

pTurboRFP-dest1 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1664; 1869
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1952; 2908; 4697
AatI	AGG!CCT	1	2702
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	640
AccII	CG!CG	17	60; 651; 1091; 1530; 1805; 2181; 2201; 2225; 2256; 2947; 3248; 3686; 3770; 3833; 3902; 4175; 4756
AccIII	T!CCGGA	1	1378
Acc16I	TGC!GCA	1	2983
Acc36I	ACCTGCNNNN!	3	1193; 3149; 3599
Acc36I	!NNNNNNNNGCAGGT	1	2768
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	7	465; 645; 727; 787; 2034; 2880; 2915
AccB7I	CCANNNN!NTGG	2	1260; 1272
AccBSI	CCG!CTC	2	2305; 3494
AccBSI	GAG!CGG	3	1469; 2141; 3548
AceIII	CAGCTCNNNNNNN!	1	1837
AceIII	!NNNNNNNNNNGAGCTG	2	552; 673
AciI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 649; 986; 1124; 1226; 1411; 1528; 2196; 2199; 2213; 2303; 2551; 2563; 2572; 2584; 2594; 2605; 2651; 2790; 2853; 3355; 3400; 3466; 3492; 3617; 3620; 3768; 3900; 4207; 4351; 4847
AciI	G!CGG	31	370; 403; 528; 651; 821; 1091; 1133; 1175; 1417; 1423; 1469; 2141; 2168; 2256; 2366; 2947; 3011; 3112; 3115; 3395; 3450; 3548; 3686; 3833; 3973; 4216; 4461; 4582; 4601; 4728; 4756
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	10	668; 1516; 1529; 2749; 3060; 3306; 3698; 4057; 4155; 4241
AclWI	!NNNNNGATCC	7	580; 655; 1208; 3125; 3669; 4056; 4153
AcoI	Y!GGCCR	6	1331; 1525; 2787; 2961; 3352; 3379
AcsI	R!AATY	4	629; 1695; 1799; 1810
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	1183; 3027; 3459
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4257
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	7	122; 175; 258; 444; 2881; 3583; 3662
AdeI	CACNNN!GTG	2	1260; 1997
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 647; 718; 868; 1120; 1339; 3187
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	23	49; 784; 897; 1063; 1129; 1260; 1272; 1416; 1893; 2219; 2611; 2862; 3406; 3687; 3719; 3851; 3886; 3936; 3968; 4321; 4600; 4766; 4784
AfIII	C!TTAAG	1	1763
AfIII	A!CRYGT	1	4799
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	7	750; 1200; 2292; 2336; 2346; 2759; 4335
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	15	88; 281; 848; 896; 992; 1460; 2415; 2470; 2487; 3266; 3845; 3948; 4638; 4651; 4772
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	0	
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	2	2455; 2527
AlfI	!NNNNNNNNNNNGCANNNNNTGC	2	2421; 2493
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	2	1074; 1963
AloI	!NNNNNNNGGANNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	2	1042; 1931
AluI	AG!CT	19	566; 618; 624; 687; 714; 860; 1004; 1167; 1660; 1827; 2084; 2379; 2667; 2987; 3445; 4242; 4499; 4545; 4635
AluBI	AG!CT	19	566; 618; 624; 687; 714; 860; 1004; 1167; 1660; 1827; 2084; 2379; 2667; 2987; 3445; 4242; 4499; 4545; 4635
AlwI	GGATCNNNN!	10	668; 1516; 1529; 2749; 3060; 3306; 3698; 4057; 4155; 4241
AlwI	!NNNNNGATCC	7	580; 655; 1208; 3125; 3669; 4056; 4153
Alw21I	GWGCW!C	5	620; 757; 2994; 3184; 4489
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1294; 2305; 2723; 3742; 3870
Alw44I	G!TGCAC	2	753; 4485
AlwNI	CAGNN!CTG	2	3982; 4390
Ama87I	C!YCGRG	2	613; 656
Aor13HI	T!CCGGA	1	1378
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNN!TGC	4	1496; 2449; 2521; 3983
ApaLI	G!TGCAC	2	753; 4485
ApeKI	G!CWGC	18	872; 1016; 1314; 1443; 1489; 1657; 2176; 2841; 2942; 2984; 3025; 3118; 3505; 3958; 4184; 4390; 4393; 4458
ApoI	R!AATTY	4	629; 1695; 1799; 1810
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	3396
ApyPI	!NNNNNNNNNNNNNNNNNGTTCGAT	3	3190; 3843; 4681
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	3280
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	848
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	1	2709
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	3451
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNCRAANNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 610; 661; 690; 804; 1038; 1214; 1388; 1509; 1522; 1539; 2719; 2723; 2742; 3053; 3131; 3212; 3221; 3299; 3675; 3691; 4050; 4062; 4140; 4148; 4159; 4234
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2999
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	2703; 3718
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	22	597; 1428; 2147; 2155; 2181; 2203; 2212; 2225; 2256; 2875; 2883; 2947; 2984; 3250; 3510; 3686; 3772; 4175; 4284; 4458; 4558; 4625
AspS9I	G!GNCC	14	83; 276; 654; 823; 1066; 1158; 1263; 1476; 1988; 3397; 3842; 3888; 3946; 3979
AssI	AGT!ACT	1	1339
AsuII	TT!CGAA	2	627; 3563
AsuC2I	CC!SGG	7	657; 658; 1247; 2885; 3045; 3658; 4422
AsuHPI	GGTGANNNNNNNN!	4	376; 1059; 3952; 4068
AsuHPI	!NNNNNNNTCACC	4	948; 1474; 1998; 3059
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	613; 656
AvaII	G!GWCC	4	1263; 1476; 3397; 3842
AviII	TGC!GCA	1	2983

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AvrII	C!CTAGG	2	2703; 3718
AxyI	CC!TNAGG	3	932; 2361; 3993
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	9	657; 730; 757; 790; 1367; 1461; 2827; 2920; 4489
BalI	TGG!CCA	2	1333; 2963
BamHI	G!GATCC	1	660
BanI	G!GYRCC	7	465; 645; 727; 787; 2034; 2880; 2915
BanII	GRGCY!C	5	620; 657; 2072; 3246; 3956
BanIII	AT!CGAT	1	2721
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	2	1260; 1272
BauI	C!ACGAG	3	1318; 3599; 4626
BauI	C!TCGTG	2	1168; 3473
BbeI	GGCGC!C	1	2884
Bbr7I	GAAGACNNNNNN!	1	979
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	974
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	2451; 2523; 3286
BbvI	GCAGCNNNNNNNN!	9	884; 1326; 1501; 1669; 2954; 2996; 3517; 3970; 4470
BbvI	!NNNNNNNNNNNGCTGC	8	1003; 1430; 2163; 2828; 3012; 3105; 4171; 4377
Bbv12I	GWGCW!C	5	620; 757; 2994; 3184; 4489
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	1065; 2011; 2575; 3101; 3603
BccI	!NNNNNGATGG	7	1149; 1317; 1429; 1467; 1979; 2759; 3187
BceAI	ACGGCNNNNNNNNNN!	6	885; 1029; 1080; 1146; 3307; 3794
BceAI	!NNNNNNNNNNNGCCGT	3	2022; 2840; 4299
BceFI	ACGGCNNNNNNNNNN!	6	885; 1029; 1080; 1146; 3307; 3794
BceFI	!NNNNNNNNNNNGCCGT	3	2023; 2841; 4300
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2310; 3100; 4601
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	689
BcnI	CC!SGG	7	657; 658; 1247; 2885; 3045; 3658; 4422
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNNN!	1	4734
BdaI	!NNNNNNNNNTGANNNNNTCA	1	4700
BfaI	C!TAG	10	592; 1352; 1505; 1536; 1730; 2148; 2704; 3719; 4053; 4306
BfiI	ACTGGGNNNNN!	2	1369; 2830
BfiI	!NNNCCCAGT	2	289; 2582
BfmI	C!TRYAG	5	634; 1487; 2216; 4343; 4534
BfoI	RGCGC!Y	5	598; 2148; 2156; 2884; 4559
BfrI	C!TTAAG	1	1763
BfuI	GTATCCNNNNNN!	3	2310; 3100; 4601
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	3	1193; 3149; 3599
BfuAI	!NNNNNNNNCGAGGT	1	2768
BfuCI	!GATC	27	585; 609; 660; 689; 803; 1037; 1213; 1387; 1508; 1521; 1538; 2718; 2722; 2741; 3052; 3130; 3211; 3220; 3298; 3674; 3690; 4049; 4061; 4139; 4147; 4158; 4233
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1142; 2656
BglII	A!GATCT	2	609; 1387

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BisI	GC!NGC	38	822; 873; 1017; 1092; 1134; 1315; 1424; 1444; 1490; 1528; 1658; 2177; 2199; 2213; 2651; 2790; 2842; 2853; 2943; 2948; 2985; 3026; 3113; 3116; 3119; 3355; 3451; 3492; 3506; 3620; 3959; 3974; 4185; 4391; 4394; 4459; 4602; 4757
BlnI	C!CTAGG	2	2703; 3718
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	38	823; 874; 1018; 1093; 1135; 1316; 1425; 1445; 1491; 1529; 1659; 2178; 2200; 2214; 2652; 2791; 2843; 2854; 2944; 2949; 2986; 3027; 3114; 3117; 3120; 3356; 3452; 3493; 3507; 3621; 3960; 3975; 4186; 4392; 4395; 4460; 4603; 4758
BmcAI	AGT!ACT	1	1339
Bme18I	G!GWCC	4	1263; 1476; 3397; 3842
Bme1390I	CC!NGG	22	90; 283; 657; 658; 850; 898; 994; 1247; 1462; 2417; 2472; 2489; 2885; 3045; 3268; 3658; 3847; 3950; 4422; 4640; 4653; 4774
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; 824; 1067; 1159; 1264; 1477; 1989; 3398; 3843; 3889; 3947; 3980
BmiI	GGN!NCC	19	467; 647; 655; 662; 729; 789; 2036; 2057; 2069; 2260; 2421; 2493; 2882; 2917; 3765; 3844; 3889; 4732; 4771
BmrI	ACTGGGNNNNN!	2	1369; 2830
BmrI	!NNNNCCCAGT	2	289; 2582
BmrFI	CC!NGG	22	90; 283; 657; 658; 850; 898; 994; 1247; 1462; 2417; 2472; 2489; 2885; 3045; 3268; 3658; 3847; 3950; 4422; 4640; 4653; 4774
BmsI	GCATCNNNNN!	8	911; 1028; 1697; 2460; 2532; 3180; 3244; 3519
BmsI	!NNNNNNNNNGATGC	8	357; 1064; 1103; 1232; 2839; 3094; 3310; 4702
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1369; 2830
BmuI	!NNNNCCCAGT	2	289; 2582
BoxI	GACNN!NNGTC	1	1306
BpiI	GAAGACNN!	1	974
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2670; 3569
BpI	!NNNNNNNGAGNNNNNCTC	2	2638; 3537
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3721
BpmI	!NNNNNNNNNNNNNCTCCAG	1	3664
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 3563
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	974
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4175; 4714
BpuEI	!NNNNNNNNNNNNNCTCAAG	4	604; 1222; 3257; 4416
BpuMI	CC!SGG	7	657; 658; 1247; 2885; 3045; 3658; 4422
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1294; 3870
Bsa29I	AT!CGAT	1	2721
BsaAI	YAC!GTR	3	340; 1997; 3185
BsaBI	GATNN!NNATC	2	1543; 2740
BsaHI	GR!CGYC	7	122; 175; 258; 444; 2881; 3583; 3662
BsaJI	C!CNNGG	23	360; 649; 656; 761; 896; 897; 992; 1401; 1460; 2415; 2487; 2610; 2645; 2654; 2703; 3044; 3313; 3718; 3845; 3846; 3948; 3949; 4639
BsaMI	GAATGCN!	1	1632
BsaMI	G!CATTC	1	1725
BsaWI	W!CCGGW	7	600; 666; 1378; 2912; 3756; 4446; 4593
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1961
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1931

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BsbI	CAACACNNNNNNNNNNNNNNNNNNNNNN!	1	1130
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	1882; 3789
Bsc4I	CCNNNNN!NNGG	23	49; 784; 897; 1063; 1129; 1260; 1272; 1416; 1893; 2219; 2611; 2862; 3406; 3687; 3719; 3851; 3886; 3936; 3968; 4321; 4600; 4766; 4784
BscAI	GCATCNNNN!	8	910; 1027; 1696; 2459; 2531; 3179; 3243; 3518
BscAI	!NNNNNNGATGC	8	360; 1067; 1106; 1235; 2842; 3097; 3313; 4705
BseI	ACTGGN!	5	1277; 1364; 2825; 3026; 4272
BseI	C!CAGT	5	295; 1910; 2588; 4384; 4397
Bse8I	GATNN!NNATC	2	1543; 2740
Bse2II	CC!TNAGG	3	932; 2361; 3993
Bse118I	R!CCGGY	6	666; 1413; 2098; 3200; 3381; 3664
BseAI	T!CCGGA	1	1378
BseBI	CC!WGG	15	90; 283; 850; 898; 994; 1462; 2417; 2472; 2489; 3268; 3847; 3950; 4640; 4653; 4774
BseCI	AT!CGAT	1	2721
BseDI	C!CNNGG	23	360; 649; 656; 761; 896; 897; 992; 1401; 1460; 2415; 2487; 2610; 2645; 2654; 2703; 3044; 3313; 3718; 3845; 3846; 3948; 3949; 4639
Bse3DI	GCAATGNN!	1	3114
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	6	1437; 1478; 2741; 3198; 3223; 3677
BseGI	!CATCC	5	757; 845; 902; 1057; 2567
BseJI	GATNN!NNATC	2	1543; 2740
BseLI	CCNNNNN!NNGG	23	49; 784; 897; 1063; 1129; 1260; 1272; 1416; 1893; 2219; 2611; 2862; 3406; 3687; 3719; 3851; 3886; 3936; 3968; 4321; 4600; 4766; 4784
BseMI	GCAATGNN!	1	3114
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	3	620; 1398; 4007
BseMII	!NNNNNNNNNCTGAG	7	923; 1129; 2352; 2654; 3535; 4107; 4516
BseNI	ACTGGN!	5	1277; 1364; 2825; 3026; 4272
BseNI	C!CAGT	5	295; 1910; 2588; 4384; 4397
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2699
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGC!C	9	657; 730; 757; 790; 1367; 1461; 2827; 2920; 4489
BseXI	GCAGCNNNNNNNN!	9	884; 1326; 1501; 1669; 2954; 2996; 3517; 3970; 4470
BseXI	!NNNNNNNNNNNGCTGC	8	1003; 1430; 2163; 2828; 3012; 3105; 4171; 4377
BseX3I	C!GGCCG	2	1525; 2787
BseYI	C!CCAGC	3	2424; 2496; 4495
BseYI	G!CTGGG	2	1094; 3385
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	1	1171
Bsh1236I	CG!CG	17	60; 651; 1091; 1530; 1805; 2181; 2201; 2225; 2256; 2947; 3248; 3686; 3770; 3833; 3902; 4175; 4756
Bsh1285I	CGRY!CG	4	671; 1528; 2790; 4465
BshFI	GG!CC	29	84; 277; 655; 824; 1067; 1102; 1136; 1145; 1159; 1291; 1333; 1527; 1847; 1989; 2644; 2650; 2659; 2702; 2789; 2963; 3354; 3381; 3890; 3947; 3980; 4325; 4759; 4777; 4788
BshNI	G!GYRCC	7	465; 645; 727; 787; 2034; 2880; 2915
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	2721
BsiEI	CGRY!CG	4	671; 1528; 2790; 4465
BsiHKAI	GWGCW!C	5	620; 757; 2994; 3184; 4489
BsiHKCI	C!YCGRG	2	613; 656
BsiSI	C!CGG	22	601; 657; 667; 1247; 1379; 1414; 2099; 2786; 2863; 2885; 2913; 3044; 3134; 3201; 3382; 3657; 3665; 3757; 4231; 4421; 4447; 4594
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	23	49; 784; 897; 1063; 1129; 1260; 1272; 1416; 1893; 2219; 2611; 2862; 3406; 3687; 3719; 3851; 3886; 3936; 3968; 4321; 4600; 4766; 4784
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3032; 3564; 3673
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2397; 2469; 2533; 3828
BsmI	GAATGCN!	1	1632

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BsmI	G!CATTC	1	1725
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	1294; 2305; 2723; 3742; 3870
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3032; 3564; 3673
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2397; 2469; 2533; 3828
BsnI	GG!CC	29	84; 277; 655; 824; 1067; 1102; 1136; 1145; 1159; 1291; 1333; 1527; 1847; 1989; 2644; 2650; 2659; 2702; 2789; 2963; 3354; 3381; 3890; 3947; 3980; 4325; 4759; 4777; 4788
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	1294; 3870
BsoBI	C!YCGRG	2	613; 656
Bsp13I	T!CCGGA	1	1378
Bsp19I	C!CATGG	4	360; 1401; 2610; 3313
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 3684
Bsp24I	!NNNNNNCCANNNNNGTC	2	4105; 4283
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4137; 4315
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 3652
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 3563
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	27	585; 609; 660; 689; 803; 1037; 1213; 1387; 1508; 1521; 1538; 2718; 2722; 2741; 3052; 3130; 3211; 3220; 3298; 3674; 3690; 4049; 4061; 4139; 4147; 4158; 4233
Bsp1286I	GDGCH!C	15	620; 657; 730; 757; 790; 1367; 1461; 2072; 2827; 2920; 2994; 3184; 3246; 3956; 4489
Bsp1407I	T!GTACA	1	716
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 649; 986; 1124; 1226; 1411; 1528; 2196; 2199; 2213; 2303; 2551; 2563; 2572; 2584; 2594; 2605; 2651; 2790; 2853; 3355; 3400; 3466; 3492; 3617; 3620; 3768; 3900; 4207; 4351; 4847
BspACI	G!CGG	31	370; 403; 528; 651; 821; 1091; 1133; 1175; 1417; 1423; 1469; 2141; 2168; 2256; 2366; 2947; 3011; 3112; 3115; 3395; 3450; 3548; 3686; 3833; 3973; 4216; 4461; 4582; 4601; 4728; 4756
BspCNI	CTCAGNNNNNNNN!	3	619; 1397; 4006
BspCNI	!NNNNNNCTGAG	7	924; 1130; 2353; 2655; 3536; 4108; 4517
BspDI	AT!CGAT	1	2721
BspD6I	GACTCNNNN!	7	418; 612; 1390; 1540; 1954; 3560; 4437
BspD6I	!NNNNNGAGTC	2	1917; 2349
BspEI	T!CCGGA	1	1378
BspFNI	CG!CG	17	60; 651; 1091; 1530; 1805; 2181; 2201; 2225; 2256; 2947; 3248; 3686; 3770; 3833; 3902; 4175; 4756
BspHI	T!CATGA	2	2307; 4079
BspLI	GGN!NCC	19	467; 647; 655; 662; 729; 789; 2036; 2057; 2069; 2260; 2421; 2493; 2882; 2917; 3765; 3844; 3889; 4732; 4771
BspMI	ACCTGCNNNN!	3	1193; 3149; 3599
BspMI	!NNNNNNNGCAGGT	1	2768
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	10	668; 1516; 1529; 2749; 3060; 3306; 3698; 4057; 4155; 4241
BspPI	!NNNNNGATCC	7	580; 655; 1208; 3125; 3669; 4056; 4153
BspQI	GCTCTCN!	0	
BspQI	!NNNGAAGAGC	2	3225; 3435
BspTI	C!TTAAG	1	1763
BspT104I	TT!CGAA	2	627; 3563
BspT107I	G!GYRCC	7	465; 645; 727; 787; 2034; 2880; 2915
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1294; 3870
BsrI	ACTGGN!	5	1277; 1364; 2825; 3026; 4272
BsrI	C!CAGT	5	295; 1910; 2588; 4384; 4397
BsrBI	CCG!CTC	2	2305; 3494
BsrBI	GAG!CGG	3	1469; 2141; 3548
BsrDI	GCAATGNN!	1	3114
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	6	666; 1413; 2098; 3200; 3381; 3664

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrGI	T!GTACA	1	716
BsrSI	ACTGGN!	5	1277; 1364; 2825; 3026; 4272
BsrSI	C!CAGT	5	295; 1910; 2588; 4384; 4397
BssAI	R!CCGGY	6	666; 1413; 2098; 3200; 3381; 3664
BssECI	C!CNNGG	23	360; 649; 656; 761; 896; 897; 992; 1401; 1460; 2415; 2487; 2610; 2645; 2654; 2703; 3044; 3313; 3718; 3845; 3846; 3948; 3949; 4639
BssHII	G!CGCGC	0	
BssKI	!CCNGG	22	88; 281; 655; 656; 848; 896; 992; 1245; 1460; 2415; 2470; 2487; 2883; 3043; 3266; 3656; 3845; 3948; 4420; 4638; 4651; 4772
BssMI	!GATC	27	585; 609; 660; 689; 803; 1037; 1213; 1387; 1508; 1521; 1538; 2718; 2722; 2741; 3052; 3130; 3211; 3220; 3298; 3674; 3690; 4049; 4061; 4139; 4147; 4158; 4233
BssNI	GR!CGYC	7	122; 175; 258; 444; 2881; 3583; 3662
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1318; 3599; 4626
BssSI	C!TCGTG	2	1168; 3473
BssTII	C!CWWGG	6	360; 1401; 2610; 2703; 3313; 3718
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	3	2348; 3225; 3435
Bst98I	C!TTAAG	1	1763
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	7	122; 175; 258; 444; 2881; 3583; 3662
BstAFI	C!TTAAG	1	1763
BstAPI	GCANNNN!NTGC	4	1495; 2448; 2520; 3982
BstAUI	T!GTACA	1	716
BstBI	TT!CGAA	2	627; 3563
Bst2BI	C!ACGAG	3	1318; 3599; 4626
Bst2BI	C!TCGTG	2	1168; 3473
BstBAI	YAC!GTR	3	340; 1997; 3185
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 645; 732; 1480; 1972; 3261; 3377; 3485; 3808; 4299; 4769; 4840
BstC8I	GCN!NGC	34	86; 279; 593; 653; 685; 775; 979; 1415; 1441; 2100; 2143; 2157; 2430; 2449; 2502; 2521; 2775; 2961; 3180; 3246; 3252; 3280; 3284; 3325; 3329; 3383; 3666; 3853; 3900; 3956; 3978; 4189; 4749; 4786
BstDEI	C!TNAG	11	606; 932; 1138; 1229; 1384; 2361; 2663; 3544; 3993; 4116; 4525
BstDSI	C!CRYGG	5	360; 649; 1401; 2610; 3313
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	6	1437; 1478; 2741; 3198; 3223; 3677
BstF5I	!CATCC	5	757; 845; 902; 1057; 2567
BstFNI	CG!CG	17	60; 651; 1091; 1530; 1805; 2181; 2201; 2225; 2256; 2947; 3248; 3686; 3770; 3833; 3902; 4175; 4756
BstH2I	RGCGC!Y	5	598; 2148; 2156; 2884; 4559
BstHHI	GCG!C	22	597; 1428; 2147; 2155; 2181; 2203; 2212; 2225; 2256; 2875; 2883; 2947; 2984; 3250; 3510; 3686; 3772; 4175; 4284; 4458; 4558; 4625
BstKTI	GAT!C	27	588; 612; 663; 692; 806; 1040; 1216; 1390; 1511; 1524; 1541; 2721; 2725; 2744; 3055; 3133; 3214; 3223; 3301; 3677; 3693; 4052; 4064; 4142; 4150; 4161; 4236
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	5	1294; 2305; 2723; 3742; 3870
BstMBI	!GATC	27	585; 609; 660; 689; 803; 1037; 1213; 1387; 1508; 1521; 1538; 2718; 2722; 2741; 3052; 3130; 3211; 3220; 3298; 3674; 3690; 4049; 4061; 4139; 4147; 4158; 4233
BstMCI	CGRY!CG	4	671; 1528; 2790; 4465
BstMWI	GCNNNNN!NNGC	29	90; 212; 244; 283; 376; 400; 711; 1142; 1423; 1495; 2108; 2138; 2165; 2207; 2448; 2520; 2571; 2650; 2872; 2956; 2979; 3118; 3241; 3324; 3591; 3778; 3982; 4181; 4753
BstNI	CC!WGG	15	90; 283; 850; 898; 994; 1462; 2417; 2472; 2489; 3268; 3847; 3950; 4640; 4653; 4774
BstNSI	RCATG!Y	5	705; 2451; 2523; 3286; 4803
BstOI	CC!WGG	15	90; 283; 850; 898; 994; 1462; 2417; 2472; 2489; 3268; 3847; 3950; 4640; 4653; 4774

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1306
BstSCI	!CCNGG	22	88; 281; 655; 656; 848; 896; 992; 1245; 1460; 2415; 2470; 2487; 2883; 3043; 3266; 3656; 3845; 3948; 4420; 4638; 4651; 4772
BstSFI	C!TRYAG	5	634; 1487; 2216; 4343; 4534
BstSLI	GKGCMI!C	9	657; 730; 757; 790; 1367; 1461; 2827; 2920; 4489
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	17	60; 651; 1091; 1530; 1805; 2181; 2201; 2225; 2256; 2947; 3248; 3686; 3770; 3833; 3902; 4175; 4756
Bst2UI	CC!WGG	15	90; 283; 850; 898; 994; 1462; 2417; 2472; 2489; 3268; 3847; 3950; 4640; 4653; 4774
BstV1I	GCAGCNNNNNNNN!	9	884; 1326; 1501; 1669; 2954; 2996; 3517; 3970; 4470
BstV1I	!NNNNNNNNNNNGCTGC	8	1003; 1430; 2163; 2828; 3012; 3105; 4171; 4377
BstV2I	GAAGACNN!	1	974
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	12	585; 609; 660; 1213; 1387; 3052; 3298; 3690; 4049; 4061; 4147; 4158
BstYI	R!GATCY	12	585; 609; 660; 1213; 1387; 3052; 3298; 3690; 4049; 4061; 4147; 4158
BstZI	C!GGCCG	2	1525; 2787
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2310; 3100; 4601
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2721
Bsu36I	CC!TNAGG	3	932; 2361; 3993
BsuRI	GG!CC	29	84; 277; 655; 824; 1067; 1102; 1136; 1145; 1159; 1291; 1333; 1527; 1847; 1989; 2644; 2650; 2659; 2702; 2789; 2963; 3354; 3381; 3890; 3947; 3980; 4325; 4759; 4777; 4788
BsuTUI	AT!CGAT	1	2721
BtgI	C!CRYGG	5	360; 649; 1401; 2610; 3313
BtgZI	GCGATGNNNNNNNNNN!	2	1998; 3333
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3152; 3496
BthCI	GCNG!C	38	824; 875; 1019; 1094; 1136; 1317; 1426; 1446; 1492; 1530; 1660; 2179; 2201; 2215; 2653; 2792; 2844; 2855; 2945; 2950; 2987; 3028; 3115; 3118; 3121; 3357; 3453; 3494; 3508; 3622; 3961; 3976; 4187; 4393; 4396; 4461; 4604; 4759
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	1188; 1720
BtsCI	GGATGNN!	6	1437; 1478; 2741; 3198; 3223; 3677
BtsCI	!CATCC	5	757; 845; 902; 1057; 2567
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	1193; 3149; 3599
BveI	!NNNNNNNNGCAGGT	1	2768
Cac8I	GCN!NGC	34	86; 279; 593; 653; 685; 775; 979; 1415; 1441; 2100; 2143; 2157; 2430; 2449; 2502; 2521; 2775; 2961; 3180; 3246; 3252; 3280; 3284; 3325; 3329; 3383; 3666; 3853; 3900; 3956; 3978; 4189; 4749; 4786
CaiI	CAGNNN!CTG	2	3982; 4390
CciI	T!CATGA	2	2307; 4079
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	352; 3170; 3175; 3373; 3514
CdiI	C!GATG	2	1984; 3319
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4753
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2542; 2584
CelII	GC!TNAGC	0	
CfoI	GCG!C	22	597; 1428; 2147; 2155; 2181; 2203; 2212; 2225; 2256; 2875; 2883; 2947; 2984; 3250; 3510; 3686; 3772; 4175; 4284; 4458; 4558; 4625
CfrI	Y!GGCCR	6	1331; 1525; 2787; 2961; 3352; 3379
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	6	666; 1413; 2098; 3200; 3381; 3664
Cfr13I	G!GNCC	14	83; 276; 654; 823; 1066; 1158; 1263; 1476; 1988; 3397; 3842; 3888; 3946; 3979

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cfr42I	CCGC!GG	1	652
ChaI	GATC!	27	589; 613; 664; 693; 807; 1041; 1217; 1391; 1512; 1525; 1542; 2722; 2726; 2745; 3056; 3134; 3215; 3224; 3302; 3678; 3694; 4053; 4065; 4143; 4151; 4162; 4237
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	6	769; 1473; 2698; 4138; 4238; 4316
CjeI	!NNNNNNNNNACNNNNNTGG	7	64; 257; 2365; 2460; 3652; 4202; 4757
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2399; 2494; 3686; 4236; 4791
CjeI	!NNNNNNNNCCANNNNNNGT	6	735; 1439; 2664; 4104; 4204; 4282
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	2	4138; 4316
CjePI	!NNNNNNNGANNNNNNNTGG	3	257; 3652; 4251
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 3685; 4284
CjePI	!NNNNNNCCANNNNNNTC	2	4105; 4283
Clal	AT!CGAT	1	2721
CpoI	CG!GWCCG	1	3397
CseI	GACGCNNNNN!	3	526; 3591; 3670
CseI	!NNNNNNNNNGCGTC	3	2214; 4109; 4687
CsiI	A!CCWGGT	1	2470
CspI	CG!GWCCG	1	3397
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 717; 867; 1119; 1338; 3186
Csp45I	TT!CGAA	2	627; 3563
CspAI	A!CCGGT	1	666
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	719; 1310; 2161; 3770
CstMI	!NNNNNNNNNNNNNNNNNCTCCT	1	1175
CviAII	C!ATG	24	301; 361; 678; 702; 708; 720; 798; 864; 944; 1402; 1449; 2308; 2448; 2520; 2611; 2752; 3097; 3283; 3314; 3340; 3696; 4080; 4800; 4851
CviJI	RG!CY	101	42; 84; 93; 277; 566; 618; 624; 655; 687; 714; 777; 824; 853; 860; 880; 938; 1004; 1016; 1067; 1094; 1102; 1136; 1145; 1151; 1159; 1167; 1181; 1250; 1291; 1327; 1333; 1400; 1406; 1492; 1527; 1550; 1660; 1827; 1847; 1989; 2070; 2084; 2098; 2379; 2420; 2492; 2615; 2644; 2650; 2659; 2667; 2690; 2702; 2708; 2789; 2806; 2814; 2841; 2866; 2950; 2959; 2963; 2987; 3025; 3101; 3118; 3137; 3200; 3244; 3254; 3271; 3354; 3381; 3385; 3422; 3445; 3461; 3641; 3668; 3729; 3851; 3890; 3947; 3954; 3961; 3980; 3991; 4242; 4271; 4314; 4325; 4390; 4469; 4494; 4499; 4545; 4635; 4733; 4759; 4777; 4788
CviKI-1	RG!CY	101	42; 84; 93; 277; 566; 618; 624; 655; 687; 714; 777; 824; 853; 860; 880; 938; 1004; 1016; 1067; 1094; 1102; 1136; 1145; 1151; 1159; 1167; 1181; 1250; 1291; 1327; 1333; 1400; 1406; 1492; 1527; 1550; 1660; 1827; 1847; 1989; 2070; 2084; 2098; 2379; 2420; 2492; 2615; 2644; 2650; 2659; 2667; 2690; 2702; 2708; 2789; 2806; 2814; 2841; 2866; 2950; 2959; 2963; 2987; 3025; 3101; 3118; 3137; 3200; 3244; 3254; 3271; 3354; 3381; 3385; 3422; 3445; 3461; 3641; 3668; 3729; 3851; 3890; 3947; 3954; 3961; 3980; 3991; 4242; 4271; 4314; 4325; 4390; 4469; 4494; 4499; 4545; 4635; 4733; 4759; 4777; 4788
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 717; 867; 1119; 1338; 3186
DdeI	C!TNAG	11	606; 932; 1138; 1229; 1384; 2361; 2663; 3544; 3993; 4116; 4525
DinI	GGC!GCC	1	2882
DpnI	GA!TC	27	587; 611; 662; 691; 805; 1039; 1215; 1389; 1510; 1523; 1540; 2720; 2724; 2743; 3054; 3132; 3213; 3222; 3300; 3676; 3692; 4051; 4063; 4141; 4149; 4160; 4235
DpnII	!GATC	27	585; 609; 660; 689; 803; 1037; 1213; 1387; 1508; 1521; 1538; 2718; 2722; 2741; 3052; 3130; 3211; 3220; 3298; 3674; 3690; 4049; 4061; 4139; 4147; 4158; 4233
DraI	TTT!AAA	3	1583; 4025; 4044
DraII	RG!GNCCY	1	3979
DraIII	CACNN!GTG	2	1260; 1997
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 1361; 4361
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1952; 2908; 4697

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1952; 2908; 4697
EaeI	Y!GGCCG	6	1331; 1525; 2787; 2961; 3352; 3379
EagI	C!GGCCG	2	1525; 2787
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2348; 3225; 3435
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	2348; 3225; 3435
EciI	GGCGGANNNNNNNNNNNN!	4	2381; 3410; 4597; 4743
EciI	!NNNNNNNNNTCCGCC	4	496; 2552; 2573; 2594
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	2	1525; 2787
Eco24I	GRGCY!C	5	620; 657; 2072; 3246; 3956
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	1294; 3870
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	1263; 1476; 3397; 3842
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1525; 2787
Eco57I	CTGAAGNNNNNNNNNNNNNN!	3	1183; 3027; 3459
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4257
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	932; 2361; 3993
Eco88I	C!YCGRG	2	613; 656
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 1401; 2610; 2703; 3313; 3718
Eco147I	AGG!CCT	1	2702
EcoHI	!CCSGG	7	655; 656; 1245; 2883; 3043; 3656; 4420
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	4	1183; 3027; 3459; 3721
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	2	3664; 4257
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	3979
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	15	88; 281; 848; 896; 992; 1460; 2415; 2470; 2487; 3266; 3845; 3948; 4638; 4651; 4772
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 1401; 2610; 2703; 3313; 3718
EcoT22I	ATGCA!T	3	2453; 2525; 4856
EcoT38I	GRGCY!C	5	620; 657; 2072; 3246; 3956
Eco53kI	GAG!CTC	1	618
EgeI	GGC!GCC	1	2882
EheI	GGC!GCC	1	2882
ErhI	C!CWWGG	6	360; 1401; 2610; 2703; 3313; 3718
EsaBC3I	TC!GA	18	615; 628; 641; 816; 843; 1311; 1393; 2031; 2722; 2995; 3151; 3175; 3211; 3373; 3564; 3609; 3864; 4702
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	24	304; 364; 681; 705; 711; 723; 801; 867; 947; 1405; 1452; 2311; 2451; 2523; 2614; 2755; 3100; 3286; 3317; 3343; 3699; 4083; 4803; 4854
FaiI	YA!TR	62	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 703; 709; 721; 799; 865; 945; 963; 1209; 1403; 1450; 1543; 1553; 1619; 1664; 1869; 2297; 2309; 2440; 2449; 2512; 2521; 2545; 2612; 2636; 2753; 2817; 3098; 3123; 3284; 3315; 3341; 3413; 3629; 3697; 3775; 3827; 3988; 4005; 4007; 4009; 4081; 4359; 4548; 4664; 4737; 4801; 4852
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	942; 3221
FalI	!NNNNNNNNAAGNNNNNCTT	2	910; 3189
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3032; 3564; 3673
FaqI	!NNNNNNNNNNNNNGTCCC	4	2397; 2469; 2533; 3828

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FatI	!CATG	24	300; 360; 677; 701; 707; 719; 797; 863; 943; 1401; 1448; 2307; 2447; 2519; 2610; 2751; 3096; 3282; 3313; 3339; 3695; 4079; 4799; 4850
FauI	CCCGCNNNN!	11	93; 119; 286; 1131; 1233; 1418; 2203; 2558; 2579; 3775; 3907
FauI	!NNNNNNGCGGG	8	644; 1168; 1462; 2134; 3004; 3541; 3679; 3826
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	689
FblI	GT!MKAC	1	640
FmuI	GGNC!C	14	86; 279; 657; 826; 1069; 1161; 1266; 1479; 1991; 3400; 3845; 3891; 3949; 3982
Fnu4HI	GC!NGC	38	822; 873; 1017; 1092; 1134; 1315; 1424; 1444; 1490; 1528; 1658; 2177; 2199; 2213; 2651; 2790; 2842; 2853; 2943; 2948; 2985; 3026; 3113; 3116; 3119; 3355; 3451; 3492; 3506; 3620; 3959; 3974; 4185; 4391; 4394; 4459; 4602; 4757
FokI	GGATGNNNNNNNNN!	6	1444; 1485; 2748; 3205; 3230; 3684
FokI	!NNNNNNNNNNNNNNNNCATCC	5	744; 832; 889; 1044; 2554
FriOI	GRGCY!C	5	620; 657; 2072; 3246; 3956
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2983
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	10	592; 1352; 1505; 1536; 1730; 2148; 2704; 3719; 4053; 4306
FspEI	CCNNNNNNNNNNNNN!	162	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 744; 774; 791; 805; 838; 852; 870; 894; 909; 939; 972; 999; 1014; 1069; 1116; 1135; 1150; 1165; 1198; 1218; 1238; 1259; 1279; 1305; 1347; 1363; 1392; 1414; 1460; 1474; 1492; 1506; 1541; 1564; 1603; 1617; 1758; 1853; 1877; 1900; 1923; 1941; 1963; 1984; 2003; 2022; 2051; 2072; 2086; 2112; 2200; 2226; 2275; 2316; 2334; 2373; 2389; 2427; 2484; 2499; 2556; 2576; 2590; 2607; 2621; 2658; 2673; 2716; 2799; 2866; 2897; 2917; 2932; 2977; 2991; 3057; 3071; 3090; 3106; 3147; 3167; 3214; 3264; 3280; 3300; 3325; 3345; 3368; 3395; 3413; 3439; 3479; 3505; 3529; 3585; 3599; 3627; 3670; 3691; 3726; 3770; 3858; 3882; 3904; 3924; 3940; 3961; 3975; 3994; 4078; 4098; 4126; 4141; 4175; 4217; 4244; 4259; 4304; 4328; 4342; 4364; 4390; 4410; 4434; 4460; 4508; 4527; 4546; 4572; 4607; 4652; 4682; 4696; 4747; 4761; 4786; 4802; 4823; 4852
FspEI	!NNNNNNNNNNNNNNNGG	134	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 679; 706; 748; 769; 793; 835; 854; 883; 919; 956; 979; 998; 1028; 1049; 1076; 1115; 1141; 1160; 1232; 1258; 1309; 1345; 1364; 1388; 1408; 1447; 1491; 1509; 1552; 1652; 1721; 1751; 1829; 1878; 1900; 1928; 1964; 2009; 2038; 2074; 2093; 2121; 2141; 2204; 2227; 2335; 2367; 2385; 2414; 2457; 2486; 2597; 2626; 2669; 2690; 2718; 2751; 2771; 2796; 2823; 2848; 2870; 2898; 2924; 2945; 2996; 3017; 3035; 3083; 3119; 3175; 3200; 3224; 3253; 3276; 3300; 3326; 3348; 3367; 3392; 3432; 3468; 3533; 3618; 3642; 3671; 3705; 3726; 3746; 3791; 3818; 3837; 3870; 3922; 3953; 3980; 4032; 4130; 4201; 4246; 4307; 4372; 4406; 4432; 4450; 4486; 4556; 4579; 4601; 4625; 4658; 4706; 4741; 4759; 4816
Fsp4HI	GC!NGC	38	822; 873; 1017; 1092; 1134; 1315; 1424; 1444; 1490; 1528; 1658; 2177; 2199; 2213; 2651; 2790; 2842; 2853; 2943; 2948; 2985; 3026; 3113; 3116; 3119; 3355; 3451; 3492; 3506; 3620; 3959; 3974; 4185; 4391; 4394; 4459; 4602; 4757
GdiII	C!GGCCR	2	1525; 2787
GdiII	Y!GGCCG	4	1525; 2787; 3352; 3379
GlaI	GC!GC	22	596; 1427; 2146; 2154; 2180; 2202; 2211; 2224; 2255; 2874; 2882; 2946; 2983; 3249; 3509; 3685; 3771; 4174; 4283; 4457; 4557; 4624
GluI	GC!NGC	38	822; 873; 1017; 1092; 1134; 1315; 1424; 1444; 1490; 1528; 1658; 2177; 2199; 2213; 2651; 2790; 2842; 2853; 2943; 2948; 2985; 3026; 3113; 3116; 3119; 3355; 3451; 3492; 3506; 3620; 3959; 3974; 4185; 4391; 4394; 4459; 4602; 4757
GsaI	CCCAG!C	3	2428; 2500; 4499
GsaI	GCTGG!G	2	1098; 3389
GsuI	CTGGAGNNNNNNNNNNNNNNN!	1	3721
GsuI	!NNNNNNNNNNNNNNNNCTCCAG	1	3664
HaeI	WGG!CCW	8	1102; 1145; 1333; 2702; 2963; 4325; 4777; 4788
HaeII	RGCGC!Y	5	598; 2148; 2156; 2884; 4559

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIII	GG↓CC	29	84; 277; 655; 824; 1067; 1102; 1136; 1145; 1159; 1291; 1333; 1527; 1847; 1989; 2644; 2650; 2659; 2702; 2789; 2963; 3354; 3381; 3890; 3947; 3980; 4325; 4759; 4777; 4788
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	4	1412; 1497; 1556; 3077
HaeIV	!NNNNNNNNNGAYNNNNNRTC	4	1378; 1463; 1522; 3043
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	4	1411; 1496; 1555; 3076
HaeIV	!NNNNNNNGAYNNNNNRTC	4	1380; 1465; 1524; 3045
HapII	C↓ICGG	22	601; 657; 667; 1247; 1379; 1414; 2099; 2786; 2863; 2885; 2913; 3044; 3134; 3201; 3382; 3657; 3665; 3757; 4231; 4421; 4447; 4594
HgaI	GACGCNNNNN!	3	526; 3591; 3670
HgaI	!NNNNNNNNNNGCGTC	3	2214; 4109; 4687
HhaI	GCG↓C	22	597; 1428; 2147; 2155; 2181; 2203; 2212; 2225; 2256; 2875; 2883; 2947; 2984; 3250; 3510; 3686; 3772; 4175; 4284; 4458; 4558; 4625
HinI	GR↓CGYC	7	122; 175; 258; 444; 2881; 3583; 3662
HinIII	CATG↓!	24	304; 364; 681; 705; 711; 723; 801; 867; 947; 1405; 1452; 2311; 2451; 2523; 2614; 2755; 3100; 3286; 3317; 3343; 3699; 4083; 4803; 4854
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	4	1411; 1496; 1555; 3076
Hin4I	!NNNNNNNNNGABNNNNNRTC	5	1379; 1464; 1523; 3044; 3074
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	5	1411; 1496; 1555; 3076; 3106
Hin4I	!NNNNNNNNNGAYNNNNNVTC	4	1379; 1464; 1523; 3044
Hin6I	G↓ICGC	22	595; 1426; 2145; 2153; 2179; 2201; 2210; 2223; 2254; 2873; 2881; 2945; 2982; 3248; 3508; 3684; 3770; 4173; 4282; 4456; 4556; 4623
HinPII	G↓ICGC	22	595; 1426; 2145; 2153; 2179; 2201; 2210; 2223; 2254; 2873; 2881; 2945; 2982; 3248; 3508; 3684; 3770; 4173; 4282; 4456; 4556; 4623
HincII	GTY↓!RAC	2	641; 1644
HindII	GTY↓!RAC	2	641; 1644
HindIII	A↓AGCTT	1	622
HinfI	G↓ANTC	18	410; 604; 953; 1280; 1375; 1382; 1394; 1532; 1924; 1946; 2356; 3366; 3500; 3552; 3610; 3647; 4429; 4825
HpaI	GTT↓AAC	1	1644
HpaII	C↓ICGG	22	601; 657; 667; 1247; 1379; 1414; 2099; 2786; 2863; 2885; 2913; 3044; 3134; 3201; 3382; 3657; 3665; 3757; 4231; 4421; 4447; 4594
HphI	GGTGANNNNNNNN!	4	376; 1059; 3952; 4068
HphI	!NNNNNNNTCACC	4	948; 1474; 1998; 3059
Hpy8I	GTN↓NAC	13	201; 539; 577; 641; 735; 755; 1050; 1263; 1644; 1928; 1945; 2000; 4487
Hpy99I	CGWCG↓!	9	645; 1312; 2971; 2999; 3293; 3308; 3585; 3970; 4703
Hpy166II	GTN↓NAC	13	201; 539; 577; 641; 735; 755; 1050; 1263; 1644; 1928; 1945; 2000; 4487
Hpy188I	TCN↓GA	14	585; 609; 762; 1387; 2055; 2664; 2848; 3192; 3545; 3646; 4125; 4259; 4612; 4690
Hpy188III	TC↓NNGA	27	613; 1008; 1035; 1200; 1239; 1379; 1391; 1536; 2308; 2360; 2673; 2726; 2899; 3215; 3224; 3307; 3363; 3407; 3497; 3530; 3599; 4080; 4154; 4237; 4335; 4433; 4567
HpyAV	CCTTCNNNNNN!	7	843; 891; 936; 1206; 3526; 3633; 4312
HpyAV	!NNNNNGAAGG	8	763; 2114; 3009; 3738; 3754; 3937; 4254; 4564
HpyCH4III	ACN↓!GT	16	76; 198; 269; 543; 581; 645; 732; 1480; 1972; 3261; 3377; 3485; 3808; 4299; 4769; 4840
HpyCH4IV	A↓!CGT	16	122; 134; 175; 258; 339; 444; 1031; 1307; 1941; 1953; 1996; 2106; 2997; 3184; 3965; 4098
HpyCH4V	TG↓!CA	23	636; 705; 755; 1019; 1077; 1188; 1489; 1630; 1657; 1725; 2442; 2451; 2514; 2523; 2638; 2714; 2773; 2932; 3107; 3121; 4191; 4487; 4854
HpyF3I	C↓!TNAG	11	606; 932; 1138; 1229; 1384; 2361; 2663; 3544; 3993; 4116; 4525
HpyF10VI	GCNNNNN!NNGC	29	90; 212; 244; 283; 376; 400; 711; 1142; 1423; 1495; 2108; 2138; 2165; 2207; 2448; 2520; 2571; 2650; 2872; 2956; 2979; 3118; 3241; 3324; 3591; 3778; 3982; 4181; 4753
Hsp92I	GR↓CGYC	7	122; 175; 258; 444; 2881; 3583; 3662
Hsp92II	CATG↓!	24	304; 364; 681; 705; 711; 723; 801; 867; 947; 1405; 1452; 2311; 2451; 2523; 2614; 2755; 3100; 3286; 3317; 3343; 3699; 4083; 4803; 4854

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HspAI	G!CGC	22	595; 1426; 2145; 2153; 2179; 2201; 2210; 2223; 2254; 2873; 2881; 2945; 2982; 3248; 3508; 3684; 3770; 4173; 4282; 4456; 4556; 4623
KasI	G!GCGCC	1	2880
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	649
Kpn2I	T!CCGGA	1	1378
KspI	CCGC!GG	1	652
Ksp22I	T!GATCA	1	689
KspAI	GTT!AAC	1	1644
Kzo9I	!GATC	27	585; 609; 660; 689; 803; 1037; 1213; 1387; 1508; 1521; 1538; 2718; 2722; 2741; 3052; 3130; 3211; 3220; 3298; 3674; 3690; 4049; 4061; 4139; 4147; 4158; 4233
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	3225; 3435
LpnI	RGC!GCV	5	596; 2146; 2154; 2882; 4557
LpnPI	CCDGNNNNNNNNNN!	63	102; 295; 614; 670; 805; 862; 910; 944; 1006; 1021; 1082; 1150; 1165; 1198; 1260; 1392; 1427; 1474; 1499; 1618; 1923; 2112; 2335; 2373; 2389; 2429; 2484; 2501; 2601; 2686; 2799; 2876; 2898; 2921; 3057; 3071; 3090; 3147; 3214; 3264; 3280; 3337; 3395; 3604; 3670; 3694; 3770; 3859; 3962; 3995; 4226; 4244; 4390; 4410; 4434; 4460; 4509; 4607; 4652; 4682; 4761; 4786; 4823
LpnPI	!NNNNNNNNNNNNNCHGG	56	75; 268; 552; 586; 642; 835; 883; 979; 1080; 1232; 1258; 1345; 1364; 1399; 1447; 1964; 2084; 2141; 2204; 2402; 2414; 2474; 2486; 2718; 2763; 2806; 2848; 2870; 2898; 2945; 3007; 3029; 3119; 3186; 3209; 3253; 3348; 3367; 3392; 3541; 3642; 3685; 3742; 3832; 3935; 3962; 3980; 4216; 4253; 4406; 4432; 4572; 4590; 4625; 4706; 4759
Lsp1109I	GCAGCNNNNNNNN!	9	884; 1326; 1501; 1669; 2954; 2996; 3517; 3970; 4470
Lsp1109I	!NNNNNNNNNNNGCTGC	8	1003; 1430; 2163; 2828; 3012; 3105; 4171; 4377
LweI	GCATCNNNNN!	8	911; 1028; 1697; 2460; 2532; 3180; 3244; 3519
LweI	!NNNNNNNNNGATGC	8	357; 1064; 1103; 1232; 2839; 3094; 3310; 4702
MabI	A!CCWGGT	1	2470
MaeI	C!TAG	10	592; 1352; 1505; 1536; 1730; 2148; 2704; 3719; 4053; 4306
MaeII	A!CGT	16	122; 134; 175; 258; 339; 444; 1031; 1307; 1941; 1953; 1996; 2106; 2997; 3184; 3965; 4098
MaeIII	!GTNAC	13	61; 148; 497; 1480; 1669; 2170; 2182; 3001; 3307; 3997; 4263; 4379; 4442
MalI	GA!TC	27	587; 611; 662; 691; 805; 1039; 1215; 1389; 1510; 1523; 1540; 2720; 2724; 2743; 3054; 3132; 3213; 3222; 3300; 3676; 3692; 4051; 4063; 4141; 4149; 4160; 4235
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2305; 3494
MbiI	GAG!CGG	3	1469; 2141; 3548
MboI	!GATC	27	585; 609; 660; 689; 803; 1037; 1213; 1387; 1508; 1521; 1538; 2718; 2722; 2741; 3052; 3130; 3211; 3220; 3298; 3674; 3690; 4049; 4061; 4139; 4147; 4158; 4233
MboII	GAAGANNNNNNNN!	8	813; 979; 1092; 2137; 2365; 3242; 3452; 4071
MboII	!NNNNNNNTCTTC	4	3532; 3699; 3899; 4142
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1631
MflI	R!GATCY	12	585; 609; 660; 1213; 1387; 3052; 3298; 3690; 4049; 4061; 4147; 4158
MhII	GDGCH!C	15	620; 657; 730; 757; 790; 1367; 1461; 2072; 2827; 2920; 2994; 3184; 3246; 3956; 4489
MisI	TGG!CCA	2	1333; 2963
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	1333; 2963
MlyI	GAGTCNNNNN!	2	1933; 2365
MlyI	!NNNNNGACTC	7	404; 598; 1376; 1526; 1940; 3546; 4423
Mly113I	GG!CGCC	1	2881
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	2	1085; 1974
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	4406; 4590
MnlI	CCTCNNNNNNN!	10	836; 1246; 1357; 1600; 2664; 3482; 3688; 4002; 4372; 4696

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MnII	!NNNNNNGAGG	21	541; 717; 756; 777; 810; 927; 1092; 1135; 1281; 1560; 2025; 2356; 2634; 2677; 2692; 2732; 2796; 2932; 3289; 3719; 4622
Mph1103I	ATGCA!T	3	2453; 2525; 4856
MreI	CG!CCGGCG	1	1413
MroI	T!CCGGA	1	1378
MroNI	G!CCGGC	4	1413; 2098; 3381; 3664
MroXI	GAANN!NN TTC	0	
MscI	TGG!CCA	2	1333; 2963
MseI	T!TAA	16	7; 917; 1582; 1643; 1764; 1785; 1796; 1808; 1819; 1836; 1934; 2205; 4024; 4038; 4043; 4095
MslI	CAYNN!NNRTG	5	365; 706; 1111; 1370; 3318
MspI	C!CGG	22	601; 657; 667; 1247; 1379; 1414; 2099; 2786; 2863; 2885; 2913; 3044; 3134; 3201; 3382; 3657; 3665; 3757; 4231; 4421; 4447; 4594
Msp20I	TGG!CCA	2	1333; 2963
MspA1I	CMG!CKG	6	651; 1126; 2379; 2987; 4216; 4461
MspCI	C!TTAAG	1	1763
MspJI	CNNRNNNNNNNN!	248	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; 696; 714; 732; 762; 780; 795; 810; 828; 861; 876; 904; 919; 943; 956; 972; 990; 1004; 1020; 1047; 1068; 1081; 1100; 1115; 1135; 1149; 1164; 1180; 1197; 1212; 1229; 1249; 1272; 1285; 1304; 1323; 1346; 1363; 1378; 1391; 1405; 1422; 1439; 1452; 1466; 1482; 1498; 1517; 1541; 1554; 1569; 1588; 1605; 1618; 1659; 1673; 1686; 1704; 1742; 1757; 1775; 1816; 1840; 1860; 1878; 1899; 1922; 1954; 1969; 1991; 2009; 2022; 2043; 2060; 2073; 2086; 2102; 2115; 2145; 2160; 2185; 2203; 2216; 2231; 2255; 2269; 2293; 2318; 2334; 2372; 2388; 2427; 2441; 2455; 2483; 2499; 2513; 2527; 2556; 2569; 2590; 2599; 2621; 2651; 2667; 2685; 2715; 2738; 2762; 2786; 2805; 2833; 2859; 2875; 2888; 2911; 2925; 2945; 2958; 2972; 2991; 3005; 3018; 3034; 3049; 3062; 3078; 3093; 3109; 3134; 3153; 3169; 3182; 3195; 3213; 3227; 3241; 3257; 3279; 3295; 3314; 3336; 3352; 3375; 3394; 3408; 3424; 3438; 3458; 3474; 3487; 3509; 3542; 3556; 3576; 3589; 3603; 3657; 3670; 3693; 3706; 3725; 3742; 3769; 3805; 3838; 3857; 3882; 3903; 3930; 3943; 3960; 3974; 3989; 4005; 4065; 4090; 4106; 4128; 4141; 4155; 4186; 4200; 4225; 4243; 4258; 4271; 4290; 4303; 4318; 4347; 4366; 4384; 4409; 4424; 4443; 4459; 4478; 4496; 4512; 4526; 4545; 4572; 4595; 4617; 4636; 4651; 4664; 4681; 4701; 4728; 4741; 4760; 4785; 4808; 4822; 4835; 4852
MspJI	!NNNNNNNNNNNNYNGG	204	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; 670; 688; 706; 736; 760; 778; 802; 821; 843; 883; 904; 930; 950; 979; 1021; 1055; 1074; 1096; 1123; 1147; 1171; 1204; 1225; 1244; 1270; 1292; 1315; 1338; 1364; 1383; 1400; 1426; 1447; 1472; 1491; 1510; 1533; 1562; 1591; 1633; 1716; 1751; 1778; 1801; 1830; 1874; 1896; 1928; 1964; 1981; 2002; 2039; 2059; 2076; 2093; 2128; 2146; 2164; 2181; 2205; 2227; 2254; 2282; 2308; 2346; 2367; 2384; 2402; 2425; 2446; 2474; 2497; 2518; 2536; 2557; 2574; 2597; 2621; 2641; 2659; 2681; 2712; 2734; 2760; 2779; 2796; 2824; 2843; 2862; 2880; 2898; 2919; 2941; 2965; 2998; 3018; 3036; 3057; 3083; 3110; 3127; 3144; 3161; 3187; 3209; 3231; 3249; 3269; 3288; 3310; 3348; 3368; 3392; 3412; 3432; 3459; 3483; 3516; 3535; 3563; 3585; 3614; 3642; 3667; 3686; 3705; 3726; 3743; 3760; 3791; 3818; 3838; 3861; 3881; 3918; 3935; 3954; 3980; 4000; 4039; 4066; 4085; 4103; 4140; 4158; 4199; 4217; 4243; 4260; 4292; 4321; 4349; 4370; 4393; 4412; 4433; 4451; 4468; 4486; 4512; 4533; 4553; 4573; 4591; 4612; 4638; 4655; 4674; 4693; 4722; 4741; 4759; 4778; 4796; 4814; 4837
MspR9I	CC!NGG	22	90; 283; 657; 658; 850; 898; 994; 1247; 1462; 2417; 2472; 2489; 2885; 3045; 3268; 3658; 3847; 3950; 4422; 4640; 4653; 4774
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	1631
MvaI	CC!WGG	15	90; 283; 850; 898; 994; 1462; 2417; 2472; 2489; 3268; 3847; 3950; 4640; 4653; 4774
Mva1269I	GAATGCN!	1	1632
Mva1269I	G!CATTC	1	1725

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MvnI	CG!CG	17	60; 651; 1091; 1530; 1805; 2181; 2201; 2225; 2256; 2947; 3248; 3686; 3770; 3833; 3902; 4175; 4756
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	29	90; 212; 244; 283; 376; 400; 711; 1142; 1423; 1495; 2108; 2138; 2165; 2207; 2448; 2520; 2571; 2650; 2872; 2956; 2979; 3118; 3241; 3324; 3591; 3778; 3982; 4181; 4753
NaeI	GCC!GGC	4	1415; 2100; 3383; 3666
NarI	GG!CGCC	1	2881
NciI	CC!SGG	7	657; 658; 1247; 2885; 3045; 3658; 4422
NcoI	C!CATGG	4	360; 1401; 2610; 3313
NdeI	CA!TATG	1	234
NdeII	!GATC	27	585; 609; 660; 689; 803; 1037; 1213; 1387; 1508; 1521; 1538; 2718; 2722; 2741; 3052; 3130; 3211; 3220; 3298; 3674; 3690; 4049; 4061; 4139; 4147; 4158; 4233
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	794
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	830
NgoAVIII	!NNNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	1413; 2098; 3381; 3664
NheI	G!CTAGC	1	591
NlaII	CATG!	24	304; 364; 681; 705; 711; 723; 801; 867; 947; 1405; 1452; 2311; 2451; 2523; 2614; 2755; 3100; 3286; 3317; 3343; 3699; 4083; 4803; 4854
NlaIV	GGN!NCC	19	467; 647; 655; 662; 729; 789; 2036; 2057; 2069; 2260; 2421; 2493; 2882; 2917; 3765; 3844; 3889; 4732; 4771
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	1713; 2028; 3620
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 1054; 4692
Nli3877I	CYCGR!G	2	617; 660
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	2670; 3106
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2635
NmeDI	RCCGGYNNNNNNN!	6	678; 1425; 2110; 3212; 3393; 3676
NmeDI	!NNNNNNNNNNNNRCCGGY	6	653; 1400; 2085; 3187; 3368; 3651
NmuCI	!GTSAC	4	1480; 2170; 3001; 3307
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2983
NsiI	ATGCA!T	3	2453; 2525; 4856
NspI	RCATG!Y	5	705; 2451; 2523; 3286; 4803
NspV	TT!CGAA	2	627; 3563
OliI	CACNN!NNGTG	0	
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 648; 719; 869; 1121; 1340; 3188
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2451; 2523; 3286
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	2307; 4079
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	897; 3846; 3949
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2702
PciI	A!CATGT	1	4799
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3225; 3435
PcsI	WCGNNNN!NNNCGW	7	1316; 3175; 3252; 3495; 3569; 3962; 4480
PctI	GAATGCN!	1	1632
PctI	G!CATTC	1	1725
PdiI	GCC!GGC	4	1415; 2100; 3383; 3666
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	9	953; 1280; 1375; 1394; 3366; 3500; 3610; 3647; 4825
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2999
PfIMI	CCANNNN!NTGG	2	1260; 1272
PfoI	T!CCNGGA	1	3656
PhoI	GG!CC	29	84; 277; 655; 824; 1067; 1102; 1136; 1145; 1159; 1291; 1333; 1527; 1847; 1989; 2644; 2650; 2659; 2702; 2789; 2963; 3354; 3381; 3890; 3947; 3980; 4325; 4759; 4777; 4788

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	1	3262
PlaDI	!NNNNNNNNNNNNNNNNNNNNNNCTGATG	2	2827; 3082
PleI	GAGTCNNNN!	2	1932; 2364
PleI	!NNNNNGACTC	7	404; 598; 1376; 1526; 1940; 3546; 4423
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	1963
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	4093
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	1	4125
PpiI	!NNNNNNNGAACNNNNNCTC	1	1931
PpsI	GAGTCNNNN!	2	1932; 2364
PpsI	!NNNNNGACTC	7	404; 598; 1376; 1526; 1940; 3546; 4423
Ppu10I	A!TGCAT	3	2449; 2521; 4852
Ppu21I	YAC!GTR	3	340; 1997; 3185
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4799
PshAI	GACNN!NNGTC	1	1306
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	1664; 1869
Psp03I	GGWC!C	4	1266; 1479; 3400; 3845
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	15	88; 281; 848; 896; 992; 1460; 2415; 2470; 2487; 3266; 3845; 3948; 4638; 4651; 4772
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	15	88; 281; 848; 896; 992; 1460; 2415; 2470; 2487; 3266; 3845; 3948; 4638; 4651; 4772
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	19	467; 647; 655; 662; 729; 789; 2036; 2057; 2069; 2260; 2421; 2493; 2882; 2917; 3765; 3844; 3889; 4732; 4771
PspOMI	G!GGCCC	1	653
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	125; 2611; 3610
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3013
PspPI	G!GNCC	14	83; 276; 654; 823; 1066; 1158; 1263; 1476; 1988; 3397; 3842; 3888; 3946; 3979
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNNNNNN!	3	2434; 2506; 4012
PspPRI	!NNNNNNNNNNNNNNNNNNCTGRGG	4	918; 1346; 2347; 3542
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNTACNNNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNTAC	0	
PssI	RGNC!CY	1	3982
PstI	CTGCA!G	2	638; 1491
PstNI	CAGNNN!CTG	2	3982; 4390
PsuI	R!GATCY	12	585; 609; 660; 1213; 1387; 3052; 3298; 3690; 4049; 4061; 4147; 4158
PsyI	GACN!NNGTC	1	2999
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2379; 2987
RcaI	T!CATGA	2	2307; 4079
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	3396
RceI	!NNNNNNNNNNNNNNNNNNNGTTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNNNNNNNN!	1	1610
RleAI	!NNNNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 647; 718; 868; 1120; 1339; 3187
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 646; 717; 867; 1119; 1338; 3186
RseI	CAYNN!NNRTG	5	365; 706; 1111; 1370; 3318
RsrII	CG!GWCCG	1	3397
Rsr2I	CG!GWCCG	1	3397
SacI	GAGCT!C	1	620
SacII	CCGC!GG	1	652
SalI	G!TCGAC	1	639
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	3225; 3435
SaqAI	T!TAA	16	7; 917; 1582; 1643; 1764; 1785; 1796; 1808; 1819; 1836; 1934; 2205; 4024; 4038; 4043; 4095
SatI	GC!NGC	38	822; 873; 1017; 1092; 1134; 1315; 1424; 1444; 1490; 1528; 1658; 2177; 2199; 2213; 2651; 2790; 2842; 2853; 2943; 2948; 2985; 3026; 3113; 3116; 3119; 3355; 3451; 3492; 3506; 3620; 3959; 3974; 4185; 4391; 4394; 4459; 4602; 4757
Sau96I	G!GNCC	14	83; 276; 654; 823; 1066; 1158; 1263; 1476; 1988; 3397; 3842; 3888; 3946; 3979
Sau3AI	!GATC	27	585; 609; 660; 689; 803; 1037; 1213; 1387; 1508; 1521; 1538; 2718; 2722; 2741; 3052; 3130; 3211; 3220; 3298; 3674; 3690; 4049; 4061; 4139; 4147; 4158; 4233
Sbfi	CCTGCA!GG	0	
ScaI	AGT!ACT	1	1339
SchI	GAGTCNNNNN!	2	1933; 2365
SchI	!NNNNNGACTC	7	404; 598; 1376; 1526; 1940; 3546; 4423
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	22	90; 283; 657; 658; 850; 898; 994; 1247; 1462; 2417; 2472; 2489; 2885; 3045; 3268; 3658; 3847; 3950; 4422; 4640; 4653; 4774
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	6	1104; 1488; 2459; 2531; 2700; 4642
SdeAI	!NNNNNNNNNNNNNNNNNNNCTYCTG	3	1479; 3036; 3521
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	15	620; 657; 730; 757; 790; 1367; 1461; 2072; 2827; 2920; 2994; 3184; 3246; 3956; 4489
SeI	!CGCG	17	58; 649; 1089; 1528; 1803; 2179; 2199; 2223; 2254; 2945; 3246; 3684; 3768; 3831; 3900; 4173; 4754
SetI	ASST!	63	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 689; 716; 812; 862; 1006; 1034; 1169; 1187; 1238; 1306; 1310; 1349; 1571; 1592; 1601; 1613; 1662; 1829; 1944; 1956; 1999; 2036; 2086; 2109; 2233; 2381; 2476; 2669; 2782; 2910; 2989; 3000; 3072; 3143; 3187; 3447; 3593; 3637; 3968; 3999; 4058; 4101; 4244; 4265; 4364; 4501; 4516; 4535; 4547; 4591; 4637; 4688
SexAI	A!CCWGGT	1	2470
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	911; 1028; 1697; 2460; 2532; 3180; 3244; 3519
SfaNI	!NNNNNNNNNGATGC	8	357; 1064; 1103; 1232; 2839; 3094; 3310; 4702
Sfcl	C!TRYAG	5	634; 1487; 2216; 4343; 4534
SfiI	GGCCNNNN!NGGCC	2	1142; 2656
SfoI	GGC!GCC	1	2882
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	1	652
SfuI	TT!CGAA	2	627; 3563

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	194	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 696; 714; 732; 762; 786; 804; 819; 861; 876; 909; 943; 956; 984; 1005; 1020; 1047; 1081; 1100; 1122; 1135; 1149; 1164; 1180; 1197; 1212; 1230; 1251; 1272; 1285; 1323; 1347; 1364; 1391; 1414; 1441; 1461; 1474; 1498; 1517; 1541; 1588; 1617; 1659; 1742; 1816; 1900; 1922; 1954; 1991; 2009; 2028; 2043; 2085; 2102; 2119; 2154; 2168; 2185; 2207; 2231; 2255; 2320; 2334; 2372; 2388; 2428; 2441; 2460; 2483; 2500; 2513; 2532; 2562; 2583; 2600; 2623; 2658; 2685; 2716; 2738; 2764; 2786; 2805; 2833; 2869; 2888; 2911; 2925; 2945; 2958; 2972; 2991; 3005; 3024; 3056; 3070; 3083; 3109; 3140; 3153; 3170; 3187; 3201; 3218; 3236; 3251; 3279; 3295; 3314; 3336; 3352; 3375; 3394; 3419; 3438; 3458; 3485; 3509; 3542; 3561; 3589; 3603; 3669; 3693; 3708; 3731; 3752; 3769; 3817; 3844; 3858; 3887; 3911; 3944; 3961; 3981; 3994; 4007; 4065; 4092; 4111; 4141; 4166; 4186; 4200; 4225; 4243; 4280; 4318; 4347; 4375; 4389; 4409; 4424; 4445; 4459; 4478; 4496; 4512; 4552; 4572; 4599; 4617; 4638; 4651; 4664; 4681; 4705; 4728; 4760; 4785; 4812; 4834
SgeI	!NNNNNNNNNNNNCNG	169	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 670; 688; 706; 736; 760; 778; 802; 835; 883; 917; 958; 979; 1021; 1055; 1074; 1096; 1123; 1147; 1171; 1204; 1225; 1246; 1270; 1297; 1321; 1338; 1365; 1388; 1415; 1435; 1456; 1479; 1515; 1562; 1591; 1633; 1716; 1790; 1874; 1896; 1928; 1965; 1983; 2002; 2059; 2076; 2093; 2128; 2146; 2166; 2186; 2205; 2229; 2294; 2346; 2402; 2434; 2457; 2474; 2506; 2536; 2557; 2574; 2597; 2632; 2659; 2690; 2712; 2738; 2760; 2779; 2807; 2843; 2862; 2885; 2906; 2924; 2941; 2965; 2998; 3030; 3057; 3083; 3114; 3144; 3161; 3187; 3210; 3231; 3253; 3273; 3293; 3310; 3349; 3368; 3393; 3412; 3432; 3459; 3483; 3516; 3535; 3563; 3585; 3643; 3667; 3686; 3705; 3726; 3743; 3791; 3818; 3838; 3861; 3885; 3918; 3935; 3955; 3981; 4039; 4066; 4085; 4115; 4140; 4160; 4199; 4217; 4254; 4292; 4321; 4349; 4370; 4398; 4419; 4452; 4470; 4526; 4546; 4573; 4591; 4612; 4638; 4655; 4679; 4702; 4734; 4759; 4786; 4808; 4837
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	1	1413
SgrBI	CCGC!GG	1	652
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2028; 3815; 4608
SimI	!GACCC	4	106; 3309; 3877; 4125
SinI	G!GWCC	4	1263; 1476; 3397; 3842
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 706; 1111; 1370; 3318
SmlI	C!TYRAG	8	613; 619; 1237; 1763; 3272; 4154; 4431; 4693
SmoI	C!TYRAG	8	613; 619; 1237; 1763; 3272; 4154; 4431; 4693
SmuI	CCCGCNNNN!	11	93; 119; 286; 1131; 1233; 1418; 2203; 2558; 2579; 3775; 3907
SmuI	!NNNNNNGCGGG	8	644; 1168; 1462; 2134; 3004; 3541; 3679; 3826
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2451; 2523; 3286
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 629; 1631; 1695; 1773; 1799; 1810; 2457; 2529; 2621; 4039
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	2702
SsiI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 649; 986; 1124; 1226; 1411; 1528; 2196; 2199; 2213; 2303; 2551; 2563; 2572; 2584; 2594; 2605; 2651; 2790; 2853; 3355; 3400; 3466; 3492; 3617; 3620; 3768; 3900; 4207; 4351; 4847
SsiI	G!CGG	31	370; 403; 528; 651; 821; 1091; 1133; 1175; 1417; 1423; 1469; 2141; 2168; 2256; 2366; 2947; 3011; 3112; 3115; 3395; 3450; 3548; 3686; 3833; 3973; 4216; 4461; 4582; 4601; 4728; 4756
SspI	AAT!ATT	2	1789; 2342
SspDI	G!GCGCC	1	2880
SspD5I	GGTGANNNNNNNN!	4	376; 1059; 3952; 4068

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SspD5I	!NNNNNNNNTCACC	4	947; 1473; 1997; 3058
SstI	GAGCT!C	1	620
SstII	CCGC!GG	1	652
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	1	992
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	21	92; 118; 285; 663; 914; 1130; 1232; 1253; 1417; 2080; 2202; 2557; 2578; 2891; 3294; 3433; 3504; 3774; 3906; 4136; 4574
Sth132I	!NNNNNNNNCCGGG	23	15; 407; 470; 643; 963; 1035; 1167; 1461; 2081; 2133; 2234; 2961; 3003; 3036; 3540; 3649; 3678; 3825; 3929; 3960; 4413; 4457; 4665
Sth302II	CC!GG	22	602; 658; 668; 1248; 1380; 1415; 2100; 2787; 2864; 2886; 2914; 3045; 3135; 3202; 3383; 3658; 3666; 3758; 4232; 4422; 4448; 4595
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	6	1445; 1486; 2749; 3206; 3231; 3685
StsI	!NNNNNNNNNNNNNNNCATCC	5	743; 831; 888; 1043; 2553
StuI	AGG!CCT	1	2702
StyI	C!CWWGG	6	360; 1401; 2610; 2703; 3313; 3718
StyD4I	!CCNGG	22	88; 281; 655; 656; 848; 896; 992; 1245; 1460; 2415; 2470; 2487; 2883; 3043; 3266; 3656; 3845; 3948; 4420; 4638; 4651; 4772
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 645; 732; 1480; 1972; 3261; 3377; 3485; 3808; 4299; 4769; 4840
TaiI	ACGT!	16	125; 137; 178; 261; 342; 447; 1034; 1310; 1944; 1956; 1999; 2109; 3000; 3187; 3968; 4101
TaqI	T!CGA	18	614; 627; 640; 815; 842; 1310; 1392; 2030; 2721; 2994; 3150; 3174; 3210; 3372; 3563; 3608; 3863; 4701
TaqII	GACCGANNNNNNNNNN!	3	1901; 2918; 3586
TaqII	!NNNNNNNNNTCGGTC	1	3830
TaqII	CACCCANNNNNNNNNN!	2	805; 910
TaqII	!NNNNNNNNNTGGGTG	3	172; 2785; 3377
TasI	!AATT	11	18; 629; 1631; 1695; 1773; 1799; 1810; 2457; 2529; 2621; 4039
TatI	W!GTACW	6	217; 297; 330; 381; 716; 1337
TauI	GCSG!C	20	824; 1094; 1136; 1426; 1530; 2201; 2215; 2653; 2792; 2855; 2950; 3115; 3118; 3357; 3453; 3494; 3622; 3976; 4604; 4759
TfiI	G!AWTC	9	953; 1280; 1375; 1394; 3366; 3500; 3610; 3647; 4825
TliI	C!TCGAG	1	613
TruII	T!TAA	16	7; 917; 1582; 1643; 1764; 1785; 1796; 1808; 1819; 1836; 1934; 2205; 4024; 4038; 4043; 4095
Tru9I	T!TAA	16	7; 917; 1582; 1643; 1764; 1785; 1796; 1808; 1819; 1836; 1934; 2205; 4024; 4038; 4043; 4095
TscAI	CASTGNN!	6	1195; 1727; 3010; 4120; 4391; 4404
TseI	G!CWGC	18	872; 1016; 1314; 1443; 1489; 1657; 2176; 2841; 2942; 2984; 3025; 3118; 3505; 3958; 4184; 4390; 4393; 4458
TsoI	TARCCANNNNNNNNNN!	2	1853; 2200
TsoI	!NNNNNNNNNTGGYTA	3	841; 1658; 3410
Tsp45I	!GTSAC	4	1480; 2170; 3001; 3307
Tsp509I	!AATT	11	18; 629; 1631; 1695; 1773; 1799; 1810; 2457; 2529; 2621; 4039
TspDTI	ATGAANNNNNNNNNN!	6	724; 814; 1388; 1639; 2940; 3644
TspDTI	!NNNNNNNNNTTCAT	6	26; 852; 873; 3358; 3814; 4021
TspEI	!AATT	11	18; 629; 1631; 1695; 1773; 1799; 1810; 2457; 2529; 2621; 4039
TspGWI	ACGGANNNNNNNNNN!	1	3756
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	6	1195; 1727; 3010; 4120; 4391; 4404
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2999
Tth111II	CAARCANNNNNNNNNN!	1	4208
Tth111II	!NNNNNNNNNTGYTTG	3	3316; 4176; 4215
UnbI	!GGNCC	14	82; 275; 653; 822; 1065; 1157; 1262; 1475; 1987; 3396; 3841; 3887; 3945; 3978
Van9II	CCANNNN!NTGG	2	1260; 1272
Vha464I	C!TTAAG	1	1763

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
VneI	G!TGCAC	2	753; 4485
VpaK11AI	!GGWCC	4	1262; 1475; 3396; 3841
VpaK11BI	G!GWCC	4	1263; 1476; 3397; 3842
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	629; 1695; 1799; 1810
XbaI	T!CTAGA	1	1535
XceI	RCATG!Y	5	705; 2451; 2523; 3286; 4803
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	12	585; 609; 660; 1213; 1387; 3052; 3298; 3690; 4049; 4061; 4147; 4158
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	2703; 3718
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	10	592; 1352; 1505; 1536; 1730; 2148; 2704; 3719; 4053; 4306
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	1	1339
Zsp2I	ATGCA!T	3	2453; 2525; 4856