3	1196; 3252; 3697
VpaK11BI	G!GWCC	3	1197; 3253; 3698
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	1341; 1551; 1655; 1666
XbaI	T!CTAGA	1	1384
XceI	RCATG!Y	5	639; 2307; 2379; 3142; 4659
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1325
XhoII	R!GATCY	12	585; 1147; 1321; 1372; 1381; 2908; 3154; 3546; 3905; 3917; 4003; 4014
XmaI	C!CCGGG	1	1368
XmaJI	C!CTAGG	2	2559; 3574

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XmiI	GT!MKAC	1	1352
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	9	592; 1286; 1385; 1586; 2004; 2560; 3575; 3909; 4162
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	1	1273
Zsp2I	ATGCA!T	3	2309; 2381; 4712