

pTurboGFP-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	581
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	2	1913; 2326
AatI	AGG!CCT	0	
AatII	GACGT!C	1	4033
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1990
AccII	CG!CG	11	476; 632; 737; 1819; 1821; 1924; 2265; 2846; 3176; 3669; 4001
AccIII	T!CCGGA	1	1196
Acc16I	TGC!GCA	1	3333
Acc36I	ACCTGCNNNN!	2	308; 581
Acc36I	!NNNNNNNNGCAGGT	0	
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	7	184; 229; 277; 340; 502; 1666; 3059
AccB7I	CCANNNN!NTGG	2	315; 1432
AccBSI	CCG!CTC	1	1803
AccBSI	GAG!CGG	5	36; 68; 146; 2151; 3952
AceIII	CAGCTCNNNNNNN!	4	660; 1870; 2170; 3410
AceIII	!NNNNNNNNNNGAGCTG	4	196; 751; 1215; 1797
Acil	C!CGC	31	155; 174; 246; 408; 459; 474; 549; 615; 732; 735; 916; 1178; 1542; 1798; 1801; 2058; 2084; 2101; 2263; 2291; 2418; 2437; 2558; 2803; 3174; 3265; 3502; 3667; 3744; 3853; 3999
Acil	G!CGG	24	36; 68; 146; 218; 221; 353; 392; 431; 638; 1636; 1891; 1930; 1940; 1982; 2007; 2045; 2144; 2151; 2172; 2668; 2812; 3456; 3623; 3952
AcII	AA!CGTT	3	1287; 3337; 3710
AcIWI	GGATCNNNN!	5	129; 755; 2867; 2964; 3744
AcIWI	!NNNNNGATCC	7	122; 857; 2779; 2865; 2963; 3427; 3748
AcoI	Y!GGCCR	3	471; 1465; 3499
AcsI	R!AATY	2	17; 1200
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	1	2766
AcuI	!NNNNNNNNNNNNNNCTTCAG	4	273; 435; 606; 3778
AcvI	CAC!GTG	2	312; 444
AcyI	GR!CGYC	3	278; 3648; 4030
AdeI	CACNNN!GTG	0	
AfaI	GT!AC	6	421; 781; 1079; 1617; 2026; 3591
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	10	240; 315; 465; 738; 1432; 1869; 2240; 2258; 2424; 2703
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	1	2218
AgeI	A!CCGGT	0	
AgsI	TTS!AA	9	59; 492; 678; 795; 2687; 3889; 3912; 3922; 3966
AhdI	GACNNN!NNGTC	1	3111
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	6	1375; 1431; 1679; 2244; 2365; 2378
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	0	
AlfI	GCANNNNNTGCNNNNNNNNNN!	0	
AlfI	!NNNNNNNNGCANNNNNNNTGC	0	
AloI	GAACNNNNNTCCNNNNNNNNNN!	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	27	210; 449; 455; 608; 650; 765; 830; 839; 844; 948; 952; 972; 981; 1100; 1229; 1700; 1811; 1860; 1879; 2160; 2386; 2522; 2779; 3099; 3300; 3400; 3463
AluBI	AG!CT	27	210; 449; 455; 608; 650; 765; 830; 839; 844; 948; 952; 972; 981; 1100; 1229; 1700; 1811; 1860; 1879; 2160; 2386; 2522; 2779; 3099; 3300; 3400; 3463
AlwI	GGATCNNNN!	5	129; 755; 2867; 2964; 3744
AlwI	!NNNNNGATCC	7	122; 857; 2779; 2865; 2963; 3427; 3748
Alw21I	GWGCW!C	6	271; 572; 2038; 2536; 3697; 3782
Alw26I	GTCTCN!	2	1424; 3948
Alw26I	!NNNNNGAGAC	2	1861; 3172
Alw44I	G!TGCAC	3	2034; 2532; 3778
AlwNI	CAGNNN!CTG	1	2634
Ama87I	C!YCGRG	3	1; 235; 514
Aor13HI	T!CCGGA	1	1196
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	1	718
ApaBI	GCANNNNN!TGC	1	2043
ApaLI	G!TGCAC	3	2034; 2532; 3778
ApeKI	G!CWGC	15	438; 551; 605; 1811; 1857; 1954; 2123; 2141; 2560; 2625; 2628; 2834; 3099; 3162; 3528
ApoI	R!AATTY	2	17; 1200
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2342
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	0	
AquI	GCCGNACNNNNNNNNNNNNNNNNNNNN!	0	
AquI	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	125; 767
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	2	492; 2086
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	1	1499
ArsI	!NNNNNCCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	1	1467
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	3283
Asi256I	G!ATC	22	122; 128; 165; 480; 528; 543; 595; 748; 863; 2785; 2860; 2871; 2879; 2957; 2969; 3074; 3415; 3433; 3479; 3737; 3754; 3790
AsiGI	A!CCGGT	0	
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	1965
Asp700I	GAANN!NNTTC	2	367; 3710
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	0	
AspEI	GACNNN!NNGTC	1	3111
AspLEI	GCG!C	17	280; 632; 685; 1821; 1924; 1954; 2095; 2128; 2398; 2465; 2565; 2739; 2848; 3241; 3334; 3671; 4003
AspS9I	G!GNCC	9	243; 714; 715; 1742; 3153; 3232; 3249; 3471; 4087
AssI	AGT!ACT	2	1617; 3591
AsuI	TT!CGAA	0	
AsuC2I	CC!SGG	7	802; 920; 1864; 1899; 2598; 3294; 3645
AsuHPI	GGTGANNNNNNNN!	10	507; 829; 947; 1236; 1380; 1448; 1782; 1840; 3597; 3838
AsuHPI	!NNNNNNNTCACC	10	171; 525; 603; 1242; 1436; 1490; 2954; 3181; 3803; 4092
AsuNHI	G!CTAGC	1	948
AvaI	C!YCGRG	3	1; 235; 514
AvaII	G!GWCC	2	3249; 3471
AviII	TGC!GCA	1	3333
AvrII	C!CTAGG	0	
AxyI	CC!TNAGG	0	
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	

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BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI!C	7	232; 505; 718; 1671; 2038; 2536; 3782
BalI	TGG!CCA	1	1467
BamHI	G!GATCC	1	127
BanI	G!GYRCC	7	184; 229; 277; 340; 502; 1666; 3059
BanII	GRGCY!C	1	718
BanIII	AT!CGAT	0	
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	2	315; 1432
BauI	C!ACGAG	1	4082
BauI	C!TCGTG	2	2391; 3775
BbeI	GGCGC!C	1	281
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	1	4084
BbrPI	CAC!GTG	2	312; 444
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNNGTCTTC	1	4089
BbuI	GCATG!C	0	
BbvI	GCAGCNNNNNNNN!	7	563; 617; 1869; 1966; 2637; 2846; 3540
BbvI	!NNNNNNNNNNNGCTGC	7	425; 1798; 2110; 2128; 2547; 3086; 3149
Bbv12I	GWGCW!C	6	271; 572; 2038; 2536; 3697; 3782
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	388; 694; 894; 3155; 3279; 3566
BccI	!NNNNNGATGG	4	309; 492; 595; 1569
BceAI	ACGGCNNNNNNNNNN!	7	210; 339; 405; 444; 651; 1126; 2720
BceAI	!NNNNNNNNNNNNNGCCGT	1	1551
Bcefl	ACGGCNNNNNNNNNN!	7	210; 339; 405; 444; 651; 1126; 2720
Bcefl	!NNNNNNNNNNNNNGCCGT	1	1552
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	3650
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNTGC	1	3616
BciVI	GTATCCNNNNNN!	0	
BciVI	!NNNNNGGATAC	2	2421; 3948
BclI	T!GATCA	0	
BcnI	CC!SGG	7	802; 920; 1864; 1899; 2598; 3294; 3645
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	1075; 2323
BdaI	!NNNNNNNNNNTGANNNNNTCA	2	1041; 2289
BfaI	C!TAG	6	949; 1697; 1806; 2713; 2966; 3301
BfiI	ACTGGGNNNNN!	1	1749
BfiI	!NNNCCCAGT	2	1959; 3151
BfmI	C!TRYAG	5	645; 703; 2483; 2674; 3352
BfoI	RGCGC!Y	4	281; 686; 2096; 2466
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	0	
BfuI	!NNNNNGGATAC	2	2421; 3948
BfuAI	ACCTGCNNNN!	2	308; 581
BfuAI	!NNNNNNNNNGCAGGT	0	
BfuCI	!GATC	22	121; 127; 164; 479; 527; 542; 594; 747; 862; 2784; 2859; 2870; 2878; 2956; 2968; 3073; 3414; 3432; 3478; 3736; 3753; 3789
BglI	GCCNNNN!NGGC	1	3231
BglII	A!GATCT	0	
BisI	GC!NGC	34	147; 174; 219; 246; 354; 393; 432; 439; 474; 552; 606; 639; 735; 916; 1542; 1801; 1812; 1858; 1955; 2008; 2124; 2145; 2263; 2418; 2561; 2626; 2629; 2835; 3100; 3163; 3502; 3529; 3624; 3853
BlnI	C!CTAGG	0	
BlpI	GC!TNAGC	2	304; 840

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BlsI	GCN!GC	34	148; 175; 220; 247; 355; 394; 433; 440; 475; 553; 607; 640; 736; 917; 1543; 1802; 1813; 1859; 1956; 2009; 2125; 2146; 2264; 2419; 2562; 2627; 2630; 2836; 3101; 3164; 3503; 3530; 3625; 3854
BmcAI	AGT!ACT	2	1617; 3591
Bme18I	G!GWCC	2	3249; 3471
Bme1390I	CC!NGG	13	802; 920; 1377; 1433; 1681; 1864; 1899; 2246; 2367; 2380; 2598; 3294; 3645
BmeRI	GACNNN!NNGTC	1	3111
BmeT110I	C!YCGRG	3	1; 235; 514
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	9	244; 715; 716; 1743; 3154; 3233; 3250; 3472; 4088
BmiI	GGN!NCC	16	129; 186; 231; 279; 342; 504; 715; 717; 1668; 2250; 2289; 3061; 3155; 3196; 3407; 3997
BmrI	ACTGGGNNNNN!	1	1749
BmrI	!NNNNCCCAGT	2	1959; 3151
BmrFI	CC!NGG	13	802; 920; 1377; 1433; 1681; 1864; 1899; 2246; 2367; 2380; 2598; 3294; 3645
BmsI	GCATCNNNNN!	11	185; 419; 707; 779; 1043; 1716; 2019; 2095; 2315; 3367; 3807
BmsI	!NNNNNNNNNGATGC	5	795; 1528; 1884; 2055; 3558
BmtI	GCTAG!C	1	952
BmuI	ACTGGGNNNNN!	1	1749
BmuI	!NNNNCCCAGT	2	1959; 3151
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	1	4089
BpI	GAGNNNNCTCNNNNNNNNNNNN!	0	
BpI	!NNNNNNNNGAGNNNNNNCTC	0	
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	1322
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	3181
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	1	973
Bpu14I	TT!CGAA	0	
Bpu1102I	GC!TNAGC	2	304; 840
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	1	4089
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	1722; 2607
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	2309; 2848; 3716
BpuMI	CC!SGG	7	802; 920; 1864; 1899; 2598; 3294; 3645
BpvUI	CGAT!CG	1	3481
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3172
Bsa29I	AT!CGAT	0	
BsaAI	YAC!GTR	3	312; 444; 1972
BsaBI	GATNN!NNATC	2	126; 593
BsaHI	GR!CGYC	3	278; 3648; 4030
BsaJI	C!CNNGG	11	158; 515; 563; 581; 653; 800; 1431; 1432; 1501; 1680; 2378
BsaMI	GAATGCN!	2	1193; 1600
BsaMI	G!CATTC	0	
BsaWI	W!CCGGW	4	1196; 2424; 2571; 3402
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	664
BsaXI	!NNNNNNNGGAGNNNNNGT	1	154
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	184
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	634
BsbI	CAACACNNNNNNNNNNNNNNNN!	2	428; 782
BsbI	!NNNNNNNNNNNNNNNNNGTGTTG	1	1914
Bsc4I	CCNNNNN!NNGG	10	240; 315; 465; 738; 1432; 1869; 2240; 2258; 2424; 2703
BscAI	GCATCNNNN!	11	184; 418; 706; 778; 1042; 1715; 2018; 2094; 2314; 3366; 3806
BscAI	!NNNNNNGATGC	5	798; 1531; 1887; 2058; 3561
Bse1I	ACTGGN!	6	1007; 1744; 1998; 2626; 2639; 3587
Bse1I	C!CAGT	8	866; 1447; 1965; 2751; 3157; 3275; 3318; 3757
Bse8I	GATNN!NNATC	2	126; 593
Bse21I	CC!TNAGG	0	
Bse118I	R!CCGGY	5	181; 469; 505; 814; 3191

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BseAI	T!CCGGA	1	1196
BseBI	CC!WGG	6	1377; 1433; 1681; 2246; 2367; 2380
BseCI	AT!CGAT	0	
BseDI	C!CNNGG	11	158; 515; 563; 581; 653; 800; 1431; 1432; 1501; 1680; 2378
Bse3DI	GCAATGNN!	2	1219; 3172
Bse3DI	!CATTGC	1	3346
BseGI	GGATGNN!	3	606; 810; 1899
BseGI	!CATCC	7	545; 686; 698; 1193; 3090; 3271; 3558
BseJI	GATNN!NNATC	2	126; 593
BseLI	CCNNNNN!NNGG	10	240; 315; 465; 738; 1432; 1869; 2240; 2258; 2424; 2703
BseMI	GCAATGNN!	2	1219; 3172
BseMI	!CATTGC	1	3346
BseMII	CTCAGNNNNNNNNNN!	6	891; 1435; 1741; 2507; 2916; 3082
BseMII	!NNNNNNNNCTGAG	5	295; 831; 1774; 2019; 3599
BseNI	ACTGNN!	6	1007; 1744; 1998; 2626; 2639; 3587
BseNI	C!CAGT	8	866; 1447; 1965; 2751; 3157; 3275; 3318; 3757
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	115; 757
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	7	232; 505; 718; 1671; 2038; 2536; 3782
BseXI	GCAGCNNNNNNNN!	7	563; 617; 1869; 1966; 2637; 2846; 3540
BseXI	!NNNNNNNNNNNGCTGC	7	425; 1798; 2110; 2128; 2547; 3086; 3149
BseX3I	C!GGCCG	1	471
BseYI	C!CCAGC	2	349; 694
BseYI	G!CTGGG	2	765; 2522
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	3	358; 424; 559
Bsh1236I	CG!CG	11	476; 632; 737; 1819; 1821; 1924; 2265; 2846; 3176; 3669; 4001
Bsh1285I	CGRY!CG	4	474; 2558; 3481; 3630
BshFI	GG!CC	18	149; 245; 469; 473; 716; 1113; 1158; 1380; 1467; 1744; 2233; 2244; 2262; 2696; 3154; 3234; 3501; 4088
BshNI	G!GYRCC	7	184; 229; 277; 340; 502; 1666; 3059
BshTI	A!CCGGT	0	
BshVI	AT!CGAT	0	
BsiEI	CGRY!CG	4	474; 2558; 3481; 3630
BsiHKAI	GWGCW!C	6	271; 572; 2038; 2536; 3697; 3782
BsiHKCI	C!YCGRG	3	1; 235; 514
BsiSI	C!CGG	20	182; 470; 506; 802; 815; 919; 1155; 1197; 1325; 1864; 1898; 2425; 2572; 2598; 2788; 3192; 3226; 3293; 3403; 3645
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	10	240; 315; 465; 738; 1432; 1869; 2240; 2258; 2424; 2703
BsIFI	GGGACNNNNNNNNNN!	0	
BsIFI	!NNNNNNNNNNNNNGTCCC	0	
BsmI	GAATGCN!	2	1193; 1600
BsmI	G!CATTC	0	
BsmAI	GTCTCN!	2	1424; 3948
BsmAI	!NNNNNGAGAC	2	1861; 3172
BsmBI	CGTCTCN!	1	1424
BsmBI	!NNNNNGAGACG	1	1861
BsmFI	GGGACNNNNNNNNNN!	0	
BsmFI	!NNNNNNNNNNNNNGTCCC	0	
BsnI	GG!CC	18	149; 245; 469; 473; 716; 1113; 1158; 1380; 1467; 1744; 2233; 2244; 2262; 2696; 3154; 3234; 3501; 4088
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3172
BsoBI	C!YCGRG	3	1; 235; 514
Bsp13I	T!CCGGA	1	1196
Bsp19I	C!CATGG	3	158; 581; 1501
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	2743; 2921
Bsp24I	!NNNNNNCCANNNNNNNGTC	1	4015
Bsp24I	CCANNNNNNGTCTNNNNNNNNNNNN!	1	4047
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	2711; 2889
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	0	
Bsp120I	G!GGCCC	1	714

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Bsp143I	!GATC	22	121; 127; 164; 479; 527; 542; 594; 747; 862; 2784; 2859; 2870; 2878; 2956; 2968; 3073; 3414; 3432; 3478; 3736; 3753; 3789
Bsp1286I	GDGCH!C	10	232; 271; 505; 572; 718; 1671; 2038; 2536; 3697; 3782
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	2	304; 840
BspACI	C!CGC	31	155; 174; 246; 408; 459; 474; 549; 615; 732; 735; 916; 1178; 1542; 1798; 1801; 2058; 2084; 2101; 2263; 2291; 2418; 2437; 2558; 2803; 3174; 3265; 3502; 3667; 3744; 3853; 3999
BspACI	G!CGG	24	36; 68; 146; 218; 221; 353; 392; 431; 638; 1636; 1891; 1930; 1940; 1982; 2007; 2045; 2144; 2151; 2172; 2668; 2812; 3456; 3623; 3952
BspCNI	CTCAGNNNNNNNN!	6	890; 1434; 1740; 2506; 2915; 3081
BspCNI	!NNNNNNNCTGAG	5	296; 832; 1775; 2020; 3600
BspDI	AT!CGAT	0	
BspD6I	GA CTCNNNN!	4	857; 1699; 2126; 3114
BspD6I	!NNNNNGAGTC	1	2582
BspEI	T!CCGGA	1	1196
BspFNI	CG!CG	11	476; 632; 737; 1819; 1821; 1924; 2265; 2846; 3176; 3669; 4001
BspHI	T!CATGA	3	2938; 3946; 4051
BspLI	GGN!NCC	16	129; 186; 231; 279; 342; 504; 715; 717; 1668; 2250; 2289; 3061; 3155; 3196; 3407; 3997
BspMI	ACCTGCNNNN!	2	308; 581
BspMI	!NNNNNNNNGCAGGT	0	
BspOI	GCTAG!C	1	952
BspPI	GGATCNNNN!	5	129; 755; 2867; 2964; 3744
BspPI	!NNNNNGATCC	7	122; 857; 2779; 2865; 2963; 3427; 3748
BspQI	GCTCTCN!	1	2102
BspQI	!NNNNGAAGAGC	1	259
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	0	
BspT107I	G!GYRCC	7	184; 229; 277; 340; 502; 1666; 3059
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3172
BsrI	ACTGGN!	6	1007; 1744; 1998; 2626; 2639; 3587
BsrI	C!CAGT	8	866; 1447; 1965; 2751; 3157; 3275; 3318; 3757
BsrBI	CCG!CTC	1	1803
BsrBI	GAG!CGG	5	36; 68; 146; 2151; 3952
BsrDI	GCAATGNN!	2	1219; 3172
BsrDI	!CATTGC	1	3346
BsrFI	R!CCGGY	5	181; 469; 505; 814; 3191
BsrGI	T!GTACA	0	
BsrSI	ACTGGN!	6	1007; 1744; 1998; 2626; 2639; 3587
BsrSI	C!CAGT	8	866; 1447; 1965; 2751; 3157; 3275; 3318; 3757
BssAI	R!CCGGY	5	181; 469; 505; 814; 3191
BssECI	C!CNNGG	11	158; 515; 563; 581; 653; 800; 1431; 1432; 1501; 1680; 2378
BssHII	G!CGCGC	0	
BssKI	!CCNGG	13	800; 918; 1375; 1431; 1679; 1862; 1897; 2244; 2365; 2378; 2596; 3292; 3643
BssMI	!GATC	22	121; 127; 164; 479; 527; 542; 594; 747; 862; 2784; 2859; 2870; 2878; 2956; 2968; 3073; 3414; 3432; 3478; 3736; 3753; 3789
BssNI	GR!CGYC	3	278; 3648; 4030
BssNAI	GTA!TAC	1	1991
BssSI	C!ACGAG	1	4082
BssSI	C!TCGTG	2	2391; 3775
BssTII	C!CWWGG	3	158; 581; 1501
Bst6I	CTCTCN!	2	2102; 3906
Bst6I	!NNNNGAAGAG	1	259
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	1	1991
BstACI	GR!CGYC	3	278; 3648; 4030
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	1	2042
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bst2BI	C!ACGAG	1	4082
Bst2BI	C!TCGTG	2	2391; 3775
BstBAI	YAC!GTR	3	312; 444; 1972
Bst4CI	ACN!GT	15	564; 1016; 1094; 1127; 1224; 1265; 1368; 1615; 1837; 1872; 2182; 2253; 2723; 3036; 3551
BstC8I	GCN!NGC	15	151; 155; 377; 436; 471; 628; 788; 950; 1178; 1546; 2149; 2235; 2272; 2832; 3223
BstDEI	C!TNAG	13	304; 840; 877; 973; 1421; 1727; 1783; 2028; 2493; 2902; 3068; 3608; 4034
BstDSI	C!CRYGG	5	158; 563; 581; 653; 1501
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	3	606; 810; 1899
BstF5I	!CATCC	7	545; 686; 698; 1193; 3090; 3271; 3558
BstFNI	CG!CG	11	476; 632; 737; 1819; 1821; 1924; 2265; 2846; 3176; 3669; 4001
BstH2I	RGCGC!Y	4	281; 686; 2096; 2466
BstHHI	GCG!C	17	280; 632; 685; 1821; 1924; 1954; 2095; 2128; 2398; 2465; 2565; 2739; 2848; 3241; 3334; 3671; 4003
BstKTI	GAT!C	22	124; 130; 167; 482; 530; 545; 597; 750; 865; 2787; 2862; 2873; 2881; 2959; 2971; 3076; 3417; 3435; 3481; 3739; 3756; 3792
BstMAI	GTCTCN!	2	1424; 3948
BstMAI	!NNNNNGAGAC	2	1861; 3172
BstMBI	!GATC	22	121; 127; 164; 479; 527; 542; 594; 747; 862; 2784; 2859; 2870; 2878; 2956; 2968; 3073; 3414; 3432; 3478; 3736; 3753; 3789
BstMCI	CGRY!CG	4	474; 2558; 3481; 3630
BstMWI	GCNNNNN!NNGC	18	33; 143; 182; 227; 275; 482; 614; 638; 836; 954; 978; 1541; 2042; 2092; 2157; 2271; 2843; 3231
BstNI	CC!WGG	6	1377; 1433; 1681; 2246; 2367; 2380
BstNSI	RCATG!Y	3	672; 1857; 2222
BstOI	CC!WGG	6	1377; 1433; 1681; 2246; 2367; 2380
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	13	800; 918; 1375; 1431; 1679; 1862; 1897; 2244; 2365; 2378; 2596; 3292; 3643
BstSFI	C!TRYAG	5	645; 703; 2483; 2674; 3352
BstSLI	GKGC!C	7	232; 505; 718; 1671; 2038; 2536; 3782
BstSNI	TAC!GTA	0	
BstUI	CG!CG	11	476; 632; 737; 1819; 1821; 1924; 2265; 2846; 3176; 3669; 4001
Bst2UI	CC!WGG	6	1377; 1433; 1681; 2246; 2367; 2380
BstV1I	GCAGC!NNNNNNN!	7	563; 617; 1869; 1966; 2637; 2846; 3540
BstV1I	!NNNNNNNNNNNGCTGC	7	425; 1798; 2110; 2128; 2547; 3086; 3149
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	1	4089
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	8	127; 862; 2859; 2870; 2956; 2968; 3736; 3753
BstYI	R!GATCY	8	127; 862; 2859; 2870; 2956; 2968; 3736; 3753
BstZI	C!GGCCG	1	471
BstZ17I	GTA!TAC	1	1991
BsuI	GTATCCNNNNNN!	0	
BsuI	!NNNNNGGATAC	2	2421; 3948
Bsu15I	AT!CGAT	0	
Bsu36I	CC!TNAGG	0	
BsuRI	GG!CC	18	149; 245; 469; 473; 716; 1113; 1158; 1380; 1467; 1744; 2233; 2244; 2262; 2696; 3154; 3234; 3501; 4088
BsuTUI	AT!CGAT	0	
BtgI	C!CRYGG	5	158; 563; 581; 653; 1501
BtgZI	GCGATGNNNNNNNNN!	1	1636
BtgZI	!NNNNNNNNNNNNNCATCGC	1	1279
BthCI	GCNG!C	34	149; 176; 221; 248; 356; 395; 434; 441; 476; 554; 608; 641; 737; 918; 1544; 1803; 1814; 1860; 1957; 2010; 2126; 2147; 2265; 2420; 2563; 2628; 2631; 2837; 3102; 3165; 3504; 3531; 3626; 3855
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BtsI	GCAGTGNN!	1	3511
BtsI	!CACTGC	1	3531
BtsCI	GGATGNN!	3	606; 810; 1899
BtsCI	!CATCC	7	545; 686; 698; 1193; 3090; 3271; 3558
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	308; 581
BveI	!NNNNNNNNGCAGGT	0	
Cac8I	GCN!NGC	15	151; 155; 377; 436; 471; 628; 788; 950; 1178; 1546; 2149; 2235; 2272; 2832; 3223
CaiI	CAGNNN!CTG	1	2634
CciI	T!CATGA	3	2938; 3946; 4051
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	414; 774; 1038; 1297; 3362
CdiI	C!GATG	2	1622; 3763
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	2	246; 2007
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	1	2270
CelII	GC!TNAGC	2	304; 840
CfoI	GCG!C	17	280; 632; 685; 1821; 1924; 1954; 2095; 2128; 2398; 2465; 2565; 2739; 2848; 3241; 3334; 3671; 4003
CfrI	Y!GGCCR	3	471; 1465; 3499
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	5	181; 469; 505; 814; 3191
Cfr13I	G!GNCC	9	243; 714; 715; 1742; 3153; 3232; 3249; 3471; 4087
Cfr42I	CCGC!GG	0	
ChaI	GATC!	22	125; 131; 168; 483; 531; 546; 598; 751; 866; 2788; 2863; 2874; 2882; 2960; 2972; 3077; 3418; 3436; 3482; 3740; 3757; 3793
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	2064; 2270; 2825; 4048
CjeI	!NNNNNNNNNACNNNNNNNTGG	4	873; 2711; 2789; 2889
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	4	907; 2745; 2823; 2923
CjeI	!NNNNNNNNCCANNNNNNNGT	4	2030; 2236; 2791; 4014
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	2	2776; 4048
CjePI	!NNNNNNNNGANNNNNNNTGG	4	2711; 2889; 3009; 3481
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	4	2744; 2922; 3042; 3514
CjePI	!NNNNNNNNCCANNNNNNNTC	2	2743; 4015
ClaI	AT!CGAT	0	
CpoI	CG!GWCCG	0	
CseI	GACGCNNNNN!	2	2329; 2907
CseI	!NNNNNNNNNNGCGTC	2	1913; 3637
CsiI	A!CCWGGT	0	
CspI	CG!GWCCG	0	
Csp6I	G!TAC	6	420; 780; 1078; 1616; 2025; 3590
Csp45I	TT!CGAA	0	
CspAI	A!CCGGT	0	
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2097
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	1	3445
CviAII	C!ATG	19	159; 249; 582; 669; 720; 1272; 1502; 1563; 1584; 1854; 1959; 2219; 2939; 3430; 3440; 3518; 3554; 3947; 4052
CviJI	RG!CY	73	149; 210; 245; 293; 308; 320; 326; 356; 395; 449; 455; 469; 473; 509; 608; 626; 641; 650; 665; 716; 765; 830; 839; 844; 948; 952; 972; 981; 1100; 1113; 1158; 1229; 1380; 1425; 1467; 1579; 1700; 1726; 1744; 1811; 1860; 1879; 1912; 1957; 1997; 2141; 2160; 2233; 2244; 2262; 2288; 2386; 2522; 2527; 2552; 2631; 2696; 2707; 2750; 2779; 3099; 3142; 3154; 3195; 3221; 3225; 3234; 3300; 3390; 3400; 3463; 3501; 4088
CviKI-1	RG!CY	73	149; 210; 245; 293; 308; 320; 326; 356; 395; 449; 455; 469; 473; 509; 608; 626; 641; 650; 665; 716; 765; 830; 839; 844; 948; 952; 972; 981; 1100; 1113; 1158; 1229; 1380; 1425; 1467; 1579; 1700; 1726; 1744; 1811; 1860; 1879; 1912; 1957; 1997; 2141; 2160; 2233; 2244; 2262; 2288; 2386; 2522; 2527; 2552; 2631; 2696; 2707; 2750; 2779; 3099; 3142; 3154; 3195; 3221; 3225; 3234; 3300; 3390; 3400; 3463; 3501; 4088
CviQI	G!TAC	6	420; 780; 1078; 1616; 2025; 3590

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DdeI	C!TNAG	13	304; 840; 877; 973; 1421; 1727; 1783; 2028; 2493; 2902; 3068; 3608; 4034
DinI	GGC!GCC	1	279
DpnI	GA!TC	22	123; 129; 166; 481; 529; 544; 596; 749; 864; 2786; 2861; 2872; 2880; 2958; 2970; 3075; 3416; 3434; 3480; 3738; 3755; 3791
DpnII	!GATC	22	121; 127; 164; 479; 527; 542; 594; 747; 862; 2784; 2859; 2870; 2878; 2956; 2968; 3073; 3414; 3432; 3478; 3736; 3753; 3789
DraI	TTT!AAA	5	1120; 1459; 2977; 2996; 3688
DraII	RG!GNCCY	2	714; 4087
DraIII	CACNNN!GTG	0	
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	0	
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	1	2662
DrdI	GACNNN!NNGTC	2	1913; 2326
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	1	3111
DseDI	GACNNN!NNGTC	2	1913; 2326
EaeI	Y!GGCCR	3	471; 1465; 3499
EagI	C!GGCCG	1	471
Eam1104I	CTCTCN!	2	2102; 3906
Eam1104I	!NNNNGAAGAG	1	259
Eam1105I	GACNNN!NNGTC	1	3111
EarI	CTCTCN!	2	2102; 3906
EarI	!NNNNGAAGAG	1	259
EciI	GGCGANNNNNNNNNNNN!	1	236
EciI	!NNNNNNNNNTCCGCC	5	721; 1787; 2280; 2426; 3254
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	1	471
Eco24I	GRGCY!C	1	718
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	1	3172
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3249; 3471
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	1	471
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	1	2766
Eco57I	!NNNNNNNNNNNNNNNCTTCAG	4	273; 435; 606; 3778
Eco72I	CAC!GTG	2	312; 444
Eco81I	CC!TNAGG	0	
Eco88I	C!YCGRG	3	1; 235; 514
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	3	158; 581; 1501
Eco147I	AGG!CCT	0	
EcoHI	!CCSGG	7	800; 918; 1862; 1897; 2596; 3292; 3643
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	2	1322; 2766
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	273; 435; 606; 3181; 3778
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	714; 4087
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	6	1375; 1431; 1679; 2244; 2365; 2378
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	3	158; 581; 1501
EcoT22I	ATGCA!T	0	
EcoT38I	GRGCY!C	1	718
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	1	279
EheI	GGC!GCC	1	279
ErhI	C!CWWGG	3	158; 581; 1501
EsaBC3I	TC!GA	7	3; 168; 207; 414; 1733; 2319; 3763
Esp3I	CGTCTCN!	1	1424

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Esp3I	!NNNNNGAGACG	1	1861
FaeI	CATG!	19	162; 252; 585; 672; 723; 1275; 1505; 1566; 1587; 1857; 1962; 2222; 2942; 3433; 3443; 3521; 3557; 3950; 4055
FaiI	YA!TR	51	12; 49; 115; 160; 250; 583; 670; 721; 1009; 1023; 1084; 1209; 1238; 1273; 1341; 1343; 1410; 1473; 1503; 1516; 1564; 1585; 1855; 1960; 1991; 2005; 2041; 2043; 2220; 2284; 2357; 2662; 2940; 3012; 3014; 3016; 3096; 3387; 3431; 3441; 3519; 3525; 3538; 3555; 3621; 3676; 3897; 3948; 3960; 4053; 4066
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	0	
FalI	!NNNNNNNNNAAGNNNNNCTT	0	
FaqI	GGGACNNNNNNNNNN!	0	
FaqI	!NNNNNNNNNNNNNGTCCC	0	
FatI	!CATG	19	158; 248; 581; 668; 719; 1271; 1501; 1562; 1583; 1853; 1958; 2218; 2938; 3429; 3439; 3517; 3553; 3946; 4051
FauI	CCCGCNNNN!	4	162; 415; 622; 1185
FauI	!NNNNNGCGGG	2	1629; 1923
FauNDI	CA!TATG	1	2041
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	1990
FmuI	GGNC!C	9	246; 717; 718; 1745; 3156; 3235; 3252; 3474; 4090
Fnu4HI	GC!NGC	34	147; 174; 219; 246; 354; 393; 432; 439; 474; 552; 606; 639; 735; 916; 1542; 1801; 1812; 1858; 1955; 2008; 2124; 2145; 2263; 2418; 2561; 2626; 2629; 2835; 3100; 3163; 3502; 3529; 3624; 3853
FokI	GGATGNNNNNNNN!	3	613; 817; 1906
FokI	!NNNNNNNNNNNNNCATCC	6	532; 673; 1180; 3077; 3258; 3545
FriOI	GRGCY!C	1	718
FseI	GGCCGG!CC	1	473
FspI	TGC!GCA	1	3333
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	6	949; 1697; 1806; 2713; 2966; 3301
FspEI	CCNNNNNNNNNNNN!	124	13; 144; 163; 187; 201; 246; 267; 285; 300; 322; 346; 361; 379; 393; 414; 472; 487; 519; 549; 573; 592; 627; 666; 699; 715; 730; 745; 774; 796; 813; 828; 866; 889; 929; 957; 1025; 1040; 1094; 1127; 1168; 1190; 1210; 1266; 1284; 1326; 1389; 1439; 1460; 1481; 1502; 1555; 1580; 1596; 1683; 1758; 1795; 1811; 1828; 1858; 1876; 1911; 1926; 1971; 2052; 2071; 2097; 2114; 2201; 2247; 2265; 2295; 2309; 2358; 2379; 2402; 2416; 2431; 2445; 2460; 2531; 2554; 2571; 2585; 2606; 2632; 2710; 2764; 2801; 2816; 2887; 2978; 3054; 3076; 3107; 3123; 3160; 3187; 3205; 3231; 3248; 3265; 3281; 3306; 3331; 3359; 3416; 3449; 3479; 3515; 3571; 3611; 3643; 3657; 3680; 3757; 3784; 3827; 3866; 3918; 4012; 4026; 4055; 4076; 4102
FspEI	!NNNNNNNNNNNNNNNGG	119	21; 53; 85; 104; 131; 167; 196; 226; 260; 301; 323; 374; 409; 451; 478; 502; 550; 568; 587; 620; 640; 695; 724; 751; 787; 831; 875; 894; 918; 939; 960; 988; 1016; 1038; 1086; 1140; 1182; 1207; 1286; 1310; 1341; 1362; 1418; 1449; 1488; 1507; 1530; 1561; 1613; 1639; 1666; 1689; 1708; 1726; 1753; 1773; 1811; 1849; 1876; 1903; 1922; 1967; 1992; 2030; 2057; 2075; 2115; 2136; 2154; 2182; 2215; 2244; 2270; 2318; 2352; 2410; 2436; 2471; 2490; 2508; 2557; 2583; 2607; 2627; 2650; 2675; 2702; 2746; 2773; 2791; 2842; 2874; 2911; 2939; 3011; 3042; 3119; 3177; 3211; 3232; 3278; 3340; 3367; 3388; 3441; 3483; 3504; 3568; 3608; 3630; 3688; 3719; 3808; 3827; 3846; 3918; 3937; 3976; 4058
Fsp4HI	GC!NGC	34	147; 174; 219; 246; 354; 393; 432; 439; 474; 552; 606; 639; 735; 916; 1542; 1801; 1812; 1858; 1955; 2008; 2124; 2145; 2263; 2418; 2561; 2626; 2629; 2835; 3100; 3163; 3502; 3529; 3624; 3853
GdiII	C!GGCCR	1	471
GdiII	Y!GGCCG	2	471; 3499
GlaI	GC!GC	17	279; 631; 684; 1820; 1923; 1953; 2094; 2127; 2397; 2464; 2564; 2738; 2847; 3240; 3333; 3670; 4002
Glul	GC!NGC	34	147; 174; 219; 246; 354; 393; 432; 439; 474; 552; 606; 639; 735; 916; 1542; 1801; 1812; 1858; 1955; 2008; 2124; 2145; 2263; 2418; 2561; 2626; 2629; 2835; 3100; 3163; 3502; 3529; 3624; 3853
GsaI	CCCAG!C	2	353; 698
GsaI	GCTGG!G	2	769; 2526

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	1322
GsuI	!NNNNNNNNNNNNNNNCTCCAG	1	3181
HaeI	WGG!CCW	5	1380; 1467; 2233; 2244; 2696
HaeII	RGCGC!Y	4	281; 686; 2096; 2466
HaeIII	GG!CC	18	149; 245; 469; 473; 716; 1113; 1158; 1380; 1467; 1744; 2233; 2244; 2262; 2696; 3154; 3234; 3501; 4088
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	1	3130
HaeIV	!NNNNNNNNNGAYNNNNNRTC	1	3096
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	1	3129
HaeIV	!NNNNNNNGAYNNNNNRTC	1	3098
HapII	C!CGG	20	182; 470; 506; 802; 815; 919; 1155; 1197; 1325; 1864; 1898; 2425; 2572; 2598; 2788; 3192; 3226; 3293; 3403; 3645
HgaI	GACGCNNNNN!	2	2329; 2907
HgaI	!NNNNNNNNNNNGCGTC	2	1913; 3637
HhaI	GCG!C	17	280; 632; 685; 1821; 1924; 1954; 2095; 2128; 2398; 2465; 2565; 2739; 2848; 3241; 3334; 3671; 4003
Hin1I	GR!CGYC	3	278; 3648; 4030
Hin1II	CATG!	19	162; 252; 585; 672; 723; 1275; 1505; 1566; 1587; 1857; 1962; 2222; 2942; 3433; 3443; 3521; 3557; 3950; 4055
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1207; 3129; 3203
Hin4I	!NNNNNNNNGABNNNNNRTC	1	3097
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	1	3129
Hin4I	!NNNNNNNNGAYNNNNNVTC	3	1175; 3097; 3171
Hin6I	G!CGC	17	278; 630; 683; 1819; 1922; 1952; 2093; 2126; 2396; 2463; 2563; 2737; 2846; 3239; 3332; 3669; 4001
HinP1I	G!CGC	17	278; 630; 683; 1819; 1922; 1952; 2093; 2126; 2396; 2463; 2563; 2737; 2846; 3239; 3332; 3669; 4001
HincII	GTY!RAC	0	
HindII	GTY!RAC	0	
HindIII	A!AGCTT	1	828
HinfI	G!ANTC	9	55; 849; 940; 1550; 1691; 2118; 2193; 2589; 3106
HpaI	GTT!AAC	0	
HpaII	C!CGG	20	182; 470; 506; 802; 815; 919; 1155; 1197; 1325; 1864; 1898; 2425; 2572; 2598; 2788; 3192; 3226; 3293; 3403; 3645
HphI	GGTGANNNNNNNN!	10	507; 829; 947; 1236; 1380; 1448; 1782; 1840; 3597; 3838
HphI	!NNNNNNNTCACC	10	171; 525; 603; 1242; 1436; 1490; 2954; 3181; 3803; 4092
Hpy8I	GTN!NAC	8	660; 1250; 1773; 1991; 2036; 2534; 3022; 3780
Hpy99I	CGWCG!	6	142; 637; 1320; 2323; 3117; 3380
Hpy166II	GTN!NAC	8	660; 1250; 1773; 1991; 2036; 2534; 3022; 3780
Hpy188I	TCN!GA	13	132; 880; 902; 1849; 2015; 2332; 2410; 2763; 2897; 3032; 3478; 3489; 3609
Hpy188III	TC!NNGA	22	3; 125; 414; 598; 678; 795; 890; 967; 1197; 1301; 1782; 1806; 2452; 2586; 2684; 2782; 2865; 2939; 3198; 3947; 4052; 4082
HpyAV	CCTTCNNNNNN!	8	297; 378; 630; 738; 801; 2458; 2768; 3476
HpyAV	!NNNNNGAAGG	3	2710; 3223; 3835
HpyCH4III	ACN!GT	15	564; 1016; 1094; 1127; 1224; 1265; 1368; 1615; 1837; 1872; 2182; 2253; 2723; 3036; 3551
HpyCH4IV	A!CGT	9	311; 443; 1287; 1462; 1971; 2921; 3337; 3710; 4030
HpyCH4V	TG!CA	15	375; 441; 576; 672; 705; 808; 1857; 2036; 2534; 2830; 3165; 3255; 3448; 3536; 3780
HpyF3I	C!TNAG	13	304; 840; 877; 973; 1421; 1727; 1783; 2028; 2493; 2902; 3068; 3608; 4034
HpyF10VI	GCNNNNN!NNGC	18	33; 143; 182; 227; 275; 482; 614; 638; 836; 954; 978; 1541; 2042; 2092; 2157; 2271; 2843; 3231
Hsp92I	GR!CGYC	3	278; 3648; 4030
Hsp92II	CATG!	19	162; 252; 585; 672; 723; 1275; 1505; 1566; 1587; 1857; 1962; 2222; 2942; 3433; 3443; 3521; 3557; 3950; 4055
HspAI	G!CGC	17	278; 630; 683; 1819; 1922; 1952; 2093; 2126; 2396; 2463; 2563; 2737; 2846; 3239; 3332; 3669; 4001
KasI	G!GCGCC	1	277
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1196
KspI	CCG!GG	0	
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kzo9I	!GATC	22	121; 127; 164; 479; 527; 542; 594; 747; 862; 2784; 2859; 2870; 2878; 2956; 2968; 3073; 3414; 3432; 3478; 3736; 3753; 3789
LguI	GCTCTTCN!	1	2102
LguI	!NNNNGAAGAGC	1	259
LpnI	RGC!GCGY	4	279; 684; 2094; 2464
LpnPI	CCDGNNNNNNNNN!	50	163; 195; 295; 313; 363; 385; 483; 519; 586; 640; 708; 796; 815; 866; 932; 1101; 1168; 1194; 1210; 1338; 1389; 1445; 1460; 1693; 1795; 1877; 1911; 1978; 2247; 2311; 2379; 2416; 2438; 2585; 2611; 2764; 2801; 3116; 3170; 3205; 3231; 3265; 3288; 3306; 3331; 3416; 3658; 3770; 3827; 4039
LpnPI	!NNNNNNNNNNNNNNCHGG	52	167; 196; 226; 455; 491; 583; 751; 787; 875; 904; 952; 988; 1086; 1140; 1182; 1215; 1286; 1310; 1362; 1418; 1530; 1617; 1666; 1725; 1849; 1883; 1903; 1979; 2075; 2182; 2231; 2256; 2335; 2365; 2410; 2508; 2557; 2583; 2607; 2627; 2773; 2791; 3136; 3177; 3211; 3278; 3340; 3388; 3568; 3630; 3808; 3918
Lsp1109I	GCAGCNNNNNNNN!	7	563; 617; 1869; 1966; 2637; 2846; 3540
Lsp1109I	!NNNNNNNNNNNNNGCTGC	7	425; 1798; 2110; 2128; 2547; 3086; 3149
LweI	GCATCNNNNNN!	11	185; 419; 707; 779; 1043; 1716; 2019; 2095; 2315; 3367; 3807
LweI	!NNNNNNNNNNNGATGC	5	795; 1528; 1884; 2055; 3558
MabI	A!CCWGGT	0	
MaeI	C!TAG	6	949; 1697; 1806; 2713; 2966; 3301
MaeII	A!CGT	9	311; 443; 1287; 1462; 1971; 2921; 3337; 3710; 4030
MaeIII	!GTNAC	12	1257; 1362; 1872; 1967; 2574; 2637; 2753; 3036; 3367; 3425; 3578; 3766
MalI	GA!TC	22	123; 129; 166; 481; 529; 544; 596; 749; 864; 2786; 2861; 2872; 2880; 2958; 2970; 3075; 3416; 3434; 3480; 3738; 3755; 3791
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	1	1803
MbiI	GAG!CGG	5	36; 68; 146; 2151; 3952
MboI	!GATC	22	121; 127; 164; 479; 527; 542; 594; 747; 862; 2784; 2859; 2870; 2878; 2956; 2968; 3073; 3414; 3432; 3478; 3736; 3753; 3789
MboII	GAAGANNNNNNNN!	3	276; 832; 2880
MboII	!NNNNNNNTCTTC	8	522; 1475; 2089; 2951; 3706; 3784; 3893; 4089
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	59
MfiI	R!GATCY	8	127; 862; 2859; 2870; 2956; 2968; 3736; 3753
MhiI	GDGCH!C	10	232; 271; 505; 572; 718; 1671; 2038; 2536; 3697; 3782
MisI	TGG!CCA	1	1467
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	1467
MlyI	GAGTCNNNNNN!	1	2598
MlyI	!NNNNNGACTC	4	843; 1685; 2112; 3100
Mly113I	GG!CGCC	1	278
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	2	2433; 2617
MmeI	!NNNNNNNNNNNNNNNNNNNNNGTYGGA	0	
MniI	CCTCNNNNNNNN!	8	10; 886; 1825; 1855; 2117; 2400; 3278; 3484
MniI	!NNNNNGAGG	14	93; 112; 219; 417; 459; 510; 735; 1046; 1697; 2326; 2650; 3050; 3131; 4078
Mph1103I	ATGCA!T	0	
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1196
MroNI	G!CCGGC	1	469
MroXI	GAANN!NNTTC	2	367; 3710
MscI	TGG!CCA	1	1467
MseI	T!TAA	18	95; 109; 832; 1119; 1458; 1600; 1652; 1673; 1999; 2924; 2976; 2981; 2995; 3048; 3283; 3322; 3687; 4059
MslI	CAYNN!NNRTG	3	3363; 3522; 3881
MspI	C!CGG	20	182; 470; 506; 802; 815; 919; 1155; 1197; 1325; 1864; 1898; 2425; 2572; 2598; 2788; 3192; 3226; 3293; 3403; 3645
Msp20I	TGG!CCA	1	1467
MspA1I	CMG!CKG	7	353; 1100; 1544; 1930; 2560; 2805; 3746
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRRNNNNNNNNNN!	200	13; 49; 81; 94; 137; 153; 166; 180; 194; 210; 223; 247; 261; 284; 308; 322; 356; 372; 388; 413; 426; 447; 477; 504; 518; 537; 552; 576; 592; 610; 626; 639; 666; 679; 706; 723; 748; 763; 778; 795; 813; 827; 843; 857; 878; 891; 913; 931; 956; 970; 985; 1015; 1039; 1084; 1100; 1113; 1139; 1155; 1179; 1193; 1209; 1242; 1267; 1284; 1313; 1326; 1350; 1372; 1388; 1401; 1433; 1459; 1475; 1503; 1520; 1533; 1548; 1566; 1596; 1611; 1644; 1684; 1709; 1723; 1739; 1752; 1794; 1818; 1832; 1860; 1875; 1892; 1910; 1925; 1943; 1960; 1976; 1995; 2010; 2026; 2040; 2071; 2097; 2120; 2141; 2160; 2173; 2201; 2219; 2239; 2257; 2276; 2295; 2310; 2324; 2338; 2352; 2378; 2391; 2405; 2421; 2437; 2464; 2482; 2505; 2530; 2547; 2565; 2579; 2598; 2619; 2634; 2647; 2663; 2689; 2709; 2725; 2757; 2774; 2794; 2808; 2843; 2857; 2875; 2902; 2924; 2951; 2977; 3017; 3037; 3053; 3075; 3107; 3123; 3147; 3163; 3187; 3200; 3230; 3247; 3264; 3287; 3305; 3330; 3345; 3367; 3382; 3415; 3430; 3450; 3489; 3515; 3528; 3549; 3566; 3595; 3610; 3642; 3656; 3669; 3685; 3708; 3730; 3743; 3769; 3783; 3796; 3826; 3844; 3858; 3889; 3906; 3945; 3959; 3999; 4012; 4025; 4038; 4064; 4089
MspJI	!NNNNNNNNNNNNNNYNG	173	10; 49; 100; 118; 136; 154; 175; 193; 221; 244; 268; 286; 303; 323; 344; 362; 393; 421; 438; 456; 478; 500; 526; 550; 568; 600; 617; 638; 655; 681; 706; 724; 748; 769; 787; 822; 839; 864; 881; 905; 923; 940; 960; 989; 1036; 1074; 1095; 1125; 1159; 1182; 1212; 1241; 1258; 1286; 1310; 1332; 1351; 1389; 1408; 1433; 1458; 1477; 1503; 1531; 1549; 1570; 1606; 1623; 1650; 1667; 1687; 1714; 1734; 1754; 1774; 1792; 1811; 1833; 1850; 1870; 1895; 1913; 1933; 1951; 1980; 1999; 2028; 2053; 2075; 2094; 2111; 2129; 2165; 2182; 2205; 2231; 2250; 2271; 2289; 2312; 2331; 2352; 2377; 2394; 2411; 2436; 2465; 2484; 2505; 2530; 2548; 2572; 2593; 2621; 2642; 2670; 2689; 2713; 2737; 2759; 2792; 2809; 2829; 2851; 2874; 2906; 2925; 2952; 3001; 3038; 3055; 3089; 3114; 3136; 3161; 3178; 3204; 3222; 3250; 3279; 3300; 3317; 3341; 3360; 3383; 3404; 3426; 3446; 3473; 3504; 3540; 3562; 3585; 3606; 3626; 3643; 3689; 3719; 3737; 3761; 3781; 3800; 3824; 3854; 3918; 3935; 3960; 3977; 3998; 4021; 4038; 4059; 4079
MspR9I	CC!NGG	13	802; 920; 1377; 1433; 1681; 1864; 1899; 2246; 2367; 2380; 2598; 3294; 3645
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	59
MvaI	CC!WGG	6	1377; 1433; 1681; 2246; 2367; 2380
MvaI269I	GAATGCN!	2	1193; 1600
MvaI269I	G!CATTC	0	
MvnI	CG!CG	11	476; 632; 737; 1819; 1821; 1924; 2265; 2846; 3176; 3669; 4001
MvrI	CGAT!CG	1	3481
MwoI	GCNNNNN!NNGC	18	33; 143; 182; 227; 275; 482; 614; 638; 836; 954; 978; 1541; 2042; 2092; 2157; 2271; 2843; 3231
NaeI	GCC!GGC	1	471
NarI	GG!CGCC	1	278
NciI	CC!SGG	7	802; 920; 1864; 1899; 2598; 3294; 3645
NcoI	C!CATGG	3	158; 581; 1501
NdeI	CA!TATG	1	2041
NdeII	!GATC	22	121; 127; 164; 479; 527; 542; 594; 747; 862; 2784; 2859; 2870; 2878; 2956; 2968; 3073; 3414; 3432; 3478; 3736; 3753; 3789
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	2	3357; 3582
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	2	3393; 3618
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	1	469
NheI	G!CTAGC	1	948
NlaIII	CATG!	19	162; 252; 585; 672; 723; 1275; 1505; 1566; 1587; 1857; 1962; 2222; 2942; 3433; 3443; 3521; 3557; 3950; 4055
NlaIV	GGN!NCC	16	129; 186; 231; 279; 342; 504; 715; 717; 1668; 2250; 2289; 3061; 3155; 3196; 3407; 3997
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	2	201; 2331
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	295; 478; 1555; 1811
Nli3877I	CYCGR!G	3	5; 239; 518
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	1	3260

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmeAIII	!NNNNNNNNNNNNNNNNNNNNCTCGGC	0	
NmeDI	RCCGGYNNNNNNNN!	5	193; 481; 517; 826; 3203
NmeDI	!NNNNNNNNNNNNRCCGGY	5	168; 456; 492; 801; 3178
NmuCI	!GTSAC	4	1872; 1967; 3367; 3578
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3333
NsiI	ATGCA!T	0	
NspI	RCATG!Y	3	672; 1857; 2222
NspV	TT!CGAA	0	
OliI	CACNN!NNGTG	0	
PabI	GTA!C	6	422; 782; 1080; 1618; 2027; 3592
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	0	
PaeR7I	C!TCGAG	1	1
PagI	T!CATGA	3	2938; 3946; 4051
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	1	1432
PauI	G!CGCGC	0	
PceI	AGG!CCT	0	
PciI	A!CATGT	1	2218
PciSI	GCTCTCN!	1	2102
PciSI	!NNNNGAAGAGC	1	259
PcsI	WCGNNNN!NNNCGW	4	419; 2144; 2542; 3419
PctI	GAATGCN!	2	1193; 1600
PctI	G!CATT	0	
PdiI	GCC!GGC	1	471
PdmI	GAANN!NNTTC	2	367; 3710
PfeI	G!AWTC	4	55; 940; 1550; 2193
Pfi23II	C!GTACG	0	
PfifI	GACN!NNGTC	1	1965
PfIMI	CCANNNN!NTGG	2	315; 1432
PfoI	T!CCNGGA	1	1862
PhoI	GG!CC	18	149; 245; 469; 473; 716; 1113; 1158; 1380; 1467; 1744; 2233; 2244; 2262; 2696; 3154; 3234; 3501; 4088
PinAI	A!CCGGT	0	
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	2	2037; 2113
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	1162; 1516
PleI	GAGTCNNNN!	1	2597
PleI	!NNNNNGACTC	4	843; 1685; 2112; 3100
Ple19I	CGAT!CG	1	3481
PmaCI	CAC!GTG	2	312; 444
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	2	312; 444
PpiI	GAACNNNNCTCNNNNNNNNNNNNNN!	1	2933
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	3743
PpiI	GAGNNNNGTTCNNNNNNNNNNNNNN!	1	3775
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2901
PpsI	GAGTCNNNN!	1	2597
PpsI	!NNNNNGACTC	4	843; 1685; 2112; 3100
Ppu10I	A!TGCAT	0	
Ppu21I	YAC!GTR	3	312; 444; 1972
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	2218
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	3283
PsiI	TTA!TAA	1	49
Psp03I	GGWC!C	2	3252; 3474
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	6	1375; 1431; 1679; 2244; 2365; 2378
Psp1406I	AA!CGTT	3	1287; 3337; 3710
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	2	312; 444
PspEI	G!GTNACC	0	
PspGI	!CCWGG	6	1375; 1431; 1679; 2244; 2365; 2378

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	16	129; 186; 231; 279; 342; 504; 715; 717; 1668; 2250; 2289; 3061; 3155; 3196; 3407; 3997
PspOMI	G!GGCCC	1	714
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	0	
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	0	
PspPI	G!GNCC	9	243; 714; 715; 1742; 3153; 3232; 3249; 3471; 4087
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	4	368; 713; 896; 3175
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	1	1667
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNNGTTC	0	
PsrI	GTANNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	717; 4090
PstI	CTGCA!G	1	707
PstNI	CAGNNN!CTG	1	2634
PsuI	R!GATCY	8	127; 862; 2859; 2870; 2956; 2968; 3736; 3753
PsyI	GACN!NNGTC	1	1965
PteI	G!CGCGC	0	
PvuI	CGAT!CG	1	3481
PvuII	CAG!CTG	1	1100
RcaI	T!CATGA	3	2938; 3946; 4051
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	0	
RceI	!NNNNNNNNNNNNNNNNNGTCCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	1	473
RleAI	CCCACANNNNNNNNNNNNNN!	0	
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	2	449; 542
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	421; 781; 1079; 1617; 2026; 3591
RsaNI	G!TAC	6	420; 780; 1078; 1616; 2025; 3590
RseI	CAYNN!NNRTG	3	3363; 3522; 3881
RsrII	CG!GWCCG	0	
Rsr2I	CG!GWCCG	0	
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	1	2102
SapI	!NNNNGAAGAGC	1	259
SaqAI	T!TAA	18	95; 109; 832; 1119; 1458; 1600; 1652; 1673; 1999; 2924; 2976; 2981; 2995; 3048; 3283; 3322; 3687; 4059
SatI	GC!NGC	34	147; 174; 219; 246; 354; 393; 432; 439; 474; 552; 606; 639; 735; 916; 1542; 1801; 1812; 1858; 1955; 2008; 2124; 2145; 2263; 2418; 2561; 2626; 2629; 2835; 3100; 3163; 3502; 3529; 3624; 3853
Sau96I	G!GNCC	9	243; 714; 715; 1742; 3153; 3232; 3249; 3471; 4087
Sau3AI	!GATC	22	121; 127; 164; 479; 527; 542; 594; 747; 862; 2784; 2859; 2870; 2878; 2956; 2968; 3073; 3414; 3432; 3478; 3736; 3753; 3789
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	2	1617; 3591
SchI	GAGTCNNNNN!	1	2598
SchI	!NNNNNGACTC	4	843; 1685; 2112; 3100
SciI	CTC!GAG	1	3
ScrFI	CC!INGG	13	802; 920; 1377; 1433; 1681; 1864; 1899; 2246; 2367; 2380; 2598; 3294; 3645
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	3	993; 3268; 3514
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	3	831; 1760; 2381
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SdeOSI	!NNNNNNNNNTCAYNNNNNGTC	1	3358
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	1	3392
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	10	232; 271; 505; 572; 718; 1671; 2038; 2536; 3697; 3782
SelI	!CGCG	11	474; 630; 735; 1817; 1819; 1922; 2263; 2844; 3174; 3667; 3999
SetI	ASST!	59	2; 212; 289; 302; 314; 346; 446; 451; 457; 497; 575; 610; 622; 652; 767; 832; 841; 846; 878; 950; 954; 974; 983; 1083; 1102; 1231; 1290; 1378; 1465; 1534; 1558; 1702; 1813; 1847; 1862; 1881; 1974; 2162; 2337; 2388; 2434; 2490; 2509; 2524; 2661; 2760; 2781; 2924; 2967; 3065; 3101; 3302; 3340; 3402; 3465; 3713; 4028; 4033; 4065
SexAI	A!CCWGGT	0	
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	11	185; 419; 707; 779; 1043; 1716; 2019; 2095; 2315; 3367; 3807
SfaNI	!NNNNNNNNNGATGC	5	795; 1528; 1884; 2055; 3558
SfcI	C!TRYAG	5	645; 703; 2483; 2674; 3352
SfiI	GGCCNNNN!NGGCC	0	
SfoI	GGC!GCC	1	279
Sfr274I	C!TCGAG	1	1
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	0	
SgeI	CNNGNNNNNNNNN!	155	13; 137; 153; 166; 180; 194; 210; 223; 247; 261; 294; 312; 362; 384; 419; 435; 454; 477; 504; 518; 537; 552; 576; 594; 610; 626; 639; 666; 681; 707; 723; 748; 774; 795; 813; 827; 857; 878; 902; 920; 957; 970; 1015; 1100; 1113; 1157; 1185; 1209; 1242; 1267; 1284; 1313; 1326; 1362; 1388; 1444; 1459; 1475; 1503; 1533; 1557; 1575; 1596; 1644; 1692; 1709; 1752; 1794; 1818; 1832; 1866; 1892; 1910; 1925; 1943; 1960; 1977; 2006; 2102; 2120; 2141; 2160; 2209; 2231; 2246; 2276; 2310; 2338; 2357; 2378; 2391; 2405; 2426; 2444; 2464; 2491; 2531; 2547; 2565; 2584; 2598; 2619; 2634; 2647; 2668; 2696; 2725; 2763; 2794; 2818; 2843; 2857; 2877; 2902; 2932; 2951; 2978; 3037; 3115; 3128; 3147; 3163; 3187; 3204; 3230; 3248; 3264; 3287; 3305; 3330; 3367; 3382; 3415; 3430; 3452; 3530; 3566; 3595; 3611; 3643; 3656; 3669; 3730; 3745; 3769; 3787; 3826; 3850; 3889; 3945; 3959; 4012; 4038; 4064; 4094
SgeI	!NNNNNNNNNNNNCNG	134	111; 136; 154; 175; 193; 221; 244; 268; 286; 336; 358; 393; 421; 451; 478; 500; 526; 550; 568; 600; 617; 640; 664; 681; 706; 724; 748; 769; 787; 831; 852; 876; 894; 931; 953; 989; 1074; 1131; 1159; 1183; 1216; 1241; 1258; 1287; 1311; 1336; 1362; 1418; 1449; 1477; 1507; 1531; 1549; 1570; 1618; 1666; 1683; 1726; 1768; 1792; 1840; 1866; 1884; 1904; 1927; 1945; 1980; 2076; 2094; 2115; 2134; 2183; 2205; 2231; 2250; 2284; 2312; 2331; 2352; 2377; 2400; 2418; 2438; 2465; 2505; 2530; 2558; 2583; 2608; 2628; 2670; 2699; 2737; 2768; 2792; 2817; 2851; 2876; 2906; 2925; 2952; 3011; 3089; 3121; 3143; 3161; 3178; 3204; 3222; 3261; 3279; 3304; 3341; 3360; 3389; 3409; 3426; 3504; 3540; 3569; 3617; 3643; 3704; 3743; 3761; 3800; 3824; 3863; 3919; 3986; 4012; 4038; 4068; 4090
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	1	2893
SimI	!GACCC	4	797; 1961; 2410; 3179
SinI	G!GWCC	2	3249; 3471
SlaI	C!TCGAG	1	1
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	3	3363; 3522; 3881
SmlI	C!TYRAG	6	1; 1701; 2324; 2586; 2863; 3731
SmoI	C!TYRAG	6	1; 1701; 2324; 2586; 2863; 3731
SmuI	CCCGCNNNN!	4	162; 415; 622; 1185
SmuI	!NNNNNNNGCGGG	2	1629; 1923
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	0	
SrfI	GCCC!GGGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sse9I	!AATT	13	17; 44; 59; 76; 88; 106; 833; 1200; 1605; 1644; 2978; 3284; 3539
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	0	
SsiI	C!CGC	31	155; 174; 246; 408; 459; 474; 549; 615; 732; 735; 916; 1178; 1542; 1798; 1801; 2058; 2084; 2101; 2263; 2291; 2418; 2437; 2558; 2803; 3174; 3265; 3502; 3667; 3744; 3853; 3999
SsiI	G!CGG	24	36; 68; 146; 218; 221; 353; 392; 431; 638; 1636; 1891; 1930; 1940; 1982; 2007; 2045; 2144; 2151; 2172; 2668; 2812; 3456; 3623; 3952
SspI	AAT!ATT	2	1512; 3915
SspDI	G!GCGCC	1	277
SspD5I	GGTGANNNNNNNN!	10	507; 829; 947; 1236; 1380; 1448; 1782; 1840; 3597; 3838
SspD5I	!NNNNNNNNNTCACC	10	170; 524; 602; 1241; 1435; 1489; 2953; 3180; 3802; 4091
SstI	GAGCT!C	0	
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	17	161; 242; 414; 521; 621; 808; 1184; 1498; 1870; 1920; 2352; 2551; 2560; 2604; 3118; 3651; 4019
Sth132I	!NNNNNNNNCCGGG	13	116; 702; 911; 1628; 1890; 1922; 1939; 2443; 2881; 3126; 3285; 3648; 3709
Sth302II	CC!GG	20	183; 471; 507; 803; 816; 920; 1156; 1198; 1326; 1865; 1899; 2426; 2573; 2599; 2789; 3193; 3227; 3294; 3404; 3646
StrI	C!TCGAG	1	1
StsI	GGATGNNNNNNNNNN!	3	614; 818; 1907
StsI	!NNNNNNNNNNNNNNCATCC	6	531; 672; 1179; 3076; 3257; 3544
StuI	AGG!CCT	0	
StyI	C!CWWGG	3	158; 581; 1501
StyD4I	!CCNGG	13	800; 918; 1375; 1431; 1679; 1862; 1897; 2244; 2365; 2378; 2596; 3292; 3643
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	564; 1016; 1094; 1127; 1224; 1265; 1368; 1615; 1837; 1872; 2182; 2253; 2723; 3036; 3551
TaiI	ACGT!	9	314; 446; 1290; 1465; 1974; 2924; 3340; 3713; 4033
TaqI	T!CGA	7	2; 167; 206; 413; 1732; 2318; 3762
TaqII	GACCGANNNNNNNNNN!	1	3644
TaqII	!NNNNNNNNNTCGGTC	2	2120; 3459
TaqII	CACCCANNNNNNNNNN!	1	3797
TaqII	!NNNNNNNNNTGGGTG	2	1424; 3814
TasI	!AATT	13	17; 44; 59; 76; 88; 106; 833; 1200; 1605; 1644; 2978; 3284; 3539
TatI	W!GTACW	3	1615; 2024; 3589
TauI	GCSG!C	20	149; 176; 221; 248; 356; 395; 434; 476; 641; 737; 918; 1544; 1803; 2010; 2147; 2265; 2420; 3504; 3626; 3855
TfiI	G!AWTC	4	55; 940; 1550; 2193
TliI	C!TCGAG	1	1
TruII	T!TAA	18	95; 109; 832; 1119; 1458; 1600; 1652; 1673; 1999; 2924; 2976; 2981; 2995; 3048; 3283; 3322; 3687; 4059
Tru9I	T!TAA	18	95; 109; 832; 1119; 1458; 1600; 1652; 1673; 1999; 2924; 2976; 2981; 2995; 3048; 3283; 3322; 3687; 4059
TscAI	CASTGNN!	9	1007; 2120; 2626; 2639; 2910; 3059; 3164; 3511; 3538
TseI	G!CWGC	15	438; 551; 605; 1811; 1857; 1954; 2123; 2141; 2560; 2625; 2628; 2834; 3099; 3162; 3528
TsoI	TARCCANNNNNNNNNN!	1	1101
TsoI	!NNNNNNNNNTGGYTA	1	3510
Tsp45I	!GTSAC	4	1872; 1967; 3367; 3578
Tsp509I	!AATT	13	17; 44; 59; 76; 88; 106; 833; 1200; 1605; 1644; 2978; 3284; 3539
TspDTI	ATGAANNNNNNNNNN!	6	277; 840; 1200; 1230; 1618; 3002
TspDTI	!NNNNNNNNNTTCAT	4	1282; 1548; 3079; 3382
TspEI	!AATT	13	17; 44; 59; 76; 88; 106; 833; 1200; 1605; 1644; 2978; 3284; 3539
TspGWI	ACGGANNNNNNNNNN!	1	3893
TspGWI	!NNNNNNNNNTCCGT	2	642; 3551
TspMI	C!CCGGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspRI	CASTGNN!	9	1007; 2120; 2626; 2639; 2910; 3059; 3164; 3511; 3538
TstI	CACNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNGTG	1	154
TstI	GGANNNNNGTGNNNNNNNNNNNN!	1	186
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	1965
Tth111II	CAARCANNNNNNNNNN!	2	2808; 2847
Tth111II	!NNNNNNNNNTGYTTG	2	1752; 2815
UnbI	!GGNCC	9	242; 713; 714; 1741; 3152; 3231; 3248; 3470; 4086
Van9II	CCANNNN!NTGG	2	315; 1432
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	3	2034; 2532; 3778
VpaK11AI	!GGWCC	2	3248; 3470
VpaK11BI	G!GWCC	2	3249; 3471
VspI	AT!TAAT	1	3283
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	2	17; 1200
XbaI	T!CTAGA	1	1805
XceI	RCATG!Y	3	672; 1857; 2222
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1
XhoII	R!GATCY	8	127; 862; 2859; 2870; 2956; 2968; 3736; 3753
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	0	
XmiI	GT!MKAC	1	1990
XmnI	GAANN!NNTTC	2	367; 3710
XspI	C!TAG	6	949; 1697; 1806; 2713; 2966; 3301
ZraI	GAC!GTC	1	4031
ZrmI	AGT!ACT	2	1617; 3591
Zsp2I	ATGCA!T	0	