

## pKatushka2S-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	1527; 1732
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1815; 2771; 4560
AatI	AGG!CCT	1	2565
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	640
AccII	CG!CG	16	60; 651; 1393; 1668; 2044; 2064; 2088; 2119; 2810; 3111; 3549; 3633; 3696; 3765; 4038; 4619
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2846
Acc36I	ACCTGCNNNN!	4	1205; 1367; 3012; 3462
Acc36I	!NNNNNNNNNGCAGGT	1	2631
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	7	465; 645; 739; 799; 1897; 2743; 2778
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	2168; 3357
AccBSI	GAG!CGG	3	1387; 2004; 3411
AceIII	CAGCTCNNNNNNN!	1	1700
AceIII	!NNNNNNNNNNNGAGCTG	1	552
AciI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 649; 998; 1136; 1238; 1391; 2059; 2062; 2076; 2166; 2414; 2426; 2435; 2447; 2457; 2468; 2514; 2653; 2716; 3218; 3263; 3329; 3355; 3480; 3483; 3631; 3763; 4070; 4214; 4710
AciI	G!CGG	28	370; 403; 528; 651; 833; 1145; 1187; 1387; 2004; 2031; 2119; 2229; 2810; 2874; 2975; 2978; 3258; 3313; 3411; 3549; 3696; 3836; 4079; 4324; 4445; 4464; 4591; 4619
AcI	AA!CGTT	0	
AcIWI	GGATCNNNN!	9	668; 973; 2612; 2923; 3169; 3561; 3920; 4018; 4104
AcIWI	!NNNNNGATCC	7	580; 655; 1220; 2988; 3532; 3919; 4016
AcoI	Y!GGCCR	6	1343; 1388; 2650; 2824; 3215; 3242
AcsI	R!AATTY	4	629; 1558; 1662; 1673
AcuI	CTGAAGNNNNNNNNNNNNNNNNN!	3	1195; 2890; 3322
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4120
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	7	122; 175; 258; 444; 2744; 3446; 3525
AdeI	CACNNN!GTG	1	1860
AfaI	GT!AC	11	219; 244; 299; 332; 383; 540; 647; 730; 880; 1132; 3050
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	20	49; 796; 909; 1075; 1284; 1756; 2082; 2474; 2725; 3269; 3550; 3582; 3714; 3749; 3799; 3831; 4184; 4463; 4629; 4647
AfIII	C!TTAAG	1	1626
AfIII	A!CRYGT	1	4662
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	6	762; 2155; 2199; 2209; 2622; 4198
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	14	88; 281; 860; 908; 1004; 2278; 2333; 2350; 3129; 3708; 3811; 4501; 4514; 4635
AjuI	GAANNNNNNNNTTGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNTTC	0	
AjuI	CCAANNNNNNNNTTCNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNNGAANNNTTGG	0	
AleI	CACNN!NNGTG	1	679
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	3	1141; 2318; 2390
AlfI	!NNNNNNNNNGCANNNNNNTGC	3	1107; 2284; 2356
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	2	1086; 1826
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	2	1054; 1794
AluI	AG!CT	17	566; 618; 624; 872; 1179; 1382; 1523; 1690; 1947; 2242; 2530; 2850; 3308; 4105; 4362; 4408; 4498
AluBI	AG!CT	17	566; 618; 624; 872; 1179; 1382; 1523; 1690; 1947; 2242; 2530; 2850; 3308; 4105; 4362; 4408; 4498
AlwI	GGATCNNNN!	9	668; 973; 2612; 2923; 3169; 3561; 3920; 4018; 4104
AlwI	!NNNNNGATCC	7	580; 655; 1220; 2988; 3532; 3919; 4016
Alw21I	GWGCW!C	5	620; 769; 2857; 3047; 4352
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	6	1275; 1306; 2168; 2586; 3605; 3733
Alw44I	G!TGCAC	2	765; 4348
AlwNI	CAGNNN!CTG	3	1352; 3845; 4253
Ama87I	C!YCGRG	2	613; 656
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNNN!TGC	3	2312; 2384; 3846
ApaLI	G!TGCAC	2	765; 4348
ApeKI	G!CWGC	16	884; 1028; 1326; 1520; 2039; 2704; 2805; 2847; 2888; 2981; 3368; 3821; 4047; 4253; 4256; 4321
ApoI	R!AATTY	4	629; 1558; 1662; 1673
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3259
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	3053; 3706; 4544
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3143
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	860
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2572
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTTCCYC	1	3314
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNGTCCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	25	586; 610; 661; 702; 816; 966; 1050; 1226; 1402; 2582; 2586; 2605; 2916; 2994; 3075; 3084; 3162; 3538; 3554; 3913; 3925; 4003; 4011; 4022; 4097
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2862
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	2566; 3581
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	21	597; 2010; 2018; 2044; 2066; 2075; 2088; 2119; 2738; 2746; 2810; 2847; 3113; 3373; 3549; 3635; 4038; 4147; 4321; 4421; 4488
AspS9I	G!GNCC	13	83; 276; 654; 835; 1078; 1170; 1275; 1851; 3260; 3705; 3751; 3809; 3842
AssI	AGT!ACT	0	
AsuI	TT!CGAA	2	627; 3426
AsuC2I	CC!SGG	7	657; 658; 1259; 2748; 2908; 3521; 4285
AsuHPI	GGTGANNNNNNNNN!	5	376; 697; 1071; 3815; 3931
AsuHPI	!NNNNNNNTCACC	4	696; 960; 1861; 2922
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	613; 656
AvaII	G!GWCC	3	1275; 3260; 3705

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AviII	TGC!GCA	1	2846
AvrII	C!CTAGG	2	2566; 3581
AxyI	CC!TNAGG	3	944; 2224; 3856
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCM!C	8	657; 742; 769; 802; 1379; 2690; 2783; 4352
BalI	TGG!CCA	2	1345; 2826
BamHI	G!GATCC	1	660
BanI	G!GYRCC	7	465; 645; 739; 799; 1897; 2743; 2778
BanII	GRGCY!C	5	620; 657; 1935; 3109; 3819
BanIII	AT!CGAT	1	2584
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	0	
BauI	C!ACGAG	3	1330; 3462; 4489
BauI	C!TCGTG	2	1180; 3336
BbeI	GGCGC!C	1	2747
Bbr7I	GAAGACNNNNNN!	1	991
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	986
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	2314; 2386; 3149
BbvI	GCAGCNNNNNNNN!	8	896; 1338; 1532; 2817; 2859; 3380; 3833; 4333
BbvI	!NNNNNNNNNNNGCTGC	7	1015; 2026; 2691; 2875; 2968; 4034; 4240
Bbv12I	GWGCW!C	5	620; 769; 2857; 3047; 4352
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	1077; 1874; 2438; 2964; 3466
BccI	!NNNNNGATGG	5	1161; 1329; 1842; 2622; 3050
BceAI	ACGGCNNNNNNNNNNNN!	5	897; 1041; 1092; 3170; 3657
BceAI	!NNNNNNNNNNNNNGCCGT	3	1885; 2703; 4162
BcefI	ACGGCNNNNNNNNNNNN!	5	897; 1041; 1092; 3170; 3657
BcefI	!NNNNNNNNNNNNNGCCGT	3	1886; 2704; 4163
BcgI	CGANNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2173; 2963; 4464
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	701
BcnI	CC!SGG	7	657; 658; 1259; 2748; 2908; 3521; 4285
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNNNN!	1	4597
BdaI	!NNNNNNNNNTGANNNNNTCA	1	4563
BfaI	C!TAG	9	592; 1364; 1399; 1593; 2011; 2567; 3582; 3916; 4169
BfiI	ACTGGGNNNNN!	2	1381; 2693
BfiI	!NNNNCCAGT	2	289; 2445
BfmI	C!TRYAG	4	634; 2079; 4206; 4397
BfoI	RGCGC!Y	5	598; 2011; 2019; 2747; 4422
BfrI	C!TTAAG	1	1626
BfuI	GTATCCNNNNNN!	3	2173; 2963; 4464
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	1205; 1367; 3012; 3462
BfuAI	!NNNNNNNGCAGGT	1	2631
BfuCI	!GATC	25	585; 609; 660; 701; 815; 965; 1049; 1225; 1401; 2581; 2585; 2604; 2915; 2993; 3074; 3083; 3161; 3537; 3553; 3912; 3924; 4002; 4010; 4021; 4096
BglI	GCCNNNN!NGGC	6	90; 212; 283; 1154; 1168; 2519
BglII	A!GATCT	1	609

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BisI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1388; 1391; 1521; 2040; 2062; 2076; 2514; 2653; 2705; 2716; 2806; 2811; 2848; 2889; 2976; 2979; 2982; 3218; 3314; 3355; 3369; 3483; 3822; 3837; 4048; 4254; 4257; 4322; 4465; 4620
BlnI	C!CTAGG	2	2566; 3581
BlpI	GC!TNAGC	1	1383
BlsI	GCN!GC	35	835; 886; 1030; 1147; 1328; 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
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	1275; 3260; 3705
Bme1390I	CC!NGG	21	90; 283; 657; 658; 862; 910; 1006; 1259; 2280; 2335; 2352; 2748; 2908; 3131; 3521; 3710; 3813; 4285; 4503; 4516; 4637
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; 1852; 3261; 3706; 3752; 3810; 3843
BmiI	GGN!NCC	19	467; 647; 655; 662; 741; 801; 1899; 1920; 1932; 2123; 2284; 2356; 2745; 2780; 3628; 3707; 3752; 4595; 4634
BmrI	ACTGGGNNNNN!	2	1381; 2693
BmrI	!NNNNCCAGT	2	289; 2445
BmrFI	CC!NGG	21	90; 283; 657; 658; 862; 910; 1006; 1259; 2280; 2335; 2352; 2748; 2908; 3131; 3521; 3710; 3813; 4285; 4503; 4516; 4637
BmsI	GCATCNNNNN!	7	923; 1560; 2323; 2395; 3043; 3107; 3382
BmsI	!NNNNNNNNNGATGC	8	357; 1076; 1115; 1244; 2702; 2957; 3173; 4565
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1381; 2693
BmuI	!NNNNCCAGT	2	289; 2445
BoxI	GACNN!NNGTC	1	1318
BpiI	GAAGACNN!	1	986
BpiI	!NNNNNGTCTTC	0	
BpII	GAGNNNNNCTCNNNNNNNNNNNNN!	2	2533; 3432
BpII	!NNNNNNNGAGNNNNNCTC	2	2501; 3400
BpmI	CTGGAGNNNNNNNNNNNNNNN!	1	3584
BpmI	!NNNNNNNNNNNNNNCTCCAG	2	1003; 3527
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 3426
Bpu1102I	GC!TNAGC	1	1383
BpuAI	GAAGACNN!	1	986
BpuAI	!NNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNN!	2	4038; 4577
BpuEI	!NNNNNNNNNNNNNNCTCAAG	5	604; 1195; 1234; 3120; 4279
BpuMI	CC!SGG	7	657; 658; 1259; 2748; 2908; 3521; 4285
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1306; 3733
Bsa29I	AT!CGAT	1	2584
BsaAI	YAC!GTR	3	340; 1860; 3048
BsaBI	GATNN!NNATC	2	1406; 2603
BsaHI	GR!CGYC	7	122; 175; 258; 444; 2744; 3446; 3525
BsaJI	C!CNNGG	22	360; 649; 656; 677; 773; 908; 909; 1004; 2278; 2350; 2473; 2508; 2517; 2566; 2907; 3176; 3581; 3708; 3709; 3811; 3812; 4502
BsaMI	GAATGCN!	1	1495
BsaMI	G!CATTC	1	1588
BsaWI	W!CCGGW	7	600; 666; 1277; 2775; 3619; 4309; 4456
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1824
BsaXI	!NNNNNNNGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1794



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BsmI	GAATGCN!	1	1495
BsmI	G!CATTC	1	1588
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	6	1275; 1306; 2168; 2586; 3605; 3733
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2895; 3427; 3536
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2260; 2332; 2396; 3691
BsnI	GG!CC	29	84; 277; 655; 836; 1079; 1114; 1148; 1157; 1171; 1303; 1345; 1390; 1710; 1852; 2507; 2513; 2522; 2565; 2652; 2826; 3217; 3244; 3753; 3810; 3843; 4188; 4622; 4640; 4651
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	1306; 3733
BsoBI	C!YCGRG	2	613; 656
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 677; 2473; 3176
Bsp24I	GACNNNNNTGGNNNNNNNNNNNN!	2	289; 3547
Bsp24I	!NNNNNNCCANNNNNGTC	2	3968; 4146
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	4000; 4178
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3515
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 3426
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	25	585; 609; 660; 701; 815; 965; 1049; 1225; 1401; 2581; 2585; 2604; 2915; 2993; 3074; 3083; 3161; 3537; 3553; 3912; 3924; 4002; 4010; 4021; 4096
Bsp1286I	GDGCH!C	14	620; 657; 742; 769; 802; 1379; 1935; 2690; 2783; 2857; 3047; 3109; 3819; 4352
Bsp1407I	T!GTACA	1	728
Bsp1720I	GC!TNAGC	1	1383
BspACI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 649; 998; 1136; 1238; 1391; 2059; 2062; 2076; 2166; 2414; 2426; 2435; 2447; 2457; 2468; 2514; 2653; 2716; 3218; 3263; 3329; 3355; 3480; 3483; 3631; 3763; 4070; 4214; 4710
BspACI	G!CGG	28	370; 403; 528; 651; 833; 1145; 1187; 1387; 2004; 2031; 2119; 2229; 2810; 2874; 2975; 2978; 3258; 3313; 3411; 3549; 3696; 3836; 4079; 4324; 4445; 4464; 4591; 4619
BspCNI	CTCAGNNNNNNNNNN!	2	619; 3869
BspCNI	!NNNNNNNCTGAG	8	936; 1142; 1375; 2216; 2518; 3399; 3971; 4380
BspDI	AT!CGAT	1	2584
BspD6I	GACTCNNNN!	6	418; 612; 1403; 1817; 3423; 4300
BspD6I	!NNNNNGAGTC	2	1780; 2212
BspEI	T!CCGGA	0	
BspFNI	CG!CG	16	60; 651; 1393; 1668; 2044; 2064; 2088; 2119; 2810; 3111; 3549; 3633; 3696; 3765; 4038; 4619
BspHI	T!CATGA	2	2170; 3942
BspLI	GGN!NCC	19	467; 647; 655; 662; 741; 801; 1899; 1920; 1932; 2123; 2284; 2356; 2745; 2780; 3628; 3707; 3752; 4595; 4634
BspMI	ACCTGCNNNN!	4	1205; 1367; 3012; 3462
BspMI	!NNNNNNNGCAGGT	1	2631
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	668; 973; 2612; 2923; 3169; 3561; 3920; 4018; 4104
BspPI	!NNNNNGATCC	7	580; 655; 1220; 2988; 3532; 3919; 4016
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3088; 3298
BspTI	C!TTAAG	1	1626
BspT104I	TT!CGAA	2	627; 3426
BspT107I	G!GYRCC	7	465; 645; 739; 799; 1897; 2743; 2778
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1306; 3733
BsrI	ACTGGN!	5	1289; 1376; 2688; 2889; 4135
BsrI	C!CAGT	5	295; 1773; 2451; 4247; 4260
BsrBI	CCG!CTC	2	2168; 3357
BsrBI	GAG!CGG	3	1387; 2004; 3411

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BsrDI	GCAATGNN!	1	2977
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	5	666; 1961; 3063; 3244; 3527
BsrGI	T!GTACA	1	728
BsrSI	ACTGNN!	5	1289; 1376; 2688; 2889; 4135
BsrSI	C!CAGT	5	295; 1773; 2451; 4247; 4260
BssAI	R!CCGGY	5	666; 1961; 3063; 3244; 3527
BssECI	C!CNNGG	22	360; 649; 656; 677; 773; 908; 909; 1004; 2278; 2350; 2473; 2508; 2517; 2566; 2907; 3176; 3581; 3708; 3709; 3811; 3812; 4502
BssHII	G!CGCGC	0	
BssKI	!CCNGG	21	88; 281; 655; 656; 860; 908; 1004; 1257; 2278; 2333; 2350; 2746; 2906; 3129; 3519; 3708; 3811; 4283; 4501; 4514; 4635
BssMI	!GATC	25	585; 609; 660; 701; 815; 965; 1049; 1225; 1401; 2581; 2585; 2604; 2915; 2993; 3074; 3083; 3161; 3537; 3553; 3912; 3924; 4002; 4010; 4021; 4096
BssNI	GR!CGYC	7	122; 175; 258; 444; 2744; 3446; 3525
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1330; 3462; 4489
BssSI	C!TCGTG	2	1180; 3336
BssTII	C!CWWGG	6	360; 677; 2473; 2566; 3176; 3581
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	3	2211; 3088; 3298
Bst98I	C!TTAAG	1	1626
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	7	122; 175; 258; 444; 2744; 3446; 3525
BstAFI	C!TTAAG	1	1626
BstAPI	GCANNNN!NTGC	3	2311; 2383; 3845
BstAUI	T!GTACA	1	728
BstBI	TT!CGAA	2	627; 3426
Bst2BI	C!ACGAG	3	1330; 3462; 4489
Bst2BI	C!TCGTG	2	1180; 3336
BstBAI	YAC!GTR	3	340; 1860; 3048
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 645; 728; 744; 1835; 3124; 3240; 3348; 3671; 4162; 4632; 4703
BstC8I	GCN!NGC	32	86; 279; 593; 653; 697; 787; 991; 1116; 1963; 2006; 2020; 2293; 2312; 2365; 2384; 2638; 2824; 3043; 3109; 3115; 3147; 3188; 3192; 3246; 3529; 3716; 3763; 3819; 3841; 4052; 4612; 4649
BstDEI	C!TNAG	11	606; 944; 1150; 1241; 1383; 2224; 2526; 3407; 3856; 3979; 4388
BstDSI	C!CRYGG	5	360; 649; 677; 2473; 3176
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2604; 3061; 3086; 3540
BstF5I	!CATCC	5	769; 857; 914; 1069; 2430
BstFNI	CG!CG	16	60; 651; 1393; 1668; 2044; 2064; 2088; 2119; 2810; 3111; 3549; 3633; 3696; 3765; 4038; 4619
BstH2I	RGCGC!Y	5	598; 2011; 2019; 2747; 4422
BstHHI	GCG!C	21	597; 2010; 2018; 2044; 2066; 2075; 2088; 2119; 2738; 2746; 2810; 2847; 3113; 3373; 3549; 3635; 4038; 4147; 4321; 4421; 4488
BstKTI	GAT!C	25	588; 612; 663; 704; 818; 968; 1052; 1228; 1404; 2584; 2588; 2607; 2918; 2996; 3077; 3086; 3164; 3540; 3556; 3915; 3927; 4005; 4013; 4024; 4099
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	6	1275; 1306; 2168; 2586; 3605; 3733
BstMBI	!GATC	25	585; 609; 660; 701; 815; 965; 1049; 1225; 1401; 2581; 2585; 2604; 2915; 2993; 3074; 3083; 3161; 3537; 3553; 3912; 3924; 4002; 4010; 4021; 4096
BstMCI	CGRY!CG	4	671; 1391; 2653; 4328
BstMWI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 1154; 1168; 1971; 2001; 2028; 2070; 2311; 2383; 2434; 2513; 2735; 2819; 2842; 2981; 3104; 3187; 3454; 3641; 3845; 4044; 4616

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstNI	CC!WGG	14	90; 283; 862; 910; 1006; 2280; 2335; 2352; 3131; 3710; 3813; 4503; 4516; 4637
BstNSI	RCATG!Y	5	717; 2314; 2386; 3149; 4666
BstOI	CC!WGG	14	90; 283; 862; 910; 1006; 2280; 2335; 2352; 3131; 3710; 3813; 4503; 4516; 4637
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1318
BstSCI	!CCNGG	21	88; 281; 655; 656; 860; 908; 1004; 1257; 2278; 2333; 2350; 2746; 2906; 3129; 3519; 3708; 3811; 4283; 4501; 4514; 4635
BstSFI	C!TRYAG	4	634; 2079; 4206; 4397
BstSLI	GKGCM!C	8	657; 742; 769; 802; 1379; 2690; 2783; 4352
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	16	60; 651; 1393; 1668; 2044; 2064; 2088; 2119; 2810; 3111; 3549; 3633; 3696; 3765; 4038; 4619
Bst2UI	CC!WGG	14	90; 283; 862; 910; 1006; 2280; 2335; 2352; 3131; 3710; 3813; 4503; 4516; 4637
BstV1I	GCAGCNNNNNNNN!	8	896; 1338; 1532; 2817; 2859; 3380; 3833; 4333
BstV1I	!NNNNNNNNNNNGCTGC	7	1015; 2026; 2691; 2875; 2968; 4034; 4240
BstV2I	GAAGACNN!	1	986
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	1	681
BstX2I	R!GATCY	11	585; 609; 660; 1225; 2915; 3161; 3553; 3912; 3924; 4010; 4021
BstYI	R!GATCY	11	585; 609; 660; 1225; 2915; 3161; 3553; 3912; 3924; 4010; 4021
BstZI	C!GGCCG	2	1388; 2650
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2173; 2963; 4464
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2584
Bsu36I	CC!TNAGG	3	944; 2224; 3856
BsuRI	GG!CC	29	84; 277; 655; 836; 1079; 1114; 1148; 1157; 1171; 1303; 1345; 1390; 1710; 1852; 2507; 2513; 2522; 2565; 2652; 2826; 3217; 3244; 3753; 3810; 3843; 4188; 4622; 4640; 4651
BsuTUI	AT!CGAT	1	2584
BtgI	C!CRYGG	5	360; 649; 677; 2473; 3176
BtgZI	GCGATGNNNNNNNNNN!	2	1861; 3196
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 3015; 3359
BthCI	GCNG!C	35	836; 887; 1031; 1148; 1329; 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
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	1200; 1583
BtsCI	GGATGNN!	4	2604; 3061; 3086; 3540
BtsCI	!CATCC	5	769; 857; 914; 1069; 2430
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	1205; 1367; 3012; 3462
BveI	!NNNNNNNNNGCAGGT	1	2631
Cac8I	GCN!NGC	32	86; 279; 593; 653; 697; 787; 991; 1116; 1963; 2006; 2020; 2293; 2312; 2365; 2384; 2638; 2824; 3043; 3109; 3115; 3147; 3188; 3192; 3246; 3529; 3716; 3763; 3819; 3841; 4052; 4612; 4649
CaiI	CAGNNN!CTG	3	1352; 3845; 4253
CciI	T!CATGA	2	2170; 3942
CciNI	GC!GGCCGC	1	1388
CdiI	CATC!G	5	352; 3033; 3038; 3236; 3377
CdiI	C!GATG	2	1847; 3182
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	4616
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2405; 2447
CelII	GC!TNAGC	1	1383



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CfoI	GCG!C	21	597; 2010; 2018; 2044; 2066; 2075; 2088; 2119; 2738; 2746; 2810; 2847; 3113; 3373; 3549; 3635; 4038; 4147; 4321; 4421; 4488
CfrI	Y!GGCCR	6	1343; 1388; 2650; 2824; 3215; 3242
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	5	666; 1961; 3063; 3244; 3527
Cfr13I	G!GNCC	13	83; 276; 654; 835; 1078; 1170; 1275; 1851; 3260; 3705; 3751; 3809; 3842
Cfr42I	CCGC!GG	1	652
ChaI	GATC!	25	589; 613; 664; 705; 819; 969; 1053; 1229; 1405; 2585; 2589; 2608; 2919; 2997; 3078; 3087; 3165; 3541; 3557; 3916; 3928; 4006; 4014; 4025; 4100
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	6	702; 781; 2561; 4001; 4101; 4179
CjeI	!NNNNNNNNNACNNNNNNNTGG	8	64; 257; 716; 2228; 2323; 3515; 4065; 4620
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	8	98; 291; 750; 2262; 2357; 3549; 4099; 4654
CjeI	!NNNNNNNNCCANNNNNNGT	6	668; 747; 2527; 3967; 4067; 4145
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	4001; 4179
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 3515; 4114
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 3548; 4147
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	3968; 4146
Clal	AT!CGAT	1	2584
CpoI	CG!GWCCG	1	3260
CseI	GACGCNNNNN!	3	526; 3454; 3533
CseI	!NNNNNNNNNNCGCUTC	3	2077; 3972; 4550
CsiI	A!CCWGGT	1	2333
CspI	CG!GWCCG	1	3260
Csp6I	G!TAC	11	218; 243; 298; 331; 382; 539; 646; 729; 879; 1131; 3049
Csp45I	TT!CGAA	2	627; 3426
CspAI	A!CCGGT	1	666
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1322; 2024; 3633
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	23	301; 361; 678; 714; 720; 732; 810; 876; 956; 1159; 2171; 2311; 2383; 2474; 2615; 2960; 3146; 3177; 3203; 3559; 3943; 4663; 4714
CviJI	RG!CY	95	42; 84; 93; 277; 566; 618; 624; 655; 789; 836; 865; 872; 950; 1016; 1028; 1079; 1106; 1114; 1148; 1157; 1171; 1179; 1193; 1262; 1303; 1339; 1345; 1382; 1390; 1413; 1523; 1690; 1710; 1852; 1933; 1947; 1961; 2242; 2283; 2355; 2478; 2507; 2513; 2522; 2530; 2553; 2565; 2571; 2652; 2669; 2677; 2704; 2729; 2813; 2822; 2826; 2850; 2888; 2964; 2981; 3000; 3063; 3107; 3117; 3134; 3217; 3244; 3248; 3285; 3308; 3324; 3504; 3531; 3592; 3714; 3753; 3810; 3817; 3824; 3843; 3854; 4105; 4134; 4177; 4188; 4253; 4332; 4357; 4362; 4408; 4498; 4596; 4622; 4640; 4651
CviKI-1	RG!CY	95	42; 84; 93; 277; 566; 618; 624; 655; 789; 836; 865; 872; 950; 1016; 1028; 1079; 1106; 1114; 1148; 1157; 1171; 1179; 1193; 1262; 1303; 1339; 1345; 1382; 1390; 1413; 1523; 1690; 1710; 1852; 1933; 1947; 1961; 2242; 2283; 2355; 2478; 2507; 2513; 2522; 2530; 2553; 2565; 2571; 2652; 2669; 2677; 2704; 2729; 2813; 2822; 2826; 2850; 2888; 2964; 2981; 3000; 3063; 3107; 3117; 3134; 3217; 3244; 3248; 3285; 3308; 3324; 3504; 3531; 3592; 3714; 3753; 3810; 3817; 3824; 3843; 3854; 4105; 4134; 4177; 4188; 4253; 4332; 4357; 4362; 4408; 4498; 4596; 4622; 4640; 4651
CviQI	G!TAC	11	218; 243; 298; 331; 382; 539; 646; 729; 879; 1131; 3049
DdeI	C!TNAG	11	606; 944; 1150; 1241; 1383; 2224; 2526; 3407; 3856; 3979; 4388
DinI	GGC!GCC	1	2745
DpnI	GA!TC	25	587; 611; 662; 703; 817; 967; 1051; 1227; 1403; 2583; 2587; 2606; 2917; 2995; 3076; 3085; 3163; 3539; 3555; 3914; 3926; 4004; 4012; 4023; 4098



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FaiI	YA!TR	61	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 715; 721; 733; 811; 877; 957; 975; 1160; 1221; 1406; 1416; 1482; 1527; 1732; 2160; 2172; 2303; 2312; 2375; 2384; 2408; 2475; 2499; 2616; 2680; 2961; 2986; 3147; 3178; 3204; 3276; 3492; 3560; 3638; 3690; 3851; 3868; 3870; 3872; 3944; 4222; 4411; 4527; 4600; 4664; 4715
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	954; 3084
FalI	!NNNNNNNNAAGNNNNNCTT	2	922; 3052
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2895; 3427; 3536
FaqI	!NNNNNNNNNNNNNGTCCC	4	2260; 2332; 2396; 3691
FatI	!CATG	23	300; 360; 677; 713; 719; 731; 809; 875; 955; 1158; 2170; 2310; 2382; 2473; 2614; 2959; 3145; 3176; 3202; 3558; 3942; 4662; 4713
FauI	CCCGCNNNN!	10	93; 119; 286; 1143; 1245; 2066; 2421; 2442; 3638; 3770
FauI	!NNNNNNNGCGGG	7	644; 1180; 1997; 2867; 3404; 3542; 3689
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; 1854; 3263; 3708; 3754; 3812; 3845
Fnu4HI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1388; 1391; 1521; 2040; 2062; 2076; 2514; 2653; 2705; 2716; 2806; 2811; 2848; 2889; 2976; 2979; 2982; 3218; 3314; 3355; 3369; 3483; 3822; 3837; 4048; 4254; 4257; 4322; 4465; 4620
FokI	GGATGNNNNNNNNNN!	4	2611; 3068; 3093; 3547
FokI	!NNNNNNNNNNNNNCATCC	5	756; 844; 901; 1056; 2417
FriOI	GRGCI!C	5	620; 657; 1935; 3109; 3819
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2846
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1364; 1399; 1593; 2011; 2567; 3582; 3916; 4169
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; 1176; 1210; 1230; 1250; 1271; 1291; 1317; 1359; 1376; 1404; 1427; 1466; 1480; 1621; 1716; 1740; 1763; 1786; 1804; 1826; 1847; 1866; 1885; 1914; 1935; 1949; 1975; 2063; 2089; 2138; 2179; 2197; 2236; 2252; 2290; 2347; 2362; 2419; 2439; 2453; 2470; 2484; 2521; 2536; 2579; 2662; 2729; 2760; 2780; 2795; 2840; 2854; 2920; 2934; 2953; 2969; 3010; 3030; 3077; 3127; 3143; 3163; 3188; 3208; 3231; 3258; 3276; 3302; 3342; 3368; 3392; 3448; 3462; 3490; 3533; 3554; 3589; 3633; 3721; 3745; 3767; 3787; 3803; 3824; 3838; 3857; 3941; 3961; 3989; 4004; 4038; 4080; 4107; 4122; 4167; 4191; 4205; 4227; 4253; 4273; 4297; 4323; 4371; 4390; 4409; 4435; 4470; 4515; 4545; 4559; 4610; 4624; 4649; 4665; 4686; 4715
FspEI	!NNNNNNNNNNNNNNNGG	129	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; 1263; 1282; 1321; 1357; 1415; 1515; 1584; 1614; 1692; 1741; 1763; 1791; 1827; 1872; 1901; 1937; 1956; 1984; 2004; 2067; 2090; 2198; 2230; 2248; 2277; 2320; 2349; 2460; 2489; 2532; 2553; 2581; 2614; 2634; 2659; 2686; 2711; 2733; 2761; 2787; 2808; 2859; 2880; 2898; 2946; 2982; 3038; 3063; 3087; 3116; 3139; 3163; 3189; 3211; 3230; 3255; 3295; 3331; 3396; 3481; 3505; 3534; 3568; 3589; 3609; 3654; 3681; 3700; 3733; 3785; 3816; 3843; 3895; 3993; 4064; 4109; 4170; 4235; 4269; 4295; 4313; 4349; 4419; 4442; 4464; 4488; 4521; 4569; 4604; 4622; 4679
Fsp4HI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1388; 1391; 1521; 2040; 2062; 2076; 2514; 2653; 2705; 2716; 2806; 2811; 2848; 2889; 2976; 2979; 2982; 3218; 3314; 3355; 3369; 3483; 3822; 3837; 4048; 4254; 4257; 4322; 4465; 4620
GdiII	C!GGCCR	2	1388; 2650
GdiII	Y!GGCCG	4	1388; 2650; 3215; 3242

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GlaI	GC!GC	21	596; 2009; 2017; 2043; 2065; 2074; 2087; 2118; 2737; 2745; 2809; 2846; 3112; 3372; 3548; 3634; 4037; 4146; 4320; 4420; 4487
GluI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1388; 1391; 1521; 2040; 2062; 2076; 2514; 2653; 2705; 2716; 2806; 2811; 2848; 2889; 2976; 2979; 2982; 3218; 3314; 3355; 3369; 3483; 3822; 3837; 4048; 4254; 4257; 4322; 4465; 4620
GsaI	CCCAG!C	3	2291; 2363; 4362
GsaI	GCTGG!G	2	1110; 3252
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3584
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	1003; 3527
HaeI	WGG!CCW	8	1114; 1157; 1345; 2565; 2826; 4188; 4640; 4651
HaeII	RGCGC!Y	5	598; 2011; 2019; 2747; 4422
HaeIII	GG!CC	29	84; 277; 655; 836; 1079; 1114; 1148; 1157; 1171; 1303; 1345; 1390; 1710; 1852; 2507; 2513; 2522; 2565; 2652; 2826; 3217; 3244; 3753; 3810; 3843; 4188; 4622; 4640; 4651
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1419; 2940
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1385; 2906
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1418; 2939
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1387; 2908
HapII	C!CGG	21	601; 657; 667; 1259; 1278; 1962; 2649; 2726; 2748; 2776; 2907; 2997; 3064; 3245; 3520; 3528; 3620; 4094; 4284; 4310; 4457
HgaI	GACGCNNNNN!	3	526; 3454; 3533
HgaI	!NNNNNNNNNNNGCGTC	3	2077; 3972; 4550
HhaI	GCG!C	21	597; 2010; 2018; 2044; 2066; 2075; 2088; 2119; 2738; 2746; 2810; 2847; 3113; 3373; 3549; 3635; 4038; 4147; 4321; 4421; 4488
HinI	GR!CGYC	7	122; 175; 258; 444; 2744; 3446; 3525
Hin1II	CATG!	23	304; 364; 681; 717; 723; 735; 813; 879; 959; 1162; 2174; 2314; 2386; 2477; 2618; 2963; 3149; 3180; 3206; 3562; 3946; 4666; 4717
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	2	1418; 2939
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	1386; 2907; 2937
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	3	1418; 2939; 2969
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	1386; 2907
Hin6I	G!CGC	21	595; 2008; 2016; 2042; 2064; 2073; 2086; 2117; 2736; 2744; 2808; 2845; 3111; 3371; 3547; 3633; 4036; 4145; 4319; 4419; 4486
HinP1I	G!CGC	21	595; 2008; 2016; 2042; 2064; 2073; 2086; 2117; 2736; 2744; 2808; 2845; 3111; 3371; 3547; 3633; 4036; 4145; 4319; 4419; 4486
HincII	GTY!RAC	2	641; 1507
HindII	GTY!RAC	2	641; 1507
HindIII	A!AGCTT	1	622
Hinfi	G!ANTC	14	410; 604; 1292; 1395; 1787; 1809; 2219; 3229; 3363; 3415; 3473; 3510; 4292; 4688
HpaI	GTT!AAC	1	1507
HpaII	C!CGG	21	601; 657; 667; 1259; 1278; 1962; 2649; 2726; 2748; 2776; 2907; 2997; 3064; 3245; 3520; 3528; 3620; 4094; 4284; 4310; 4457
HphI	GGTGANNNNNNNN!	5	376; 697; 1071; 3815; 3931
HphI	!NNNNNNNTCACC	4	696; 960; 1861; 2922
Hpy8I	GTN!NAC	13	201; 539; 577; 641; 747; 767; 1062; 1275; 1507; 1791; 1808; 1863; 4350
Hpy99I	CGWCG!	9	645; 1324; 2834; 2862; 3156; 3171; 3448; 3833; 4566
Hpy166II	GTN!NAC	13	201; 539; 577; 641; 747; 767; 1062; 1275; 1507; 1791; 1808; 1863; 4350
Hpy188I	TCN!GA	13	585; 609; 774; 1918; 2527; 2711; 3055; 3408; 3509; 3988; 4122; 4475; 4553
Hpy188III	TC!NNGA	25	613; 1020; 1047; 1212; 1251; 1399; 2171; 2223; 2536; 2589; 2762; 3078; 3087; 3170; 3226; 3270; 3360; 3393; 3462; 3943; 4017; 4100; 4198; 4296; 4430
HpyAV	CCTTCNNNNNN!	5	855; 948; 3389; 3496; 4175
HpyAV	!NNNNNGAAGG	8	775; 1977; 2872; 3601; 3617; 3800; 4117; 4427

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 645; 728; 744; 1835; 3124; 3240; 3348; 3671; 4162; 4632; 4703
HpyCH4IV	A!CGT	16	122; 134; 175; 258; 339; 444; 1043; 1319; 1804; 1816; 1859; 1969; 2860; 3047; 3828; 3961
HpyCH4V	TG!CA	21	636; 717; 767; 1089; 1200; 1493; 1520; 1588; 2305; 2314; 2377; 2386; 2501; 2577; 2636; 2795; 2970; 2984; 4054; 4350; 4717
HpyF3I	C!TNAG	11	606; 944; 1150; 1241; 1383; 2224; 2526; 3407; 3856; 3979; 4388
HpyF10VI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 1154; 1168; 1971; 2001; 2028; 2070; 2311; 2383; 2434; 2513; 2735; 2819; 2842; 2981; 3104; 3187; 3454; 3641; 3845; 4044; 4616
Hsp92I	GR!CGYC	7	122; 175; 258; 444; 2744; 3446; 3525
Hsp92II	CATG!	23	304; 364; 681; 717; 723; 735; 813; 879; 959; 1162; 2174; 2314; 2386; 2477; 2618; 2963; 3149; 3180; 3206; 3562; 3946; 4666; 4717
HspAI	G!CGC	21	595; 2008; 2016; 2042; 2064; 2073; 2086; 2117; 2736; 2744; 2808; 2845; 3111; 3371; 3547; 3633; 4036; 4145; 4319; 4419; 4486
KasI	G!GCGCC	1	2743
KflI	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	1507
Kzo9I	!GATC	25	585; 609; 660; 701; 815; 965; 1049; 1225; 1401; 2581; 2585; 2604; 2915; 2993; 3074; 3083; 3161; 3537; 3553; 3912; 3924; 4002; 4010; 4021; 4096
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	3088; 3298
LpnI	RGC!GKY	5	596; 2009; 2017; 2745; 4420
LpnPI	CCDGNNNNNNNNNN!	62	102; 295; 614; 670; 817; 874; 922; 956; 1018; 1033; 1094; 1128; 1162; 1177; 1210; 1272; 1291; 1359; 1481; 1786; 1975; 2198; 2236; 2252; 2292; 2347; 2364; 2464; 2549; 2662; 2739; 2761; 2784; 2920; 2934; 2953; 3010; 3077; 3127; 3143; 3200; 3258; 3467; 3533; 3557; 3633; 3722; 3825; 3858; 4089; 4107; 4253; 4273; 4297; 4323; 4372; 4470; 4515; 4545; 4624; 4649; 4686
LpnPI	!NNNNNNNNNNNNCHGG	53	75; 268; 552; 586; 642; 847; 895; 991; 1092; 1244; 1263; 1357; 1827; 1947; 2004; 2067; 2265; 2277; 2337; 2349; 2581; 2626; 2669; 2711; 2733; 2761; 2808; 2870; 2892; 2982; 3049; 3072; 3116; 3211; 3230; 3255; 3404; 3505; 3548; 3605; 3695; 3798; 3825; 3843; 4079; 4116; 4269; 4295; 4435; 4453; 4488; 4569; 4622
Lsp1109I	GCAGCNNNNNNNN!	8	896; 1338; 1532; 2817; 2859; 3380; 3833; 4333
Lsp1109I	!NNNNNNNNNNNGCTGC	7	1015; 2026; 2691; 2875; 2968; 4034; 4240
LweI	GCATCNNNNN!	7	923; 1560; 2323; 2395; 3043; 3107; 3382
LweI	!NNNNNNNNNGATGC	8	357; 1076; 1115; 1244; 2702; 2957; 3173; 4565
MabI	A!CCWGGT	1	2333
MaeI	C!TAG	9	592; 1364; 1399; 1593; 2011; 2567; 3582; 3916; 4169
MaeII	A!CGT	16	122; 134; 175; 258; 339; 444; 1043; 1319; 1804; 1816; 1859; 1969; 2860; 3047; 3828; 3961
MaeIII	!GTNAC	12	61; 148; 497; 1532; 2033; 2045; 2864; 3170; 3860; 4126; 4242; 4305
MalI	GA!TC	25	587; 611; 662; 703; 817; 967; 1051; 1227; 1403; 2583; 2587; 2606; 2917; 2995; 3076; 3085; 3163; 3539; 3555; 3914; 3926; 4004; 4012; 4023; 4098
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2168; 3357
MbiI	GAG!CGG	3	1387; 2004; 3411
MboI	!GATC	25	585; 609; 660; 701; 815; 965; 1049; 1225; 1401; 2581; 2585; 2604; 2915; 2993; 3074; 3083; 3161; 3537; 3553; 3912; 3924; 4002; 4010; 4021; 4096
MboII	GAAGANNNNNNNN!	8	825; 991; 1104; 2000; 2228; 3105; 3315; 3934
MboII	!NNNNNNNTCTTC	4	3395; 3562; 3762; 4005

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1494
MflI	R!GATCY	11	585; 609; 660; 1225; 2915; 3161; 3553; 3912; 3924; 4010; 4021
MhII	GDGCH!C	14	620; 657; 742; 769; 802; 1379; 1935; 2690; 2783; 2857; 3047; 3109; 3819; 4352
MIsI	TGG!CCA	2	1345; 2826
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	1345; 2826
MlyI	GAGTCNNNNN!	2	1796; 2228
MlyI	!NNNNNGACTC	6	404; 598; 1389; 1803; 3409; 4286
Mly113I	GG!CGCC	1	2744
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1097; 1837
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4269; 4453
MnlI	CCTCNNNNNNN!	12	848; 1027; 1042; 1219; 1258; 1463; 2527; 3345; 3551; 3865; 4235; 4559
MnlI	!NNNNNGAGG	23	541; 681; 729; 768; 789; 822; 939; 956; 1104; 1147; 1293; 1423; 1888; 2219; 2497; 2540; 2555; 2595; 2659; 2795; 3152; 3582; 4485
Mph1103I	ATGCA!T	3	2316; 2388; 4719
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	1961; 3244; 3527
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	2	1345; 2826
MseI	T!TAA	16	7; 929; 1445; 1506; 1627; 1648; 1659; 1671; 1682; 1699; 1797; 2068; 3887; 3901; 3906; 3958
MslI	CAYNN!NNRTG	5	365; 679; 718; 1123; 3181
MspI	C!CGG	21	601; 657; 667; 1259; 1278; 1962; 2649; 2726; 2748; 2776; 2907; 2997; 3064; 3245; 3520; 3528; 3620; 4094; 4284; 4310; 4457
Msp20I	TGG!CCA	2	1345; 2826
MspA1I	CMG!CKG	8	651; 1138; 1145; 1382; 2242; 2850; 4079; 4324
MspCI	C!TTAAG	1	1626
MspJI	CNNRNNNNNNNNN!	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; 1175; 1192; 1209; 1222; 1236; 1249; 1263; 1284; 1297; 1316; 1335; 1358; 1371; 1384; 1404; 1417; 1432; 1451; 1468; 1481; 1522; 1536; 1549; 1567; 1605; 1620; 1638; 1679; 1703; 1723; 1741; 1762; 1785; 1817; 1832; 1854; 1872; 1885; 1906; 1923; 1936; 1949; 1965; 1978; 2008; 2023; 2048; 2066; 2079; 2094; 2118; 2132; 2156; 2181; 2197; 2235; 2251; 2290; 2304; 2318; 2346; 2362; 2376; 2390; 2419; 2432; 2453; 2462; 2484; 2514; 2530; 2548; 2578; 2601; 2625; 2649; 2668; 2696; 2722; 2738; 2751; 2774; 2788; 2808; 2821; 2835; 2854; 2868; 2881; 2897; 2912; 2925; 2941; 2956; 2972; 2997; 3016; 3032; 3045; 3058; 3076; 3090; 3104; 3120; 3142; 3158; 3177; 3199; 3215; 3238; 3257; 3271; 3287; 3301; 3321; 3337; 3350; 3372; 3405; 3419; 3439; 3452; 3466; 3520; 3533; 3556; 3569; 3588; 3605; 3632; 3668; 3701; 3720; 3745; 3766; 3793; 3806; 3823; 3837; 3852; 3868; 3928; 3953; 3969; 3991; 4004; 4018; 4049; 4063; 4088; 4106; 4121; 4134; 4153; 4166; 4181; 4210; 4229; 4247; 4272; 4287; 4306; 4322; 4341; 4359; 4375; 4389; 4408; 4435; 4458; 4480; 4499; 4514; 4527; 4544; 4564; 4591; 4604; 4623; 4648; 4671; 4685; 4698; 4715

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	197	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 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; 1345; 1370; 1396; 1425; 1454; 1496; 1579; 1614; 1641; 1664; 1693; 1737; 1759; 1791; 1827; 1844; 1865; 1902; 1922; 1939; 1956; 1991; 2009; 2027; 2044; 2068; 2090; 2117; 2145; 2171; 2209; 2230; 2247; 2265; 2288; 2309; 2337; 2360; 2381; 2399; 2420; 2437; 2460; 2484; 2504; 2522; 2544; 2575; 2597; 2623; 2642; 2659; 2687; 2706; 2725; 2743; 2761; 2782; 2804; 2828; 2861; 2881; 2899; 2920; 2946; 2973; 2990; 3007; 3024; 3050; 3072; 3094; 3112; 3132; 3151; 3173; 3211; 3231; 3255; 3275; 3295; 3322; 3346; 3379; 3398; 3426; 3448; 3477; 3505; 3530; 3549; 3568; 3589; 3606; 3623; 3654; 3681; 3701; 3724; 3744; 3781; 3798; 3817; 3843; 3863; 3902; 3929; 3948; 3966; 4003; 4021; 4062; 4080; 4106; 4123; 4155; 4184; 4212; 4233; 4256; 4275; 4296; 4314; 4331; 4349; 4375; 4396; 4416; 4436; 4454; 4475; 4501; 4518; 4537; 4556; 4585; 4604; 4622; 4641; 4659; 4677; 4700
MspR9I	CC!NGG	21	90; 283; 657; 658; 862; 910; 1006; 1259; 2280; 2335; 2352; 2748; 2908; 3131; 3521; 3710; 3813; 4285; 4503; 4516; 4637
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1494
MvaI	CC!WGG	14	90; 283; 862; 910; 1006; 2280; 2335; 2352; 3131; 3710; 3813; 4503; 4516; 4637
Mva1269I	GAATGCN!	1	1495
Mva1269I	G!CATTC	1	1588
MvnI	CG!CG	16	60; 651; 1393; 1668; 2044; 2064; 2088; 2119; 2810; 3111; 3549; 3633; 3696; 3765; 4038; 4619
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 1154; 1168; 1971; 2001; 2028; 2070; 2311; 2383; 2434; 2513; 2735; 2819; 2842; 2981; 3104; 3187; 3454; 3641; 3845; 4044; 4616
NaeI	GCC!GGC	3	1963; 3246; 3529
NarI	GG!CGCC	1	2744
NciI	CC!SGG	7	657; 658; 1259; 2748; 2908; 3521; 4285
NcoI	C!CATGG	4	360; 677; 2473; 3176
NdeI	CA!TATG	1	234
NdeII	!GATC	25	585; 609; 660; 701; 815; 965; 1049; 1225; 1401; 2581; 2585; 2604; 2915; 2993; 3074; 3083; 3161; 3537; 3553; 3912; 3924; 4002; 4010; 4021; 4096
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	806
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	842
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	1961; 3244; 3527
NheI	G!CTAGC	1	591
NlaIII	CATG!	23	304; 364; 681; 717; 723; 735; 813; 879; 959; 1162; 2174; 2314; 2386; 2477; 2618; 2963; 3149; 3180; 3206; 3562; 3946; 4666; 4717
NlaIV	GGN!NCC	19	467; 647; 655; 662; 741; 801; 1899; 1920; 1932; 2123; 2284; 2356; 2745; 2780; 3628; 3707; 3752; 4595; 4634
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1576; 1891; 3483
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 1066; 4555
Nli3877I	CYCGR!G	2	617; 660
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2533; 2969
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1082; 2498
NmeDI	RCCGGYNNNNNNN!	5	678; 1973; 3075; 3256; 3539
NmeDI	!NNNNNNNNNNNNRCCGGY	5	653; 1948; 3050; 3231; 3514
NmuCI	!GTSAC	3	2033; 2864; 3170
NotI	GC!GGCCGC	1	1388
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2846
NsiI	ATGCA!T	3	2316; 2388; 4719
NspI	RCATG!Y	5	717; 2314; 2386; 3149; 4666





Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2876
PspPI	G!GNCC	13	83; 276; 654; 835; 1078; 1170; 1275; 1851; 3260; 3705; 3751; 3809; 3842
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	2297; 2369; 3875
PspPRI	!NNNNNNNNNNNNNCTGRGG	4	930; 1358; 2210; 3405
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3845
PstI	CTGCA!G	1	638
PstNI	CAGNNN!CTG	3	1352; 3845; 4253
PsuI	R!GATCY	11	585; 609; 660; 1225; 2915; 3161; 3553; 3912; 3924; 4010; 4021
PsyI	GACN!NNGTC	1	2862
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1382; 2242; 2850
RcaI	T!CATGA	2	2170; 3942
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	3259
RceI	!NNNNNNNNNNNNNNNNNNNGTTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	1473
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNCTGCCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	11	219; 244; 299; 332; 383; 540; 647; 730; 880; 1132; 3050
RsaNI	G!TAC	11	218; 243; 298; 331; 382; 539; 646; 729; 879; 1131; 3049
RseI	CAYNN!NNRTG	5	365; 679; 718; 1123; 3181
RsrII	CG!GWCCG	1	3260
Rsr2I	CG!GWCCG	1	3260
SacI	GAGCT!C	1	620
SacII	CCGC!GG	1	652
SalI	G!TCGAC	1	639
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	3088; 3298
SaqAI	T!TAA	16	7; 929; 1445; 1506; 1627; 1648; 1659; 1671; 1682; 1699; 1797; 2068; 3887; 3901; 3906; 3958
SatI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1388; 1391; 1521; 2040; 2062; 2076; 2514; 2653; 2705; 2716; 2806; 2811; 2848; 2889; 2976; 2979; 2982; 3218; 3314; 3355; 3369; 3483; 3822; 3837; 4048; 4254; 4257; 4322; 4465; 4620
Sau96I	G!GNCC	13	83; 276; 654; 835; 1078; 1170; 1275; 1851; 3260; 3705; 3751; 3809; 3842
Sau3AI	!GATC	25	585; 609; 660; 701; 815; 965; 1049; 1225; 1401; 2581; 2585; 2604; 2915; 2993; 3074; 3083; 3161; 3537; 3553; 3912; 3924; 4002; 4010; 4021; 4096
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1796; 2228
SchI	!NNNNNGACTC	6	404; 598; 1389; 1803; 3409; 4286
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	21	90; 283; 657; 658; 862; 910; 1006; 1259; 2280; 2335; 2352; 2748; 2908; 3131; 3521; 3710; 3813; 4285; 4503; 4516; 4637
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	1116; 2322; 2394; 2563; 4505
SdeAI	!NNNNNNNNNNNNNNNNNNNCTYCTG	2	2899; 3384
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SdeOSI	!NNNNNNNNNTCAYNNNGTC	0	
SdeOSI	TCAYNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	14	620; 657; 742; 769; 802; 1379; 1935; 2690; 2783; 2857; 3047; 3109; 3819; 4352
SelI	!CGCG	16	58; 649; 1391; 1666; 2042; 2062; 2086; 2117; 2808; 3109; 3547; 3631; 3694; 3763; 4036; 4617
SetI	ASST!	62	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 824; 874; 895; 1046; 1181; 1199; 1250; 1318; 1322; 1361; 1384; 1434; 1455; 1464; 1476; 1525; 1692; 1807; 1819; 1862; 1899; 1949; 1972; 2096; 2244; 2339; 2532; 2645; 2773; 2852; 2863; 2935; 3006; 3050; 3310; 3456; 3500; 3831; 3862; 3921; 3964; 4107; 4128; 4227; 4364; 4379; 4398; 4410; 4454; 4500; 4551
SexAI	A!CCWGGT	1	2333
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	923; 1560; 2323; 2395; 3043; 3107; 3382
SfaNI	!NNNNNNNNNGATGC	8	357; 1076; 1115; 1244; 2702; 2957; 3173; 4565
SfcI	C!TRYAG	4	634; 2079; 4206; 4397
SfiI	GGCCNNNN!NGGCC	2	1154; 2519
SfoI	GGC!GCC	1	2745
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	1	652
SfuI	TT!CGAA	2	627; 3426
SgeI	CNNGNNNNNNNN!	188	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; 1358; 1371; 1384; 1404; 1451; 1480; 1522; 1605; 1679; 1763; 1785; 1817; 1854; 1872; 1891; 1906; 1948; 1965; 1982; 2017; 2031; 2048; 2070; 2094; 2118; 2183; 2197; 2235; 2251; 2291; 2304; 2323; 2346; 2363; 2376; 2395; 2425; 2446; 2463; 2486; 2521; 2548; 2579; 2601; 2627; 2649; 2668; 2696; 2732; 2751; 2774; 2788; 2808; 2821; 2835; 2854; 2868; 2887; 2919; 2933; 2946; 2972; 3003; 3016; 3033; 3050; 3064; 3081; 3099; 3114; 3142; 3158; 3177; 3199; 3215; 3238; 3257; 3282; 3301; 3321; 3348; 3372; 3405; 3424; 3452; 3466; 3532; 3556; 3571; 3594; 3615; 3632; 3680; 3707; 3721; 3750; 3774; 3807; 3824; 3844; 3857; 3870; 3928; 3955; 3974; 4004; 4029; 4049; 4063; 4088; 4106; 4143; 4181; 4210; 4238; 4252; 4272; 4287; 4308; 4322; 4341; 4359; 4375; 4415; 4435; 4462; 4480; 4501; 4514; 4527; 4544; 4568; 4591; 4623; 4648; 4675; 4697
SgeI	!NNNNNNNNNNNCNNG	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; 1332; 1350; 1378; 1425; 1454; 1496; 1579; 1653; 1737; 1759; 1791; 1828; 1846; 1865; 1922; 1939; 1956; 1991; 2009; 2029; 2049; 2068; 2092; 2157; 2209; 2265; 2297; 2320; 2337; 2369; 2399; 2420; 2437; 2460; 2495; 2522; 2553; 2575; 2601; 2623; 2642; 2670; 2706; 2725; 2748; 2769; 2787; 2804; 2828; 2861; 2893; 2920; 2946; 2977; 3007; 3024; 3050; 3073; 3094; 3116; 3136; 3156; 3173; 3212; 3231; 3256; 3275; 3295; 3322; 3346; 3379; 3398; 3426; 3448; 3506; 3530; 3549; 3568; 3589; 3606; 3654; 3681; 3701; 3724; 3748; 3781; 3798; 3818; 3844; 3902; 3929; 3948; 3978; 4003; 4023; 4062; 4080; 4117; 4155; 4184; 4212; 4233; 4261; 4282; 4315; 4333; 4389; 4409; 4436; 4454; 4475; 4501; 4518; 4542; 4565; 4597; 4622; 4649; 4671; 4700
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	652
SgrDI	CG!TCGACG	0	
SgsI	GG!CGGCC	0	
SimI	GG!GTC	4	27; 1891; 3678; 4471



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TauI	GCSG!C	19	836; 1148; 1390; 1393; 2064; 2078; 2516; 2655; 2718; 2813; 2978; 2981; 3220; 3316; 3357; 3485; 3839; 4467; 4622
TfiI	G!AWTC	6	1292; 3229; 3363; 3473; 3510; 4688
TliI	C!TCGAG	1	613
TruI	T!TAA	16	7; 929; 1445; 1506; 1627; 1648; 1659; 1671; 1682; 1699; 1797; 2068; 3887; 3901; 3906; 3958
Tru9I	T!TAA	16	7; 929; 1445; 1506; 1627; 1648; 1659; 1671; 1682; 1699; 1797; 2068; 3887; 3901; 3906; 3958
TscAI	CASTGNN!	6	1207; 1590; 2873; 3983; 4254; 4267
TseI	G!CWGC	16	884; 1028; 1326; 1520; 2039; 2704; 2805; 2847; 2888; 2981; 3368; 3821; 4047; 4253; 4256; 4321
TsoI	TARCCANNNNNNNNNNN!	2	1716; 2063
TsoI	!NNNNNNNNNTGGYTA	3	853; 1521; 3273
Tsp45I	!GTSAC	3	2033; 2864; 3170
Tsp509I	!AATT	11	18; 629; 1494; 1558; 1636; 1662; 1673; 2320; 2392; 2484; 3902
TspDTI	ATGAANNNNNNNNNNN!	5	736; 826; 1502; 2803; 3507
TspDTI	!NNNNNNNNNTTCAT	5	26; 864; 3221; 3677; 3884
TspEI	!AATT	11	18; 629; 1494; 1558; 1636; 1662; 1673; 2320; 2392; 2484; 3902
TspGWI	ACGGANNNNNNNNNNN!	1	3619
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	6	1207; 1590; 2873; 3983; 4254; 4267
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2862
Tth111II	CAARCANNNNNNNNNNN!	1	4071
Tth111III	!NNNNNNNNNTGYTTG	3	3179; 4039; 4078
UnbI	!GGNCC	13	82; 275; 653; 834; 1077; 1169; 1274; 1850; 3259; 3704; 3750; 3808; 3841
Van91I	CCANNNNN!NTGG	0	
Vha464I	C!TTAAG	1	1626
VneI	G!TGCAC	2	765; 4348
VpaK11AI	!GGWCC	3	1274; 3259; 3704
VpaK11BI	G!GWCC	3	1275; 3260; 3705
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	629; 1558; 1662; 1673
XbaI	T!CTAGA	1	1398
XceI	RCATG!Y	5	717; 2314; 2386; 3149; 4666
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	11	585; 609; 660; 1225; 2915; 3161; 3553; 3912; 3924; 4010; 4021
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	2566; 3581
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	9	592; 1364; 1399; 1593; 2011; 2567; 3582; 3916; 4169
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2316; 2388; 4719