

pCasper3-GR vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2274; 2479
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2562; 3518; 5307
AatI	AGG!CCT	1	3312
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	3	640; 1256; 1397
AccII	CG!CG	20	60; 651; 1429; 1505; 1742; 2060; 2140; 2415; 2791; 2811; 2835; 2866; 3557; 3858; 4296; 4380; 4443; 4512; 4785; 5366
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	3593
Acc36I	ACCTGCNNNN!	2	3759; 4209
Acc36I	!NNNNNNNNGCAGGT	1	3378
Acc65I	G!GTACC	2	645; 1402
AccB1I	G!GYRCC	8	465; 645; 730; 790; 1402; 2644; 3490; 3525
AccB7I	CCANNNN!NTGG	3	1275; 1836; 2112
AccBSI	CCG!CTC	2	2915; 4104
AccBSI	GAG!CGG	3	2134; 2751; 4158
AceIII	CAGCTCNNNNNNN!	1	2447
AceIII	!NNNNNNNNNNGAGCTG	6	552; 676; 1420; 1453; 1774; 2107
AciI	C!CGC	44	58; 86; 98; 112; 279; 507; 589; 649; 989; 1127; 1229; 1632; 1740; 1779; 1917; 2030; 2046; 2058; 2127; 2138; 2806; 2809; 2823; 2913; 3161; 3173; 3182; 3194; 3204; 3215; 3261; 3400; 3463; 3965; 4010; 4076; 4102; 4227; 4230; 4378; 4510; 4817; 4961; 5457
AciI	G!CGG	35	370; 403; 528; 651; 824; 1136; 1178; 1385; 1424; 1429; 1505; 1742; 1934; 1937; 2134; 2751; 2778; 2866; 2976; 3557; 3621; 3722; 3725; 4005; 4060; 4158; 4296; 4443; 4583; 4826; 5071; 5192; 5211; 5338; 5366
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	8	668; 3359; 3670; 3916; 4308; 4667; 4765; 4851
AcIWI	!NNNNNGATCC	8	580; 655; 1211; 1992; 3735; 4279; 4666; 4763
AcoI	Y!GGCCR	8	1334; 1485; 1949; 2135; 3397; 3571; 3962; 3989
AcsI	R!AATTY	4	629; 2305; 2409; 2420
AcuI	CTGAAGNNNNNNNNNNNNNNN!	4	1186; 1810; 3637; 4069
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	2070; 4867
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 1253; 1523; 3491; 4193; 4272
AdeI	CACNNN!GTG	4	1326; 1863; 2070; 2607
AfaI	GT!AC	16	219; 244; 299; 332; 383; 540; 647; 721; 871; 1123; 1404; 1732; 1843; 1867; 2125; 3797
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	28	49; 787; 900; 1066; 1132; 1275; 1583; 1716; 1746; 1836; 2052; 2112; 2133; 2503; 2829; 3221; 3472; 4016; 4297; 4329; 4461; 4496; 4546; 4578; 4931; 5210; 5376; 5394
AfiiI	C!TTAAG	1	2373
AfiIII	A!CRYGT	2	1862; 5409
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	11	753; 1203; 1668; 1806; 1851; 1911; 2902; 2946; 2956; 3369; 4945
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	1479

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Ajnl	!CCWGG	25	88; 281; 851; 899; 995; 1010; 1139; 1582; 1592; 1694; 1715; 1769; 1823; 1895; 1976; 2075; 3025; 3080; 3097; 3876; 4455; 4558; 5248; 5261; 5382
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	3	679; 1594; 1771
AlfI	GCANNNNNNTGCNNNNNNNNNN!	2	3065; 3137
AlfI	!NNNNNNNNNGCANNNNNNNTGC	2	3031; 3103
AloI	GAACNNNNNNNTCCNNNNNNNNNN!	2	1077; 2573
AloI	!NNNNNNNGGANNNNNNGTTC	1	1534
AloI	GGANNNNNNGTTCNNNNNNNNNN!	1	1566
AloI	!NNNNNNNGAACNNNNNNNTCC	2	1045; 2541
AluI	AG!CT	27	566; 618; 624; 690; 717; 863; 1170; 1434; 1467; 1539; 1572; 1788; 1836; 1847; 1947; 2121; 2270; 2437; 2694; 2989; 3277; 3597; 4055; 4852; 5109; 5155; 5245
AluBI	AG!CT	27	566; 618; 624; 690; 717; 863; 1170; 1434; 1467; 1539; 1572; 1788; 1836; 1847; 1947; 2121; 2270; 2437; 2694; 2989; 3277; 3597; 4055; 4852; 5109; 5155; 5245
AlwI	GGATCNNNN!	8	668; 3359; 3670; 3916; 4308; 4667; 4765; 4851
AlwI	!NNNNNGATCC	8	580; 655; 1211; 1992; 3735; 4279; 4666; 4763
Alw21I	GWGCW!C	9	620; 760; 1484; 1646; 2023; 2075; 3604; 3794; 5099
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1297; 2915; 3333; 4352; 4480
Alw44I	G!TGCAC	3	756; 1480; 5095
AlwNI	CAGNNN!CTG	4	1343; 2093; 4592; 5000
Ama87I	C!YCGRG	4	613; 656; 1639; 1681
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNNN!TGC	4	1623; 3059; 3131; 4593
ApaLI	G!TGCAC	3	756; 1480; 5095
ApeKI	G!CWGC	19	875; 1019; 1317; 1572; 1944; 2096; 2267; 2786; 3451; 3552; 3594; 3635; 3728; 4115; 4568; 4794; 5000; 5003; 5068
ApoI	R!AATTY	4	629; 2305; 2409; 2420
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4006
ApyPI	!NNNNNNNNNNNNNNNNNGTTCGAT	3	3800; 4453; 5291
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	3890
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	851
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	2	1398; 3319
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTTCCYC	1	4061
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	26	586; 610; 661; 1041; 1191; 1217; 1461; 1545; 1998; 2149; 3329; 3333; 3352; 3663; 3741; 3822; 3831; 3909; 4285; 4301; 4660; 4672; 4750; 4758; 4769; 4844
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	2	1393; 3609
Asp700I	GAANN!NNTTC	1	1660
Asp718I	G!GTACC	2	645; 1402
AspA2I	C!CTAGG	2	3313; 4328
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	26	597; 1429; 1505; 1675; 1703; 2092; 2757; 2765; 2791; 2813; 2822; 2835; 2866; 3485; 3493; 3557; 3594; 3860; 4120; 4296; 4382; 4785; 4894; 5068; 5168; 5235
AspS9I	G!GNCC	19	83; 276; 654; 826; 1069; 1161; 1182; 1266; 1586; 1827; 1987; 2043; 2055; 2598; 4007; 4452; 4498; 4556; 4589
AssI	AGT!ACT	0	

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AsuI	TT!CGAA	2	627; 4173
AsuC2I	CC!SGG	7	657; 658; 1250; 3495; 3655; 4268; 5032
AsuHPI	GGTGANNNNNNNN!	10	376; 693; 1062; 1399; 1608; 1761; 1785; 1914; 4562; 4678
AsuHPI	!NNNNNNNTCACC	3	951; 2608; 3669
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	613; 656; 1639; 1681
AvaII	G!GWCC	4	1266; 2043; 4007; 4452
AviII	TGC!GCA	1	3593
AvrII	C!CTAGG	2	3313; 4328
AxyI	CC!TNAGG	3	935; 2971; 4603
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	1	1394
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	1	1427
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	12	657; 733; 760; 793; 1370; 1454; 1484; 1583; 1976; 3437; 3530; 5099
BalI	TGG!CCA	2	1336; 3573
BamHI	G!GATCC	1	660
BanI	G!GYRCC	8	465; 645; 730; 790; 1402; 2644; 3490; 3525
BanII	GRGCY!C	5	620; 657; 2682; 3856; 4566
BanIII	AT!CGAT	1	3331
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNCTTC	0	
BarI	GTANNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	3	1275; 1836; 2112
BauI	C!ACGAG	3	1321; 4209; 5236
BauI	C!TCGTG	2	1171; 4083
BbeI	GGCG!C	1	3494
Bbr7I	GAAGACNNNNNN!	1	982
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	977
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	3061; 3133; 3896
BbvI	GCAGCNNNNNNNN!	9	887; 1329; 1956; 2279; 3564; 3606; 4127; 4580; 5080
BbvI	!NNNNNNNNNNNGCTGC	9	1006; 1559; 2083; 2773; 3438; 3622; 3715; 4781; 4987
Bbv12I	GWGCW!C	9	620; 760; 1484; 1646; 2023; 2075; 3604; 3794; 5099
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	8	1068; 1714; 2011; 2041; 2621; 3185; 3711; 4213
BccI	!NNNNNGATGG	3	2589; 3369; 3797
BceAI	ACGGCNNNNNNNNNN!	14	888; 1032; 1083; 1149; 1488; 1548; 1629; 1740; 1830; 1908; 2001; 2124; 3917; 4404
BceAI	!NNNNNNNNNNNGCCGT	3	2632; 3450; 4909
Bcefl	ACGGCNNNNNNNNNN!	14	888; 1032; 1083; 1149; 1488; 1548; 1629; 1740; 1830; 1908; 2001; 2124; 3917; 4404
Bcefl	!NNNNNNNNNNNGCCGT	3	2633; 3451; 4910
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNTGC	0	
BciVI	GATCCNNNNNN!	3	2920; 3710; 5211
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	7	657; 658; 1250; 3495; 3655; 4268; 5032
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNN!	2	2020; 5344
BdaI	!NNNNNNNNNTGANNNNNNTCA	2	1986; 5310
BfaI	C!TAG	9	592; 1355; 2146; 2340; 2758; 3314; 4329; 4663; 4916
BfiI	ACTGGGNNNN!	2	1372; 3440
BfiI	!NNNCCCAGT	2	289; 3192
BfmI	C!TRYAG	4	634; 2826; 4953; 5144
BfoI	RGCG!Y	7	598; 1676; 2093; 2758; 2766; 3494; 5169
BfrI	C!TTAAG	1	2373

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BfuI	GTATCCNNNNNN!	3	2920; 3710; 5211
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3759; 4209
BfuAI	!NNNNNNNNNGCAGGT	1	3378
BfuCI	!GATC	26	585; 609; 660; 1040; 1190; 1216; 1460; 1544; 1997; 2148; 3328; 3332; 3351; 3662; 3740; 3821; 3830; 3908; 4284; 4300; 4659; 4671; 4749; 4757; 4768; 4843
BglI	GCCNNNN!NGGC	5	90; 212; 283; 1145; 3266
BglII	A!GATCT	1	609
BisI	GC!NGC	43	825; 876; 1020; 1137; 1318; 1425; 1506; 1573; 1743; 1935; 1938; 1945; 2097; 2135; 2138; 2268; 2787; 2809; 2823; 3261; 3400; 3452; 3463; 3553; 3558; 3595; 3636; 3723; 3726; 3729; 3965; 4061; 4102; 4116; 4230; 4569; 4584; 4795; 5001; 5004; 5069; 5212; 5367
BlnI	C!CTAGG	2	3313; 4328
BlpI	GC!TNAGC	1	2130
BlsI	GCN!GC	43	826; 877; 1021; 1138; 1319; 1426; 1507; 1574; 1744; 1936; 1939; 1946; 2098; 2136; 2139; 2269; 2788; 2810; 2824; 3262; 3401; 3453; 3464; 3554; 3559; 3596; 3637; 3724; 3727; 3730; 3966; 4062; 4103; 4117; 4231; 4570; 4585; 4796; 5002; 5005; 5070; 5213; 5368
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	4	1266; 2043; 4007; 4452
Bme1390I	CC!NGG	32	90; 283; 657; 658; 853; 901; 997; 1012; 1141; 1250; 1584; 1594; 1696; 1717; 1771; 1825; 1897; 1978; 2077; 3027; 3082; 3099; 3495; 3655; 3878; 4268; 4457; 4560; 5032; 5250; 5263; 5384
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	613; 656; 1639; 1681
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	1479
BmgT120I	GG!NCC	19	84; 277; 655; 827; 1070; 1162; 1183; 1267; 1587; 1828; 1988; 2044; 2056; 2599; 4008; 4453; 4499; 4557; 4590
BmiI	GGN!NCC	22	467; 647; 655; 662; 732; 792; 1183; 1404; 1989; 2646; 2667; 2679; 2870; 3031; 3103; 3492; 3527; 4375; 4454; 4499; 5342; 5381
BmrI	ACTGGGNNNNN!	2	1372; 3440
BmrI	!NNNNCCCAGT	2	289; 3192
BmrFI	CC!NGG	32	90; 283; 657; 658; 853; 901; 997; 1012; 1141; 1250; 1584; 1594; 1696; 1717; 1771; 1825; 1897; 1978; 2077; 3027; 3082; 3099; 3495; 3655; 3878; 4268; 4457; 4560; 5032; 5250; 5263; 5384
BmsI	GCATCNNNNN!	10	914; 1454; 1625; 1790; 2307; 3070; 3142; 3790; 3854; 4129
BmsI	!NNNNNNNNNGATGC	8	357; 1067; 1106; 1235; 3449; 3704; 3920; 5312
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1372; 3440
BmuI	!NNNNCCCAGT	2	289; 3192
BoxI	GACNN!NNGTC	1	1309
BpiI	GAAGACNN!	1	977
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3280; 4179
BpI	!NNNNNNNNNGAGNNNNNCTC	2	3248; 4147
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	5	1561; 1858; 1918; 2098; 4331
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	994; 4274
Bpu10I	CC!TNAGC	1	2017
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 4173
Bpu1102I	GC!TNAGC	1	2130
BpuAI	GAAGACNN!	1	977
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4785; 5324
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	4	604; 1225; 3867; 5026
BpuMI	CC!SGG	7	657; 658; 1250; 3495; 3655; 4268; 5032
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	1297; 4480
Bsa29I	AT!CGAT	1	3331

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BsaAI	YAC!GTR	3	340; 2607; 3795
BsaBI	GATNN!NNATC	3	2002; 2153; 3350
BsaHI	GR!CGYC	9	122; 175; 258; 444; 1253; 1523; 3491; 4193; 4272
BsaJI	C!CNNGG	31	360; 649; 656; 677; 764; 899; 900; 995; 1582; 1592; 1682; 1740; 1769; 1824; 1976; 1977; 2106; 3025; 3097; 3220; 3255; 3264; 3313; 3654; 3923; 4328; 4455; 4456; 4558; 4559; 5249
BsaMI	GAATGCN!	1	2242
BsaMI	G!CATTC	1	2335
BsaWI	W!CCGGW	7	600; 666; 1417; 3522; 4366; 5056; 5203
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2571
BsaXI	!NNNNNNNGGAGNNNNNGT	1	1534
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	1564
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2541
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	1	1133
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	2492; 4399
Bsc4I	CCNNNNN!NNGG	28	49; 787; 900; 1066; 1132; 1275; 1583; 1716; 1746; 1836; 2052; 2112; 2133; 2503; 2829; 3221; 3472; 4016; 4297; 4329; 4461; 4496; 4546; 4578; 4931; 5210; 5376; 5394
BscAI	GCATCNNNN!	10	913; 1453; 1624; 1789; 2306; 3069; 3141; 3789; 3853; 4128
BscAI	!NNNNNGATGC	8	360; 1070; 1109; 1238; 3452; 3707; 3923; 5315
BseI	ACTGGN!	5	1280; 1367; 3435; 3636; 4882
BseI	C!CAGT	6	295; 1620; 2520; 3198; 4994; 5007
Bse8I	GATNN!NNATC	3	2002; 2153; 3350
Bse2II	CC!TNAGG	3	935; 2971; 4603
Bse118I	R!CCGGY	7	666; 1441; 1564; 2708; 3810; 3991; 4274
BseAI	T!CCGGA	0	
BseBI	CC!WGG	25	90; 283; 853; 901; 997; 1012; 1141; 1584; 1594; 1696; 1717; 1771; 1825; 1897; 1978; 2077; 3027; 3082; 3099; 3878; 4457; 4560; 5250; 5263; 5384
BseCI	AT!CGAT	1	3331
BseDI	C!CNNGG	31	360; 649; 656; 677; 764; 899; 900; 995; 1582; 1592; 1682; 1740; 1769; 1824; 1976; 1977; 2106; 3025; 3097; 3220; 3255; 3264; 3313; 3654; 3923; 4328; 4455; 4456; 4558; 4559; 5249
Bse3DI	GCAATGNN!	1	3724
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	3351; 3808; 3833; 4287
BseGI	!CATCC	9	760; 848; 905; 1060; 1616; 1691; 1706; 1820; 3177
BseJI	GATNN!NNATC	3	2002; 2153; 3350
BseLI	CCNNNNN!NNGG	28	49; 787; 900; 1066; 1132; 1275; 1583; 1716; 1746; 1836; 2052; 2112; 2133; 2503; 2829; 3221; 3472; 4016; 4297; 4329; 4461; 4496; 4546; 4578; 4931; 5210; 5376; 5394
BseMI	GCAATGNN!	1	3724
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	4	620; 1421; 2038; 4617
BseMII	!NNNNNNNNCTGAG	8	926; 2008; 2121; 2962; 3264; 4145; 4717; 5126
BseNI	ACTGGN!	5	1280; 1367; 3435; 3636; 4882
BseNI	C!CAGT	6	295; 1620; 2520; 3198; 4994; 5007
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	1388; 3309
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	12	657; 733; 760; 793; 1370; 1454; 1484; 1583; 1976; 3437; 3530; 5099
BseXI	GCAGCNNNNNNNN!	9	887; 1329; 1956; 2279; 3564; 3606; 4127; 4580; 5080
BseXI	!NNNNNNNNNNNGCTGC	9	1006; 1559; 2083; 2773; 3438; 3622; 3715; 4781; 4987
BseX3I	C!GGCCG	2	2135; 3397
BseYI	C!CCAGC	3	3034; 3106; 5105
BseYI	G!CTGGG	2	1097; 3995
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1963
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	1542
Bsh1236I	CG!CG	20	60; 651; 1429; 1505; 1742; 2060; 2140; 2415; 2791; 2811; 2835; 2866; 3557; 3858; 4296; 4380; 4443; 4512; 4785; 5366
Bsh1285I	CGRY!CG	4	671; 2138; 3400; 5075
BshFI	GG!CC	37	84; 277; 655; 827; 1070; 1105; 1139; 1162; 1184; 1294; 1336; 1487; 1587; 1829; 1885; 1895; 1951; 1988; 2056; 2137; 2457; 2599; 3254; 3260; 3269; 3312; 3399; 3573; 3964; 3991; 4500; 4557; 4590; 4935; 5369; 5387; 5398
BshNI	G!GYRCC	8	465; 645; 730; 790; 1402; 2644; 3490; 3525

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BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	3331
BsiEI	CGRY!CG	4	671; 2138; 3400; 5075
BsiHKAI	GWGCW!C	9	620; 760; 1484; 1646; 2023; 2075; 3604; 3794; 5099
BsiHKCI	C!YCGRG	4	613; 656; 1639; 1681
BsiSI	C!CGG	23	601; 657; 667; 1250; 1418; 1442; 1565; 2709; 3396; 3473; 3495; 3523; 3654; 3744; 3811; 3992; 4267; 4275; 4367; 4841; 5031; 5057; 5204
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	28	49; 787; 900; 1066; 1132; 1275; 1583; 1716; 1746; 1836; 2052; 2112; 2133; 2503; 2829; 3221; 3472; 4016; 4297; 4329; 4461; 4496; 4546; 4578; 4931; 5210; 5376; 5394
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3642; 4174; 4283
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3007; 3079; 3143; 4438
BsmI	GAATGCN!	1	2242
BsmI	G!CATTC	1	2335
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	5	1297; 2915; 3333; 4352; 4480
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3642; 4174; 4283
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3007; 3079; 3143; 4438
BsnI	GG!CC	37	84; 277; 655; 827; 1070; 1105; 1139; 1162; 1184; 1294; 1336; 1487; 1587; 1829; 1885; 1895; 1951; 1988; 2056; 2137; 2457; 2599; 3254; 3260; 3269; 3312; 3399; 3573; 3964; 3991; 4500; 4557; 4590; 4935; 5369; 5387; 5398
Bso3II	GGTCTCN!	0	
Bso3II	!NNNNNGAGACC	2	1297; 4480
BsoBI	C!YCGRG	4	613; 656; 1639; 1681
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 677; 3220; 3923
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4294
Bsp24I	!NNNNNNCCANNNNNGTC	2	4715; 4893
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4747; 4925
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4262
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 4173
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	26	585; 609; 660; 1040; 1190; 1216; 1460; 1544; 1997; 2148; 3328; 3332; 3351; 3662; 3740; 3821; 3830; 3908; 4284; 4300; 4659; 4671; 4749; 4757; 4768; 4843
Bsp1286I	GDGCH!C	21	620; 657; 733; 760; 793; 1370; 1454; 1484; 1583; 1646; 1976; 2023; 2075; 2682; 3437; 3530; 3604; 3794; 3856; 4566; 5099
Bsp1407I	T!GTACA	2	719; 1865
Bsp1720I	GC!TNAGC	1	2130
BspACI	C!CGC	44	58; 86; 98; 112; 279; 507; 589; 649; 989; 1127; 1229; 1632; 1740; 1779; 1917; 2030; 2046; 2058; 2127; 2138; 2806; 2809; 2823; 2913; 3161; 3173; 3182; 3194; 3204; 3215; 3261; 3400; 3463; 3965; 4010; 4076; 4102; 4227; 4230; 4378; 4510; 4817; 4961; 5457
BspACI	G!CGG	35	370; 403; 528; 651; 824; 1136; 1178; 1385; 1424; 1429; 1505; 1742; 1934; 1937; 2134; 2751; 2778; 2866; 2976; 3557; 3621; 3722; 3725; 4005; 4060; 4158; 4296; 4443; 4583; 4826; 5071; 5192; 5211; 5338; 5366
BspCNI	CTCAGNNNNNNNN!	4	619; 1420; 2037; 4616
BspCNI	!NNNNNNCTGAG	8	927; 2009; 2122; 2963; 3265; 4146; 4718; 5127
BspDI	AT!CGAT	1	3331
BspD6I	GACTCNNNN!	6	418; 612; 2150; 2564; 4170; 5047
BspD6I	!NNNNNGAGTC	4	949; 2073; 2527; 2959
BspEI	T!CCGGA	0	
BspFNI	CG!CG	20	60; 651; 1429; 1505; 1742; 2060; 2140; 2415; 2791; 2811; 2835; 2866; 3557; 3858; 4296; 4380; 4443; 4512; 4785; 5366
BspHI	T!CATGA	2	2917; 4689
BspLI	GGN!NCC	22	467; 647; 655; 662; 732; 792; 1183; 1404; 1989; 2646; 2667; 2679; 2870; 3031; 3103; 3492; 3527; 4375; 4454; 4499; 5342; 5381
BspMI	ACCTGCNNNN!	2	3759; 4209

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspMI	!NNNNNNNNGCAGGT	1	3378
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	668; 3359; 3670; 3916; 4308; 4667; 4765; 4851
BspPI	!NNNNNGATCC	8	580; 655; 1211; 1992; 3735; 4279; 4666; 4763
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	2	3835; 4045
BspTI	C!TTAAG	1	2373
BspT104I	TT!CGAA	2	627; 4173
BspT107I	G!GYRCC	8	465; 645; 730; 790; 1402; 2644; 3490; 3525
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	1297; 4480
BsrI	ACTGGN!	5	1280; 1367; 3435; 3636; 4882
BsrI	C!CAGT	6	295; 1620; 2520; 3198; 4994; 5007
BsrBI	CCG!CTC	2	2915; 4104
BsrBI	GAG!CGG	3	2134; 2751; 4158
BsrDI	GCAATGNN!	1	3724
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	666; 1441; 1564; 2708; 3810; 3991; 4274
BsrGI	T!GTACA	2	719; 1865
BsrSI	ACTGGN!	5	1280; 1367; 3435; 3636; 4882
BsrSI	C!CAGT	6	295; 1620; 2520; 3198; 4994; 5007
BssAI	R!CCGGY	7	666; 1441; 1564; 2708; 3810; 3991; 4274
BssECI	C!CNNGG	31	360; 649; 656; 677; 764; 899; 900; 995; 1582; 1592; 1682; 1740; 1769; 1824; 1976; 1977; 2106; 3025; 3097; 3220; 3255; 3264; 3313; 3654; 3923; 4328; 4455; 4456; 4558; 4559; 5249
BssHII	G!CGCGC	0	
BssKI	!CCNNGG	32	88; 281; 655; 656; 851; 899; 995; 1010; 1139; 1248; 1582; 1592; 1694; 1715; 1769; 1823; 1895; 1976; 2075; 3025; 3080; 3097; 3493; 3653; 3876; 4266; 4455; 4558; 5030; 5248; 5261; 5382
BssMI	!GATC	26	585; 609; 660; 1040; 1190; 1216; 1460; 1544; 1997; 2148; 3328; 3332; 3351; 3662; 3740; 3821; 3830; 3908; 4284; 4300; 4659; 4671; 4749; 4757; 4768; 4843
BssNI	GR!CGYC	9	122; 175; 258; 444; 1253; 1523; 3491; 4193; 4272
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1321; 4209; 5236
BssSI	C!TCGTG	2	1171; 4083
BssT1I	C!CWWGG	6	360; 677; 3220; 3313; 3923; 4328
Bst6I	CTCTTCN!	1	1717
Bst6I	!NNNNGAAGAG	3	2958; 3835; 4045
Bst98I	C!TTAAG	1	2373
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 1253; 1523; 3491; 4193; 4272
BstAFI	C!TTAAG	1	2373
BstAPI	GCANNNN!NTGC	4	1622; 3058; 3130; 4592
BstAUI	T!GTACA	2	719; 1865
BstBI	TT!CGAA	2	627; 4173
Bst2BI	C!ACGAG	3	1321; 4209; 5236
Bst2BI	C!TCGTG	2	1171; 4083
BstBAI	YAC!GTR	3	340; 2607; 3795
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 645; 735; 1402; 2582; 3871; 3987; 4095; 4418; 4909; 5379; 5450
BstC8I	GCN!NGC	41	86; 279; 593; 653; 688; 778; 982; 1443; 1501; 1537; 1570; 1632; 1942; 1949; 2058; 2094; 2710; 2753; 2767; 3040; 3059; 3112; 3131; 3385; 3571; 3790; 3856; 3862; 3890; 3894; 3935; 3939; 3993; 4276; 4463; 4510; 4566; 4588; 4799; 5359; 5396
BstDEI	C!TNAG	13	606; 935; 1232; 1407; 2017; 2024; 2130; 2971; 3273; 4154; 4603; 4726; 5135
BstDSI	C!CRYGG	7	360; 649; 677; 1740; 2106; 3220; 3923
BstEII	G!GTNACC	1	1596
BstENI	CCTNN!NNNAGG	1	1714
BstF5I	GGATGNN!	4	3351; 3808; 3833; 4287
BstF5I	!CATCC	9	760; 848; 905; 1060; 1616; 1691; 1706; 1820; 3177
BstFNI	CG!CG	20	60; 651; 1429; 1505; 1742; 2060; 2140; 2415; 2791; 2811; 2835; 2866; 3557; 3858; 4296; 4380; 4443; 4512; 4785; 5366
BstH2I	RGCGC!Y	7	598; 1676; 2093; 2758; 2766; 3494; 5169

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstHHI	GCG!C	26	597; 1429; 1505; 1675; 1703; 2092; 2757; 2765; 2791; 2813; 2822; 2835; 2866; 3485; 3493; 3557; 3594; 3860; 4120; 4296; 4382; 4785; 4894; 5068; 5168; 5235
BstKTI	GAT!C	26	588; 612; 663; 1043; 1193; 1219; 1463; 1547; 2000; 2151; 3331; 3335; 3354; 3665; 3743; 3824; 3833; 3911; 4287; 4303; 4662; 4674; 4752; 4760; 4771; 4846
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	5	1297; 2915; 3333; 4352; 4480
BstMBI	!GATC	26	585; 609; 660; 1040; 1190; 1216; 1460; 1544; 1997; 2148; 3328; 3332; 3351; 3662; 3740; 3821; 3830; 3908; 4284; 4300; 4659; 4671; 4749; 4757; 4768; 4843
BstMCI	CGRY!CG	4	671; 2138; 3400; 5075
BstMWI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 714; 1145; 1464; 1505; 1565; 1578; 1622; 1853; 2045; 2096; 2718; 2748; 2775; 2817; 3058; 3130; 3181; 3260; 3482; 3566; 3589; 3728; 3851; 3934; 4201; 4388; 4592; 4791; 5363
BstNI	CC!WGG	25	90; 283; 853; 901; 997; 1012; 1141; 1584; 1594; 1696; 1717; 1771; 1825; 1897; 1978; 2077; 3027; 3082; 3099; 3878; 4457; 4560; 5250; 5263; 5384
BstNSI	RCATG!Y	5	708; 3061; 3133; 3896; 5413
BstOI	CC!WGG	25	90; 283; 853; 901; 997; 1012; 1141; 1584; 1594; 1696; 1717; 1771; 1825; 1897; 1978; 2077; 3027; 3082; 3099; 3878; 4457; 4560; 5250; 5263; 5384
BstPI	G!GTNACC	1	1596
BstPAI	GACNN!NNGTC	1	1309
BstSCI	!CCNGG	32	88; 281; 655; 656; 851; 899; 995; 1010; 1139; 1248; 1582; 1592; 1694; 1715; 1769; 1823; 1895; 1976; 2075; 3025; 3080; 3097; 3493; 3653; 3876; 4266; 4455; 4558; 5030; 5248; 5261; 5382
BstSFI	C!TRYAG	4	634; 2826; 4953; 5144
BstSLI	GKGCMI!C	12	657; 733; 760; 793; 1370; 1454; 1484; 1583; 1976; 3437; 3530; 5099
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	20	60; 651; 1429; 1505; 1742; 2060; 2140; 2415; 2791; 2811; 2835; 2866; 3557; 3858; 4296; 4380; 4443; 4512; 4785; 5366
Bst2UI	CC!WGG	25	90; 283; 853; 901; 997; 1012; 1141; 1584; 1594; 1696; 1717; 1771; 1825; 1897; 1978; 2077; 3027; 3082; 3099; 3878; 4457; 4560; 5250; 5263; 5384
BstV1I	GCAGCNNNNNNNN!	9	887; 1329; 1956; 2279; 3564; 3606; 4127; 4580; 5080
BstV1I	!NNNNNNNNNNNGCTGC	9	1006; 1559; 2083; 2773; 3438; 3622; 3715; 4781; 4987
BstV2I	GAAGACNN!	1	977
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	11	585; 609; 660; 1216; 3662; 3908; 4300; 4659; 4671; 4757; 4768
BstYI	R!GATCY	11	585; 609; 660; 1216; 3662; 3908; 4300; 4659; 4671; 4757; 4768
BstZI	C!GGCCG	2	2135; 3397
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2920; 3710; 5211
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3331
Bsu36I	CC!TNAGG	3	935; 2971; 4603
BsuRI	GG!CC	37	84; 277; 655; 827; 1070; 1105; 1139; 1162; 1184; 1294; 1336; 1487; 1587; 1829; 1885; 1895; 1951; 1988; 2056; 2137; 2457; 2599; 3254; 3260; 3269; 3312; 3399; 3573; 3964; 3991; 4500; 4557; 4590; 4935; 5369; 5387; 5398
BsuTUI	AT!CGAT	1	3331
BtgI	C!CRYGG	7	360; 649; 677; 1740; 2106; 3220; 3923
BtgZI	GCGATGNNNNNNNNNN!	2	2608; 3943
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3762; 4106
BthCI	GCNG!C	43	827; 878; 1022; 1139; 1320; 1427; 1508; 1575; 1745; 1937; 1940; 1947; 2099; 2137; 2140; 2270; 2789; 2811; 2825; 3263; 3402; 3454; 3465; 3555; 3560; 3597; 3638; 3725; 3728; 3731; 3967; 4063; 4104; 4118; 4232; 4571; 4586; 4797; 5003; 5006; 5071; 5214; 5369
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	1479
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2330

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BtsCI	GGATGNN!	4	3351; 3808; 3833; 4287
BtsCI	!CATCC	9	760; 848; 905; 1060; 1616; 1691; 1706; 1820; 3177
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3759; 4209
BveI	!NNNNNNNNNGCAGGT	1	3378
Cac8I	GcN!NGC	41	86; 279; 593; 653; 688; 778; 982; 1443; 1501; 1537; 1570; 1632; 1942; 1949; 2058; 2094; 2710; 2753; 2767; 3040; 3059; 3112; 3131; 3385; 3571; 3790; 3856; 3862; 3890; 3894; 3935; 3939; 3993; 4276; 4463; 4510; 4566; 4588; 4799; 5359; 5396
CaiI	CAGNNN!CTG	4	1343; 2093; 4592; 5000
CciI	T!CATGA	2	2917; 4689
CciNI	Gc!GGCCGC	1	2135
CdiI	CATC!G	8	352; 1449; 1785; 1929; 3780; 3785; 3983; 4124
CdiI	C!GATG	2	2594; 3929
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	2	1454; 5363
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3152; 3194
CelII	Gc!TNAGC	1	2130
CfoI	GCG!C	26	597; 1429; 1505; 1675; 1703; 2092; 2757; 2765; 2791; 2813; 2822; 2835; 2866; 3485; 3493; 3557; 3594; 3860; 4120; 4296; 4382; 4785; 4894; 5068; 5168; 5235
CfrI	Y!GGCCR	8	1334; 1485; 1949; 2135; 3397; 3571; 3962; 3989
Cfr9I	C!CCGGG	1	656
Cfr10I	R!CCGGY	7	666; 1441; 1564; 2708; 3810; 3991; 4274
Cfr13I	G!GNCC	19	83; 276; 654; 826; 1069; 1161; 1182; 1266; 1586; 1827; 1987; 2043; 2055; 2598; 4007; 4452; 4498; 4556; 4589
Cfr42I	CCGC!GG	2	652; 1743
ChaI	GATC!	26	589; 613; 664; 1044; 1194; 1220; 1464; 1548; 2001; 2152; 3332; 3336; 3355; 3666; 3744; 3825; 3834; 3912; 4288; 4304; 4663; 4675; 4753; 4761; 4772; 4847
CjeI	CCANNNNNGTNNNNNNNNNNNNNNNN!	6	772; 1882; 3308; 4748; 4848; 4926
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2975; 3070; 4262; 4812; 5367
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNNNN!	7	98; 291; 3009; 3104; 4296; 4846; 5401
CjeI	!NNNNNNNNCCANNNNNNNGT	6	738; 1848; 3274; 4714; 4814; 4892
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNNNN!	2	4748; 4926
CjePI	!NNNNNNNNGANNNNNNNTGG	5	257; 797; 1142; 4262; 4861
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNNNN!	5	290; 830; 1175; 4295; 4894
CjePI	!NNNNNNNNCCANNNNNNNTC	2	4715; 4893
Clal	AT!CGAT	1	3331
CpoI	CG!GWCCG	1	4007
CseI	GACGCNNNNN!	4	526; 1531; 4201; 4280
CseI	!NNNNNNNNNNNGCGTC	4	1242; 2824; 4719; 5297
CsiI	A!CCWGGT	1	3080
CspI	CG!GWCCG	1	4007
Csp6I	G!TAC	16	218; 243; 298; 331; 382; 539; 646; 720; 870; 1122; 1403; 1731; 1842; 1866; 2124; 3796
Csp45I	TT!CGAA	2	627; 4173
CspAI	A!CCGGT	1	666
CspCI	CAANNNNNGTGGNNNNNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNNNN!	5	722; 1313; 1832; 2771; 4380
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	28	301; 361; 678; 705; 711; 723; 801; 867; 947; 1158; 1647; 1677; 1872; 2067; 2112; 2918; 3058; 3130; 3221; 3362; 3707; 3893; 3924; 3950; 4306; 4690; 5410; 5461
CviJI	RG!CY	113	42; 84; 93; 277; 566; 618; 624; 655; 690; 717; 780; 827; 856; 863; 941; 1007; 1019; 1070; 1097; 1105; 1139; 1162; 1170; 1184; 1294; 1330; 1336; 1434; 1467; 1487; 1539; 1572; 1587; 1688; 1788; 1829; 1836; 1847; 1856; 1885; 1895; 1947; 1951; 1988; 2056; 2121; 2137; 2160; 2270; 2437; 2457; 2599; 2680; 2694; 2708; 2989; 3030; 3102; 3225; 3254; 3260; 3269; 3277; 3300; 3312; 3318; 3399; 3416; 3424; 3451; 3476; 3560; 3569; 3573; 3597; 3635; 3711; 3728; 3747; 3810; 3854; 3864; 3881; 3964; 3991; 3995; 4032; 4055; 4071; 4251; 4278; 4339; 4461; 4500; 4557; 4564; 4571; 4590; 4601; 4852; 4881; 4924; 4935; 5000; 5079; 5104; 5109; 5155; 5245; 5343; 5369; 5387; 5398

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	113	42; 84; 93; 277; 566; 618; 624; 655; 690; 717; 780; 827; 856; 863; 941; 1007; 1019; 1070; 1097; 1105; 1139; 1162; 1170; 1184; 1294; 1330; 1336; 1434; 1467; 1487; 1539; 1572; 1587; 1688; 1788; 1829; 1836; 1847; 1856; 1885; 1895; 1947; 1951; 1988; 2056; 2121; 2137; 2160; 2270; 2437; 2457; 2599; 2680; 2694; 2708; 2989; 3030; 3102; 3225; 3254; 3260; 3269; 3277; 3300; 3312; 3318; 3399; 3416; 3424; 3451; 3476; 3560; 3569; 3573; 3597; 3635; 3711; 3728; 3747; 3810; 3854; 3864; 3881; 3964; 3991; 3995; 4032; 4055; 4071; 4251; 4278; 4339; 4461; 4500; 4557; 4564; 4571; 4590; 4601; 4852; 4881; 4924; 4935; 5000; 5079; 5104; 5109; 5155; 5245; 5343; 5369; 5387; 5398
CviQI	G!TAC	16	218; 243; 298; 331; 382; 539; 646; 720; 870; 1122; 1403; 1731; 1842; 1866; 2124; 3796
DdeI	C!TNAG	13	606; 935; 1232; 1407; 2017; 2024; 2130; 2971; 3273; 4154; 4603; 4726; 5135
DinI	GGC!GCC	1	3492
DpnI	GA!TC	26	587; 611; 662; 1042; 1192; 1218; 1462; 1546; 1999; 2150; 3330; 3334; 3353; 3664; 3742; 3823; 3832; 3910; 4286; 4302; 4661; 4673; 4751; 4759; 4770; 4845
DpnII	!GATC	26	585; 609; 660; 1040; 1190; 1216; 1460; 1544; 1997; 2148; 3328; 3332; 3351; 3662; 3740; 3821; 3830; 3908; 4284; 4300; 4659; 4671; 4749; 4757; 4768; 4843
DraI	TTT!AAA	3	2193; 4635; 4654
DraII	RG!GNCCY	1	4589
DraIII	CACNNN!GTG	4	1326; 1863; 2070; 2607
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	5	266; 1754; 1823; 2066; 4971
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	2562; 3518; 5307
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2562; 3518; 5307
EaeI	Y!GGCCR	8	1334; 1485; 1949; 2135; 3397; 3571; 3962; 3989
EagI	C!GGCCG	2	2135; 3397
Eam1104I	CTCTCN!	1	1717
Eam1104I	!NNNNGAAGAG	3	2958; 3835; 4045
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	1	1717
EarI	!NNNNGAAGAG	3	2958; 3835; 4045
EciI	GGCGANNNNNNNNNNNN!	4	2991; 4020; 5207; 5353
EciI	!NNNNNNNNNTCCGCC	4	496; 3162; 3183; 3204
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	2	2135; 3397
Eco24I	GRGCY!C	5	620; 657; 2682; 3856; 4566
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	2	1297; 4480
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	1266; 2043; 4007; 4452
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	2135; 3397
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	1186; 1810; 3637; 4069
Eco57I	!NNNNNNNNNNNNNNNNCTTCAG	2	2070; 4867
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	935; 2971; 4603
Eco88I	C!YCGRG	4	613; 656; 1639; 1681
Eco91I	G!GTNACC	1	1596
Eco105I	TAC!GTA	1	340
Eco130I	C!CWGGG	6	360; 677; 3220; 3313; 3923; 4328
Eco147I	AGG!CCT	1	3312
EcoHI	!CCSGG	7	655; 656; 1248; 3493; 3653; 4266; 5030
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	9	1186; 1561; 1810; 1858; 1918; 2098; 3637; 4069; 4331
Eco57MI	!NNNNNNNNNNNNNNNNCTYCAG	4	994; 2070; 4274; 4867
EcoNI	CCTNN!NNNAGG	1	1714
Eco065I	G!GTNACC	1	1596
Eco0109I	RG!GNCCY	1	4589
EcoRI	G!AATTC	1	629

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EcoRII	!CCWGG	25	88; 281; 851; 899; 995; 1010; 1139; 1582; 1592; 1694; 1715; 1769; 1823; 1895; 1976; 2075; 3025; 3080; 3097; 3876; 4455; 4558; 5248; 5261; 5382
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 677; 3220; 3313; 3923; 4328
EcoT22I	ATGCA!T	3	3063; 3135; 5466
EcoT38I	GRGCY!C	5	620; 657; 2682; 3856; 4566
Eco53kI	GAG!CTC	1	618
EgeI	GGC!GCC	1	3492
EheI	GGC!GCC	1	3492
ErhI	C!CWWGG	6	360; 677; 3220; 3313; 3923; 4328
EsaBC3I	TC!GA	22	615; 628; 641; 819; 846; 1314; 1398; 1464; 1758; 1785; 1929; 2641; 3332; 3605; 3761; 3785; 3821; 3983; 4174; 4219; 4474; 5312
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	28	304; 364; 681; 708; 714; 726; 804; 870; 950; 1161; 1650; 1680; 1875; 2070; 2115; 2921; 3061; 3133; 3224; 3365; 3710; 3896; 3927; 3953; 4309; 4693; 5413; 5464
Fail	YA!TR	67	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 706; 712; 724; 802; 868; 948; 966; 1159; 1212; 1262; 1648; 1678; 1873; 2068; 2113; 2153; 2163; 2229; 2274; 2479; 2907; 2919; 3050; 3059; 3122; 3131; 3155; 3222; 3246; 3363; 3427; 3708; 3733; 3894; 3925; 3951; 4023; 4239; 4307; 4385; 4437; 4598; 4615; 4617; 4619; 4691; 4969; 5158; 5274; 5347; 5411; 5462
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	945; 3831
FalI	!NNNNNNNNAAGNNNNNCTT	2	913; 3799
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3642; 4174; 4283
FaqI	!NNNNNNNNNNNNNGTCCC	4	3007; 3079; 3143; 4438
FatI	!CATG	28	300; 360; 677; 704; 710; 722; 800; 866; 946; 1157; 1646; 1676; 1871; 2066; 2111; 2917; 3057; 3129; 3220; 3361; 3706; 3892; 3923; 3949; 4305; 4689; 5409; 5460
FauI	CCCGCNNNN!	14	93; 119; 286; 1134; 1236; 1639; 1747; 1924; 2065; 2813; 3168; 3189; 4385; 4517
FauI	!NNNNNNNGCGGG	7	644; 1171; 2744; 3614; 4151; 4289; 4436
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	3	640; 1256; 1397
FmuI	GGNC!C	19	86; 279; 657; 829; 1072; 1164; 1185; 1269; 1589; 1830; 1990; 2046; 2058; 2601; 4010; 4455; 4501; 4559; 4592
Fnu4HI	GC!NGC	43	825; 876; 1020; 1137; 1318; 1425; 1506; 1573; 1743; 1935; 1938; 1945; 2097; 2135; 2138; 2268; 2787; 2809; 2823; 3261; 3400; 3452; 3463; 3553; 3558; 3595; 3636; 3723; 3726; 3729; 3965; 4061; 4102; 4116; 4230; 4569; 4584; 4795; 5001; 5004; 5069; 5212; 5367
FokI	GGATGNNNNNNNNN!	4	3358; 3815; 3840; 4294
FokI	!NNNNNNNNNNNNNCATCC	8	747; 835; 892; 1047; 1603; 1678; 1807; 3164
FriOI	GRGCY!C	5	620; 657; 2682; 3856; 4566
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3593
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1355; 2146; 2340; 2758; 3314; 4329; 4663; 4916

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	185	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 747; 777; 794; 808; 841; 855; 873; 897; 912; 942; 975; 1002; 1017; 1036; 1072; 1119; 1138; 1153; 1176; 1198; 1221; 1241; 1262; 1282; 1308; 1350; 1366; 1419; 1455; 1501; 1539; 1575; 1589; 1605; 1633; 1651; 1689; 1708; 1723; 1752; 1782; 1837; 1870; 1889; 1909; 1929; 1965; 1980; 2002; 2016; 2043; 2059; 2077; 2097; 2113; 2140; 2174; 2213; 2227; 2368; 2463; 2487; 2510; 2533; 2551; 2573; 2594; 2613; 2632; 2661; 2682; 2696; 2722; 2810; 2836; 2885; 2926; 2944; 2983; 2999; 3037; 3094; 3109; 3166; 3186; 3200; 3217; 3231; 3268; 3283; 3326; 3409; 3476; 3507; 3527; 3542; 3587; 3601; 3667; 3681; 3700; 3716; 3757; 3777; 3824; 3874; 3890; 3910; 3935; 3955; 3978; 4005; 4023; 4049; 4089; 4115; 4139; 4195; 4209; 4237; 4280; 4301; 4336; 4380; 4468; 4492; 4514; 4534; 4550; 4571; 4585; 4604; 4688; 4708; 4736; 4751; 4785; 4827; 4854; 4869; 4914; 4938; 4952; 4974; 5000; 5020; 5044; 5070; 5118; 5137; 5156; 5182; 5217; 5262; 5292; 5306; 5357; 5371; 5396; 5412; 5433; 5462
FspEI	!NNNNNNNNNNNNNGG	153	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 682; 709; 751; 772; 796; 838; 857; 886; 922; 959; 982; 1001; 1031; 1052; 1079; 1118; 1144; 1163; 1235; 1261; 1309; 1348; 1370; 1403; 1427; 1453; 1490; 1517; 1550; 1569; 1598; 1669; 1702; 1727; 1745; 1777; 1795; 1822; 1867; 1885; 1915; 1933; 1963; 2026; 2053; 2093; 2119; 2162; 2262; 2331; 2361; 2439; 2488; 2510; 2538; 2574; 2619; 2648; 2684; 2703; 2731; 2751; 2814; 2837; 2945; 2977; 2995; 3024; 3067; 3096; 3207; 3236; 3279; 3300; 3328; 3361; 3381; 3406; 3433; 3458; 3480; 3508; 3534; 3555; 3606; 3627; 3645; 3693; 3729; 3785; 3810; 3834; 3863; 3886; 3910; 3936; 3958; 3977; 4002; 4042; 4078; 4143; 4228; 4252; 4281; 4315; 4336; 4356; 4401; 4428; 4447; 4480; 4532; 4563; 4590; 4642; 4740; 4811; 4856; 4917; 4982; 5016; 5042; 5060; 5096; 5166; 5189; 5211; 5235; 5268; 5316; 5351; 5369; 5426
Fsp4HI	GC!NGC	43	825; 876; 1020; 1137; 1318; 1425; 1506; 1573; 1743; 1935; 1938; 1945; 2097; 2135; 2138; 2268; 2787; 2809; 2823; 3261; 3400; 3452; 3463; 3553; 3558; 3595; 3636; 3723; 3726; 3729; 3965; 4061; 4102; 4116; 4230; 4569; 4584; 4795; 5001; 5004; 5069; 5212; 5367
GdiII	C!GGCCR	3	1485; 2135; 3397
GdiII	Y!GGCCG	5	1949; 2135; 3397; 3962; 3989
GlaI	GC!GC	26	596; 1428; 1504; 1674; 1702; 2091; 2756; 2764; 2790; 2812; 2821; 2834; 2865; 3484; 3492; 3556; 3593; 3859; 4119; 4295; 4381; 4784; 4893; 5067; 5167; 5234
GluI	GC!NGC	43	825; 876; 1020; 1137; 1318; 1425; 1506; 1573; 1743; 1935; 1938; 1945; 2097; 2135; 2138; 2268; 2787; 2809; 2823; 3261; 3400; 3452; 3463; 3553; 3558; 3595; 3636; 3723; 3726; 3729; 3965; 4061; 4102; 4116; 4230; 4569; 4584; 4795; 5001; 5004; 5069; 5212; 5367
GsaI	CCCAG!C	3	3038; 3110; 5109
GsaI	GCTGG!G	2	1101; 3999
GsuI	CTGGAGNNNNNNNNNNNNNN!	5	1561; 1858; 1918; 2098; 4331
GsuI	!NNNNNNNNNNNNNCTCCAG	2	994; 4274
HaeI	WGG!CCW	8	1105; 1336; 1885; 3312; 3573; 4935; 5387; 5398
HaeII	RGCG!Y	7	598; 1676; 2093; 2758; 2766; 3494; 5169
HaeIII	GG!CC	37	84; 277; 655; 827; 1070; 1105; 1139; 1162; 1184; 1294; 1336; 1487; 1587; 1829; 1885; 1895; 1951; 1988; 2056; 2137; 2457; 2599; 3254; 3260; 3269; 3312; 3399; 3573; 3964; 3991; 4500; 4557; 4590; 4935; 5369; 5387; 5398
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2166; 3687
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2132; 3653
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2165; 3686
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2134; 3655
HapII	C!CGG	23	601; 657; 667; 1250; 1418; 1442; 1565; 2709; 3396; 3473; 3495; 3523; 3654; 3744; 3811; 3992; 4267; 4275; 4367; 4841; 5031; 5057; 5204
HgaI	GACGCNNNNN!	4	526; 1531; 4201; 4280
HgaI	!NNNNNNNNNNNGCGTC	4	1242; 2824; 4719; 5297
HhaI	GCG!C	26	597; 1429; 1505; 1675; 1703; 2092; 2757; 2765; 2791; 2813; 2822; 2835; 2866; 3485; 3493; 3557; 3594; 3860; 4120; 4296; 4382; 4785; 4894; 5068; 5168; 5235
HinII	GR!CGYC	9	122; 175; 258; 444; 1253; 1523; 3491; 4193; 4272

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hin1II	CATG!	28	304; 364; 681; 708; 714; 726; 804; 870; 950; 1161; 1650; 1680; 1875; 2070; 2115; 2921; 3061; 3133; 3224; 3365; 3710; 3896; 3927; 3953; 4309; 4693; 5413; 5464
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1422; 2165; 3686
Hin4I	!NNNNNNNGABNNNNNNRTC	3	2133; 3654; 3684
Hin4I	GABNNNNNNRTCNNNNNNNNNNNN!	3	2165; 3686; 3716
Hin4I	!NNNNNNNGAYNNNNNVTC	3	1390; 2133; 3654
Hin6I	G!CGC	26	595; 1427; 1503; 1673; 1701; 2090; 2755; 2763; 2789; 2811; 2820; 2833; 2864; 3483; 3491; 3555; 3592; 3858; 4118; 4294; 4380; 4783; 4892; 5066; 5166; 5233
HinP1I	G!CGC	26	595; 1427; 1503; 1673; 1701; 2090; 2755; 2763; 2789; 2811; 2820; 2833; 2864; 3483; 3491; 3555; 3592; 3858; 4118; 4294; 4380; 4783; 4892; 5066; 5166; 5233
HincII	GTY!RAC	3	641; 1398; 2254
HindII	GTY!RAC	3	641; 1398; 2254
HindIII	A!AGCTT	1	622
Hinfi	G!ANTC	17	410; 604; 806; 956; 1283; 2080; 2142; 2534; 2556; 2966; 3976; 4110; 4162; 4220; 4257; 5039; 5435
HpaI	GTT!AAC	1	2254
HpaII	C!CGG	23	601; 657; 667; 1250; 1418; 1442; 1565; 2709; 3396; 3473; 3495; 3523; 3654; 3744; 3811; 3992; 4267; 4275; 4367; 4841; 5031; 5057; 5204
HphI	GGTGANNNNNNNN!	10	376; 693; 1062; 1399; 1608; 1761; 1785; 1914; 4562; 4678
HphI	!NNNNNNNTCACC	3	951; 2608; 3669
Hpy8I	GTN!NAC	19	201; 539; 577; 641; 738; 758; 1053; 1257; 1266; 1398; 1482; 1776; 1866; 1905; 2254; 2538; 2555; 2610; 5097
Hpy99I	CGWCG!	14	645; 1315; 1402; 1480; 1525; 1726; 1987; 3581; 3609; 3903; 3918; 4195; 4580; 5313
Hpy166II	GTN!NAC	19	201; 539; 577; 641; 738; 758; 1053; 1257; 1266; 1398; 1482; 1776; 1866; 1905; 2254; 2538; 2555; 2610; 5097
Hpy188I	TCN!GA	15	585; 609; 765; 1045; 2027; 2665; 3274; 3458; 3802; 4155; 4256; 4735; 4869; 5222; 5300
Hpy188III	TC!NNGA	26	613; 1038; 1203; 1242; 1668; 1911; 2146; 2918; 2970; 3283; 3336; 3509; 3825; 3834; 3917; 3973; 4017; 4107; 4140; 4209; 4690; 4764; 4847; 4945; 5043; 5177
HpyAV	CCTTCNNNNNN!	7	846; 894; 939; 2094; 4136; 4243; 4922
HpyAV	!NNNNNGAAGG	10	766; 1138; 1785; 2724; 3619; 4348; 4364; 4547; 4864; 5174
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 645; 735; 1402; 2582; 3871; 3987; 4095; 4418; 4909; 5379; 5450
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 1034; 1310; 1478; 1862; 1970; 2551; 2563; 2606; 2716; 3607; 3794; 4575; 4708
HpyCH4V	TG!CA	24	636; 708; 758; 1080; 1196; 1482; 1559; 1944; 2240; 2267; 2335; 3052; 3061; 3124; 3133; 3248; 3324; 3383; 3542; 3717; 3731; 4801; 5097; 5464
HpyF3I	C!TNAG	13	606; 935; 1232; 1407; 2017; 2024; 2130; 2971; 3273; 4154; 4603; 4726; 5135
HpyF10VI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 714; 1145; 1464; 1505; 1565; 1578; 1622; 1853; 2045; 2096; 2718; 2748; 2775; 2817; 3058; 3130; 3181; 3260; 3482; 3566; 3589; 3728; 3851; 3934; 4201; 4388; 4592; 4791; 5363
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 1253; 1523; 3491; 4193; 4272
Hsp92II	CATG!	28	304; 364; 681; 708; 714; 726; 804; 870; 950; 1161; 1650; 1680; 1875; 2070; 2115; 2921; 3061; 3133; 3224; 3365; 3710; 3896; 3927; 3953; 4309; 4693; 5413; 5464
HspAI	G!CGC	26	595; 1427; 1503; 1673; 1701; 2090; 2755; 2763; 2789; 2811; 2820; 2833; 2864; 3483; 3491; 3555; 3592; 3858; 4118; 4294; 4380; 4783; 4892; 5066; 5166; 5233
KasI	G!GCGCC	1	3490
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	2	649; 1406
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	2	652; 1743
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	2254
Kzo9I	!GATC	26	585; 609; 660; 1040; 1190; 1216; 1460; 1544; 1997; 2148; 3328; 3332; 3351; 3662; 3740; 3821; 3830; 3908; 4284; 4300; 4659; 4671; 4749; 4757; 4768; 4843
LguI	GCTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LguI	!NNNNGAAGAGC	2	3835; 4045
LpnI	RGC!GCGY	7	596; 1674; 2091; 2756; 2764; 3492; 5167
LpnPI	CCDGNNNNNNNNNNN!	75	102; 295; 614; 670; 808; 865; 913; 947; 1009; 1024; 1085; 1153; 1177; 1201; 1263; 1350; 1431; 1455; 1578; 1596; 1633; 1708; 1729; 1783; 1837; 1909; 1975; 1990; 2029; 2089; 2106; 2228; 2533; 2722; 2945; 2983; 2999; 3039; 3094; 3111; 3211; 3296; 3409; 3486; 3508; 3531; 3667; 3681; 3700; 3757; 3824; 3874; 3890; 3947; 4005; 4214; 4280; 4304; 4380; 4469; 4572; 4605; 4836; 4854; 5000; 5020; 5044; 5070; 5119; 5217; 5262; 5292; 5371; 5396; 5433
LpnPI	!NNNNNNNNNNNNNNCHGG	68	75; 268; 552; 586; 642; 838; 886; 982; 1083; 1126; 1235; 1261; 1348; 1403; 1427; 1453; 1525; 1550; 1569; 1681; 1702; 1756; 1810; 1882; 1933; 1963; 2062; 2574; 2694; 2751; 2814; 3012; 3024; 3084; 3096; 3328; 3373; 3416; 3458; 3480; 3508; 3555; 3617; 3639; 3729; 3796; 3819; 3863; 3958; 3977; 4002; 4151; 4252; 4295; 4352; 4442; 4545; 4572; 4590; 4826; 4863; 5016; 5042; 5182; 5200; 5235; 5316; 5369
Lsp1109I	GCAGCNNNNNNNN!	9	887; 1329; 1956; 2279; 3564; 3606; 4127; 4580; 5080
Lsp1109I	!NNNNNNNNNNNGCTGC	9	1006; 1559; 2083; 2773; 3438; 3622; 3715; 4781; 4987
LweI	GCATCNNNNN!	10	914; 1454; 1625; 1790; 2307; 3070; 3142; 3790; 3854; 4129
LweI	!NNNNNNNNNGATGC	8	357; 1067; 1106; 1235; 3449; 3704; 3920; 5312
MabI	A!CCWGGT	1	3080
MaeI	C!TAG	9	592; 1355; 2146; 2340; 2758; 3314; 4329; 4663; 4916
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 1034; 1310; 1478; 1862; 1970; 2551; 2563; 2606; 2716; 3607; 3794; 4575; 4708
MaeIII	!GTNAC	15	61; 148; 497; 957; 1387; 1596; 2279; 2780; 2792; 3611; 3917; 4607; 4873; 4989; 5052
MalI	GA!TC	26	587; 611; 662; 1042; 1192; 1218; 1462; 1546; 1999; 2150; 3330; 3334; 3353; 3664; 3742; 3823; 3832; 3910; 4286; 4302; 4661; 4673; 4751; 4759; 4770; 4845
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2915; 4104
MbiI	GAG!CGG	3	2134; 2751; 4158
MboI	!GATC	26	585; 609; 660; 1040; 1190; 1216; 1460; 1544; 1997; 2148; 3328; 3332; 3351; 3662; 3740; 3821; 3830; 3908; 4284; 4300; 4659; 4671; 4749; 4757; 4768; 4843
MboII	GAAGANNNNNNNN!	8	982; 1095; 1662; 2747; 2975; 3852; 4062; 4681
MboII	!NNNNNNNTCTTC	6	1656; 1704; 4142; 4309; 4509; 4752
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2241
MfII	R!GATCY	11	585; 609; 660; 1216; 3662; 3908; 4300; 4659; 4671; 4757; 4768
MhII	GDGCH!C	21	620; 657; 733; 760; 793; 1370; 1454; 1484; 1583; 1646; 1976; 2023; 2075; 2682; 3437; 3530; 3604; 3794; 3856; 4566; 5099
MisI	TGG!CCA	2	1336; 3573
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	1336; 3573
MlyI	GAGTCNNNNN!	4	965; 2089; 2543; 2975
MlyI	!NNNNNGACTC	6	404; 598; 2136; 2550; 4156; 5033
Mly113I	GG!CGCC	1	3491
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1088; 2584
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	5016; 5200
MnII	CCTCNNNNNNN!	15	839; 1018; 1033; 1249; 1360; 1416; 1615; 1720; 2210; 3274; 4092; 4298; 4612; 4982; 5306
MnII	!NNNNNGAGG	32	541; 720; 759; 780; 813; 930; 1039; 1095; 1284; 1317; 1366; 1386; 1503; 1677; 1740; 1752; 1803; 1893; 1923; 2046; 2170; 2635; 2966; 3244; 3287; 3302; 3342; 3406; 3542; 3899; 4329; 5232
Mph1103I	ATGCA!T	3	3063; 3135; 5466
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	1441; 2708; 3991; 4274
MroXI	GAANN!NNTTC	1	1660
MscI	TGG!CCA	2	1336; 3573
MseI	T!TAA	17	7; 695; 920; 2192; 2253; 2374; 2395; 2406; 2418; 2429; 2446; 2544; 2815; 4634; 4648; 4653; 4705
MslI	CAYNN!NRTG	8	365; 679; 709; 1114; 1594; 1651; 1771; 3928

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspI	C!CGG	23	601; 657; 667; 1250; 1418; 1442; 1565; 2709; 3396; 3473; 3495; 3523; 3654; 3744; 3811; 3992; 4267; 4275; 4367; 4841; 5031; 5057; 5204
Msp20I	TGG!CCA	2	1336; 3573
MspA1I	CMG!CKG	10	651; 1129; 1385; 1742; 1947; 2129; 2989; 3597; 4826; 5071
MspCI	C!TTAAG	1	2373
MspJI	CNNRRNNNNNNNN!	281	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; 699; 717; 735; 765; 783; 798; 813; 831; 864; 879; 907; 922; 946; 959; 975; 993; 1007; 1023; 1036; 1050; 1071; 1084; 1105; 1118; 1138; 1152; 1170; 1183; 1200; 1215; 1232; 1252; 1282; 1299; 1319; 1333; 1349; 1366; 1381; 1404; 1419; 1440; 1454; 1467; 1480; 1495; 1512; 1527; 1548; 1577; 1590; 1605; 1632; 1651; 1680; 1693; 1707; 1728; 1746; 1770; 1783; 1797; 1818; 1836; 1849; 1870; 1884; 1898; 1923; 1941; 1960; 1974; 1989; 2002; 2028; 2052; 2069; 2088; 2105; 2119; 2142; 2158; 2174; 2198; 2215; 2228; 2269; 2283; 2296; 2314; 2352; 2367; 2385; 2426; 2450; 2470; 2488; 2509; 2532; 2564; 2579; 2601; 2619; 2632; 2653; 2670; 2683; 2696; 2712; 2725; 2755; 2770; 2795; 2813; 2826; 2841; 2865; 2879; 2903; 2928; 2944; 2982; 2998; 3037; 3051; 3065; 3093; 3109; 3123; 3137; 3166; 3179; 3200; 3209; 3231; 3261; 3277; 3295; 3325; 3348; 3372; 3396; 3415; 3443; 3469; 3485; 3498; 3521; 3535; 3555; 3568; 3582; 3601; 3615; 3628; 3644; 3659; 3672; 3688; 3703; 3719; 3744; 3763; 3779; 3792; 3805; 3823; 3837; 3851; 3867; 3889; 3905; 3924; 3946; 3962; 3985; 4004; 4018; 4034; 4048; 4068; 4084; 4097; 4119; 4152; 4166; 4186; 4199; 4213; 4267; 4280; 4303; 4316; 4335; 4352; 4379; 4415; 4448; 4467; 4492; 4513; 4540; 4553; 4570; 4584; 4599; 4615; 4675; 4700; 4716; 4738; 4751; 4765; 4796; 4810; 4835; 4853; 4868; 4881; 4900; 4913; 4928; 4957; 4976; 4994; 5019; 5034; 5053; 5069; 5088; 5106; 5122; 5136; 5155; 5182; 5205; 5227; 5246; 5261; 5274; 5291; 5311; 5338; 5351; 5370; 5395; 5418; 5432; 5445; 5462
MspJI	!NNNNNNNNNNNNYNG	232	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; 709; 739; 763; 781; 805; 824; 846; 886; 907; 933; 953; 982; 1024; 1058; 1079; 1099; 1126; 1144; 1161; 1179; 1207; 1228; 1247; 1273; 1295; 1318; 1341; 1378; 1404; 1424; 1441; 1465; 1482; 1501; 1522; 1542; 1562; 1579; 1598; 1617; 1654; 1681; 1702; 1720; 1742; 1771; 1792; 1810; 1849; 1867; 1897; 1915; 1934; 1957; 1976; 2002; 2022; 2043; 2062; 2079; 2098; 2117; 2143; 2172; 2201; 2243; 2326; 2361; 2388; 2411; 2440; 2484; 2506; 2538; 2574; 2591; 2612; 2649; 2669; 2686; 2703; 2738; 2756; 2774; 2791; 2815; 2837; 2864; 2892; 2918; 2956; 2977; 2994; 3012; 3035; 3056; 3084; 3107; 3128; 3146; 3167; 3184; 3207; 3231; 3251; 3269; 3291; 3322; 3344; 3370; 3389; 3406; 3434; 3453; 3472; 3490; 3508; 3529; 3551; 3575; 3608; 3628; 3646; 3667; 3693; 3720; 3737; 3754; 3771; 3797; 3819; 3841; 3859; 3879; 3898; 3920; 3958; 3978; 4002; 4022; 4042; 4069; 4093; 4126; 4145; 4173; 4195; 4224; 4252; 4277; 4296; 4315; 4336; 4353; 4370; 4401; 4428; 4448; 4471; 4491; 4528; 4545; 4564; 4590; 4610; 4649; 4676; 4695; 4713; 4750; 4768; 4809; 4827; 4853; 4870; 4902; 4931; 4959; 4980; 5003; 5022; 5043; 5061; 5078; 5096; 5122; 5143; 5163; 5183; 5201; 5222; 5248; 5265; 5284; 5303; 5332; 5351; 5369; 5388; 5406; 5424; 5447
MspR9I	CC!NGG	32	90; 283; 657; 658; 853; 901; 997; 1012; 1141; 1250; 1584; 1594; 1696; 1717; 1771; 1825; 1897; 1978; 2077; 3027; 3082; 3099; 3495; 3655; 3878; 4268; 4457; 4560; 5032; 5250; 5263; 5384
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	2241
MvaI	CC!WGG	25	90; 283; 853; 901; 997; 1012; 1141; 1584; 1594; 1696; 1717; 1771; 1825; 1897; 1978; 2077; 3027; 3082; 3099; 3878; 4457; 4560; 5250; 5263; 5384
Mva1269I	GAATGCN!	1	2242
Mva1269I	G!CATTC	1	2335
MvnI	CG!CG	20	60; 651; 1429; 1505; 1742; 2060; 2140; 2415; 2791; 2811; 2835; 2866; 3557; 3858; 4296; 4380; 4443; 4512; 4785; 5366
MvrI	CGAT!CG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MwoI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 714; 1145; 1464; 1505; 1565; 1578; 1622; 1853; 2045; 2096; 2718; 2748; 2775; 2817; 3058; 3130; 3181; 3260; 3482; 3566; 3589; 3728; 3851; 3934; 4201; 4388; 4592; 4791; 5363
NaeI	GCC!GGC	4	1443; 2710; 3993; 4276
NarI	GG!CGCC	1	3491
NciI	CC!SGG	7	657; 658; 1250; 3495; 3655; 4268; 5032
NcoI	C!CATGG	4	360; 677; 3220; 3923
NdeI	CA!TATG	1	234
NdeII	!GATC	26	585; 609; 660; 1040; 1190; 1216; 1460; 1544; 1997; 2148; 3328; 3332; 3351; 3662; 3740; 3821; 3830; 3908; 4284; 4300; 4659; 4671; 4749; 4757; 4768; 4843
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	797
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	833
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	1441; 2708; 3991; 4274
NheI	G!CTAGC	1	591
NlaII	CATG!	28	304; 364; 681; 708; 714; 726; 804; 870; 950; 1161; 1650; 1680; 1875; 2070; 2115; 2921; 3061; 3133; 3224; 3365; 3710; 3896; 3927; 3953; 4309; 4693; 5413; 5464
NlaIV	GGN!NCC	22	467; 647; 655; 662; 732; 792; 1183; 1404; 1989; 2646; 2667; 2679; 2870; 3031; 3103; 3492; 3527; 4375; 4454; 4499; 5342; 5381
NlaCI	CATCACNNNNNNNNNNNNNNNN!	3	2323; 2638; 4230
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 1057; 5302
Nli3877I	CYCGR!G	4	617; 660; 1643; 1685
NmeAIII	GCCGAGNNNNNNNNNNNNNNNN!	2	3280; 3716
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1073; 3245
NmeDI	RCCGGYNNNNNN!	7	678; 1453; 1576; 2720; 3822; 4003; 4286
NmeDI	!NNNNNNNNNNNNRCCGGY	7	653; 1428; 1551; 2695; 3797; 3978; 4261
NmuCI	!GTSAC	6	957; 1387; 1596; 2780; 3611; 3917
NotI	GC!GGCCGC	1	2135
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3593
NsiI	ATGCA!T	3	3063; 3135; 5466
NspI	RCATG!Y	5	708; 3061; 3133; 3896; 5413
NspV	TT!CGAA	2	627; 4173
OliI	CACNN!NNGTG	3	679; 1594; 1771
PabI	GTA!C	16	220; 245; 300; 333; 384; 541; 648; 722; 872; 1124; 1405; 1733; 1844; 1868; 2126; 3798
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3061; 3133; 3896
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	2917; 4689
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	4	900; 1977; 4456; 4559
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	3312
PciI	A!CATGT	1	5409
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3835; 4045
PcsI	WCGNNNN!NNNCGW	10	1319; 1445; 2057; 2114; 3785; 3862; 4105; 4179; 4572; 5090
PctI	GAATGCN!	1	2242
PctI	G!CATTC	1	2335
PdiI	GCC!GGC	4	1443; 2710; 3993; 4276
PdmI	GAANN!NNTTC	1	1660
PfeI	G!AWTC	7	806; 1283; 3976; 4110; 4220; 4257; 5435
Pfl23II	C!GTACG	0	
PfIF1	GACN!NNGTC	2	1393; 3609
PfIMI	CCANNNN!NTGG	3	1275; 1836; 2112
PfoI	T!CCNGGA	5	1010; 1694; 1715; 2075; 4266
PhoI	GG!CC	37	84; 277; 655; 827; 1070; 1105; 1139; 1162; 1184; 1294; 1336; 1487; 1587; 1829; 1885; 1895; 1951; 1988; 2056; 2137; 2457; 2599; 3254; 3260; 3269; 3312; 3399; 3573; 3964; 3991; 4500; 4557; 4590; 4935; 5369; 5387; 5398

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	2	2060; 3872
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	3437; 3692
PleI	GAGTCNNNN!	4	964; 2088; 2542; 2974
PleI	!NNNNNGACTC	6	404; 598; 2136; 2550; 4156; 5033
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2573
PpiI	!NNNNNNNNNGAGNNNNNGTTC	3	1534; 1738; 4703
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	3	1566; 1770; 4735
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2541
PpsI	GAGTCNNNN!	4	964; 2088; 2542; 2974
PpsI	!NNNNNGACTC	6	404; 598; 2136; 2550; 4156; 5033
Ppu10I	A!TGCAT	3	3059; 3131; 5462
Ppu21I	YAC!GTR	3	340; 2607; 3795
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	5409
PshAI	GACNN!NNGTC	1	1309
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2274; 2479
Psp03I	GGWC!C	4	1269; 2046; 4010; 4455
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	25	88; 281; 851; 899; 995; 1010; 1139; 1582; 1592; 1694; 1715; 1769; 1823; 1895; 1976; 2075; 3025; 3080; 3097; 3876; 4455; 4558; 5248; 5261; 5382
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	1	1596
PspGI	!CCWGG	25	88; 281; 851; 899; 995; 1010; 1139; 1582; 1592; 1694; 1715; 1769; 1823; 1895; 1976; 2075; 3025; 3080; 3097; 3876; 4455; 4558; 5248; 5261; 5382
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 647; 655; 662; 732; 792; 1183; 1404; 1989; 2646; 2667; 2679; 2870; 3031; 3103; 3492; 3527; 4375; 4454; 4499; 5342; 5381
PspOMI	G!GGCCC	1	653
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 3221; 4220
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	2	1959; 3623
PspPI	G!GNCC	19	83; 276; 654; 826; 1069; 1161; 1182; 1266; 1586; 1827; 1987; 2043; 2055; 2598; 4007; 4452; 4498; 4556; 4589
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	4	1426; 3044; 3116; 4622
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	4	921; 1349; 2957; 4152
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	4592
PstI	CTGCA!G	1	638
PstNI	CAGNNN!CTG	4	1343; 2093; 4592; 5000
PsuI	R!GATCY	11	585; 609; 660; 1216; 3662; 3908; 4300; 4659; 4671; 4757; 4768
PsyI	GACN!NNGTC	2	1393; 3609
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1947; 2989; 3597
RcaI	T!CATGA	2	2917; 4689
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4006
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	2220
RleAI	!NNNNNNNNNTGTGGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	16	219; 244; 299; 332; 383; 540; 647; 721; 871; 1123; 1404; 1732; 1843; 1867; 2125; 3797
RsaNI	G!TAC	16	218; 243; 298; 331; 382; 539; 646; 720; 870; 1122; 1403; 1731; 1842; 1866; 2124; 3796
RseI	CAYNN!NNRTG	8	365; 679; 709; 1114; 1594; 1651; 1771; 3928
RsrII	CG!GWCCG	1	4007
Rsr2I	CG!GWCCG	1	4007
SacI	GAGCT!C	1	620
SacII	CCGC!GG	2	652; 1743
SaI	G!TCGAC	2	639; 1396
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	3835; 4045
SaqAI	T!TAA	17	7; 695; 920; 2192; 2253; 2374; 2395; 2406; 2418; 2429; 2446; 2544; 2815; 4634; 4648; 4653; 4705
SatI	GC!NGC	43	825; 876; 1020; 1137; 1318; 1425; 1506; 1573; 1743; 1935; 1938; 1945; 2097; 2135; 2138; 2268; 2787; 2809; 2823; 3261; 3400; 3452; 3463; 3553; 3558; 3595; 3636; 3723; 3726; 3729; 3965; 4061; 4102; 4116; 4230; 4569; 4584; 4795; 5001; 5004; 5069; 5212; 5367
Sau96I	G!GNCC	19	83; 276; 654; 826; 1069; 1161; 1182; 1266; 1586; 1827; 1987; 2043; 2055; 2598; 4007; 4452; 4498; 4556; 4589
Sau3AI	!GATC	26	585; 609; 660; 1040; 1190; 1216; 1460; 1544; 1997; 2148; 3328; 3332; 3351; 3662; 3740; 3821; 3830; 3908; 4284; 4300; 4659; 4671; 4749; 4757; 4768; 4843
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	965; 2089; 2543; 2975
SchI	!NNNNNGACTC	6	404; 598; 2136; 2550; 4156; 5033
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	32	90; 283; 657; 658; 853; 901; 997; 1012; 1141; 1250; 1584; 1594; 1696; 1717; 1771; 1825; 1897; 1978; 2077; 3027; 3082; 3099; 3495; 3655; 3878; 4268; 4457; 4560; 5032; 5250; 5263; 5384
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	7	1107; 1175; 1722; 3069; 3141; 3310; 5252
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	2054; 3646; 4131
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	21	620; 657; 733; 760; 793; 1370; 1454; 1484; 1583; 1646; 1976; 2023; 2075; 2682; 3437; 3530; 3604; 3794; 3856; 4566; 5099
SelI	!CGCG	20	58; 649; 1427; 1503; 1740; 2058; 2138; 2413; 2789; 2809; 2833; 2864; 3555; 3856; 4294; 4378; 4441; 4510; 4783; 5364
SetI	ASST!	81	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 692; 719; 815; 865; 886; 1037; 1172; 1190; 1241; 1309; 1313; 1328; 1352; 1397; 1408; 1436; 1469; 1481; 1541; 1574; 1751; 1790; 1838; 1849; 1865; 1904; 1949; 1973; 2018; 2123; 2181; 2202; 2211; 2223; 2272; 2439; 2554; 2566; 2609; 2646; 2696; 2719; 2843; 2991; 3086; 3279; 3392; 3520; 3599; 3610; 3682; 3753; 3797; 4057; 4203; 4247; 4578; 4609; 4668; 4711; 4854; 4875; 4974; 5111; 5126; 5145; 5157; 5201; 5247; 5298
SexAI	A!CCWGGT	1	3080
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	914; 1454; 1625; 1790; 2307; 3070; 3142; 3790; 3854; 4129
SfaNI	!NNNNNNNNNGATGC	8	357; 1067; 1106; 1235; 3449; 3704; 3920; 5312
Sfcl	C!TRYAG	4	634; 2826; 4953; 5144
SfiI	GGCCNNNN!NGGCC	1	3266
SfoI	GGC!GCC	1	3492
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	2	652; 1743
SfuI	TT!CGAA	2	627; 4173

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	226	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 699; 717; 735; 765; 789; 807; 822; 864; 879; 912; 946; 959; 987; 1008; 1023; 1050; 1084; 1105; 1125; 1138; 1152; 1170; 1183; 1200; 1215; 1233; 1254; 1288; 1326; 1349; 1367; 1404; 1430; 1454; 1467; 1480; 1495; 1512; 1527; 1548; 1577; 1590; 1605; 1632; 1651; 1680; 1693; 1707; 1728; 1746; 1770; 1783; 1797; 1818; 1836; 1849; 1875; 1888; 1908; 1923; 1941; 1960; 1974; 1989; 2002; 2028; 2052; 2069; 2088; 2105; 2119; 2151; 2198; 2227; 2269; 2352; 2426; 2510; 2532; 2564; 2601; 2619; 2638; 2653; 2695; 2712; 2729; 2764; 2778; 2795; 2817; 2841; 2865; 2930; 2944; 2982; 2998; 3038; 3051; 3070; 3093; 3110; 3123; 3142; 3172; 3193; 3210; 3233; 3268; 3295; 3326; 3348; 3374; 3396; 3415; 3443; 3479; 3498; 3521; 3535; 3555; 3568; 3582; 3601; 3615; 3634; 3666; 3680; 3693; 3719; 3750; 3763; 3780; 3797; 3811; 3828; 3846; 3861; 3889; 3905; 3924; 3946; 3962; 3985; 4004; 4029; 4048; 4068; 4095; 4119; 4152; 4171; 4199; 4213; 4279; 4303; 4318; 4341; 4362; 4379; 4427; 4454; 4468; 4497; 4521; 4554; 4571; 4591; 4604; 4617; 4675; 4702; 4721; 4751; 4776; 4796; 4810; 4835; 4853; 4890; 4928; 4957; 4985; 4999; 5019; 5034; 5055; 5069; 5088; 5106; 5122; 5162; 5182; 5209; 5227; 5248; 5261; 5274; 5291; 5315; 5338; 5370; 5395; 5422; 5444
SgeI	!NNNNNNNNNNNNCNG	195	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 673; 691; 709; 739; 763; 781; 805; 838; 886; 920; 961; 982; 1024; 1058; 1079; 1099; 1126; 1144; 1165; 1189; 1207; 1228; 1262; 1300; 1323; 1341; 1378; 1404; 1428; 1450; 1469; 1486; 1522; 1551; 1569; 1606; 1625; 1654; 1681; 1702; 1720; 1744; 1771; 1792; 1810; 1849; 1867; 1897; 1915; 1934; 1957; 1976; 2002; 2026; 2043; 2062; 2079; 2098; 2125; 2172; 2201; 2243; 2326; 2400; 2484; 2506; 2538; 2575; 2593; 2612; 2669; 2686; 2703; 2738; 2756; 2776; 2796; 2815; 2839; 2904; 2956; 3012; 3044; 3067; 3084; 3116; 3146; 3167; 3184; 3207; 3242; 3269; 3300; 3322; 3348; 3370; 3389; 3417; 3453; 3472; 3495; 3516; 3534; 3551; 3575; 3608; 3640; 3667; 3693; 3724; 3754; 3771; 3797; 3820; 3841; 3863; 3883; 3903; 3920; 3959; 3978; 4003; 4022; 4042; 4069; 4093; 4126; 4145; 4173; 4195; 4253; 4277; 4296; 4315; 4336; 4353; 4401; 4428; 4448; 4471; 4495; 4528; 4545; 4565; 4591; 4649; 4676; 4695; 4725; 4750; 4770; 4809; 4827; 4864; 4902; 4931; 4959; 4980; 5008; 5029; 5062; 5080; 5136; 5156; 5183; 5201; 5222; 5248; 5265; 5289; 5312; 5344; 5369; 5396; 5418; 5447
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	2	652; 1743
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2638; 4425; 5218
SimI	!GACCC	6	106; 1736; 1913; 3919; 4487; 4735
SinI	G!GWCC	4	1266; 2043; 4007; 4452
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	1	658
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	8	365; 679; 709; 1114; 1594; 1651; 1771; 3928
SmiI	C!TYRAG	8	613; 619; 1240; 2373; 3882; 4764; 5041; 5303
SmoI	C!TYRAG	8	613; 619; 1240; 2373; 3882; 4764; 5041; 5303
SmuI	CCCGCNNNN!	14	93; 119; 286; 1134; 1236; 1639; 1747; 1924; 2065; 2813; 3168; 3189; 4385; 4517
SmuI	!NNNNNNGCGGG	7	644; 1171; 2744; 3614; 4151; 4289; 4436
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3061; 3133; 3896
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 629; 2241; 2305; 2383; 2409; 2420; 3067; 3139; 3231; 4649
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	3312

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	C!CGC	44	58; 86; 98; 112; 279; 507; 589; 649; 989; 1127; 1229; 1632; 1740; 1779; 1917; 2030; 2046; 2058; 2127; 2138; 2806; 2809; 2823; 2913; 3161; 3173; 3182; 3194; 3204; 3215; 3261; 3400; 3463; 3965; 4010; 4076; 4102; 4227; 4230; 4378; 4510; 4817; 4961; 5457
SsiI	G!CGG	35	370; 403; 528; 651; 824; 1136; 1178; 1385; 1424; 1429; 1505; 1742; 1934; 1937; 2134; 2751; 2778; 2866; 2976; 3557; 3621; 3722; 3725; 4005; 4060; 4158; 4296; 4443; 4583; 4826; 5071; 5192; 5211; 5338; 5366
SspI	AAT!ATT	2	2399; 2952
SspDI	G!GCGCC	1	3490
SspD5I	GGTGANNNNNNNN!	10	376; 693; 1062; 1399; 1608; 1761; 1785; 1914; 4562; 4678
SspD5I	!NNNNNNNNNTCACC	3	950; 2607; 3668
SstI	GAGCT!C	1	620
SstII	CCG!GG	2	652; 1743
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	995
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	30	92; 118; 285; 663; 917; 1133; 1235; 1256; 1460; 1583; 1638; 1646; 1688; 1746; 1883; 1923; 1997; 2064; 2690; 2812; 3167; 3188; 3501; 3904; 4043; 4114; 4384; 4516; 4746; 5184
Sth132I	!NNNNNNNNCCGGG	21	15; 407; 470; 643; 966; 1170; 2691; 2743; 2844; 3571; 3613; 3646; 4150; 4259; 4288; 4435; 4539; 4570; 5023; 5067; 5275
Sth302II	CC!GG	23	602; 658; 668; 1251; 1419; 1443; 1566; 2710; 3397; 3474; 3496; 3524; 3655; 3745; 3812; 3993; 4268; 4276; 4368; 4842; 5032; 5058; 5205
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	4	3359; 3816; 3841; 4295
StsI	!NNNNNNNNNNNNNNNCATCC	8	746; 834; 891; 1046; 1602; 1677; 1806; 3163
StuI	AGG!CCT	1	3312
StyI	C!CWWGG	6	360; 677; 3220; 3313; 3923; 4328
StyD4I	!CCNGG	32	88; 281; 655; 656; 851; 899; 995; 1010; 1139; 1248; 1582; 1592; 1694; 1715; 1769; 1823; 1895; 1976; 2075; 3025; 3080; 3097; 3493; 3653; 3876; 4266; 4455; 4558; 5030; 5248; 5261; 5382
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 645; 735; 1402; 2582; 3871; 3987; 4095; 4418; 4909; 5379; 5450
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 1037; 1313; 1481; 1865; 1973; 2554; 2566; 2609; 2719; 3610; 3797; 4578; 4711
TaqI	T!CGA	22	614; 627; 640; 818; 845; 1313; 1397; 1463; 1757; 1784; 1928; 2640; 3331; 3604; 3760; 3784; 3820; 3982; 4173; 4218; 4473; 5311
TaqII	GACCGANNNNNNNNNN!	3	2511; 3528; 4196
TaqII	!NNNNNNNNNTCGGTC	1	4440
TaqII	CACCCANNNNNNNNNN!	3	808; 913; 2119
TaqII	!NNNNNNNNNTGGGTG	3	172; 3395; 3987
TasI	!AATT	11	18; 629; 2241; 2305; 2383; 2409; 2420; 3067; 3139; 3231; 4649
TatI	W!GTACW	8	217; 297; 330; 381; 719; 1730; 1841; 1865
TauI	GCSG!C	24	827; 1139; 1427; 1508; 1745; 1937; 1940; 2137; 2140; 2811; 2825; 3263; 3402; 3465; 3560; 3725; 3728; 3967; 4063; 4104; 4232; 4586; 5214; 5369
TfiI	G!AWTC	7	806; 1283; 3976; 4110; 4220; 4257; 5435
TliI	C!TCGAG	1	613
TruII	T!TAA	17	7; 695; 920; 2192; 2253; 2374; 2395; 2406; 2418; 2429; 2446; 2544; 2815; 4634; 4648; 4653; 4705
Tru9I	T!TAA	17	7; 695; 920; 2192; 2253; 2374; 2395; 2406; 2418; 2429; 2446; 2544; 2815; 4634; 4648; 4653; 4705
TscAI	CASTGNN!	6	1627; 2337; 3620; 4730; 5001; 5014
TseI	G!CWGC	19	875; 1019; 1317; 1572; 1944; 2096; 2267; 2786; 3451; 3552; 3594; 3635; 3728; 4115; 4568; 4794; 5000; 5003; 5068
TsoI	TARCCANNNNNNNNNN!	2	2463; 2810
TsoI	!NNNNNNNNNTGGYTA	3	844; 2268; 4020
Tsp45I	!GTSAC	6	957; 1387; 1596; 2780; 3611; 3917
Tsp509I	!AATT	11	18; 629; 2241; 2305; 2383; 2409; 2420; 3067; 3139; 3231; 4649
TspDTI	ATGAANNNNNNNNNN!	5	727; 1663; 2249; 3550; 4254
TspDTI	!NNNNNNNNNTTCAT	7	26; 855; 876; 1542; 3968; 4424; 4631
TspEI	!AATT	11	18; 629; 2241; 2305; 2383; 2409; 2420; 3067; 3139; 3231; 4649
TspGWI	ACGGANNNNNNNNNN!	1	4366

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspGI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	656
TspRI	CASTGNN!	6	1627; 2337; 3620; 4730; 5001; 5014
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	2	1393; 3609
Tth111II	CAARCANNNNNNNNNN!	1	4818
Tth111II	!NNNNNNNNNTGYTTG	3	3926; 4786; 4825
UnbI	!GGNCC	19	82; 275; 653; 825; 1068; 1160; 1181; 1265; 1585; 1826; 1986; 2042; 2054; 2597; 4006; 4451; 4497; 4555; 4588
Van9II	CCANNNN!NTGG	3	1275; 1836; 2112
Vha464I	C!TTAAG	1	2373
VneI	G!TGCAC	3	756; 1480; 5095
VpaK11AI	!GGWCC	4	1265; 2042; 4006; 4451
VpaK11BI	G!GWCC	4	1266; 2043; 4007; 4452
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	1	1714
XapI	R!AATY	4	629; 2305; 2409; 2420
XbaI	T!CTAGA	1	2145
XceI	RCATG!Y	5	708; 3061; 3133; 3896; 5413
XcmI	CCANNNN!NNNTGG	2	1893; 1974
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	11	585; 609; 660; 1216; 3662; 3908; 4300; 4659; 4671; 4757; 4768
XmaI	C!CCGGG	1	656
XmaJI	C!CTAGG	2	3313; 4328
XmiI	GT!MKAC	3	640; 1256; 1397
XmnI	GAANN!NNTTC	1	1660
XspI	C!TAG	9	592; 1355; 2146; 2340; 2758; 3314; 4329; 4663; 4916
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3063; 3135; 5466