

pTurboFP602-N vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1528; 1733
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1816; 2772; 4561
AatI	AGG!CCT	1	2566
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	640
AccII	CG!CG	16	60; 651; 1394; 1669; 2045; 2065; 2089; 2120; 2811; 3112; 3550; 3634; 3697; 3766; 4039; 4620
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2847
Acc36I	ACCTGCNNNN!	3	1205; 3013; 3463
Acc36I	!NNNNNNNNGCAGGT	1	2632
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	7	465; 645; 739; 799; 1898; 2744; 2779
AccB7I	CCANNNN!NTGG	2	1272; 1284
AccBSI	CCG!CTC	2	2169; 3358
AccBSI	GAG!CGG	2	2005; 3412
AceIII	CAGCTCNNNNNNN!	1	1701
AceIII	!NNNNNNNNNNGAGCTG	2	552; 685
AciI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 649; 998; 1136; 1238; 1392; 2060; 2063; 2077; 2167; 2415; 2427; 2436; 2448; 2458; 2469; 2515; 2654; 2717; 3219; 3264; 3330; 3356; 3481; 3484; 3632; 3764; 4071; 4215; 4711
AciI	G!CGG	28	370; 403; 528; 651; 833; 1145; 1187; 1388; 2005; 2032; 2120; 2230; 2811; 2875; 2976; 2979; 3259; 3314; 3412; 3550; 3697; 3837; 4080; 4325; 4446; 4465; 4592; 4620
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	8	668; 2613; 2924; 3170; 3562; 3921; 4019; 4105
AclWI	!NNNNNGATCC	7	580; 655; 1220; 2989; 3533; 3920; 4017
AcoI	Y!GGCCR	7	1161; 1343; 1389; 2651; 2825; 3216; 3243
AcsI	R!AATY	4	629; 1559; 1663; 1674
AcuI	CTGAAGNNNNNNNNNNNNNNN!	3	1195; 2891; 3323
AcuI	!NNNNNNNNNNNNNCTTCAG	1	4121
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	7	122; 175; 258; 444; 2745; 3447; 3526
AdeI	CACNNN!GTG	2	1272; 1861
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 647; 730; 880; 1132; 1351; 3051
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	21	49; 796; 909; 1075; 1272; 1284; 1757; 2083; 2475; 2726; 3270; 3551; 3583; 3715; 3750; 3800; 3832; 4185; 4464; 4630; 4648
AfII	C!TTAAG	1	1627
AfIII	A!CRYGT	1	4663
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	6	762; 2156; 2200; 2210; 2623; 4199
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
Ajnl	!CCWGG	14	88; 281; 860; 908; 1004; 2279; 2334; 2351; 3130; 3709; 3812; 4502; 4515; 4636
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	1	679
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	3	1141; 2319; 2391
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	3	1107; 2285; 2357
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	2	1086; 1827
AloI	!NNNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	2	1054; 1795
AluI	AG!CT	18	566; 618; 624; 699; 872; 1179; 1382; 1524; 1691; 1948; 2243; 2531; 2851; 3309; 4106; 4363; 4409; 4499
AluBI	AG!CT	18	566; 618; 624; 699; 872; 1179; 1382; 1524; 1691; 1948; 2243; 2531; 2851; 3309; 4106; 4363; 4409; 4499
AlwI	GGATCNNNN!	8	668; 2613; 2924; 3170; 3562; 3921; 4019; 4105
AlwI	!NNNNNGATCC	7	580; 655; 1220; 2989; 3533; 3920; 4017
Alw21I	GWGCW!C	5	620; 769; 2858; 3048; 4353
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1306; 2169; 2587; 3606; 3734
Alw44I	G!TGCAC	2	765; 4349
AlwNI	CAGNN!CTG	2	3846; 4254
Ama87I	C!YCGRG	2	613; 656
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNNN!TGC	3	2313; 2385; 3847
ApaLI	G!TGCAC	2	765; 4349
ApeKI	G!CWGC	16	884; 1028; 1326; 1521; 2040; 2705; 2806; 2848; 2889; 2982; 3369; 3822; 4048; 4254; 4257; 4322
ApoI	R!AATTY	4	629; 1559; 1663; 1674
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3260
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	3054; 3707; 4545
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3144
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	860
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2573
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	3315
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	24	586; 610; 661; 702; 816; 1050; 1226; 1403; 2583; 2587; 2606; 2917; 2995; 3076; 3085; 3163; 3539; 3555; 3914; 3926; 4004; 4012; 4023; 4098
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2863
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	2567; 3582
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	21	597; 2011; 2019; 2045; 2067; 2076; 2089; 2120; 2739; 2747; 2811; 2848; 3114; 3374; 3550; 3636; 4039; 4148; 4322; 4422; 4489
AspS9I	G!GNCC	13	83; 276; 654; 835; 1078; 1170; 1275; 1852; 3261; 3706; 3752; 3810; 3843
AssI	AGT!ACT	1	1351
AsuII	TT!CGAA	2	627; 3427
AsuC2I	CC!SGG	7	657; 658; 1259; 2749; 2909; 3522; 4286
AsuHPI	GGTGANNNNNNNN!	5	376; 697; 1071; 3816; 3932
AsuHPI	!NNNNNNNTCACC	4	696; 960; 1862; 2923
AsuNH1	G!CTAGC	1	591
AvaI	C!YCGRG	2	613; 656
AvaII	G!GWCC	3	1275; 3261; 3706
AviII	TGC!GCA	1	2847
AvrII	C!CTAGG	2	2567; 3582

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AxyI	CC!TNAGG	3	944; 2225; 3857
BaeI	ACNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	8	657; 742; 769; 802; 1379; 2691; 2784; 4353
BalI	TGG!CCA	3	1163; 1345; 2827
BamHI	G!GATCC	1	660
BanI	G!GYRCC	7	465; 645; 739; 799; 1898; 2744; 2779
BanII	GRGCY!C	5	620; 657; 1936; 3110; 3820
BanIII	AT!CGAT	1	2585
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	2	1272; 1284
BauI	C!ACGAG	3	1330; 3463; 4490
BauI	C!TCGTG	2	1180; 3337
BbeI	GGCGC!C	1	2748
Bbr7I	GAAGACNNNNNN!	1	991
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	986
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	2315; 2387; 3150
BbvI	GCAGCNNNNNN!	8	896; 1338; 1533; 2818; 2860; 3381; 3834; 4334
BbvI	!NNNNNNNNNNNGCTGC	7	1015; 2027; 2692; 2876; 2969; 4035; 4241
Bbv12I	GWGCW!C	5	620; 769; 2858; 3048; 4353
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	1077; 1875; 2439; 2965; 3467
BccI	!NNNNNGATGG	5	1161; 1329; 1843; 2623; 3051
BceAI	ACGGCNNNNNNNNNN!	5	897; 1041; 1092; 3171; 3658
BceAI	!NNNNNNNNNNNGCCGT	3	1886; 2704; 4163
BceFI	ACGGCNNNNNNNNNN!	5	897; 1041; 1092; 3171; 3658
BceFI	!NNNNNNNNNNNGCCGT	3	1887; 2705; 4164
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	2174; 2964; 4465
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	701
BcnI	CC!SGG	7	657; 658; 1259; 2749; 2909; 3522; 4286
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	4598
BdaI	!NNNNNNNNNTGANNNNNNTCA	1	4564
BfaI	C!TAG	9	592; 1364; 1400; 1594; 2012; 2568; 3583; 3917; 4170
BfiI	ACTGGGNNNN!	2	1381; 2694
BfiI	!NNNCCCAGT	2	289; 2446
BfmI	C!TRYAG	4	634; 2080; 4207; 4398
BfoI	RGCGC!Y	5	598; 2012; 2020; 2748; 4423
BfrI	C!TTAAG	1	1627
BfuI	GTATCCNNNNN!	3	2174; 2964; 4465
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	3	1205; 3013; 3463
BfuAI	!NNNNNNNGCAGGT	1	2632
BfuCI	!GATC	24	585; 609; 660; 701; 815; 1049; 1225; 1402; 2582; 2586; 2605; 2916; 2994; 3075; 3084; 3162; 3538; 3554; 3913; 3925; 4003; 4011; 4022; 4097
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1154; 2520
BglII	A!GATCT	1	609

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BisI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1389; 1392; 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
BlnI	C!CTAGG	2	2567; 3582
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	35	835; 886; 1030; 1147; 1328; 1390; 1393; 1523; 2042; 2064; 2078; 2516; 2655; 2707; 2718; 2808; 2813; 2850; 2891; 2978; 2981; 2984; 3220; 3316; 3357; 3371; 3485; 3824; 3839; 4050; 4256; 4259; 4324; 4467; 4622
BmcAI	AGT!ACT	1	1351
Bme18I	G!GWCC	3	1275; 3261; 3706
Bme1390I	CC!NGG	21	90; 283; 657; 658; 862; 910; 1006; 1259; 2281; 2336; 2353; 2749; 2909; 3132; 3522; 3711; 3814; 4286; 4504; 4517; 4638
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	613; 656
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	13	84; 277; 655; 836; 1079; 1171; 1276; 1853; 3262; 3707; 3753; 3811; 3844
BmiI	GGN!NCC	19	467; 647; 655; 662; 741; 801; 1900; 1921; 1933; 2124; 2285; 2357; 2746; 2781; 3629; 3708; 3753; 4596; 4635
BmrI	ACTGGGNNNNN!	2	1381; 2694
BmrI	!NNNNCCCCAGT	2	289; 2446
BmrFI	CC!NGG	21	90; 283; 657; 658; 862; 910; 1006; 1259; 2281; 2336; 2353; 2749; 2909; 3132; 3522; 3711; 3814; 4286; 4504; 4517; 4638
BmsI	GCATCNNNNN!	7	923; 1561; 2324; 2396; 3044; 3108; 3383
BmsI	!NNNNNNNNNGATGC	9	357; 1076; 1115; 1244; 1375; 2703; 2958; 3174; 4566
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1381; 2694
BmuI	!NNNNCCCCAGT	2	289; 2446
BoxI	GACNN!NNGTC	1	1318
BpiI	GAAGACNN!	1	986
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2534; 3433
BpI	!NNNNNNNNGAGNNNNNCTC	2	2502; 3401
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3585
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	2	1003; 3528
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 3427
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	986
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4039; 4578
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	5	604; 1195; 1234; 3121; 4280
BpuMI	CC!SGG	7	657; 658; 1259; 2749; 2909; 3522; 4286
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1306; 3734
Bsa29I	AT!CGAT	1	2585
BsaAI	YAC!GTR	3	340; 1861; 3049
BsaBI	GATNN!NNATC	2	1407; 2604
BsaHI	GR!CGYC	7	122; 175; 258; 444; 2745; 3447; 3526
BsaJI	C!CNNGG	23	360; 649; 656; 677; 773; 908; 909; 1004; 1158; 2279; 2351; 2474; 2509; 2518; 2567; 2908; 3177; 3582; 3709; 3710; 3812; 3813; 4503
BsaMI	GAATGCN!	1	1496
BsaMI	G!CATTC	1	1589
BsaWI	W!CCGGW	6	600; 666; 2776; 3620; 4310; 4457
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1825
BsaXI	!NNNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1795
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	2	1746; 3653

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Bsc4I	CCNNNNN!NNGG	21	49; 796; 909; 1075; 1272; 1284; 1757; 2083; 2475; 2726; 3270; 3551; 3583; 3715; 3750; 3800; 3832; 4185; 4464; 4630; 4648
BscAI	GCATCNNNN!	7	922; 1560; 2323; 2395; 3043; 3107; 3382
BscAI	!NNNNNNGATGC	9	360; 1079; 1118; 1247; 1378; 2706; 2961; 3177; 4569
BseI	ACTGGN!	5	1289; 1376; 2689; 2890; 4136
BseI	C!CAGT	5	295; 1774; 2452; 4248; 4261
Bse8I	GATNN!NNATC	2	1407; 2604
Bse21I	CC!TNAGG	3	944; 2225; 3857
Bse118I	R!CCGGY	5	666; 1962; 3064; 3245; 3528
BseAI	T!CCGGA	0	
BseBI	CC!WGG	14	90; 283; 862; 910; 1006; 2281; 2336; 2353; 3132; 3711; 3814; 4504; 4517; 4638
BseCI	AT!CGAT	1	2585
BseDI	C!CNNGG	23	360; 649; 656; 677; 773; 908; 909; 1004; 1158; 2279; 2351; 2474; 2509; 2518; 2567; 2908; 3177; 3582; 3709; 3710; 3812; 3813; 4503
Bse3DI	GCAATGNN!	1	2978
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2605; 3062; 3087; 3541
BseGI	!CATCC	5	769; 857; 914; 1069; 2431
BseJ	GATNN!NNATC	2	1407; 2604
BseLI	CCNNNNN!NNGG	21	49; 796; 909; 1075; 1272; 1284; 1757; 2083; 2475; 2726; 3270; 3551; 3583; 3715; 3750; 3800; 3832; 4185; 4464; 4630; 4648
BseMI	GCAATGNN!	1	2978
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	620; 3871
BseMII	!NNNNNNNNCTGAG	7	935; 1141; 2216; 2518; 3399; 3971; 4380
BseNI	ACTGGN!	5	1289; 1376; 2689; 2890; 4136
BseNI	C!CAGT	5	295; 1774; 2452; 4248; 4261
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2563
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	8	657; 742; 769; 802; 1379; 2691; 2784; 4353
BseXI	GCAGCNNNNNNNN!	8	896; 1338; 1533; 2818; 2860; 3381; 3834; 4334
BseXI	!NNNNNNNNNNNGCTGC	7	1015; 2027; 2692; 2876; 2969; 4035; 4241
BseX3I	C!GGCCG	2	1389; 2651
BseYI	C!CCAGC	3	2288; 2360; 4359
BseYI	G!CTGGG	2	1106; 3249
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	1183
Bsh1236I	CG!CG	16	60; 651; 1394; 1669; 2045; 2065; 2089; 2120; 2811; 3112; 3550; 3634; 3697; 3766; 4039; 4620
Bsh1285I	CGRY!CG	4	671; 1392; 2654; 4329
BshFI	GG!CC	30	84; 277; 655; 836; 1079; 1114; 1148; 1157; 1163; 1171; 1303; 1345; 1391; 1711; 1853; 2508; 2514; 2523; 2566; 2653; 2827; 3218; 3245; 3754; 3811; 3844; 4189; 4623; 4641; 4652
BshNI	G!GYRCC	7	465; 645; 739; 799; 1898; 2744; 2779
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	2585
BsiEI	CGRY!CG	4	671; 1392; 2654; 4329
BsiHKAI	GWGCW!C	5	620; 769; 2858; 3048; 4353
BsiHKCI	C!YCGRG	2	613; 656
BsiSI	C!CGG	20	601; 657; 667; 1259; 1963; 2650; 2727; 2749; 2777; 2908; 2998; 3065; 3246; 3521; 3529; 3621; 4095; 4285; 4311; 4458
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	21	49; 796; 909; 1075; 1272; 1284; 1757; 2083; 2475; 2726; 3270; 3551; 3583; 3715; 3750; 3800; 3832; 4185; 4464; 4630; 4648
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2896; 3428; 3537
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2261; 2333; 2397; 3692
BsmI	GAATGCN!	1	1496
BsmI	G!CATTC	1	1589
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	1306; 2169; 2587; 3606; 3734
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2896; 3428; 3537

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BsmFI	!NNNNNNNNNNNNNGTCCC	4	2261; 2333; 2397; 3692
BsnI	GG!CC	30	84; 277; 655; 836; 1079; 1114; 1148; 1157; 1163; 1171; 1303; 1345; 1391; 1711; 1853; 2508; 2514; 2523; 2566; 2653; 2827; 3218; 3245; 3754; 3811; 3844; 4189; 4623; 4641; 4652
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	1306; 3734
BsoBI	C!YCGRG	2	613; 656
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	5	360; 677; 1158; 2474; 3177
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3548
Bsp24I	!NNNNNNCCANNNNNGTC	2	3969; 4147
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4001; 4179
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3516
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 3427
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	24	585; 609; 660; 701; 815; 1049; 1225; 1402; 2582; 2586; 2605; 2916; 2994; 3075; 3084; 3162; 3538; 3554; 3913; 3925; 4003; 4011; 4022; 4097
Bsp1286I	GDGCH!C	14	620; 657; 742; 769; 802; 1379; 1936; 2691; 2784; 2858; 3048; 3110; 3820; 4353
Bsp1407I	T!GTACA	1	728
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 649; 998; 1136; 1238; 1392; 2060; 2063; 2077; 2167; 2415; 2427; 2436; 2448; 2458; 2469; 2515; 2654; 2717; 3219; 3264; 3330; 3356; 3481; 3484; 3632; 3764; 4071; 4215; 4711
BspACI	G!CGG	28	370; 403; 528; 651; 833; 1145; 1187; 1388; 2005; 2032; 2120; 2230; 2811; 2875; 2976; 2979; 3259; 3314; 3412; 3550; 3697; 3837; 4080; 4325; 4446; 4465; 4592; 4620
BspCNI	CTCAGNNNNNNNN!	2	619; 3870
BspCNI	!NNNNNNNCTGAG	7	936; 1142; 2217; 2519; 3400; 3972; 4381
BspDI	AT!CGAT	1	2585
BspD6I	GACTCNNNN!	6	418; 612; 1404; 1818; 3424; 4301
BspD6I	!NNNNNGAGTC	2	1781; 2213
BspEI	T!CCGGA	0	
BspFNI	CG!CG	16	60; 651; 1394; 1669; 2045; 2065; 2089; 2120; 2811; 3112; 3550; 3634; 3697; 3766; 4039; 4620
BspHI	T!CATGA	2	2171; 3943
BspLI	GGN!NCC	19	467; 647; 655; 662; 741; 801; 1900; 1921; 1933; 2124; 2285; 2357; 2746; 2781; 3629; 3708; 3753; 4596; 4635
BspMI	ACCTGCNNNN!	3	1205; 3013; 3463
BspMI	!NNNNNNNGCAGGT	1	2632
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	668; 2613; 2924; 3170; 3562; 3921; 4019; 4105
BspPI	!NNNNNGATCC	7	580; 655; 1220; 2989; 3533; 3920; 4017
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3089; 3299
BspTI	C!TTAAG	1	1627
BspT104I	TT!CGAA	2	627; 3427
BspT107I	G!GYRCC	7	465; 645; 739; 799; 1898; 2744; 2779
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1306; 3734
BsrI	ACTGGN!	5	1289; 1376; 2689; 2890; 4136
BsrI	C!CAGT	5	295; 1774; 2452; 4248; 4261
BsrBI	CCG!CTC	2	2169; 3358
BsrBI	GAG!CGG	2	2005; 3412
BsrDI	GCAATGNN!	1	2978
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	5	666; 1962; 3064; 3245; 3528
BsrGI	T!GTACA	1	728
BsrSI	ACTGGN!	5	1289; 1376; 2689; 2890; 4136
BsrSI	C!CAGT	5	295; 1774; 2452; 4248; 4261
BssAI	R!CCGGY	5	666; 1962; 3064; 3245; 3528

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssECI	C!CNNGG	23	360; 649; 656; 677; 773; 908; 909; 1004; 1158; 2279; 2351; 2474; 2509; 2518; 2567; 2908; 3177; 3582; 3709; 3710; 3812; 3813; 4503
BssHII	G!CGCGC	0	
BssKI	!CCNGG	21	88; 281; 655; 656; 860; 908; 1004; 1257; 2279; 2334; 2351; 2747; 2907; 3130; 3520; 3709; 3812; 4284; 4502; 4515; 4636
BssMI	!GATC	24	585; 609; 660; 701; 815; 1049; 1225; 1402; 2582; 2586; 2605; 2916; 2994; 3075; 3084; 3162; 3538; 3554; 3913; 3925; 4003; 4011; 4022; 4097
BssNI	GR!CGYC	7	122; 175; 258; 444; 2745; 3447; 3526
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1330; 3463; 4490
BssSI	C!TCGTG	2	1180; 3337
BssTII	C!CWWGG	7	360; 677; 1158; 2474; 2567; 3177; 3582
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2212; 3089; 3299
Bst98I	C!TTAAG	1	1627
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	7	122; 175; 258; 444; 2745; 3447; 3526
BstAFI	C!TTAAG	1	1627
BstAPI	GCANNNN!NTGC	3	2312; 2384; 3846
BstAUI	T!GTACA	1	728
BstBI	TT!CGAA	2	627; 3427
Bst2BI	C!ACGAG	3	1330; 3463; 4490
Bst2BI	C!TCGTG	2	1180; 3337
BstBAI	YAC!GTR	3	340; 1861; 3049
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 645; 728; 744; 1836; 3125; 3241; 3349; 3672; 4163; 4633; 4704
BstC8I	GCN!NGC	33	86; 279; 593; 653; 697; 787; 991; 1116; 1964; 2007; 2021; 2294; 2313; 2366; 2385; 2639; 2825; 3044; 3110; 3116; 3144; 3148; 3189; 3193; 3247; 3530; 3717; 3764; 3820; 3842; 4053; 4613; 4650
BstDEI	C!TNAG	10	606; 944; 1150; 1241; 2225; 2527; 3408; 3857; 3980; 4389
BstDSI	C!CRYGG	6	360; 649; 677; 1158; 2474; 3177
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2605; 3062; 3087; 3541
BstF5I	!CATCC	5	769; 857; 914; 1069; 2431
BstFNI	CG!CG	16	60; 651; 1394; 1669; 2045; 2065; 2089; 2120; 2811; 3112; 3550; 3634; 3697; 3766; 4039; 4620
BstH2I	RGCGC!Y	5	598; 2012; 2020; 2748; 4423
BstHHI	GCG!C	21	597; 2011; 2019; 2045; 2067; 2076; 2089; 2120; 2739; 2747; 2811; 2848; 3114; 3374; 3550; 3636; 4039; 4148; 4322; 4422; 4489
BstKTI	GAT!C	24	588; 612; 663; 704; 818; 1052; 1228; 1405; 2585; 2589; 2608; 2919; 2997; 3078; 3087; 3165; 3541; 3557; 3916; 3928; 4006; 4014; 4025; 4100
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	5	1306; 2169; 2587; 3606; 3734
BstMBI	!GATC	24	585; 609; 660; 701; 815; 1049; 1225; 1402; 2582; 2586; 2605; 2916; 2994; 3075; 3084; 3162; 3538; 3554; 3913; 3925; 4003; 4011; 4022; 4097
BstMCI	CGRY!CG	4	671; 1392; 2654; 4329
BstMWI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 1154; 1388; 1972; 2002; 2029; 2071; 2312; 2384; 2435; 2514; 2736; 2820; 2843; 2982; 3105; 3188; 3455; 3642; 3846; 4045; 4617
BstNI	CC!WGG	14	90; 283; 862; 910; 1006; 2281; 2336; 2353; 3132; 3711; 3814; 4504; 4517; 4638
BstNSI	RCATG!Y	5	717; 2315; 2387; 3150; 4667
BstOI	CC!WGG	14	90; 283; 862; 910; 1006; 2281; 2336; 2353; 3132; 3711; 3814; 4504; 4517; 4638
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1318
BstSCI	!CCNGG	21	88; 281; 655; 656; 860; 908; 1004; 1257; 2279; 2334; 2351; 2747; 2907; 3130; 3520; 3709; 3812; 4284; 4502; 4515; 4636
BstSFI	C!TRYAG	4	634; 2080; 4207; 4398
BstSLI	GKGC!C	8	657; 742; 769; 802; 1379; 2691; 2784; 4353

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	16	60; 651; 1394; 1669; 2045; 2065; 2089; 2120; 2811; 3112; 3550; 3634; 3697; 3766; 4039; 4620
Bst2UI	CC!WGG	14	90; 283; 862; 910; 1006; 2281; 2336; 2353; 3132; 3711; 3814; 4504; 4517; 4638
BstV1I	GCAGCNNNNNNNN!	8	896; 1338; 1533; 2818; 2860; 3381; 3834; 4334
BstV1I	!NNNNNNNNNNNGCTGC	7	1015; 2027; 2692; 2876; 2969; 4035; 4241
BstV2I	GAAGACNN!	1	986
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	1	681
BstX2I	R!GATCY	11	585; 609; 660; 1225; 2916; 3162; 3554; 3913; 3925; 4011; 4022
BstYI	R!GATCY	11	585; 609; 660; 1225; 2916; 3162; 3554; 3913; 3925; 4011; 4022
BstZI	C!GGCCG	2	1389; 2651
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2174; 2964; 4465
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2585
Bsu36I	CC!TNAGG	3	944; 2225; 3857
BsuRI	GG!CC	30	84; 277; 655; 836; 1079; 1114; 1148; 1157; 1163; 1171; 1303; 1345; 1391; 1711; 1853; 2508; 2514; 2523; 2566; 2653; 2827; 3218; 3245; 3754; 3811; 3844; 4189; 4623; 4641; 4652
BsuTUI	AT!CGAT	1	2585
BtgI	C!CRYGG	6	360; 649; 677; 1158; 2474; 3177
BtgZI	GCGATGNNNNNNNNNN!	2	1862; 3197
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3016; 3360
BthCI	GCNG!C	35	836; 887; 1031; 1148; 1329; 1391; 1394; 1524; 2043; 2065; 2079; 2517; 2656; 2708; 2719; 2809; 2814; 2851; 2892; 2979; 2982; 2985; 3221; 3317; 3358; 3372; 3486; 3825; 3840; 4051; 4257; 4260; 4325; 4468; 4623
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	1200; 1584
BtsCI	GGATGNN!	4	2605; 3062; 3087; 3541
BtsCI	!CATCC	5	769; 857; 914; 1069; 2431
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	1205; 3013; 3463
BveI	!NNNNNNNNNGCAGGT	1	2632
Cac8I	GCN!NGC	33	86; 279; 593; 653; 697; 787; 991; 1116; 1964; 2007; 2021; 2294; 2313; 2366; 2385; 2639; 2825; 3044; 3110; 3116; 3144; 3148; 3189; 3193; 3247; 3530; 3717; 3764; 3820; 3842; 4053; 4613; 4650
CaiI	CAGNNN!CTG	2	3846; 4254
CciI	T!CATGA	2	2171; 3943
CciNI	GC!GGCCGC	1	1389
CdiI	CATC!G	5	352; 3034; 3039; 3237; 3378
CdiI	C!GATG	2	1848; 3183
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4617
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2406; 2448
CelII	GC!TNAGC	0	
CfoI	GCG!C	21	597; 2011; 2019; 2045; 2067; 2076; 2089; 2120; 2739; 2747; 2811; 2848; 3114; 3374; 3550; 3636; 4039; 4148; 4322; 4422; 4489
CfrI	Y!GGCCR	7	1161; 1343; 1389; 2651; 2825; 3216; 3243
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	5	666; 1962; 3064; 3245; 3528
Cfr13I	G!GNCC	13	83; 276; 654; 835; 1078; 1170; 1275; 1852; 3261; 3706; 3752; 3810; 3843
Cfr42I	CCGC!GG	1	652
ChaI	GATC!	24	589; 613; 664; 705; 819; 1053; 1229; 1406; 2586; 2590; 2609; 2920; 2998; 3079; 3088; 3166; 3542; 3558; 3917; 3929; 4007; 4015; 4026; 4101
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	6	702; 781; 2562; 4002; 4102; 4180
CjeI	!NNNNNNNNNACNNNNNNNTGG	8	64; 257; 716; 2229; 2324; 3516; 4066; 4621
CjeI	ACNNNNNNTGGNNNNNNNNNNNNNNNN!	8	98; 291; 750; 2263; 2358; 3550; 4100; 4655
CjeI	!NNNNNNNNCCANNNNNNGT	6	668; 747; 2528; 3968; 4068; 4146
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNNNN!	2	4002; 4180

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjePI	!NNNNNNNNGANNNNNNNTGG	4	257; 1143; 3516; 4115
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	4	290; 1176; 3549; 4148
CjePI	!NNNNNNNCCANNNNNNNTC	2	3969; 4147
Clal	AT!CGAT	1	2585
CpoI	CG!GWCCG	1	3261
CseI	GACGCNNNNN!	3	526; 3455; 3534
CseI	!NNNNNNNNGCGTC	3	2078; 3973; 4551
CsiI	A!CCWGGT	1	2334
CspI	CG!GWCCG	1	3261
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 729; 879; 1131; 1350; 3050
Csp45I	TT!CGAA	2	627; 3427
CspAI	A!CCGGT	1	666
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1322; 2025; 3634
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	23	301; 361; 678; 714; 720; 732; 810; 876; 956; 1159; 2172; 2312; 2384; 2475; 2616; 2961; 3147; 3178; 3204; 3560; 3944; 4664; 4715
CviJI	RG!CY	98	42; 84; 93; 277; 566; 618; 624; 655; 699; 789; 836; 865; 872; 892; 950; 1016; 1028; 1079; 1106; 1114; 1148; 1157; 1163; 1171; 1179; 1193; 1262; 1303; 1339; 1345; 1382; 1391; 1414; 1524; 1691; 1711; 1853; 1934; 1948; 1962; 2243; 2284; 2356; 2479; 2508; 2514; 2523; 2531; 2554; 2566; 2572; 2653; 2670; 2678; 2705; 2730; 2814; 2823; 2827; 2851; 2889; 2965; 2982; 3001; 3064; 3108; 3118; 3135; 3218; 3245; 3249; 3286; 3309; 3325; 3505; 3532; 3593; 3715; 3754; 3811; 3818; 3825; 3844; 3855; 4106; 4135; 4178; 4189; 4254; 4333; 4358; 4363; 4409; 4499; 4597; 4623; 4641; 4652
CviKI-1	RG!CY	98	42; 84; 93; 277; 566; 618; 624; 655; 699; 789; 836; 865; 872; 892; 950; 1016; 1028; 1079; 1106; 1114; 1148; 1157; 1163; 1171; 1179; 1193; 1262; 1303; 1339; 1345; 1382; 1391; 1414; 1524; 1691; 1711; 1853; 1934; 1948; 1962; 2243; 2284; 2356; 2479; 2508; 2514; 2523; 2531; 2554; 2566; 2572; 2653; 2670; 2678; 2705; 2730; 2814; 2823; 2827; 2851; 2889; 2965; 2982; 3001; 3064; 3108; 3118; 3135; 3218; 3245; 3249; 3286; 3309; 3325; 3505; 3532; 3593; 3715; 3754; 3811; 3818; 3825; 3844; 3855; 4106; 4135; 4178; 4189; 4254; 4333; 4358; 4363; 4409; 4499; 4597; 4623; 4641; 4652
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 729; 879; 1131; 1350; 3050
DdeI	C!TNAG	10	606; 944; 1150; 1241; 2225; 2527; 3408; 3857; 3980; 4389
DinI	GGC!GCC	1	2746
DpnI	GA!TC	24	587; 611; 662; 703; 817; 1051; 1227; 1404; 2584; 2588; 2607; 2918; 2996; 3077; 3086; 3164; 3540; 3556; 3915; 3927; 4005; 4013; 4024; 4099
DpnII	!GATC	24	585; 609; 660; 701; 815; 1049; 1225; 1402; 2582; 2586; 2605; 2916; 2994; 3075; 3084; 3162; 3538; 3554; 3913; 3925; 4003; 4011; 4022; 4097
DraI	TTT!AAA	3	1447; 3889; 3908
DraII	RG!GNCCY	1	3843
DraIII	CACNN!GTG	2	1272; 1861
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 1373; 4225
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	1816; 2772; 4561
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1816; 2772; 4561
EaeI	Y!GGCCR	7	1161; 1343; 1389; 2651; 2825; 3216; 3243
EagI	C!GGCCG	2	1389; 2651
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2212; 3089; 3299
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EarI	!NNNNGAAGAG	3	2212; 3089; 3299
EciI	GGCGGANNNNNNNNNN!	4	2245; 3274; 4461; 4607
EciI	!NNNNNNNNNTCCGCC	4	496; 2416; 2437; 2458
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	2	1389; 2651
Eco24I	GRGCY!C	5	620; 657; 1936; 3110; 3820
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1306; 3734
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	1275; 3261; 3706
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1389; 2651
Eco57I	CTGAAGNNNNNNNNNNNN!	3	1195; 2891; 3323
Eco57I	!NNNNNNNNNNNNNCTTCAG	1	4121
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	944; 2225; 3857
Eco88I	C!YCGRG	2	613; 656
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWGGG	7	360; 677; 1158; 2474; 2567; 3177; 3582
Eco147I	AGG!CCT	1	2566
EcoHI	!CCSGG	7	655; 656; 1257; 2747; 2907; 3520; 4284
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNN!	4	1195; 2891; 3323; 3585
Eco57MI	!NNNNNNNNNNNNNCTYCAG	3	1003; 3528; 4121
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	3843
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	14	88; 281; 860; 908; 1004; 2279; 2334; 2351; 3130; 3709; 3812; 4502; 4515; 4636
EcoRV	GAT!ATC	0	
EcoT14I	C!CWGGG	7	360; 677; 1158; 2474; 2567; 3177; 3582
EcoT22I	ATGCA!T	3	2317; 2389; 4720
EcoT38I	GRGCY!C	5	620; 657; 1936; 3110; 3820
Eco53kI	GAG!CTC	1	618
EgeI	GGC!GCC	1	2746
EheI	GGC!GCC	1	2746
ErhI	C!CWGGG	7	360; 677; 1158; 2474; 2567; 3177; 3582
EsaBC3I	TC!GA	17	615; 628; 641; 828; 855; 1323; 1895; 2586; 2859; 3015; 3039; 3075; 3237; 3428; 3473; 3728; 4566
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	23	304; 364; 681; 717; 723; 735; 813; 879; 959; 1162; 2175; 2315; 2387; 2478; 2619; 2964; 3150; 3181; 3207; 3563; 3947; 4667; 4718
FaiI	YA!TR	61	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 715; 721; 733; 811; 877; 957; 975; 1160; 1221; 1407; 1417; 1483; 1528; 1733; 2161; 2173; 2304; 2313; 2376; 2385; 2409; 2476; 2500; 2617; 2681; 2962; 2987; 3148; 3179; 3205; 3277; 3493; 3561; 3639; 3691; 3852; 3869; 3871; 3873; 3945; 4223; 4412; 4528; 4601; 4665; 4716
FalI	AAGNNNNNCTNNNNNNNNNN!	2	954; 3085
FalI	!NNNNNNNNAAGNNNNNCTT	2	922; 3053
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2896; 3428; 3537
FaqI	!NNNNNNNNNNNNNGTCCC	4	2261; 2333; 2397; 3692
FatI	!CATG	23	300; 360; 677; 713; 719; 731; 809; 875; 955; 1158; 2171; 2311; 2383; 2474; 2615; 2960; 3146; 3177; 3203; 3559; 3943; 4663; 4714
FauI	CCCGCNNNN!	10	93; 119; 286; 1143; 1245; 2067; 2422; 2443; 3639; 3771
FauI	!NNNNNNGCGGG	7	644; 1180; 1998; 2868; 3405; 3543; 3690
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	701
FblI	GT!MKAC	1	640
FmuI	GGNC!C	13	86; 279; 657; 838; 1081; 1173; 1278; 1855; 3264; 3709; 3755; 3813; 3846

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1389; 1392; 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
FokI	GGATGNNNNNNNNN!	4	2612; 3069; 3094; 3548
FokI	!NNNNNNNNNNNNNNCATCC	5	756; 844; 901; 1056; 2418
FriOI	GRGCY!C	5	620; 657; 1936; 3110; 3820
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2847
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1364; 1400; 1594; 2012; 2568; 3583; 3917; 4170
FspEI	CCNNNNNNNNNNNN!	158	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 720; 756; 786; 803; 817; 850; 864; 882; 906; 921; 951; 984; 1011; 1026; 1045; 1081; 1128; 1147; 1162; 1177; 1210; 1230; 1250; 1271; 1291; 1317; 1359; 1375; 1405; 1428; 1467; 1481; 1622; 1717; 1741; 1764; 1787; 1805; 1827; 1848; 1867; 1886; 1915; 1936; 1950; 1976; 2064; 2090; 2139; 2180; 2198; 2237; 2253; 2291; 2348; 2363; 2420; 2440; 2454; 2471; 2485; 2522; 2537; 2580; 2663; 2730; 2761; 2781; 2796; 2841; 2855; 2921; 2935; 2954; 2970; 3011; 3031; 3078; 3128; 3144; 3164; 3189; 3209; 3232; 3259; 3277; 3303; 3343; 3369; 3393; 3449; 3463; 3491; 3534; 3555; 3590; 3634; 3722; 3746; 3768; 3788; 3804; 3825; 3839; 3858; 3942; 3962; 3990; 4005; 4039; 4081; 4108; 4123; 4168; 4192; 4206; 4228; 4254; 4274; 4298; 4324; 4372; 4391; 4410; 4436; 4471; 4516; 4546; 4560; 4611; 4625; 4650; 4666; 4687; 4716
FspEI	!NNNNNNNNNNNNNNNGG	128	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 673; 718; 760; 781; 805; 847; 866; 895; 931; 968; 991; 1010; 1040; 1061; 1088; 1130; 1153; 1172; 1244; 1270; 1321; 1357; 1416; 1516; 1585; 1615; 1693; 1742; 1764; 1792; 1828; 1873; 1902; 1938; 1957; 1985; 2005; 2068; 2091; 2199; 2231; 2249; 2278; 2321; 2350; 2461; 2490; 2533; 2554; 2582; 2615; 2635; 2660; 2687; 2712; 2734; 2762; 2788; 2809; 2860; 2881; 2899; 2947; 2983; 3039; 3064; 3088; 3117; 3140; 3164; 3190; 3212; 3231; 3256; 3296; 3332; 3397; 3482; 3506; 3535; 3569; 3590; 3610; 3655; 3682; 3701; 3734; 3786; 3817; 3844; 3896; 3994; 4065; 4110; 4171; 4236; 4270; 4296; 4314; 4350; 4420; 4443; 4465; 4489; 4522; 4570; 4605; 4623; 4680
Fsp4HI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1389; 1392; 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
GdiII	C!GGCCR	2	1389; 2651
GdiII	Y!GGCCG	4	1389; 2651; 3216; 3243
GlaI	GC!GC	21	596; 2010; 2018; 2044; 2066; 2075; 2088; 2119; 2738; 2746; 2810; 2847; 3113; 3373; 3549; 3635; 4038; 4147; 4321; 4421; 4488
GluI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1389; 1392; 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
GsaI	CCCAG!C	3	2292; 2364; 4363
GsaI	GCTGG!G	2	1110; 3253
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3585
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	1003; 3528
HaeI	WGG!CCW	9	1114; 1157; 1163; 1345; 2566; 2827; 4189; 4641; 4652
HaeII	RGCGC!Y	5	598; 2012; 2020; 2748; 4423
HaeIII	GG!CC	30	84; 277; 655; 836; 1079; 1114; 1148; 1157; 1163; 1171; 1303; 1345; 1391; 1711; 1853; 2508; 2514; 2523; 2566; 2653; 2827; 3218; 3245; 3754; 3811; 3844; 4189; 4623; 4641; 4652
HaeIV	GAYNNNNNNRTCNNNNNNNNNNNNNN!	2	1420; 2941
HaeIV	!NNNNNNNNNGAYNNNNNNRTCC	2	1386; 2907
HaeIV	GAYNNNNNNRTCNNNNNNNNNNNNNN!	2	1419; 2940
HaeIV	!NNNNNNNGAYNNNNNNRTCC	2	1388; 2909
HapII	C!CGG	20	601; 657; 667; 1259; 1963; 2650; 2727; 2749; 2777; 2908; 2998; 3065; 3246; 3521; 3529; 3621; 4095; 4285; 4311; 4458
HgaI	GACGCNNNNN!	3	526; 3455; 3534
HgaI	!NNNNNNNNNGCGTC	3	2078; 3973; 4551

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HhaI	GCG!C	21	597; 2011; 2019; 2045; 2067; 2076; 2089; 2120; 2739; 2747; 2811; 2848; 3114; 3374; 3550; 3636; 4039; 4148; 4322; 4422; 4489
Hin1I	GR!CGYC	7	122; 175; 258; 444; 2745; 3447; 3526
Hin1II	CATG!	23	304; 364; 681; 717; 723; 735; 813; 879; 959; 1162; 2175; 2315; 2387; 2478; 2619; 2964; 3150; 3181; 3207; 3563; 3947; 4667; 4718
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1419; 2940
Hin4I	!NNNNNNNNGABNNNNNRTC	3	1387; 2908; 2938
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1419; 2940; 2970
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	1387; 2908
Hin6I	G!CGC	21	595; 2009; 2017; 2043; 2065; 2074; 2087; 2118; 2737; 2745; 2809; 2846; 3112; 3372; 3548; 3634; 4037; 4146; 4320; 4420; 4487
HinP1I	G!CGC	21	595; 2009; 2017; 2043; 2065; 2074; 2087; 2118; 2737; 2745; 2809; 2846; 3112; 3372; 3548; 3634; 4037; 4146; 4320; 4420; 4487
HincII	GTY!RAC	2	641; 1508
HindII	GTY!RAC	2	641; 1508
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	15	410; 604; 965; 1292; 1396; 1788; 1810; 2220; 3230; 3364; 3416; 3474; 3511; 4293; 4689
HpaI	GTT!AAC	1	1508
HpaII	C!CGG	20	601; 657; 667; 1259; 1963; 2650; 2727; 2749; 2777; 2908; 2998; 3065; 3246; 3521; 3529; 3621; 4095; 4285; 4311; 4458
HphI	GGTGANNNNNNNN!	5	376; 697; 1071; 3816; 3932
HphI	!NNNNNNNTCACC	4	696; 960; 1862; 2923
Hpy8I	GTN!NAC	13	201; 539; 577; 641; 747; 767; 1062; 1275; 1508; 1792; 1809; 1864; 4351
Hpy99I	CGWCG!	9	645; 1324; 2835; 2863; 3157; 3172; 3449; 3834; 4567
Hpy166II	GTN!NAC	13	201; 539; 577; 641; 747; 767; 1062; 1275; 1508; 1792; 1809; 1864; 4351
Hpy188I	TCN!GA	13	585; 609; 774; 1919; 2528; 2712; 3056; 3409; 3510; 3989; 4123; 4476; 4554
Hpy188III	TC!NNGA	25	613; 1020; 1047; 1212; 1251; 1400; 2172; 2224; 2537; 2590; 2763; 3079; 3088; 3171; 3227; 3271; 3361; 3394; 3463; 3944; 4018; 4101; 4199; 4297; 4431
HpyAV	CCTTCNNNNNN!	6	855; 903; 948; 3390; 3497; 4176
HpyAV	!NNNNNGAAGG	8	775; 1978; 2873; 3602; 3618; 3801; 4118; 4428
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 645; 728; 744; 1836; 3125; 3241; 3349; 3672; 4163; 4633; 4704
HpyCH4IV	A!CGT	16	122; 134; 175; 258; 339; 444; 1043; 1319; 1805; 1817; 1860; 1970; 2861; 3048; 3829; 3962
HpyCH4V	TG!CA	21	636; 717; 767; 1089; 1200; 1494; 1521; 1589; 2306; 2315; 2378; 2387; 2502; 2578; 2637; 2796; 2971; 2985; 4055; 4351; 4718
HpyF3I	C!TNAG	10	606; 944; 1150; 1241; 2225; 2527; 3408; 3857; 3980; 4389
HpyF10VI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 1154; 1388; 1972; 2002; 2029; 2071; 2312; 2384; 2435; 2514; 2736; 2820; 2843; 2982; 3105; 3188; 3455; 3642; 3846; 4045; 4617
Hsp92I	GR!CGYC	7	122; 175; 258; 444; 2745; 3447; 3526
Hsp92II	CATG!	23	304; 364; 681; 717; 723; 735; 813; 879; 959; 1162; 2175; 2315; 2387; 2478; 2619; 2964; 3150; 3181; 3207; 3563; 3947; 4667; 4718
HspAI	G!CGC	21	595; 2009; 2017; 2043; 2065; 2074; 2087; 2118; 2737; 2745; 2809; 2846; 3112; 3372; 3548; 3634; 4037; 4146; 4320; 4420; 4487
KasI	G!GCGCC	1	2744
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	649
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	652
Ksp22I	T!GATCA	1	701
KspAI	GTT!AAC	1	1508
Kzo9I	!GATC	24	585; 609; 660; 701; 815; 1049; 1225; 1402; 2582; 2586; 2605; 2916; 2994; 3075; 3084; 3162; 3538; 3554; 3913; 3925; 4003; 4011; 4022; 4097
LguI	GCTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LguI	!NNNNGAAGAGC	2	3089; 3299
LpnI	RGC!GCGY	5	596; 2010; 2018; 2746; 4421
LpnPI	CCDGNNNNNNNNNNN!	60	102; 295; 614; 670; 817; 874; 922; 956; 1018; 1033; 1094; 1128; 1162; 1177; 1210; 1272; 1482; 1787; 1976; 2199; 2237; 2253; 2293; 2348; 2365; 2465; 2550; 2663; 2740; 2762; 2785; 2921; 2935; 2954; 3011; 3078; 3128; 3144; 3201; 3259; 3468; 3534; 3558; 3634; 3723; 3826; 3859; 4090; 4108; 4254; 4274; 4298; 4324; 4373; 4471; 4516; 4546; 4625; 4650; 4687
LpnPI	!NNNNNNNNNNNNNNCHGG	53	75; 268; 552; 586; 642; 847; 895; 991; 1092; 1244; 1270; 1357; 1828; 1948; 2005; 2068; 2266; 2278; 2338; 2350; 2582; 2627; 2670; 2712; 2734; 2762; 2809; 2871; 2893; 2983; 3050; 3073; 3117; 3212; 3231; 3256; 3405; 3506; 3549; 3606; 3696; 3799; 3826; 3844; 4080; 4117; 4270; 4296; 4436; 4454; 4489; 4570; 4623
Lsp1109I	GCAGCNNNNNNNN!	8	896; 1338; 1533; 2818; 2860; 3381; 3834; 4334
Lsp1109I	!NNNNNNNNNNNNNGCTGC	7	1015; 2027; 2692; 2876; 2969; 4035; 4241
LweI	GCATCNNNNN!	7	923; 1561; 2324; 2396; 3044; 3108; 3383
LweI	!NNNNNNNNNNGATGC	9	357; 1076; 1115; 1244; 1375; 2703; 2958; 3174; 4566
MabI	A!CCWGGT	1	2334
MaeI	C!TAG	9	592; 1364; 1400; 1594; 2012; 2568; 3583; 3917; 4170
MaeII	A!CGT	16	122; 134; 175; 258; 339; 444; 1043; 1319; 1805; 1817; 1860; 1970; 2861; 3048; 3829; 3962
MaeIII	!GTNAC	12	61; 148; 497; 1533; 2034; 2046; 2865; 3171; 3861; 4127; 4243; 4306
MalI	GA!TC	24	587; 611; 662; 703; 817; 1051; 1227; 1404; 2584; 2588; 2607; 2918; 2996; 3077; 3086; 3164; 3540; 3556; 3915; 3927; 4005; 4013; 4024; 4099
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2169; 3358
MbiI	GAG!CGG	2	2005; 3412
MboI	!GATC	24	585; 609; 660; 701; 815; 1049; 1225; 1402; 2582; 2586; 2605; 2916; 2994; 3075; 3084; 3162; 3538; 3554; 3913; 3925; 4003; 4011; 4022; 4097
MboII	GAAGANNNNNNNN!	8	825; 991; 1104; 2001; 2229; 3106; 3316; 3935
MboII	!NNNNNNNTCTTC	4	3396; 3563; 3763; 4006
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1495
MfiI	R!GATCY	11	585; 609; 660; 1225; 2916; 3162; 3554; 3913; 3925; 4011; 4022
MhII	GDGCH!C	14	620; 657; 742; 769; 802; 1379; 1936; 2691; 2784; 2858; 3048; 3110; 3820; 4353
MisI	TGG!CCA	3	1163; 1345; 2827
MluI	A!CGCGT	0	
MluNI	TGG!CCA	3	1163; 1345; 2827
MlyI	GAGTCNNNNN!	2	1797; 2229
MlyI	!NNNNNGACTC	6	404; 598; 1390; 1804; 3410; 4287
Mly113I	GG!CGCC	1	2745
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	2	1097; 1838
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4270; 4454
MnII	CCTCNNNNNNN!	13	848; 1027; 1042; 1219; 1258; 1369; 1464; 2528; 3346; 3552; 3866; 4236; 4560
MnII	!NNNNNGAGG	22	541; 681; 729; 768; 789; 822; 939; 1104; 1147; 1293; 1424; 1889; 2220; 2498; 2541; 2556; 2596; 2660; 2796; 3153; 3583; 4486
Mph1103I	ATGCA!T	3	2317; 2389; 4720
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	1962; 3245; 3528
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	3	1163; 1345; 2827
MseI	T!TAA	16	7; 929; 1446; 1507; 1628; 1649; 1660; 1672; 1683; 1700; 1798; 2069; 3888; 3902; 3907; 3959
MsiI	CAYNN!NNRTG	5	365; 679; 718; 1123; 3182
MspI	C!CGG	20	601; 657; 667; 1259; 1963; 2650; 2727; 2749; 2777; 2908; 2998; 3065; 3246; 3521; 3529; 3621; 4095; 4285; 4311; 4458
Msp20I	TGG!CCA	3	1163; 1345; 2827

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspAII	CMG!CKG	8	651; 1138; 1145; 1382; 2243; 2851; 4080; 4325
MspCI	C!TTAAG	1	1627
MspJI	CNNRNNNNNNNN!	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; 627; 640; 662; 679; 708; 726; 744; 774; 792; 807; 822; 840; 873; 888; 916; 931; 955; 968; 984; 1002; 1016; 1032; 1045; 1059; 1080; 1093; 1114; 1127; 1147; 1161; 1176; 1192; 1209; 1222; 1236; 1249; 1263; 1284; 1297; 1316; 1335; 1358; 1375; 1390; 1405; 1418; 1433; 1452; 1469; 1482; 1523; 1537; 1550; 1568; 1606; 1621; 1639; 1680; 1704; 1724; 1742; 1763; 1786; 1818; 1833; 1855; 1873; 1886; 1907; 1924; 1937; 1950; 1966; 1979; 2009; 2024; 2049; 2067; 2080; 2095; 2119; 2133; 2157; 2182; 2198; 2236; 2252; 2291; 2305; 2319; 2347; 2363; 2377; 2391; 2420; 2433; 2454; 2463; 2485; 2515; 2531; 2549; 2579; 2602; 2626; 2650; 2669; 2697; 2723; 2739; 2752; 2775; 2789; 2809; 2822; 2836; 2855; 2869; 2882; 2898; 2913; 2926; 2942; 2957; 2973; 2998; 3017; 3033; 3046; 3059; 3077; 3091; 3105; 3121; 3143; 3159; 3178; 3200; 3216; 3239; 3258; 3272; 3288; 3302; 3322; 3338; 3351; 3373; 3406; 3420; 3440; 3453; 3467; 3521; 3534; 3557; 3570; 3589; 3606; 3633; 3669; 3702; 3721; 3746; 3767; 3794; 3807; 3824; 3838; 3853; 3869; 3929; 3954; 3970; 3992; 4005; 4019; 4050; 4064; 4089; 4107; 4122; 4135; 4154; 4167; 4182; 4211; 4230; 4248; 4273; 4288; 4307; 4323; 4342; 4360; 4376; 4390; 4409; 4436; 4459; 4481; 4500; 4515; 4528; 4545; 4565; 4592; 4605; 4624; 4649; 4672; 4686; 4699; 4716
MspJI	!NNNNNNNNNNNNYNG	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; 593; 612; 636; 653; 673; 694; 718; 748; 772; 790; 814; 833; 855; 895; 916; 942; 962; 991; 1033; 1067; 1088; 1108; 1135; 1159; 1183; 1216; 1237; 1256; 1282; 1304; 1327; 1350; 1373; 1397; 1426; 1455; 1497; 1580; 1615; 1642; 1665; 1694; 1738; 1760; 1792; 1828; 1845; 1866; 1903; 1923; 1940; 1957; 1992; 2010; 2028; 2045; 2069; 2091; 2118; 2146; 2172; 2210; 2231; 2248; 2266; 2289; 2310; 2338; 2361; 2382; 2400; 2421; 2438; 2461; 2485; 2505; 2523; 2545; 2576; 2598; 2624; 2643; 2660; 2688; 2707; 2726; 2744; 2762; 2783; 2805; 2829; 2862; 2882; 2900; 2921; 2947; 2974; 2991; 3008; 3025; 3051; 3073; 3095; 3113; 3133; 3152; 3174; 3212; 3232; 3256; 3276; 3296; 3323; 3347; 3380; 3399; 3427; 3449; 3478; 3506; 3531; 3550; 3569; 3590; 3607; 3624; 3655; 3682; 3702; 3725; 3745; 3782; 3799; 3818; 3844; 3864; 3903; 3930; 3949; 3967; 4004; 4022; 4063; 4081; 4107; 4124; 4156; 4185; 4213; 4234; 4257; 4276; 4297; 4315; 4332; 4350; 4376; 4397; 4417; 4437; 4455; 4476; 4502; 4519; 4538; 4557; 4586; 4605; 4623; 4642; 4660; 4678; 4701
MspR9I	CC!NGG	21	90; 283; 657; 658; 862; 910; 1006; 1259; 2281; 2336; 2353; 2749; 2909; 3132; 3522; 3711; 3814; 4286; 4504; 4517; 4638
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1495
MvaI	CC!WGG	14	90; 283; 862; 910; 1006; 2281; 2336; 2353; 3132; 3711; 3814; 4504; 4517; 4638
Mva1269I	GAATGCN!	1	1496
Mva1269I	G!CATTC	1	1589
MvnI	CG!CG	16	60; 651; 1394; 1669; 2045; 2065; 2089; 2120; 2811; 3112; 3550; 3634; 3697; 3766; 4039; 4620
MvrI	CGAT!CG	0	
MwoI	GCNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 1154; 1388; 1972; 2002; 2029; 2071; 2312; 2384; 2435; 2514; 2736; 2820; 2843; 2982; 3105; 3188; 3455; 3642; 3846; 4045; 4617
NaeI	GCC!GGC	3	1964; 3247; 3530
NarI	GG!CGCC	1	2745
NciI	CC!SGG	7	657; 658; 1259; 2749; 2909; 3522; 4286
NcoI	C!CATGG	5	360; 677; 1158; 2474; 3177
NdeI	CA!TATG	1	234
NdeII	!GATC	24	585; 609; 660; 701; 815; 1049; 1225; 1402; 2582; 2586; 2605; 2916; 2994; 3075; 3084; 3162; 3538; 3554; 3913; 3925; 4003; 4011; 4022; 4097
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	806
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	842
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NgoMIV	G!CCGGC	3	1962; 3245; 3528
NheI	G!CTAGC	1	591
NlaIII	CATG!	23	304; 364; 681; 717; 723; 735; 813; 879; 959; 1162; 2175; 2315; 2387; 2478; 2619; 2964; 3150; 3181; 3207; 3563; 3947; 4667; 4718
NlaIV	GGN!NCC	19	467; 647; 655; 662; 741; 801; 1900; 1921; 1933; 2124; 2285; 2357; 2746; 2781; 3629; 3708; 3753; 4596; 4635
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1577; 1892; 3484
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 1066; 4556
Nli3877I	CYCGR!G	2	617; 660
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2534; 2970
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1082; 2499
NmeDI	RCCGGYNNNNNNNN!	5	678; 1974; 3076; 3257; 3540
NmeDI	!NNNNNNNNNNNNRCCGGY	5	653; 1949; 3051; 3232; 3515
NmuCI	!GTSAC	3	2034; 2865; 3171
NotI	GC!GGCCGC	1	1389
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2847
NsiI	ATGCA!T	3	2317; 2389; 4720
NspI	RCATG!Y	5	717; 2315; 2387; 3150; 4667
NspV	TT!CGAA	2	627; 3427
OliI	CACNN!NNGTG	1	679
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 648; 731; 881; 1133; 1352; 3052
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2315; 2387; 3150
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	2171; 3943
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	909; 3710; 3813
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2566
PciI	A!CATGT	1	4663
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3089; 3299
PcsI	WCGNNNN!NNNCGW	7	1328; 3039; 3116; 3359; 3433; 3826; 4344
PctI	GAATGCN!	1	1496
PctI	G!CATTC	1	1589
PdiI	GCC!GGC	3	1964; 3247; 3530
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	965; 1292; 3230; 3364; 3474; 3511; 4689
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2863
PfIMI	CCANNNN!NTGG	2	1272; 1284
PfoI	T!CCNGGA	1	3520
PhoI	GG!CC	30	84; 277; 655; 836; 1079; 1114; 1148; 1157; 1163; 1171; 1303; 1345; 1391; 1711; 1853; 2508; 2514; 2523; 2566; 2653; 2827; 3218; 3245; 3754; 3811; 3844; 4189; 4623; 4641; 4652
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3126
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	3	1363; 2691; 2946
PleI	GAGTCNNNN!	2	1796; 2228
PleI	!NNNNNGACTC	6	404; 598; 1390; 1804; 3410; 4287
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1827
PpiI	!NNNNNNNGAGNNNNNGTTC	1	3957
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3989
PpiI	!NNNNNNGAACNNNNNCTC	1	1795
PpsI	GAGTCNNNN!	2	1796; 2228
PpsI	!NNNNNGACTC	6	404; 598; 1390; 1804; 3410; 4287
Ppu10I	A!TGCAT	3	2313; 2385; 4716
Ppu21I	YAC!GTR	3	340; 1861; 3049

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4663
PshAI	GACNN!NNGTC	1	1318
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1528; 1733
Psp03I	GGWC!C	3	1278; 3264; 3709
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	14	88; 281; 860; 908; 1004; 2279; 2334; 2351; 3130; 3709; 3812; 4502; 4515; 4636
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	14	88; 281; 860; 908; 1004; 2279; 2334; 2351; 3130; 3709; 3812; 4502; 4515; 4636
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	19	467; 647; 655; 662; 741; 801; 1900; 1921; 1933; 2124; 2285; 2357; 2746; 2781; 3629; 3708; 3753; 4596; 4635
PspOMI	G!GGCCC	1	653
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 2475; 3474
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2877
PspPI	G!GNCC	13	83; 276; 654; 835; 1078; 1170; 1275; 1852; 3261; 3706; 3752; 3810; 3843
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	2298; 2370; 3876
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	4	930; 1358; 2211; 3406
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGNC!CY	1	3846
PstI	CTGCA!G	1	638
PstNI	CAGNN!CTG	2	3846; 4254
PsuI	R!GATCY	11	585; 609; 660; 1225; 2916; 3162; 3554; 3913; 3925; 4011; 4022
PsyI	GACN!NNGTC	1	2863
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1382; 2243; 2851
RcaI	T!CATGA	2	2171; 3943
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3260
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	1474
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 647; 730; 880; 1132; 1351; 3051
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 729; 879; 1131; 1350; 3050
RseI	CAYNN!NNRTG	5	365; 679; 718; 1123; 3182
RsrII	CG!GWCCG	1	3261
Rsr2I	CG!GWCCG	1	3261
SacI	GAGCT!C	1	620
SacII	CCGC!GG	1	652
SaI	G!TCGAC	1	639
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	3089; 3299
SaqAI	T!TAA	16	7; 929; 1446; 1507; 1628; 1649; 1660; 1672; 1683; 1700; 1798; 2069; 3888; 3902; 3907; 3959

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SatI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1389; 1392; 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
Sau96I	G!GNCC	13	83; 276; 654; 835; 1078; 1170; 1275; 1852; 3261; 3706; 3752; 3810; 3843
Sau3AI	!GATC	24	585; 609; 660; 701; 815; 1049; 1225; 1402; 2582; 2586; 2605; 2916; 2994; 3075; 3084; 3162; 3538; 3554; 3913; 3925; 4003; 4011; 4022; 4097
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	1	1351
SchI	GAGTCNNNNN!	2	1797; 2229
SchI	!NNNNNGACTC	6	404; 598; 1390; 1804; 3410; 4287
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	21	90; 283; 657; 658; 862; 910; 1006; 1259; 2281; 2336; 2353; 2749; 2909; 3132; 3522; 3711; 3814; 4286; 4504; 4517; 4638
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	1116; 2323; 2395; 2564; 4506
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2900; 3385
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	14	620; 657; 742; 769; 802; 1379; 1936; 2691; 2784; 2858; 3048; 3110; 3820; 4353
SelI	!CGCG	16	58; 649; 1392; 1667; 2043; 2063; 2087; 2118; 2809; 3110; 3548; 3632; 3695; 3764; 4037; 4618
SetI	ASST!	62	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 701; 824; 874; 1046; 1181; 1199; 1250; 1318; 1322; 1361; 1384; 1435; 1456; 1465; 1477; 1526; 1693; 1808; 1820; 1863; 1900; 1950; 1973; 2097; 2245; 2340; 2533; 2646; 2774; 2853; 2864; 2936; 3007; 3051; 3311; 3457; 3501; 3832; 3863; 3922; 3965; 4108; 4129; 4228; 4365; 4380; 4399; 4411; 4455; 4501; 4552
SexAI	A!CCWGGT	1	2334
SfaI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	923; 1561; 2324; 2396; 3044; 3108; 3383
SfaNI	!NNNNNNNNNGATGC	9	357; 1076; 1115; 1244; 1375; 2703; 2958; 3174; 4566
Sfcl	C!TRYAG	4	634; 2080; 4207; 4398
SfiI	GGCCNNNN!NGGCC	2	1154; 2520
SfoI	GGC!GCC	1	2746
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	1	652
SfuI	TT!CGAA	2	627; 3427
SgeI	CNNGNNNNNNNN!	187	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 708; 726; 744; 774; 798; 816; 831; 873; 888; 921; 955; 968; 996; 1017; 1032; 1059; 1093; 1114; 1127; 1147; 1161; 1176; 1192; 1209; 1224; 1242; 1263; 1284; 1297; 1335; 1359; 1376; 1405; 1452; 1481; 1523; 1606; 1680; 1764; 1786; 1818; 1855; 1873; 1892; 1907; 1949; 1966; 1983; 2018; 2032; 2049; 2071; 2095; 2119; 2184; 2198; 2236; 2252; 2292; 2305; 2324; 2347; 2364; 2377; 2396; 2426; 2447; 2464; 2487; 2522; 2549; 2580; 2602; 2628; 2650; 2669; 2697; 2733; 2752; 2775; 2789; 2809; 2822; 2836; 2855; 2869; 2888; 2920; 2934; 2947; 2973; 3004; 3017; 3034; 3051; 3065; 3082; 3100; 3115; 3143; 3159; 3178; 3200; 3216; 3239; 3258; 3283; 3302; 3322; 3349; 3373; 3406; 3425; 3453; 3467; 3533; 3557; 3572; 3595; 3616; 3633; 3681; 3708; 3722; 3751; 3775; 3808; 3825; 3845; 3858; 3871; 3929; 3956; 3975; 4005; 4030; 4050; 4064; 4089; 4107; 4144; 4182; 4211; 4239; 4253; 4273; 4288; 4309; 4323; 4342; 4360; 4376; 4416; 4436; 4463; 4481; 4502; 4515; 4528; 4545; 4569; 4592; 4624; 4649; 4676; 4698

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	163	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 682; 700; 718; 748; 772; 790; 814; 847; 895; 929; 970; 991; 1033; 1067; 1088; 1108; 1135; 1159; 1183; 1216; 1237; 1258; 1282; 1309; 1333; 1350; 1379; 1426; 1455; 1497; 1580; 1654; 1738; 1760; 1792; 1829; 1847; 1866; 1923; 1940; 1957; 1992; 2010; 2030; 2050; 2069; 2093; 2158; 2210; 2266; 2298; 2321; 2338; 2370; 2400; 2421; 2438; 2461; 2496; 2523; 2554; 2576; 2602; 2624; 2643; 2671; 2707; 2726; 2749; 2770; 2788; 2805; 2829; 2862; 2894; 2921; 2947; 2978; 3008; 3025; 3051; 3074; 3095; 3117; 3137; 3157; 3174; 3213; 3232; 3257; 3276; 3296; 3323; 3347; 3380; 3399; 3427; 3449; 3507; 3531; 3550; 3569; 3590; 3607; 3655; 3682; 3702; 3725; 3749; 3782; 3799; 3819; 3845; 3903; 3930; 3949; 3979; 4004; 4024; 4063; 4081; 4118; 4156; 4185; 4213; 4234; 4262; 4283; 4316; 4334; 4390; 4410; 4437; 4455; 4476; 4502; 4519; 4543; 4566; 4598; 4623; 4650; 4672; 4701
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	652
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1892; 3679; 4472
SimI	!GACCC	4	106; 3173; 3741; 3989
SinI	G!GWCC	3	1275; 3261; 3706
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 679; 718; 1123; 3182
SmII	C!TYRAG	9	613; 619; 1210; 1249; 1627; 3136; 4018; 4295; 4557
SmoI	C!TYRAG	9	613; 619; 1210; 1249; 1627; 3136; 4018; 4295; 4557
SmuI	CCCGCNNNN!	10	93; 119; 286; 1143; 1245; 2067; 2422; 2443; 3639; 3771
SmuI	!NNNNNNGCGGG	7	644; 1180; 1998; 2868; 3405; 3543; 3690
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2315; 2387; 3150
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 629; 1495; 1559; 1637; 1663; 1674; 2321; 2393; 2485; 3903
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2566
SsiI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 649; 998; 1136; 1238; 1392; 2060; 2063; 2077; 2167; 2415; 2427; 2436; 2448; 2458; 2469; 2515; 2654; 2717; 3219; 3264; 3330; 3356; 3481; 3484; 3632; 3764; 4071; 4215; 4711
SsiI	G!CGG	28	370; 403; 528; 651; 833; 1145; 1187; 1388; 2005; 2032; 2120; 2230; 2811; 2875; 2976; 2979; 3259; 3314; 3412; 3550; 3697; 3837; 4080; 4325; 4446; 4465; 4592; 4620
SspI	AAT!ATT	2	1653; 2206
SspDI	G!GCGCC	1	2744
SspD5I	GGTGANNNNNNNN!	5	376; 697; 1071; 3816; 3932
SspD5I	!NNNNNNNNNTCACC	4	695; 959; 1861; 2922
SstI	GAGCT!C	1	620
SstII	CCGC!GG	1	652
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	1	1004
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	20	92; 118; 285; 663; 926; 1142; 1244; 1265; 1944; 2066; 2421; 2442; 2755; 3158; 3297; 3368; 3638; 3770; 4000; 4438
Sth132I	!NNNNNNNNCGGG	22	15; 407; 470; 643; 975; 1047; 1179; 1945; 1997; 2098; 2825; 2867; 2900; 3404; 3513; 3542; 3689; 3793; 3824; 4277; 4321; 4529
Sth302II	CC!GG	20	602; 658; 668; 1260; 1964; 2651; 2728; 2750; 2778; 2909; 2999; 3066; 3247; 3522; 3530; 3622; 4096; 4286; 4312; 4459
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	4	2613; 3070; 3095; 3549
StsI	!NNNNNNNNNNNNNNCATCC	5	755; 843; 900; 1055; 2417
StuI	AGG!CCT	1	2566
StyI	C!CWWGG	7	360; 677; 1158; 2474; 2567; 3177; 3582

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StyD4I	!CCNGG	21	88; 281; 655; 656; 860; 908; 1004; 1257; 2279; 2334; 2351; 2747; 2907; 3130; 3520; 3709; 3812; 4284; 4502; 4515; 4636
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 645; 728; 744; 1836; 3125; 3241; 3349; 3672; 4163; 4633; 4704
TaiI	ACGT!	16	125; 137; 178; 261; 342; 447; 1046; 1322; 1808; 1820; 1863; 1973; 2864; 3051; 3832; 3965
TaqI	T!CGA	17	614; 627; 640; 827; 854; 1322; 1894; 2585; 2858; 3014; 3038; 3074; 3236; 3427; 3472; 3727; 4565
TaqII	GACCGANNNNNNNNNNN!	3	1765; 2782; 3450
TaqII	!NNNNNNNNNTCGGTC	1	3694
TaqII	CACCCANNNNNNNNNNN!	2	817; 922
TaqII	!NNNNNNNNNTGGGTG	4	172; 673; 2649; 3241
TasI	!AATT	11	18; 629; 1495; 1559; 1637; 1663; 1674; 2321; 2393; 2485; 3903
TatI	W!GTACW	6	217; 297; 330; 381; 728; 1349
TauI	GCSG!C	19	836; 1148; 1391; 1394; 2065; 2079; 2517; 2656; 2719; 2814; 2979; 2982; 3221; 3317; 3358; 3486; 3840; 4468; 4623
TfiI	G!AWTC	7	965; 1292; 3230; 3364; 3474; 3511; 4689
TliI	C!TCGAG	1	613
Tru1I	T!TAA	16	7; 929; 1446; 1507; 1628; 1649; 1660; 1672; 1683; 1700; 1798; 2069; 3888; 3902; 3907; 3959
Tru9I	T!TAA	16	7; 929; 1446; 1507; 1628; 1649; 1660; 1672; 1683; 1700; 1798; 2069; 3888; 3902; 3907; 3959
TscAI	CASTGNN!	6	1207; 1591; 2874; 3984; 4255; 4268
TseI	G!CWGC	16	884; 1028; 1326; 1521; 2040; 2705; 2806; 2848; 2889; 2982; 3369; 3822; 4048; 4254; 4257; 4322
TsoI	TARCCANNNNNNNNNNN!	2	1717; 2064
TsoI	!NNNNNNNNNTGGYTA	3	853; 1522; 3274
Tsp45I	!GTSAC	3	2034; 2865; 3171
Tsp509I	!AATT	11	18; 629; 1495; 1559; 1637; 1663; 1674; 2321; 2393; 2485; 3903
TspDTI	ATGAANNNNNNNNNNN!	5	736; 826; 1503; 2804; 3508
TspDTI	!NNNNNNNNNTTCAT	6	26; 864; 885; 3222; 3678; 3885
TspEI	!AATT	11	18; 629; 1495; 1559; 1637; 1663; 1674; 2321; 2393; 2485; 3903
TspGWI	ACGGANNNNNNNNNNN!	1	3620
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	6	1207; 1591; 2874; 3984; 4255; 4268
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2863
Tth111II	CAARCANNNNNNNNNNN!	1	4072
Tth111II	!NNNNNNNNNTGYTTG	3	3180; 4040; 4079
UnbI	!GGNCC	13	82; 275; 653; 834; 1077; 1169; 1274; 1851; 3260; 3705; 3751; 3809; 3842
Van9I	CCANNNN!NTGG	2	1272; 1284
Vha464I	C!TTAAG	1	1627
VneI	G!TGCAC	2	765; 4349
VpaK11AI	!GGWCC	3	1274; 3260; 3705
VpaK11BI	G!GWCC	3	1275; 3261; 3706
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	629; 1559; 1663; 1674
XbaI	T!CTAGA	1	1399
XceI	RCATG!Y	5	717; 2315; 2387; 3150; 4667
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	11	585; 609; 660; 1225; 2916; 3162; 3554; 3913; 3925; 4011; 4022
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	2567; 3582
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	9	592; 1364; 1400; 1594; 2012; 2568; 3583; 3917; 4170
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	1	1351

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Zsp21	ATGCA!T	3	2317; 2389; 4720