

## pTurboYFP-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!	0	
AarI	!NNNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	2	1950; 2363
AatI	AGG!CCT	0	
AatII	GACGT!C	1	4070
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	2027
AccII	CG!CG	13	221; 452; 491; 776; 806; 1856; 1858; 1961; 2302; 2883; 3213; 3706; 4038
AccIII	T!CCGGA	2	847; 1233
Acc16I	TGC!GCA	1	3370
Acc36I	ACCTGCNNNN!	0	
Acc36I	!NNNNNNNNNGCAGGT	0	
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	4	142; 331; 1703; 3096
AccB7I	CCANNNN!NTGG	2	534; 1469
AccBSI	CCG!CTC	1	1840
AccBSI	GAG!CGG	4	36; 68; 2188; 3989
AceIII	CAGCTCNNNNNNN!	3	1907; 2207; 3447
AceIII	!NNNNNNNNNNNGAGCTG	4	349; 369; 1252; 1834
AcI	C!CGC	25	219; 450; 774; 819; 953; 1215; 1579; 1835; 1838; 2095; 2121; 2138; 2300; 2328; 2455; 2474; 2595; 2840; 3211; 3302; 3539; 3704; 3781; 3890; 4036
AcI	G!CGG	21	36; 68; 140; 221; 698; 701; 1673; 1928; 1967; 1977; 2019; 2044; 2082; 2181; 2188; 2209; 2705; 2849; 3493; 3660; 3989
AcII	AA!CGTT	3	1324; 3374; 3747
AcIWI	GGATCNNNN!	4	129; 2904; 3001; 3781
AcIWI	!NNNNNGATCC	8	122; 159; 894; 2816; 2902; 3000; 3464; 3785
AcoI	Y!GGCCR	6	201; 504; 525; 665; 1502; 3536
AcsI	R!AATY	2	17; 1237
AcuI	CTGAAGNNNNNNNNNNNNNNN!	4	385; 628; 811; 2803
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	195; 3815
AcvI	CAC!GTG	3	531; 714; 744
AcyI	GR!CGYC	5	143; 332; 839; 3685; 4067
AdeI	CACNNN!GTG	0	
AfaI	GT!AC	8	352; 484; 577; 724; 1116; 1654; 2063; 3628
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	12	174; 225; 299; 456; 534; 697; 1469; 1906; 2277; 2295; 2461; 2740
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	1	2255
AgeI	A!CCGGT	0	
AgsI	TTS!AA	10	59; 444; 516; 555; 621; 2724; 3926; 3949; 3959; 4003
AhdI	GACNNN!NNGTC	1	3148
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
Ajnl	!CCWGG	9	298; 308; 506; 1412; 1468; 1716; 2281; 2402; 2415
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	310
AlfI	GCANNNNNNTGCNNNNNNNNNN!	0	
AlfI	!NNNNNNNNNGCANNNNNTGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGGANNNNNNNGTTC	1	250
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	1	282
AloI	!NNNNNNNGAACNNNNNNNTCC	0	
AluI	AG!CT	27	363; 383; 498; 737; 750; 860; 867; 876; 881; 985; 989; 1009; 1018; 1137; 1266; 1737; 1848; 1897; 1916; 2197; 2423; 2559; 2816; 3136; 3337; 3437; 3500
AluBI	AG!CT	27	363; 383; 498; 737; 750; 860; 867; 876; 881; 985; 989; 1009; 1018; 1137; 1266; 1737; 1848; 1897; 1916; 2197; 2423; 2559; 2816; 3136; 3337; 3437; 3500
AlwI	GGATCNNNN!	4	129; 2904; 3001; 3781
AlwI	!NNNNNGATCC	8	122; 159; 894; 2816; 2902; 3000; 3464; 3785
Alw21I	GWGCW!C	6	307; 713; 2075; 2573; 3734; 3819
Alw26I	GTCTCN!	2	1461; 3985
Alw26I	!NNNNNGAGAC	3	790; 1898; 3209
Alw44I	G!TGCAC	4	709; 2071; 2569; 3815
AlwNI	CAGNNN!CTG	1	2671
Ama87I	C!YCGRG	3	1; 358; 718
Aor13HI	T!CCGGA	2	847; 1233
Aor51HI	AGC!GCT	0	
ApaI	GGCC!C	0	
ApaBI	GCANNNNN!TGC	1	2080
ApaLI	G!TGCAC	4	709; 2071; 2569; 3815
ApeKI	G!CWGC	16	137; 383; 476; 644; 1848; 1894; 1991; 2160; 2178; 2597; 2662; 2665; 2871; 3136; 3199; 3565
ApoI	R!AATTY	2	17; 1237
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	2379
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	0	
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	0	
AquII	!NNNNNNNNNNNNNNNNNNGTNCGGC	1	332
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	1	125
AquIII	!NNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	2123
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	1	1536
ArsI	!NNNNNCRANNNNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	1	1504
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	3320
Asi256I	G!ATC	21	122; 128; 165; 589; 636; 670; 769; 900; 2822; 2897; 2908; 2916; 2994; 3006; 3111; 3452; 3470; 3516; 3774; 3791; 3827
AsiGI	A!CCGGT	0	
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2002
Asp700I	GAANN!NNTTC	2	370; 3747
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	0	
AspEI	GACNNN!NNGTC	1	3148
AspLEI	GCG!C	21	145; 334; 413; 454; 616; 806; 808; 1858; 1961; 1991; 2132; 2165; 2435; 2502; 2602; 2776; 2885; 3278; 3371; 3708; 4040
AspS9I	G!GNCC	8	355; 703; 1779; 3190; 3269; 3286; 3508; 4124
AssI	AGT!ACT	2	1654; 3628
AsuII	TT!CGAA	0	
AsuC2I	CC!SGG	6	957; 1901; 1936; 2635; 3331; 3682
AsuHPI	GGTGANNNNNNNN!	10	324; 471; 984; 1273; 1417; 1485; 1819; 1877; 3634; 3875
AsuHPI	!NNNNNNNTCACC	11	411; 552; 630; 763; 1279; 1473; 1527; 2991; 3218; 3840; 4129
AsuNHI	G!CTAGC	1	985
AvaI	C!YCGRG	3	1; 358; 718
AvaII	G!GWCC	2	3286; 3508
AviII	TGC!GCA	1	3370
AvrII	C!CTAGG	0	
AxyI	CC!TNAGG	0	
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI C	8	293; 299; 713; 719; 1708; 2075; 2573; 3819
BalI	TGG!CCA	4	203; 506; 527; 1504
BamHI	G!GATCC	1	127
BanI	G!GYRCC	4	142; 331; 1703; 3096
BanII	GRGCY!C	0	
BanIII	AT!CGAT	0	
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	390
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	358
BasI	CCANNN!NTGG	2	534; 1469
BauI	C!ACGAG	2	631; 4119
BauI	C!TCGTG	2	2428; 3812
BbeI	GGCGC!C	2	146; 335
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	1	4121
BbrPI	CAC!GTG	3	531; 714; 744
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNNGTCTTC	1	4126
BbuI	GCATG!C	1	390
BbvI	GCAGCNNNNNN!	8	149; 488; 656; 1906; 2003; 2674; 2883; 3577
BbvI	!NNNNNNNNNNNGCTGC	7	370; 1835; 2147; 2165; 2584; 3123; 3186
Bbv12I	GWGCW!C	6	307; 713; 2075; 2573; 3734; 3819
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	424; 700; 931; 3192; 3316; 3603
BccI	!NNNNNGATGG	6	177; 193; 388; 427; 517; 1606
BceAI	ACGGCNNNNNNNNNN!	7	174; 249; 345; 369; 618; 1163; 2757
BceAI	!NNNNNNNNNNNNNGCCGT	2	793; 1588
Bcefl	ACGGCNNNNNNNNNN!	7	174; 249; 345; 369; 618; 1163; 2757
Bcefl	!NNNNNNNNNNNNNGCCGT	2	794; 1589
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	3687
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNTGC	1	3653
BciVI	GTATCCNNNNNN!	0	
BciVI	!NNNNNGGATAC	2	2458; 3985
BclI	T!GATCA	0	
BcnI	CC!SGG	6	957; 1901; 1936; 2635; 3331; 3682
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	1112; 2360
BdaI	!NNNNNNNNNNTGANNNNNTCA	2	1078; 2326
BfaI	C!TAG	6	986; 1734; 1843; 2750; 3003; 3338
BfiI	ACTGGGNNNNN!	1	1786
BfiI	!NNNNCCCAGT	4	258; 330; 1996; 3188
BfmI	C!TRYAG	3	2520; 2711; 3389
BfoI	RGCGC!Y	5	146; 335; 617; 2133; 2503
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	0	
BfuI	!NNNNNGGATAC	2	2458; 3985
BfuAI	ACCTGCNNNN!	0	
BfuAI	!NNNNNNNNNGCAGGT	0	
BfuCI	!GATC	21	121; 127; 164; 588; 635; 669; 768; 899; 2821; 2896; 2907; 2915; 2993; 3005; 3110; 3451; 3469; 3515; 3773; 3790; 3826
BglI	GCCNNNN!NGGC	1	3268
BglII	A!GATCT	0	
BisI	GC!NGC	30	138; 141; 222; 384; 477; 645; 699; 702; 819; 953; 1579; 1838; 1849; 1895; 1992; 2045; 2161; 2182; 2300; 2455; 2598; 2663; 2666; 2872; 3137; 3200; 3539; 3566; 3661; 3890
BlnI	C!CTAGG	0	
BlpI	GC!TNAGC	2	751; 877
BlsI	GCN!GC	30	139; 142; 223; 385; 478; 646; 700; 703; 820; 954; 1580; 1839; 1850; 1896; 1993; 2046; 2162; 2183; 2301; 2456; 2599; 2664; 2667; 2873; 3138; 3201; 3540; 3567; 3662; 3891

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BmcAI	AGT!ACT	2	1654; 3628
Bme18I	G!GWCC	2	3286; 3508
Bme1390I	CC!NGG	15	300; 310; 508; 957; 1414; 1470; 1718; 1901; 1936; 2283; 2404; 2417; 2635; 3331; 3682
BmeRI	GACNNN!NNGTC	1	3148
BmeT110I	C!YCGRG	3	1; 358; 718
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	8	356; 704; 1780; 3191; 3270; 3287; 3509; 4125
BmiI	GGN!NCC	14	129; 144; 333; 357; 705; 846; 1705; 2287; 2326; 3098; 3192; 3233; 3444; 4034
BmrI	ACTGGGNNNNN!	1	1786
BmrI	!NNNNCCCAGT	4	258; 330; 1996; 3188
BmrFI	CC!NGG	15	300; 310; 508; 957; 1414; 1470; 1718; 1901; 1936; 2283; 2404; 2417; 2635; 3331; 3682
BmsI	GCATCNNNNN!	8	224; 1080; 1753; 2056; 2132; 2352; 3404; 3844
BmsI	!NNNNNNNNNGATGC	6	228; 249; 1565; 1921; 2092; 3595
BmtI	GCTAG!C	1	989
BmuI	ACTGGGNNNNN!	1	1786
BmuI	!NNNNCCCAGT	4	258; 330; 1996; 3188
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	1	4126
BpI	GAGNNNNNCTCNNNNNNNNNNNNN!	0	
BpI	!NNNNNNNGAGNNNNNCTC	0	
BpmI	CTGGAGNNNNNNNNNNNNNNN!	3	321; 568; 1359
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	3218
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	1	1010
Bpu14I	TT!CGAA	0	
Bpu1102I	GC!TNAGC	2	751; 877
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	1	4126
BpuEI	CTTGAGNNNNNNNNNNNNNNN!	2	1759; 2644
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	2346; 2885; 3753
BpuMI	CC!SGG	6	957; 1901; 1936; 2635; 3331; 3682
BpvUI	CGAT!CG	1	3518
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	790; 3209
Bsa29I	AT!CGAT	0	
BsaAI	YAC!GTR	6	174; 402; 531; 714; 744; 2009
BsaBI	GATNN!NNATC	1	126
BsaHI	GR!CGYC	5	143; 332; 839; 3685; 4067
BsaJI	C!CNNGG	12	156; 219; 298; 308; 455; 507; 809; 1468; 1469; 1538; 1717; 2415
BsaMI	GAATGCN!	2	1230; 1637
BsaMI	G!CATTC	0	
BsaWI	W!CCGGW	5	847; 1233; 2461; 2608; 3439
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	0	
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	0	
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTTG	1	1951
Bsc4I	CCNNNNN!NNGG	12	174; 225; 299; 456; 534; 697; 1469; 1906; 2277; 2295; 2461; 2740
BscAI	GCATCNNNN!	8	223; 1079; 1752; 2055; 2131; 2351; 3403; 3843
BscAI	!NNNNNNNGATGC	6	231; 252; 1568; 1924; 2095; 3598
BseI	ACTGGN!	6	1044; 1781; 2035; 2663; 2676; 3624
BseI	C!CAGT	10	264; 336; 903; 1484; 2002; 2788; 3194; 3312; 3355; 3794
Bse8I	GATNN!NNATC	1	126
Bse21I	CC!TNAGG	0	
Bse118I	R!CCGGY	4	280; 640; 841; 3228
BseAI	T!CCGGA	2	847; 1233
BseBI	CC!WGG	9	300; 310; 508; 1414; 1470; 1718; 2283; 2404; 2417

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BseCI	AT!CGAT	0	
BseDI	C!CNNGG	12	156; 219; 298; 308; 455; 507; 809; 1468; 1469; 1538; 1717; 2415
Bse3DI	GCAATGNN!	3	198; 1256; 3209
Bse3DI	!CATTGC	1	3383
BseGI	GGATGNN!	5	204; 264; 528; 765; 1936
BseGI	!CATCC	5	215; 1230; 3127; 3308; 3595
BseJI	GATNN!NNATC	1	126
BseLI	CCNNNNN!NNGG	12	174; 225; 299; 456; 534; 697; 1469; 1906; 2277; 2295; 2461; 2740
BseMI	GCAATGNN!	3	198; 1256; 3209
BseMI	!CATTGC	1	3383
BseMII	CTCAGNNNNNNNNNN!	6	928; 1472; 1778; 2544; 2953; 3119
BseMII	!NNNNNNNNCTGAG	5	742; 868; 1811; 2056; 3636
BseNI	ACTGGN!	6	1044; 1781; 2035; 2663; 2676; 3624
BseNI	C!CAGT	10	264; 336; 903; 1484; 2002; 2788; 3194; 3312; 3355; 3794
BsePI	G!CGCGC	1	804
BseRI	GAGGAGNNNNNNNNNN!	1	115
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMLC	8	293; 299; 713; 719; 1708; 2075; 2573; 3819
BseXI	GCAGCNNNNNNNN!	8	149; 488; 656; 1906; 2003; 2674; 2883; 3577
BseXI	!NNNNNNNNNNNGCTGC	7	370; 1835; 2147; 2165; 2584; 3123; 3186
BseX3I	C!GGCCG	0	
BseYI	C!CCAGC	0	
BseYI	G!CTGGG	2	534; 2559
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	424
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	258
Bsh1236I	CG!CG	13	221; 452; 491; 776; 806; 1856; 1858; 1961; 2302; 2883; 3213; 3706; 4038
Bsh1285I	CGRY!CG	3	2595; 3518; 3667
BshFI	GG!CC	21	203; 356; 506; 527; 595; 605; 667; 704; 1150; 1195; 1417; 1504; 1781; 2270; 2281; 2299; 2733; 3191; 3271; 3538; 4125
BshNI	G!GYRCC	4	142; 331; 1703; 3096
BshTI	A!CCGGT	0	
BshVI	AT!CGAT	0	
BsiEI	CGRY!CG	3	2595; 3518; 3667
BsiHKAI	GWGCW!C	6	307; 713; 2075; 2573; 3734; 3819
BsiHKCI	C!YCGRG	3	1; 358; 718
BsiSI	C!CGG	19	281; 641; 842; 848; 956; 1192; 1234; 1362; 1901; 1935; 2462; 2609; 2635; 2825; 3229; 3263; 3330; 3440; 3682
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	12	174; 225; 299; 456; 534; 697; 1469; 1906; 2277; 2295; 2461; 2740
BsIFI	GGGACNNNNNNNNNN!	0	
BsIFI	!NNNNNNNNNNNNNGTCCC	0	
BsmI	GAATGCN!	2	1230; 1637
BsmI	G!CATTG	0	
BsmAI	GTCTCN!	2	1461; 3985
BsmAI	!NNNNNGAGAC	3	790; 1898; 3209
BsmBI	CGTCTCN!	1	1461
BsmBI	!NNNNNGAGACG	1	1898
BsmFI	GGGACNNNNNNNNNN!	0	
BsmFI	!NNNNNNNNNNNNNGTCCC	0	
BsnI	GG!CC	21	203; 356; 506; 527; 595; 605; 667; 704; 1150; 1195; 1417; 1504; 1781; 2270; 2281; 2299; 2733; 3191; 3271; 3538; 4125
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	790; 3209
BsoBI	C!YCGRG	3	1; 358; 718
Bsp13I	T!CCGGA	2	847; 1233
Bsp19I	C!CATGG	1	1538
Bsp24I	GACNNNNNNNTGGNNNNNNNNNNNN!	2	2780; 2958
Bsp24I	!NNNNNNNNCCANNNNNNNGTC	1	4052
Bsp24I	CCANNNNNNGTCTNNNNNNNNNNNNNN!	1	4084
Bsp24I	!NNNNNNNNGACNNNNNNNTGG	2	2748; 2926
Bsp68I	TCC!CGA	0	
Bsp119I	TT!CGAA	0	

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Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	21	121; 127; 164; 588; 635; 669; 768; 899; 2821; 2896; 2907; 2915; 2993; 3005; 3110; 3451; 3469; 3515; 3773; 3790; 3826
Bsp1286I	GDGCH!C	10	293; 299; 307; 713; 719; 1708; 2075; 2573; 3734; 3819
Bsp1407I	T!GTACA	2	482; 575
Bsp1720I	GC!TNAGC	2	751; 877
BspACI	C!CGC	25	219; 450; 774; 819; 953; 1215; 1579; 1835; 1838; 2095; 2121; 2138; 2300; 2328; 2455; 2474; 2595; 2840; 3211; 3302; 3539; 3704; 3781; 3890; 4036
BspACI	G!CGG	21	36; 68; 140; 221; 698; 701; 1673; 1928; 1967; 1977; 2019; 2044; 2082; 2181; 2188; 2209; 2705; 2849; 3493; 3660; 3989
BspCNI	CTCAGNNNNNNNN!	6	927; 1471; 1777; 2543; 2952; 3118
BspCNI	!NNNNNNNCTGAG	5	743; 869; 1812; 2057; 3637
BspDI	AT!CGAT	0	
BspD6I	GA!CTNNNN!	4	894; 1736; 2163; 3151
BspD6I	!NNNNNNGAGTC	1	2619
BspEI	T!CCGGA	2	847; 1233
BspFNI	CG!CG	13	221; 452; 491; 776; 806; 1856; 1858; 1961; 2302; 2883; 3213; 3706; 4038
BspHI	T!CATGA	3	2975; 3983; 4088
BspLI	GGN!NCC	14	129; 144; 333; 357; 705; 846; 1705; 2287; 2326; 3098; 3192; 3233; 3444; 4034
BspMI	ACCTGCNNNN!	0	
BspMI	!NNNNNNNNGCAGGT	0	
BspOI	GCTAG!C	1	989
BspPI	GGATCNNNN!	4	129; 2904; 3001; 3781
BspPI	!NNNNNGATCC	8	122; 159; 894; 2816; 2902; 3000; 3464; 3785
BspQI	GCTCTTCN!	1	2139
BspQI	!NNNNGAAGAGC	1	604
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	0	
BspT107I	G!GYRCC	4	142; 331; 1703; 3096
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	790; 3209
BsrI	ACTGGN!	6	1044; 1781; 2035; 2663; 2676; 3624
BsrI	C!CAGT	10	264; 336; 903; 1484; 2002; 2788; 3194; 3312; 3355; 3794
BsrBI	CCG!CTC	1	1840
BsrBI	GAG!CGG	4	36; 68; 2188; 3989
BsrDI	GCAATGNN!	3	198; 1256; 3209
BsrDI	!CATTGC	1	3383
BsrFI	R!CCGGY	4	280; 640; 841; 3228
BsrGI	T!GTACA	2	482; 575
BsrSI	ACTGGN!	6	1044; 1781; 2035; 2663; 2676; 3624
BsrSI	C!CAGT	10	264; 336; 903; 1484; 2002; 2788; 3194; 3312; 3355; 3794
BssAI	R!CCGGY	4	280; 640; 841; 3228
BssECI	C!CNNGG	12	156; 219; 298; 308; 455; 507; 809; 1468; 1469; 1538; 1717; 2415
BssHII	G!CGCGC	1	804
BssKI	!CCNGG	15	298; 308; 506; 955; 1412; 1468; 1716; 1899; 1934; 2281; 2402; 2415; 2633; 3329; 3680
BssMI	!GATC	21	121; 127; 164; 588; 635; 669; 768; 899; 2821; 2896; 2907; 2915; 2993; 3005; 3110; 3451; 3469; 3515; 3773; 3790; 3826
BssNI	GR!CGYC	5	143; 332; 839; 3685; 4067
BssNAI	GTA!TAC	1	2028
BssSI	C!ACGAG	2	631; 4119
BssSI	C!TCGTG	2	2428; 3812
BssTII	C!CWWGG	1	1538
Bst6I	CTCTTCN!	2	2139; 3943
Bst6I	!NNNNGAAGAG	1	604
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	1	2028
BstACI	GR!CGYC	5	143; 332; 839; 3685; 4067
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	1	2079
BstAUI	T!GTACA	2	482; 575
BstBI	TT!CGAA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bst2BI	C!ACGAG	2	631; 4119
Bst2BI	C!TCGTG	2	2428; 3812
BstBAI	YAC!GTR	6	174; 402; 531; 714; 744; 2009
Bst4CI	ACN!GT	15	801; 1053; 1131; 1164; 1261; 1302; 1405; 1652; 1874; 1909; 2219; 2290; 2760; 3073; 3588
BstC8I	GCN!NGC	11	243; 388; 806; 987; 1215; 1583; 2186; 2272; 2309; 2869; 3260
BstDEI	C!TNAG	13	751; 877; 914; 1010; 1458; 1764; 1820; 2065; 2530; 2939; 3105; 3645; 4071
BstDSI	C!CRYGG	4	156; 219; 809; 1538
BstEII	G!GTNACC	2	312; 459
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	5	204; 264; 528; 765; 1936
BstF5I	!CATCC	5	215; 1230; 3127; 3308; 3595
BstFNI	CG!CG	13	221; 452; 491; 776; 806; 1856; 1858; 1961; 2302; 2883; 3213; 3706; 4038
BstH2I	RGCGC!Y	5	146; 335; 617; 2133; 2503
BstHHI	GCG!C	21	145; 334; 413; 454; 616; 806; 808; 1858; 1961; 1991; 2132; 2165; 2435; 2502; 2602; 2776; 2885; 3278; 3371; 3708; 4040
BstKTI	GAT!C	21	124; 130; 167; 591; 638; 672; 771; 902; 2824; 2899; 2910; 2918; 2996; 3008; 3113; 3454; 3472; 3518; 3776; 3793; 3829
BstMAI	GTCTCN!	2	1461; 3985
BstMAI	!NNNNNGAGAC	3	790; 1898; 3209
BstMBI	!GATC	21	121; 127; 164; 588; 635; 669; 768; 899; 2821; 2896; 2907; 2915; 2993; 3005; 3110; 3451; 3469; 3515; 3773; 3790; 3826
BstMCI	CGRY!CG	3	2595; 3518; 3667
BstMWI	GCNNNNN!NNGC	17	33; 221; 242; 281; 338; 611; 650; 873; 991; 1015; 1578; 2079; 2129; 2194; 2308; 2880; 3268
BstNI	CC!WGG	9	300; 310; 508; 1414; 1470; 1718; 2283; 2404; 2417
BstNSI	RCATG!Y	3	390; 1894; 2259
BstOI	CC!WGG	9	300; 310; 508; 1414; 1470; 1718; 2283; 2404; 2417
BstPI	G!GTNACC	2	312; 459
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	15	298; 308; 506; 955; 1412; 1468; 1716; 1899; 1934; 2281; 2402; 2415; 2633; 3329; 3680
BstSFI	C!TRYAG	3	2520; 2711; 3389
BstSLI	GKGC!C	8	293; 299; 713; 719; 1708; 2075; 2573; 3819
BstSNI	TAC!GTA	0	
BstUI	CG!CG	13	221; 452; 491; 776; 806; 1856; 1858; 1961; 2302; 2883; 3213; 3706; 4038
Bst2UI	CC!WGG	9	300; 310; 508; 1414; 1470; 1718; 2283; 2404; 2417
BstVII	GCAGC!NNNNNNN!	8	149; 488; 656; 1906; 2003; 2674; 2883; 3577
BstVII	!NNNNNNNNNNNGCTGC	7	370; 1835; 2147; 2165; 2584; 3123; 3186
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	1	4126
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	9	127; 164; 899; 2896; 2907; 2993; 3005; 3773; 3790
BstYI	R!GATCY	9	127; 164; 899; 2896; 2907; 2993; 3005; 3773; 3790
BstZI	C!GGCCG	0	
BstZ17I	GTA!TAC	1	2028
BsuI	GTATCCNNNNN!	0	
BsuI	!NNNNNGGATAC	2	2458; 3985
Bsu15I	AT!CGAT	0	
Bsu36I	CC!TNAGG	0	
BsuRI	GG!CC	21	203; 356; 506; 527; 595; 605; 667; 704; 1150; 1195; 1417; 1504; 1781; 2270; 2281; 2299; 2733; 3191; 3271; 3538; 4125
BsuTUI	AT!CGAT	0	
BtgI	C!CRYGG	4	156; 219; 809; 1538
BtgZI	GCGATGNNNNNNNNN!	4	251; 299; 446; 1673
BtgZI	!NNNNNNNNNNNNNCATCGC	1	1316
BthCI	GCNG!C	30	140; 143; 224; 386; 479; 647; 701; 704; 821; 955; 1581; 1840; 1851; 1897; 1994; 2047; 2163; 2184; 2302; 2457; 2600; 2665; 2668; 2874; 3139; 3202; 3541; 3568; 3663; 3892
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	1	3548
BtsI	!CACTGC	2	567; 3568

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BtsCI	GGATGNN!	5	204; 264; 528; 765; 1936
BtsCI	!CATCC	5	215; 1230; 3127; 3308; 3595
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	0	
BveI	!NNNNNNNNNGCAGGT	0	
Cac8I	GCN!NGC	11	243; 388; 806; 987; 1215; 1583; 2186; 2272; 2309; 2869; 3260
CaiI	CAGNNN!CTG	1	2671
CciI	T!CATGA	3	2975; 3983; 4088
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	663; 696; 1075; 1334; 3399
CdiI	C!GATG	6	237; 285; 393; 432; 1659; 3800
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	2044
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	1	2307
CelII	GC!TNAGC	2	751; 877
CfoI	GCG!C	21	145; 334; 413; 454; 616; 806; 808; 1858; 1961; 1991; 2132; 2165; 2435; 2502; 2602; 2776; 2885; 3278; 3371; 3708; 4040
CfrI	Y!GGCCR	6	201; 504; 525; 665; 1502; 3536
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	4	280; 640; 841; 3228
Cfr13I	G!GNCC	8	355; 703; 1779; 3190; 3269; 3286; 3508; 4124
Cfr42I	CCGC!GG	1	222
ChaI	GATC!	21	125; 131; 168; 592; 639; 673; 772; 903; 2825; 2900; 2911; 2919; 2997; 3009; 3114; 3455; 3473; 3519; 3777; 3794; 3830
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	5	592; 2101; 2307; 2862; 4085
CjeI	!NNNNNNNNNACNNNNNTGG	4	910; 2748; 2826; 2926
CjeI	ACNNNNNTGGNNNNNNNNNNNNNNNN!	4	944; 2782; 2860; 2960
CjeI	!NNNNNNNNCCANNNNNNGT	5	558; 2067; 2273; 2828; 4051
CjePI	CCANNNNNNTCNNNNNNNNNNNNNNNN!	2	2813; 4085
CjePI	!NNNNNNNNGANNNNNNTGG	5	486; 2748; 2926; 3046; 3518
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	5	519; 2781; 2959; 3079; 3551
CjePI	!NNNNNNNNCCANNNNNNTC	2	2780; 4052
Clai	AT!CGAT	0	
CpoI	CG!GWCCG	0	
CseI	GACGCNNNNN!	3	847; 2366; 2944
CseI	!NNNNNNNNNGCGTC	2	1950; 3674
CsiI	A!CCWGGT	0	
CspI	CG!GWCCG	0	
Csp6I	G!TAC	8	351; 483; 576; 723; 1115; 1653; 2062; 3627
Csp45I	TT!CGAA	0	
CspAI	A!CCGGT	0	
CspCI	CAANNNNGTGNNNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTGNNNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	2	818; 2134
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	1	3482
CviAII	C!ATG	17	132; 387; 732; 1309; 1539; 1600; 1621; 1891; 1996; 2256; 2976; 3467; 3477; 3555; 3591; 3984; 4089
CviJI	RG!CY	70	203; 230; 356; 363; 383; 398; 498; 506; 512; 527; 595; 605; 667; 704; 737; 750; 788; 860; 867; 876; 881; 985; 989; 1009; 1018; 1137; 1150; 1195; 1266; 1417; 1462; 1504; 1616; 1737; 1763; 1781; 1848; 1897; 1916; 1949; 1994; 2034; 2178; 2197; 2270; 2281; 2299; 2325; 2423; 2559; 2564; 2589; 2668; 2733; 2744; 2787; 2816; 3136; 3179; 3191; 3232; 3258; 3262; 3271; 3337; 3427; 3437; 3500; 3538; 4125
CviKI-1	RG!CY	70	203; 230; 356; 363; 383; 398; 498; 506; 512; 527; 595; 605; 667; 704; 737; 750; 788; 860; 867; 876; 881; 985; 989; 1009; 1018; 1137; 1150; 1195; 1266; 1417; 1462; 1504; 1616; 1737; 1763; 1781; 1848; 1897; 1916; 1949; 1994; 2034; 2178; 2197; 2270; 2281; 2299; 2325; 2423; 2559; 2564; 2589; 2668; 2733; 2744; 2787; 2816; 3136; 3179; 3191; 3232; 3258; 3262; 3271; 3337; 3427; 3437; 3500; 3538; 4125
CviQI	G!TAC	8	351; 483; 576; 723; 1115; 1653; 2062; 3627
DdeI	C!TNAG	13	751; 877; 914; 1010; 1458; 1764; 1820; 2065; 2530; 2939; 3105; 3645; 4071
DinI	GGC!GCC	2	144; 333



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DpnI	GA!TC	21	123; 129; 166; 590; 637; 671; 770; 901; 2823; 2898; 2909; 2917; 2995; 3007; 3112; 3453; 3471; 3517; 3775; 3792; 3828
DpnII	!GATC	21	121; 127; 164; 588; 635; 669; 768; 899; 2821; 2896; 2907; 2915; 2993; 3005; 3110; 3451; 3469; 3515; 3773; 3790; 3826
DraI	TTT!AAA	5	1157; 1496; 3014; 3033; 3725
DraII	RG!GNCCY	1	4124
DraIII	CACNNN!GTG	0	
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	1	374
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	1	2699
DrdI	GACNNN!NNGTC	2	1950; 2363
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	1	854
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	1	3148
DseDI	GACNNN!NNGTC	2	1950; 2363
EaeI	Y!GGCCR	6	201; 504; 525; 665; 1502; 3536
EagI	C!GGCCG	0	
Eam1104I	CTCTTCN!	2	2139; 3943
Eam1104I	!NNNNGAAGAG	1	604
Eam1105I	GACNNN!NNGTC	1	3148
EarI	CTCTTCN!	2	2139; 3943
EarI	!NNNNGAAGAG	1	604
EciI	GGCGGANNNNNNNNNNNN!	0	
EciI	!NNNNNNNNNTCCGCC	4	1824; 2317; 2463; 3291
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	0	
Eco24I	GRGCY!C	0	
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	2	790; 3209
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3286; 3508
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	0	
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	385; 628; 811; 2803
Eco57I	!NNNNNNNNNNNNNNNCTTCAG	2	195; 3815
Eco72I	CAC!GTG	3	531; 714; 744
Eco81I	CC!TNAGG	0	
Eco88I	C!YCGRG	3	1; 358; 718
Eco91I	G!GTNACC	2	312; 459
Eco105I	TAC!GTA	0	
Eco130I	C!CWGGG	1	1538
Eco147I	AGG!CCT	0	
EcoHI	!CCSGG	6	955; 1899; 1934; 2633; 3329; 3680
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	7	321; 385; 568; 628; 811; 1359; 2803
Eco57MI	!NNNNNNNNNNNNNNNCTYCAG	3	195; 3218; 3815
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	2	312; 459
Eco0109I	RG!GNCCY	1	4124
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	9	298; 308; 506; 1412; 1468; 1716; 2281; 2402; 2415
EcoRV	GAT!ATC	0	
EcoT14I	C!CWGGG	1	1538
EcoT22I	ATGCA!T	0	
EcoT38I	GRGCY!C	0	
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	2	144; 333
EheI	GGC!GCC	2	144; 333
ErhI	C!CWGGG	1	1538
EsaBC3I	TC!GA	7	3; 426; 468; 837; 1770; 2356; 3800
Esp3I	CGTCTCN!	1	1461
Esp3I	!NNNNGAGACG	1	1898
FaeI	CATG!	17	135; 390; 735; 1312; 1542; 1603; 1624; 1894; 1999; 2259; 2979; 3470; 3480; 3558; 3594; 3987; 4092

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FaiI	YA!TR	50	12; 49; 115; 133; 388; 733; 784; 1046; 1060; 1121; 1246; 1275; 1310; 1378; 1380; 1447; 1510; 1540; 1553; 1601; 1622; 1892; 1997; 2028; 2042; 2078; 2080; 2257; 2321; 2394; 2699; 2977; 3049; 3051; 3053; 3133; 3424; 3468; 3478; 3556; 3562; 3575; 3592; 3658; 3713; 3934; 3985; 3997; 4090; 4103
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	1	633
FalI	!NNNNNNNNNAAGNNNNNCTT	1	601
FaqI	GGGACNNNNNNNNNN!	0	
FaqI	!NNNNNNNNNNNNNGTCCC	0	
FatI	!CATG	17	131; 386; 731; 1308; 1538; 1599; 1620; 1890; 1995; 2255; 2975; 3466; 3476; 3554; 3590; 3983; 4088
FauI	CCCGCNNNN!	2	457; 1222
FauI	!NNNNNNNGCGGG	2	1666; 1960
FauNDI	CA!TATG	1	2078
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	2027
FmuI	GGNC!C	8	358; 706; 1782; 3193; 3272; 3289; 3511; 4127
Fnu4HI	GC!NGC	30	138; 141; 222; 384; 477; 645; 699; 702; 819; 953; 1579; 1838; 1849; 1895; 1992; 2045; 2161; 2182; 2300; 2455; 2598; 2663; 2666; 2872; 3137; 3200; 3539; 3566; 3661; 3890
FokI	GGATGNNNNNNNNNN!	5	211; 271; 535; 772; 1943
FokI	!NNNNNNNNNNNNNCATCC	5	202; 1217; 3114; 3295; 3582
FriOI	GRGCY!C	0	
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3370
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	6	986; 1734; 1843; 2750; 3003; 3338
FspEI	CCNNNNNNNNNNNN!	126	13; 144; 159; 181; 217; 232; 255; 276; 291; 305; 321; 339; 360; 404; 429; 462; 477; 520; 541; 576; 609; 630; 654; 681; 702; 718; 732; 754; 780; 802; 822; 840; 855; 903; 926; 966; 994; 1062; 1077; 1131; 1164; 1205; 1227; 1247; 1303; 1321; 1363; 1426; 1476; 1497; 1518; 1539; 1592; 1617; 1633; 1720; 1795; 1832; 1848; 1865; 1895; 1913; 1948; 1963; 2008; 2089; 2108; 2134; 2151; 2238; 2284; 2302; 2332; 2346; 2395; 2416; 2439; 2453; 2468; 2482; 2497; 2568; 2591; 2608; 2622; 2643; 2669; 2747; 2801; 2838; 2853; 2924; 3015; 3091; 3113; 3144; 3160; 3197; 3224; 3242; 3268; 3285; 3302; 3318; 3343; 3368; 3396; 3453; 3486; 3516; 3552; 3608; 3648; 3680; 3694; 3717; 3794; 3821; 3864; 3903; 3955; 4049; 4063; 4092; 4113; 4139
FspEI	!NNNNNNNNNNNNNNNGG	123	21; 53; 85; 104; 125; 143; 163; 181; 206; 232; 266; 285; 314; 338; 380; 412; 442; 488; 509; 532; 567; 587; 626; 649; 680; 742; 778; 796; 827; 868; 912; 931; 955; 976; 997; 1025; 1053; 1075; 1123; 1177; 1219; 1244; 1323; 1347; 1378; 1399; 1455; 1486; 1525; 1544; 1567; 1598; 1650; 1676; 1703; 1726; 1745; 1763; 1790; 1810; 1848; 1886; 1913; 1940; 1959; 2004; 2029; 2067; 2094; 2112; 2152; 2173; 2191; 2219; 2252; 2281; 2307; 2355; 2389; 2447; 2473; 2508; 2527; 2545; 2594; 2620; 2644; 2664; 2687; 2712; 2739; 2783; 2810; 2828; 2879; 2911; 2948; 2976; 3048; 3079; 3156; 3214; 3248; 3269; 3315; 3377; 3404; 3425; 3478; 3520; 3541; 3605; 3645; 3667; 3725; 3756; 3845; 3864; 3883; 3955; 3974; 4013; 4095
Fsp4HI	GC!NGC	30	138; 141; 222; 384; 477; 645; 699; 702; 819; 953; 1579; 1838; 1849; 1895; 1992; 2045; 2161; 2182; 2300; 2455; 2598; 2663; 2666; 2872; 3137; 3200; 3539; 3566; 3661; 3890
GdiII	C!GGCCR	0	
GdiII	Y!GGCCG	2	665; 3536
GlaI	GC!GC	21	144; 333; 412; 453; 615; 805; 807; 1857; 1960; 1990; 2131; 2164; 2434; 2501; 2601; 2775; 2884; 3277; 3370; 3707; 4039
GluI	GC!NGC	30	138; 141; 222; 384; 477; 645; 699; 702; 819; 953; 1579; 1838; 1849; 1895; 1992; 2045; 2161; 2182; 2300; 2455; 2598; 2663; 2666; 2872; 3137; 3200; 3539; 3566; 3661; 3890
GsaI	CCCAG!C	0	
GsaI	GCTGG!G	2	538; 2563
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	321; 568; 1359
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3218
HaeI	WGG!CCW	9	203; 506; 527; 595; 1417; 1504; 2270; 2281; 2733
HaeII	RGCGC!Y	5	146; 335; 617; 2133; 2503
HaeIII	GG!CC	21	203; 356; 506; 527; 595; 605; 667; 704; 1150; 1195; 1417; 1504; 1781; 2270; 2281; 2299; 2733; 3191; 3271; 3538; 4125

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNNN!	1	3167
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	1	3133
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNNN!	1	3166
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	1	3135
HapII	C!CGG	19	281; 641; 842; 848; 956; 1192; 1234; 1362; 1901; 1935; 2462; 2609; 2635; 2825; 3229; 3263; 3330; 3440; 3682
HgaI	GACGCNNNNN!	3	847; 2366; 2944
HgaI	!NNNNNNNNNNNGCGTC	2	1950; 3674
HhaI	GCG!C	21	145; 334; 413; 454; 616; 806; 808; 1858; 1961; 1991; 2132; 2165; 2435; 2502; 2602; 2776; 2885; 3278; 3371; 3708; 4040
Hin1I	GR!CGYC	5	143; 332; 839; 3685; 4067
Hin1II	CATG!	17	135; 390; 735; 1312; 1542; 1603; 1624; 1894; 1999; 2259; 2979; 3470; 3480; 3558; 3594; 3987; 4092
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	3	1244; 3166; 3240
Hin4I	!NNNNNNNNNGABNNNNNNRTC	1	3134
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNNN!	1	3166
Hin4I	!NNNNNNNNNGAYNNNNNVTC	3	1212; 3134; 3208
Hin6I	G!CGC	21	143; 332; 411; 452; 614; 804; 806; 1856; 1959; 1989; 2130; 2163; 2433; 2500; 2600; 2774; 2883; 3276; 3369; 3706; 4038
HinP1I	G!CGC	21	143; 332; 411; 452; 614; 804; 806; 1856; 1959; 1989; 2130; 2163; 2433; 2500; 2600; 2774; 2883; 3276; 3369; 3706; 4038
HincII	GTY!RAC	0	
HindII	GTY!RAC	0	
HindIII	A!AGCTT	1	865
HinfI	G!ANTC	10	55; 543; 886; 977; 1587; 1728; 2155; 2230; 2626; 3143
HpaI	GTT!AAC	0	
HpaII	C!CGG	19	281; 641; 842; 848; 956; 1192; 1234; 1362; 1901; 1935; 2462; 2609; 2635; 2825; 3229; 3263; 3330; 3440; 3682
HphI	GGTGANNNNNNNN!	10	324; 471; 984; 1273; 1417; 1485; 1819; 1877; 3634; 3875
HphI	!NNNNNNNTCACC	11	411; 552; 630; 763; 1279; 1473; 1527; 2991; 3218; 3840; 4129
Hpy8I	GTN!NAC	9	483; 711; 1287; 1810; 2028; 2073; 2571; 3059; 3817
Hpy99I	CGWCG!	5	841; 1357; 2360; 3154; 3417
Hpy166II	GTN!NAC	9	483; 711; 1287; 1810; 2028; 2073; 2571; 3059; 3817
Hpy188I	TCN!GA	12	917; 939; 1886; 2052; 2369; 2447; 2800; 2934; 3069; 3515; 3526; 3646
Hpy188III	TC!NNGA	23	3; 125; 444; 468; 516; 547; 848; 927; 1004; 1234; 1338; 1819; 1843; 2489; 2623; 2721; 2819; 2902; 2976; 3235; 3984; 4089; 4119
HpyAV	CCTTCNNNNNN!	7	219; 432; 474; 627; 2495; 2805; 3513
HpyAV	!NNNNNGAAGG	6	360; 513; 786; 2747; 3260; 3872
HpyCH4III	ACN!GT	15	801; 1053; 1131; 1164; 1261; 1302; 1405; 1652; 1874; 1909; 2219; 2290; 2760; 3073; 3588
HpyCH4IV	A!CGT	12	173; 401; 530; 713; 743; 1324; 1499; 2008; 2958; 3374; 3747; 4067
HpyCH4V	TG!CA	13	275; 386; 405; 711; 1894; 2073; 2571; 2867; 3202; 3292; 3485; 3573; 3817
HpyF3I	C!TNAG	13	751; 877; 914; 1010; 1458; 1764; 1820; 2065; 2530; 2939; 3105; 3645; 4071
HpyF10VI	GCNNNNN!NNGC	17	33; 221; 242; 281; 338; 611; 650; 873; 991; 1015; 1578; 2079; 2129; 2194; 2308; 2880; 3268
Hsp92I	GR!CGYC	5	143; 332; 839; 3685; 4067
Hsp92II	CATG!	17	135; 390; 735; 1312; 1542; 1603; 1624; 1894; 1999; 2259; 2979; 3470; 3480; 3558; 3594; 3987; 4092
HspAI	G!CGC	21	143; 332; 411; 452; 614; 804; 806; 1856; 1959; 1989; 2130; 2163; 2433; 2500; 2600; 2774; 2883; 3276; 3369; 3706; 4038
KasI	G!GCGCC	2	142; 331
KfI	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	2	847; 1233
KspI	CCGC!GG	1	222
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	0	
Kzo9I	!GATC	21	121; 127; 164; 588; 635; 669; 768; 899; 2821; 2896; 2907; 2915; 2993; 3005; 3110; 3451; 3469; 3515; 3773; 3790; 3826
LguI	GCTCTCN!	1	2139
LguI	!NNNNGAAGAGC	1	604
LpnI	RGC!GCV	5	144; 333; 615; 2131; 2501

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LpnPI	CCDGNNNNNNNNN!	51	160; 255; 277; 294; 312; 334; 349; 520; 586; 619; 654; 691; 802; 855; 903; 969; 1138; 1205; 1231; 1247; 1375; 1426; 1482; 1497; 1730; 1832; 1914; 1948; 2015; 2284; 2348; 2416; 2453; 2475; 2622; 2648; 2801; 2838; 3153; 3207; 3242; 3268; 3302; 3325; 3343; 3368; 3453; 3695; 3807; 3864; 4076
LpnPI	!NNNNNNNNNNNNCHGG	52	266; 285; 391; 493; 520; 567; 626; 827; 912; 941; 989; 1025; 1123; 1177; 1219; 1252; 1323; 1347; 1399; 1455; 1567; 1654; 1703; 1762; 1886; 1920; 1940; 2016; 2112; 2219; 2268; 2293; 2372; 2402; 2447; 2545; 2594; 2620; 2644; 2664; 2810; 2828; 3173; 3214; 3248; 3315; 3377; 3425; 3605; 3667; 3845; 3955
Lsp1109I	GCAGCNNNNNNNN!	8	149; 488; 656; 1906; 2003; 2674; 2883; 3577
Lsp1109I	!NNNNNNNNNNNGCTGC	7	370; 1835; 2147; 2165; 2584; 3123; 3186
LweI	GCATCNNNNN!	8	224; 1080; 1753; 2056; 2132; 2352; 3404; 3844
LweI	!NNNNNNNNNGATGC	6	228; 249; 1565; 1921; 2092; 3595
MabI	A!CCWGGT	0	
MaeI	C!TAG	6	986; 1734; 1843; 2750; 3003; 3338
MaeII	A!CGT	12	173; 401; 530; 713; 743; 1324; 1499; 2008; 2958; 3374; 3747; 4067
MaeIII	!GTNAC	15	312; 459; 762; 1294; 1399; 1909; 2004; 2611; 2674; 2790; 3073; 3404; 3462; 3615; 3803
MaiI	GA!TC	21	123; 129; 166; 590; 637; 671; 770; 901; 2823; 2898; 2909; 2917; 2995; 3007; 3112; 3453; 3471; 3517; 3775; 3792; 3828
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	1	1840
MbiI	GAG!CGG	4	36; 68; 2188; 3989
MboI	!GATC	21	121; 127; 164; 588; 635; 669; 768; 899; 2821; 2896; 2907; 2915; 2993; 3005; 3110; 3451; 3469; 3515; 3773; 3790; 3826
MboII	GAAGANNNNNNNN!	2	621; 2917
MboII	!NNNNNNNTCTTC	7	1512; 2126; 2988; 3743; 3821; 3930; 4126
McaTI	GCGC!GC	1	807
MfeI	C!AATTG	1	59
MflI	R!GATCY	9	127; 164; 899; 2896; 2907; 2993; 3005; 3773; 3790
MhII	GDGCH!C	10	293; 299; 307; 713; 719; 1708; 2075; 2573; 3734; 3819
MisI	TGG!CCA	4	203; 506; 527; 1504
MluI	A!CGCGT	0	
MluNI	TGG!CCA	4	203; 506; 527; 1504
MlyI	GAGTCNNNNN!	1	2635
MlyI	!NNNNNGACTC	4	880; 1722; 2149; 3137
Mly113I	GG!CGCC	2	143; 332
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	2470; 2654
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	0	
MnII	CCTCNNNNNNN!	8	10; 923; 1862; 1892; 2154; 2437; 3315; 3521
MnII	!NNNNNGAGG	12	93; 112; 180; 420; 450; 1083; 1734; 2363; 2687; 3087; 3168; 4115
Mph1103I	ATGCA!T	0	
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	2	847; 1233
MroNI	G!CCGGC	0	
MroXI	GAANN!NNTTC	2	370; 3747
MscI	TGG!CCA	4	203; 506; 527; 1504
MseI	T!TAA	18	95; 109; 869; 1156; 1495; 1637; 1689; 1710; 2036; 2961; 3013; 3018; 3032; 3085; 3320; 3359; 3724; 4096
MslI	CAYNN!NNRTG	5	310; 679; 3400; 3559; 3918
MspI	C!CGG	19	281; 641; 842; 848; 956; 1192; 1234; 1362; 1901; 1935; 2462; 2609; 2635; 2825; 3229; 3263; 3330; 3440; 3682
Msp20I	TGG!CCA	4	203; 506; 527; 1504
MspA1I	CMG!CKG	8	140; 221; 1137; 1581; 1967; 2597; 2842; 3783
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	204	13; 49; 81; 94; 137; 159; 174; 217; 232; 254; 275; 293; 306; 321; 334; 347; 360; 376; 390; 403; 418; 438; 456; 480; 502; 519; 541; 559; 578; 594; 608; 633; 653; 675; 689; 703; 718; 731; 744; 763; 779; 801; 817; 832; 854; 869; 889; 902; 915; 928; 950; 968; 993; 1007; 1022; 1052; 1076; 1121; 1137; 1150; 1176; 1192; 1216; 1230; 1246; 1279; 1304; 1321; 1350; 1363; 1387; 1409; 1425; 1438; 1470; 1496; 1512; 1540; 1557; 1570; 1585; 1603; 1633; 1648; 1681; 1721; 1746; 1760; 1776; 1789; 1831; 1855; 1869; 1897; 1912; 1929; 1947; 1962; 1980; 1997; 2013; 2032; 2047; 2063; 2077; 2108; 2134; 2157; 2178; 2197; 2210; 2238; 2256; 2276; 2294; 2313; 2332; 2347; 2361; 2375; 2389; 2415; 2428; 2442; 2458; 2474; 2501; 2519; 2542; 2567; 2584; 2602; 2616; 2635; 2656; 2671; 2684; 2700; 2726; 2746; 2762; 2794; 2811; 2831; 2845; 2880; 2894; 2912; 2939; 2961; 2988; 3014; 3054; 3074; 3090; 3112; 3144; 3160; 3184; 3200; 3224; 3237; 3267; 3284; 3301; 3324; 3342; 3367; 3382; 3404; 3419; 3452; 3467; 3487; 3526; 3552; 3565; 3586; 3603; 3632; 3647; 3679; 3693; 3706; 3722; 3745; 3767; 3780; 3806; 3820; 3833; 3863; 3881; 3895; 3926; 3943; 3982; 3996; 4036; 4049; 4062; 4075; 4101; 4126
MspJI	!NNNNNNNNNNNNYNG	175	10; 49; 100; 118; 143; 160; 181; 198; 218; 238; 258; 278; 295; 314; 334; 364; 386; 410; 430; 452; 476; 493; 515; 532; 559; 577; 612; 634; 664; 681; 698; 718; 738; 761; 787; 808; 828; 859; 876; 901; 918; 942; 960; 977; 997; 1026; 1073; 1111; 1132; 1162; 1196; 1219; 1249; 1278; 1295; 1323; 1347; 1369; 1388; 1426; 1445; 1470; 1495; 1514; 1540; 1568; 1586; 1607; 1643; 1660; 1687; 1704; 1724; 1751; 1771; 1791; 1811; 1829; 1848; 1870; 1887; 1907; 1932; 1950; 1970; 1988; 2017; 2036; 2065; 2090; 2112; 2131; 2148; 2166; 2202; 2219; 2242; 2268; 2287; 2308; 2326; 2349; 2368; 2389; 2414; 2431; 2448; 2473; 2502; 2521; 2542; 2567; 2585; 2609; 2630; 2658; 2679; 2707; 2726; 2750; 2774; 2796; 2829; 2846; 2866; 2888; 2911; 2943; 2962; 2989; 3038; 3075; 3092; 3126; 3151; 3173; 3198; 3215; 3241; 3259; 3287; 3316; 3337; 3354; 3378; 3397; 3420; 3441; 3463; 3483; 3510; 3541; 3577; 3599; 3622; 3643; 3663; 3680; 3726; 3756; 3774; 3798; 3818; 3837; 3861; 3891; 3955; 3972; 3997; 4014; 4035; 4058; 4075; 4096; 4116
MspR9I	CC!NGG	15	300; 310; 508; 957; 1414; 1470; 1718; 1901; 1936; 2283; 2404; 2417; 2635; 3331; 3682
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	59
MvaI	CC!WGG	9	300; 310; 508; 1414; 1470; 1718; 2283; 2404; 2417
MvaI269I	GAATGCN!	2	1230; 1637
MvaI269I	G!CATTC	0	
MvnI	CG!CG	13	221; 452; 491; 776; 806; 1856; 1858; 1961; 2302; 2883; 3213; 3706; 4038
MvrI	CGAT!CG	1	3518
MwoI	GCNNNNN!NNGC	17	33; 221; 242; 281; 338; 611; 650; 873; 991; 1015; 1578; 2079; 2129; 2194; 2308; 2880; 3268
NaeI	GCC!GGC	0	
NarI	GG!CGCC	2	143; 332
NciI	CC!SGG	6	957; 1901; 1936; 2635; 3331; 3682
NcoI	C!CATGG	1	1538
NdeI	CA!TATG	1	2078
NdeII	!GATC	21	121; 127; 164; 588; 635; 669; 768; 899; 2821; 2896; 2907; 2915; 2993; 3005; 3110; 3451; 3469; 3515; 3773; 3790; 3826
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	338
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	2	3394; 3619
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	2	3430; 3655
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	302
NgoMIV	G!CCGGC	0	
NheI	G!CTAGC	1	985
NlaIII	CATG!	17	135; 390; 735; 1312; 1542; 1603; 1624; 1894; 1999; 2259; 2979; 3470; 3480; 3558; 3594; 3987; 4092
NlaIV	GGN!NCC	14	129; 144; 333; 357; 705; 846; 1705; 2287; 2326; 3098; 3192; 3233; 3444; 4034
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	2	441; 2368
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	1592; 1848
Nli3877I	CYCGR!G	3	5; 362; 722
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	480; 3297

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmeAIII	!NNNNNNNNNNNNNNNNNNNNCTCGGC	0	
NmeDI	RCCGGYNNNNNNNN!	4	292; 652; 853; 3240
NmeDI	!NNNNNNNNNNNNRCCGGY	4	267; 627; 828; 3215
NmuCI	!GTSAC	7	312; 459; 762; 1909; 2004; 3404; 3615
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3370
NsiI	ATGCA!T	0	
NspI	RCATG!Y	3	390; 1894; 2259
NspV	TT!CGAA	0	
OliI	CACNN!NNGTG	1	310
PabI	GTA!C	8	353; 485; 578; 725; 1117; 1655; 2064; 3629
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	1	390
PaeR7I	C!TCGAG	1	1
PagI	T!CATGA	3	2975; 3983; 4088
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	1	1469
PauI	G!CGCGC	1	804
PceI	AGG!CCT	0	
PciI	A!CATGT	1	2255
PciSI	GCTCTCN!	1	2139
PciSI	!NNNNGAAGAGC	1	604
PcsI	WCGNNNN!NNNCGW	3	2181; 2579; 3456
PctI	GAATGCN!	2	1230; 1637
PctI	G!CATT	0	
PdiI	GCC!GGC	0	
PdmI	GAANN!NNTTC	2	370; 3747
PfeI	G!AWTC	5	55; 543; 977; 1587; 2230
PfiI23II	C!GTACG	0	
PfifI	GACN!NNGTC	1	2002
PfIMI	CCANNNN!NTGG	2	534; 1469
PfoI	T!CCNGGA	1	1899
PhoI	GG!CC	21	203; 356; 506; 527; 595; 605; 667; 704; 1150; 1195; 1417; 1504; 1781; 2270; 2281; 2299; 2733; 3191; 3271; 3538; 4125
PinAI	A!CCGGT	0	
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	2	2074; 2150
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	1199; 1553
PleI	GAGTCNNNN!	1	2634
PleI	!NNNNNGACTC	4	880; 1722; 2149; 3137
Ple19I	CGAT!CG	1	3518
PmaCI	CAC!GTG	3	531; 714; 744
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	3	531; 714; 744
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2970
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	3780
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3812
PpiI	!NNNNNNNGAACNNNNNCTC	1	2938
PpsI	GAGTCNNNN!	1	2634
PpsI	!NNNNNGACTC	4	880; 1722; 2149; 3137
Ppu10I	A!TGCAT	0	
Ppu21I	YAC!GTR	6	174; 402; 531; 714; 744; 2009
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	2255
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	3320
PsiI	TTA!TAA	1	49
Psp03I	GGWC!C	2	3289; 3511
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	9	298; 308; 506; 1412; 1468; 1716; 2281; 2402; 2415
Psp1406I	AA!CGTT	3	1324; 3374; 3747
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	3	531; 714; 744
PspEI	G!GTNACC	2	312; 459
PspGI	!CCWGG	9	298; 308; 506; 1412; 1468; 1716; 2281; 2402; 2415

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	14	129; 144; 333; 357; 705; 846; 1705; 2287; 2326; 3098; 3192; 3233; 3444; 4034
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	1	359
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	0	
PspPI	G!GNCC	8	355; 703; 1779; 3190; 3269; 3286; 3508; 4124
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	2	933; 3212
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	568; 1704
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	4127
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	1	2671
PsuI	R!GATCY	9	127; 164; 899; 2896; 2907; 2993; 3005; 3773; 3790
PsyI	GACN!NNGTC	1	2002
PteI	G!CGCGC	1	804
PvuI	CGAT!CG	1	3518
PvuII	CAG!CTG	1	1137
RcaI	T!CATGA	3	2975; 3983; 4088
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	0	
RceI	!NNNNNNNNNNNNNNNNNGTTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	0	
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	8	352; 484; 577; 724; 1116; 1654; 2063; 3628
RsaNI	G!TAC	8	351; 483; 576; 723; 1115; 1653; 2062; 3627
RseI	CAYNN!NNRTG	5	310; 679; 3400; 3559; 3918
RsrII	CG!GWCCG	0	
Rsr2I	CG!GWCCG	0	
SacI	GAGCT!C	0	
SacII	CCGC!GG	1	222
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	1	2139
SapI	!NNNNGAAGAGC	1	604
SaqAI	T!TAA	18	95; 109; 869; 1156; 1495; 1637; 1689; 1710; 2036; 2961; 3013; 3018; 3032; 3085; 3320; 3359; 3724; 4096
SatI	GC!NGC	30	138; 141; 222; 384; 477; 645; 699; 702; 819; 953; 1579; 1838; 1849; 1895; 1992; 2045; 2161; 2182; 2300; 2455; 2598; 2663; 2666; 2872; 3137; 3200; 3539; 3566; 3661; 3890
Sau96I	G!GNCC	8	355; 703; 1779; 3190; 3269; 3286; 3508; 4124
Sau3AI	!GATC	21	121; 127; 164; 588; 635; 669; 768; 899; 2821; 2896; 2907; 2915; 2993; 3005; 3110; 3451; 3469; 3515; 3773; 3790; 3826
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	2	1654; 3628
SchI	GAGTCNNNNN!	1	2635
SchI	!NNNNNGACTC	4	880; 1722; 2149; 3137
SciI	CTC!GAG	1	3
ScrFI	CC!NGG	15	300; 310; 508; 957; 1414; 1470; 1718; 1901; 1936; 2283; 2404; 2417; 2635; 3331; 3682
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	4	432; 1030; 3305; 3551
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	3	868; 1797; 2418
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	1	3395

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SdeOSI	TCAYNNGGTCNNNNNNNNNNNN!	1	3429
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	10	293; 299; 307; 713; 719; 1708; 2075; 2573; 3734; 3819
SelI	!CGCG	13	219; 450; 489; 774; 804; 1854; 1856; 1959; 2300; 2881; 3211; 3704; 4036
SetI	ASST!	63	2; 176; 211; 257; 328; 365; 385; 404; 424; 461; 466; 500; 533; 716; 739; 746; 752; 829; 862; 869; 878; 883; 915; 987; 991; 1011; 1020; 1120; 1139; 1268; 1327; 1415; 1502; 1571; 1595; 1739; 1850; 1884; 1899; 1918; 2011; 2199; 2374; 2425; 2471; 2527; 2546; 2561; 2698; 2797; 2818; 2961; 3004; 3102; 3138; 3339; 3377; 3439; 3502; 3750; 4065; 4070; 4102
SexAI	A!CCWGGT	0	
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	224; 1080; 1753; 2056; 2132; 2352; 3404; 3844
SfaNI	!NNNNNNNNNGATGC	6	228; 249; 1565; 1921; 2092; 3595
Sfci	C!TRYAG	3	2520; 2711; 3389
SfiI	GGCCNNNN!NGGCC	0	
SfoI	GGC!GCC	2	144; 333
Sfr274I	C!TCGAG	1	1
Sfr303I	CCGC!GG	1	222
SfuI	TT!CGAA	0	
SgeI	CNNGNNNNNNNNN!	158	13; 137; 159; 174; 232; 254; 276; 293; 306; 321; 348; 370; 390; 403; 418; 438; 456; 480; 502; 519; 541; 559; 585; 604; 618; 643; 660; 675; 690; 718; 732; 754; 768; 787; 801; 817; 834; 854; 869; 894; 915; 939; 957; 994; 1007; 1052; 1137; 1150; 1194; 1222; 1246; 1279; 1304; 1321; 1350; 1363; 1399; 1425; 1481; 1496; 1512; 1540; 1570; 1594; 1612; 1633; 1681; 1729; 1746; 1789; 1831; 1855; 1869; 1903; 1929; 1947; 1962; 1980; 1997; 2014; 2043; 2139; 2157; 2178; 2197; 2246; 2268; 2283; 2313; 2347; 2375; 2394; 2415; 2428; 2442; 2463; 2481; 2501; 2528; 2568; 2584; 2602; 2621; 2635; 2656; 2671; 2684; 2705; 2733; 2762; 2800; 2831; 2855; 2880; 2894; 2914; 2939; 2969; 2988; 3015; 3074; 3152; 3165; 3184; 3200; 3224; 3241; 3267; 3285; 3301; 3324; 3342; 3367; 3404; 3419; 3452; 3467; 3489; 3567; 3603; 3632; 3648; 3680; 3693; 3706; 3767; 3782; 3806; 3824; 3863; 3887; 3926; 3982; 3996; 4049; 4075; 4101; 4131
SgeI	!NNNNNNNNNNNNNCNNG	136	111; 133; 160; 206; 228; 250; 267; 285; 307; 334; 364; 388; 412; 430; 454; 476; 493; 515; 533; 559; 578; 617; 634; 664; 692; 718; 742; 761; 787; 808; 828; 868; 889; 913; 931; 968; 990; 1026; 1111; 1168; 1196; 1220; 1253; 1278; 1295; 1324; 1348; 1373; 1399; 1455; 1486; 1514; 1544; 1568; 1586; 1607; 1655; 1703; 1720; 1763; 1805; 1829; 1877; 1903; 1921; 1941; 1964; 1982; 2017; 2113; 2131; 2152; 2171; 2220; 2242; 2268; 2287; 2321; 2349; 2368; 2389; 2414; 2437; 2455; 2475; 2502; 2542; 2567; 2595; 2620; 2645; 2665; 2707; 2736; 2774; 2805; 2829; 2854; 2888; 2913; 2943; 2962; 2989; 3048; 3126; 3158; 3180; 3198; 3215; 3241; 3259; 3298; 3316; 3341; 3378; 3397; 3426; 3446; 3463; 3541; 3577; 3606; 3654; 3680; 3741; 3780; 3798; 3837; 3861; 3900; 3956; 4023; 4049; 4075; 4105; 4127
Sgfi	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	1	280
SgrBI	CCGC!GG	1	222
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	1	2930
SimI	!GACCC	4	446; 1998; 2447; 3216
SinI	G!GWCC	2	3286; 3508
SlaI	C!TCGAG	1	1
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	310; 679; 3400; 3559; 3918
SmlI	C!TYRAG	6	1; 1738; 2361; 2623; 2900; 3768
SmoI	C!TYRAG	6	1; 1738; 2361; 2623; 2900; 3768
SmuI	CCCGCNNNN!	2	457; 1222
SmuI	!NNNNNNGCGGG	2	1666; 1960
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	1	390



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	15	17; 44; 59; 76; 88; 106; 438; 555; 870; 1237; 1642; 1681; 3015; 3321; 3576
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	0	
SsiI	C!CGC	25	219; 450; 774; 819; 953; 1215; 1579; 1835; 1838; 2095; 2121; 2138; 2300; 2328; 2455; 2474; 2595; 2840; 3211; 3302; 3539; 3704; 3781; 3890; 4036
SsiI	G!CGG	21	36; 68; 140; 221; 698; 701; 1673; 1928; 1967; 1977; 2019; 2044; 2082; 2181; 2188; 2209; 2705; 2849; 3493; 3660; 3989
SspI	AAT!ATT	2	1549; 3952
SspDI	G!GCGCC	2	142; 331
SspD5I	GGTGANNNNNNNN!	10	324; 471; 984; 1273; 1417; 1485; 1819; 1877; 3634; 3875
SspD5I	!NNNNNNNNNTCACC	11	410; 551; 629; 762; 1278; 1472; 1526; 2990; 3217; 3839; 4128
SstI	GAGCT!C	0	
SstII	CCG!GG	1	222
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	17	299; 365; 398; 456; 713; 725; 1221; 1535; 1907; 1957; 2389; 2588; 2597; 2641; 3155; 3688; 4056
Sth132I	!NNNNNNNNNCGGG	12	116; 948; 1665; 1927; 1959; 1976; 2480; 2918; 3163; 3322; 3685; 3746
Sth302II	CC!GG	19	282; 642; 843; 849; 957; 1193; 1235; 1363; 1902; 1936; 2463; 2610; 2636; 2826; 3230; 3264; 3331; 3441; 3683
StrI	C!TCGAG	1	1
StsI	GGATGNNNNNNNNNN!	5	212; 272; 536; 773; 1944
StsI	!NNNNNNNNNNNNNNNNCATCC	5	201; 1216; 3113; 3294; 3581
StuI	AGG!CCT	0	
StyI	C!CWWGG	1	1538
StyD4I	!CCNGG	15	298; 308; 506; 955; 1412; 1468; 1716; 1899; 1934; 2281; 2402; 2415; 2633; 3329; 3680
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	801; 1053; 1131; 1164; 1261; 1302; 1405; 1652; 1874; 1909; 2219; 2290; 2760; 3073; 3588
TaiI	ACGT!	12	176; 404; 533; 716; 746; 1327; 1502; 2011; 2961; 3377; 3750; 4070
TaqI	T!CGA	7	2; 425; 467; 836; 1769; 2355; 3799
TaqII	GACCGANNNNNNNNNN!	2	781; 3681
TaqII	!NNNNNNNNNTCGGTC	2	2157; 3496
TaqII	CACCCANNNNNNNNNN!	2	691; 3834
TaqII	!NNNNNNNNNTGGGTG	2	1461; 3851
TasI	!AATT	15	17; 44; 59; 76; 88; 106; 438; 555; 870; 1237; 1642; 1681; 3015; 3321; 3576
TatI	W!GTACW	5	482; 575; 1652; 2061; 3626
TauI	GCSG!C	15	143; 224; 701; 704; 821; 955; 1581; 1840; 2047; 2184; 2302; 2457; 3541; 3663; 3892
TfiI	G!AWTC	5	55; 543; 977; 1587; 2230
ThiI	C!TCGAG	1	1
Tru1I	T!TAA	18	95; 109; 869; 1156; 1495; 1637; 1689; 1710; 2036; 2961; 3013; 3018; 3032; 3085; 3320; 3359; 3724; 4096
Tru9I	T!TAA	18	95; 109; 869; 1156; 1495; 1637; 1689; 1710; 2036; 2961; 3013; 3018; 3032; 3085; 3320; 3359; 3724; 4096
TscAI	CASTGNN!	11	343; 574; 1044; 2157; 2663; 2676; 2947; 3096; 3201; 3548; 3575
TseI	G!CWGC	16	137; 383; 476; 644; 1848; 1894; 1991; 2160; 2178; 2597; 2662; 2665; 2871; 3136; 3199; 3565
TsoI	TARCCANNNNNNNNNN!	1	1138
TsoI	!NNNNNNNNNTGGYTA	2	386; 3547
Tsp45I	!GTSAC	7	312; 459; 762; 1909; 2004; 3404; 3615
Tsp509I	!AATT	15	17; 44; 59; 76; 88; 106; 438; 555; 870; 1237; 1642; 1681; 3015; 3321; 3576
TspDTI	ATGAANNNNNNNNNN!	5	697; 1237; 1267; 1655; 3039
TspDTI	!NNNNNNNNNTTCAT	6	258; 648; 1319; 1585; 3116; 3419
TspEI	!AATT	15	17; 44; 59; 76; 88; 106; 438; 555; 870; 1237; 1642; 1681; 3015; 3321; 3576
TspGWI	ACGGANNNNNNNNNN!	1	3930

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspGI	!NNNNNNNNNTCCGT	1	3588
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	11	343; 574; 1044; 2157; 2663; 2676; 2947; 3096; 3201; 3548; 3575
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2002
Tth111II	CAARCANNNNNNNN!	2	2845; 2884
Tth111III	!NNNNNNNTGYTTG	2	1789; 2852
UnbI	!GGNCC	8	354; 702; 1778; 3189; 3268; 3285; 3507; 4123
Van9II	CCANNNN!NTGG	2	534; 1469
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	4	709; 2071; 2569; 3815
VpaK11AI	!GGWCC	2	3285; 3507
VpaK11BI	G!GWCC	2	3286; 3508
VspI	AT!TAAT	1	3320
XagI	CCTNN!NNNAGG	0	
XapI	R!AATY	2	17; 1237
XbaI	T!CTAGA	1	1842
XceI	RCATG!Y	3	390; 1894; 2259
XcmI	CCANNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1
XhoII	R!GATCY	9	127; 164; 899; 2896; 2907; 2993; 3005; 3773; 3790
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	0	
XmiI	GT!MKAC	1	2027
XmnI	GAANN!NNTTC	2	370; 3747
XspI	C!TAG	6	986; 1734; 1843; 2750; 3003; 3338
ZraI	GAC!GTC	1	4068
ZrmI	AGT!ACT	2	1654; 3628
Zsp2I	ATGCA!T	0	