

pFusionRed-Golgi vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1703; 1908
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1991; 2947; 4736
AatI	AGG!CCT	2	1290; 2741
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1441
AccII	CG!CG	18	60; 633; 645; 730; 1569; 1844; 2220; 2240; 2264; 2295; 2986; 3287; 3725; 3809; 3872; 3941; 4214; 4795
AccIII	T!CCGGA	1	826
Acc16I	TGC!GCA	1	3022
Acc36I	ACCTGCNNNN!	2	3188; 3638
Acc36I	!NNNNNNNNGCAGGT	1	2807
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	6	465; 915; 975; 2073; 2919; 2954
AccB7I	CCANNNN!NTGG	1	1460
AccBSI	CCG!CTC	3	614; 2344; 3533
AccBSI	GAG!CGG	4	622; 1563; 2180; 3587
AceIII	CAGCTCNNNNNNN!	1	1876
AceIII	!NNNNNNNNNNGAGCTG	2	552; 861
AcI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 612; 631; 665; 728; 740; 771; 796; 799; 1174; 1312; 1414; 1567; 2235; 2238; 2252; 2342; 2590; 2602; 2611; 2623; 2633; 2644; 2690; 2829; 2892; 3394; 3439; 3505; 3531; 3656; 3659; 3807; 3939; 4246; 4390; 4886
AcI	G!CGG	30	370; 403; 528; 622; 656; 781; 1009; 1321; 1363; 1563; 2180; 2207; 2295; 2405; 2986; 3050; 3151; 3154; 3434; 3489; 3587; 3725; 3872; 4012; 4255; 4500; 4621; 4640; 4767; 4795
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	8	853; 2788; 3099; 3345; 3737; 4096; 4194; 4280
AcIWI	!NNNNNGATCC	7	580; 840; 1396; 3164; 3708; 4095; 4192
AcoI	Y!GGCCR	8	676; 725; 1519; 1564; 2826; 3000; 3391; 3418
AcsI	R!AATY	3	1734; 1838; 1849
AcuI	CTGAAGNNNNNNNNNNNNNNN!	3	1371; 3066; 3498
AcuI	!NNNNNNNNNNNNNCTTCAG	1	4296
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 700; 1438; 2920; 3622; 3701
AdeI	CACNNN!GTG	2	1511; 2036
AfaI	GT!AC	10	219; 244; 299; 332; 383; 540; 906; 1056; 1308; 3226
AfeI	AGC!GCT	0	
AfiI	CCNNNN!NNGG	24	49; 655; 674; 777; 805; 972; 1251; 1317; 1460; 1932; 2258; 2650; 2901; 3445; 3726; 3758; 3890; 3925; 3975; 4007; 4360; 4639; 4805; 4823
AfIII	C!TTAAG	1	1802
AfIII	A!CRYGT	1	4838
AgeI	A!CCGGT	1	851
AgsI	TTS!AA	6	938; 2331; 2375; 2385; 2798; 4374
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
Ajnl	!CCWGG	17	88; 281; 638; 718; 1036; 1180; 1195; 1324; 2454; 2509; 2526; 3305; 3884; 3987; 4677; 4690; 4811
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	1	864
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2494; 2566
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	2	2460; 2532
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	2002
AloI	!NNNNNNNNGGANNNNNNNGTTC	0	
AloI	GGANNNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1970
AluI	AG!CT	17	566; 824; 875; 902; 1048; 1355; 1699; 1866; 2123; 2418; 2706; 3026; 3484; 4281; 4538; 4584; 4674
AluBI	AG!CT	17	566; 824; 875; 902; 1048; 1355; 1699; 1866; 2123; 2418; 2706; 3026; 3484; 4281; 4538; 4584; 4674
AlwI	GGATCNNNN!	8	853; 2788; 3099; 3345; 3737; 4096; 4194; 4280
AlwI	!NNNNNGATCC	7	580; 840; 1396; 3164; 3708; 4095; 4192
Alw21I	GWGCW!C	5	826; 945; 3033; 3223; 4528
Alw26I	GTCTCN!	2	434; 767
Alw26I	!NNNNNGAGAC	7	1293; 1383; 1482; 2344; 2762; 3781; 3909
Alw44I	G!TGCAC	2	941; 4524
AlwNI	CAGNN!CTG	2	4021; 4429
Ama87I	C!YCGRG	0	
Aor13HI	T!CCGGA	1	826
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	3	2488; 2560; 4022
ApaLI	G!TGCAC	2	941; 4524
ApeKI	G!CWGC	18	625; 773; 1060; 1204; 1502; 1696; 2215; 2880; 2981; 3023; 3064; 3157; 3544; 3997; 4223; 4429; 4432; 4497
ApoI	R!AATTY	3	1734; 1838; 1849
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3435
ApyPI	!NNNNNNNNNNNNNNNNNNGTCGAT	3	3229; 3882; 4720
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3319
AquII	!NNNNNNNNNNNNNNNNNNGTNCGGC	1	1036
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2748
AquIII	!NNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	3490
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	21	586; 846; 1376; 1402; 1578; 2758; 2762; 2781; 3092; 3170; 3251; 3260; 3338; 3714; 3730; 4089; 4101; 4179; 4187; 4198; 4273
AsiGI	A!CCGGT	1	851
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3038
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	2742; 3757
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	25	630; 645; 687; 1335; 1542; 2186; 2194; 2220; 2242; 2251; 2264; 2295; 2914; 2922; 2986; 3023; 3289; 3549; 3725; 3811; 4214; 4323; 4497; 4597; 4664
AspS9I	G!GNCC	16	83; 276; 658; 829; 838; 1011; 1254; 1346; 1367; 1451; 2027; 3436; 3881; 3927; 3985; 4018
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	3602
AsuC2I	CC!SGG	7	818; 1087; 1435; 2924; 3084; 3697; 4461
AsuHPI	GGTGANNNNNNNN!	6	376; 878; 1247; 1557; 3991; 4107
AsuHPI	!NNNNNNNTCACC	4	695; 1136; 2037; 3098
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	0	
AvaII	G!GWCC	4	829; 1451; 3436; 3881
AviII	TGC!GCA	1	3022
AvrII	C!CTAGG	2	2742; 3757

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AxyI	CC!TNAGG	3	1120; 2400; 4032
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	6	918; 945; 978; 2866; 2959; 4528
BalI	TGG!CCA	2	1521; 3002
BamHI	G!GATCC	1	845
BanI	G!GYRCC	6	465; 915; 975; 2073; 2919; 2954
BanII	GRGCY!C	4	826; 2111; 3285; 3995
BanIII	AT!CGAT	1	2760
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	1	1460
BauI	C!ACGAG	3	1506; 3638; 4665
BauI	C!TCGTG	3	672; 1356; 3512
BbeI	GGCGC!C	1	2923
Bbr7I	GAAGACNNNNNN!	1	1167
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	1162
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	2490; 2562; 3325
BbvI	GCAGCNNNNNN!	9	637; 1072; 1514; 1708; 2993; 3035; 3556; 4009; 4509
BbvI	!NNNNNNNNNNNGCTGC	8	760; 1191; 2202; 2867; 3051; 3144; 4210; 4416
Bbv12I	GWGCW!C	5	826; 945; 3033; 3223; 4528
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	810; 2050; 2614; 3140; 3642
BccI	!NNNNNGATGG	4	1542; 2018; 2798; 3226
BceAI	ACGGCNNNNNNNNNN!	6	1073; 1217; 1268; 1334; 3346; 3833
BceAI	!NNNNNNNNNNNGCCGT	4	663; 2061; 2879; 4338
Bcefi	ACGGCNNNNNNNNNN!	6	1073; 1217; 1268; 1334; 3346; 3833
Bcefi	!NNNNNNNNNNNGCCGT	4	664; 2062; 2880; 4339
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNGCANNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	2349; 3139; 4640
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	7	818; 1087; 1435; 2924; 3084; 3697; 4461
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNN!	1	4773
BdaI	!NNNNNNNNNTGANNNNNNTCA	1	4739
BfaI	C!TAG	8	592; 1575; 1769; 2187; 2743; 3758; 4092; 4345
BfiI	ACTGGGNNNN!	1	2869
BfiI	!NNNCCCAGT	2	289; 2621
BfmI	C!TRYAG	5	651; 774; 2255; 4382; 4573
BfoI	RGCGC!Y	6	631; 1543; 2187; 2195; 2923; 4598
BfrI	C!TTAAG	1	1802
BfuI	GTATCCNNNNN!	3	2349; 3139; 4640
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3188; 3638
BfuAI	!NNNNNNNNGCAGGT	1	2807
BfuCI	!GATC	21	585; 845; 1375; 1401; 1577; 2757; 2761; 2780; 3091; 3169; 3250; 3259; 3337; 3713; 3729; 4088; 4100; 4178; 4186; 4197; 4272
BglI	GCCNNN!NGGC	5	90; 212; 283; 1330; 2695
BglII	A!GATCT	0	

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BisI	GC!NGC	45	612; 623; 626; 631; 665; 728; 740; 774; 782; 796; 799; 1010; 1061; 1205; 1322; 1503; 1567; 1697; 2216; 2238; 2252; 2690; 2829; 2881; 2892; 2982; 2987; 3024; 3065; 3152; 3155; 3158; 3394; 3490; 3531; 3545; 3659; 3998; 4013; 4224; 4430; 4433; 4498; 4641; 4796
BlnI	C!CTAGG	2	2742; 3757
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	45	613; 624; 627; 632; 666; 729; 741; 775; 783; 797; 800; 1011; 1062; 1206; 1323; 1504; 1568; 1698; 2217; 2239; 2253; 2691; 2830; 2882; 2893; 2983; 2988; 3025; 3066; 3153; 3156; 3159; 3395; 3491; 3532; 3546; 3660; 3999; 4014; 4225; 4431; 4434; 4499; 4642; 4797
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	4	829; 1451; 3436; 3881
Bme1390I	CC!NGG	24	90; 283; 640; 720; 818; 1038; 1087; 1182; 1197; 1326; 1435; 2456; 2511; 2528; 2924; 3084; 3307; 3697; 3886; 3989; 4461; 4679; 4692; 4813
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	0	
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	16	84; 277; 659; 830; 839; 1012; 1255; 1347; 1368; 1452; 2028; 3437; 3882; 3928; 3986; 4019
BmiI	GGN!NCC	20	467; 610; 839; 847; 917; 977; 1368; 2075; 2096; 2108; 2299; 2460; 2532; 2921; 2956; 3804; 3883; 3928; 4771; 4810
BmrI	ACTGGGNNNNN!	1	2869
BmrI	!NNNNCCCAGT	2	289; 2621
BmrFI	CC!NGG	24	90; 283; 640; 720; 818; 1038; 1087; 1182; 1197; 1326; 1435; 2456; 2511; 2528; 2924; 3084; 3307; 3697; 3886; 3989; 4461; 4679; 4692; 4813
BmsI	GCATCNNNNN!	7	1099; 1736; 2499; 2571; 3219; 3283; 3558
BmsI	!NNNNNNNNNGATGC	8	357; 625; 1252; 1420; 2878; 3133; 3349; 4741
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	2869
BmuI	!NNNNCCCAGT	2	289; 2621
BoxI	GACNN!NNGTC	1	1494
BpiI	GAAGACNN!	1	1162
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNNN!	2	2709; 3608
BpI	!NNNNNNNNNGAGNNNNNNCTC	2	2677; 3576
BpmI	CTGGAGNNNNNNNNNNNNNNNNN!	1	3760
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	2	1179; 3703
Bpu10I	CC!TNAGC	2	618; 735
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	3602
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	1162
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNNN!	3	1407; 4214; 4753
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	3	1410; 3296; 4455
BpuMI	CC!SGG	7	818; 1087; 1435; 2924; 3084; 3697; 4461
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	1383; 1482; 3909
Bsa29I	AT!CGAT	1	2760
BsaAI	YAC!GTR	3	340; 2036; 3224
BsaBI	GATNN!NNATC	2	1582; 2779
BsaHI	GR!CGYC	9	122; 175; 258; 444; 700; 1438; 2920; 3622; 3701
BsaJI	C!CNNGG	21	360; 695; 817; 841; 862; 949; 1180; 2454; 2526; 2649; 2684; 2693; 2742; 3083; 3352; 3757; 3884; 3885; 3987; 3988; 4678
BsaMI	GAATGCN!	1	1671
BsaMI	G!CATTC	1	1764
BsaWI	W!CCGGW	7	826; 831; 851; 2951; 3795; 4485; 4632
BsaXI	ACNNNNNCTCCNNNNNNNNNNN!	1	2000
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	1970

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTTG	2	1921; 3828
Bsc4I	CCNNNNN!NNGG	24	49; 655; 674; 777; 805; 972; 1251; 1317; 1460; 1932; 2258; 2650; 2901; 3445; 3726; 3758; 3890; 3925; 3975; 4007; 4360; 4639; 4805; 4823
BscAI	GCATCNNNN!	7	1098; 1735; 2498; 2570; 3218; 3282; 3557
BscAI	!NNNNNNGATGC	8	360; 628; 1255; 1423; 2881; 3136; 3352; 4744
BseI	ACTGGN!	6	757; 1465; 1538; 2864; 3065; 4311
BseI	C!CAGT	5	295; 1949; 2627; 4423; 4436
Bse8I	GATNN!NNATC	2	1582; 2779
Bse2II	CC!TNAGG	3	1120; 2400; 4032
Bse118I	R!CCGGY	5	851; 2137; 3239; 3420; 3703
BseAI	T!CCGGA	1	826
BseBI	CC!WGG	17	90; 283; 640; 720; 1038; 1182; 1197; 1326; 2456; 2511; 2528; 3307; 3886; 3989; 4679; 4692; 4813
BseCI	AT!CGAT	1	2760
BseDI	C!CNNGG	21	360; 695; 817; 841; 862; 949; 1180; 2454; 2526; 2649; 2684; 2693; 2742; 3083; 3352; 3757; 3884; 3885; 3987; 3988; 4678
Bse3DI	GCAATGNN!	1	3153
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2780; 3237; 3262; 3716
BseGI	!CATCC	4	945; 1033; 1090; 2606
BseJI	GATNN!NNATC	2	1582; 2779
BseLI	CCNNNNN!NNGG	24	49; 655; 674; 777; 805; 972; 1251; 1317; 1460; 1932; 2258; 2650; 2901; 3445; 3726; 3758; 3890; 3925; 3975; 4007; 4360; 4639; 4805; 4823
BseMI	GCAATGNN!	1	3153
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	4046
BseMII	!NNNNNNNNCTGAG	8	609; 726; 1111; 2391; 2693; 3574; 4146; 4555
BseNI	ACTGGN!	6	757; 1465; 1538; 2864; 3065; 4311
BseNI	C!CAGT	5	295; 1949; 2627; 4423; 4436
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2738
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	6	918; 945; 978; 2866; 2959; 4528
BseXI	GCAGCNNNNNNNN!	9	637; 1072; 1514; 1708; 2993; 3035; 3556; 4009; 4509
BseXI	!NNNNNNNNNNNGCTGC	8	760; 1191; 2202; 2867; 3051; 3144; 4210; 4416
BseX3I	C!GGCCG	2	1564; 2826
BseYI	C!CCAGC	4	1244; 2463; 2535; 4534
BseYI	G!CTGGG	2	1282; 3424
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	675
Bsh1236I	CG!CG	18	60; 633; 645; 730; 1569; 1844; 2220; 2240; 2264; 2295; 2986; 3287; 3725; 3809; 3872; 3941; 4214; 4795
Bsh1285I	CGRY!CG	4	856; 1567; 2829; 4504
BshFI	GG!CC	32	84; 277; 660; 678; 727; 840; 1012; 1255; 1290; 1324; 1347; 1369; 1479; 1521; 1566; 1886; 2028; 2683; 2689; 2698; 2741; 2828; 3002; 3393; 3420; 3929; 3986; 4019; 4364; 4798; 4816; 4827
BshNI	G!GYRCC	6	465; 915; 975; 2073; 2919; 2954
BshTI	A!CCGGT	1	851
BshVI	AT!CGAT	1	2760
BsiEI	CGRY!CG	4	856; 1567; 2829; 4504
BsiHKAI	GWGCW!C	5	826; 945; 3033; 3223; 4528
BsiHKCI	C!YCGRG	0	
BsiSI	C!CGG	22	817; 827; 832; 852; 1086; 1435; 2138; 2825; 2902; 2924; 2952; 3083; 3173; 3240; 3421; 3696; 3704; 3796; 4270; 4460; 4486; 4633
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	24	49; 655; 674; 777; 805; 972; 1251; 1317; 1460; 1932; 2258; 2650; 2901; 3445; 3726; 3758; 3890; 3925; 3975; 4007; 4360; 4639; 4805; 4823
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3071; 3603; 3712
BsIFI	!NNNNNNNNNNNNNGTCCC	5	632; 2436; 2508; 2572; 3867
BsmI	GAATGCN!	1	1671

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BsmI	G!CATTC	1	1764
BsmAI	GTCTCN!	2	434; 767
BsmAI	!NNNNNGAGAC	7	1293; 1383; 1482; 2344; 2762; 3781; 3909
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	1293
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3071; 3603; 3712
BsmFI	!NNNNNNNNNNNNNGTCCC	5	632; 2436; 2508; 2572; 3867
BsnI	GG!CC	32	84; 277; 660; 678; 727; 840; 1012; 1255; 1290; 1324; 1347; 1369; 1479; 1521; 1566; 1886; 2028; 2683; 2689; 2698; 2741; 2828; 3002; 3393; 3420; 3929; 3986; 4019; 4364; 4798; 4816; 4827
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	1383; 1482; 3909
BsoBI	C!YCGRG	0	
Bsp13I	T!CCGGA	1	826
Bsp19I	C!CATGG	4	360; 862; 2649; 3352
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3723
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	4144; 4322
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4176; 4354
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3691
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	3602
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	21	585; 845; 1375; 1401; 1577; 2757; 2761; 2780; 3091; 3169; 3250; 3259; 3337; 3713; 3729; 4088; 4100; 4178; 4186; 4197; 4272
Bsp1286I	GDGCH!C	12	826; 918; 945; 978; 2111; 2866; 2959; 3033; 3223; 3285; 3995; 4528
Bsp1407I	T!GTACA	1	904
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 612; 631; 665; 728; 740; 771; 796; 799; 1174; 1312; 1414; 1567; 2235; 2238; 2252; 2342; 2590; 2602; 2611; 2623; 2633; 2644; 2690; 2829; 2892; 3394; 3439; 3505; 3531; 3656; 3659; 3807; 3939; 4246; 4390; 4886
BspACI	G!CGG	30	370; 403; 528; 622; 656; 781; 1009; 1321; 1363; 1563; 2180; 2207; 2295; 2405; 2986; 3050; 3151; 3154; 3434; 3489; 3587; 3725; 3872; 4012; 4255; 4500; 4621; 4640; 4767; 4795
BspCNI	CTCAGNNNNNNNN!	1	4045
BspCNI	!NNNNNNCTGAG	8	610; 727; 1112; 2392; 2694; 3575; 4147; 4556
BspDI	AT!CGAT	1	2760
BspD6I	GACTCNNNN!	5	418; 1579; 1993; 3599; 4476
BspD6I	!NNNNNGAGTC	4	753; 1134; 1956; 2388
BspEI	T!CCGGA	1	826
BspFNI	CG!CG	18	60; 633; 645; 730; 1569; 1844; 2220; 2240; 2264; 2295; 2986; 3287; 3725; 3809; 3872; 3941; 4214; 4795
BspHI	T!CATGA	2	2346; 4118
BspLI	GGN!NCC	20	467; 610; 839; 847; 917; 977; 1368; 2075; 2096; 2108; 2299; 2460; 2532; 2921; 2956; 3804; 3883; 3928; 4771; 4810
BspMI	ACCTGCNNNN!	2	3188; 3638
BspMI	!NNNNNNNGCAGGT	1	2807
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	853; 2788; 3099; 3345; 3737; 4096; 4194; 4280
BspPI	!NNNNNGATCC	7	580; 840; 1396; 3164; 3708; 4095; 4192
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	2	3264; 3474
BspTI	C!TTAAG	1	1802
BspT104I	TT!CGAA	1	3602
BspT107I	G!GYRCC	6	465; 915; 975; 2073; 2919; 2954
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	1383; 1482; 3909
BsrI	ACTGGN!	6	757; 1465; 1538; 2864; 3065; 4311
BsrI	C!CAGT	5	295; 1949; 2627; 4423; 4436
BsrBI	CCG!CTC	3	614; 2344; 3533
BsrBI	GAG!CGG	4	622; 1563; 2180; 3587
BsrDI	GCAATGNN!	1	3153
BsrDI	!CATTGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrFI	R!CCGGY	5	851; 2137; 3239; 3420; 3703
BsrGI	T!GTACA	1	904
BsrSI	ACTGGN!	6	757; 1465; 1538; 2864; 3065; 4311
BsrSI	C!CAGT	5	295; 1949; 2627; 4423; 4436
BssAI	R!CCGGY	5	851; 2137; 3239; 3420; 3703
BssECI	C!CNNGG	21	360; 695; 817; 841; 862; 949; 1180; 2454; 2526; 2649; 2684; 2693; 2742; 3083; 3352; 3757; 3884; 3885; 3987; 3988; 4678
BssHII	G!CGCGC	0	
BssKI	!CCNGG	24	88; 281; 638; 718; 816; 1036; 1085; 1180; 1195; 1324; 1433; 2454; 2509; 2526; 2922; 3082; 3305; 3695; 3884; 3987; 4459; 4677; 4690; 4811
BssMI	!GATC	21	585; 845; 1375; 1401; 1577; 2757; 2761; 2780; 3091; 3169; 3250; 3259; 3337; 3713; 3729; 4088; 4100; 4178; 4186; 4197; 4272
BssNI	GR!CGYC	9	122; 175; 258; 444; 700; 1438; 2920; 3622; 3701
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1506; 3638; 4665
BssSI	C!TCGTG	3	672; 1356; 3512
BssTII	C!CWWGG	8	360; 695; 841; 862; 2649; 2742; 3352; 3757
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	3	2387; 3264; 3474
Bst98I	C!TTAAG	1	1802
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 700; 1438; 2920; 3622; 3701
BstAFI	C!TTAAG	1	1802
BstAPI	GCANNNN!NTGC	3	2487; 2559; 4021
BstAUI	T!GTACA	1	904
BstBI	TT!CGAA	1	3602
Bst2BI	C!ACGAG	3	1506; 3638; 4665
Bst2BI	C!TCGTG	3	672; 1356; 3512
BstBAI	YAC!GTR	3	340; 2036; 3224
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 792; 920; 2011; 3300; 3416; 3524; 3847; 4338; 4808; 4879
BstC8I	GCN!NGC	36	86; 279; 593; 658; 662; 669; 725; 744; 873; 963; 1167; 2139; 2182; 2196; 2469; 2488; 2541; 2560; 2814; 3000; 3219; 3285; 3291; 3319; 3323; 3364; 3368; 3422; 3705; 3892; 3939; 3995; 4017; 4228; 4788; 4825
BstDEI	C!TNAG	9	618; 735; 1120; 2400; 2702; 3583; 4032; 4155; 4564
BstDSI	C!CRYGG	4	360; 862; 2649; 3352
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2780; 3237; 3262; 3716
BstF5I	!CATCC	4	945; 1033; 1090; 2606
BstFNI	CG!CG	18	60; 633; 645; 730; 1569; 1844; 2220; 2240; 2264; 2295; 2986; 3287; 3725; 3809; 3872; 3941; 4214; 4795
BstH2I	RGCGC!Y	6	631; 1543; 2187; 2195; 2923; 4598
BstHHI	GCG!C	25	630; 645; 687; 1335; 1542; 2186; 2194; 2220; 2242; 2251; 2264; 2295; 2914; 2922; 2986; 3023; 3289; 3549; 3725; 3811; 4214; 4323; 4497; 4597; 4664
BstKTI	GAT!C	21	588; 848; 1378; 1404; 1580; 2760; 2764; 2783; 3094; 3172; 3253; 3262; 3340; 3716; 3732; 4091; 4103; 4181; 4189; 4200; 4275
BstMAI	GTCTCN!	2	434; 767
BstMAI	!NNNNGAGAC	7	1293; 1383; 1482; 2344; 2762; 3781; 3909
BstMBI	!GATC	21	585; 845; 1375; 1401; 1577; 2757; 2761; 2780; 3091; 3169; 3250; 3259; 3337; 3713; 3729; 4088; 4100; 4178; 4186; 4197; 4272
BstMCI	CGRY!CG	4	856; 1567; 2829; 4504
BstMWI	GCNNNNN!NNGC	30	90; 212; 244; 283; 376; 400; 608; 684; 736; 899; 1330; 2147; 2177; 2204; 2246; 2487; 2559; 2610; 2689; 2911; 2995; 3018; 3157; 3280; 3363; 3630; 3817; 4021; 4220; 4792
BstNI	CC!WGG	17	90; 283; 640; 720; 1038; 1182; 1197; 1326; 2456; 2511; 2528; 3307; 3886; 3989; 4679; 4692; 4813
BstNSI	RCATG!Y	6	893; 1339; 2490; 2562; 3325; 4842
BstOI	CC!WGG	17	90; 283; 640; 720; 1038; 1182; 1197; 1326; 2456; 2511; 2528; 3307; 3886; 3989; 4679; 4692; 4813
BstPI	G!GTNACC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstPAI	GACNN!NNGTC	1	1494
BstSCI	!CCNGG	24	88; 281; 638; 718; 816; 1036; 1085; 1180; 1195; 1324; 1433; 2454; 2509; 2526; 2922; 3082; 3305; 3695; 3884; 3987; 4459; 4677; 4690; 4811
BstSFI	C!TRYAG	5	651; 774; 2255; 4382; 4573
BstSLI	GKGCMI!C	6	918; 945; 978; 2866; 2959; 4528
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	18	60; 633; 645; 730; 1569; 1844; 2220; 2240; 2264; 2295; 2986; 3287; 3725; 3809; 3872; 3941; 4214; 4795
Bst2UI	CC!WGG	17	90; 283; 640; 720; 1038; 1182; 1197; 1326; 2456; 2511; 2528; 3307; 3886; 3989; 4679; 4692; 4813
BstV1I	GCAGCNNNNNNNN!	9	637; 1072; 1514; 1708; 2993; 3035; 3556; 4009; 4509
BstV1I	!NNNNNNNNNNNGCTGC	8	760; 1191; 2202; 2867; 3051; 3144; 4210; 4416
BstV2I	GAAGACNN!	1	1162
BstV2I	!NNNNNNNGCTTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	10	585; 845; 1401; 3091; 3337; 3729; 4088; 4100; 4186; 4197
BstYI	R!GATCY	10	585; 845; 1401; 3091; 3337; 3729; 4088; 4100; 4186; 4197
BstZI	C!GGCCG	2	1564; 2826
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2349; 3139; 4640
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2760
Bsu36I	CC!TNAGG	3	1120; 2400; 4032
BsuRI	GG!CC	32	84; 277; 660; 678; 727; 840; 1012; 1255; 1290; 1324; 1347; 1369; 1479; 1521; 1566; 1886; 2028; 2683; 2689; 2698; 2741; 2828; 3002; 3393; 3420; 3929; 3986; 4019; 4364; 4798; 4816; 4827
BsuTUI	AT!CGAT	1	2760
BtgI	C!CRYGG	4	360; 862; 2649; 3352
BtgZI	GCGATGNNNNNNNNNN!	3	648; 2037; 3372
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3191; 3535
BthCI	GCNG!C	45	614; 625; 628; 633; 667; 730; 742; 776; 784; 798; 801; 1012; 1063; 1207; 1324; 1505; 1569; 1699; 2218; 2240; 2254; 2692; 2831; 2883; 2894; 2984; 2989; 3026; 3067; 3154; 3157; 3160; 3396; 3492; 3533; 3547; 3661; 4000; 4015; 4226; 4432; 4435; 4500; 4643; 4798
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1759
BtsCI	GGATGNN!	4	2780; 3237; 3262; 3716
BtsCI	!CATCC	4	945; 1033; 1090; 2606
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3188; 3638
BveI	!NNNNNNNNNGCAGGT	1	2807
Cac8I	GCN!NGC	36	86; 279; 593; 658; 662; 669; 725; 744; 873; 963; 1167; 2139; 2182; 2196; 2469; 2488; 2541; 2560; 2814; 3000; 3219; 3285; 3291; 3319; 3323; 3364; 3368; 3422; 3705; 3892; 3939; 3995; 4017; 4228; 4788; 4825
CaiI	CAGNNN!CTG	2	4021; 4429
CciI	T!CATGA	2	2346; 4118
CciNI	GC!GGCCGC	1	1564
CdiI	CATC!G	6	352; 806; 3209; 3214; 3412; 3553
CdiI	C!GATG	5	634; 1303; 1484; 2023; 3358
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4792
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2581; 2623
CelII	GC!TNAGC	0	
CfoI	GCG!C	25	630; 645; 687; 1335; 1542; 2186; 2194; 2220; 2242; 2251; 2264; 2295; 2914; 2922; 2986; 3023; 3289; 3549; 3725; 3811; 4214; 4323; 4497; 4597; 4664
CfrI	Y!GGCCR	8	676; 725; 1519; 1564; 2826; 3000; 3391; 3418
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	5	851; 2137; 3239; 3420; 3703
Cfr13I	G!GNCC	16	83; 276; 658; 829; 838; 1011; 1254; 1346; 1367; 1451; 2027; 3436; 3881; 3927; 3985; 4018
Cfr42I	CCGC!GG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
ChaI	GATC!	21	589; 849; 1379; 1405; 1581; 2761; 2765; 2784; 3095; 3173; 3254; 3263; 3341; 3717; 3733; 4092; 4104; 4182; 4190; 4201; 4276
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	957; 2737; 4177; 4277; 4355
CjeI	!NNNNNNNNNACNNNNNTGG	7	64; 257; 2404; 2499; 3691; 4241; 4796
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2438; 2533; 3725; 4275; 4830
CjeI	!NNNNNNNNCCANNNNNNGT	5	923; 2703; 4143; 4243; 4321
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	2	4177; 4355
CjePI	!NNNNNNNGANNNNNNNTGG	3	257; 3691; 4290
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	3	290; 3724; 4323
CjePI	!NNNNNNNCCANNNNNNTC	2	4144; 4322
Clal	AT!CGAT	1	2760
CpoI	CG!GWCCG	2	829; 3436
CseI	GACGCNNNNN!	3	526; 3630; 3709
CseI	!NNNNNNNNNNGCGTC	6	634; 689; 1427; 2253; 4148; 4726
CsiI	A!CCWGGT	1	2509
CspI	CG!GWCCG	2	829; 3436
Csp6I	G!TAC	10	218; 243; 298; 331; 382; 539; 905; 1055; 1307; 3225
Csp45I	TT!CGAA	1	3602
CspAI	A!CCGGT	1	851
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	907; 1498; 2200; 3809
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	25	301; 361; 596; 863; 890; 896; 908; 986; 1052; 1132; 1336; 1343; 2347; 2487; 2559; 2650; 2791; 3136; 3322; 3353; 3379; 3735; 4119; 4839; 4890
CviJI	RG!CY	102	42; 84; 93; 277; 566; 602; 611; 660; 678; 723; 727; 739; 784; 824; 840; 875; 902; 965; 1012; 1041; 1048; 1126; 1192; 1204; 1248; 1255; 1282; 1290; 1324; 1347; 1355; 1369; 1479; 1515; 1521; 1566; 1589; 1699; 1866; 1886; 2028; 2109; 2123; 2137; 2418; 2459; 2531; 2654; 2683; 2689; 2698; 2706; 2729; 2741; 2747; 2828; 2845; 2853; 2880; 2905; 2989; 2998; 3002; 3026; 3064; 3140; 3157; 3176; 3239; 3283; 3293; 3310; 3393; 3420; 3424; 3461; 3484; 3500; 3680; 3707; 3768; 3890; 3929; 3986; 3993; 4000; 4019; 4030; 4281; 4310; 4353; 4364; 4429; 4508; 4533; 4538; 4584; 4674; 4772; 4798; 4816; 4827
CviKI-1	RG!CY	102	42; 84; 93; 277; 566; 602; 611; 660; 678; 723; 727; 739; 784; 824; 840; 875; 902; 965; 1012; 1041; 1048; 1126; 1192; 1204; 1248; 1255; 1282; 1290; 1324; 1347; 1355; 1369; 1479; 1515; 1521; 1566; 1589; 1699; 1866; 1886; 2028; 2109; 2123; 2137; 2418; 2459; 2531; 2654; 2683; 2689; 2698; 2706; 2729; 2741; 2747; 2828; 2845; 2853; 2880; 2905; 2989; 2998; 3002; 3026; 3064; 3140; 3157; 3176; 3239; 3283; 3293; 3310; 3393; 3420; 3424; 3461; 3484; 3500; 3680; 3707; 3768; 3890; 3929; 3986; 3993; 4000; 4019; 4030; 4281; 4310; 4353; 4364; 4429; 4508; 4533; 4538; 4584; 4674; 4772; 4798; 4816; 4827
CviQI	G!TAC	10	218; 243; 298; 331; 382; 539; 905; 1055; 1307; 3225
DdeI	C!TNAG	9	618; 735; 1120; 2400; 2702; 3583; 4032; 4155; 4564
DinI	GGC!GCC	1	2921
DpnI	GA!TC	21	587; 847; 1377; 1403; 1579; 2759; 2763; 2782; 3093; 3171; 3252; 3261; 3339; 3715; 3731; 4090; 4102; 4180; 4188; 4199; 4274
DpnII	!GATC	21	585; 845; 1375; 1401; 1577; 2757; 2761; 2780; 3091; 3169; 3250; 3259; 3337; 3713; 3729; 4088; 4100; 4178; 4186; 4197; 4272
DraI	TTT!AAA	3	1622; 4064; 4083
DraII	RG!GNCCY	1	4018
DraIII	CACNNN!GTG	2	1511; 2036
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 1102; 4400
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1991; 2947; 4736
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1991; 2947; 4736

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EaeI	Y!GGCCR	8	676; 725; 1519; 1564; 2826; 3000; 3391; 3418
EagI	C!GGCCG	2	1564; 2826
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2387; 3264; 3474
Eam1105I	GACNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	2387; 3264; 3474
EciI	GGCGGANNNNNNNNNN!	4	2420; 3449; 4636; 4782
EciI	!NNNNNNNNNTCCGCC	4	496; 2591; 2612; 2633
Ecl136II	GAG!CTC	1	824
EclXI	C!GGCCG	2	1564; 2826
Eco24I	GRGCY!C	4	826; 2111; 3285; 3995
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	3	1383; 1482; 3909
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	829; 1451; 3436; 3881
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	2	1564; 2826
Eco57I	CTGAAGNNNNNNNNNNNN!	3	1371; 3066; 3498
Eco57I	!NNNNNNNNNNNNCTTCAG	1	4296
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	1120; 2400; 4032
Eco88I	C!YCGRG	0	
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	8	360; 695; 841; 862; 2649; 2742; 3352; 3757
Eco147I	AGG!CCT	2	1290; 2741
EcoHI	!CCSGG	7	816; 1085; 1433; 2922; 3082; 3695; 4459
EcoICRI	GAG!CTC	1	824
Eco57MI	CTGRAGNNNNNNNNNNNN!	4	1371; 3066; 3498; 3760
Eco57MI	!NNNNNNNNNNNNNCTYCAG	3	1179; 3703; 4296
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	4018
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	17	88; 281; 638; 718; 1036; 1180; 1195; 1324; 2454; 2509; 2526; 3305; 3884; 3987; 4677; 4690; 4811
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	8	360; 695; 841; 862; 2649; 2742; 3352; 3757
EcoT22I	ATGCA!T	3	2492; 2564; 4895
EcoT38I	GRGCY!C	4	826; 2111; 3285; 3995
Eco53kI	GAG!CTC	1	824
EgeI	GGC!GCC	1	2921
EheI	GGC!GCC	1	2921
ErhI	C!CWWGG	8	360; 695; 841; 862; 2649; 2742; 3352; 3757
EsaBC3I	TC!GA	15	787; 1004; 1031; 1499; 2070; 2761; 3034; 3190; 3214; 3250; 3412; 3603; 3648; 3903; 4741
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNGAGACG	1	1293
FaeI	CATG!	25	304; 364; 599; 866; 893; 899; 911; 989; 1055; 1135; 1339; 1346; 2350; 2490; 2562; 2653; 2794; 3139; 3325; 3356; 3382; 3738; 4122; 4842; 4893
Fail	YA!TR	63	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 597; 864; 891; 897; 909; 987; 1053; 1133; 1151; 1337; 1344; 1397; 1582; 1592; 1658; 1703; 1908; 2336; 2348; 2479; 2488; 2551; 2560; 2584; 2651; 2675; 2792; 2856; 3137; 3162; 3323; 3354; 3380; 3452; 3668; 3736; 3814; 3866; 4027; 4044; 4046; 4048; 4120; 4398; 4587; 4703; 4776; 4840; 4891
FalI	AAGNNNNNCTNNNNNNNNNN!	2	1130; 3260
FalI	!NNNNNNNNAAGNNNNNCTT	2	1098; 3228
FaqI	GGGACNNNNNNNN!	6	175; 326; 494; 3071; 3603; 3712
FaqI	!NNNNNNNNNNNNGTCCC	5	632; 2436; 2508; 2572; 3867
FatI	!CATG	25	300; 360; 595; 862; 889; 895; 907; 985; 1051; 1131; 1335; 1342; 2346; 2486; 2558; 2649; 2790; 3135; 3321; 3352; 3378; 3734; 4118; 4838; 4889
FauI	CCCGCNNNN!	10	93; 119; 286; 1319; 1421; 2242; 2597; 2618; 3814; 3946

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FauI	!NNNNNNGCGGG	7	649; 1356; 2173; 3043; 3580; 3718; 3865
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FbII	GT!MKAC	1	1441
FmuI	GGNC!C	16	86; 279; 661; 832; 841; 1014; 1257; 1349; 1370; 1454; 2030; 3439; 3884; 3930; 3988; 4021
Fnu4HI	GC!NGC	45	612; 623; 626; 631; 665; 728; 740; 774; 782; 796; 799; 1010; 1061; 1205; 1322; 1503; 1567; 1697; 2216; 2238; 2252; 2690; 2829; 2881; 2892; 2982; 2987; 3024; 3065; 3152; 3155; 3158; 3394; 3490; 3531; 3545; 3659; 3998; 4013; 4224; 4430; 4433; 4498; 4641; 4796
FokI	GGATGNNNNNNNN!	4	2787; 3244; 3269; 3723
FokI	!NNNNNNNNNNNNNNCATCC	4	932; 1020; 1077; 2593
FriOI	GRGCY!C	4	826; 2111; 3285; 3995
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3022
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 1575; 1769; 2187; 2743; 3758; 4092; 4345
FspEI	CCNNNNNNNNNNNN!	168	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 625; 644; 662; 678; 692; 708; 732; 747; 761; 779; 809; 827; 845; 862; 907; 932; 962; 979; 993; 1026; 1040; 1058; 1082; 1096; 1127; 1160; 1187; 1202; 1221; 1257; 1304; 1323; 1338; 1361; 1383; 1398; 1418; 1437; 1467; 1493; 1535; 1580; 1603; 1642; 1656; 1797; 1892; 1916; 1939; 1962; 1980; 2002; 2023; 2042; 2061; 2090; 2111; 2125; 2151; 2239; 2265; 2314; 2355; 2373; 2412; 2428; 2466; 2523; 2538; 2595; 2615; 2629; 2646; 2660; 2697; 2712; 2755; 2838; 2905; 2936; 2956; 2971; 3016; 3030; 3096; 3110; 3129; 3145; 3186; 3206; 3253; 3303; 3319; 3339; 3364; 3384; 3407; 3434; 3452; 3478; 3518; 3544; 3568; 3624; 3638; 3666; 3709; 3730; 3765; 3809; 3897; 3921; 3943; 3963; 3979; 4000; 4014; 4033; 4117; 4137; 4165; 4180; 4214; 4256; 4283; 4298; 4343; 4367; 4381; 4403; 4429; 4449; 4473; 4499; 4547; 4566; 4585; 4611; 4646; 4691; 4721; 4735; 4786; 4800; 4825; 4841; 4862; 4891
FspEI	!NNNNNNNNNNNNNNNGG	137	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 584; 607; 625; 660; 682; 705; 738; 762; 790; 812; 837; 867; 894; 936; 957; 981; 1023; 1042; 1071; 1107; 1144; 1167; 1186; 1209; 1237; 1264; 1303; 1329; 1348; 1420; 1446; 1494; 1519; 1537; 1591; 1691; 1760; 1790; 1868; 1917; 1939; 1967; 2003; 2048; 2077; 2113; 2132; 2160; 2180; 2243; 2266; 2374; 2406; 2424; 2453; 2496; 2525; 2636; 2665; 2708; 2729; 2757; 2790; 2810; 2835; 2862; 2887; 2909; 2937; 2963; 2984; 3035; 3056; 3074; 3122; 3158; 3214; 3239; 3263; 3292; 3315; 3339; 3365; 3387; 3406; 3431; 3471; 3507; 3572; 3657; 3681; 3710; 3744; 3765; 3785; 3830; 3857; 3876; 3909; 3961; 3992; 4019; 4071; 4169; 4240; 4285; 4346; 4411; 4445; 4471; 4489; 4525; 4595; 4618; 4640; 4664; 4697; 4745; 4780; 4798; 4855
Fsp4HI	GC!NGC	45	612; 623; 626; 631; 665; 728; 740; 774; 782; 796; 799; 1010; 1061; 1205; 1322; 1503; 1567; 1697; 2216; 2238; 2252; 2690; 2829; 2881; 2892; 2982; 2987; 3024; 3065; 3152; 3155; 3158; 3394; 3490; 3531; 3545; 3659; 3998; 4013; 4224; 4430; 4433; 4498; 4641; 4796
GdiII	C!GGCCR	2	1564; 2826
GdiII	Y!GGCCG	6	676; 725; 1564; 2826; 3391; 3418
GlaI	GC!GC	25	629; 644; 686; 1334; 1541; 2185; 2193; 2219; 2241; 2250; 2263; 2294; 2913; 2921; 2985; 3022; 3288; 3548; 3724; 3810; 4213; 4322; 4496; 4596; 4663
GluI	GC!NGC	45	612; 623; 626; 631; 665; 728; 740; 774; 782; 796; 799; 1010; 1061; 1205; 1322; 1503; 1567; 1697; 2216; 2238; 2252; 2690; 2829; 2881; 2892; 2982; 2987; 3024; 3065; 3152; 3155; 3158; 3394; 3490; 3531; 3545; 3659; 3998; 4013; 4224; 4430; 4433; 4498; 4641; 4796
GsaI	CCCAG!C	4	1248; 2467; 2539; 4538
GsaI	GCTGG!G	2	1286; 3428
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3760
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	1179; 3703
HaeI	WGG!CCW	7	1290; 1521; 2741; 3002; 4364; 4816; 4827
HaeII	RGCGC!Y	6	631; 1543; 2187; 2195; 2923; 4598

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIII	GG!CC	32	84; 277; 660; 678; 727; 840; 1012; 1255; 1290; 1324; 1347; 1369; 1479; 1521; 1566; 1886; 2028; 2683; 2689; 2698; 2741; 2828; 3002; 3393; 3420; 3929; 3986; 4019; 4364; 4798; 4816; 4827
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	1595; 3116
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1561; 3082
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	1594; 3115
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1563; 3084
HapII	C!CGG	22	817; 827; 832; 852; 1086; 1435; 2138; 2825; 2902; 2924; 2952; 3083; 3173; 3240; 3421; 3696; 3704; 3796; 4270; 4460; 4486; 4633
HgaI	GACGCNNNNN!	3	526; 3630; 3709
HgaI	!NNNNNNNNNNGCGTC	6	634; 689; 1427; 2253; 4148; 4726
HhaI	GCG!C	25	630; 645; 687; 1335; 1542; 2186; 2194; 2220; 2242; 2251; 2264; 2295; 2914; 2922; 2986; 3023; 3289; 3549; 3725; 3811; 4214; 4323; 4497; 4597; 4664
HinI	GR!CGYC	9	122; 175; 258; 444; 700; 1438; 2920; 3622; 3701
Hin1II	CATG!	25	304; 364; 599; 866; 893; 899; 911; 989; 1055; 1135; 1339; 1346; 2350; 2490; 2562; 2653; 2794; 3139; 3325; 3356; 3382; 3738; 4122; 4842; 4893
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1594; 3115
Hin4I	!NNNNNNNNGABNNNNNRTC	3	1562; 3083; 3113
Hin4I	GABNNNNNRTCNNNNNNNNNNN!	3	1594; 3115; 3145
Hin4I	!NNNNNNNGAYNNNNNVTC	2	1562; 3083
Hin6I	G!CGC	25	628; 643; 685; 1333; 1540; 2184; 2192; 2218; 2240; 2249; 2262; 2293; 2912; 2920; 2984; 3021; 3287; 3547; 3723; 3809; 4212; 4321; 4495; 4595; 4662
HinP1I	G!CGC	25	628; 643; 685; 1333; 1540; 2184; 2192; 2218; 2240; 2249; 2262; 2293; 2912; 2920; 2984; 3021; 3287; 3547; 3723; 3809; 4212; 4321; 4495; 4595; 4662
HincII	GTY!RAC	1	1683
HindII	GTY!RAC	1	1683
HindIII	A!AGCTT	0	
HinfI	G!ANTC	16	410; 760; 991; 1141; 1468; 1571; 1963; 1985; 2395; 3405; 3539; 3591; 3649; 3686; 4468; 4864
HpaI	GTT!AAC	1	1683
HpaII	C!CGG	22	817; 827; 832; 852; 1086; 1435; 2138; 2825; 2902; 2924; 2952; 3083; 3173; 3240; 3421; 3696; 3704; 3796; 4270; 4460; 4486; 4633
HphI	GGTGANNNNNNNN!	6	376; 878; 1247; 1557; 3991; 4107
HphI	!NNNNNNNTCACC	4	695; 1136; 2037; 3098
Hpy8I	GTN!NAC	14	201; 539; 577; 713; 923; 943; 1238; 1442; 1451; 1683; 1967; 1984; 2039; 4526
Hpy99I	CGWCG!	10	1005; 1485; 1500; 3010; 3038; 3332; 3347; 3624; 4009; 4742
Hpy166II	GTN!NAC	14	201; 539; 577; 713; 923; 943; 1238; 1442; 1451; 1683; 1967; 1984; 2039; 4526
Hpy188I	TCN!GA	13	585; 759; 950; 2094; 2703; 2887; 3231; 3584; 3685; 4164; 4298; 4651; 4729
Hpy188III	TC!NNGA	24	606; 617; 827; 1427; 1575; 2347; 2399; 2712; 2765; 2938; 3254; 3263; 3346; 3402; 3446; 3536; 3569; 3638; 4119; 4193; 4276; 4374; 4472; 4606
HpyAV	CCTCNNNNNN!	6	1031; 1079; 1124; 3565; 3672; 4351
HpyAV	!NNNNNGAAGG	9	951; 1323; 2153; 3048; 3777; 3793; 3976; 4293; 4603
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 792; 920; 2011; 3300; 3416; 3524; 3847; 4338; 4808; 4879
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 1219; 1447; 1495; 1980; 1992; 2035; 2145; 3036; 3223; 4004; 4137
HpyCH4V	TG!CA	21	692; 776; 943; 1265; 1381; 1669; 1696; 1764; 2481; 2490; 2553; 2562; 2677; 2753; 2812; 2971; 3146; 3160; 4230; 4526; 4893
HpyF3I	C!TNAG	9	618; 735; 1120; 2400; 2702; 3583; 4032; 4155; 4564
HpyF10VI	GCNNNNN!NNGC	30	90; 212; 244; 283; 376; 400; 608; 684; 736; 899; 1330; 2147; 2177; 2204; 2246; 2487; 2559; 2610; 2689; 2911; 2995; 3018; 3157; 3280; 3363; 3630; 3817; 4021; 4220; 4792
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 700; 1438; 2920; 3622; 3701
Hsp92II	CATG!	25	304; 364; 599; 866; 893; 899; 911; 989; 1055; 1135; 1339; 1346; 2350; 2490; 2562; 2653; 2794; 3139; 3325; 3356; 3382; 3738; 4122; 4842; 4893

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HspAI	G!CGC	25	628; 643; 685; 1333; 1540; 2184; 2192; 2218; 2240; 2249; 2262; 2293; 2912; 2920; 2984; 3021; 3287; 3547; 3723; 3809; 4212; 4321; 4495; 4595; 4662
KasI	G!GCGCC	1	2919
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	826
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1683
Kzo9I	!GATC	21	585; 845; 1375; 1401; 1577; 2757; 2761; 2780; 3091; 3169; 3250; 3259; 3337; 3713; 3729; 4088; 4100; 4178; 4186; 4197; 4272
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	3264; 3474
LpnI	RGC!GCGY	6	629; 1541; 2185; 2193; 2921; 4596
LpnPI	CCDGNNNNNNNNNN!	66	102; 295; 630; 652; 674; 732; 747; 830; 845; 865; 993; 1050; 1099; 1132; 1194; 1209; 1258; 1338; 1362; 1386; 1448; 1535; 1657; 1962; 2151; 2374; 2412; 2428; 2468; 2523; 2540; 2640; 2725; 2838; 2915; 2937; 2960; 3096; 3110; 3129; 3186; 3253; 3303; 3319; 3376; 3434; 3643; 3709; 3733; 3809; 3898; 4001; 4034; 4265; 4283; 4429; 4449; 4473; 4499; 4548; 4646; 4691; 4721; 4800; 4825; 4862
LpnPI	!NNNNNNNNNNNNNCHGG	58	75; 268; 552; 625; 705; 738; 762; 802; 837; 1023; 1071; 1167; 1268; 1311; 1420; 1446; 1519; 2003; 2123; 2180; 2243; 2441; 2453; 2513; 2525; 2757; 2802; 2845; 2887; 2909; 2937; 2984; 3046; 3068; 3158; 3225; 3248; 3292; 3387; 3406; 3431; 3580; 3681; 3724; 3781; 3871; 3974; 4001; 4019; 4255; 4292; 4445; 4471; 4611; 4629; 4664; 4745; 4798
Lsp1109I	GCAGCNNNNNNNN!	9	637; 1072; 1514; 1708; 2993; 3035; 3556; 4009; 4509
Lsp1109I	!NNNNNNNNNNNGCTGC	8	760; 1191; 2202; 2867; 3051; 3144; 4210; 4416
LweI	GCATCNNNNN!	7	1099; 1736; 2499; 2571; 3219; 3283; 3558
LweI	!NNNNNNNNNGATGC	8	357; 625; 1252; 1420; 2878; 3133; 3349; 4741
MabI	A!CCWGGT	1	2509
MaeI	C!TAG	8	592; 1575; 1769; 2187; 2743; 3758; 4092; 4345
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 1219; 1447; 1495; 1980; 1992; 2035; 2145; 3036; 3223; 4004; 4137
MaeIII	!GTNAC	15	61; 148; 497; 701; 1142; 1338; 1708; 2209; 2221; 3040; 3346; 4036; 4302; 4418; 4481
MalI	GA!TC	21	587; 847; 1377; 1403; 1579; 2759; 2763; 2782; 3093; 3171; 3252; 3261; 3339; 3715; 3731; 4090; 4102; 4180; 4188; 4199; 4274
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	3	614; 2344; 3533
MbiI	GAG!CGG	4	622; 1563; 2180; 3587
MboI	!GATC	21	585; 845; 1375; 1401; 1577; 2757; 2761; 2780; 3091; 3169; 3250; 3259; 3337; 3713; 3729; 4088; 4100; 4178; 4186; 4197; 4272
MboII	GAAGANNNNNNNN!	7	1167; 1280; 2176; 2404; 3281; 3491; 4110
MboII	!NNNNNNNTCTTC	4	3571; 3738; 3938; 4181
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1670
MfII	R!GATCY	10	585; 845; 1401; 3091; 3337; 3729; 4088; 4100; 4186; 4197
MhII	GDGCH!C	12	826; 918; 945; 978; 2111; 2866; 2959; 3033; 3223; 3285; 3995; 4528
MIsI	TGG!CCA	2	1521; 3002
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	1521; 3002
MlyI	GAGTCNNNNN!	4	769; 1150; 1972; 2404
MlyI	!NNNNNGACTC	5	404; 1565; 1979; 3585; 4462
Mly113I	GG!CGCC	1	2920
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	1	2013
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	3	737; 4445; 4629
MnII	CCTCNNNNNNN!	15	717; 824; 1024; 1093; 1203; 1218; 1301; 1434; 1639; 2703; 3521; 3727; 4041; 4411; 4735

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MnII	!NNNNNNGAGG	25	541; 592; 828; 905; 944; 965; 998; 1115; 1224; 1280; 1469; 1502; 1545; 1599; 2064; 2395; 2673; 2716; 2731; 2771; 2835; 2971; 3328; 3758; 4661
Mph1103I	ATGCA!T	3	2492; 2564; 4895
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	826
MroNI	G!CCGGC	3	2137; 3420; 3703
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	2	1521; 3002
MseI	T!TAA	17	7; 880; 1105; 1621; 1682; 1803; 1824; 1835; 1847; 1858; 1875; 1973; 2244; 4063; 4077; 4082; 4134
MslI	CAYNN!NNRTG	4	365; 864; 894; 3357
MspI	C!CGG	22	817; 827; 832; 852; 1086; 1435; 2138; 2825; 2902; 2924; 2952; 3083; 3173; 3240; 3421; 3696; 3704; 3796; 4270; 4460; 4486; 4633
Msp20I	TGG!CCA	2	1521; 3002
MspAII	CMG!CKG	7	656; 773; 1314; 2418; 3026; 4255; 4500
MspCI	C!TTAAG	1	1802
MspJI	CNNRRNNNNNNNN!	249	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; 618; 644; 662; 680; 708; 731; 746; 760; 779; 797; 818; 839; 853; 875; 888; 902; 920; 950; 968; 983; 998; 1016; 1049; 1064; 1088; 1107; 1131; 1144; 1160; 1178; 1192; 1208; 1221; 1235; 1256; 1269; 1290; 1309; 1323; 1337; 1355; 1368; 1385; 1398; 1412; 1425; 1439; 1460; 1473; 1492; 1511; 1534; 1555; 1580; 1593; 1608; 1627; 1644; 1657; 1698; 1712; 1725; 1743; 1781; 1796; 1814; 1855; 1879; 1899; 1917; 1938; 1961; 1993; 2008; 2030; 2048; 2061; 2082; 2099; 2112; 2125; 2141; 2154; 2184; 2199; 2224; 2242; 2255; 2270; 2294; 2308; 2332; 2357; 2373; 2411; 2427; 2466; 2480; 2494; 2522; 2538; 2552; 2566; 2595; 2608; 2629; 2638; 2660; 2690; 2706; 2724; 2754; 2777; 2801; 2825; 2844; 2872; 2898; 2914; 2927; 2950; 2964; 2984; 2997; 3011; 3030; 3044; 3057; 3073; 3088; 3101; 3117; 3132; 3148; 3173; 3192; 3208; 3221; 3234; 3252; 3266; 3280; 3296; 3318; 3334; 3353; 3375; 3391; 3414; 3433; 3447; 3463; 3477; 3497; 3513; 3526; 3548; 3581; 3595; 3615; 3628; 3642; 3696; 3709; 3732; 3745; 3764; 3781; 3808; 3844; 3877; 3896; 3921; 3942; 3969; 3982; 3999; 4013; 4028; 4044; 4104; 4129; 4145; 4167; 4180; 4194; 4225; 4239; 4264; 4282; 4297; 4310; 4329; 4342; 4357; 4386; 4405; 4423; 4448; 4463; 4482; 4498; 4517; 4535; 4551; 4565; 4584; 4611; 4634; 4656; 4675; 4690; 4703; 4720; 4740; 4767; 4780; 4799; 4824; 4847; 4861; 4874; 4891
MspJI	!NNNNNNNNNNNNNYNNG	206	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; 618; 643; 660; 682; 705; 722; 739; 763; 791; 812; 838; 858; 876; 894; 924; 948; 966; 990; 1009; 1031; 1062; 1081; 1105; 1138; 1167; 1209; 1231; 1264; 1284; 1311; 1329; 1346; 1364; 1392; 1413; 1434; 1458; 1480; 1503; 1520; 1546; 1572; 1601; 1630; 1672; 1755; 1790; 1817; 1840; 1869; 1913; 1935; 1967; 2003; 2020; 2041; 2078; 2098; 2115; 2132; 2167; 2185; 2203; 2220; 2244; 2266; 2293; 2321; 2347; 2385; 2406; 2423; 2441; 2464; 2485; 2513; 2536; 2557; 2575; 2596; 2613; 2636; 2660; 2680; 2698; 2720; 2751; 2773; 2799; 2818; 2835; 2863; 2882; 2901; 2919; 2937; 2958; 2980; 3004; 3037; 3057; 3075; 3096; 3122; 3149; 3166; 3183; 3200; 3226; 3248; 3270; 3288; 3308; 3327; 3349; 3387; 3407; 3431; 3451; 3471; 3498; 3522; 3555; 3574; 3602; 3624; 3653; 3681; 3706; 3725; 3744; 3765; 3782; 3799; 3830; 3857; 3877; 3900; 3920; 3957; 3974; 3993; 4019; 4039; 4078; 4105; 4124; 4142; 4179; 4197; 4238; 4256; 4282; 4299; 4331; 4360; 4388; 4409; 4432; 4451; 4472; 4490; 4507; 4525; 4551; 4572; 4592; 4612; 4630; 4651; 4677; 4694; 4713; 4732; 4761; 4780; 4798; 4817; 4835; 4853; 4876
MspR9I	CC!NGG	24	90; 283; 640; 720; 818; 1038; 1087; 1182; 1197; 1326; 1435; 2456; 2511; 2528; 2924; 3084; 3307; 3697; 3886; 3989; 4461; 4679; 4692; 4813
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1670
MvaI	CC!WGG	17	90; 283; 640; 720; 1038; 1182; 1197; 1326; 2456; 2511; 2528; 3307; 3886; 3989; 4679; 4692; 4813
MvaI269I	GAATGCN!	1	1671
MvaI269I	G!CATTC	1	1764

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MvnI	CG!CG	18	60; 633; 645; 730; 1569; 1844; 2220; 2240; 2264; 2295; 2986; 3287; 3725; 3809; 3872; 3941; 4214; 4795
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	30	90; 212; 244; 283; 376; 400; 608; 684; 736; 899; 1330; 2147; 2177; 2204; 2246; 2487; 2559; 2610; 2689; 2911; 2995; 3018; 3157; 3280; 3363; 3630; 3817; 4021; 4220; 4792
NaeI	GCC!GGC	3	2139; 3422; 3705
NarI	GG!CGCC	1	2920
NciI	CC!SGG	7	818; 1087; 1435; 2924; 3084; 3697; 4461
NcoI	C!CATGG	4	360; 862; 2649; 3352
NdeI	CA!TATG	1	234
NdeII	!GATC	21	585; 845; 1375; 1401; 1577; 2757; 2761; 2780; 3091; 3169; 3250; 3259; 3337; 3713; 3729; 4088; 4100; 4178; 4186; 4197; 4272
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	982
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	1018
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	2137; 3420; 3703
NheI	G!CTAGC	1	591
NlaII	CATG!	25	304; 364; 599; 866; 893; 899; 911; 989; 1055; 1135; 1339; 1346; 2350; 2490; 2562; 2653; 2794; 3139; 3325; 3356; 3382; 3738; 4122; 4842; 4893
NlaIV	GGN!NCC	20	467; 610; 839; 847; 917; 977; 1368; 2075; 2096; 2108; 2299; 2460; 2532; 2921; 2956; 3804; 3883; 3928; 4771; 4810
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1752; 2067; 3659
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 1242; 1528; 4731
Nlj3877I	CYCGR!G	0	
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2709; 3145
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1258; 2674
NmeDI	RCCGGYNNNNNNN!	5	863; 2149; 3251; 3432; 3715
NmeDI	!NNNNNNNNNNNNRCCGGY	5	838; 2124; 3226; 3407; 3690
NmuCI	!GTSAC	6	701; 1142; 1338; 2209; 3040; 3346
NotI	GC!GGCCGC	1	1564
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3022
NsiI	ATGCA!T	3	2492; 2564; 4895
NspI	RCATG!Y	6	893; 1339; 2490; 2562; 3325; 4842
NspV	TT!CGAA	1	3602
OliI	CACNN!NNGTG	1	864
PabI	GTA!C	10	220; 245; 300; 333; 384; 541; 907; 1057; 1309; 3227
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2490; 2562; 3325
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	2	2346; 4118
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3885; 3988
PauI	G!CGCGC	0	
PceI	AGG!CCT	2	1290; 2741
PciI	A!CATGT	1	4838
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3264; 3474
PcsI	WCGNNNN!NNNCGW	7	1504; 3214; 3291; 3534; 3608; 4001; 4519
PctI	GAATGCN!	1	1671
PctI	G!CATTC	1	1764
PdiI	GCC!GGC	3	2139; 3422; 3705
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	991; 1468; 3405; 3539; 3649; 3686; 4864
Pfi23II	C!GTACG	0	
Pfifi	GACN!NNGTC	1	3038
Pfimi	CCANNNN!NTGG	1	1460
PfoI	T!CCNGGA	2	1195; 3695
PhoI	GG!CC	32	84; 277; 660; 678; 727; 840; 1012; 1255; 1290; 1324; 1347; 1369; 1479; 1521; 1566; 1886; 2028; 2683; 2689; 2698; 2741; 2828; 3002; 3393; 3420; 3929; 3986; 4019; 4364; 4798; 4816; 4827

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PinAI	A!CCGGT	1	851
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	1	3301
PlaDI	!NNNNNNNNNNNNNNNNNNNNNNCTGATG	2	2866; 3121
PleI	GAGTCNNNN!	4	768; 1149; 1971; 2403
PleI	!NNNNNGACTC	5	404; 1565; 1979; 3585; 4462
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2002
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	4132
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4164
PpiI	!NNNNNNNGAACNNNNNCTC	1	1970
PpsI	GAGTCNNNN!	4	768; 1149; 1971; 2403
PpsI	!NNNNNGACTC	5	404; 1565; 1979; 3585; 4462
Ppu10I	A!TGCAT	3	2488; 2560; 4891
Ppu21I	YAC!GTR	3	340; 2036; 3224
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4838
PshAI	GACNN!NNGTC	1	1494
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1703; 1908
Psp03I	GGWC!C	4	832; 1454; 3439; 3884
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	17	88; 281; 638; 718; 1036; 1180; 1195; 1324; 2454; 2509; 2526; 3305; 3884; 3987; 4677; 4690; 4811
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	826
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	17	88; 281; 638; 718; 1036; 1180; 1195; 1324; 2454; 2509; 2526; 3305; 3884; 3987; 4677; 4690; 4811
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	20	467; 610; 839; 847; 917; 977; 1368; 2075; 2096; 2108; 2299; 2460; 2532; 2921; 2956; 3804; 3883; 3928; 4771; 4810
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 2650; 3649
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3052
PspPI	G!GNCC	16	83; 276; 658; 829; 838; 1011; 1254; 1346; 1367; 1451; 2027; 3436; 3881; 3927; 3985; 4018
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	2473; 2545; 4051
PspPRI	!NNNNNNNNNNNNNNNNNNCTGRGG	3	1106; 2386; 3581
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNTAC	0	
PssI	RGGNC!CY	1	4021
PstI	CTGCA!G	1	778
PstNI	CAGNNN!CTG	2	4021; 4429
PsuI	R!GATCY	10	585; 845; 1401; 3091; 3337; 3729; 4088; 4100; 4186; 4197
PsyI	GACN!NNGTC	1	3038
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2418; 3026
RcaI	T!CATGA	2	2346; 4118
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3435
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	1649
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	10	219; 244; 299; 332; 383; 540; 906; 1056; 1308; 3226
RsaNI	G!TAC	10	218; 243; 298; 331; 382; 539; 905; 1055; 1307; 3225
RseI	CAYNN!NNRTG	4	365; 864; 894; 3357
RsrII	CG!GWCCG	2	829; 3436
Rsr2I	CG!GWCCG	2	829; 3436
SacI	GAGCT!C	1	826
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	3264; 3474
SaqAI	T!TAA	17	7; 880; 1105; 1621; 1682; 1803; 1824; 1835; 1847; 1858; 1875; 1973; 2244; 4063; 4077; 4082; 4134
SatI	GC!NGC	45	612; 623; 626; 631; 665; 728; 740; 774; 782; 796; 799; 1010; 1061; 1205; 1322; 1503; 1567; 1697; 2216; 2238; 2252; 2690; 2829; 2881; 2892; 2982; 2987; 3024; 3065; 3152; 3155; 3158; 3394; 3490; 3531; 3545; 3659; 3998; 4013; 4224; 4430; 4433; 4498; 4641; 4796
Sau96I	G!GNCC	16	83; 276; 658; 829; 838; 1011; 1254; 1346; 1367; 1451; 2027; 3436; 3881; 3927; 3985; 4018
Sau3AI	!GATC	21	585; 845; 1375; 1401; 1577; 2757; 2761; 2780; 3091; 3169; 3250; 3259; 3337; 3713; 3729; 4088; 4100; 4178; 4186; 4197; 4272
Sbfl	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	769; 1150; 1972; 2404
SchI	!NNNNNGACTC	5	404; 1565; 1979; 3585; 4462
SciI	CTC!GAG	0	
ScrFI	CC!NGG	24	90; 283; 640; 720; 818; 1038; 1087; 1182; 1197; 1326; 1435; 2456; 2511; 2528; 2924; 3084; 3307; 3697; 3886; 3989; 4461; 4679; 4692; 4813
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	5	1292; 2498; 2570; 2739; 4681
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	595; 3075; 3560
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	12	826; 918; 945; 978; 2111; 2866; 2959; 3033; 3223; 3285; 3995; 4528
SelI	!CGCG	18	58; 631; 643; 728; 1567; 1842; 2218; 2238; 2262; 2293; 2984; 3285; 3723; 3807; 3870; 3939; 4212; 4793
SetI	ASST!	69	125; 137; 178; 261; 308; 342; 447; 552; 568; 697; 721; 736; 826; 877; 904; 1000; 1050; 1071; 1222; 1228; 1357; 1375; 1387; 1426; 1450; 1494; 1498; 1513; 1556; 1610; 1631; 1640; 1652; 1701; 1868; 1983; 1995; 2038; 2075; 2125; 2148; 2272; 2420; 2515; 2708; 2821; 2949; 3028; 3039; 3111; 3182; 3226; 3486; 3632; 3676; 4007; 4038; 4097; 4140; 4283; 4304; 4403; 4540; 4555; 4574; 4586; 4630; 4676; 4727
SexAI	A!CCWGGT	1	2509
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	1099; 1736; 2499; 2571; 3219; 3283; 3558
SfaNI	!NNNNNNNNNGATGC	8	357; 625; 1252; 1420; 2878; 3133; 3349; 4741
SfcI	C!TRYAG	5	651; 774; 2255; 4382; 4573
SfiI	GGCCNNNN!NGGCC	1	2695
SfoI	GGC!GCC	1	2921
Sfr274I	C!TCGAG	0	
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	1	3602

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	197	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 618; 644; 669; 684; 708; 731; 746; 765; 789; 818; 839; 854; 875; 902; 920; 950; 974; 992; 1007; 1049; 1064; 1088; 1107; 1131; 1144; 1172; 1193; 1208; 1235; 1257; 1290; 1310; 1323; 1337; 1355; 1368; 1385; 1398; 1418; 1439; 1460; 1473; 1511; 1534; 1555; 1580; 1627; 1656; 1698; 1781; 1855; 1939; 1961; 1993; 2030; 2048; 2067; 2082; 2124; 2141; 2158; 2193; 2207; 2224; 2246; 2270; 2294; 2359; 2373; 2411; 2427; 2467; 2480; 2499; 2522; 2539; 2552; 2571; 2601; 2622; 2639; 2662; 2697; 2724; 2755; 2777; 2803; 2825; 2844; 2872; 2908; 2927; 2950; 2964; 2984; 2997; 3011; 3030; 3044; 3063; 3095; 3109; 3122; 3148; 3179; 3192; 3209; 3226; 3240; 3257; 3275; 3290; 3318; 3334; 3353; 3375; 3391; 3414; 3433; 3458; 3477; 3497; 3524; 3548; 3581; 3600; 3628; 3642; 3708; 3732; 3747; 3770; 3791; 3808; 3856; 3883; 3897; 3926; 3950; 3983; 4000; 4020; 4033; 4046; 4104; 4131; 4150; 4180; 4205; 4225; 4239; 4264; 4282; 4319; 4357; 4386; 4414; 4428; 4448; 4463; 4484; 4498; 4517; 4535; 4551; 4591; 4611; 4638; 4656; 4677; 4690; 4703; 4720; 4744; 4767; 4799; 4824; 4851; 4873
SgeI	!NNNNNNNNNNNNCNG	173	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 603; 625; 643; 660; 682; 705; 729; 763; 792; 813; 838; 858; 876; 894; 924; 948; 966; 990; 1023; 1062; 1081; 1105; 1146; 1167; 1209; 1231; 1264; 1284; 1311; 1329; 1350; 1372; 1392; 1413; 1434; 1458; 1485; 1508; 1529; 1554; 1601; 1630; 1672; 1755; 1829; 1913; 1935; 1967; 2004; 2022; 2041; 2098; 2115; 2132; 2167; 2185; 2205; 2225; 2244; 2268; 2333; 2385; 2441; 2473; 2496; 2513; 2545; 2575; 2596; 2613; 2636; 2671; 2698; 2729; 2751; 2777; 2799; 2818; 2846; 2882; 2901; 2924; 2945; 2963; 2980; 3004; 3037; 3069; 3096; 3122; 3153; 3183; 3200; 3226; 3249; 3270; 3292; 3312; 3332; 3349; 3388; 3407; 3432; 3451; 3471; 3498; 3522; 3555; 3574; 3602; 3624; 3682; 3706; 3725; 3744; 3765; 3782; 3830; 3857; 3877; 3900; 3924; 3957; 3974; 3994; 4020; 4078; 4105; 4124; 4154; 4179; 4199; 4238; 4256; 4293; 4331; 4360; 4388; 4409; 4437; 4458; 4491; 4509; 4565; 4585; 4612; 4630; 4651; 4677; 4694; 4718; 4741; 4773; 4798; 4825; 4847; 4876
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2067; 3854; 4647
SimI	!GACCC	4	106; 3348; 3916; 4164
SinI	G!GWCC	4	829; 1451; 3436; 3881
SlaI	C!TCGAG	0	
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	365; 864; 894; 3357
SmlI	C!TYRAG	7	1386; 1425; 1802; 3311; 4193; 4470; 4732
SmoI	C!TYRAG	7	1386; 1425; 1802; 3311; 4193; 4470; 4732
SmuI	CCCGNNNN!	10	93; 119; 286; 1319; 1421; 2242; 2597; 2618; 3814; 3946
SmuI	!NNNNNNGCGGG	7	649; 1356; 2173; 3043; 3580; 3718; 3865
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2490; 2562; 3325
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	10	18; 1670; 1734; 1812; 1838; 1849; 2496; 2568; 2660; 4078
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	2	1290; 2741
SsiI	C!CGC	43	58; 86; 98; 112; 279; 507; 589; 612; 631; 665; 728; 740; 771; 796; 799; 1174; 1312; 1414; 1567; 2235; 2238; 2252; 2342; 2590; 2602; 2611; 2623; 2633; 2644; 2690; 2829; 2892; 3394; 3439; 3505; 3531; 3656; 3659; 3807; 3939; 4246; 4390; 4886
SsiI	G!CGG	30	370; 403; 528; 622; 656; 781; 1009; 1321; 1363; 1563; 2180; 2207; 2295; 2405; 2986; 3050; 3151; 3154; 3434; 3489; 3587; 3725; 3872; 4012; 4255; 4500; 4621; 4640; 4767; 4795
SspI	AAT!ATT	2	1828; 2381
SspDI	G!CGGCC	1	2919
SspD5I	GGTGANNNNNNNN!	6	376; 878; 1247; 1557; 3991; 4107

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SspD5I	!NNNNNNNNTCACC	4	694; 1135; 2036; 3097
SstI	GAGCT!C	1	826
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNNNN!	1	1180
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	19	92; 118; 285; 1102; 1318; 1420; 1441; 2119; 2241; 2596; 2617; 2930; 3333; 3472; 3543; 3813; 3945; 4175; 4613
Sth132I	!NNNNNNNNCCGGG	25	15; 407; 470; 597; 648; 797; 809; 1078; 1151; 1355; 2120; 2172; 2273; 3000; 3042; 3075; 3579; 3688; 3717; 3864; 3968; 3999; 4452; 4496; 4704
Sth302II	CC!GG	22	818; 828; 833; 853; 1087; 1436; 2139; 2826; 2903; 2925; 2953; 3084; 3174; 3241; 3422; 3697; 3705; 3797; 4271; 4461; 4487; 4634
StrI	C!TCGAG	0	
StsI	GGATGNNNNNNNNNN!	4	2788; 3245; 3270; 3724
StsI	!NNNNNNNNNNNNNNNNCATCC	4	931; 1019; 1076; 2592
StuI	AGG!CCT	2	1290; 2741
StyI	C!CWWGG	8	360; 695; 841; 862; 2649; 2742; 3352; 3757
StyD4I	!CCNGG	24	88; 281; 638; 718; 816; 1036; 1085; 1180; 1195; 1324; 1433; 2454; 2509; 2526; 2922; 3082; 3305; 3695; 3884; 3987; 4459; 4677; 4690; 4811
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 792; 920; 2011; 3300; 3416; 3524; 3847; 4338; 4808; 4879
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 1222; 1450; 1498; 1983; 1995; 2038; 2148; 3039; 3226; 4007; 4140
TaqI	T!CGA	15	786; 1003; 1030; 1498; 2069; 2760; 3033; 3189; 3213; 3249; 3411; 3602; 3647; 3902; 4740
TaqII	GACCGANNNNNNNNNN!	3	1940; 2957; 3625
TaqII	!NNNNNNNNNTCGGTC	1	3869
TaqII	CACCCANNNNNNNNNN!	1	993
TaqII	!NNNNNNNNNTGGGTG	3	172; 2824; 3416
TasI	!AATT	10	18; 1670; 1734; 1812; 1838; 1849; 2496; 2568; 2660; 4078
TatI	W!GTACW	5	217; 297; 330; 381; 904
TauI	GCSG!C	27	614; 625; 633; 667; 730; 742; 784; 798; 801; 1012; 1324; 1569; 2240; 2254; 2692; 2831; 2894; 2989; 3154; 3157; 3396; 3492; 3533; 3661; 4015; 4643; 4798
TfiI	G!AWTC	7	991; 1468; 3405; 3539; 3649; 3686; 4864
TliI	C!TCGAG	0	
TruII	T!TAA	17	7; 880; 1105; 1621; 1682; 1803; 1824; 1835; 1847; 1858; 1875; 1973; 2244; 4063; 4077; 4082; 4134
Tru9I	T!TAA	17	7; 880; 1105; 1621; 1682; 1803; 1824; 1835; 1847; 1858; 1875; 1973; 2244; 4063; 4077; 4082; 4134
TscAI	CASTGNN!	6	797; 1766; 3049; 4159; 4430; 4443
TseI	G!CWGC	18	625; 773; 1060; 1204; 1502; 1696; 2215; 2880; 2981; 3023; 3064; 3157; 3544; 3997; 4223; 4429; 4432; 4497
TsoI	TARCCANNNNNNNNNN!	2	1892; 2239
TsoI	!NNNNNNNNNTGGYTA	3	1029; 1697; 3449
Tsp45I	!GTSAC	6	701; 1142; 1338; 2209; 3040; 3346
Tsp509I	!AATT	10	18; 1670; 1734; 1812; 1838; 1849; 2496; 2568; 2660; 4078
TspDTI	ATGAANNNNNNNNNN!	4	912; 1678; 2979; 3683
TspDTI	!NNNNNNNNNTTCAT	6	26; 1040; 1061; 3397; 3853; 4060
TspEI	!AATT	10	18; 1670; 1734; 1812; 1838; 1849; 2496; 2568; 2660; 4078
TspGWI	ACGGANNNNNNNNNN!	1	3795
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	6	797; 1766; 3049; 4159; 4430; 4443
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3038
Tth111II	CAARCCANNNNNNNNNN!	2	1092; 4247
Tth111III	!NNNNNNNNNTGYTTG	3	3355; 4215; 4254
UnbI	!GGNCC	16	82; 275; 657; 828; 837; 1010; 1253; 1345; 1366; 1450; 2026; 3435; 3880; 3926; 3984; 4017
Van9II	CCANNNN!NTGG	1	1460

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Vha464I	C!TTAAG	1	1802
VneI	G!TGCAC	2	941; 4524
VpaK11AI	!GGWCC	4	828; 1450; 3435; 3880
VpaK11BI	G!GWCC	4	829; 1451; 3436; 3881
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	3	1734; 1838; 1849
XbaI	T!CTAGA	1	1574
XceI	RCATG!Y	6	893; 1339; 2490; 2562; 3325; 4842
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	0	
XhoII	R!GATCY	10	585; 845; 1401; 3091; 3337; 3729; 4088; 4100; 4186; 4197
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	2742; 3757
XmiI	GT!MKAC	1	1441
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	8	592; 1575; 1769; 2187; 2743; 3758; 4092; 4345
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2492; 2564; 4895