

pTagRFP-N vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1533; 1738
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1821; 2777; 4566
AatI	AGG!CCT	1	2571
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	640; 1265
AccII	CG!CG	16	60; 651; 1399; 1674; 2050; 2070; 2094; 2125; 2816; 3117; 3555; 3639; 3702; 3771; 4044; 4625
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2852
Acc36I	ACCTGCNNNN!	2	3018; 3468
Acc36I	!NNNNNNNNGCAGGT	1	2637
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	7	465; 645; 739; 799; 1903; 2749; 2784
AccB7I	CCANNNN!NTGG	1	1284
AccBSI	CCG!CTC	2	2174; 3363
AccBSI	GAG!CGG	3	1393; 2010; 3417
AceIII	CAGCTCNNNNNNN!	1	1706
AceIII	!NNNNNNNNNNGAGCTG	2	552; 685
AcI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 649; 998; 1136; 1238; 1397; 2065; 2068; 2082; 2172; 2420; 2432; 2441; 2453; 2463; 2474; 2520; 2659; 2722; 3224; 3269; 3335; 3361; 3486; 3489; 3637; 3769; 4076; 4220; 4716
AcI	G!CGG	28	370; 403; 528; 651; 833; 1145; 1187; 1393; 2010; 2037; 2125; 2235; 2816; 2880; 2981; 2984; 3264; 3319; 3417; 3555; 3702; 3842; 4085; 4330; 4451; 4470; 4597; 4625
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	8	668; 2618; 2929; 3175; 3567; 3926; 4024; 4110
AcIWI	!NNNNNGATCC	7	580; 655; 1220; 2994; 3538; 3925; 4022
AcoI	Y!GGCCR	6	1343; 1394; 2656; 2830; 3221; 3248
AcsI	R!AATTY	4	629; 1564; 1668; 1679
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	1195; 2896; 3328
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4126
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	8	122; 175; 258; 444; 1262; 2750; 3452; 3531
AdeI	CACNNN!GTG	2	1335; 1866
AfaI	GT!AC	11	219; 244; 299; 332; 383; 540; 647; 730; 880; 1132; 3056
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	21	49; 796; 909; 1075; 1141; 1284; 1762; 2088; 2480; 2731; 3275; 3556; 3588; 3720; 3755; 3805; 3837; 4190; 4469; 4635; 4653
AfII	C!TTAAG	1	1632
AfIII	A!CRYGT	1	4668
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	7	762; 1212; 2161; 2205; 2215; 2628; 4204
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	16	88; 281; 860; 908; 1004; 1019; 1148; 2284; 2339; 2356; 3135; 3714; 3817; 4507; 4520; 4641
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	1	679
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2324; 2396
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	2	2290; 2362
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	2	1086; 1832
AloI	!NNNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	2	1054; 1800
AluI	AG!CT	18	566; 618; 624; 699; 726; 872; 1179; 1529; 1696; 1953; 2248; 2536; 2856; 3314; 4111; 4368; 4414; 4504
AluBI	AG!CT	18	566; 618; 624; 699; 726; 872; 1179; 1529; 1696; 1953; 2248; 2536; 2856; 3314; 4111; 4368; 4414; 4504
AlwI	GGATCNNNN!	8	668; 2618; 2929; 3175; 3567; 3926; 4024; 4110
AlwI	!NNNNNGATCC	7	580; 655; 1220; 2994; 3538; 3925; 4022
Alw21I	GWGCW!C	5	620; 769; 2863; 3053; 4358
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1306; 2174; 2592; 3611; 3739
Alw44I	G!TGCAC	2	765; 4354
AlwNI	CAGNN!CTG	3	1352; 3851; 4259
Ama87I	C!YCGRG	2	613; 656
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNNN!TGC	3	2318; 2390; 3852
ApaLI	G!TGCAC	2	765; 4354
ApeKI	G!CWGC	16	884; 1028; 1326; 1526; 2045; 2710; 2811; 2853; 2894; 2987; 3374; 3827; 4053; 4259; 4262; 4327
ApoI	R!AATTY	4	629; 1564; 1668; 1679
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3265
ApyPI	!NNNNNNNNNNNNNNNNNNGTTCGAT	3	3059; 3712; 4550
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3149
AquII	!NNNNNNNNNNNNNNNNNNGTNCGGC	1	860
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2578
AquIII	!NNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	3320
ArsI	GACNNNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	23	586; 610; 661; 1050; 1200; 1226; 1408; 2588; 2592; 2611; 2922; 3000; 3081; 3090; 3168; 3544; 3560; 3919; 3931; 4009; 4017; 4028; 4103
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2868
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	2572; 3587
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	21	597; 2016; 2024; 2050; 2072; 2081; 2094; 2125; 2744; 2752; 2816; 2853; 3119; 3379; 3555; 3641; 4044; 4153; 4327; 4427; 4494
AspS9I	G!GNCC	14	83; 276; 654; 835; 1078; 1170; 1191; 1275; 1857; 3266; 3711; 3757; 3815; 3848
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 3432
AsuC2I	CC!SGG	7	657; 658; 1259; 2754; 2914; 3527; 4291
AsuHPI	GGTGANNNNNNNNN!	4	376; 1071; 3821; 3937
AsuHPI	!NNNNNNNNTCACC	3	960; 1867; 2928
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	613; 656
AvaII	G!GWCC	3	1275; 3266; 3711
AviII	TGC!GCA	1	2852
AvrII	C!CTAGG	2	2572; 3587

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AxyI	CC!TNAGG	3	944; 2230; 3862
BaeI	ACNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	657; 742; 769; 802; 1379; 2696; 2789; 4358
BalI	TGG!CCA	2	1345; 2832
BamHI	G!GATCC	1	660
BanI	G!GYRCC	7	465; 645; 739; 799; 1903; 2749; 2784
BanII	GRGCY!C	5	620; 657; 1941; 3115; 3825
BanIII	AT!CGAT	1	2590
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	1284
BauI	C!ACGAG	3	1330; 3468; 4495
BauI	C!TCGTG	2	1180; 3342
BbeI	GGCGC!C	1	2753
Bbr7I	GAAGACNNNNNNNN!	1	991
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	986
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2320; 2392; 3155
BbvI	GCAGCNNNNNNNN!	8	896; 1338; 1538; 2823; 2865; 3386; 3839; 4339
BbvI	!NNNNNNNNNNNGCTGC	7	1015; 2032; 2697; 2881; 2974; 4040; 4246
Bbv12I	GWGCW!C	5	620; 769; 2863; 3053; 4358
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	1077; 1880; 2444; 2970; 3472
BccI	!NNNNNGATGG	3	1848; 2628; 3056
BceAI	ACGGCNNNNNNNNNNNN!	6	897; 1041; 1092; 1158; 3176; 3663
BceAI	!NNNNNNNNNNNNNGCCGT	3	1891; 2709; 4168
Bcefl	ACGGCNNNNNNNNNNNN!	6	897; 1041; 1092; 1158; 3176; 3663
Bcefl	!NNNNNNNNNNNNNGCCGT	3	1892; 2710; 4169
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2179; 2969; 4470
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	7	657; 658; 1259; 2754; 2914; 3527; 4291
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNNN!	1	4603
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	1	4569
BfaI	C!TAG	9	592; 1364; 1405; 1599; 2017; 2573; 3588; 3922; 4175
BfiI	ACTGGGNNNNN!	2	1381; 2699
BfiI	!NNNNCCCAGT	2	289; 2451
BfmI	C!TRYAG	4	634; 2085; 4212; 4403
BfoI	RGCGC!Y	5	598; 2017; 2025; 2753; 4428
BfrI	C!TTAAG	1	1632
BfuI	GTATCCNNNNNN!	3	2179; 2969; 4470
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3018; 3468
BfuAI	!NNNNNNNNNGCAGGT	1	2637
BfuCI	!GATC	23	585; 609; 660; 1049; 1199; 1225; 1407; 2587; 2591; 2610; 2921; 2999; 3080; 3089; 3167; 3543; 3559; 3918; 3930; 4008; 4016; 4027; 4102
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1154; 2525
BglII	A!GATCT	1	609

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BisI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1394; 1397; 1527; 2046; 2068; 2082; 2520; 2659; 2711; 2722; 2812; 2817; 2854; 2895; 2982; 2985; 2988; 3224; 3320; 3361; 3375; 3489; 3828; 3843; 4054; 4260; 4263; 4328; 4471; 4626
BlnI	C!CTAGG	2	2572; 3587
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	35	835; 886; 1030; 1147; 1328; 1395; 1398; 1528; 2047; 2069; 2083; 2521; 2660; 2712; 2723; 2813; 2818; 2855; 2896; 2983; 2986; 2989; 3225; 3321; 3362; 3376; 3490; 3829; 3844; 4055; 4261; 4264; 4329; 4472; 4627
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	1275; 3266; 3711
Bme1390I	CC!NGG	23	90; 283; 657; 658; 862; 910; 1006; 1021; 1150; 1259; 2286; 2341; 2358; 2754; 2914; 3137; 3527; 3716; 3819; 4291; 4509; 4522; 4643
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	613; 656
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	14	84; 277; 655; 836; 1079; 1171; 1192; 1276; 1858; 3267; 3712; 3758; 3816; 3849
BmiI	GGN!NCC	20	467; 647; 655; 662; 741; 801; 1192; 1905; 1926; 1938; 2129; 2290; 2362; 2751; 2786; 3634; 3713; 3758; 4601; 4640
BmrI	ACTGGGNNNNN!	2	1381; 2699
BmrI	!NNNNCCCAGT	2	289; 2451
BmrFI	CC!NGG	23	90; 283; 657; 658; 862; 910; 1006; 1021; 1150; 1259; 2286; 2341; 2358; 2754; 2914; 3137; 3527; 3716; 3819; 4291; 4509; 4522; 4643
BmsI	GCATCNNNNN!	7	923; 1566; 2329; 2401; 3049; 3113; 3388
BmsI	!NNNNNNNNNGATGC	8	357; 1076; 1115; 1244; 2708; 2963; 3179; 4571
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1381; 2699
BmuI	!NNNNCCCAGT	2	289; 2451
BoxI	GACNN!NNGTC	1	1318
BpiI	GAAGACNN!	1	986
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2539; 3438
BpI	!NNNNNNNGAGNNNNNCTC	2	2507; 3406
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3590
BpmI	!NNNNNNNNNNNNNNCTCCAG	2	1003; 3533
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 3432
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	986
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4044; 4583
BpuEI	!NNNNNNNNNNNNNNCTCAAG	4	604; 1234; 3126; 4285
BpuMI	CC!SGG	7	657; 658; 1259; 2754; 2914; 3527; 4291
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1306; 3739
Bsa29I	AT!CGAT	1	2590
BsaAI	YAC!GTR	3	340; 1866; 3054
BsaBI	GATNN!NNATC	2	1412; 2609
BsaHI	GR!CGYC	8	122; 175; 258; 444; 1262; 2750; 3452; 3531
BsaJI	C!CNNGG	22	360; 649; 656; 677; 773; 908; 909; 1004; 2284; 2356; 2479; 2514; 2523; 2572; 2913; 3182; 3587; 3714; 3715; 3817; 3818; 4508
BsaMI	GAATGCN!	1	1501
BsaMI	G!CATTC	1	1594
BsaWI	W!CCGGW	6	600; 666; 2781; 3625; 4315; 4462
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1830
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1800

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	1	1142
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	1751; 3658
Bsc4I	CCNNNNN!NNGG	21	49; 796; 909; 1075; 1141; 1284; 1762; 2088; 2480; 2731; 3275; 3556; 3588; 3720; 3755; 3805; 3837; 4190; 4469; 4635; 4653
BscAI	GCATCNNNN!	7	922; 1565; 2328; 2400; 3048; 3112; 3387
BscAI	!NNNNNNGATGC	8	360; 1079; 1118; 1247; 2711; 2966; 3182; 4574
Bse1I	ACTGGN!	5	1289; 1376; 2694; 2895; 4141
Bse1I	C!CAGT	5	295; 1779; 2457; 4253; 4266
Bse8I	GATNN!NNATC	2	1412; 2609
Bse21I	CC!TNAGG	3	944; 2230; 3862
Bse118I	R!CCGGY	5	666; 1967; 3069; 3250; 3533
BseAI	T!CCGGA	0	
BseBI	CC!WGG	16	90; 283; 862; 910; 1006; 1021; 1150; 2286; 2341; 2358; 3137; 3716; 3819; 4509; 4522; 4643
BseCI	AT!CGAT	1	2590
BseDI	C!CNNGG	22	360; 649; 656; 677; 773; 908; 909; 1004; 2284; 2356; 2479; 2514; 2523; 2572; 2913; 3182; 3587; 3714; 3715; 3817; 3818; 4508
Bse3DI	GCAATGNN!	1	2983
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	2610; 3067; 3092; 3546
BseGI	!CATCC	5	769; 857; 914; 1069; 2436
BseJI	GATNN!NNATC	2	1412; 2609
BseLI	CCNNNNN!NNGG	21	49; 796; 909; 1075; 1141; 1284; 1762; 2088; 2480; 2731; 3275; 3556; 3588; 3720; 3755; 3805; 3837; 4190; 4469; 4635; 4653
BseMI	GCAATGNN!	1	2983
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	620; 3876
BseMII	!NNNNNNNNCTGAG	6	935; 2221; 2523; 3404; 3976; 4385
BseNI	ACTGGN!	5	1289; 1376; 2694; 2895; 4141
BseNI	C!CAGT	5	295; 1779; 2457; 4253; 4266
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2568
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!	8	657; 742; 769; 802; 1379; 2696; 2789; 4358
BseXI	GCAGCNNNNNNNN!	8	896; 1338; 1538; 2823; 2865; 3386; 3839; 4339
BseXI	!NNNNNNNNNNNGCTGC	7	1015; 2032; 2697; 2881; 2974; 4040; 4246
BseX3I	C!GGCCG	2	1394; 2656
BseYI	C!CCAGC	3	2293; 2365; 4364
BseYI	G!CTGGG	2	1106; 3254
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	16	60; 651; 1399; 1674; 2050; 2070; 2094; 2125; 2816; 3117; 3555; 3639; 3702; 3771; 4044; 4625
Bsh1285I	CGRY!CG	4	671; 1397; 2659; 4334
BshFI	GG!CC	29	84; 277; 655; 836; 1079; 1114; 1148; 1171; 1193; 1303; 1345; 1396; 1716; 1858; 2513; 2519; 2528; 2571; 2658; 2832; 3223; 3250; 3759; 3816; 3849; 4194; 4628; 4646; 4657
BshNI	G!GYRCC	7	465; 645; 739; 799; 1903; 2749; 2784
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	2590
BsiEI	CGRY!CG	4	671; 1397; 2659; 4334
BsiHKAI	GWGCW!C	5	620; 769; 2863; 3053; 4358
BsiHKCI	C!YCGRG	2	613; 656
BsiSI	C!CGG	20	601; 657; 667; 1259; 1968; 2655; 2732; 2754; 2782; 2913; 3003; 3070; 3251; 3526; 3534; 3626; 4100; 4290; 4316; 4463
BsiWI	C!GTACG	0	
BslI	CCNNNNN!NNGG	21	49; 796; 909; 1075; 1141; 1284; 1762; 2088; 2480; 2731; 3275; 3556; 3588; 3720; 3755; 3805; 3837; 4190; 4469; 4635; 4653
BslFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2901; 3433; 3542
BslFI	!NNNNNNNNNNNNNGTCCC	4	2266; 2338; 2402; 3697
BsmI	GAATGCN!	1	1501
BsmI	G!CATTC	1	1594
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	1306; 2174; 2592; 3611; 3739
BsmBI	CGTCTCN!	0	

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BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2901; 3433; 3542
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2266; 2338; 2402; 3697
BsnI	GG!CC	29	84; 277; 655; 836; 1079; 1114; 1148; 1171; 1193; 1303; 1345; 1396; 1716; 1858; 2513; 2519; 2528; 2571; 2658; 2832; 3223; 3250; 3759; 3816; 3849; 4194; 4628; 4646; 4657
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	1306; 3739
BsoBI	C!YCGRG	2	613; 656
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 677; 2479; 3182
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3553
Bsp24I	!NNNNNNCCANNNNNGTC	2	3974; 4152
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	2	4006; 4184
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3521
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 3432
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	23	585; 609; 660; 1049; 1199; 1225; 1407; 2587; 2591; 2610; 2921; 2999; 3080; 3089; 3167; 3543; 3559; 3918; 3930; 4008; 4016; 4027; 4102
Bsp1286I	GDGCH!C	14	620; 657; 742; 769; 802; 1379; 1941; 2696; 2789; 2863; 3053; 3115; 3825; 4358
Bsp1407I	T!GTACA	1	728
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 649; 998; 1136; 1238; 1397; 2065; 2068; 2082; 2172; 2420; 2432; 2441; 2453; 2463; 2474; 2520; 2659; 2722; 3224; 3269; 3335; 3361; 3486; 3489; 3637; 3769; 4076; 4220; 4716
BspACI	G!CGG	28	370; 403; 528; 651; 833; 1145; 1187; 1393; 2010; 2037; 2125; 2235; 2816; 2880; 2981; 2984; 3264; 3319; 3417; 3555; 3702; 3842; 4085; 4330; 4451; 4470; 4597; 4625
BspCNI	CTCAGNNNNNNNN!	2	619; 3875
BspCNI	!NNNNNNNCTGAG	6	936; 2222; 2524; 3405; 3977; 4386
BspDI	AT!CGAT	1	2590
BspD6I	GACTCNNNN!	6	418; 612; 1409; 1823; 3429; 4306
BspD6I	!NNNNNGAGTC	3	958; 1786; 2218
BspEI	T!CCGGA	0	
BspFNI	CG!CG	16	60; 651; 1399; 1674; 2050; 2070; 2094; 2125; 2816; 3117; 3555; 3639; 3702; 3771; 4044; 4625
BspHI	T!CATGA	2	2176; 3948
BspLI	GGN!NCC	20	467; 647; 655; 662; 741; 801; 1192; 1905; 1926; 1938; 2129; 2290; 2362; 2751; 2786; 3634; 3713; 3758; 4601; 4640
BspMI	ACCTGCNNNN!	2	3018; 3468
BspMI	!NNNNNNNGCAGGT	1	2637
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	668; 2618; 2929; 3175; 3567; 3926; 4024; 4110
BspPI	!NNNNNGATCC	7	580; 655; 1220; 2994; 3538; 3925; 4022
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	689; 3094; 3304
BspTI	C!TTAAG	1	1632
BspT104I	TT!CGAA	2	627; 3432
BspT107I	G!GYRCC	7	465; 645; 739; 799; 1903; 2749; 2784
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1306; 3739
BsrI	ACTGGN!	5	1289; 1376; 2694; 2895; 4141
BsrI	C!CAGT	5	295; 1779; 2457; 4253; 4266
BsrBI	CCG!CTC	2	2174; 3363
BsrBI	GAG!CGG	3	1393; 2010; 3417
BsrDI	GCAATGNN!	1	2983
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	5	666; 1967; 3069; 3250; 3533
BsrGI	T!GTACA	1	728
BsrSI	ACTGGN!	5	1289; 1376; 2694; 2895; 4141
BsrSI	C!CAGT	5	295; 1779; 2457; 4253; 4266
BssAI	R!CCGGY	5	666; 1967; 3069; 3250; 3533

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssECI	C!CNNGG	22	360; 649; 656; 677; 773; 908; 909; 1004; 2284; 2356; 2479; 2514; 2523; 2572; 2913; 3182; 3587; 3714; 3715; 3817; 3818; 4508
BssHII	G!CGCGC	0	
BssKI	!CCNGG	23	88; 281; 655; 656; 860; 908; 1004; 1019; 1148; 1257; 2284; 2339; 2356; 2752; 2912; 3135; 3525; 3714; 3817; 4289; 4507; 4520; 4641
BssMI	!GATC	23	585; 609; 660; 1049; 1199; 1225; 1407; 2587; 2591; 2610; 2921; 2999; 3080; 3089; 3167; 3543; 3559; 3918; 3930; 4008; 4016; 4027; 4102
BssNI	GR!CGYC	8	122; 175; 258; 444; 1262; 2750; 3452; 3531
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1330; 3468; 4495
BssSI	C!TCGTG	2	1180; 3342
BssTII	C!CWWGG	6	360; 677; 2479; 2572; 3182; 3587
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	689; 2217; 3094; 3304
Bst98I	C!TTAAG	1	1632
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 1262; 2750; 3452; 3531
BstAFI	C!TTAAG	1	1632
BstAPI	GCANNNN!NTGC	3	2317; 2389; 3851
BstAUI	T!GTACA	1	728
BstBI	TT!CGAA	2	627; 3432
Bst2BI	C!ACGAG	3	1330; 3468; 4495
Bst2BI	C!TCGTG	2	1180; 3342
BstBAI	YAC!GTR	3	340; 1866; 3054
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 645; 744; 1841; 3130; 3246; 3354; 3677; 4168; 4638; 4709
BstC8I	GCN!NGC	30	86; 279; 593; 653; 787; 991; 1969; 2012; 2026; 2299; 2318; 2371; 2390; 2644; 2830; 3049; 3115; 3121; 3153; 3194; 3198; 3252; 3535; 3722; 3769; 3825; 3847; 4058; 4618; 4655
BstDEI	C!TNAG	10	606; 686; 944; 1241; 2230; 2532; 3413; 3862; 3985; 4394
BstDSI	C!CRYGG	5	360; 649; 677; 2479; 3182
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	2610; 3067; 3092; 3546
BstF5I	!CATCC	5	769; 857; 914; 1069; 2436
BstFNI	CG!CG	16	60; 651; 1399; 1674; 2050; 2070; 2094; 2125; 2816; 3117; 3555; 3639; 3702; 3771; 4044; 4625
BstH2I	RGCGC!Y	5	598; 2017; 2025; 2753; 4428
BstHHI	GCG!C	21	597; 2016; 2024; 2050; 2072; 2081; 2094; 2125; 2744; 2752; 2816; 2853; 3119; 3379; 3555; 3641; 4044; 4153; 4327; 4427; 4494
BstKTI	GAT!C	23	588; 612; 663; 1052; 1202; 1228; 1410; 2590; 2594; 2613; 2924; 3002; 3083; 3092; 3170; 3546; 3562; 3921; 3933; 4011; 4019; 4030; 4105
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	5	1306; 2174; 2592; 3611; 3739
BstMBI	!GATC	23	585; 609; 660; 1049; 1199; 1225; 1407; 2587; 2591; 2610; 2921; 2999; 3080; 3089; 3167; 3543; 3559; 3918; 3930; 4008; 4016; 4027; 4102
BstMCI	CGRY!CG	4	671; 1397; 2659; 4334
BstMWI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 723; 1154; 1977; 2007; 2034; 2076; 2317; 2389; 2440; 2519; 2741; 2825; 2848; 2987; 3110; 3193; 3460; 3647; 3851; 4050; 4622
BstNI	CC!WGG	16	90; 283; 862; 910; 1006; 1021; 1150; 2286; 2341; 2358; 3137; 3716; 3819; 4509; 4522; 4643
BstNSI	RCATG!Y	5	717; 2320; 2392; 3155; 4672
BstOI	CC!WGG	16	90; 283; 862; 910; 1006; 1021; 1150; 2286; 2341; 2358; 3137; 3716; 3819; 4509; 4522; 4643
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1318
BstSCI	!CCNGG	23	88; 281; 655; 656; 860; 908; 1004; 1019; 1148; 1257; 2284; 2339; 2356; 2752; 2912; 3135; 3525; 3714; 3817; 4289; 4507; 4520; 4641
BstSFI	C!TRYAG	4	634; 2085; 4212; 4403

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSLI	GKGC!C	8	657; 742; 769; 802; 1379; 2696; 2789; 4358
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	16	60; 651; 1399; 1674; 2050; 2070; 2094; 2125; 2816; 3117; 3555; 3639; 3702; 3771; 4044; 4625
Bst2UI	CC!WGG	16	90; 283; 862; 910; 1006; 1021; 1150; 2286; 2341; 2358; 3137; 3716; 3819; 4509; 4522; 4643
BstV1I	GCAGC!NNNNNNNN!	8	896; 1338; 1538; 2823; 2865; 3386; 3839; 4339
BstV1I	!NNNNNNNNNNNGCTGC	7	1015; 2032; 2697; 2881; 2974; 4040; 4246
BstV2I	GAAGAC!NN!	1	986
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	11	585; 609; 660; 1225; 2921; 3167; 3559; 3918; 3930; 4016; 4027
BstYI	R!GATCY	11	585; 609; 660; 1225; 2921; 3167; 3559; 3918; 3930; 4016; 4027
BstZI	C!GGCCG	2	1394; 2656
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2179; 2969; 4470
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2590
Bsu36I	CC!TNAGG	3	944; 2230; 3862
BsuRI	GG!CC	29	84; 277; 655; 836; 1079; 1114; 1148; 1171; 1193; 1303; 1345; 1396; 1716; 1858; 2513; 2519; 2528; 2571; 2658; 2832; 3223; 3250; 3759; 3816; 3849; 4194; 4628; 4646; 4657
BsuTUI	AT!CGAT	1	2590
BtgI	C!CRYGG	5	360; 649; 677; 2479; 3182
BtgZI	GCGATGNNNNNNNNNN!	2	1867; 3202
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3021; 3365
BthCI	GCNG!C	35	836; 887; 1031; 1148; 1329; 1396; 1399; 1529; 2048; 2070; 2084; 2522; 2661; 2713; 2724; 2814; 2819; 2856; 2897; 2984; 2987; 2990; 3226; 3322; 3363; 3377; 3491; 3830; 3845; 4056; 4262; 4265; 4330; 4473; 4628
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTG!NN!	0	
BtsI	!CACTGC	1	1589
BtsCI	GGATG!NN!	4	2610; 3067; 3092; 3546
BtsCI	!CATCC	5	769; 857; 914; 1069; 2436
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3018; 3468
BveI	!NNNNNNNNNGCAGGT	1	2637
Cac8I	GCN!NGC	30	86; 279; 593; 653; 787; 991; 1969; 2012; 2026; 2299; 2318; 2371; 2390; 2644; 2830; 3049; 3115; 3121; 3153; 3194; 3198; 3252; 3535; 3722; 3769; 3825; 3847; 4058; 4618; 4655
CaiI	CAGNNN!CTG	3	1352; 3851; 4259
CciI	T!CATGA	2	2176; 3948
CciNI	GC!GGCCGC	1	1394
CdiI	CATC!G	5	352; 3039; 3044; 3242; 3383
CdiI	C!GATG	2	1853; 3188
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4622
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2411; 2453
CelII	GC!TNAGC	0	
CfoI	GCG!C	21	597; 2016; 2024; 2050; 2072; 2081; 2094; 2125; 2744; 2752; 2816; 2853; 3119; 3379; 3555; 3641; 4044; 4153; 4327; 4427; 4494
CfrI	Y!GGCCR	6	1343; 1394; 2656; 2830; 3221; 3248
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	5	666; 1967; 3069; 3250; 3533
Cfr13I	G!GNCC	14	83; 276; 654; 835; 1078; 1170; 1191; 1275; 1857; 3266; 3711; 3757; 3815; 3848
Cfr42I	CCGC!GG	1	652
ChaI	GATC!	23	589; 613; 664; 1053; 1203; 1229; 1411; 2591; 2595; 2614; 2925; 3003; 3084; 3093; 3171; 3547; 3563; 3922; 3934; 4012; 4020; 4031; 4106
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	5	781; 2567; 4007; 4107; 4185
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2234; 2329; 3521; 4071; 4626
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2268; 2363; 3555; 4105; 4660
CjeI	!NNNNNNNNCCANNNNNNGT	5	747; 2533; 3973; 4073; 4151

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	2	4007; 4185
CjePI	!NNNNNNNGANNNNNNNTGG	5	257; 806; 1151; 3521; 4120
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	5	290; 839; 1184; 3554; 4153
CjePI	!NNNNNNCCANNNNNNNTC	2	3974; 4152
Clal	AT!CGAT	1	2590
CpoI	CG!GWCCG	1	3266
CseI	GACGCNNNNN!	3	526; 3460; 3539
CseI	!NNNNNNNNNGCGTC	4	1251; 2083; 3978; 4556
CsiI	A!CCWGGT	1	2339
CspI	CG!GWCCG	1	3266
Csp6I	G!TAC	11	218; 243; 298; 331; 382; 539; 646; 729; 879; 1131; 3055
Csp45I	TT!CGAA	2	627; 3432
CspAI	A!CCGGT	1	666
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	731; 1322; 2030; 3639
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	23	301; 361; 678; 714; 720; 732; 810; 876; 956; 1167; 2177; 2317; 2389; 2480; 2621; 2966; 3152; 3183; 3209; 3565; 3949; 4669; 4720
CviJI	RG!CY	94	42; 84; 93; 277; 566; 618; 624; 655; 699; 726; 789; 836; 865; 872; 950; 1016; 1028; 1079; 1106; 1114; 1148; 1171; 1179; 1193; 1303; 1339; 1345; 1396; 1419; 1529; 1696; 1716; 1858; 1939; 1953; 1967; 2248; 2289; 2361; 2484; 2513; 2519; 2528; 2536; 2559; 2571; 2577; 2658; 2675; 2683; 2710; 2735; 2819; 2828; 2832; 2856; 2894; 2970; 2987; 3006; 3069; 3113; 3123; 3140; 3223; 3250; 3254; 3291; 3314; 3330; 3510; 3537; 3598; 3720; 3759; 3816; 3823; 3830; 3849; 3860; 4111; 4140; 4183; 4194; 4259; 4338; 4363; 4368; 4414; 4504; 4602; 4628; 4646; 4657
CviKI-1	RG!CY	94	42; 84; 93; 277; 566; 618; 624; 655; 699; 726; 789; 836; 865; 872; 950; 1016; 1028; 1079; 1106; 1114; 1148; 1171; 1179; 1193; 1303; 1339; 1345; 1396; 1419; 1529; 1696; 1716; 1858; 1939; 1953; 1967; 2248; 2289; 2361; 2484; 2513; 2519; 2528; 2536; 2559; 2571; 2577; 2658; 2675; 2683; 2710; 2735; 2819; 2828; 2832; 2856; 2894; 2970; 2987; 3006; 3069; 3113; 3123; 3140; 3223; 3250; 3254; 3291; 3314; 3330; 3510; 3537; 3598; 3720; 3759; 3816; 3823; 3830; 3849; 3860; 4111; 4140; 4183; 4194; 4259; 4338; 4363; 4368; 4414; 4504; 4602; 4628; 4646; 4657
CviQI	G!TAC	11	218; 243; 298; 331; 382; 539; 646; 729; 879; 1131; 3055
DdeI	C!TNAG	10	606; 686; 944; 1241; 2230; 2532; 3413; 3862; 3985; 4394
DinI	GGC!GCC	1	2751
DpnI	GA!TC	23	587; 611; 662; 1051; 1201; 1227; 1409; 2589; 2593; 2612; 2923; 3001; 3082; 3091; 3169; 3545; 3561; 3920; 3932; 4010; 4018; 4029; 4104
DpnII	!GATC	23	585; 609; 660; 1049; 1199; 1225; 1407; 2587; 2591; 2610; 2921; 2999; 3080; 3089; 3167; 3543; 3559; 3918; 3930; 4008; 4016; 4027; 4102
DraI	TTT!AAA	3	1452; 3894; 3913
DraII	RG!GNCCY	1	3848
DraIII	CACNN!GTG	2	1335; 1866
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	266; 4230
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1821; 2777; 4566
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1821; 2777; 4566
EaeI	Y!GGCCR	6	1343; 1394; 2656; 2830; 3221; 3248
EagI	C!GGCCG	2	1394; 2656
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	689; 2217; 3094; 3304
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	4	689; 2217; 3094; 3304

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EciI	GGCGGANNNNNNNNNN!	4	2250; 3279; 4466; 4612
EciI	!NNNNNNNNNTCCGCC	4	496; 2421; 2442; 2463
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	2	1394; 2656
Eco24I	GRGCY!C	5	620; 657; 1941; 3115; 3825
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1306; 3739
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	1275; 3266; 3711
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1394; 2656
Eco57I	CTGAAGNNNNNNNNNNNNNN!	3	1195; 2896; 3328
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4126
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	944; 2230; 3862
Eco88I	C!YCGRG	2	613; 656
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 677; 2479; 2572; 3182; 3587
Eco147I	AGG!CCT	1	2571
EcoHI	!CCSGG	7	655; 656; 1257; 2752; 2912; 3525; 4289
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	4	1195; 2896; 3328; 3590
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	1003; 3533; 4126
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	3848
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	16	88; 281; 860; 908; 1004; 1019; 1148; 2284; 2339; 2356; 3135; 3714; 3817; 4507; 4520; 4641
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 677; 2479; 2572; 3182; 3587
EcoT22I	ATGCA!T	3	2322; 2394; 4725
EcoT38I	GRGCY!C	5	620; 657; 1941; 3115; 3825
Eco53kI	GAG!CTC	1	618
EgeI	GGC!GCC	1	2751
EheI	GGC!GCC	1	2751
ErhI	C!CWWGG	6	360; 677; 2479; 2572; 3182; 3587
EsaBC3I	TC!GA	17	615; 628; 641; 828; 855; 1323; 1900; 2591; 2864; 3020; 3044; 3080; 3242; 3433; 3478; 3733; 4571
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	23	304; 364; 681; 717; 723; 735; 813; 879; 959; 1170; 2180; 2320; 2392; 2483; 2624; 2969; 3155; 3186; 3212; 3568; 3952; 4672; 4723
Fail	YA!TR	62	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 715; 721; 733; 811; 877; 957; 975; 1168; 1221; 1271; 1412; 1422; 1488; 1533; 1738; 2166; 2178; 2309; 2318; 2381; 2390; 2414; 2481; 2505; 2622; 2686; 2967; 2992; 3153; 3184; 3210; 3282; 3498; 3566; 3644; 3696; 3857; 3874; 3876; 3878; 3950; 4228; 4417; 4533; 4606; 4670; 4721
FalI	AAGNNNNCTTNNNNNNNNNN!	2	954; 3090
FalI	!NNNNNNNNAAGNNNNCTT	2	922; 3058
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 2901; 3433; 3542
FaqI	!NNNNNNNNNNNNNGTCCC	4	2266; 2338; 2402; 3697
FatI	!CATG	23	300; 360; 677; 713; 719; 731; 809; 875; 955; 1166; 2176; 2316; 2388; 2479; 2620; 2965; 3151; 3182; 3208; 3564; 3948; 4668; 4719
FauI	CCCGCNNNN!	10	93; 119; 286; 1143; 1245; 2072; 2427; 2448; 3644; 3776
FauI	!NNNNNGCGGG	7	644; 1180; 2003; 2873; 3410; 3548; 3695
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	2	640; 1265
FmuI	GGNC!C	14	86; 279; 657; 838; 1081; 1173; 1194; 1278; 1860; 3269; 3714; 3760; 3818; 3851

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1394; 1397; 1527; 2046; 2068; 2082; 2520; 2659; 2711; 2722; 2812; 2817; 2854; 2895; 2982; 2985; 2988; 3224; 3320; 3361; 3375; 3489; 3828; 3843; 4054; 4260; 4263; 4328; 4471; 4626
FokI	GGATGNNNNNNNNNN!	4	2617; 3074; 3099; 3553
FokI	!NNNNNNNNNNNNNNCATCC	5	756; 844; 901; 1056; 2423
FriOI	GRGCY!C	5	620; 657; 1941; 3115; 3825
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2852
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1364; 1405; 1599; 2017; 2573; 3588; 3922; 4175
FspEI	CCNNNNNNNNNNNN!	157	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 756; 786; 803; 817; 850; 864; 882; 906; 921; 951; 984; 1011; 1026; 1045; 1081; 1128; 1147; 1162; 1185; 1207; 1230; 1250; 1271; 1291; 1317; 1359; 1375; 1410; 1433; 1472; 1486; 1627; 1722; 1746; 1769; 1792; 1810; 1832; 1853; 1872; 1891; 1920; 1941; 1955; 1981; 2069; 2095; 2144; 2185; 2203; 2242; 2258; 2296; 2353; 2368; 2425; 2445; 2459; 2476; 2490; 2527; 2542; 2585; 2668; 2735; 2766; 2786; 2801; 2846; 2860; 2926; 2940; 2959; 2975; 3016; 3036; 3083; 3133; 3149; 3169; 3194; 3214; 3237; 3264; 3282; 3308; 3348; 3374; 3398; 3454; 3468; 3496; 3539; 3560; 3595; 3639; 3727; 3751; 3773; 3793; 3809; 3830; 3844; 3863; 3947; 3967; 3995; 4010; 4044; 4086; 4113; 4128; 4173; 4197; 4211; 4233; 4259; 4279; 4303; 4329; 4377; 4396; 4415; 4441; 4476; 4521; 4551; 4565; 4616; 4630; 4655; 4671; 4692; 4721
FspEI	!NNNNNNNNNNNNNNNGG	130	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 673; 691; 718; 760; 781; 805; 847; 866; 895; 931; 968; 991; 1010; 1040; 1061; 1088; 1127; 1153; 1172; 1244; 1270; 1318; 1357; 1378; 1421; 1521; 1590; 1620; 1698; 1747; 1769; 1797; 1833; 1878; 1907; 1943; 1962; 1990; 2010; 2073; 2096; 2204; 2236; 2254; 2283; 2326; 2355; 2466; 2495; 2538; 2559; 2587; 2620; 2640; 2665; 2692; 2717; 2739; 2767; 2793; 2814; 2865; 2886; 2904; 2952; 2988; 3044; 3069; 3093; 3122; 3145; 3169; 3195; 3217; 3236; 3261; 3301; 3337; 3402; 3487; 3511; 3540; 3574; 3595; 3615; 3660; 3687; 3706; 3739; 3791; 3822; 3849; 3901; 3999; 4070; 4115; 4176; 4241; 4275; 4301; 4319; 4355; 4425; 4448; 4470; 4494; 4527; 4575; 4610; 4628; 4685
Fsp4HI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1394; 1397; 1527; 2046; 2068; 2082; 2520; 2659; 2711; 2722; 2812; 2817; 2854; 2895; 2982; 2985; 2988; 3224; 3320; 3361; 3375; 3489; 3828; 3843; 4054; 4260; 4263; 4328; 4471; 4626
GdiII	C!GGCCR	2	1394; 2656
GdiII	Y!GGCCG	4	1394; 2656; 3221; 3248
GlaI	GC!GC	21	596; 2015; 2023; 2049; 2071; 2080; 2093; 2124; 2743; 2751; 2815; 2852; 3118; 3378; 3554; 3640; 4043; 4152; 4326; 4426; 4493
GluI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1394; 1397; 1527; 2046; 2068; 2082; 2520; 2659; 2711; 2722; 2812; 2817; 2854; 2895; 2982; 2985; 2988; 3224; 3320; 3361; 3375; 3489; 3828; 3843; 4054; 4260; 4263; 4328; 4471; 4626
GsaI	CCCAG!C	3	2297; 2369; 4368
GsaI	GCTGG!G	2	1110; 3258
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3590
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	1003; 3533
HaeI	WGG!CCW	7	1114; 1345; 2571; 2832; 4194; 4646; 4657
HaeII	RGCGC!Y	5	598; 2017; 2025; 2753; 4428
HaeIII	GG!CC	29	84; 277; 655; 836; 1079; 1114; 1148; 1171; 1193; 1303; 1345; 1396; 1716; 1858; 2513; 2519; 2528; 2571; 2658; 2832; 3223; 3250; 3759; 3816; 3849; 4194; 4628; 4646; 4657
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1425; 2946
HaeIV	!NNNNNNNNNGAYNNNNNNRTCC	2	1391; 2912
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	1424; 2945
HaeIV	!NNNNNNNGAYNNNNNNRTCC	2	1393; 2914
HapII	C!CGG	20	601; 657; 667; 1259; 1968; 2655; 2732; 2754; 2782; 2913; 3003; 3070; 3251; 3526; 3534; 3626; 4100; 4290; 4316; 4463
HgaI	GACGCNNNNN!	3	526; 3460; 3539
HgaI	!NNNNNNNNNNGCGTC	4	1251; 2083; 3978; 4556

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HhaI	GCG!C	21	597; 2016; 2024; 2050; 2072; 2081; 2094; 2125; 2744; 2752; 2816; 2853; 3119; 3379; 3555; 3641; 4044; 4153; 4327; 4427; 4494
Hin1I	GR!CGYC	8	122; 175; 258; 444; 1262; 2750; 3452; 3531
Hin1II	CATG!	23	304; 364; 681; 717; 723; 735; 813; 879; 959; 1170; 2180; 2320; 2392; 2483; 2624; 2969; 3155; 3186; 3212; 3568; 3952; 4672; 4723
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1424; 2945
Hin4I	!NNNNNNNNGABNNNNNRTC	3	1392; 2913; 2943
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1424; 2945; 2975
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	1392; 2913
Hin6I	G!CGC	21	595; 2014; 2022; 2048; 2070; 2079; 2092; 2123; 2742; 2750; 2814; 2851; 3117; 3377; 3553; 3639; 4042; 4151; 4325; 4425; 4492
HinP1I	G!CGC	21	595; 2014; 2022; 2048; 2070; 2079; 2092; 2123; 2742; 2750; 2814; 2851; 3117; 3377; 3553; 3639; 4042; 4151; 4325; 4425; 4492
HincII	GTY!RAC	2	641; 1513
HindII	GTY!RAC	2	641; 1513
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	16	410; 604; 815; 965; 1292; 1401; 1793; 1815; 2225; 3235; 3369; 3421; 3479; 3516; 4298; 4694
HpaI	GTT!AAC	1	1513
HpaII	C!CGG	20	601; 657; 667; 1259; 1968; 2655; 2732; 2754; 2782; 2913; 3003; 3070; 3251; 3526; 3534; 3626; 4100; 4290; 4316; 4463
HphI	GGTGANNNNNNNN!	4	376; 1071; 3821; 3937
HphI	!NNNNNNNTCACC	3	960; 1867; 2928
Hpy8I	GTN!NAC	14	201; 539; 577; 641; 747; 767; 1062; 1266; 1275; 1513; 1797; 1814; 1869; 4356
Hpy99I	CGWCG!	9	645; 1324; 2840; 2868; 3162; 3177; 3454; 3839; 4572
Hpy166II	GTN!NAC	14	201; 539; 577; 641; 747; 767; 1062; 1266; 1275; 1513; 1797; 1814; 1869; 4356
Hpy188I	TCN!GA	14	585; 609; 774; 1054; 1924; 2533; 2717; 3061; 3414; 3515; 3994; 4128; 4481; 4559
Hpy188III	TC!NNGA	24	613; 1047; 1212; 1251; 1405; 2177; 2229; 2542; 2595; 2768; 3084; 3093; 3176; 3232; 3276; 3366; 3399; 3468; 3949; 4023; 4106; 4204; 4302; 4436
HpyAV	CCTTCNNNNNN!	6	855; 903; 948; 3395; 3502; 4181
HpyAV	!NNNNNGAAGG	9	775; 1147; 1983; 2878; 3607; 3623; 3806; 4123; 4433
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 645; 744; 1841; 3130; 3246; 3354; 3677; 4168; 4638; 4709
HpyCH4IV	A!CGT	16	122; 134; 175; 258; 339; 444; 1043; 1319; 1810; 1822; 1865; 1975; 2866; 3053; 3834; 3967
HpyCH4V	TG!CA	21	636; 717; 767; 1089; 1205; 1499; 1526; 1594; 2311; 2320; 2383; 2392; 2507; 2583; 2642; 2801; 2976; 2990; 4060; 4356; 4723
HpyF3I	C!TNAG	10	606; 686; 944; 1241; 2230; 2532; 3413; 3862; 3985; 4394
HpyF10VI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 723; 1154; 1977; 2007; 2034; 2076; 2317; 2389; 2440; 2519; 2741; 2825; 2848; 2987; 3110; 3193; 3460; 3647; 3851; 4050; 4622
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 1262; 2750; 3452; 3531
Hsp92II	CATG!	23	304; 364; 681; 717; 723; 735; 813; 879; 959; 1170; 2180; 2320; 2392; 2483; 2624; 2969; 3155; 3186; 3212; 3568; 3952; 4672; 4723
HspAI	G!CGC	21	595; 2014; 2022; 2048; 2070; 2079; 2092; 2123; 2742; 2750; 2814; 2851; 3117; 3377; 3553; 3639; 4042; 4151; 4325; 4425; 4492
KasI	G!GCGCC	1	2749
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	649
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	652
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1513
Kzo9I	!GATC	23	585; 609; 660; 1049; 1199; 1225; 1407; 2587; 2591; 2610; 2921; 2999; 3080; 3089; 3167; 3543; 3559; 3918; 3930; 4008; 4016; 4027; 4102
LguI	GCTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LguI	!NNNNGAAGAGC	3	689; 3094; 3304
LpnI	RGC!GCGY	5	596; 2015; 2023; 2751; 4426
LpnPI	CCDGNNNNNNNNNNN!	60	102; 295; 614; 670; 817; 874; 922; 956; 1018; 1033; 1094; 1162; 1186; 1210; 1272; 1359; 1487; 1792; 1981; 2204; 2242; 2258; 2298; 2353; 2370; 2470; 2555; 2668; 2745; 2767; 2790; 2926; 2940; 2959; 3016; 3083; 3133; 3149; 3206; 3264; 3473; 3539; 3563; 3639; 3728; 3831; 3864; 4095; 4113; 4259; 4279; 4303; 4329; 4378; 4476; 4521; 4551; 4630; 4655; 4692
LpnPI	!NNNNNNNNNNNNNNCHGG	54	75; 268; 552; 586; 642; 847; 895; 991; 1092; 1135; 1244; 1270; 1357; 1833; 1953; 2010; 2073; 2271; 2283; 2343; 2355; 2587; 2632; 2675; 2717; 2739; 2767; 2814; 2876; 2898; 2988; 3055; 3078; 3122; 3217; 3236; 3261; 3410; 3511; 3554; 3611; 3701; 3804; 3831; 3849; 4085; 4122; 4275; 4301; 4441; 4459; 4494; 4575; 4628
Lsp1109I	GCAGCNNNNNNNN!	8	896; 1338; 1538; 2823; 2865; 3386; 3839; 4339
Lsp1109I	!NNNNNNNNNNNNNGCTGC	7	1015; 2032; 2697; 2881; 2974; 4040; 4246
LweI	GCATCNNNNN!	7	923; 1566; 2329; 2401; 3049; 3113; 3388
LweI	!NNNNNNNNNGATGC	8	357; 1076; 1115; 1244; 2708; 2963; 3179; 4571
MabI	A!CCWGGT	1	2339
MaeI	C!TAG	9	592; 1364; 1405; 1599; 2017; 2573; 3588; 3922; 4175
MaeII	A!CGT	16	122; 134; 175; 258; 339; 444; 1043; 1319; 1810; 1822; 1865; 1975; 2866; 3053; 3834; 3967
MaeIII	!GTNAC	13	61; 148; 497; 966; 1538; 2039; 2051; 2870; 3176; 3866; 4132; 4248; 4311
MalI	GA!TC	23	587; 611; 662; 1051; 1201; 1227; 1409; 2589; 2593; 2612; 2923; 3001; 3082; 3091; 3169; 3545; 3561; 3920; 3932; 4010; 4018; 4029; 4104
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2174; 3363
MbiI	GAG!CGG	3	1393; 2010; 3417
MboI	!GATC	23	585; 609; 660; 1049; 1199; 1225; 1407; 2587; 2591; 2610; 2921; 2999; 3080; 3089; 3167; 3543; 3559; 3918; 3930; 4008; 4016; 4027; 4102
MboII	GAAGANNNNNNNN!	8	706; 991; 1104; 2006; 2234; 3111; 3321; 3940
MboII	!NNNNNNNTCTTC	4	3401; 3568; 3768; 4011
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1500
MfiI	R!GATCY	11	585; 609; 660; 1225; 2921; 3167; 3559; 3918; 3930; 4016; 4027
MhII	GDGCH!C	14	620; 657; 742; 769; 802; 1379; 1941; 2696; 2789; 2863; 3053; 3115; 3825; 4358
MisI	TGG!CCA	2	1345; 2832
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	1345; 2832
MlyI	GAGTCNNNNN!	3	974; 1802; 2234
MlyI	!NNNNNGACTC	6	404; 598; 1395; 1809; 3415; 4292
Mly113I	GG!CGCC	1	2750
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1097; 1843
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4275; 4459
MnII	CCTCNNNNNNN!	12	848; 1027; 1042; 1258; 1369; 1469; 2533; 3351; 3557; 3871; 4241; 4565
MnII	!NNNNNGAGG	22	541; 729; 768; 789; 822; 939; 1048; 1104; 1293; 1326; 1429; 1894; 2225; 2503; 2546; 2561; 2601; 2665; 2801; 3158; 3588; 4491
Mph1103I	ATGCA!T	3	2322; 2394; 4725
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	1967; 3250; 3533
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	2	1345; 2832
MseI	T!TAA	18	7; 704; 929; 1385; 1451; 1512; 1633; 1654; 1665; 1677; 1688; 1705; 1803; 2074; 3893; 3907; 3912; 3964
MsiI	CAYNN!NNRTG	5	365; 679; 718; 1123; 3187
MspI	C!CGG	20	601; 657; 667; 1259; 1968; 2655; 2732; 2754; 2782; 2913; 3003; 3070; 3251; 3526; 3534; 3626; 4100; 4290; 4316; 4463
Msp20I	TGG!CCA	2	1345; 2832

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspAII	CMG!CKG	6	651; 1138; 2248; 2856; 4085; 4330
MspCI	C!TTAAG	1	1632
MspJI	CNNRNNNNNNNN!	241	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 613; 627; 640; 662; 679; 698; 712; 726; 744; 774; 792; 807; 822; 840; 873; 888; 916; 931; 955; 968; 984; 1002; 1016; 1032; 1045; 1059; 1080; 1093; 1114; 1127; 1147; 1161; 1179; 1192; 1209; 1224; 1241; 1261; 1291; 1308; 1328; 1342; 1358; 1375; 1390; 1410; 1423; 1438; 1457; 1474; 1487; 1528; 1542; 1555; 1573; 1611; 1626; 1644; 1685; 1709; 1729; 1747; 1768; 1791; 1823; 1838; 1860; 1878; 1891; 1912; 1929; 1942; 1955; 1971; 1984; 2014; 2029; 2054; 2072; 2085; 2100; 2124; 2138; 2162; 2187; 2203; 2241; 2257; 2296; 2310; 2324; 2352; 2368; 2382; 2396; 2425; 2438; 2459; 2468; 2490; 2520; 2536; 2554; 2584; 2607; 2631; 2655; 2674; 2702; 2728; 2744; 2757; 2780; 2794; 2814; 2827; 2841; 2860; 2874; 2887; 2903; 2918; 2931; 2947; 2962; 2978; 3003; 3022; 3038; 3051; 3064; 3082; 3096; 3110; 3126; 3148; 3164; 3183; 3205; 3221; 3244; 3263; 3277; 3293; 3307; 3327; 3343; 3356; 3378; 3411; 3425; 3445; 3458; 3472; 3526; 3539; 3562; 3575; 3594; 3611; 3638; 3674; 3707; 3726; 3751; 3772; 3799; 3812; 3829; 3843; 3858; 3874; 3934; 3959; 3975; 3997; 4010; 4024; 4055; 4069; 4094; 4112; 4127; 4140; 4159; 4172; 4187; 4216; 4235; 4253; 4278; 4293; 4312; 4328; 4347; 4365; 4381; 4395; 4414; 4441; 4464; 4486; 4505; 4520; 4533; 4550; 4570; 4597; 4610; 4629; 4654; 4677; 4691; 4704; 4721
MspJI	!NNNNNNNNNNNNYNG	198	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 593; 612; 636; 653; 673; 691; 718; 748; 772; 790; 814; 833; 855; 895; 916; 942; 962; 991; 1033; 1067; 1088; 1108; 1135; 1153; 1170; 1188; 1216; 1237; 1256; 1282; 1304; 1327; 1350; 1376; 1402; 1431; 1460; 1502; 1585; 1620; 1647; 1670; 1699; 1743; 1765; 1797; 1833; 1850; 1871; 1908; 1928; 1945; 1962; 1997; 2015; 2033; 2050; 2074; 2096; 2123; 2151; 2177; 2215; 2236; 2253; 2271; 2294; 2315; 2343; 2366; 2387; 2405; 2426; 2443; 2466; 2490; 2510; 2528; 2550; 2581; 2603; 2629; 2648; 2665; 2693; 2712; 2731; 2749; 2767; 2788; 2810; 2834; 2867; 2887; 2905; 2926; 2952; 2979; 2996; 3013; 3030; 3056; 3078; 3100; 3118; 3138; 3157; 3179; 3217; 3237; 3261; 3281; 3301; 3328; 3352; 3385; 3404; 3432; 3454; 3483; 3511; 3536; 3555; 3574; 3595; 3612; 3629; 3660; 3687; 3707; 3730; 3750; 3787; 3804; 3823; 3849; 3869; 3908; 3935; 3954; 3972; 4009; 4027; 4068; 4086; 4112; 4129; 4161; 4190; 4218; 4239; 4262; 4281; 4302; 4320; 4337; 4355; 4381; 4402; 4422; 4442; 4460; 4481; 4507; 4524; 4543; 4562; 4591; 4610; 4628; 4647; 4665; 4683; 4706
MspR9I	CC!NGG	23	90; 283; 657; 658; 862; 910; 1006; 1021; 1150; 1259; 2286; 2341; 2358; 2754; 2914; 3137; 3527; 3716; 3819; 4291; 4509; 4522; 4643
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	1500
MvaI	CC!WGG	16	90; 283; 862; 910; 1006; 1021; 1150; 2286; 2341; 2358; 3137; 3716; 3819; 4509; 4522; 4643
Mva1269I	GAATGCN!	1	1501
Mva1269I	G!CATTC	1	1594
MvnI	CG!CG	16	60; 651; 1399; 1674; 2050; 2070; 2094; 2125; 2816; 3117; 3555; 3639; 3702; 3771; 4044; 4625
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	27	90; 212; 244; 283; 376; 400; 723; 1154; 1977; 2007; 2034; 2076; 2317; 2389; 2440; 2519; 2741; 2825; 2848; 2987; 3110; 3193; 3460; 3647; 3851; 4050; 4622
NaeI	GCC!GGC	3	1969; 3252; 3535
NarI	GG!CGCC	1	2750
NciI	CC!SGG	7	657; 658; 1259; 2754; 2914; 3527; 4291
NcoI	C!CATGG	4	360; 677; 2479; 3182
NdeI	CA!TATG	1	234
NdeII	!GATC	23	585; 609; 660; 1049; 1199; 1225; 1407; 2587; 2591; 2610; 2921; 2999; 3080; 3089; 3167; 3543; 3559; 3918; 3930; 4008; 4016; 4027; 4102
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	806
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	842

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	1967; 3250; 3533
NheI	G!CTAGC	1	591
NlaIII	CATG!	23	304; 364; 681; 717; 723; 735; 813; 879; 959; 1170; 2180; 2320; 2392; 2483; 2624; 2969; 3155; 3186; 3212; 3568; 3952; 4672; 4723
NlaIV	GGN!NCC	20	467; 647; 655; 662; 741; 801; 1192; 1905; 1926; 1938; 2129; 2290; 2362; 2751; 2786; 3634; 3713; 3758; 4601; 4640
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1582; 1897; 3489
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 1066; 4561
Nli3877I	CYCGR!G	2	617; 660
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2539; 2975
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1082; 2504
NmeDI	RCCGGYNNNNNNN!	5	678; 1979; 3081; 3262; 3545
NmeDI	!NNNNNNNNNNNNRCCGGY	5	653; 1954; 3056; 3237; 3520
NmuCI	!GTSAC	4	966; 2039; 2870; 3176
NotI	GC!GGCCGC	1	1394
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2852
NsiI	ATGCA!T	3	2322; 2394; 4725
NspI	RCATG!Y	5	717; 2320; 2392; 3155; 4672
NspV	TT!CGAA	2	627; 3432
OliI	CACNN!NNGTG	1	679
PabI	GTA!C	11	220; 245; 300; 333; 384; 541; 648; 731; 881; 1133; 3057
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2320; 2392; 3155
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	2176; 3948
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	909; 3715; 3818
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2571
PciI	A!CATGT	1	4668
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	689; 3094; 3304
PcsI	WCGNNNN!NNNCGW	7	1328; 3044; 3121; 3364; 3438; 3831; 4349
PctI	GAATGCN!	1	1501
PctI	G!CATTC	1	1594
PdiI	GCC!GGC	3	1969; 3252; 3535
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	815; 1292; 3235; 3369; 3479; 3516; 4694
Pfi23II	C!GTACG	0	
Pfifi	GACN!NNGTC	1	2868
Pfimi	CCANNNN!NTGG	1	1284
PfoI	T!CCNGGA	2	1019; 3525
PhoI	GG!CC	29	84; 277; 655; 836; 1079; 1114; 1148; 1171; 1193; 1303; 1345; 1396; 1716; 1858; 2513; 2519; 2528; 2571; 2658; 2832; 3223; 3250; 3759; 3816; 3849; 4194; 4628; 4646; 4657
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3131
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2696; 2951
PleI	GAGTCNNNN!	3	973; 1801; 2233
PleI	!NNNNNGACTC	6	404; 598; 1395; 1809; 3415; 4292
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1832
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	3962
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3994
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1800
PpsI	GAGTCNNNN!	3	973; 1801; 2233
PpsI	!NNNNNGACTC	6	404; 598; 1395; 1809; 3415; 4292
Ppu10I	A!TGCAT	3	2318; 2390; 4721
Ppu21I	YAC!GTR	3	340; 1866; 3054

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4668
PshAI	GACNN!NNGTC	1	1318
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1533; 1738
PspO3I	GGWC!C	3	1278; 3269; 3714
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	16	88; 281; 860; 908; 1004; 1019; 1148; 2284; 2339; 2356; 3135; 3714; 3817; 4507; 4520; 4641
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	16	88; 281; 860; 908; 1004; 1019; 1148; 2284; 2339; 2356; 3135; 3714; 3817; 4507; 4520; 4641
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	20	467; 647; 655; 662; 741; 801; 1192; 1905; 1926; 1938; 2129; 2290; 2362; 2751; 2786; 3634; 3713; 3758; 4601; 4640
PspOMI	G!GGCCC	1	653
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 2480; 3479
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2882
PspPI	G!GNCC	14	83; 276; 654; 835; 1078; 1170; 1191; 1275; 1857; 3266; 3711; 3757; 3815; 3848
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	2303; 2375; 3881
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	4	930; 1358; 2216; 3411
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3851
PstI	CTGCA!G	1	638
PstNI	CAGNN!CTG	3	1352; 3851; 4259
PsuI	R!GATCY	11	585; 609; 660; 1225; 2921; 3167; 3559; 3918; 3930; 4016; 4027
PsyI	GACN!NNGTC	1	2868
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2248; 2856
RcaI	T!CATGA	2	2176; 3948
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3265
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	1479
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	11	219; 244; 299; 332; 383; 540; 647; 730; 880; 1132; 3056
RsaNI	G!TAC	11	218; 243; 298; 331; 382; 539; 646; 729; 879; 1131; 3055
RseI	CAYNN!NNRTG	5	365; 679; 718; 1123; 3187
RsrII	CG!GWCCG	1	3266
Rsr2I	CG!GWCCG	1	3266
SacI	GAGCT!C	1	620
SacII	CCGC!GG	1	652
SalI	G!TCGAC	1	639
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	689; 3094; 3304
SaqAI	T!TAA	18	7; 704; 929; 1385; 1451; 1512; 1633; 1654; 1665; 1677; 1688; 1705; 1803; 2074; 3893; 3907; 3912; 3964

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SatI	GC!NGC	35	834; 885; 1029; 1146; 1327; 1394; 1397; 1527; 2046; 2068; 2082; 2520; 2659; 2711; 2722; 2812; 2817; 2854; 2895; 2982; 2985; 2988; 3224; 3320; 3361; 3375; 3489; 3828; 3843; 4054; 4260; 4263; 4328; 4471; 4626
Sau96I	G!GNCC	14	83; 276; 654; 835; 1078; 1170; 1191; 1275; 1857; 3266; 3711; 3757; 3815; 3848
Sau3AI	!GATC	23	585; 609; 660; 1049; 1199; 1225; 1407; 2587; 2591; 2610; 2921; 2999; 3080; 3089; 3167; 3543; 3559; 3918; 3930; 4008; 4016; 4027; 4102
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	974; 1802; 2234
SchI	!NNNNNGACTC	6	404; 598; 1395; 1809; 3415; 4292
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	23	90; 283; 657; 658; 862; 910; 1006; 1021; 1150; 1259; 2286; 2341; 2358; 2754; 2914; 3137; 3527; 3716; 3819; 4291; 4509; 4522; 4643
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	6	1116; 1184; 2328; 2400; 2569; 4511
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2905; 3390
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	14	620; 657; 742; 769; 802; 1379; 1941; 2696; 2789; 2863; 3053; 3115; 3825; 4358
SelI	!CGCG	16	58; 649; 1397; 1672; 2048; 2068; 2092; 2123; 2814; 3115; 3553; 3637; 3700; 3769; 4042; 4623
SetI	ASST!	64	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 701; 728; 824; 874; 895; 1046; 1181; 1199; 1250; 1318; 1322; 1337; 1361; 1440; 1461; 1470; 1482; 1531; 1698; 1813; 1825; 1868; 1905; 1955; 1978; 2102; 2250; 2345; 2538; 2651; 2779; 2858; 2869; 2941; 3012; 3056; 3316; 3462; 3506; 3837; 3868; 3927; 3970; 4113; 4134; 4233; 4370; 4385; 4404; 4416; 4460; 4506; 4557
SexAI	A!CCWGGT	1	2339
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	923; 1566; 2329; 2401; 3049; 3113; 3388
SfaNI	!NNNNNNNNNGATGC	8	357; 1076; 1115; 1244; 2708; 2963; 3179; 4571
SfcI	C!TRYAG	4	634; 2085; 4212; 4403
SfiI	GGCCNNNN!NGGCC	1	2525
SfoI	GGC!GCC	1	2751
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	1	652
SfuI	TT!CGAA	2	627; 3432
SgeI	CNNGNNNNNNNNN!	185	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 726; 744; 774; 798; 816; 831; 873; 888; 921; 955; 968; 996; 1017; 1032; 1059; 1093; 1114; 1134; 1147; 1161; 1179; 1192; 1209; 1224; 1242; 1263; 1297; 1335; 1358; 1376; 1410; 1457; 1486; 1528; 1611; 1685; 1769; 1791; 1823; 1860; 1878; 1897; 1912; 1954; 1971; 1988; 2023; 2037; 2054; 2076; 2100; 2124; 2189; 2203; 2241; 2257; 2297; 2310; 2329; 2352; 2369; 2382; 2401; 2431; 2452; 2469; 2492; 2527; 2554; 2585; 2607; 2633; 2655; 2674; 2702; 2738; 2757; 2780; 2794; 2814; 2827; 2841; 2860; 2874; 2893; 2925; 2939; 2952; 2978; 3009; 3022; 3039; 3056; 3070; 3087; 3105; 3120; 3148; 3164; 3183; 3205; 3221; 3244; 3263; 3288; 3307; 3327; 3354; 3378; 3411; 3430; 3458; 3472; 3538; 3562; 3577; 3600; 3621; 3638; 3686; 3713; 3727; 3756; 3780; 3813; 3830; 3850; 3863; 3876; 3934; 3961; 3980; 4010; 4035; 4055; 4069; 4094; 4112; 4149; 4187; 4216; 4244; 4258; 4278; 4293; 4314; 4328; 4347; 4365; 4381; 4421; 4441; 4468; 4486; 4507; 4520; 4533; 4550; 4574; 4597; 4629; 4654; 4681; 4703

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	162	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 700; 718; 748; 772; 790; 814; 847; 895; 929; 970; 991; 1033; 1067; 1088; 1108; 1135; 1153; 1174; 1198; 1216; 1237; 1271; 1309; 1332; 1350; 1384; 1431; 1460; 1502; 1585; 1659; 1743; 1765; 1797; 1834; 1852; 1871; 1928; 1945; 1962; 1997; 2015; 2035; 2055; 2074; 2098; 2163; 2215; 2271; 2303; 2326; 2343; 2375; 2405; 2426; 2443; 2466; 2501; 2528; 2559; 2581; 2607; 2629; 2648; 2676; 2712; 2731; 2754; 2775; 2793; 2810; 2834; 2867; 2899; 2926; 2952; 2983; 3013; 3030; 3056; 3079; 3100; 3122; 3142; 3162; 3179; 3218; 3237; 3262; 3281; 3301; 3328; 3352; 3385; 3404; 3432; 3454; 3512; 3536; 3555; 3574; 3595; 3612; 3660; 3687; 3707; 3730; 3754; 3787; 3804; 3824; 3850; 3908; 3935; 3954; 3984; 4009; 4029; 4068; 4086; 4123; 4161; 4190; 4218; 4239; 4267; 4288; 4321; 4339; 4395; 4415; 4442; 4460; 4481; 4507; 4524; 4548; 4571; 4603; 4628; 4655; 4677; 4706
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	652
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 1897; 3684; 4477
SimI	!GACCC	4	106; 3178; 3746; 3994
SinI	G!GWCC	3	1275; 3266; 3711
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 679; 718; 1123; 3187
SmlI	C!TYRAG	8	613; 619; 1249; 1632; 3141; 4023; 4300; 4562
SmoI	C!TYRAG	8	613; 619; 1249; 1632; 3141; 4023; 4300; 4562
SmuI	CCCGCNNNN!	10	93; 119; 286; 1143; 1245; 2072; 2427; 2448; 3644; 3776
SmuI	!NNNNNNGCGGG	7	644; 1180; 2003; 2873; 3410; 3548; 3695
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2320; 2392; 3155
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	12	18; 629; 1386; 1500; 1564; 1642; 1668; 1679; 2326; 2398; 2490; 3908
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2571
SsiI	C!CGC	36	58; 86; 98; 112; 279; 507; 589; 649; 998; 1136; 1238; 1397; 2065; 2068; 2082; 2172; 2420; 2432; 2441; 2453; 2463; 2474; 2520; 2659; 2722; 3224; 3269; 3335; 3361; 3486; 3489; 3637; 3769; 4076; 4220; 4716
SsiI	G!CGG	28	370; 403; 528; 651; 833; 1145; 1187; 1393; 2010; 2037; 2125; 2235; 2816; 2880; 2981; 2984; 3264; 3319; 3417; 3555; 3702; 3842; 4085; 4330; 4451; 4470; 4597; 4625
SspI	AAT!ATT	2	1658; 2211
SspDI	G!GCGCC	1	2749
SspD5I	GGTGANNNNNNNN!	4	376; 1071; 3821; 3937
SspD5I	!NNNNNNNNNTCACC	3	959; 1866; 2927
SstI	GAGCT!C	1	620
SstII	CCGC!GG	1	652
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	1	1004
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	20	92; 118; 285; 663; 926; 1142; 1244; 1265; 1949; 2071; 2426; 2447; 2760; 3163; 3302; 3373; 3643; 3775; 4005; 4443
Sth132I	!NNNNNNNNNCGGG	21	15; 407; 470; 643; 975; 1179; 1950; 2002; 2103; 2830; 2872; 2905; 3409; 3518; 3547; 3694; 3798; 3829; 4282; 4326; 4534
Sth302II	CC!GG	20	602; 658; 668; 1260; 1969; 2656; 2733; 2755; 2783; 2914; 3004; 3071; 3252; 3527; 3535; 3627; 4101; 4291; 4317; 4464
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	4	2618; 3075; 3100; 3554
StsI	!NNNNNNNNNNNNNNCATCC	5	755; 843; 900; 1055; 2422
StuI	AGG!CCT	1	2571
StyI	C!CWWGG	6	360; 677; 2479; 2572; 3182; 3587

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
StyD4I	!CCNGG	23	88; 281; 655; 656; 860; 908; 1004; 1019; 1148; 1257; 2284; 2339; 2356; 2752; 2912; 3135; 3525; 3714; 3817; 4289; 4507; 4520; 4641
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 645; 744; 1841; 3130; 3246; 3354; 3677; 4168; 4638; 4709
TaiI	ACGT!	16	125; 137; 178; 261; 342; 447; 1046; 1322; 1813; 1825; 1868; 1978; 2869; 3056; 3837; 3970
TaqI	T!CGA	17	614; 627; 640; 827; 854; 1322; 1899; 2590; 2863; 3019; 3043; 3079; 3241; 3432; 3477; 3732; 4570
TaqII	GACCGANNNNNNNNNNN!	3	1770; 2787; 3455
TaqII	!NNNNNNNNNTCGGTC	1	3699
TaqII	CACCCANNNNNNNNNNN!	2	817; 922
TaqII	!NNNNNNNNNTGGGTG	3	172; 2654; 3246
TasI	!AATT	12	18; 629; 1386; 1500; 1564; 1642; 1668; 1679; 2326; 2398; 2490; 3908
TatI	W!GTACW	5	217; 297; 330; 381; 728
TauI	GCSG!C	19	836; 1148; 1396; 1399; 2070; 2084; 2522; 2661; 2724; 2819; 2984; 2987; 3226; 3322; 3363; 3491; 3845; 4473; 4628
TfiI	G!AWTC	7	815; 1292; 3235; 3369; 3479; 3516; 4694
TliI	C!TCGAG	1	613
TruII	T!TAA	18	7; 704; 929; 1385; 1451; 1512; 1633; 1654; 1665; 1677; 1688; 1705; 1803; 2074; 3893; 3907; 3912; 3964
Tru9I	T!TAA	18	7; 704; 929; 1385; 1451; 1512; 1633; 1654; 1665; 1677; 1688; 1705; 1803; 2074; 3893; 3907; 3912; 3964
TscAI	CASTGNN!	5	1596; 2879; 3989; 4260; 4273
TseI	G!CWGC	16	884; 1028; 1326; 1526; 2045; 2710; 2811; 2853; 2894; 2987; 3374; 3827; 4053; 4259; 4262; 4327
TsoI	TARCCANNNNNNNNNNN!	2	1722; 2069
TsoI	!NNNNNNNNNTGGYTA	3	853; 1527; 3279
Tsp45I	!GTSAC	4	966; 2039; 2870; 3176
Tsp509I	!AATT	12	18; 629; 1386; 1500; 1564; 1642; 1668; 1679; 2326; 2398; 2490; 3908
TspDTI	ATGAANNNNNNNNNNN!	4	736; 1508; 2809; 3513
TspDTI	!NNNNNNNNNTTCAT	6	26; 864; 885; 3227; 3683; 3890
TspEI	!AATT	12	18; 629; 1386; 1500; 1564; 1642; 1668; 1679; 2326; 2398; 2490; 3908
TspGWI	ACGGANNNNNNNNNNN!	1	3625
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	5	1596; 2879; 3989; 4260; 4273
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2868
Tth111II	CAARCANNNNNNNNNNN!	1	4077
Tth111II	!NNNNNNNNNTGYTTG	3	3185; 4045; 4084
UnbI	!GGNCC	14	82; 275; 653; 834; 1077; 1169; 1190; 1274; 1856; 3265; 3710; 3756; 3814; 3847
Van91I	CCANNNN!NTGG	1	1284
Vha464I	C!TTAAG	1	1632
VneI	G!TGCAC	2	765; 4354
VpaK11AI	!GGWCC	3	1274; 3265; 3710
VpaK11BI	G!GWCC	3	1275; 3266; 3711
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	629; 1564; 1668; 1679
XbaI	T!CTAGA	1	1404
XceI	RCATG!Y	5	717; 2320; 2392; 3155; 4672
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	11	585; 609; 660; 1225; 2921; 3167; 3559; 3918; 3930; 4016; 4027
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	2572; 3587
XmiI	GT!MKAC	2	640; 1265

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	9	592; 1364; 1405; 1599; 2017; 2573; 3588; 3922; 4175
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2322; 2394; 4725