

## pCop-Green-B vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	1	49
AarI	CACCTGCNNNN!	1	560
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	2	1883; 2296
AatI	AGG!CCT	0	
AatII	GACGT!C	1	4003
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1960
AccII	CG!CG	11	455; 611; 716; 1789; 1791; 1894; 2235; 2816; 3146; 3639; 3971
AccIII	T!CCGGA	1	1166
Acc16I	TGC!GCA	1	3303
Acc36I	ACCTGCNNNN!	2	287; 560
Acc36I	!NNNNNNNNGCAGGT	0	
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	7	163; 208; 256; 319; 481; 1636; 3029
AccB7I	CCANNNN!NTGG	2	294; 1402
AccBSI	CCG!CTC	1	1773
AccBSI	GAG!CGG	4	36; 68; 2121; 3922
AceIII	CAGCTCNNNNNNN!	3	1840; 2140; 3380
AceIII	!NNNNNNNNNNGAGCTG	5	175; 712; 730; 1185; 1767
Acil	C!CGC	31	134; 153; 225; 387; 438; 453; 528; 594; 711; 714; 886; 1148; 1512; 1768; 1771; 2028; 2054; 2071; 2233; 2261; 2388; 2407; 2528; 2773; 3144; 3235; 3472; 3637; 3714; 3823; 3969
Acil	G!CGG	23	36; 68; 197; 200; 332; 371; 410; 617; 1606; 1861; 1900; 1910; 1952; 1977; 2015; 2114; 2121; 2142; 2638; 2782; 3426; 3593; 3922
AcII	AA!CGTT	3	1257; 3307; 3680
AcIWI	GGATCNNNN!	4	129; 2837; 2934; 3714
AcIWI	!NNNNNGATCC	7	122; 827; 2749; 2835; 2933; 3397; 3718
AcoI	Y!GGCCR	3	450; 1435; 3469
AcsI	R!AATY	2	17; 1170
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	2	816; 2736
AcuI	!NNNNNNNNNNNNNNCTTCAG	4	252; 414; 585; 3748
AcvI	CAC!GTG	2	291; 423
AcyI	GR!CGYC	3	257; 3618; 4000
AdeI	CACNNN!GTG	0	
AfaI	GT!AC	6	400; 760; 1049; 1587; 1996; 3561
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	10	219; 294; 444; 717; 1402; 1839; 2210; 2228; 2394; 2673
AfII	C!TTAAG	0	
AfIII	A!CRYGT	1	2188
AgeI	A!CCGGT	0	
AgsI	TTS!AA	9	59; 471; 657; 774; 2657; 3859; 3882; 3892; 3936
AhdI	GACNNN!NNGTC	1	3081
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	6	1345; 1401; 1649; 2214; 2335; 2348
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	0	
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	0	
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	0	
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AloI	!NNNNNNNGGANNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	0	
AluI	AG!CT	28	189; 428; 434; 587; 629; 726; 744; 800; 809; 814; 918; 922; 942; 951; 1070; 1199; 1670; 1781; 1830; 1849; 2130; 2356; 2492; 2749; 3069; 3270; 3370; 3433
AluBI	AG!CT	28	189; 428; 434; 587; 629; 726; 744; 800; 809; 814; 918; 922; 942; 951; 1070; 1199; 1670; 1781; 1830; 1849; 2130; 2356; 2492; 2749; 3069; 3270; 3370; 3433
AlwI	GGATCNNNN!	4	129; 2837; 2934; 3714
AlwI	!NNNNNGATCC	7	122; 827; 2749; 2835; 2933; 3397; 3718
Alw21I	GWGCW!C	6	250; 551; 2008; 2506; 3667; 3752
Alw26I	GTCTCN!	2	1394; 3918
Alw26I	!NNNNNGAGAC	2	1831; 3142
Alw44I	G!TGCAC	3	2004; 2502; 3748
AlwNI	CAGNNN!CTG	1	2604
Ama87I	C!YCGRG	3	1; 214; 493
Aor13HI	T!CCGGA	1	1166
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	1	697
ApaBI	GCANNNNN!TGC	1	2013
ApaLI	G!TGCAC	3	2004; 2502; 3748
ApeKI	G!CWGC	16	417; 530; 584; 726; 1781; 1827; 1924; 2093; 2111; 2530; 2595; 2598; 2804; 3069; 3132; 3498
ApoI	R!AATTY	2	17; 1170
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	2312
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	0	
AquI	GCCGNACNNNNNNNNNNNNNNNNNN!	0	
AquI	!NNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	2	125; 746
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	2	471; 2056
ArsI	GACNNNNNTTYGNNNNNNNNNN!	1	1469
ArsI	!NNNNNCCRAANNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	1	1437
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	3253
Asi256I	G!ATC	21	122; 128; 144; 459; 507; 522; 783; 833; 2755; 2830; 2841; 2849; 2927; 2939; 3044; 3385; 3403; 3449; 3707; 3724; 3760
AsiGI	A!CCGGT	0	
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	1935
Asp700I	GAANN!NNTTC	2	346; 3680
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	0	
AspEI	GACNN!NNGTC	1	3081
AspLEI	GCG!C	17	259; 611; 664; 1791; 1894; 1924; 2065; 2098; 2368; 2435; 2535; 2709; 2818; 3211; 3304; 3641; 3973
AspS9I	G!GNCC	9	222; 693; 694; 1712; 3123; 3202; 3219; 3441; 4057
AssI	AGT!ACT	2	1587; 3561
AsuI	TT!CGAA	0	
AsuC2I	CC!SGG	6	890; 1834; 1869; 2568; 3264; 3615
AsuHPI	GGTGANNNNNNNN!	8	917; 1206; 1350; 1418; 1752; 1810; 3567; 3808
AsuHPI	!NNNNNNNTCACC	9	150; 504; 1212; 1406; 1460; 2924; 3151; 3773; 4062
AsuNHI	G!CTAGC	1	918
AvaI	C!YCGRG	3	1; 214; 493
AvaII	G!GWCC	2	3219; 3441
AviII	TGC!GCA	1	3303
AvrII	C!CTAGG	0	
AxyI	CC!TNAGG	0	
BaeI	ACNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BaeGI	GKGC!C	7	211; 484; 697; 1641; 2008; 2506; 3752
BalI	TGG!CCA	1	1437
BamHI	G!GATCC	1	127
BanI	G!GYRCC	7	163; 208; 256; 319; 481; 1636; 3029
BanII	GRGCY!C	1	697
BanIII	AT!CGAT	0	
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	2	294; 1402
BauI	C!ACGAG	1	4052
BauI	C!TCGTG	2	2361; 3745
BbeI	GGCG!C	1	260
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	1	4054
BbrPI	CAC!GTG	2	291; 423
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNNGTCTTC	1	4059
BbuI	GCATG!C	0	
BbvI	GCAGCNNNNNNNN!	7	542; 596; 1839; 1936; 2607; 2816; 3510
BbvI	!NNNNNNNNNNNGCTGC	8	404; 713; 1768; 2080; 2098; 2517; 3056; 3119
Bbv12I	GWGCW!C	6	250; 551; 2008; 2506; 3667; 3752
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	367; 673; 864; 3125; 3249; 3536
BccI	!NNNNNGATGG	2	288; 1539
BceAI	ACGGCNNNNNNNNNN!	7	189; 318; 384; 423; 630; 1096; 2690
BceAI	!NNNNNNNNNNNNNGCCGT	1	1521
Bcefl	ACGGCNNNNNNNNNN!	7	189; 318; 384; 423; 630; 1096; 2690
Bcefl	!NNNNNNNNNNNNNGCCGT	1	1522
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	3620
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNTGC	1	3586
BciVI	GTATCCNNNNNN!	0	
BciVI	!NNNNNGGATAC	2	2391; 3918
BclI	T!GATCA	0	
BcnI	CC!SGG	6	890; 1834; 1869; 2568; 3264; 3615
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	1045; 2293
BdaI	!NNNNNNNNNNTGANNNNNTCA	2	1011; 2259
Bfal	C!TAG	6	919; 1667; 1776; 2683; 2936; 3271
BfiI	ACTGGGNNNNN!	1	1719
BfiI	!NNNNCCCAGT	2	1929; 3121
BfmI	C!TRYAG	5	624; 682; 2453; 2644; 3322
BfoI	RGCGC!Y	4	260; 665; 2066; 2436
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	0	
BfuI	!NNNNNGGATAC	2	2391; 3918
BfuAI	ACCTGCNNNN!	2	287; 560
BfuAI	!NNNNNNNNNGCAGGT	0	
BfuCI	!GATC	21	121; 127; 143; 458; 506; 521; 782; 832; 2754; 2829; 2840; 2848; 2926; 2938; 3043; 3384; 3402; 3448; 3706; 3723; 3759
BglI	GCCNNNN!NGGC	1	3201
BglII	A!GATCT	0	
BisI	GC!NGC	34	153; 198; 225; 333; 372; 411; 418; 453; 531; 585; 618; 714; 727; 886; 1512; 1771; 1782; 1828; 1925; 1978; 2094; 2115; 2233; 2388; 2531; 2596; 2599; 2805; 3070; 3133; 3472; 3499; 3594; 3823
BlnI	C!CTAGG	0	
BlpI	GC!TNAGC	2	283; 810
BlsI	GCN!GC	34	154; 199; 226; 334; 373; 412; 419; 454; 532; 586; 619; 715; 728; 887; 1513; 1772; 1783; 1829; 1926; 1979; 2095; 2116; 2234; 2389; 2532; 2597; 2600; 2806; 3071; 3134; 3473; 3500; 3595; 3824

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BmcAI	AGT!ACT	2	1587; 3561
Bme18I	G!GWCC	2	3219; 3441
Bme1390I	CC!NGG	12	890; 1347; 1403; 1651; 1834; 1869; 2216; 2337; 2350; 2568; 3264; 3615
BmeRI	GACNNN!NNGTC	1	3081
BmeT110I	C!YCGRG	3	1; 214; 493
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	9	223; 694; 695; 1713; 3124; 3203; 3220; 3442; 4058
BmiI	GGN!NCC	16	129; 165; 210; 258; 321; 483; 694; 696; 1638; 2220; 2259; 3031; 3125; 3166; 3377; 3967
BmrI	ACTGGGNNNNN!	1	1719
BmrI	!NNNNCCCAGT	2	1929; 3121
BmrFI	CC!NGG	12	890; 1347; 1403; 1651; 1834; 1869; 2216; 2337; 2350; 2568; 3264; 3615
BmsI	GCATCNNNNN!	11	164; 398; 686; 758; 1013; 1686; 1989; 2065; 2285; 3337; 3777
BmsI	!NNNNNNNNNGATGC	4	1498; 1854; 2025; 3528
BmtI	GCTAG!C	1	922
BmuI	ACTGGGNNNNN!	1	1719
BmuI	!NNNNCCCAGT	2	1929; 3121
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	1	4059
BpI	GAGNNNNNCTCNNNNNNNNNNNNN!	0	
BpI	!NNNNNNNGAGNNNNNCTC	0	
BpmI	CTGGAGNNNNNNNNNNNNNNN!	1	1292
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	3151
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	1	943
Bpu14I	TT!CGAA	0	
Bpu1102I	GC!TNAGC	2	283; 810
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	1	4059
BpuEI	CTTGAGNNNNNNNNNNNNNNN!	2	1692; 2577
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	2279; 2818; 3686
BpuMI	CC!SGG	6	890; 1834; 1869; 2568; 3264; 3615
BpvUI	CGAT!CG	2	785; 3451
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3142
Bsa29I	AT!CGAT	0	
BsaAI	YAC!GTR	3	291; 423; 1942
BsaBI	GATNN!NNATC	1	126
BsaHI	GR!CGYC	3	257; 3618; 4000
BsaJI	C!CNNGG	9	251; 494; 542; 560; 1401; 1402; 1471; 1650; 2348
BsaMI	GAATGCN!	2	1163; 1570
BsaMI	G!CATTC	1	787
BsaWI	W!CCGGW	4	1166; 2394; 2541; 3372
BsaXI	ACNNNNNCTCCNNNNNNNNN!	0	
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	0	
BsbI	CAACACNNNNNNNNNNNNNNNNN!	2	407; 761
BsbI	!NNNNNNNNNNNNNNNNNGTGTTG	1	1884
Bsc4I	CCNNNNN!NNGG	10	219; 294; 444; 717; 1402; 1839; 2210; 2228; 2394; 2673
BscAI	GCATCNNNN!	11	163; 397; 685; 757; 1012; 1685; 1988; 2064; 2284; 3336; 3776
BscAI	!NNNNNNGATGC	4	1501; 1857; 2028; 3531
Bse1I	ACTGGN!	6	977; 1714; 1968; 2596; 2609; 3557
Bse1I	C!CAGT	8	836; 1417; 1935; 2721; 3127; 3245; 3288; 3727
Bse8I	GATNN!NNATC	1	126
Bse21I	CC!TNAGG	0	
Bse118I	R!CCGGY	4	160; 448; 484; 3161
BseAI	T!CCGGA	1	1166
BseBI	CC!WGG	6	1347; 1403; 1651; 2216; 2337; 2350
BseCI	AT!CGAT	0	
BseDI	C!CNNGG	9	251; 494; 542; 560; 1401; 1402; 1471; 1650; 2348

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bse3DI	GCAATGNN!	2	1189; 3142
Bse3DI	!CATTGC	1	3316
BseGI	GGATGNN!	1	1869
BseGI	!CATCC	7	524; 665; 677; 1163; 3060; 3241; 3528
BseJI	GATNN!NNATC	1	126
BseLI	CCNNNNN!NNGG	10	219; 294; 444; 717; 1402; 1839; 2210; 2228; 2394; 2673
BseMI	GCAATGNN!	2	1189; 3142
BseMI	!CATTGC	1	3316
BseMII	CTCAGNNNNNNNNNN!	6	861; 1405; 1711; 2477; 2886; 3052
BseMII	!NNNNNNNNCTGAG	5	274; 801; 1744; 1989; 3569
BseNI	ACTGGN!	6	977; 1714; 1968; 2596; 2609; 3557
BseNI	C!CAGT	8	836; 1417; 1935; 2721; 3127; 3245; 3288; 3727
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	115; 736
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI:C	7	211; 484; 697; 1641; 2008; 2506; 3752
BseXI	GCAGCNNNNNNNN!	7	542; 596; 1839; 1936; 2607; 2816; 3510
BseXI	!NNNNNNNNNNNGCTGC	8	404; 713; 1768; 2080; 2098; 2517; 3056; 3119
BseX3I	C!GGCCG	1	450
BseYI	C!CCAGC	2	328; 673
BseYI	G!CTGGG	2	744; 2492
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	4	337; 403; 538; 712
Bsh1236I	CG!CG	11	455; 611; 716; 1789; 1791; 1894; 2235; 2816; 3146; 3639; 3971
Bsh1285I	CGRY!CG	5	453; 785; 2528; 3451; 3600
BshFI	GG!CC	17	224; 448; 452; 695; 1083; 1128; 1350; 1437; 1714; 2203; 2214; 2232; 2666; 3124; 3204; 3471; 4058
BshNI	G!GYRCC	7	163; 208; 256; 319; 481; 1636; 3029
BshTI	A!CCGGT	0	
BshVI	AT!CGAT	0	
BsiEI	CGRY!CG	5	453; 785; 2528; 3451; 3600
BsiHKAI	GWGCW!C	6	250; 551; 2008; 2506; 3667; 3752
BsiHKCI	C!YCGRG	3	1; 214; 493
BsiSI	C!CGG	18	161; 449; 485; 889; 1125; 1167; 1295; 1834; 1868; 2395; 2542; 2568; 2758; 3162; 3196; 3263; 3373; 3615
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	10	219; 294; 444; 717; 1402; 1839; 2210; 2228; 2394; 2673
BsIFI	GGGACNNNNNNNNNN!	0	
BsIFI	!NNNNNNNNNNNNNGTCCC	0	
BsmI	GAATGCN!	2	1163; 1570
BsmI	G!CATTC	1	787
BsmAI	GTCTCN!	2	1394; 3918
BsmAI	!NNNNNGAGAC	2	1831; 3142
BsmBI	CGTCTCN!	1	1394
BsmBI	!NNNNNGAGACG	1	1831
BsmFI	GGGACNNNNNNNNNN!	0	
BsmFI	!NNNNNNNNNNNNNGTCCC	0	
BsnI	GG!CC	17	224; 448; 452; 695; 1083; 1128; 1350; 1437; 1714; 2203; 2214; 2232; 2666; 3124; 3204; 3471; 4058
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3142
BsoBI	C!YCGRG	3	1; 214; 493
Bsp13I	T!CCGGA	1	1166
Bsp19I	C!CATGG	2	560; 1471
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	2713; 2891
Bsp24I	!NNNNNNCCANNNNNGTC	1	3985
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	1	4017
Bsp24I	!NNNNNNNGACNNNNNTGG	2	2681; 2859
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	0	
Bsp120I	G!GGCCC	1	693
Bsp143I	!GATC	21	121; 127; 143; 458; 506; 521; 782; 832; 2754; 2829; 2840; 2848; 2926; 2938; 3043; 3384; 3402; 3448; 3706; 3723; 3759
Bsp1286I	GDGCH!C	10	211; 250; 484; 551; 697; 1641; 2008; 2506; 3667; 3752
Bsp1407I	T!GTACA	0	

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Bsp1720I	GC!TNAGC	2	283; 810
BspACI	C!CGC	31	134; 153; 225; 387; 438; 453; 528; 594; 711; 714; 886; 1148; 1512; 1768; 1771; 2028; 2054; 2071; 2233; 2261; 2388; 2407; 2528; 2773; 3144; 3235; 3472; 3637; 3714; 3823; 3969
BspACI	G!CGG	23	36; 68; 197; 200; 332; 371; 410; 617; 1606; 1861; 1900; 1910; 1952; 1977; 2015; 2114; 2121; 2142; 2638; 2782; 3426; 3593; 3922
BspCNI	CTCAGNNNNNNNN!	6	860; 1404; 1710; 2476; 2885; 3051
BspCNI	!NNNNNNNCTGAG	5	275; 802; 1745; 1990; 3570
BspDI	AT!CGAT	0	
BspD6I	GACTCNNNN!	4	827; 1669; 2096; 3084
BspD6I	!NNNNNNGAGTC	1	2552
BspEI	T!CCGGA	1	1166
BspFNI	CG!CG	11	455; 611; 716; 1789; 1791; 1894; 2235; 2816; 3146; 3639; 3971
BspHI	T!CATGA	3	2908; 3916; 4021
BspLI	GGN!NCC	16	129; 165; 210; 258; 321; 483; 694; 696; 1638; 2220; 2259; 3031; 3125; 3166; 3377; 3967
BspMI	ACCTGCNNNN!	2	287; 560
BspMI	!NNNNNNNNGCAGGT	0	
BspOI	GCTAG!C	1	922
BspPI	GGATCNNNN!	4	129; 2837; 2934; 3714
BspPI	!NNNNNGATCC	7	122; 827; 2749; 2835; 2933; 3397; 3718
BspQI	GCTCTCN!	1	2072
BspQI	!NNNNGAAGAGC	1	238
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	0	
BspT107I	G!GYRCC	7	163; 208; 256; 319; 481; 1636; 3029
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3142
BsrI	ACTGGN!	6	977; 1714; 1968; 2596; 2609; 3557
BsrI	C!CAGT	8	836; 1417; 1935; 2721; 3127; 3245; 3288; 3727
BsrBI	CCG!CTC	1	1773
BsrBI	GAG!CGG	4	36; 68; 2121; 3922
BsrDI	GCAATGNN!	2	1189; 3142
BsrDI	!CATTGC	1	3316
BsrFI	R!CCGGY	4	160; 448; 484; 3161
BsrGI	T!GTACA	0	
BsrSI	ACTGGN!	6	977; 1714; 1968; 2596; 2609; 3557
BsrSI	C!CAGT	8	836; 1417; 1935; 2721; 3127; 3245; 3288; 3727
BssAI	R!CCGGY	4	160; 448; 484; 3161
BssECI	C!CNNGG	9	251; 494; 542; 560; 1401; 1402; 1471; 1650; 2348
BssHII	G!CGCGC	0	
BssKI	!CCNGG	12	888; 1345; 1401; 1649; 1832; 1867; 2214; 2335; 2348; 2566; 3262; 3613
BssMI	!GATC	21	121; 127; 143; 458; 506; 521; 782; 832; 2754; 2829; 2840; 2848; 2926; 2938; 3043; 3384; 3402; 3448; 3706; 3723; 3759
BssNI	GR!CGYC	3	257; 3618; 4000
BssNAI	GTA!TAC	1	1961
BssSI	C!ACGAG	1	4052
BssSI	C!TCGTG	2	2361; 3745
BssTII	C!CWWGG	3	251; 560; 1471
Bst6I	CTCTCN!	2	2072; 3876
Bst6I	!NNNNGAAGAG	1	238
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	1	1961
BstACI	GR!CGYC	3	257; 3618; 4000
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	1	2012
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	0	
Bst2BI	C!ACGAG	1	4052
Bst2BI	C!TCGTG	2	2361; 3745
BstBAI	YAC!GTR	3	291; 423; 1942
Bst4CI	ACN!GT	15	543; 986; 1064; 1097; 1194; 1235; 1338; 1585; 1807; 1842; 2152; 2223; 2693; 3006; 3521

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstC8I	GCN!NGC	14	356; 415; 450; 594; 607; 767; 920; 1148; 1516; 2119; 2205; 2242; 2802; 3193
BstDEI	C!TNAG	13	283; 810; 847; 943; 1391; 1697; 1753; 1998; 2463; 2872; 3038; 3578; 4004
BstDSI	C!CRYGG	3	542; 560; 1471
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	1	1869
BstF5I	!CATCC	7	524; 665; 677; 1163; 3060; 3241; 3528
BstFNI	CG!CG	11	455; 611; 716; 1789; 1791; 1894; 2235; 2816; 3146; 3639; 3971
BstH2I	RGCGC!Y	4	260; 665; 2066; 2436
BstHHI	GCG!C	17	259; 611; 664; 1791; 1894; 1924; 2065; 2098; 2368; 2435; 2535; 2709; 2818; 3211; 3304; 3641; 3973
BstKTI	GAT!C	21	124; 130; 146; 461; 509; 524; 785; 835; 2757; 2832; 2843; 2851; 2929; 2941; 3046; 3387; 3405; 3451; 3709; 3726; 3762
BstMAI	GTCTCN!	2	1394; 3918
BstMAI	!NNNNNGAGAC	2	1831; 3142
BstMBI	!GATC	21	121; 127; 143; 458; 506; 521; 782; 832; 2754; 2829; 2840; 2848; 2926; 2938; 3043; 3384; 3402; 3448; 3706; 3723; 3759
BstMCI	CGRY!CG	5	453; 785; 2528; 3451; 3600
BstMWI	GCNNNNN!NNGC	17	33; 161; 206; 254; 461; 593; 617; 806; 924; 948; 1511; 2012; 2062; 2127; 2241; 2813; 3201
BstNI	CC!WGG	6	1347; 1403; 1651; 2216; 2337; 2350
BstNSI	RCATG!Y	3	651; 1827; 2192
BstOI	CC!WGG	6	1347; 1403; 1651; 2216; 2337; 2350
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	12	888; 1345; 1401; 1649; 1832; 1867; 2214; 2335; 2348; 2566; 3262; 3613
BstSFI	C!TRYAG	5	624; 682; 2453; 2644; 3322
BstSLI	GKGC!C	7	211; 484; 697; 1641; 2008; 2506; 3752
BstSNI	TAC!GTA	0	
BstUI	CG!CG	11	455; 611; 716; 1789; 1791; 1894; 2235; 2816; 3146; 3639; 3971
Bst2UI	CC!WGG	6	1347; 1403; 1651; 2216; 2337; 2350
BstVII	GCAGC!NNNNNNN!	7	542; 596; 1839; 1936; 2607; 2816; 3510
BstVII	!NNNNNNNNNNNGCTGC	8	404; 713; 1768; 2080; 2098; 2517; 3056; 3119
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	1	4059
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	8	127; 832; 2829; 2840; 2926; 2938; 3706; 3723
BstYI	R!GATCY	8	127; 832; 2829; 2840; 2926; 2938; 3706; 3723
BstZI	C!GGCCG	1	450
BstZ17I	GTA!TAC	1	1961
BsuI	GTATCCNNNNNN!	0	
BsuI	!NNNNNNGGATAC	2	2391; 3918
Bsu15I	AT!CGAT	0	
Bsu36I	CC!TNAGG	0	
BsuRI	GG!CC	17	224; 448; 452; 695; 1083; 1128; 1350; 1437; 1714; 2203; 2214; 2232; 2666; 3124; 3204; 3471; 4058
BsuTUI	AT!CGAT	0	
BtgI	C!CRYGG	3	542; 560; 1471
BtgZI	GCGATGNNNNNNNNN!	1	1606
BtgZI	!NNNNNNNNNNNNNCATCGC	1	1249
BthCI	GCNG!C	34	155; 200; 227; 335; 374; 413; 420; 455; 533; 587; 620; 716; 729; 888; 1514; 1773; 1784; 1830; 1927; 1980; 2096; 2117; 2235; 2390; 2533; 2598; 2601; 2807; 3072; 3135; 3474; 3501; 3596; 3825
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	1	3481
BtsI	!CACTGC	1	3501
BtsCI	GGATGNN!	1	1869
BtsCI	!CATCC	7	524; 665; 677; 1163; 3060; 3241; 3528
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	287; 560
BveI	!NNNNNNNNGCAGGT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cac8I	GCN!NGC	14	356; 415; 450; 594; 607; 767; 920; 1148; 1516; 2119; 2205; 2242; 2802; 3193
CaiI	CAGNNN!CTG	1	2604
CciI	T!CATGA	3	2908; 3916; 4021
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	393; 753; 1008; 1267; 3332
CdiI	C!GATG	2	1592; 3733
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	2	225; 1977
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	1	2240
CelII	GC!TNAGC	2	283; 810
CfoI	GCG!C	17	259; 611; 664; 1791; 1894; 1924; 2065; 2098; 2368; 2435; 2535; 2709; 2818; 3211; 3304; 3641; 3973
CfrI	Y!GGCCR	3	450; 1435; 3469
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	4	160; 448; 484; 3161
Cfr13I	G!GNCC	9	222; 693; 694; 1712; 3123; 3202; 3219; 3441; 4057
Cfr42I	CCGC!GG	0	
ChaI	GATC!	21	125; 131; 147; 462; 510; 525; 786; 836; 2758; 2833; 2844; 2852; 2930; 2942; 3047; 3388; 3406; 3452; 3710; 3727; 3763
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	2034; 2240; 2795; 4018
CjeI	!NNNNNNNNNACNNNNNNNTGG	4	843; 2681; 2759; 2859
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	4	877; 2715; 2793; 2893
CjeI	!NNNNNNNNCCANNNNNNGT	4	2000; 2206; 2761; 3984
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	2	2746; 4018
CjePI	!NNNNNNNNGANNNNNNNTGG	4	2681; 2859; 2979; 3451
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	4	2714; 2892; 3012; 3484
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	2713; 3985
Clal	AT!CGAT	0	
CpoI	CG!GWCCG	0	
CseI	GACGCNNNNN!	2	2299; 2877
CseI	!NNNNNNNNNNNGCGTC	2	1883; 3607
CsiI	A!CCWGGT	0	
CspI	CG!GWCCG	0	
Csp6I	G!TAC	6	399; 759; 1048; 1586; 1995; 3560
Csp45I	TT!CGAA	0	
CspAI	A!CCGGT	0	
CspCI	CAANNNNNGTGGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2067
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	1	3415
CviAII	C!ATG	19	138; 228; 561; 648; 699; 1242; 1472; 1533; 1554; 1824; 1929; 2189; 2909; 3400; 3410; 3488; 3524; 3917; 4022
CviJI	RG!CY	73	189; 224; 272; 287; 299; 305; 335; 374; 428; 434; 448; 452; 488; 587; 605; 620; 629; 644; 695; 726; 744; 800; 809; 814; 918; 922; 942; 951; 1070; 1083; 1128; 1199; 1350; 1395; 1437; 1549; 1670; 1696; 1714; 1781; 1830; 1849; 1882; 1927; 1967; 2111; 2130; 2203; 2214; 2232; 2258; 2356; 2492; 2497; 2522; 2601; 2666; 2677; 2720; 2749; 3069; 3112; 3124; 3165; 3191; 3195; 3204; 3270; 3360; 3370; 3433; 3471; 4058
CviKI-1	RG!CY	73	189; 224; 272; 287; 299; 305; 335; 374; 428; 434; 448; 452; 488; 587; 605; 620; 629; 644; 695; 726; 744; 800; 809; 814; 918; 922; 942; 951; 1070; 1083; 1128; 1199; 1350; 1395; 1437; 1549; 1670; 1696; 1714; 1781; 1830; 1849; 1882; 1927; 1967; 2111; 2130; 2203; 2214; 2232; 2258; 2356; 2492; 2497; 2522; 2601; 2666; 2677; 2720; 2749; 3069; 3112; 3124; 3165; 3191; 3195; 3204; 3270; 3360; 3370; 3433; 3471; 4058
CviQI	G!TAC	6	399; 759; 1048; 1586; 1995; 3560
DdeI	C!TNAG	13	283; 810; 847; 943; 1391; 1697; 1753; 1998; 2463; 2872; 3038; 3578; 4004
DinI	GGC!GCC	1	258
DpnI	GA!TC	21	123; 129; 145; 460; 508; 523; 784; 834; 2756; 2831; 2842; 2850; 2928; 2940; 3045; 3386; 3404; 3450; 3708; 3725; 3761
DpnII	!GATC	21	121; 127; 143; 458; 506; 521; 782; 832; 2754; 2829; 2840; 2848; 2926; 2938; 3043; 3384; 3402; 3448; 3706; 3723; 3759
DraI	TTT!AAA	5	1090; 1429; 2947; 2966; 3658



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DraII	RG!GNCCY	2	693; 4057
DraIII	CACNNN!GTG	0	
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	0	
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCTTG	1	2632
DrdI	GACNNN!NNGTC	2	1883; 2296
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	1	3081
DseDI	GACNNN!NNGTC	2	1883; 2296
EaeI	Y!GGCCR	3	450; 1435; 3469
EagI	C!GGCCG	1	450
Eam1104I	CTCTCN!	2	2072; 3876
Eam1104I	!NNNNGAAGAG	1	238
Eam1105I	GACNNN!NNGTC	1	3081
EarI	CTCTCN!	2	2072; 3876
EarI	!NNNNGAAGAG	1	238
EciI	GGCGGANNNNNNNNNNNN!	1	215
EciI	!NNNNNNNNNTCCGCC	5	700; 1757; 2250; 2396; 3224
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	1	450
Eco24I	GRGCY!C	1	697
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	1	3142
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3219; 3441
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	1	450
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	2	816; 2736
Eco57I	!NNNNNNNNNNNNNNCTTCAG	4	252; 414; 585; 3748
Eco72I	CAC!GTG	2	291; 423
Eco81I	CC!TNAGG	0	
Eco88I	C!YCGRG	3	1; 214; 493
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	3	251; 560; 1471
Eco147I	AGG!CCT	0	
EcoHI	!CCSGG	6	888; 1832; 1867; 2566; 3262; 3613
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	3	816; 1292; 2736
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	252; 414; 585; 3151; 3748
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	693; 4057
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	6	1345; 1401; 1649; 2214; 2335; 2348
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	3	251; 560; 1471
EcoT22I	ATGCA!T	0	
EcoT38I	GRGCY!C	1	697
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	1	258
EheI	GGC!GCC	1	258
ErhI	C!CWWGG	3	251; 560; 1471
EsaBC3I	TC!GA	7	3; 147; 186; 393; 1703; 2289; 3733
Esp3I	CGTCTCN!	1	1394
Esp3I	!NNNNNGAGACG	1	1831
FaeI	CATG!	19	141; 231; 564; 651; 702; 1245; 1475; 1536; 1557; 1827; 1932; 2192; 2912; 3403; 3413; 3491; 3527; 3920; 4025
Fail	YA!TR	51	12; 49; 115; 139; 229; 562; 649; 700; 979; 993; 1054; 1179; 1208; 1243; 1311; 1313; 1380; 1443; 1473; 1486; 1534; 1555; 1825; 1930; 1961; 1975; 2011; 2013; 2190; 2254; 2327; 2632; 2910; 2982; 2984; 2986; 3066; 3357; 3401; 3411; 3489; 3495; 3508; 3525; 3591; 3646; 3867; 3918; 3930; 4023; 4036
FalI	AAGNNNNNCTNNNNNNNNNNNN!	0	
FalI	!NNNNNNNNAAGNNNNNCTT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FaqI	GGGACNNNNNNNNNN!	0	
FaqI	!NNNNNNNNNNNNNGTCCC	0	
FatI	!CATG	19	137; 227; 560; 647; 698; 1241; 1471; 1532; 1553; 1823; 1928; 2188; 2908; 3399; 3409; 3487; 3523; 3916; 4021
FauI	CCCGCNNNN!	4	141; 394; 601; 1155
FauI	!NNNNNNGCGGG	2	1599; 1893
FauNDI	CA!TATG	1	2011
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	1960
FmuI	GGNC!C	9	225; 696; 697; 1715; 3126; 3205; 3222; 3444; 4060
Fnu4HI	GC!NGC	34	153; 198; 225; 333; 372; 411; 418; 453; 531; 585; 618; 714; 727; 886; 1512; 1771; 1782; 1828; 1925; 1978; 2094; 2115; 2233; 2388; 2531; 2596; 2599; 2805; 3070; 3133; 3472; 3499; 3594; 3823
FokI	GGATGNNNNNNNN!	1	1876
FokI	!NNNNNNNNNNNNNCATCC	6	511; 652; 1150; 3047; 3228; 3515
FriOI	GRGCY!C	1	697
FseI	GGCCGG!CC	1	452
FspI	TGC!GCA	1	3303
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	6	919; 1667; 1776; 2683; 2936; 3271
FspEI	CCNNNNNNNNNNNN!	123	13; 144; 166; 180; 225; 246; 264; 279; 301; 325; 340; 358; 372; 393; 451; 466; 498; 528; 552; 571; 606; 658; 678; 694; 709; 724; 753; 775; 792; 807; 836; 859; 899; 927; 995; 1010; 1064; 1097; 1138; 1160; 1180; 1236; 1254; 1296; 1359; 1409; 1430; 1451; 1472; 1525; 1550; 1566; 1653; 1728; 1765; 1781; 1798; 1828; 1846; 1881; 1896; 1941; 2022; 2041; 2067; 2084; 2171; 2217; 2235; 2265; 2279; 2328; 2349; 2372; 2386; 2401; 2415; 2430; 2501; 2524; 2541; 2555; 2576; 2602; 2680; 2734; 2771; 2786; 2857; 2948; 3024; 3046; 3077; 3093; 3130; 3157; 3175; 3201; 3218; 3235; 3251; 3276; 3301; 3329; 3386; 3419; 3449; 3485; 3541; 3581; 3613; 3627; 3650; 3727; 3754; 3797; 3836; 3888; 3982; 3996; 4025; 4046; 4072
FspEI	!NNNNNNNNNNNNNNGG	117	21; 53; 85; 104; 146; 175; 205; 238; 280; 302; 353; 388; 430; 457; 481; 529; 547; 565; 599; 619; 674; 703; 730; 801; 845; 864; 888; 909; 930; 958; 986; 1008; 1056; 1110; 1152; 1177; 1256; 1280; 1311; 1332; 1388; 1419; 1458; 1477; 1500; 1531; 1583; 1609; 1636; 1659; 1678; 1696; 1723; 1743; 1781; 1819; 1846; 1873; 1892; 1937; 1962; 2000; 2027; 2045; 2085; 2106; 2124; 2152; 2185; 2214; 2240; 2288; 2322; 2380; 2406; 2441; 2460; 2478; 2527; 2553; 2577; 2597; 2620; 2645; 2672; 2716; 2743; 2761; 2812; 2844; 2881; 2909; 2981; 3012; 3089; 3147; 3181; 3202; 3248; 3310; 3337; 3358; 3411; 3453; 3474; 3538; 3578; 3600; 3658; 3689; 3778; 3797; 3816; 3888; 3907; 3946; 4028
Fsp4HI	GC!NGC	34	153; 198; 225; 333; 372; 411; 418; 453; 531; 585; 618; 714; 727; 886; 1512; 1771; 1782; 1828; 1925; 1978; 2094; 2115; 2233; 2388; 2531; 2596; 2599; 2805; 3070; 3133; 3472; 3499; 3594; 3823
GdiII	C!GGCCR	1	450
GdiII	Y!GGCCG	2	450; 3469
GlaI	GC!GC	17	258; 610; 663; 1790; 1893; 1923; 2064; 2097; 2367; 2434; 2534; 2708; 2817; 3210; 3303; 3640; 3972
GluI	GC!NGC	34	153; 198; 225; 333; 372; 411; 418; 453; 531; 585; 618; 714; 727; 886; 1512; 1771; 1782; 1828; 1925; 1978; 2094; 2115; 2233; 2388; 2531; 2596; 2599; 2805; 3070; 3133; 3472; 3499; 3594; 3823
GsaI	CCCAG!C	2	332; 677
GsaI	GCTGG!G	2	748; 2496
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	1292
GsuI	!NNNNNNNNNNNNNCTCCAG	1	3151
HaeI	WGG!CCW	5	1350; 1437; 2203; 2214; 2666
HaeII	RGCGC!Y	4	260; 665; 2066; 2436
HaeIII	GG!CC	17	224; 448; 452; 695; 1083; 1128; 1350; 1437; 1714; 2203; 2214; 2232; 2666; 3124; 3204; 3471; 4058
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	1	3100
HaeIV	!NNNNNNNNNGAYNNNNNRTC	1	3066
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	1	3099
HaeIV	!NNNNNNNGAYNNNNNRTC	1	3068

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HapII	C!CGG	18	161; 449; 485; 889; 1125; 1167; 1295; 1834; 1868; 2395; 2542; 2568; 2758; 3162; 3196; 3263; 3373; 3615
HgaI	GACGCNNNNN!	2	2299; 2877
HgaI	!NNNNNNNNNNNGCGTC	2	1883; 3607
HhaI	GCG!C	17	259; 611; 664; 1791; 1894; 1924; 2065; 2098; 2368; 2435; 2535; 2709; 2818; 3211; 3304; 3641; 3973
Hin1I	GR!CGYC	3	257; 3618; 4000
Hin1II	CATG!	19	141; 231; 564; 651; 702; 1245; 1475; 1536; 1557; 1827; 1932; 2192; 2912; 3403; 3413; 3491; 3527; 3920; 4025
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1177; 3099; 3173
Hin4I	!NNNNNNNNNGABNNNNNNRTC	1	3067
Hin4I	GABNNNNNNRTCNNNNNNNNNNNN!	1	3099
Hin4I	!NNNNNNNNNGAYNNNNNVTC	3	1145; 3067; 3141
Hin6I	G!CGC	17	257; 609; 662; 1789; 1892; 1922; 2063; 2096; 2366; 2433; 2533; 2707; 2816; 3209; 3302; 3639; 3971
HinP1I	G!CGC	17	257; 609; 662; 1789; 1892; 1922; 2063; 2096; 2366; 2433; 2533; 2707; 2816; 3209; 3302; 3639; 3971
HincII	GTY!RAC	0	
HindII	GTY!RAC	0	
HindIII	A!AGCTT	1	798
Hinfi	G!ANTC	9	55; 819; 910; 1520; 1661; 2088; 2163; 2559; 3076
HpaI	GTT!AAC	0	
HpaII	C!CGG	18	161; 449; 485; 889; 1125; 1167; 1295; 1834; 1868; 2395; 2542; 2568; 2758; 3162; 3196; 3263; 3373; 3615
HphI	GGTGANNNNNNNN!	8	917; 1206; 1350; 1418; 1752; 1810; 3567; 3808
HphI	!NNNNNNNTCACC	9	150; 504; 1212; 1406; 1460; 2924; 3151; 3773; 4062
Hpy8I	GTN!NAC	8	639; 1220; 1743; 1961; 2006; 2504; 2992; 3750
Hpy99I	CGWCG!	5	616; 1290; 2293; 3087; 3350
Hpy166II	GTN!NAC	8	639; 1220; 1743; 1961; 2006; 2504; 2992; 3750
Hpy188I	TCN!GA	12	850; 872; 1819; 1985; 2302; 2380; 2733; 2867; 3002; 3448; 3459; 3579
Hpy188III	TC!NNGA	21	3; 125; 393; 657; 774; 860; 937; 1167; 1271; 1752; 1776; 2422; 2556; 2654; 2752; 2835; 2909; 3168; 3917; 4022; 4052
HpyAV	CCTTCNNNNNN!	8	276; 357; 609; 717; 780; 2428; 2738; 3446
HpyAV	!NNNNNNGAAGG	3	2680; 3193; 3805
HpyCH4III	ACN!GT	15	543; 986; 1064; 1097; 1194; 1235; 1338; 1585; 1807; 1842; 2152; 2223; 2693; 3006; 3521
HpyCH4IV	A!CGT	10	290; 422; 572; 1257; 1432; 1941; 2891; 3307; 3680; 4000
HpyCH4V	TG!CA	15	354; 420; 555; 651; 684; 729; 1827; 2006; 2504; 2800; 3135; 3225; 3418; 3506; 3750
HpyF3I	C!TNAG	13	283; 810; 847; 943; 1391; 1697; 1753; 1998; 2463; 2872; 3038; 3578; 4004
HpyF10VI	GCNNNNN!NNGC	17	33; 161; 206; 254; 461; 593; 617; 806; 924; 948; 1511; 2012; 2062; 2127; 2241; 2813; 3201
Hsp92I	GR!CGYC	3	257; 3618; 4000
Hsp92II	CATG!	19	141; 231; 564; 651; 702; 1245; 1475; 1536; 1557; 1827; 1932; 2192; 2912; 3403; 3413; 3491; 3527; 3920; 4025
HspAI	G!CGC	17	257; 609; 662; 1789; 1892; 1922; 2063; 2096; 2366; 2433; 2533; 2707; 2816; 3209; 3302; 3639; 3971
KasI	G!GCGCC	1	256
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1166
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	0	
Kzo9I	!GATC	21	121; 127; 143; 458; 506; 521; 782; 832; 2754; 2829; 2840; 2848; 2926; 2938; 3043; 3384; 3402; 3448; 3706; 3723; 3759
LguI	GCTCTTCN!	1	2072
LguI	!NNNNGAAGAGC	1	238
LpnI	RGC!GCV	4	258; 663; 2064; 2434
LpnPI	CCDGNNNNNNNNN!	49	174; 274; 292; 342; 364; 462; 498; 565; 619; 687; 775; 807; 836; 902; 1071; 1138; 1164; 1180; 1308; 1359; 1415; 1430; 1663; 1765; 1847; 1881; 1948; 2217; 2281; 2349; 2386; 2408; 2555; 2581; 2734; 2771; 3086; 3140; 3175; 3201; 3235; 3258; 3276; 3301; 3386; 3628; 3740; 3797; 4009

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LpnPI	!NNNNNNNNNNNNNNCHGG	51	146; 175; 205; 434; 470; 562; 730; 845; 874; 922; 958; 1056; 1110; 1152; 1185; 1256; 1280; 1332; 1388; 1500; 1587; 1636; 1695; 1819; 1853; 1873; 1949; 2045; 2152; 2201; 2226; 2305; 2335; 2380; 2478; 2527; 2553; 2577; 2597; 2743; 2761; 3106; 3147; 3181; 3248; 3310; 3358; 3538; 3600; 3778; 3888
Lsp1109I	GCAGCNNNNNNNN!	7	542; 596; 1839; 1936; 2607; 2816; 3510
Lsp1109I	!NNNNNNNNNNNNNGCTGC	8	404; 713; 1768; 2080; 2098; 2517; 3056; 3119
LweI	GCATCNNNNNN!	11	164; 398; 686; 758; 1013; 1686; 1989; 2065; 2285; 3337; 3777
LweI	!NNNNNNNNNNNGATGC	4	1498; 1854; 2025; 3528
MabI	A!CCWGGT	0	
MaeI	C!TAG	6	919; 1667; 1776; 2683; 2936; 3271
MaeII	A!CGT	10	290; 422; 572; 1257; 1432; 1941; 2891; 3307; 3680; 4000
MaeIII	!GTNAC	12	1227; 1332; 1842; 1937; 2544; 2607; 2723; 3006; 3337; 3395; 3548; 3736
MalI	GA!TC	21	123; 129; 145; 460; 508; 523; 784; 834; 2756; 2831; 2842; 2850; 2928; 2940; 3045; 3386; 3404; 3450; 3708; 3725; 3761
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	1	1773
MbiI	GAG!CGG	4	36; 68; 2121; 3922
MboI	!GATC	21	121; 127; 143; 458; 506; 521; 782; 832; 2754; 2829; 2840; 2848; 2926; 2938; 3043; 3384; 3402; 3448; 3706; 3723; 3759
MboII	GAAGANNNNNNNNN!	3	153; 255; 2850
MboII	!NNNNNNNTCTTC	8	501; 1445; 2059; 2921; 3676; 3754; 3863; 4059
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	59
MflI	R!GATCY	8	127; 832; 2829; 2840; 2926; 2938; 3706; 3723
MhlI	GDGCH!C	10	211; 250; 484; 551; 697; 1641; 2008; 2506; 3667; 3752
MlsI	TGG!CCA	1	1437
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	1437
MlyI	GAGTCNNNNNN!	1	2568
MlyI	!NNNNNGACTC	4	813; 1655; 2082; 3070
Mly113I	GG!CGCC	1	257
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	2403; 2587
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	0	
MnlI	CCTCNNNNNNNN!	8	10; 856; 1795; 1825; 2087; 2370; 3248; 3454
MnlI	!NNNNNNNGAGG	14	93; 112; 198; 396; 438; 489; 714; 1016; 1667; 2296; 2620; 3020; 3101; 4048
Mph1103I	ATGCA!T	0	
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1166
MroNI	G!CCGGC	1	448
MroXI	GAANN!NNTTC	2	346; 3680
MscI	TGG!CCA	1	1437
MseI	T!TAA	18	95; 109; 802; 1089; 1428; 1570; 1622; 1643; 1969; 2894; 2946; 2951; 2965; 3018; 3253; 3292; 3657; 4029
MslI	CAYNN!NNRTG	3	3333; 3492; 3851
MspI	C!CGG	18	161; 449; 485; 889; 1125; 1167; 1295; 1834; 1868; 2395; 2542; 2568; 2758; 3162; 3196; 3263; 3373; 3615
Msp20I	TGG!CCA	1	1437
MspA1I	CMG!CKG	7	332; 1070; 1514; 1900; 2530; 2775; 3716
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	199	13; 49; 81; 94; 137; 150; 166; 180; 198; 213; 226; 240; 263; 287; 301; 335; 351; 367; 392; 405; 426; 456; 483; 497; 516; 531; 555; 571; 585; 605; 618; 645; 658; 685; 702; 727; 742; 757; 774; 792; 806; 822; 835; 848; 861; 883; 901; 926; 940; 955; 985; 1009; 1054; 1070; 1083; 1109; 1125; 1149; 1163; 1179; 1212; 1237; 1254; 1283; 1296; 1320; 1342; 1358; 1371; 1403; 1429; 1445; 1473; 1490; 1503; 1518; 1536; 1566; 1581; 1614; 1654; 1679; 1693; 1709; 1722; 1764; 1788; 1802; 1830; 1845; 1862; 1880; 1895; 1913; 1930; 1946; 1965; 1980; 1996; 2010; 2041; 2067; 2090; 2111; 2130; 2143; 2171; 2189; 2209; 2227; 2246; 2265; 2280; 2294; 2308; 2322; 2348; 2361; 2375; 2391; 2407; 2434; 2452; 2475; 2500; 2517; 2535; 2549; 2568; 2589; 2604; 2617; 2633; 2659; 2679; 2695; 2727; 2744; 2764; 2778; 2813; 2827; 2845; 2872; 2894; 2921; 2947; 2987; 3007; 3023; 3045; 3077; 3093; 3117; 3133; 3157; 3170; 3200; 3217; 3234; 3257; 3275; 3300; 3315; 3337; 3352; 3385; 3400; 3420; 3459; 3485; 3498; 3519; 3536; 3565; 3580; 3612; 3626; 3639; 3655; 3678; 3700; 3713; 3739; 3753; 3766; 3796; 3814; 3828; 3859; 3876; 3915; 3929; 3969; 3982; 3995; 4008; 4034; 4059
MspJI	!NNNNNNNNNNNNYNG	171	10; 49; 100; 119; 147; 170; 200; 223; 247; 265; 282; 302; 323; 341; 372; 400; 417; 435; 457; 479; 505; 529; 547; 567; 588; 617; 634; 660; 685; 703; 727; 748; 766; 792; 809; 834; 851; 875; 893; 910; 930; 959; 1006; 1044; 1065; 1095; 1129; 1152; 1182; 1211; 1228; 1256; 1280; 1302; 1321; 1359; 1378; 1403; 1428; 1447; 1473; 1501; 1519; 1540; 1576; 1593; 1620; 1637; 1657; 1684; 1704; 1724; 1744; 1762; 1781; 1803; 1820; 1840; 1865; 1883; 1903; 1921; 1950; 1969; 1998; 2023; 2045; 2064; 2081; 2099; 2135; 2152; 2175; 2201; 2220; 2241; 2259; 2282; 2301; 2322; 2347; 2364; 2381; 2406; 2435; 2454; 2475; 2500; 2518; 2542; 2563; 2591; 2612; 2640; 2659; 2683; 2707; 2729; 2762; 2779; 2799; 2821; 2844; 2876; 2895; 2922; 2971; 3008; 3025; 3059; 3084; 3106; 3131; 3148; 3174; 3192; 3220; 3249; 3270; 3287; 3311; 3330; 3353; 3374; 3396; 3416; 3443; 3474; 3510; 3532; 3555; 3576; 3596; 3613; 3659; 3689; 3707; 3731; 3751; 3770; 3794; 3824; 3888; 3905; 3930; 3947; 3968; 3991; 4008; 4029; 4049
MspR9I	CC!NGG	12	890; 1347; 1403; 1651; 1834; 1869; 2216; 2337; 2350; 2568; 3264; 3615
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	59
MvaI	CC!WGG	6	1347; 1403; 1651; 2216; 2337; 2350
MvaI269I	GAATGCN!	2	1163; 1570
MvaI269I	G!CATTC	1	787
MvnI	CG!CG	11	455; 611; 716; 1789; 1791; 1894; 2235; 2816; 3146; 3639; 3971
MvrI	CGAT!CG	2	785; 3451
MwoI	GCNNNNN!NNGC	17	33; 161; 206; 254; 461; 593; 617; 806; 924; 948; 1511; 2012; 2062; 2127; 2241; 2813; 3201
NaeI	GCC!GGC	1	450
NarI	GG!CGCC	1	257
NciI	CC!SGG	6	890; 1834; 1869; 2568; 3264; 3615
NcoI	C!CATGG	2	560; 1471
NdeI	CA!TATG	1	2011
NdeII	!GATC	21	121; 127; 143; 458; 506; 521; 782; 832; 2754; 2829; 2840; 2848; 2926; 2938; 3043; 3384; 3402; 3448; 3706; 3723; 3759
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	2	3327; 3552
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	2	3363; 3588
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	1	448
NheI	G!CTAGC	1	918
NlaIII	CATG!	19	141; 231; 564; 651; 702; 1245; 1475; 1536; 1557; 1827; 1932; 2192; 2912; 3403; 3413; 3491; 3527; 3920; 4025
NlaIV	GGN!NCC	16	129; 165; 210; 258; 321; 483; 694; 696; 1638; 2220; 2259; 3031; 3125; 3166; 3377; 3967
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	2	180; 2301
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	274; 1525; 1781
Nii3877I	CYCGR!G	3	5; 218; 497
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	1	3230
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	0	
NmeDI	RCCGGYNNNNNN!	4	172; 460; 496; 3173

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmeDI	!NNNNNNNNNNRCCGGY	4	147; 435; 471; 3148
NmuCI	!GTSAC	4	1842; 1937; 3337; 3548
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3303
NsiI	ATGCA!T	0	
NspI	RCATG!Y	3	651; 1827; 2192
NspV	TT!CGAA	0	
OliI	CACNN!NNGTG	0	
PabI	GTA!C	6	401; 761; 1050; 1588; 1997; 3562
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	0	
PaeR7I	C!TCGAG	1	1
PagI	T!CATGA	3	2908; 3916; 4021
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	1	1402
PauI	G!CGCGC	0	
PceI	AGG!CCT	0	
PciI	A!CATGT	1	2188
PciSI	GCTCTCN!	1	2072
PciSI	!NNNNGAAGAGC	1	238
PcsI	WCGNNNN!NNNCGW	4	398; 2114; 2512; 3389
PctI	GAATGCN!	2	1163; 1570
PctI	G!CATTG	1	787
PdiI	GCC!GGC	1	450
PdmI	GAANN!NNTTC	2	346; 3680
PfeI	G!AWTC	4	55; 910; 1520; 2163
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	1935
PfIMI	CCANNNN!NTGG	2	294; 1402
PfoI	T!CCNGGA	1	1832
PhoI	GG!CC	17	224; 448; 452; 695; 1083; 1128; 1350; 1437; 1714; 2203; 2214; 2232; 2666; 3124; 3204; 3471; 4058
PinAI	A!CCGGT	0	
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	2	2007; 2083
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	1132; 1486
PleI	GAGTCNNNN!	1	2567
PleI	!NNNNNGACTC	4	813; 1655; 2082; 3070
Ple19I	CGAT!CG	2	785; 3451
PmaCI	CAC!GTG	2	291; 423
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	2	291; 423
PpiI	GAACNNNNCTCNNNNNNNNNNNN!	1	2903
PpiI	!NNNNNNNGAGNNNNNGTTC	1	3713
PpiI	GAGNNNNGTTCNNNNNNNNNNNN!	1	3745
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2871
PpsI	GAGTCNNNN!	1	2567
PpsI	!NNNNNGACTC	4	813; 1655; 2082; 3070
Ppu10I	A!TGCAT	0	
Ppu21I	YAC!GTR	3	291; 423; 1942
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	2188
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	3253
PsiI	TTA!TAA	1	49
Psp03I	GGWC!C	2	3222; 3444
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	6	1345; 1401; 1649; 2214; 2335; 2348
Psp1406I	AA!CGTT	3	1257; 3307; 3680
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	2	291; 423
PspEI	G!GTNACC	0	
PspGI	!CCWGG	6	1345; 1401; 1649; 2214; 2335; 2348
PspLI	C!GTACG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspN4I	GGN!NCC	16	129; 165; 210; 258; 321; 483; 694; 696; 1638; 2220; 2259; 3031; 3125; 3166; 3377; 3967
PspOMI	G!GGCCC	1	693
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	0	
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	0	
PspPI	G!GNCC	9	222; 693; 694; 1712; 3123; 3202; 3219; 3441; 4057
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	4	347; 692; 866; 3145
PspPRI	!NNNNNNNNNNNNNNCTGRGG	1	1637
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	696; 4060
PstI	CTGCA!G	1	686
PstNI	CAGNNN!CTG	1	2604
PsuI	R!GATCY	8	127; 832; 2829; 2840; 2926; 2938; 3706; 3723
PsyI	GACN!NNGTC	1	1935
PteI	G!CGCGC	0	
PvuI	CGAT!CG	2	785; 3451
PvuII	CAG!CTG	1	1070
RcaI	T!CATGA	3	2908; 3916; 4021
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	0	
RceI	!NNNNNNNNNNNNNNNNNGTTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	1	452
RleAI	CCCACANNNNNNNNNNNNNN!	0	
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	2	428; 521
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	400; 760; 1049; 1587; 1996; 3561
RsaNI	G!TAC	6	399; 759; 1048; 1586; 1995; 3560
RseI	CAYNN!NNRTG	3	3333; 3492; 3851
RsrII	CG!GWCCG	0	
Rsr2I	CG!GWCCG	0	
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	1	2072
SapI	!NNNNGAAGAGC	1	238
SaqAI	T!TAA	18	95; 109; 802; 1089; 1428; 1570; 1622; 1643; 1969; 2894; 2946; 2951; 2965; 3018; 3253; 3292; 3657; 4029
SatI	GC!NGC	34	153; 198; 225; 333; 372; 411; 418; 453; 531; 585; 618; 714; 727; 886; 1512; 1771; 1782; 1828; 1925; 1978; 2094; 2115; 2233; 2388; 2531; 2596; 2599; 2805; 3070; 3133; 3472; 3499; 3594; 3823
Sau96I	G!GNCC	9	222; 693; 694; 1712; 3123; 3202; 3219; 3441; 4057
Sau3AI	!GATC	21	121; 127; 143; 458; 506; 521; 782; 832; 2754; 2829; 2840; 2848; 2926; 2938; 3043; 3384; 3402; 3448; 3706; 3723; 3759
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	2	1587; 3561
SchI	GAGTCNNNNN!	1	2568
SchI	!NNNNNGACTC	4	813; 1655; 2082; 3070
SciI	CTC!GAG	1	3
ScrFI	CC!NGG	12	890; 1347; 1403; 1651; 1834; 1869; 2216; 2337; 2350; 2568; 3264; 3615
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNN!	3	963; 3238; 3484
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	3	801; 1730; 2351
SdeOSI	GACNNNRTGANNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNTCAYNNNNNGTC	1	3328
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	1	3362

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	10	211; 250; 484; 551; 697; 1641; 2008; 2506; 3667; 3752
SeI	!CGCG	11	453; 609; 714; 1787; 1789; 1892; 2233; 2814; 3144; 3637; 3969
SetI	ASST!	61	2; 191; 268; 281; 293; 325; 425; 430; 436; 476; 554; 575; 589; 601; 631; 728; 746; 802; 811; 816; 848; 920; 924; 944; 953; 1053; 1072; 1201; 1260; 1348; 1435; 1504; 1528; 1672; 1783; 1817; 1832; 1851; 1944; 2132; 2307; 2358; 2404; 2460; 2479; 2494; 2631; 2730; 2751; 2894; 2937; 3035; 3071; 3272; 3310; 3372; 3435; 3683; 3998; 4003; 4035
SexAI	A!CCWGGT	0	
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	11	164; 398; 686; 758; 1013; 1686; 1989; 2065; 2285; 3337; 3777
SfaNI	!NNNNNNNNNGATGC	4	1498; 1854; 2025; 3528
SfcI	C!TRYAG	5	624; 682; 2453; 2644; 3322
SfiI	GGCCNNNN!NGGCC	0	
SfoI	GGC!GCC	1	258
Sfr274I	C!TCGAG	1	1
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	0	
SgeI	CNNGNNNNNNNNN!	153	13; 137; 150; 173; 189; 202; 226; 240; 264; 291; 341; 363; 398; 414; 433; 456; 483; 497; 516; 531; 555; 573; 589; 605; 618; 645; 660; 686; 702; 727; 753; 774; 792; 806; 827; 848; 872; 890; 927; 940; 985; 1070; 1083; 1127; 1155; 1179; 1212; 1237; 1254; 1283; 1296; 1332; 1358; 1414; 1429; 1445; 1473; 1503; 1527; 1545; 1566; 1614; 1662; 1679; 1722; 1764; 1788; 1802; 1836; 1862; 1880; 1895; 1913; 1930; 1947; 1976; 2072; 2090; 2111; 2130; 2179; 2201; 2216; 2246; 2280; 2308; 2327; 2348; 2361; 2375; 2396; 2414; 2434; 2461; 2501; 2517; 2535; 2554; 2568; 2589; 2604; 2617; 2638; 2666; 2695; 2733; 2764; 2788; 2813; 2827; 2847; 2872; 2902; 2921; 2948; 3007; 3085; 3098; 3117; 3133; 3157; 3174; 3200; 3218; 3234; 3257; 3275; 3300; 3337; 3352; 3385; 3400; 3422; 3500; 3536; 3565; 3581; 3613; 3626; 3639; 3700; 3715; 3739; 3757; 3796; 3820; 3859; 3915; 3929; 3982; 4008; 4034; 4064
SgeI	!NNNNNNNNNNNNNCNNG	133	111; 133; 154; 172; 200; 223; 247; 265; 315; 337; 372; 400; 430; 457; 479; 505; 529; 547; 579; 596; 619; 643; 660; 685; 703; 727; 748; 766; 801; 822; 846; 864; 901; 923; 959; 1044; 1101; 1129; 1153; 1186; 1211; 1228; 1257; 1281; 1306; 1332; 1388; 1419; 1447; 1477; 1501; 1519; 1540; 1588; 1636; 1653; 1696; 1738; 1762; 1810; 1836; 1854; 1874; 1897; 1915; 1950; 2046; 2064; 2085; 2104; 2153; 2175; 2201; 2220; 2254; 2282; 2301; 2322; 2347; 2370; 2388; 2408; 2435; 2475; 2500; 2528; 2553; 2578; 2598; 2640; 2669; 2707; 2738; 2762; 2787; 2821; 2846; 2876; 2895; 2922; 2981; 3059; 3091; 3113; 3131; 3148; 3174; 3192; 3231; 3249; 3274; 3311; 3330; 3359; 3379; 3396; 3474; 3510; 3539; 3587; 3613; 3674; 3713; 3731; 3770; 3794; 3833; 3889; 3956; 3982; 4008; 4038; 4060
Sgfi	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	1	2863
SimI	!GACCC	4	776; 1931; 2380; 3149
SinI	G!GWCC	2	3219; 3441
SlaI	C!TCGAG	1	1
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	3	3333; 3492; 3851
SmlI	C!TYRAG	6	1; 1671; 2294; 2556; 2833; 3701
SmoI	C!TYRAG	6	1; 1671; 2294; 2556; 2833; 3701
SmuI	CCCGCNNNN!	4	141; 394; 601; 1155
SmuI	!NNNNNNGCGGG	2	1599; 1893
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	0	
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	13	17; 44; 59; 76; 88; 106; 803; 1170; 1575; 1614; 2948; 3254; 3509



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	0	
SsiI	C!CGC	31	134; 153; 225; 387; 438; 453; 528; 594; 711; 714; 886; 1148; 1512; 1768; 1771; 2028; 2054; 2071; 2233; 2261; 2388; 2407; 2528; 2773; 3144; 3235; 3472; 3637; 3714; 3823; 3969
SsiI	G!CGG	23	36; 68; 197; 200; 332; 371; 410; 617; 1606; 1861; 1900; 1910; 1952; 1977; 2015; 2114; 2121; 2142; 2638; 2782; 3426; 3593; 3922
SspI	AAT!ATT	2	1482; 3885
SspDI	G!GCGCC	1	256
SspD5I	GGTGANNNNNNNN!	8	917; 1206; 1350; 1418; 1752; 1810; 3567; 3808
SspD5I	!NNNNNNNNNTCACC	9	149; 503; 1211; 1405; 1459; 2923; 3150; 3772; 4061
SstI	GAGCT!C	0	
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	17	140; 221; 393; 500; 600; 787; 1154; 1468; 1840; 1890; 2322; 2521; 2530; 2574; 3088; 3621; 3989
Sth132I	!NNNNNNNNNCGGG	13	116; 681; 881; 1598; 1860; 1892; 1909; 2413; 2851; 3096; 3255; 3618; 3679
Sth302II	CC!GG	18	162; 450; 486; 890; 1126; 1168; 1296; 1835; 1869; 2396; 2543; 2569; 2759; 3163; 3197; 3264; 3374; 3616
StrI	C!TCGAG	1	1
StsI	GGATGNNNNNNNNNN!	1	1877
StsI	!NNNNNNNNNNNNNNNCATCC	6	510; 651; 1149; 3046; 3227; 3514
StuI	AGG!CCT	0	
StyI	C!CWWGG	3	251; 560; 1471
StyD4I	!CCNGG	12	888; 1345; 1401; 1649; 1832; 1867; 2214; 2335; 2348; 2566; 3262; 3613
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	543; 986; 1064; 1097; 1194; 1235; 1338; 1585; 1807; 1842; 2152; 2223; 2693; 3006; 3521
TaiI	ACGT!	10	293; 425; 575; 1260; 1435; 1944; 2894; 3310; 3683; 4003
TaqI	T!CGA	7	2; 146; 185; 392; 1702; 2288; 3732
TaqII	GACCGANNNNNNNNNNN!	1	3614
TaqII	!NNNNNNNNNTCGGTC	2	2090; 3429
TaqII	CACCCANNNNNNNNNNN!	1	3767
TaqII	!NNNNNNNNNTGGGTG	2	1394; 3784
TasI	!AATT	13	17; 44; 59; 76; 88; 106; 803; 1170; 1575; 1614; 2948; 3254; 3509
TatI	W!GTACW	3	1585; 1994; 3559
TauI	GCSG!C	19	155; 200; 227; 335; 374; 413; 455; 620; 716; 888; 1514; 1773; 1980; 2117; 2235; 2390; 3474; 3596; 3825
TfiI	G!AWTC	4	55; 910; 1520; 2163
TliI	C!TCGAG	1	1
TruII	T!TAA	18	95; 109; 802; 1089; 1428; 1570; 1622; 1643; 1969; 2894; 2946; 2951; 2965; 3018; 3253; 3292; 3657; 4029
Tru9I	T!TAA	18	95; 109; 802; 1089; 1428; 1570; 1622; 1643; 1969; 2894; 2946; 2951; 2965; 3018; 3253; 3292; 3657; 4029
TscAI	CASTGNN!	9	977; 2090; 2596; 2609; 2880; 3029; 3134; 3481; 3508
TseI	G!CWGC	16	417; 530; 584; 726; 1781; 1827; 1924; 2093; 2111; 2530; 2595; 2598; 2804; 3069; 3132; 3498
TsoI	TARCCANNNNNNNNNNN!	1	1071
TsoI	!NNNNNNNNNTGGYTA	1	3480
Tsp45I	!GTSAC	4	1842; 1937; 3337; 3548
Tsp509I	!AATT	13	17; 44; 59; 76; 88; 106; 803; 1170; 1575; 1614; 2948; 3254; 3509
TspDTI	ATGAANNNNNNNNNNN!	6	154; 256; 1170; 1200; 1588; 2972
TspDTI	!NNNNNNNNNTTCAT	4	1252; 1518; 3049; 3352
TspEI	!AATT	13	17; 44; 59; 76; 88; 106; 803; 1170; 1575; 1614; 2948; 3254; 3509
TspGWI	ACGGANNNNNNNNNNN!	1	3863
TspGWI	!NNNNNNNNNTCCGT	1	3521
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	9	977; 2090; 2596; 2609; 2880; 3029; 3134; 3481; 3508
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TstI	!NNNNNNNGGANNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	1935
Tth111II	CAARCANNNNNNNNNN!	2	2778; 2817
Tth111III	!NNNNNNNNNTGYTTG	2	1722; 2785
UnbI	!GGNCC	9	221; 692; 693; 1711; 3122; 3201; 3218; 3440; 4056
Van91I	CCANNNN!NTGG	2	294; 1402
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	3	2004; 2502; 3748
VpaK11AI	!GGWCC	2	3218; 3440
VpaK11BI	G!GWCC	2	3219; 3441
VspI	AT!TAAT	1	3253
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	2	17; 1170
XbaI	T!CTAGA	1	1775
XceI	RCATG!Y	3	651; 1827; 2192
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1
XhoII	R!GATCY	8	127; 832; 2829; 2840; 2926; 2938; 3706; 3723
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	0	
XmiI	GT!MKAC	1	1960
XmnI	GAANN!NNTTC	2	346; 3680
XspI	C!TAG	6	919; 1667; 1776; 2683; 2936; 3271
ZraI	GAC!GTC	1	4001
ZrmI	AGT!ACT	2	1587; 3561
Zsp2I	ATGCA!T	0	