

pTagYFP-mito vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1566; 1771
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1854; 2810; 4599
AatI	AGG!CCT	1	2604
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1156
AccII	CG!CG	20	60; 662; 664; 796; 1033; 1351; 1432; 1707; 2083; 2103; 2127; 2158; 2849; 3150; 3588; 3672; 3735; 3804; 4077; 4658
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2885
Acc36I	ACCTGCNNNN!	2	3051; 3501
Acc36I	!NNNNNNNNGCAGGT	1	2670
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	4	465; 1936; 2782; 2817
AccB7I	CCANNNN!NTGG	3	680; 1127; 1403
AccBSI	CCG!CTC	2	2207; 3396
AccBSI	GAG!CGG	2	2043; 3450
AceIII	CAGCTCNNNNNNN!	1	1739
AceIII	!NNNNNNNNNNGAGCTG	5	552; 711; 744; 1065; 1398
AciI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 612; 660; 923; 1031; 1070; 1208; 1337; 1349; 1418; 1430; 2098; 2101; 2115; 2205; 2453; 2465; 2474; 2486; 2496; 2507; 2553; 2692; 2755; 3257; 3302; 3368; 3394; 3519; 3522; 3670; 3802; 4109; 4253; 4749
AciI	G!CGG	30	370; 403; 528; 623; 647; 796; 1033; 1225; 1228; 1426; 2043; 2070; 2158; 2268; 2849; 2913; 3014; 3017; 3297; 3352; 3450; 3588; 3735; 3875; 4118; 4363; 4484; 4503; 4630; 4658
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	8	694; 2651; 2962; 3208; 3600; 3959; 4057; 4143
AclWI	!NNNNNGATCC	8	580; 665; 681; 1283; 3027; 3571; 3958; 4055
AcoI	Y!GGCCR	7	776; 1240; 1427; 2689; 2863; 3254; 3281
AcsI	R!AATTY	3	1597; 1701; 1712
AcuI	CTGAAGNNNNNNNNNNNNNNN!	3	1101; 2929; 3361
AcuI	!NNNNNNNNNNNNNCTTCAG	1	4159
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 609; 814; 2783; 3485; 3564
AdeI	CACNNN!GTG	2	1361; 1899
AfaI	GT!AC	11	219; 244; 299; 332; 383; 540; 910; 1023; 1134; 1416; 3089
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	23	49; 680; 874; 1037; 1127; 1172; 1343; 1403; 1795; 2121; 2513; 2764; 3308; 3589; 3621; 3753; 3788; 3838; 3870; 4223; 4502; 4668; 4686
AfII	C!TTAAG	1	1665
AfIII	A!CRYGT	1	4701
AgeI	A!CCGGT	1	692
AgsI	TTS!AA	9	959; 1097; 1142; 1202; 2194; 2238; 2248; 2661; 4237
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	770
Ajni	!CCWGG	19	88; 281; 873; 883; 985; 1060; 1114; 1186; 1267; 1366; 2317; 2372; 2389; 3168; 3747; 3850; 4540; 4553; 4674
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

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AleI	CACNN!NNGTG	2	885; 1062
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	2	2357; 2429
AlfI	!NNNNNNNNNNGCANNNNNTGC	2	2323; 2395
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	1	1865
AloI	!NNNNNNNGGANNNNNNGTTC	1	825
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	1	857
AloI	!NNNNNNNGAACNNNNNTCC	1	1833
AluI	AG!CT	22	566; 725; 758; 830; 863; 1079; 1127; 1138; 1238; 1312; 1412; 1562; 1729; 1986; 2281; 2569; 2889; 3347; 4144; 4401; 4447; 4537
AluBI	AG!CT	22	566; 725; 758; 830; 863; 1079; 1127; 1138; 1238; 1312; 1412; 1562; 1729; 1986; 2281; 2569; 2889; 3347; 4144; 4401; 4447; 4537
AlwI	GGATCNNNN!	8	694; 2651; 2962; 3208; 3600; 3959; 4057; 4143
AlwI	!NNNNNGATCC	8	580; 665; 681; 1283; 3027; 3571; 3958; 4055
Alw21I	GWGCW!C	5	775; 1366; 2896; 3086; 4391
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	4	2207; 2625; 3644; 3772
Alw44I	G!TGCAC	2	771; 4387
AlwNI	CAGNNN!CTG	3	1384; 3884; 4292
Ama87I	C!YCGRG	1	972
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	0	
ApaI	GGGC!C	0	
ApaBI	GCANNNNN!TGC	3	2351; 2423; 3885
ApaLI	G!TGCAC	2	771; 4387
ApeKI	G!CWGC	19	614; 617; 620; 863; 1235; 1387; 1559; 2078; 2743; 2844; 2886; 2927; 3020; 3407; 3860; 4086; 4292; 4295; 4360
ApoI	R!AATTY	3	1597; 1701; 1712
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	3298
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	3092; 3745; 4583
AquI	GCCGNACNNNNNNNNNNNNNNNNNN!	1	3182
AquI	!NNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	2	745; 2611
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	3353
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNCCRAANNNNNGTTC	0	
ArsI	CRAANNNNNGTTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	23	586; 671; 687; 752; 836; 1289; 1441; 2621; 2625; 2644; 2955; 3033; 3114; 3123; 3201; 3577; 3593; 3952; 3964; 4042; 4050; 4061; 4136
AsiGI	A!CCGGT	1	692
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2901
Asp700I	GAANN!NNTTC	1	951
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	2605; 3620
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	26	664; 666; 796; 966; 994; 1383; 2049; 2057; 2083; 2105; 2114; 2127; 2158; 2777; 2785; 2849; 2886; 3152; 3412; 3588; 3674; 4077; 4186; 4360; 4460; 4527
AspS9I	G!GNCC	14	83; 276; 641; 877; 1118; 1278; 1334; 1346; 1890; 3299; 3744; 3790; 3848; 3881
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	3465
AsuC2I	CC!SGG	5	644; 2787; 2947; 3560; 4324
AsuHPI	GGTGANNNNNNNN!	7	376; 899; 1052; 1076; 1205; 3854; 3970
AsuHPI	!NNNNNNNTCACC	4	890; 1154; 1900; 2961
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	1	972
AvaII	G!GWCC	3	1334; 3299; 3744

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AviII	TGC!GCA	1	2885
AvrII	C!CTAGG	2	2605; 3620
AxyI	CC!TNAGG	2	2263; 3895
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	7	745; 775; 874; 1267; 2729; 2822; 4391
BalI	TGG!CCA	1	2865
BamHI	G!GATCC	1	686
BanI	G!GYRCC	4	465; 1936; 2782; 2817
BanII	GRGCY!C	3	1974; 3148; 3858
BanIII	AT!CGAT	1	2623
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	3	680; 1127; 1403
BauI	C!ACGAG	2	3501; 4528
BauI	C!TCGTG	1	3375
BbeI	GGCG!C	1	2786
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	2353; 2425; 3188
BbvI	GCAGCNNNNNN!	8	1247; 1399; 1571; 2856; 2898; 3419; 3872; 4372
BbvI	!NNNNNNNNNNNGCTGC	8	601; 850; 2065; 2730; 2914; 3007; 4073; 4279
Bbv12I	GWGCW!C	5	775; 1366; 2896; 3086; 4391
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	1005; 1302; 1913; 2477; 3003; 3505
BccI	!NNNNNGATGG	3	1881; 2661; 3089
BceAI	ACGGCNNNNNNNNNN!	10	779; 839; 920; 1031; 1121; 1199; 1292; 1415; 3209; 3696
BceAI	!NNNNNNNNNNNGCCGT	3	1924; 2742; 4201
BceFI	ACGGCNNNNNNNNNN!	10	779; 839; 920; 1031; 1121; 1199; 1292; 1415; 3209; 3696
BceFI	!NNNNNNNNNNNGCCGT	3	1925; 2743; 4202
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNN!	3	2212; 3002; 4503
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	5	644; 2787; 2947; 3560; 4324
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNN!	3	912; 1311; 4636
BdaI	!NNNNNNNNNTGANNNNNNTCA	3	878; 1277; 4602
BfaI	C!TAG	8	592; 1438; 1632; 2050; 2606; 3621; 3955; 4208
BfiI	ACTGGGNNNN!	1	2732
BfiI	!NNNCCCAGT	3	289; 648; 2484
BfmI	C!TRYAG	4	1385; 2118; 4245; 4436
BfoI	RGCGC!Y	6	967; 1384; 2050; 2058; 2786; 4461
BfrI	C!TTAAG	1	1665
BfuI	GTATCCNNNN!	3	2212; 3002; 4503
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3051; 3501
BfuAI	!NNNNNNNGCAGGT	1	2670
BfuCI	!GATC	23	585; 670; 686; 751; 835; 1288; 1440; 2620; 2624; 2643; 2954; 3032; 3113; 3122; 3200; 3576; 3592; 3951; 3963; 4041; 4049; 4060; 4135
BglI	GCCNNNN!NGGC	4	90; 212; 283; 2558
BglII	A!GATCT	0	

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BisI	GC!NGC	41	612; 615; 618; 621; 648; 660; 797; 864; 1034; 1226; 1229; 1236; 1388; 1430; 1560; 2079; 2101; 2115; 2553; 2692; 2744; 2755; 2845; 2850; 2887; 2928; 3015; 3021; 3257; 3353; 3394; 3408; 3522; 3861; 3876; 4087; 4293; 4296; 4361; 4504; 4659
BlnI	C!CTAGG	2	2605; 3620
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	41	613; 616; 619; 622; 649; 661; 798; 865; 1035; 1227; 1230; 1237; 1389; 1431; 1561; 2080; 2102; 2116; 2554; 2693; 2745; 2756; 2846; 2851; 2888; 2929; 3016; 3022; 3258; 3354; 3395; 3409; 3523; 3862; 3877; 4088; 4294; 4297; 4362; 4505; 4660
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	1334; 3299; 3744
Bme1390I	CC!NGG	24	90; 283; 644; 875; 885; 987; 1062; 1116; 1188; 1269; 1368; 2319; 2374; 2391; 2787; 2947; 3170; 3560; 3749; 3852; 4324; 4542; 4555; 4676
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	1	972
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	770
BmgT120I	GG!NCC	14	84; 277; 642; 878; 1119; 1279; 1335; 1347; 1891; 3300; 3745; 3791; 3849; 3882
BmiI	GGN!NCC	17	467; 651; 688; 1280; 1938; 1959; 1971; 2162; 2323; 2395; 2784; 2819; 3667; 3746; 3791; 4634; 4673
BmrI	ACTGGGNNNNN!	1	2732
BmrI	!NNNNCCCAGT	3	289; 648; 2484
BmrFI	CC!NGG	24	90; 283; 644; 875; 885; 987; 1062; 1116; 1188; 1269; 1368; 2319; 2374; 2391; 2787; 2947; 3170; 3560; 3749; 3852; 4324; 4542; 4555; 4676
BmsI	GCATCNNNNN!	8	745; 1081; 1599; 2362; 2434; 3082; 3146; 3421
BmsI	!NNNNNNNNNGATGC	5	357; 2741; 2996; 3212; 4604
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2732
BmuI	!NNNNCCCAGT	3	289; 648; 2484
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2572; 3471
BpI	!NNNNNNNNGAGNNNNNCTC	2	2540; 3439
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	5	852; 1149; 1209; 1389; 3623
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3566
Bpu10I	CC!TNAGC	1	1308
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	3465
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4077; 4616
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	2	3159; 4318
BpuMI	CC!SGG	5	644; 2787; 2947; 3560; 4324
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3772
Bsa29I	AT!CGAT	1	2623
BsaAI	YAC!GTR	3	340; 1899; 3087
BsaBI	GATNN!NNATC	3	1293; 1445; 2642
BsaHI	GR!CGYC	9	122; 175; 258; 444; 609; 814; 2783; 3485; 3564
BsaJI	C!CNNGG	25	360; 703; 873; 883; 973; 1031; 1060; 1115; 1267; 1268; 1397; 2317; 2389; 2512; 2547; 2556; 2605; 2946; 3215; 3620; 3747; 3748; 3850; 3851; 4541
BsaMI	GAATGCN!	1	1534
BsaMI	G!CATTC	1	1627
BsaWI	W!CCGGW	5	692; 2814; 3658; 4348; 4495
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1863
BsaXI	!NNNNNNNGGAGNNNNNNGT	1	825
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	855
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1833

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	1784; 3691
Bsc4I	CCNNNNN!NNGG	23	49; 680; 874; 1037; 1127; 1172; 1343; 1403; 1795; 2121; 2513; 2764; 3308; 3589; 3621; 3753; 3788; 3838; 3870; 4223; 4502; 4668; 4686
BscAI	GCATCNNNN!	8	744; 1080; 1598; 2361; 2433; 3081; 3145; 3420
BscAI	!NNNNNGATGC	5	360; 2744; 2999; 3215; 4607
BseI	ACTGGN!	3	2727; 2928; 4174
BseI	C!CAGT	6	295; 654; 1812; 2490; 4286; 4299
Bse8I	GATNN!NNATC	3	1293; 1445; 2642
Bse2II	CC!TNAGG	2	2263; 3895
Bse118I	R!CCGGY	7	692; 732; 855; 2000; 3102; 3283; 3566
BseAI	T!CCGGA	0	
BseBI	CC!WGG	19	90; 283; 875; 885; 987; 1062; 1116; 1188; 1269; 1368; 2319; 2374; 2391; 3170; 3749; 3852; 4542; 4555; 4676
BseCI	AT!CGAT	1	2623
BseDI	C!CNNGG	25	360; 703; 873; 883; 973; 1031; 1060; 1115; 1267; 1268; 1397; 2317; 2389; 2512; 2547; 2556; 2605; 2946; 3215; 3620; 3747; 3748; 3850; 3851; 4541
Bse3DI	GCAATGNN!	1	3016
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2643; 3100; 3125; 3579
BseGI	!CATCC	4	982; 997; 1111; 2469
BseJI	GATNN!NNATC	3	1293; 1445; 2642
BseLI	CCNNNNN!NNGG	23	49; 680; 874; 1037; 1127; 1172; 1343; 1403; 1795; 2121; 2513; 2764; 3308; 3589; 3621; 3753; 3788; 3838; 3870; 4223; 4502; 4668; 4686
BseMI	GCAATGNN!	1	3016
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	3909
BseMII	!NNNNNNNNNCTGAG	6	1299; 2254; 2556; 3437; 4009; 4418
BseNI	ACTGGN!	3	2727; 2928; 4174
BseNI	C!CAGT	6	295; 654; 1812; 2490; 4286; 4299
BsePI	G!CGCGC	1	662
BseRI	GAGGAGNNNNNNNNNN!	2	735; 2601
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	7	745; 775; 874; 1267; 2729; 2822; 4391
BseXI	GCAGCNNNNNNNN!	8	1247; 1399; 1571; 2856; 2898; 3419; 3872; 4372
BseXI	!NNNNNNNNNNNGCTGC	8	601; 850; 2065; 2730; 2914; 3007; 4073; 4279
BseX3I	C!GGCCG	2	1427; 2689
BseYI	C!CCAGC	3	2326; 2398; 4397
BseYI	G!CTGGG	1	3287
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1254
BsgI	!NNNNNNNNNNNNNCTGCAC	1	833
Bsh1236I	CG!CG	20	60; 662; 664; 796; 1033; 1351; 1432; 1707; 2083; 2103; 2127; 2158; 2849; 3150; 3588; 3672; 3735; 3804; 4077; 4658
Bsh1285I	CGRY!CG	4	697; 1430; 2692; 4367
BshFI	GG!CC	29	84; 277; 642; 778; 878; 1120; 1176; 1186; 1242; 1279; 1347; 1429; 1749; 1891; 2546; 2552; 2561; 2604; 2691; 2865; 3256; 3283; 3792; 3849; 3882; 4227; 4661; 4679; 4690
BshNI	G!GYRCC	4	465; 1936; 2782; 2817
BshTI	A!CCGGT	1	692
BshVI	AT!CGAT	1	2623
BsiEI	CGRY!CG	4	697; 1430; 2692; 4367
BsiHKAI	GWGCW!C	5	775; 1366; 2896; 3086; 4391
BsiHKCI	C!YCGRG	1	972
BsiSI	C!CGG	20	644; 693; 733; 856; 2001; 2688; 2765; 2787; 2815; 2946; 3036; 3103; 3284; 3559; 3567; 3659; 4133; 4323; 4349; 4496
BsiWI	C!GTACG	0	
BslI	CCNNNNN!NNGG	23	49; 680; 874; 1037; 1127; 1172; 1343; 1403; 1795; 2121; 2513; 2764; 3308; 3589; 3621; 3753; 3788; 3838; 3870; 4223; 4502; 4668; 4686
BslFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2934; 3466; 3575
BslFI	!NNNNNNNNNNNNNGTCCC	4	2299; 2371; 2435; 3730
BsmI	GAATGCN!	1	1534
BsmI	G!CATTC	1	1627

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BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	4	2207; 2625; 3644; 3772
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2934; 3466; 3575
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2299; 2371; 2435; 3730
BsnI	GG!CC	29	84; 277; 642; 778; 878; 1120; 1176; 1186; 1242; 1279; 1347; 1429; 1749; 1891; 2546; 2552; 2561; 2604; 2691; 2865; 3256; 3283; 3792; 3849; 3882; 4227; 4661; 4679; 4690
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3772
BsoBI	C!YCGRG	1	972
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 703; 2512; 3215
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3586
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	4007; 4185
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	4039; 4217
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	257; 3554
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	3465
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	23	585; 670; 686; 751; 835; 1288; 1440; 2620; 2624; 2643; 2954; 3032; 3113; 3122; 3200; 3576; 3592; 3951; 3963; 4041; 4049; 4060; 4135
Bsp1286I	GDGCH!C	13	745; 775; 874; 1267; 1366; 1974; 2729; 2822; 2896; 3086; 3148; 3858; 4391
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 612; 660; 923; 1031; 1070; 1208; 1337; 1349; 1418; 1430; 2098; 2101; 2115; 2205; 2453; 2465; 2474; 2486; 2496; 2507; 2553; 2692; 2755; 3257; 3302; 3368; 3394; 3519; 3522; 3670; 3802; 4109; 4253; 4749
BspACI	G!CGG	30	370; 403; 528; 623; 647; 796; 1033; 1225; 1228; 1426; 2043; 2070; 2158; 2268; 2849; 2913; 3014; 3017; 3297; 3352; 3450; 3588; 3735; 3875; 4118; 4363; 4484; 4503; 4630; 4658
BspCNI	CTCAGNNNNNNNN!	1	3908
BspCNI	!NNNNNNNCTGAG	6	1300; 2255; 2557; 3438; 4010; 4419
BspDI	AT!CGAT	1	2623
BspD6I	GACTCNNNN!	5	418; 1442; 1856; 3462; 4339
BspD6I	!NNNNNGAGTC	3	1364; 1819; 2251
BspEI	T!CCGGA	0	
BspFNI	CG!CG	20	60; 662; 664; 796; 1033; 1351; 1432; 1707; 2083; 2103; 2127; 2158; 2849; 3150; 3588; 3672; 3735; 3804; 4077; 4658
BspHI	T!CATGA	2	2209; 3981
BspLI	GGN!NCC	17	467; 651; 688; 1280; 1938; 1959; 1971; 2162; 2323; 2395; 2784; 2819; 3667; 3746; 3791; 4634; 4673
BspMI	ACCTGCNNNN!	2	3051; 3501
BspMI	!NNNNNNNGCAGGT	1	2670
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	694; 2651; 2962; 3208; 3600; 3959; 4057; 4143
BspPI	!NNNNNGATCC	8	580; 665; 681; 1283; 3027; 3571; 3958; 4055
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	2	3127; 3337
BspTI	C!TTAAG	1	1665
BspT104I	TT!CGAA	1	3465
BspT107I	G!GYRCC	4	465; 1936; 2782; 2817
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3772
BsrI	ACTGGN!	3	2727; 2928; 4174
BsrI	C!CAGT	6	295; 654; 1812; 2490; 4286; 4299
BsrBI	CCG!CTC	2	2207; 3396
BsrBI	GAG!CGG	2	2043; 3450
BsrDI	GCAATGNN!	1	3016
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	692; 732; 855; 2000; 3102; 3283; 3566
BsrGI	T!GTACA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	ACTGGN!	3	2727; 2928; 4174
BsrSI	C!CAGT	6	295; 654; 1812; 2490; 4286; 4299
BssAI	R!CCGGY	7	692; 732; 855; 2000; 3102; 3283; 3566
BssECI	C!CNNGG	25	360; 703; 873; 883; 973; 1031; 1060; 1115; 1267; 1268; 1397; 2317; 2389; 2512; 2547; 2556; 2605; 2946; 3215; 3620; 3747; 3748; 3850; 3851; 4541
BssHII	G!CGCGC	1	662
BssKI	!CCNNGG	24	88; 281; 642; 873; 883; 985; 1060; 1114; 1186; 1267; 1366; 2317; 2372; 2389; 2785; 2945; 3168; 3558; 3747; 3850; 4322; 4540; 4553; 4674
BssMI	!GATC	23	585; 670; 686; 751; 835; 1288; 1440; 2620; 2624; 2643; 2954; 3032; 3113; 3122; 3200; 3576; 3592; 3951; 3963; 4041; 4049; 4060; 4135
BssNI	GR!CGYC	9	122; 175; 258; 444; 609; 814; 2783; 3485; 3564
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	3501; 4528
BssSI	C!TCGTG	1	3375
BssTII	C!CWWGG	6	360; 703; 2512; 2605; 3215; 3620
Bst6I	CTCTCN!	1	1008
Bst6I	!NNNNGAAGAG	3	2250; 3127; 3337
Bst98I	C!TTAAG	1	1665
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 609; 814; 2783; 3485; 3564
BstAFI	C!TTAAG	1	1665
BstAPI	GCANNNN!NTGC	3	2350; 2422; 3884
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	1	3465
Bst2BI	C!ACGAG	2	3501; 4528
Bst2BI	C!TCGTG	1	3375
BstBAI	YAC!GTR	3	340; 1899; 3087
Bst4CI	ACN!GT	14	76; 198; 269; 543; 581; 913; 1874; 3163; 3279; 3387; 3710; 4201; 4671; 4742
BstC8I	GCN!NGC	37	86; 279; 593; 664; 734; 792; 828; 861; 923; 1233; 1240; 1349; 1385; 2002; 2045; 2059; 2332; 2351; 2404; 2423; 2677; 2863; 3082; 3148; 3154; 3186; 3227; 3231; 3285; 3568; 3755; 3802; 3858; 3880; 4091; 4651; 4688
BstDEI	C!TNAG	7	1308; 2263; 2565; 3446; 3895; 4018; 4427
BstDSI	C!CRYGG	6	360; 703; 1031; 1397; 2512; 3215
BstEII	G!GTNACC	1	887
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2643; 3100; 3125; 3579
BstF5I	!CATCC	4	982; 997; 1111; 2469
BstFNI	CG!CG	20	60; 662; 664; 796; 1033; 1351; 1432; 1707; 2083; 2103; 2127; 2158; 2849; 3150; 3588; 3672; 3735; 3804; 4077; 4658
BstH2I	RGCGC!Y	6	967; 1384; 2050; 2058; 2786; 4461
BstHHI	GCG!C	26	664; 666; 796; 966; 994; 1383; 2049; 2057; 2083; 2105; 2114; 2127; 2158; 2777; 2785; 2849; 2886; 3152; 3412; 3588; 3674; 4077; 4186; 4360; 4460; 4527
BstKTI	GAT!C	23	588; 673; 689; 754; 838; 1291; 1443; 2623; 2627; 2646; 2957; 3035; 3116; 3125; 3203; 3579; 3595; 3954; 3966; 4044; 4052; 4063; 4138
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	4	2207; 2625; 3644; 3772
BstMBI	!GATC	23	585; 670; 686; 751; 835; 1288; 1440; 2620; 2624; 2643; 2954; 3032; 3113; 3122; 3200; 3576; 3592; 3951; 3963; 4041; 4049; 4060; 4135
BstMCI	CGRY!CG	4	697; 1430; 2692; 4367
BstMWI	GCNNNNN!NNGC	37	90; 212; 244; 283; 376; 400; 617; 634; 656; 755; 796; 856; 869; 913; 1144; 1336; 1387; 1426; 2010; 2040; 2067; 2109; 2350; 2422; 2473; 2552; 2774; 2858; 2881; 3020; 3143; 3226; 3493; 3680; 3884; 4083; 4655
BstNI	CC!WGG	19	90; 283; 875; 885; 987; 1062; 1116; 1188; 1269; 1368; 2319; 2374; 2391; 3170; 3749; 3852; 4542; 4555; 4676
BstNSI	RCATG!Y	5	599; 2353; 2425; 3188; 4705
BstOI	CC!WGG	19	90; 283; 875; 885; 987; 1062; 1116; 1188; 1269; 1368; 2319; 2374; 2391; 3170; 3749; 3852; 4542; 4555; 4676
BstPI	G!GTNACC	1	887

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	24	88; 281; 642; 873; 883; 985; 1060; 1114; 1186; 1267; 1366; 2317; 2372; 2389; 2785; 2945; 3168; 3558; 3747; 3850; 4322; 4540; 4553; 4674
BstSFI	C!TRYAG	4	1385; 2118; 4245; 4436
BstSLI	GKGCMI!C	7	745; 775; 874; 1267; 2729; 2822; 4391
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	20	60; 662; 664; 796; 1033; 1351; 1432; 1707; 2083; 2103; 2127; 2158; 2849; 3150; 3588; 3672; 3735; 3804; 4077; 4658
Bst2UI	CC!WGG	19	90; 283; 875; 885; 987; 1062; 1116; 1188; 1269; 1368; 2319; 2374; 2391; 3170; 3749; 3852; 4542; 4555; 4676
BstV1I	GCAGCNNNNNNNN!	8	1247; 1399; 1571; 2856; 2898; 3419; 3872; 4372
BstV1I	!NNNNNNNNNNNNGCTGC	8	601; 850; 2065; 2730; 2914; 3007; 4073; 4279
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	10	585; 670; 686; 2954; 3200; 3592; 3951; 3963; 4049; 4060
BstYI	R!GATCY	10	585; 670; 686; 2954; 3200; 3592; 3951; 3963; 4049; 4060
BstZI	C!GGCCG	2	1427; 2689
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2212; 3002; 4503
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2623
Bsu36I	CC!TNAGG	2	2263; 3895
BsuRI	GG!CC	29	84; 277; 642; 778; 878; 1120; 1176; 1186; 1242; 1279; 1347; 1429; 1749; 1891; 2546; 2552; 2561; 2604; 2691; 2865; 3256; 3283; 3792; 3849; 3882; 4227; 4661; 4679; 4690
BsuTUI	AT!CGAT	1	2623
BtgI	C!CRYGG	6	360; 703; 1031; 1397; 2512; 3215
BtgZI	GCGATGNNNNNNNNNN!	2	1900; 3235
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3054; 3398
BthCI	GCNG!C	41	614; 617; 620; 623; 650; 662; 799; 866; 1036; 1228; 1231; 1238; 1390; 1432; 1562; 2081; 2103; 2117; 2555; 2694; 2746; 2757; 2847; 2852; 2889; 2930; 3017; 3023; 3259; 3355; 3396; 3410; 3524; 3863; 3878; 4089; 4295; 4298; 4363; 4506; 4661
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	770
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1622
BtsCI	GGATGNN!	4	2643; 3100; 3125; 3579
BtsCI	!CATCC	4	982; 997; 1111; 2469
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3051; 3501
BveI	!NNNNNNNNGCAGGT	1	2670
Cac8I	GCN!NGC	37	86; 279; 593; 664; 734; 792; 828; 861; 923; 1233; 1240; 1349; 1385; 2002; 2045; 2059; 2332; 2351; 2404; 2423; 2677; 2863; 3082; 3148; 3154; 3186; 3227; 3231; 3285; 3568; 3755; 3802; 3858; 3880; 4091; 4651; 4688
CaiI	CAGNNN!CTG	3	1384; 3884; 4292
CciI	T!CATGA	2	2209; 3981
CciNI	GC!GGCCGC	1	1427
CdiI	CATC!G	8	352; 740; 1076; 1220; 3072; 3077; 3275; 3416
CdiI	C!GATG	2	1886; 3221
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4655
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2444; 2486
CelII	GC!TNAGC	0	
CfoI	GCG!C	26	664; 666; 796; 966; 994; 1383; 2049; 2057; 2083; 2105; 2114; 2127; 2158; 2777; 2785; 2849; 2886; 3152; 3412; 3588; 3674; 4077; 4186; 4360; 4460; 4527
CfrI	Y!GGCCR	7	776; 1240; 1427; 2689; 2863; 3254; 3281
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	7	692; 732; 855; 2000; 3102; 3283; 3566
Cfr13I	G!GNCC	14	83; 276; 641; 877; 1118; 1278; 1334; 1346; 1890; 3299; 3744; 3790; 3848; 3881
Cfr42I	CCG!GG	1	1034

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
ChaI	GATC!	23	589; 674; 690; 755; 839; 1292; 1444; 2624; 2628; 2647; 2958; 3036; 3117; 3126; 3204; 3580; 3596; 3955; 3967; 4045; 4053; 4064; 4139
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	4	2600; 4040; 4140; 4218
CjeI	!NNNNNNNNNACNNNNNTGG	7	64; 257; 2267; 2362; 3554; 4104; 4659
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2301; 2396; 3588; 4138; 4693
CjeI	!NNNNNNNNCCANNNNNNGT	4	2566; 4006; 4106; 4184
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	2	4040; 4218
CjePI	!NNNNNNNGANNNNNNNTGG	3	257; 3554; 4153
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 3587; 4186
CjePI	!NNNNNNNCCANNNNNNTC	2	4007; 4185
Clal	AT!CGAT	1	2623
CpoI	CG!GWCCG	1	3299
CseI	GACGCNNNNN!	5	526; 617; 822; 3493; 3572
CseI	!NNNNNNNNNNGCGTC	3	2116; 4011; 4589
CsiI	A!CCWGGT	1	2372
CspI	CG!GWCCG	1	3299
Csp6I	G!TAC	11	218; 243; 298; 331; 382; 539; 909; 1022; 1133; 1415; 3088
Csp45I	TT!CGAA	1	3465
CspAI	A!CCGGT	1	692
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1123; 2063; 3672
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	21	301; 361; 596; 704; 938; 968; 1358; 1403; 2210; 2350; 2422; 2513; 2654; 2999; 3185; 3216; 3242; 3598; 3982; 4702; 4753
CviJI	RG!CY	97	42; 84; 93; 277; 566; 628; 637; 642; 650; 725; 758; 778; 830; 863; 878; 979; 1079; 1120; 1127; 1138; 1147; 1176; 1186; 1238; 1242; 1279; 1312; 1347; 1390; 1412; 1429; 1452; 1562; 1729; 1749; 1891; 1972; 1986; 2000; 2281; 2322; 2394; 2517; 2546; 2552; 2561; 2569; 2592; 2604; 2610; 2691; 2708; 2716; 2743; 2768; 2852; 2861; 2865; 2889; 2927; 3003; 3020; 3039; 3102; 3146; 3156; 3173; 3256; 3283; 3287; 3324; 3347; 3363; 3543; 3570; 3631; 3753; 3792; 3849; 3856; 3863; 3882; 3893; 4144; 4173; 4216; 4227; 4292; 4371; 4396; 4401; 4447; 4537; 4635; 4661; 4679; 4690
CviKI-1	RG!CY	97	42; 84; 93; 277; 566; 628; 637; 642; 650; 725; 758; 778; 830; 863; 878; 979; 1079; 1120; 1127; 1138; 1147; 1176; 1186; 1238; 1242; 1279; 1312; 1347; 1390; 1412; 1429; 1452; 1562; 1729; 1749; 1891; 1972; 1986; 2000; 2281; 2322; 2394; 2517; 2546; 2552; 2561; 2569; 2592; 2604; 2610; 2691; 2708; 2716; 2743; 2768; 2852; 2861; 2865; 2889; 2927; 3003; 3020; 3039; 3102; 3146; 3156; 3173; 3256; 3283; 3287; 3324; 3347; 3363; 3543; 3570; 3631; 3753; 3792; 3849; 3856; 3863; 3882; 3893; 4144; 4173; 4216; 4227; 4292; 4371; 4396; 4401; 4447; 4537; 4635; 4661; 4679; 4690
CviQI	G!TAC	11	218; 243; 298; 331; 382; 539; 909; 1022; 1133; 1415; 3088
DdeI	C!TNAG	7	1308; 2263; 2565; 3446; 3895; 4018; 4427
DinI	GGC!GCC	1	2784
DpnI	GA!TC	23	587; 672; 688; 753; 837; 1290; 1442; 2622; 2626; 2645; 2956; 3034; 3115; 3124; 3202; 3578; 3594; 3953; 3965; 4043; 4051; 4062; 4137
DpnII	!GATC	23	585; 670; 686; 751; 835; 1288; 1440; 2620; 2624; 2643; 2954; 3032; 3113; 3122; 3200; 3576; 3592; 3951; 3963; 4041; 4049; 4060; 4135
DraI	TTT!AAA	3	1485; 3927; 3946
DraII	RG!GNCCY	1	3881
DraIII	CACNN!GTG	2	1361; 1899
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	6	266; 958; 1045; 1114; 1357; 4263
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1854; 2810; 4599
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1854; 2810; 4599
EaeI	Y!GGCCR	7	776; 1240; 1427; 2689; 2863; 3254; 3281

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EagI	C!GGCCG	2	1427; 2689
Eam1104I	CTCTCN!	1	1008
Eam1104I	!NNNNGAAGAG	3	2250; 3127; 3337
Eam1105I	GACNN!NNGTC	0	
EarI	CTCTCN!	1	1008
EarI	!NNNNGAAGAG	3	2250; 3127; 3337
EciI	GGCGANNNNNNNNNN!	4	2283; 3312; 4499; 4645
EciI	!NNNNNNNNNTCCGCC	4	496; 2454; 2475; 2496
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	2	1427; 2689
Eco24I	GRGCY!C	3	1974; 3148; 3858
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	1	3772
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	1334; 3299; 3744
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	2	1427; 2689
Eco57I	CTGAAGNNNNNNNNNNNNNN!	3	1101; 2929; 3361
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4159
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	2	2263; 3895
Eco88I	C!YCGRG	1	972
Eco91I	G!GTNACC	1	887
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 703; 2512; 2605; 3215; 3620
Eco147I	AGG!CCT	1	2604
EcoHI	!CCSGG	5	642; 2785; 2945; 3558; 4322
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	8	852; 1101; 1149; 1209; 1389; 2929; 3361; 3623
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	2	3566; 4159
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	1	887
Eco0109I	RG!GNCCY	1	3881
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	19	88; 281; 873; 883; 985; 1060; 1114; 1186; 1267; 1366; 2317; 2372; 2389; 3168; 3747; 3850; 4540; 4553; 4674
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 703; 2512; 2605; 3215; 3620
EcoT22I	ATGCA!T	3	2355; 2427; 4758
EcoT38I	GRGCY!C	3	1974; 3148; 3858
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	1	2784
EheI	GGC!GCC	1	2784
ErhI	C!CWWGG	6	360; 703; 2512; 2605; 3215; 3620
EsaBC3I	TC!GA	15	755; 1049; 1076; 1220; 1933; 2624; 2897; 3053; 3077; 3113; 3275; 3466; 3511; 3766; 4604
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNGAGACC	0	
FaeI	CATG!	21	304; 364; 599; 707; 941; 971; 1361; 1406; 2213; 2353; 2425; 2516; 2657; 3002; 3188; 3219; 3245; 3601; 3985; 4705; 4756
Fail	YA!TR	57	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 597; 705; 939; 969; 1359; 1404; 1445; 1455; 1521; 1566; 1771; 2199; 2211; 2342; 2351; 2414; 2423; 2447; 2514; 2538; 2655; 2719; 3000; 3025; 3186; 3217; 3243; 3315; 3531; 3599; 3677; 3729; 3890; 3907; 3909; 3911; 3983; 4261; 4450; 4566; 4639; 4703; 4754
FalI	AAGNNNNCTTNNNNNNNNNNNN!	1	3123
FalI	!NNNNNNNNAAGNNNNNNCTT	1	3091
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2934; 3466; 3575
FaqI	!NNNNNNNNNNNNNGTCCC	4	2299; 2371; 2435; 3730
FatI	!CATG	21	300; 360; 595; 703; 937; 967; 1357; 1402; 2209; 2349; 2421; 2512; 2653; 2998; 3184; 3215; 3241; 3597; 3981; 4701; 4752
FauI	CCCGCNNNN!	12	93; 119; 286; 930; 1038; 1215; 1356; 2105; 2460; 2481; 3677; 3809
FauI	!NNNNNNGCGGG	6	616; 2036; 2906; 3443; 3581; 3728
FauNDI	CA!TATG	1	234

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	1156
FmuI	GGNC!C	14	86; 279; 644; 880; 1121; 1281; 1337; 1349; 1893; 3302; 3747; 3793; 3851; 3884
Fnu4HI	GC!NGC	41	612; 615; 618; 621; 648; 660; 797; 864; 1034; 1226; 1229; 1236; 1388; 1430; 1560; 2079; 2101; 2115; 2553; 2692; 2744; 2755; 2845; 2850; 2887; 2928; 3015; 3021; 3257; 3353; 3394; 3408; 3522; 3861; 3876; 4087; 4293; 4296; 4361; 4504; 4659
FokI	GGATGNNNNNNNNN!	4	2650; 3107; 3132; 3586
FokI	!NNNNNNNNNNNNNNCATCC	3	969; 1098; 2456
FriOI	GRGCY!C	3	1974; 3148; 3858
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2885
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1438; 1632; 2050; 2606; 3621; 3955; 4208
FspEI	CCNNNNNNNNNNNN!	159	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 656; 673; 687; 703; 746; 792; 830; 866; 880; 896; 914; 935; 980; 999; 1014; 1043; 1073; 1128; 1161; 1178; 1200; 1220; 1256; 1271; 1293; 1307; 1329; 1350; 1368; 1388; 1404; 1431; 1466; 1505; 1519; 1660; 1755; 1779; 1802; 1825; 1843; 1865; 1886; 1905; 1924; 1953; 1974; 1988; 2014; 2102; 2128; 2177; 2218; 2236; 2275; 2291; 2329; 2386; 2401; 2458; 2478; 2492; 2509; 2523; 2560; 2575; 2618; 2701; 2768; 2799; 2819; 2834; 2879; 2893; 2959; 2973; 2992; 3008; 3049; 3069; 3116; 3166; 3182; 3202; 3227; 3247; 3270; 3297; 3315; 3341; 3381; 3407; 3431; 3487; 3501; 3529; 3572; 3593; 3628; 3672; 3760; 3784; 3806; 3826; 3842; 3863; 3877; 3896; 3980; 4000; 4028; 4043; 4077; 4119; 4146; 4161; 4206; 4230; 4244; 4266; 4292; 4312; 4336; 4362; 4410; 4429; 4448; 4474; 4509; 4554; 4584; 4598; 4649; 4663; 4688; 4704; 4725; 4754
FspEI	!NNNNNNNNNNNNNNNGG	130	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 608; 629; 666; 690; 718; 744; 781; 808; 841; 860; 889; 960; 1000; 1018; 1036; 1068; 1086; 1113; 1158; 1176; 1206; 1224; 1254; 1317; 1344; 1384; 1411; 1454; 1554; 1623; 1653; 1731; 1780; 1802; 1830; 1866; 1911; 1940; 1976; 1995; 2023; 2043; 2106; 2129; 2237; 2269; 2287; 2316; 2359; 2388; 2499; 2528; 2571; 2592; 2620; 2653; 2673; 2698; 2725; 2750; 2772; 2800; 2826; 2847; 2898; 2919; 2937; 2985; 3021; 3077; 3102; 3126; 3155; 3178; 3202; 3228; 3250; 3269; 3294; 3334; 3370; 3435; 3520; 3544; 3573; 3607; 3628; 3648; 3693; 3720; 3739; 3772; 3824; 3855; 3882; 3934; 4032; 4103; 4148; 4209; 4274; 4308; 4334; 4352; 4388; 4458; 4481; 4503; 4527; 4560; 4608; 4643; 4661; 4718
Fsp4HI	GC!NGC	41	612; 615; 618; 621; 648; 660; 797; 864; 1034; 1226; 1229; 1236; 1388; 1430; 1560; 2079; 2101; 2115; 2553; 2692; 2744; 2755; 2845; 2850; 2887; 2928; 3015; 3021; 3257; 3353; 3394; 3408; 3522; 3861; 3876; 4087; 4293; 4296; 4361; 4504; 4659
GdiII	C!GGCCR	3	776; 1427; 2689
GdiII	Y!GGCCG	5	1240; 1427; 2689; 3254; 3281
GlaI	GC!GC	26	663; 665; 795; 965; 993; 1382; 2048; 2056; 2082; 2104; 2113; 2126; 2157; 2776; 2784; 2848; 2885; 3151; 3411; 3587; 3673; 4076; 4185; 4359; 4459; 4526
Glul	GC!NGC	41	612; 615; 618; 621; 648; 660; 797; 864; 1034; 1226; 1229; 1236; 1388; 1430; 1560; 2079; 2101; 2115; 2553; 2692; 2744; 2755; 2845; 2850; 2887; 2928; 3015; 3021; 3257; 3353; 3394; 3408; 3522; 3861; 3876; 4087; 4293; 4296; 4361; 4504; 4659
GsaI	CCCAG!C	3	2330; 2402; 4401
GsaI	GCTGG!G	1	3291
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	5	852; 1149; 1209; 1389; 3623
GsuI	!NNNNNNNNNNNNNNNCTCCAG	1	3566
HaeI	WGG!CCW	6	1176; 2604; 2865; 4227; 4679; 4690
HaeII	RGCGC!Y	6	967; 1384; 2050; 2058; 2786; 4461
HaeIII	GG!CC	29	84; 277; 642; 778; 878; 1120; 1176; 1186; 1242; 1279; 1347; 1429; 1749; 1891; 2546; 2552; 2561; 2604; 2691; 2865; 3256; 3283; 3792; 3849; 3882; 4227; 4661; 4679; 4690
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1458; 2979
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	1424; 2945
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1457; 2978
HaeIV	!NNNNNNNGAYNNNNNNRTC	2	1426; 2947

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HapII	C!CGG	20	644; 693; 733; 856; 2001; 2688; 2765; 2787; 2815; 2946; 3036; 3103; 3284; 3559; 3567; 3659; 4133; 4323; 4349; 4496
HgaI	GACGCNNNNN!	5	526; 617; 822; 3493; 3572
HgaI	!NNNNNNNNNNNGCGTC	3	2116; 4011; 4589
HhaI	GCG!C	26	664; 666; 796; 966; 994; 1383; 2049; 2057; 2083; 2105; 2114; 2127; 2158; 2777; 2785; 2849; 2886; 3152; 3412; 3588; 3674; 4077; 4186; 4360; 4460; 4527
Hin1I	GR!CGYC	9	122; 175; 258; 444; 609; 814; 2783; 3485; 3564
Hin1II	CATG!	21	304; 364; 599; 707; 941; 971; 1361; 1406; 2213; 2353; 2425; 2516; 2657; 3002; 3188; 3219; 3245; 3601; 3985; 4705; 4756
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1457; 2978
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	1425; 2946; 2976
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1457; 2978; 3008
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	1425; 2946
Hin6I	G!CGC	26	662; 664; 794; 964; 992; 1381; 2047; 2055; 2081; 2103; 2112; 2125; 2156; 2775; 2783; 2847; 2884; 3150; 3410; 3586; 3672; 4075; 4184; 4358; 4458; 4525
HinPII	G!CGC	26	662; 664; 794; 964; 992; 1381; 2047; 2055; 2081; 2103; 2112; 2125; 2156; 2775; 2783; 2847; 2884; 3150; 3410; 3586; 3672; 4075; 4184; 4358; 4458; 4525
HincII	GTY!RAC	1	1546
HindII	GTY!RAC	1	1546
HindIII	A!AGCTT	0	
Hinfl	G!ANTC	13	410; 1371; 1434; 1826; 1848; 2258; 3268; 3402; 3454; 3512; 3549; 4331; 4727
HpaI	GTT!AAC	1	1546
HpaII	C!CGG	20	644; 693; 733; 856; 2001; 2688; 2765; 2787; 2815; 2946; 3036; 3103; 3284; 3559; 3567; 3659; 4133; 4323; 4349; 4496
HphI	GGTGANNNNNNN!	7	376; 899; 1052; 1076; 1205; 3854; 3970
HphI	!NNNNNNNTCACC	4	890; 1154; 1900; 2961
Hpy8I	GTN!NAC	12	201; 539; 577; 773; 1067; 1157; 1196; 1546; 1830; 1847; 1902; 4389
Hpy99I	CGWCG!	11	771; 816; 1017; 1278; 2873; 2901; 3195; 3210; 3487; 3872; 4605
Hpy166II	GTN!NAC	12	201; 539; 577; 773; 1067; 1157; 1196; 1546; 1830; 1847; 1902; 4389
Hpy188I	TCN!GA	11	585; 1957; 2566; 2750; 3094; 3447; 3548; 4027; 4161; 4514; 4592
Hpy188III	TC!NNGA	23	605; 959; 1202; 1438; 2210; 2262; 2575; 2628; 2801; 3117; 3126; 3209; 3265; 3309; 3399; 3432; 3501; 3982; 4056; 4139; 4237; 4335; 4469
HpyAV	CCTTCNNNNN!	3	3428; 3535; 4214
HpyAV	!NNNNNGAAGG	8	1076; 2016; 2911; 3640; 3656; 3839; 4156; 4466
HpyCH4III	ACN!GT	14	76; 198; 269; 543; 581; 913; 1874; 3163; 3279; 3387; 3710; 4201; 4671; 4742
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 769; 1153; 1261; 1843; 1855; 1898; 2008; 2899; 3086; 3867; 4000
HpyCH4V	TG!CA	20	773; 850; 1235; 1387; 1532; 1559; 1627; 2344; 2353; 2416; 2425; 2540; 2616; 2675; 2834; 3009; 3023; 4093; 4389; 4756
HpyF3I	C!TNAG	7	1308; 2263; 2565; 3446; 3895; 4018; 4427
HpyF10VI	GCNNNNN!NNGC	37	90; 212; 244; 283; 376; 400; 617; 634; 656; 755; 796; 856; 869; 913; 1144; 1336; 1387; 1426; 2010; 2040; 2067; 2109; 2350; 2422; 2473; 2552; 2774; 2858; 2881; 3020; 3143; 3226; 3493; 3680; 3884; 4083; 4655
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 609; 814; 2783; 3485; 3564
Hsp92II	CATG!	21	304; 364; 599; 707; 941; 971; 1361; 1406; 2213; 2353; 2425; 2516; 2657; 3002; 3188; 3219; 3245; 3601; 3985; 4705; 4756
HspAI	G!CGC	26	662; 664; 794; 964; 992; 1381; 2047; 2055; 2081; 2103; 2112; 2125; 2156; 2775; 2783; 2847; 2884; 3150; 3410; 3586; 3672; 4075; 4184; 4358; 4458; 4525
KasI	G!GCGCC	1	2782
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	1034
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1546

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kzo9I	!GATC	23	585; 670; 686; 751; 835; 1288; 1440; 2620; 2624; 2643; 2954; 3032; 3113; 3122; 3200; 3576; 3592; 3951; 3963; 4041; 4049; 4060; 4135
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3127; 3337
LpnI	RGCI!GCY	6	965; 1382; 2048; 2056; 2784; 4459
LpnPI	CCDGNNNNNNNNNN!	61	102; 295; 618; 657; 706; 746; 869; 887; 999; 1074; 1128; 1200; 1266; 1281; 1320; 1380; 1397; 1520; 1825; 2014; 2237; 2275; 2291; 2331; 2386; 2403; 2503; 2588; 2701; 2778; 2800; 2823; 2959; 2973; 2992; 3049; 3116; 3166; 3182; 3239; 3297; 3506; 3572; 3596; 3672; 3761; 3864; 3897; 4128; 4146; 4292; 4312; 4336; 4362; 4411; 4509; 4554; 4584; 4663; 4688; 4725
LpnPI	!NNNNNNNNNNNNNCHGG	58	75; 268; 552; 619; 678; 718; 744; 816; 841; 860; 972; 1047; 1101; 1173; 1224; 1254; 1353; 1866; 1986; 2043; 2106; 2304; 2316; 2376; 2388; 2620; 2665; 2708; 2750; 2772; 2800; 2847; 2909; 2931; 3021; 3088; 3111; 3155; 3250; 3269; 3294; 3443; 3544; 3587; 3644; 3734; 3837; 3864; 3882; 4118; 4155; 4308; 4334; 4474; 4492; 4527; 4608; 4661
Lsp1109I	GCAGCNNNNNNNN!	8	1247; 1399; 1571; 2856; 2898; 3419; 3872; 4372
Lsp1109I	!NNNNNNNNNNNGCTGC	8	601; 850; 2065; 2730; 2914; 3007; 4073; 4279
LweI	GCATCNNNNN!	8	745; 1081; 1599; 2362; 2434; 3082; 3146; 3421
LweI	!NNNNNNNNNGATGC	5	357; 2741; 2996; 3212; 4604
MabI	A!CCWGGT	1	2372
MaeI	C!TAG	8	592; 1438; 1632; 2050; 2606; 3621; 3955; 4208
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 769; 1153; 1261; 1843; 1855; 1898; 2008; 2899; 3086; 3867; 4000
MaeIII	!GTNAC	13	61; 148; 497; 887; 1571; 2072; 2084; 2903; 3209; 3899; 4165; 4281; 4344
MalI	GA!TC	23	587; 672; 688; 753; 837; 1290; 1442; 2622; 2626; 2645; 2956; 3034; 3115; 3124; 3202; 3578; 3594; 3953; 3965; 4043; 4051; 4062; 4137
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2207; 3396
MbiI	GAG!CGG	2	2043; 3450
MboI	!GATC	23	585; 670; 686; 751; 835; 1288; 1440; 2620; 2624; 2643; 2954; 3032; 3113; 3122; 3200; 3576; 3592; 3951; 3963; 4041; 4049; 4060; 4135
MboII	GAAGANNNNNNNN!	6	953; 2039; 2267; 3144; 3354; 3973
MboII	!NNNNNNNTCTTC	6	947; 995; 3434; 3601; 3801; 4044
McaTI	GCGC!GC	1	665
MfeI	C!AATTG	1	1533
MfII	R!GATCY	10	585; 670; 686; 2954; 3200; 3592; 3951; 3963; 4049; 4060
MhII	GDGCH!C	13	745; 775; 874; 1267; 1366; 1974; 2729; 2822; 2896; 3086; 3148; 3858; 4391
MIsI	TGG!CCA	1	2865
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2865
MlyI	GAGTCNNNNN!	3	1380; 1835; 2267
MlyI	!NNNNNGACTC	5	404; 1428; 1842; 3448; 4325
Mly113I	GG!CGCC	1	2783
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1876
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	4308; 4492
MnII	CCTCNNNNNNN!	9	906; 1011; 1502; 2566; 3384; 3590; 3904; 4274; 4598
MnII	!NNNNNNGAGG	22	541; 713; 794; 968; 1031; 1043; 1094; 1184; 1214; 1337; 1462; 1927; 2258; 2536; 2579; 2594; 2634; 2698; 2834; 3191; 3621; 4524
Mph1103I	ATGCA!T	3	2355; 2427; 4758
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	732; 2000; 3283; 3566
MroXI	GAANN!NNTTC	1	951
MscI	TGG!CCA	1	2865
MseI	T!TAA	15	7; 1484; 1545; 1666; 1687; 1698; 1710; 1721; 1738; 1836; 2107; 3926; 3940; 3945; 3997
MslI	CAYNN!NNRTG	5	365; 885; 942; 1062; 3220

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspI	C!CGG	20	644; 693; 733; 856; 2001; 2688; 2765; 2787; 2815; 2946; 3036; 3103; 3284; 3559; 3567; 3659; 4133; 4323; 4349; 4496
Msp20I	TGG!CCA	1	2865
MspA1I	CMG!CKG	7	614; 1033; 1238; 2281; 2889; 4118; 4363
MspCI	C!TTAAG	1	1665
MspJI	CNNRNNNNNNNN!	242	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; 617; 636; 650; 665; 679; 705; 725; 745; 758; 771; 786; 803; 818; 839; 868; 881; 896; 909; 934; 948; 971; 984; 998; 1019; 1037; 1061; 1074; 1088; 1109; 1127; 1140; 1161; 1179; 1199; 1214; 1232; 1251; 1265; 1280; 1293; 1319; 1333; 1350; 1368; 1396; 1410; 1433; 1450; 1466; 1490; 1507; 1520; 1561; 1575; 1588; 1606; 1644; 1659; 1677; 1718; 1742; 1762; 1780; 1801; 1824; 1856; 1871; 1893; 1911; 1924; 1945; 1962; 1975; 1988; 2004; 2017; 2047; 2062; 2087; 2105; 2118; 2133; 2157; 2171; 2195; 2220; 2236; 2274; 2290; 2329; 2343; 2357; 2385; 2401; 2415; 2429; 2458; 2471; 2492; 2501; 2523; 2553; 2569; 2587; 2617; 2640; 2664; 2688; 2707; 2735; 2761; 2777; 2790; 2813; 2827; 2847; 2860; 2874; 2893; 2907; 2920; 2936; 2951; 2964; 2980; 2995; 3011; 3036; 3055; 3071; 3084; 3097; 3115; 3129; 3143; 3159; 3181; 3197; 3216; 3238; 3254; 3277; 3296; 3310; 3326; 3340; 3360; 3376; 3389; 3411; 3444; 3458; 3478; 3491; 3505; 3559; 3572; 3595; 3608; 3627; 3644; 3671; 3707; 3740; 3759; 3784; 3805; 3832; 3845; 3862; 3876; 3891; 3907; 3967; 3992; 4008; 4030; 4043; 4057; 4088; 4102; 4127; 4145; 4160; 4173; 4192; 4205; 4220; 4249; 4268; 4286; 4311; 4326; 4345; 4361; 4380; 4398; 4414; 4428; 4447; 4474; 4497; 4519; 4538; 4553; 4566; 4583; 4603; 4630; 4643; 4662; 4687; 4710; 4724; 4737; 4754
MspJI	!NNNNNNNNNNNNYNG	202	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 591; 608; 625; 647; 667; 690; 715; 732; 756; 773; 792; 813; 833; 853; 870; 889; 908; 945; 972; 994; 1011; 1033; 1062; 1083; 1101; 1153; 1173; 1193; 1218; 1239; 1256; 1293; 1313; 1334; 1353; 1370; 1389; 1417; 1435; 1464; 1493; 1535; 1618; 1653; 1680; 1703; 1732; 1776; 1798; 1830; 1866; 1883; 1904; 1941; 1961; 1978; 1995; 2030; 2048; 2066; 2083; 2107; 2129; 2156; 2184; 2210; 2248; 2269; 2286; 2304; 2327; 2348; 2376; 2399; 2420; 2438; 2459; 2476; 2499; 2523; 2543; 2561; 2583; 2614; 2636; 2662; 2681; 2698; 2726; 2745; 2764; 2782; 2800; 2821; 2843; 2867; 2900; 2920; 2938; 2959; 2985; 3012; 3029; 3046; 3063; 3089; 3111; 3133; 3151; 3171; 3190; 3212; 3250; 3270; 3294; 3314; 3334; 3361; 3385; 3418; 3437; 3465; 3487; 3516; 3544; 3569; 3588; 3607; 3628; 3645; 3662; 3693; 3720; 3740; 3763; 3783; 3820; 3837; 3856; 3882; 3902; 3941; 3968; 3987; 4005; 4042; 4060; 4101; 4119; 4145; 4162; 4194; 4223; 4251; 4272; 4295; 4314; 4335; 4353; 4370; 4388; 4414; 4435; 4455; 4475; 4493; 4514; 4540; 4557; 4576; 4595; 4624; 4643; 4661; 4680; 4698; 4716; 4739
MspR9I	CC!NGG	24	90; 283; 644; 875; 885; 987; 1062; 1116; 1188; 1269; 1368; 2319; 2374; 2391; 2787; 2947; 3170; 3560; 3749; 3852; 4324; 4542; 4555; 4676
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	1533
MvaI	CC!WGG	19	90; 283; 875; 885; 987; 1062; 1116; 1188; 1269; 1368; 2319; 2374; 2391; 3170; 3749; 3852; 4542; 4555; 4676
Mva1269I	GAATGCN!	1	1534
Mva1269I	G!CATTC	1	1627
MvnI	CG!CG	20	60; 662; 664; 796; 1033; 1351; 1432; 1707; 2083; 2103; 2127; 2158; 2849; 3150; 3588; 3672; 3735; 3804; 4077; 4658
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	37	90; 212; 244; 283; 376; 400; 617; 634; 656; 755; 796; 856; 869; 913; 1144; 1336; 1387; 1426; 2010; 2040; 2067; 2109; 2350; 2422; 2473; 2552; 2774; 2858; 2881; 3020; 3143; 3226; 3493; 3680; 3884; 4083; 4655
NaeI	GCC!GGC	4	734; 2002; 3285; 3568
NarI	GG!CGCC	1	2783
NciI	CC!SGG	5	644; 2787; 2947; 3560; 4324
NcoI	C!CATGG	4	360; 703; 2512; 3215
NdeI	CA!TATG	1	234

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeII	!GATC	23	585; 670; 686; 751; 835; 1288; 1440; 2620; 2624; 2643; 2954; 3032; 3113; 3122; 3200; 3576; 3592; 3951; 3963; 4041; 4049; 4060; 4135
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	732; 2000; 3283; 3566
NheI	G!CTAGC	1	591
NlaIII	CATG!	21	304; 364; 599; 707; 941; 971; 1361; 1406; 2213; 2353; 2425; 2516; 2657; 3002; 3188; 3219; 3245; 3601; 3985; 4705; 4756
NlaIV	GGN!NCC	17	467; 651; 688; 1280; 1938; 1959; 1971; 2162; 2323; 2395; 2784; 2819; 3667; 3746; 3791; 4634; 4673
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	1184; 1615; 1930; 3522
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 4594
Nli3877I	CYCGR!G	1	976
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2572; 3008
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	618; 2537
NmeDI	RCCGGYNNNNNNNN!	7	704; 744; 867; 2012; 3114; 3295; 3578
NmeDI	!NNNNNNNNNNNNRCCGGY	7	679; 719; 842; 1987; 3089; 3270; 3553
NmuCI	!GTSAC	4	887; 2072; 2903; 3209
NotI	GC!GGCCGC	1	1427
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2885
NsiI	ATGCA!T	3	2355; 2427; 4758
NspI	RCATG!Y	5	599; 2353; 2425; 3188; 4705
NspV	TT!CGAA	1	3465
OliI	CACNN!NNGTG	2	885; 1062
PabI	GTA!C	11	220; 245; 300; 333; 384; 541; 911; 1024; 1135; 1417; 3090
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2353; 2425; 3188
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	2	2209; 3981
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1268; 3748; 3851
PauI	G!CGCGC	1	662
PceI	AGG!CCT	1	2604
PciI	A!CATGT	1	4701
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3127; 3337
PcsI	WCGNNNN!NNNCGW	9	736; 1348; 1405; 3077; 3154; 3397; 3471; 3864; 4382
PctI	GAATGCN!	1	1534
PctI	G!CATTC	1	1627
PdiI	GCC!GGC	4	734; 2002; 3285; 3568
PdmI	GAANN!NNTTC	1	951
PfeI	G!AWTC	5	3268; 3402; 3512; 3549; 4727
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2901
PfIMI	CCANNNN!NTGG	3	680; 1127; 1403
PfoI	T!CCNGGA	3	985; 1366; 3558
PhoI	GG!CC	29	84; 277; 642; 778; 878; 1120; 1176; 1186; 1242; 1279; 1347; 1429; 1749; 1891; 2546; 2552; 2561; 2604; 2691; 2865; 3256; 3283; 3792; 3849; 3882; 4227; 4661; 4679; 4690
PinAI	A!CCGGT	1	692
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	2	1351; 3164
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2729; 2984
PleI	GAGTCNNNN!	3	1379; 1834; 2266
PleI	!NNNNNGACTC	5	404; 1428; 1842; 3448; 4325
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1865
PpiI	!NNNNNNNNNGAGNNNNNGTTC	4	711; 825; 1029; 3995
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	4	743; 857; 1061; 4027

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpiI	!NNNNNNGAACNNNNNCTC	1	1833
Ppsi	GAGTCNNNN!	3	1379; 1834; 2266
Ppsi	!NNNNNGACTC	5	404; 1428; 1842; 3448; 4325
Ppu10I	A!TGCAT	3	2351; 2423; 4754
Ppu21I	YAC!GTR	3	340; 1899; 3087
PpuMI	RG!GWCCY	0	
Psci	A!CATGT	1	4701
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1566; 1771
Psp03I	GGWC!C	3	1337; 3302; 3747
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	19	88; 281; 873; 883; 985; 1060; 1114; 1186; 1267; 1366; 2317; 2372; 2389; 3168; 3747; 3850; 4540; 4553; 4674
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	1	887
PspGI	!CCWGG	19	88; 281; 873; 883; 985; 1060; 1114; 1186; 1267; 1366; 2317; 2372; 2389; 3168; 3747; 3850; 4540; 4553; 4674
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	17	467; 651; 688; 1280; 1938; 1959; 1971; 2162; 2323; 2395; 2784; 2819; 3667; 3746; 3791; 4634; 4673
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 2513; 3512
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	2	1250; 2915
PspPI	G!GNCC	14	83; 276; 641; 877; 1118; 1278; 1334; 1346; 1890; 3299; 3744; 3790; 3848; 3881
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	2336; 2408; 3914
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	2249; 3444
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
Pssi	RGGNC!CY	1	3884
PstI	CTGCA!G	1	1389
PstNI	CAGNN!CTG	3	1384; 3884; 4292
PsuI	R!GATCY	10	585; 670; 686; 2954; 3200; 3592; 3951; 3963; 4049; 4060
PsyI	GACN!NNGTC	1	2901
PteI	G!CGCGC	1	662
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1238; 2281; 2889
RcaI	T!CATGA	2	2209; 3981
RceI	CATCGACNNNNNNNNNNNNNNNN!	1	3298
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	1512
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNCTCGGG	1	602
RpaB5I	CGRGGACNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	11	219; 244; 299; 332; 383; 540; 910; 1023; 1134; 1416; 3089
RsaNI	G!TAC	11	218; 243; 298; 331; 382; 539; 909; 1022; 1133; 1415; 3088
RseI	CAYNN!NNRTG	5	365; 885; 942; 1062; 3220
RsrII	CG!GWCCG	1	3299
Rsr2I	CG!GWCCG	1	3299
SacI	GAGCT!C	0	
SacII	CCGC!GG	1	1034
SalI	G!TCGAC	0	
SapI	GCTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SapI	!NNNNGAAGAGC	2	3127; 3337
SaqAI	T!TAA	15	7; 1484; 1545; 1666; 1687; 1698; 1710; 1721; 1738; 1836; 2107; 3926; 3940; 3945; 3997
SatI	GC!NGC	41	612; 615; 618; 621; 648; 660; 797; 864; 1034; 1226; 1229; 1236; 1388; 1430; 1560; 2079; 2101; 2115; 2553; 2692; 2744; 2755; 2845; 2850; 2887; 2928; 3015; 3021; 3257; 3353; 3394; 3408; 3522; 3861; 3876; 4087; 4293; 4296; 4361; 4504; 4659
Sau96I	G!GNCC	14	83; 276; 641; 877; 1118; 1278; 1334; 1346; 1890; 3299; 3744; 3790; 3848; 3881
Sau3AI	!GATC	23	585; 670; 686; 751; 835; 1288; 1440; 2620; 2624; 2643; 2954; 3032; 3113; 3122; 3200; 3576; 3592; 3951; 3963; 4041; 4049; 4060; 4135
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	1380; 1835; 2267
SchI	!NNNNNGACTC	5	404; 1428; 1842; 3448; 4325
SciI	CTC!GAG	0	
ScrFI	CC!NGG	24	90; 283; 644; 875; 885; 987; 1062; 1116; 1188; 1269; 1368; 2319; 2374; 2391; 2787; 2947; 3170; 3560; 3749; 3852; 4324; 4542; 4555; 4676
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	5	1013; 2361; 2433; 2602; 4544
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	1345; 2938; 3423
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	13	745; 775; 874; 1267; 1366; 1974; 2729; 2822; 2896; 3086; 3148; 3858; 4391
SelI	!CGCG	20	58; 660; 662; 794; 1031; 1349; 1430; 1705; 2081; 2101; 2125; 2156; 2847; 3148; 3586; 3670; 3733; 3802; 4075; 4656
SetI	ASST!	66	125; 137; 178; 261; 308; 342; 447; 552; 568; 727; 760; 772; 832; 865; 903; 1042; 1081; 1129; 1140; 1156; 1195; 1240; 1264; 1309; 1314; 1414; 1473; 1494; 1503; 1515; 1564; 1731; 1846; 1858; 1901; 1938; 1988; 2011; 2135; 2283; 2378; 2571; 2684; 2812; 2891; 2902; 2974; 3045; 3089; 3349; 3495; 3539; 3870; 3901; 3960; 4003; 4146; 4167; 4266; 4403; 4418; 4437; 4449; 4493; 4539; 4590
SexAI	A!CCWGGT	1	2372
SfaI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	745; 1081; 1599; 2362; 2434; 3082; 3146; 3421
SfaNI	!NNNNNNNNNGATGC	5	357; 2741; 2996; 3212; 4604
SfcI	C!TRYAG	4	1385; 2118; 4245; 4436
SfiI	GGCCNNNN!NGGCC	1	2558
SfoI	GGC!GCC	1	2784
Sfr274I	C!TCGAG	0	
Sfr303I	CCGC!GG	1	1034
SfuI	TT!CGAA	1	3465
SgeI	CNNGNNNNNNNNN!	196	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 617; 636; 650; 666; 680; 705; 731; 745; 758; 771; 786; 803; 818; 839; 868; 881; 896; 934; 950; 971; 984; 998; 1020; 1037; 1061; 1074; 1088; 1109; 1127; 1140; 1179; 1199; 1214; 1232; 1251; 1265; 1280; 1293; 1319; 1343; 1360; 1379; 1396; 1410; 1443; 1490; 1519; 1561; 1644; 1718; 1802; 1824; 1856; 1893; 1911; 1930; 1945; 1987; 2004; 2021; 2056; 2070; 2087; 2109; 2133; 2157; 2222; 2236; 2274; 2290; 2330; 2343; 2362; 2385; 2402; 2415; 2434; 2464; 2485; 2502; 2525; 2560; 2587; 2618; 2640; 2666; 2688; 2707; 2735; 2771; 2790; 2813; 2827; 2847; 2860; 2874; 2893; 2907; 2926; 2958; 2972; 2985; 3011; 3042; 3055; 3072; 3089; 3103; 3120; 3138; 3153; 3181; 3197; 3216; 3238; 3254; 3277; 3296; 3321; 3340; 3360; 3387; 3411; 3444; 3463; 3491; 3505; 3571; 3595; 3610; 3633; 3654; 3671; 3719; 3746; 3760; 3789; 3813; 3846; 3863; 3883; 3896; 3909; 3967; 3994; 4013; 4043; 4068; 4088; 4102; 4127; 4145; 4182; 4220; 4249; 4277; 4291; 4311; 4326; 4347; 4361; 4380; 4398; 4414; 4454; 4474; 4501; 4519; 4540; 4553; 4566; 4583; 4607; 4630; 4662; 4687; 4714; 4736

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	167	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 610; 629; 647; 679; 705; 726; 745; 768; 786; 813; 842; 860; 908; 945; 972; 994; 1011; 1035; 1062; 1083; 1101; 1153; 1173; 1193; 1218; 1239; 1267; 1293; 1317; 1334; 1353; 1370; 1389; 1417; 1464; 1493; 1535; 1618; 1692; 1776; 1798; 1830; 1867; 1885; 1904; 1961; 1978; 1995; 2030; 2048; 2068; 2088; 2107; 2131; 2196; 2248; 2304; 2336; 2359; 2376; 2408; 2438; 2459; 2476; 2499; 2534; 2561; 2592; 2614; 2640; 2662; 2681; 2709; 2745; 2764; 2787; 2808; 2826; 2843; 2867; 2900; 2932; 2959; 2985; 3016; 3046; 3063; 3089; 3112; 3133; 3155; 3175; 3195; 3212; 3251; 3270; 3295; 3314; 3334; 3361; 3385; 3418; 3437; 3465; 3487; 3545; 3569; 3588; 3607; 3628; 3645; 3693; 3720; 3740; 3763; 3787; 3820; 3837; 3857; 3883; 3941; 3968; 3987; 4017; 4042; 4062; 4101; 4119; 4156; 4194; 4223; 4251; 4272; 4300; 4321; 4354; 4372; 4428; 4448; 4475; 4493; 4514; 4540; 4557; 4581; 4604; 4636; 4661; 4688; 4710; 4739
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	1034
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1930; 3717; 4510
SimI	!GACCC	6	106; 1027; 1204; 3211; 3779; 4027
SinI	G!GWCC	3	1334; 3299; 3744
Slal	C!TCGAG	0	
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 885; 942; 1062; 3220
SmlI	C!TYRAG	5	1665; 3174; 4056; 4333; 4595
SmoI	C!TYRAG	5	1665; 3174; 4056; 4333; 4595
SmuI	CCCGCNNNN!	12	93; 119; 286; 930; 1038; 1215; 1356; 2105; 2460; 2481; 3677; 3809
SmuI	!NNNNNNGCGGG	6	616; 2036; 2906; 3443; 3581; 3728
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2353; 2425; 3188
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	10	18; 1533; 1597; 1675; 1701; 1712; 2359; 2431; 2523; 3941
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2604
SsiI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 612; 660; 923; 1031; 1070; 1208; 1337; 1349; 1418; 1430; 2098; 2101; 2115; 2205; 2453; 2465; 2474; 2486; 2496; 2507; 2553; 2692; 2755; 3257; 3302; 3368; 3394; 3519; 3522; 3670; 3802; 4109; 4253; 4749
SsiI	G!CGG	30	370; 403; 528; 623; 647; 796; 1033; 1225; 1228; 1426; 2043; 2070; 2158; 2268; 2849; 2913; 3014; 3017; 3297; 3352; 3450; 3588; 3735; 3875; 4118; 4363; 4484; 4503; 4630; 4658
SspI	AAT!ATT	2	1691; 2244
SspDI	G!GCGCC	1	2782
SspD5I	GGTGANNNNNNN!	7	376; 899; 1052; 1076; 1205; 3854; 3970
SspD5I	!NNNNNNNNNTCACC	4	889; 1153; 1899; 2960
SstI	GAGCT!C	0	
SstII	CCGC!GG	1	1034
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	25	92; 118; 285; 650; 751; 874; 929; 979; 1037; 1174; 1214; 1288; 1355; 1982; 2104; 2459; 2480; 2793; 3196; 3335; 3406; 3676; 3808; 4038; 4476
Sth132I	!NNNNNNNNCNGGG	19	15; 407; 470; 615; 1983; 2035; 2136; 2863; 2905; 2938; 3442; 3551; 3580; 3727; 3831; 3862; 4315; 4359; 4567
Sth302II	CC!GG	20	645; 694; 734; 857; 2002; 2689; 2766; 2788; 2816; 2947; 3037; 3104; 3285; 3560; 3568; 3660; 4134; 4324; 4350; 4497
StrI	C!TCGAG	0	
StsI	GGATGNNNNNNNNN!	4	2651; 3108; 3133; 3587
StsI	!NNNNNNNNNNNNNNNNNNCATCC	3	968; 1097; 2455
StuI	AGG!CCT	1	2604

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StyI	C!CWGG	6	360; 703; 2512; 2605; 3215; 3620
StyD4I	!CCNGG	24	88; 281; 642; 873; 883; 985; 1060; 1114; 1186; 1267; 1366; 2317; 2372; 2389; 2785; 2945; 3168; 3558; 3747; 3850; 4322; 4540; 4553; 4674
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	14	76; 198; 269; 543; 581; 913; 1874; 3163; 3279; 3387; 3710; 4201; 4671; 4742
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 772; 1156; 1264; 1846; 1858; 1901; 2011; 2902; 3089; 3870; 4003
TaqI	T!CGA	15	754; 1048; 1075; 1219; 1932; 2623; 2896; 3052; 3076; 3112; 3274; 3465; 3510; 3765; 4603
TaqII	GACCGANNNNNNNNNN!	4	1335; 1803; 2820; 3488
TaqII	!NNNNNNNNNTCGGTC	1	3732
TaqII	CACCCANNNNNNNNNN!	1	1410
TaqII	!NNNNNNNNNTGGGTG	3	172; 2687; 3279
TasI	!AATT	10	18; 1533; 1597; 1675; 1701; 1712; 2359; 2431; 2523; 3941
TatI	W!GTACW	6	217; 297; 330; 381; 1021; 1132
TauI	GCSG!C	23	614; 650; 662; 799; 1036; 1228; 1231; 1432; 2103; 2117; 2555; 2694; 2757; 2852; 3017; 3020; 3259; 3355; 3396; 3524; 3878; 4506; 4661
TfiI	G!AWTC	5	3268; 3402; 3512; 3549; 4727
TliI	C!TCGAG	0	
TruII	T!TAA	15	7; 1484; 1545; 1666; 1687; 1698; 1710; 1721; 1738; 1836; 2107; 3926; 3940; 3945; 3997
Tru9I	T!TAA	15	7; 1484; 1545; 1666; 1687; 1698; 1710; 1721; 1738; 1836; 2107; 3926; 3940; 3945; 3997
TscAI	CASTGNN!	7	661; 918; 1629; 2912; 4022; 4293; 4306
TseI	G!CWGC	19	614; 617; 620; 863; 1235; 1387; 1559; 2078; 2743; 2844; 2886; 2927; 3020; 3407; 3860; 4086; 4292; 4295; 4360
TsoI	TARCCANNNNNNNNNN!	2	1755; 2102
TsoI	!NNNNNNNNNTGGYTA	3	696; 1560; 3312
Tsp45I	!GTSAC	4	887; 2072; 2903; 3209
Tsp509I	!AATT	10	18; 1533; 1597; 1675; 1701; 1712; 2359; 2431; 2523; 3941
TspDTI	ATGAANNNNNNNNNN!	4	954; 1541; 2842; 3546
TspDTI	!NNNNNNNNNTTCAT	5	26; 833; 3260; 3716; 3923
TspEI	!AATT	10	18; 1533; 1597; 1675; 1701; 1712; 2359; 2431; 2523; 3941
TspGWI	ACGGANNNNNNNNNN!	1	3658
TspGWI	!NNNNNNNNNTCCGT	2	590; 1364
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	7	661; 918; 1629; 2912; 4022; 4293; 4306
TstI	CACNNNNNTCCNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2901
Tth111II	CAARCANNNNNNNNNN!	2	948; 4110
Tth111III	!NNNNNNNNNTGYTTG	3	3218; 4078; 4117
UnbI	!GGNCC	14	82; 275; 640; 876; 1117; 1277; 1333; 1345; 1889; 3298; 3743; 3789; 3847; 3880
Van9II	CCANNNN!NTGG	3	680; 1127; 1403
Vha464I	C!TTAAG	1	1665
VneI	G!TGCAC	2	771; 4387
VpaK11AI	!GGWCC	3	1333; 3298; 3743
VpaK11BI	G!GWCC	3	1334; 3299; 3744
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	3	1597; 1701; 1712
XbaI	T!CTAGA	1	1437
XceI	RCATG!Y	5	599; 2353; 2425; 3188; 4705
XcmI	CCANNNN!NNNTGG	2	1184; 1265
XhoI	C!TCGAG	0	
XhoII	R!GATCY	10	585; 670; 686; 2954; 3200; 3592; 3951; 3963; 4049; 4060
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	2605; 3620
XmiI	GT!MKAC	1	1156
XmnI	GAANN!NNTTC	1	951

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XspI	C!TAG	8	592; 1438; 1632; 2050; 2606; 3621; 3955; 4208
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2355; 2427; 4758