

## 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	580
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	2	1912; 2325
AatI	AGG!CCT	0	
AatII	GACGT!C	1	4032
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1989
AccII	CG!CG	11	475; 631; 736; 1818; 1820; 1923; 2264; 2845; 3175; 3668; 4000
AccIII	T!CCGGA	1	1195
Acc16I	TGC!GCA	1	3332
Acc36I	ACCTGCNNNN!	2	307; 580
Acc36I	!NNNNNNNNGCAGGT	0	
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	7	183; 228; 276; 339; 501; 1665; 3058
AccB7I	CCANNNN!NTGG	2	314; 1431
AccBSI	CCG!CTC	1	1802
AccBSI	GAG!CGG	5	36; 68; 145; 2150; 3951
AceIII	CAGCTCNNNNNNN!	4	659; 1869; 2169; 3409
AceIII	!NNNNNNNNNNNGAGCTG	4	195; 750; 1214; 1796
AciI	C!CGC	31	154; 173; 245; 407; 458; 473; 548; 614; 731; 734; 915; 1177; 1541; 1797; 1800; 2057; 2083; 2100; 2262; 2290; 2417; 2436; 2557; 2802; 3173; 3264; 3501; 3666; 3743; 3852; 3998
AciI	G!CGG	24	36; 68; 145; 217; 220; 352; 391; 430; 637; 1635; 1890; 1929; 1939; 1981; 2006; 2044; 2143; 2150; 2171; 2667; 2811; 3455; 3622; 3951
AcI	AA!CGTT	3	1286; 3336; 3709
AcIWI	GGATCNNNN!	5	128; 754; 2866; 2963; 3743
AcIWI	!NNNNNGATCC	7	121; 856; 2778; 2864; 2962; 3426; 3747
AcoI	Y!GGCCR	3	470; 1464; 3498
AcsI	R!AATY	2	17; 1199
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	1	2765
AcuI	!NNNNNNNNNNNNNCTTCAG	4	272; 434; 605; 3777
AcvI	CAC!GTG	2	311; 443
AcyI	GR!CGYC	3	277; 3647; 4029
AdeI	CACNNN!GTG	0	
AfaI	GT!AC	6	420; 780; 1078; 1616; 2025; 3590
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	10	239; 314; 464; 737; 1431; 1868; 2239; 2257; 2423; 2702
AflII	C!TTAAG	0	
AflIII	A!CRYGT	1	2217
AgeI	A!CCGGT	0	
AgsI	TTS!AA	9	59; 491; 677; 794; 2686; 3888; 3911; 3921; 3965
AhdI	GACNNN!NNGTC	1	3110
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	6	1374; 1430; 1678; 2243; 2364; 2377
AjuI	GAANNNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNTTC	0	
AjuI	CCAANNNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNNTTGG	0	
AleI	CACNN!NNGTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	0	
AlfI	!NNNNNNNNNNNGCANNNNNNNTGC	0	
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGGANNNNNNNGTTC	0	
AloI	GGANNNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	0	
AluI	AG!CT	27	209; 448; 454; 607; 649; 764; 829; 838; 843; 947; 951; 971; 980; 1099; 1228; 1699; 1810; 1859; 1878; 2159; 2385; 2521; 2778; 3098; 3299; 3399; 3462
AluBI	AG!CT	27	209; 448; 454; 607; 649; 764; 829; 838; 843; 947; 951; 971; 980; 1099; 1228; 1699; 1810; 1859; 1878; 2159; 2385; 2521; 2778; 3098; 3299; 3399; 3462
AlwI	GGATCNNNN!	5	128; 754; 2866; 2963; 3743
AlwI	!NNNNNGATCC	7	121; 856; 2778; 2864; 2962; 3426; 3747
Alw21I	GWGCW!C	6	270; 571; 2037; 2535; 3696; 3781
Alw26I	GTCTCN!	2	1423; 3947
Alw26I	!NNNNNGAGAC	2	1860; 3171
Alw44I	G!TGCAC	3	2033; 2531; 3777
AlwNI	CAGNNN!CTG	1	2633
Ama87I	C!YCGRG	3	1; 234; 513
Aor13HI	T!CCGGA	1	1195
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	1	717
ApaBI	GCANNNNN!TGC	1	2042
ApaLI	G!TGCAC	3	2033; 2531; 3777
ApeKI	G!CWGC	15	437; 550; 604; 1810; 1856; 1953; 2122; 2140; 2559; 2624; 2627; 2833; 3098; 3161; 3527
ApoI	R!AATTY	2	17; 1199
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2341
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	0	
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	0	
AquII	!NNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	124; 766
AquIII	!NNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTTCCYC	2	491; 2085
ArsI	GACNNNNNNNTTYGNNNNNNNNNNNN!	1	1498
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	1	1466
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	3282
Asi256I	G!ATC	22	121; 127; 164; 479; 527; 542; 594; 747; 862; 2784; 2859; 2870; 2878; 2956; 2968; 3073; 3414; 3432; 3478; 3736; 3753; 3789
AsiGI	A!CCGGT	0	
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	1964
Asp700I	GAANN!NNTTC	2	366; 3709
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	0	
AspEI	GACNNN!NNGTC	1	3110
AspLEI	GCG!C	17	279; 631; 684; 1820; 1923; 1953; 2094; 2127; 2397; 2464; 2564; 2738; 2847; 3240; 3333; 3670; 4002
AspS9I	G!GNCC	9	242; 713; 714; 1741; 3152; 3231; 3248; 3470; 4086
AssI	AGT!ACT	2	1616; 3590
AsuII	TT!CGAA	0	
AsuC2I	CC!SGG	7	801; 919; 1863; 1898; 2597; 3293; 3644
AsuHPI	GGTGANNNNNNNN!	10	506; 828; 946; 1235; 1379; 1447; 1781; 1839; 3596; 3837
AsuHPI	!NNNNNNNTCACC	10	170; 524; 602; 1241; 1435; 1489; 2953; 3180; 3802; 4091
AsuNHI	G!CTAGC	1	947
AvaI	C!YCGRG	3	1; 234; 513
AvaII	G!GWCC	2	3248; 3470
AviII	TGC!GCA	1	3332
AvrII	C!CTAGG	0	

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AxyI	CC!TNAGG	0	
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	7	231; 504; 717; 1670; 2037; 2535; 3781
BalI	TGG!CCA	1	1466
BamHI	G!GATCC	1	126
BanI	G!GYRCC	7	183; 228; 276; 339; 501; 1665; 3058
BanII	GRGCY!C	1	717
BanIII	AT!CGAT	0	
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	2	314; 1431
BauI	C!ACGAG	1	4081
BauI	C!TCGTG	2	2390; 3774
BbeI	GGCG!C	1	280
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	1	4083
BbrPI	CAC!GTG	2	311; 443
BbsI	GAAGACNN!	0	
BbsI	!NNNNNGTCTTC	1	4088
BbuI	GCATG!C	0	
BbvI	GCAGCNNNNNNNN!	7	562; 616; 1868; 1965; 2636; 2845; 3539
BbvI	!NNNNNNNNNNNGCTGC	7	424; 1797; 2109; 2127; 2546; 3085; 3148
Bbv12I	GWGCW!C	6	270; 571; 2037; 2535; 3696; 3781
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	387; 693; 893; 3154; 3278; 3565
BccI	!NNNNNGATGG	4	308; 491; 594; 1568
BceAI	ACGGCNNNNNNNNNNNN!	7	209; 338; 404; 443; 650; 1125; 2719
BceAI	!NNNNNNNNNNNNNGCCGT	1	1550
BcefI	ACGGCNNNNNNNNNNNN!	7	209; 338; 404; 443; 650; 1125; 2719
BcefI	!NNNNNNNNNNNNNGCCGT	1	1551
BcgI	CGANNNNNTGCNNNNNNNNNNNN!	1	3649
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNTGC	1	3615
BciVI	GTATCCNNNNNN!	0	
BciVI	!NNNNNGGATAC	2	2420; 3947
BcII	T!GATCA	0	
BcnI	CC!SGG	7	801; 919; 1863; 1898; 2597; 3293; 3644
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNNNN!	2	1074; 2322
BdaI	!NNNNNNNNNTGANNNNNTCA	2	1040; 2288
BfaI	C!TAG	6	948; 1696; 1805; 2712; 2965; 3300
BfiI	ACTGGGNNNNN!	1	1748
BfiI	!NNNNCCAGT	2	1958; 3150
BfmI	C!TRYAG	5	644; 702; 2482; 2673; 3351
BfoI	RGCG!Y	4	280; 685; 2095; 2465
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	0	
BfuI	!NNNNNGGATAC	2	2420; 3947
BfuAI	ACCTGCNNNN!	2	307; 580
BfuAI	!NNNNNNNNGCAGGT	0	
BfuCI	!GATC	22	120; 126; 163; 478; 526; 541; 593; 746; 861; 2783; 2858; 2869; 2877; 2955; 2967; 3072; 3413; 3431; 3477; 3735; 3752; 3788
BglI	GCCNNNN!NGGC	1	3230
BglII	A!GATCT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BisI	GC!NGC	34	146; 173; 218; 245; 353; 392; 431; 438; 473; 551; 605; 638; 734; 915; 1541; 1800; 1811; 1857; 1954; 2007; 2123; 2144; 2262; 2417; 2560; 2625; 2628; 2834; 3099; 3162; 3501; 3528; 3623; 3852
BlnI	C!CTAGG	0	
BlpI	GC!TNAGC	2	303; 839
BlsI	GCN!GC	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
BmcAI	AGT!ACT	2	1616; 3590
Bme18I	G!GWCC	2	3248; 3470
Bme1390I	CC!NGG	13	801; 919; 1376; 1432; 1680; 1863; 1898; 2245; 2366; 2379; 2597; 3293; 3644
BmeRI	GACNNN!NNGTC	1	3110
BmeT110I	C!YCGRG	3	1; 234; 513
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	9	243; 714; 715; 1742; 3153; 3232; 3249; 3471; 4087
BmiI	GGN!NCC	16	128; 185; 230; 278; 341; 503; 714; 716; 1667; 2249; 2288; 3060; 3154; 3195; 3406; 3996
BmrI	ACTGGGNNNNN!	1	1748
BmrI	!NNNNCCAGT	2	1958; 3150
BmrFI	CC!NGG	13	801; 919; 1376; 1432; 1680; 1863; 1898; 2245; 2366; 2379; 2597; 3293; 3644
BmsI	GCATCNNNNN!	11	184; 418; 706; 778; 1042; 1715; 2018; 2094; 2314; 3366; 3806
BmsI	!NNNNNNNNNGATGC	5	794; 1527; 1883; 2054; 3557
BmtI	GCTAG!C	1	951
BmuI	ACTGGGNNNNN!	1	1748
BmuI	!NNNNCCAGT	2	1958; 3150
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNGTCTTC	1	4088
BpII	GAGNNNNNCTCNNNNNNNNNNNNNN!	0	
BpII	!NNNNNNNGAGNNNNNCTC	0	
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	1321
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	3180
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	1	972
Bpu14I	TT!CGAA	0	
Bpu1102I	GC!TNAGC	2	303; 839
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNGTCTTC	1	4088
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	1721; 2606
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	2308; 2847; 3715
BpuMI	CC!SGG	7	801; 919; 1863; 1898; 2597; 3293; 3644
BpvUI	CGAT!CG	1	3480
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3171
Bsa29I	AT!CGAT	0	
BsaAI	YAC!GTR	3	311; 443; 1971
BsaBI	GATNN!NNATC	2	125; 592
BsaHI	GR!CGYC	3	277; 3647; 4029
BsaJI	C!CNNGG	11	157; 514; 562; 580; 652; 799; 1430; 1431; 1500; 1679; 2377
BsaMI	GAATGCN!	2	1192; 1599
BsaMI	G!CATTC	0	
BsaWI	W!CCGGW	4	1195; 2423; 2570; 3401
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	663
BsaXI	!NNNNNNNGGAGNNNNNGT	1	153
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	183
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	633
BsbI	CAACACNNNNNNNNNNNNNNNN!	2	427; 781
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	1	1913

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bsc4I	CCNNNNN!NNGG	10	239; 314; 464; 737; 1431; 1868; 2239; 2257; 2423; 2702
BscAI	GCATCNNNN!	11	183; 417; 705; 777; 1041; 1714; 2017; 2093; 2313; 3365; 3805
BscAI	!NNNNNNGATGC	5	797; 1530; 1886; 2057; 3560
Bse1I	ACTGGN!	6	1006; 1743; 1997; 2625; 2638; 3586
Bse1I	C!CAGT	8	865; 1446; 1964; 2750; 3156; 3274; 3317; 3756
Bse8I	GATNN!NNATC	2	125; 592
Bse21I	CC!TNAGG	0	
Bse118I	R!CCGGY	5	180; 468; 504; 813; 3190
BseAI	T!CCGGA	1	1195
BseBI	CC!WGG	6	1376; 1432; 1680; 2245; 2366; 2379
BseCI	AT!CGAT	0	
BseDI	C!CNNGG	11	157; 514; 562; 580; 652; 799; 1430; 1431; 1500; 1679; 2377
Bse3DI	GCAATGNN!	2	1218; 3171
Bse3DI	!CATTGC	1	3345
BseGI	GGATGNN!	3	605; 809; 1898
BseGI	!CATCC	7	544; 685; 697; 1192; 3089; 3270; 3557
BseJI	GATNN!NNATC	2	125; 592
BseLI	CCNNNNN!NNGG	10	239; 314; 464; 737; 1431; 1868; 2239; 2257; 2423; 2702
BseMI	GCAATGNN!	2	1218; 3171
BseMI	!CATTGC	1	3345
BseMII	CTCAGNNNNNNNNN!	6	890; 1434; 1740; 2506; 2915; 3081
BseMII	!NNNNNNNCTGAG	5	294; 830; 1773; 2018; 3598
BseNI	ACTGGN!	6	1006; 1743; 1997; 2625; 2638; 3586
BseNI	C!CAGT	8	865; 1446; 1964; 2750; 3156; 3274; 3317; 3756
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNN!	2	114; 756
BseRI	!NNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	7	231; 504; 717; 1670; 2037; 2535; 3781
BseXI	GCAGCNNNNNNN!	7	562; 616; 1868; 1965; 2636; 2845; 3539
BseXI	!NNNNNNNNNNNGCTGC	7	424; 1797; 2109; 2127; 2546; 3085; 3148
BseX3I	C!GGCCG	1	470
BseYI	C!CCAGC	2	348; 693
BseYI	G!CTGGG	2	764; 2521
BsgI	GTGCAGNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	3	357; 423; 558
Bsh1236I	CG!CG	11	475; 631; 736; 1818; 1820; 1923; 2264; 2845; 3175; 3668; 4000
Bsh1285I	CGRY!CG	4	473; 2557; 3480; 3629
BshFI	GG!CC	18	148; 244; 468; 472; 715; 1112; 1157; 1379; 1466; 1743; 2232; 2243; 2261; 2695; 3153; 3233; 3500; 4087
BshNI	G!GYRCC	7	183; 228; 276; 339; 501; 1665; 3058
BshTI	A!CCGGT	0	
BshVI	AT!CGAT	0	
BsiEI	CGRY!CG	4	473; 2557; 3480; 3629
BsiHKAI	GWGCW!C	6	270; 571; 2037; 2535; 3696; 3781
BsiHKCI	C!YCGRG	3	1; 234; 513
BsiSI	C!CGG	20	181; 469; 505; 801; 814; 918; 1154; 1196; 1324; 1863; 1897; 2424; 2571; 2597; 2787; 3191; 3225; 3292; 3402; 3644
BsiWI	C!GTACG	0	
BsI	CCNNNNN!NNGG	10	239; 314; 464; 737; 1431; 1868; 2239; 2257; 2423; 2702
BsIFI	GGGACNNNNNNNNN!	0	
BsIFI	!NNNNNNNNNNNNNGTCCC	0	
BsmI	GAATGCN!	2	1192; 1599
BsmI	G!CATTC	0	
BsmAI	GTCTCN!	2	1423; 3947
BsmAI	!NNNNNGAGAC	2	1860; 3171
BsmBI	CGTCTCN!	1	1423
BsmBI	!NNNNNGAGACG	1	1860
BsmFI	GGGACNNNNNNNNN!	0	
BsmFI	!NNNNNNNNNNNNNGTCCC	0	
BsnI	GG!CC	18	148; 244; 468; 472; 715; 1112; 1157; 1379; 1466; 1743; 2232; 2243; 2261; 2695; 3153; 3233; 3500; 4087

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Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3171
BsoBI	C!YCGRG	3	1; 234; 513
Bsp13I	T!CCGGA	1	1195
Bsp19I	C!CATGG	3	157; 580; 1500
Bsp24I	GACNNNNNTGGNNNNNNNNNNNN!	2	2742; 2920
Bsp24I	!NNNNNNCCANNNNNGTC	1	4014
Bsp24I	CCANNNNNGTCNNNNNNNNNNNN!	1	4046
Bsp24I	!NNNNNNNGACNNNNNTGG	2	2710; 2888
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	0	
Bsp120I	G!GGCCC	1	713
Bsp143I	!GATC	22	120; 126; 163; 478; 526; 541; 593; 746; 861; 2783; 2858; 2869; 2877; 2955; 2967; 3072; 3413; 3431; 3477; 3735; 3752; 3788
Bsp1286I	GDGCH!C	10	231; 270; 504; 571; 717; 1670; 2037; 2535; 3696; 3781
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	2	303; 839
BspACI	C!CGC	31	154; 173; 245; 407; 458; 473; 548; 614; 731; 734; 915; 1177; 1541; 1797; 1800; 2057; 2083; 2100; 2262; 2290; 2417; 2436; 2557; 2802; 3173; 3264; 3501; 3666; 3743; 3852; 3998
BspACI	G!CGG	24	36; 68; 145; 217; 220; 352; 391; 430; 637; 1635; 1890; 1929; 1939; 1981; 2006; 2044; 2143; 2150; 2171; 2667; 2811; 3455; 3622; 3951
BspCNI	CTCAGNNNNNNNN!	6	889; 1433; 1739; 2505; 2914; 3080
BspCNI	!NNNNNNCTGAG	5	295; 831; 1774; 2019; 3599
BspDI	AT!CGAT	0	
BspD6I	GACTCNNNN!	4	856; 1698; 2125; 3113
BspD6I	!NNNNNGAGTC	1	2581
BspEI	T!CCGGA	1	1195
BspFNI	CG!CG	11	475; 631; 736; 1818; 1820; 1923; 2264; 2845; 3175; 3668; 4000
BspHI	T!CATGA	3	2937; 3945; 4050
BspLI	GGN!NCC	16	128; 185; 230; 278; 341; 503; 714; 716; 1667; 2249; 2288; 3060; 3154; 3195; 3406; 3996
BspMI	ACCTGCNNNN!	2	307; 580
BspMI	!NNNNNNNGCAGGT	0	
BspOI	GCTAG!C	1	951
BspPI	GGATCNNNN!	5	128; 754; 2866; 2963; 3743
BspPI	!NNNNNGATCC	7	121; 856; 2778; 2864; 2962; 3426; 3747
BspQI	GCTCTCN!	1	2101
BspQI	!NNNNGAAGAGC	1	258
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	0	
BspT107I	G!GYRCC	7	183; 228; 276; 339; 501; 1665; 3058
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3171
BsrI	ACTGGN!	6	1006; 1743; 1997; 2625; 2638; 3586
BsrI	C!CAGT	8	865; 1446; 1964; 2750; 3156; 3274; 3317; 3756
BsrBI	CCG!CTC	1	1802
BsrBI	GAG!CGG	5	36; 68; 145; 2150; 3951
BsrDI	GCAATGNN!	2	1218; 3171
BsrDI	!CATTGC	1	3345
BsrFI	R!CCGGY	5	180; 468; 504; 813; 3190
BsrGI	T!GTACA	0	
BsrSI	ACTGGN!	6	1006; 1743; 1997; 2625; 2638; 3586
BsrSI	C!CAGT	8	865; 1446; 1964; 2750; 3156; 3274; 3317; 3756
BssAI	R!CCGGY	5	180; 468; 504; 813; 3190
BssECI	C!CNNGG	11	157; 514; 562; 580; 652; 799; 1430; 1431; 1500; 1679; 2377
BssHII	G!CGCGC	0	
BssKI	!CCNGG	13	799; 917; 1374; 1430; 1678; 1861; 1896; 2243; 2364; 2377; 2595; 3291; 3642

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssMI	!GATC	22	120; 126; 163; 478; 526; 541; 593; 746; 861; 2783; 2858; 2869; 2877; 2955; 2967; 3072; 3413; 3431; 3477; 3735; 3752; 3788
BssNI	GR!CGYC	3	277; 3647; 4029
BssNAI	GTA!TAC	1	1990
BssSI	C!ACGAG	1	4081
BssSI	C!TCGTG	2	2390; 3774
BssT1I	C!CWWGG	3	157; 580; 1500
Bst6I	CTCTCN!	2	2101; 3905
Bst6I	!NNNNGAAGAG	1	258
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	1	1990
BstACI	GR!CGYC	3	277; 3647; 4029
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	1	2041
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	0	
Bst2BI	C!ACGAG	1	4081
Bst2BI	C!TCGTG	2	2390; 3774
BstBAI	YAC!GTR	3	311; 443; 1971
Bst4CI	ACN!GT	15	563; 1015; 1093; 1126; 1223; 1264; 1367; 1614; 1836; 1871; 2181; 2252; 2722; 3035; 3550
BstC8I	GCN!NGC	15	150; 154; 376; 435; 470; 627; 787; 949; 1177; 1545; 2148; 2234; 2271; 2831; 3222
BstDEI	C!TNAG	13	303; 839; 876; 972; 1420; 1726; 1782; 2027; 2492; 2901; 3067; 3607; 4033
BstDSI	C!CRYGG	5	157; 562; 580; 652; 1500
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	3	605; 809; 1898
BstF5I	!CATCC	7	544; 685; 697; 1192; 3089; 3270; 3557
BstFNI	CG!CG	11	475; 631; 736; 1818; 1820; 1923; 2264; 2845; 3175; 3668; 4000
BstH2I	RGCGC!Y	4	280; 685; 2095; 2465
BstHHI	GCG!C	17	279; 631; 684; 1820; 1923; 1953; 2094; 2127; 2397; 2464; 2564; 2738; 2847; 3240; 3333; 3670; 4002
BstKTI	GAT!C	22	123; 129; 166; 481; 529; 544; 596; 749; 864; 2786; 2861; 2872; 2880; 2958; 2970; 3075; 3416; 3434; 3480; 3738; 3755; 3791
BstMAI	GTCTCN!	2	1423; 3947
BstMAI	!NNNNNGAGAC	2	1860; 3171
BstMBI	!GATC	22	120; 126; 163; 478; 526; 541; 593; 746; 861; 2783; 2858; 2869; 2877; 2955; 2967; 3072; 3413; 3431; 3477; 3735; 3752; 3788
BstMCI	CGRY!CG	4	473; 2557; 3480; 3629
BstMWI	GCNNNNN!NNGC	18	33; 142; 181; 226; 274; 481; 613; 637; 835; 953; 977; 1540; 2041; 2091; 2156; 2270; 2842; 3230
BstNI	CC!WGG	6	1376; 1432; 1680; 2245; 2366; 2379
BstNSI	RCATG!Y	3	671; 1856; 2221
BstOI	CC!WGG	6	1376; 1432; 1680; 2245; 2366; 2379
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	13	799; 917; 1374; 1430; 1678; 1861; 1896; 2243; 2364; 2377; 2595; 3291; 3642
BstSFI	C!TRYAG	5	644; 702; 2482; 2673; 3351
BstSLI	GKGC!C	7	231; 504; 717; 1670; 2037; 2535; 3781
BstSNI	TAC!GTA	0	
BstUI	CG!CG	11	475; 631; 736; 1818; 1820; 1923; 2264; 2845; 3175; 3668; 4000
Bst2UI	CC!WGG	6	1376; 1432; 1680; 2245; 2366; 2379
BstV1I	GCAGCNNNNNNN!	7	562; 616; 1868; 1965; 2636; 2845; 3539
BstV1I	!NNNNNNNNNNNGCTGC	7	424; 1797; 2109; 2127; 2546; 3085; 3148
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	1	4088
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	8	126; 861; 2858; 2869; 2955; 2967; 3735; 3752

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstYI	R!GATCY	8	126; 861; 2858; 2869; 2955; 2967; 3735; 3752
BstZI	C!GGCCG	1	470
BstZ17I	GTA!TAC	1	1990
BsuI	GTATCCNNNNNN!	0	
BsuI	!NNNNNGGATAC	2	2420; 3947
Bsu15I	AT!CGAT	0	
Bsu36I	CC!TNAGG	0	
BsuRI	GG!CC	18	148; 244; 468; 472; 715; 1112; 1157; 1379; 1466; 1743; 2232; 2243; 2261; 2695; 3153; 3233; 3500; 4087
BsuTUI	AT!CGAT	0	
BtgI	C!CRYGG	5	157; 562; 580; 652; 1500
BtgZI	GCGATGNNNNNNNNNN!	1	1635
BtgZI	!NNNNNNNNNNNNNNCATCGC	1	1278
BthCI	GCNG!C	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
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGN!	1	3510
BtsI	!CACTGC	1	3530
BtsCI	GGATGNN!	3	605; 809; 1898
BtsCI	!CATCC	7	544; 685; 697; 1192; 3089; 3270; 3557
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	307; 580
BveI	!NNNNNNNNGCAGGT	0	
Cac8I	GCN!NGC	15	150; 154; 376; 435; 470; 627; 787; 949; 1177; 1545; 2148; 2234; 2271; 2831; 3222
CaiI	CAGNNN!CTG	1	2633
CciI	T!CATGA	3	2937; 3945; 4050
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	413; 773; 1037; 1296; 3361
CdiI	C!GATG	2	1621; 3762
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	2	245; 2006
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	1	2269
CelII	GC!TNAGC	2	303; 839
CfoI	GCG!C	17	279; 631; 684; 1820; 1923; 1953; 2094; 2127; 2397; 2464; 2564; 2738; 2847; 3240; 3333; 3670; 4002
CfrI	Y!GGCCR	3	470; 1464; 3498
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	5	180; 468; 504; 813; 3190
Cfr13I	G!GNCC	9	242; 713; 714; 1741; 3152; 3231; 3248; 3470; 4086
Cfr42I	CCGC!GG	0	
ChaI	GATC!	22	124; 130; 167; 482; 530; 545; 597; 750; 865; 2787; 2862; 2873; 2881; 2959; 2971; 3076; 3417; 3435; 3481; 3739; 3756; 3792
CjeI	CCANNNNNGTNNNNNNNNNNNNNNNN!	4	2063; 2269; 2824; 4047
CjeI	!NNNNNNNNNACNNNNNNNTGG	4	872; 2710; 2788; 2888
CjeI	ACNNNNNNNTGNNNNNNNNNNNNNNNN!	4	906; 2744; 2822; 2922
CjeI	!NNNNNNNNCCANNNNNNNGT	4	2029; 2235; 2790; 4013
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNNNN!	2	2775; 4047
CjePI	!NNNNNNNNGANNNNNNNNTGG	4	2710; 2888; 3008; 3480
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNNNN!	4	2743; 2921; 3041; 3513
CjePI	!NNNNNNNNCCANNNNNNNTC	2	2742; 4014
ClaI	AT!CGAT	0	
CpoI	CG!GWCCG	0	
CseI	GACGCNNNNN!	2	2328; 2906
CseI	!NNNNNNNNNGCGTC	2	1912; 3636
CsiI	A!CCWGGT	0	
CspI	CG!GWCCG	0	
Csp6I	G!TAC	6	419; 779; 1077; 1615; 2024; 3589
Csp45I	TT!CGAA	0	
CspAI	A!CCGGT	0	
CspCI	CAANNNNNGTGGNNNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNNNTTG	0	



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspCI	CCACNNNNNTTGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2096
CstMI	!NNNNNNNNNNNNNNNNNNNCTCCTT	1	3444
CviAII	C!ATG	19	158; 248; 581; 668; 719; 1271; 1501; 1562; 1583; 1853; 1958; 2218; 2938; 3429; 3439; 3517; 3553; 3946; 4051
CviJI	RG!CY	73	148; 209; 244; 292; 307; 319; 325; 355; 394; 448; 454; 468; 472; 508; 607; 625; 640; 649; 664; 715; 764; 829; 838; 843; 947; 951; 971; 980; 1099; 1112; 1157; 1228; 1379; 1424; 1466; 1578; 1699; 1725; 1743; 1810; 1859; 1878; 1911; 1956; 1996; 2140; 2159; 2232; 2243; 2261; 2287; 2385; 2521; 2526; 2551; 2630; 2695; 2706; 2749; 2778; 3098; 3141; 3153; 3194; 3220; 3224; 3233; 3299; 3389; 3399; 3462; 3500; 4087
CviKI-1	RG!CY	73	148; 209; 244; 292; 307; 319; 325; 355; 394; 448; 454; 468; 472; 508; 607; 625; 640; 649; 664; 715; 764; 829; 838; 843; 947; 951; 971; 980; 1099; 1112; 1157; 1228; 1379; 1424; 1466; 1578; 1699; 1725; 1743; 1810; 1859; 1878; 1911; 1956; 1996; 2140; 2159; 2232; 2243; 2261; 2287; 2385; 2521; 2526; 2551; 2630; 2695; 2706; 2749; 2778; 3098; 3141; 3153; 3194; 3220; 3224; 3233; 3299; 3389; 3399; 3462; 3500; 4087
CviQI	G!TAC	6	419; 779; 1077; 1615; 2024; 3589
DdeI	C!TNAG	13	303; 839; 876; 972; 1420; 1726; 1782; 2027; 2492; 2901; 3067; 3607; 4033
DinI	GGC!GCC	1	278
DpnI	GA!TC	22	122; 128; 165; 480; 528; 543; 595; 748; 863; 2785; 2860; 2871; 2879; 2957; 2969; 3074; 3415; 3433; 3479; 3737; 3754; 3790
DpnII	!GATC	22	120; 126; 163; 478; 526; 541; 593; 746; 861; 2783; 2858; 2869; 2877; 2955; 2967; 3072; 3413; 3431; 3477; 3735; 3752; 3788
DraI	TTT!AAA	5	1119; 1458; 2976; 2995; 3687
DraII	RG!GNCCY	2	713; 4086
DraIII	CACNNN!GTG	0	
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	0	
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCTTG	1	2661
DrdI	GACNNNN!NNGTC	2	1912; 2325
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	1	3110
DseDI	GACNNNN!NNGTC	2	1912; 2325
EaeI	Y!GGCCR	3	470; 1464; 3498
EagI	C!GGCCG	1	470
Eam1104I	CTCTCN!	2	2101; 3905
Eam1104I	!NNNNGAAGAG	1	258
Eam1105I	GACNNN!NNGTC	1	3110
EarI	CTCTCN!	2	2101; 3905
EarI	!NNNNGAAGAG	1	258
EciI	GGCGANNNNNNNNNNNN!	1	235
EciI	!NNNNNNNNNTCCGCC	5	720; 1786; 2279; 2425; 3253
Ecl136II	GAG!CTC	0	
EcXI	C!GGCCG	1	470
Eco24I	GRGCI	1	717
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	1	3171
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3248; 3470
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	1	470
Eco57I	CTGAAGNNNNNNNNNNNNNNNNNN!	1	2765
Eco57I	!NNNNNNNNNNNNNNNNNCTTCAG	4	272; 434; 605; 3777
Eco72I	CAC!GTG	2	311; 443
Eco81I	CC!TNAGG	0	
Eco88I	C!YCGRG	3	1; 234; 513
Eco91I	G!GTNACC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	3	157; 580; 1500
Eco147I	AGG!CCT	0	
EcoHI	!CCSGG	7	799; 917; 1861; 1896; 2595; 3291; 3642
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	2	1321; 2765
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	272; 434; 605; 3180; 3777
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	713; 4086
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	6	1374; 1430; 1678; 2243; 2364; 2377
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	3	157; 580; 1500
EcoT22I	ATGCA!T	0	
EcoT38I	GRGCY!C	1	717
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	1	278
EheI	GGC!GCC	1	278
ErhI	C!CWWGG	3	157; 580; 1500
EsaBC3I	TC!GA	7	3; 167; 206; 413; 1732; 2318; 3762
Esp3I	CGTCTCN!	1	1423
Esp3I	!NNNNNGAGACG	1	1860
FaeI	CATG!	19	161; 251; 584; 671; 722; 1274; 1504; 1565; 1586; 1856; 1961; 2221; 2941; 3432; 3442; 3520; 3556; 3949; 4054
FaiI	YA!TR	51	12; 49; 114; 159; 249; 582; 669; 720; 1008; 1022; 1083; 1208; 1237; 1272; 1340; 1342; 1409; 1472; 1502; 1515; 1563; 1584; 1854; 1959; 1990; 2004; 2040; 2042; 2219; 2283; 2356; 2661; 2939; 3011; 3013; 3015; 3095; 3386; 3430; 3440; 3518; 3524; 3537; 3554; 3620; 3675; 3896; 3947; 3959; 4052; 4065
FalI	AAGNNNNNCTNNNNNNNNNNNN!	0	
FalI	!NNNNNNNNNAAGNNNNNCTT	0	
FaqI	GGGACNNNNNNNNNN!	0	
FaqI	!NNNNNNNNNNNNNGTCCC	0	
FatI	!CATG	19	157; 247; 580; 667; 718; 1270; 1500; 1561; 1582; 1852; 1957; 2217; 2937; 3428; 3438; 3516; 3552; 3945; 4050
FauI	CCCGCNNNN!	4	161; 414; 621; 1184
FauI	!NNNNNNNGCGGG	2	1628; 1922
FauNDI	CA!TATG	1	2040
FbaI	T!GATCA	0	
FbII	GT!MKAC	1	1989
FmuI	GGNC!C	9	245; 716; 717; 1744; 3155; 3234; 3251; 3473; 4089
Fnu4HI	GC!NGC	34	146; 173; 218; 245; 353; 392; 431; 438; 473; 551; 605; 638; 734; 915; 1541; 1800; 1811; 1857; 1954; 2007; 2123; 2144; 2262; 2417; 2560; 2625; 2628; 2834; 3099; 3162; 3501; 3528; 3623; 3852
FokI	GGATGNNNNNNNN!	3	612; 816; 1905
FokI	!NNNNNNNNNNNNNCATCC	6	531; 672; 1179; 3076; 3257; 3544
FriOI	GRGCY!C	1	717
FseI	GGCCGG!CC	1	472
FspI	TGC!GCA	1	3332
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	6	948; 1696; 1805; 2712; 2965; 3300
FspEI	CCNNNNNNNNNNNN!	124	13; 143; 162; 186; 200; 245; 266; 284; 299; 321; 345; 360; 378; 392; 413; 471; 486; 518; 548; 572; 591; 626; 665; 698; 714; 729; 744; 773; 795; 812; 827; 865; 888; 928; 956; 1024; 1039; 1093; 1126; 1167; 1189; 1209; 1265; 1283; 1325; 1388; 1438; 1459; 1480; 1501; 1554; 1579; 1595; 1682; 1757; 1794; 1810; 1827; 1857; 1875; 1910; 1925; 1970; 2051; 2070; 2096; 2113; 2200; 2246; 2264; 2294; 2308; 2357; 2378; 2401; 2415; 2430; 2444; 2459; 2530; 2553; 2570; 2584; 2605; 2631; 2709; 2763; 2800; 2815; 2886; 2977; 3053; 3075; 3106; 3122; 3159; 3186; 3204; 3230; 3247; 3264; 3280; 3305; 3330; 3358; 3415; 3448; 3478; 3514; 3570; 3610; 3642; 3656; 3679; 3756; 3783; 3826; 3865; 3917; 4011; 4025; 4054; 4075; 4101

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	!NNNNNNNNNNNNNNNNNGG	119	21; 53; 84; 103; 130; 166; 195; 225; 259; 300; 322; 373; 408; 450; 477; 501; 549; 567; 586; 619; 639; 694; 723; 750; 786; 830; 874; 893; 917; 938; 959; 987; 1015; 1037; 1085; 1139; 1181; 1206; 1285; 1309; 1340; 1361; 1417; 1448; 1487; 1506; 1529; 1560; 1612; 1638; 1665; 1688; 1707; 1725; 1752; 1772; 1810; 1848; 1875; 1902; 1921; 1966; 1991; 2029; 2056; 2074; 2114; 2135; 2153; 2181; 2214; 2243; 2269; 2317; 2351; 2409; 2435; 2470; 2489; 2507; 2556; 2582; 2606; 2626; 2649; 2674; 2701; 2745; 2772; 2790; 2841; 2873; 2910; 2938; 3010; 3041; 3118; 3176; 3210; 3231; 3277; 3339; 3366; 3387; 3440; 3482; 3503; 3567; 3607; 3629; 3687; 3718; 3807; 3826; 3845; 3917; 3936; 3975; 4057
Fsp4HI	GC!NGC	34	146; 173; 218; 245; 353; 392; 431; 438; 473; 551; 605; 638; 734; 915; 1541; 1800; 1811; 1857; 1954; 2007; 2123; 2144; 2262; 2417; 2560; 2625; 2628; 2834; 3099; 3162; 3501; 3528; 3623; 3852
GdiII	C!GGCCR	1	470
GdiII	Y!GGCCG	2	470; 3498
GlaI	GC!GC	17	278; 630; 683; 1819; 1922; 1952; 2093; 2126; 2396; 2463; 2563; 2737; 2846; 3239; 3332; 3669; 4001
GluI	GC!NGC	34	146; 173; 218; 245; 353; 392; 431; 438; 473; 551; 605; 638; 734; 915; 1541; 1800; 1811; 1857; 1954; 2007; 2123; 2144; 2262; 2417; 2560; 2625; 2628; 2834; 3099; 3162; 3501; 3528; 3623; 3852
GsaI	CCCAG!C	2	352; 697
GsaI	GCTGG!G	2	768; 2525
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	1321
GsuI	!NNNNNNNNNNNNNNNCTCCAG	1	3180
HaeI	WGG!CCW	5	1379; 1466; 2232; 2243; 2695
HaeII	RGCGC!Y	4	280; 685; 2095; 2465
HaeIII	GG!CC	18	148; 244; 468; 472; 715; 1112; 1157; 1379; 1466; 1743; 2232; 2243; 2261; 2695; 3153; 3233; 3500; 4087
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	1	3129
HaeIV	!NNNNNNNNNGAYNNNNNRTC	1	3095
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	1	3128
HaeIV	!NNNNNNNGAYNNNNNRTC	1	3097
HapII	C!CGG	20	181; 469; 505; 801; 814; 918; 1154; 1196; 1324; 1863; 1897; 2424; 2571; 2597; 2787; 3191; 3225; 3292; 3402; 3644
HgaI	GACGCNNNNN!	2	2328; 2906
HgaI	!NNNNNNNNNNCGGTC	2	1912; 3636
HhaI	GCG!C	17	279; 631; 684; 1820; 1923; 1953; 2094; 2127; 2397; 2464; 2564; 2738; 2847; 3240; 3333; 3670; 4002
Hin1I	GR!CGYC	3	277; 3647; 4029
Hin1II	CATG!	19	161; 251; 584; 671; 722; 1274; 1504; 1565; 1586; 1856; 1961; 2221; 2941; 3432; 3442; 3520; 3556; 3949; 4054
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	3	1206; 3128; 3202
Hin4I	!NNNNNNNNGABNNNNNRTC	1	3096
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	1	3128
Hin4I	!NNNNNNNNGAYNNNNNVTC	3	1174; 3096; 3170
Hin6I	G!CGC	17	277; 629; 682; 1818; 1921; 1951; 2092; 2125; 2395; 2462; 2562; 2736; 2845; 3238; 3331; 3668; 4000
HinPII	G!CGC	17	277; 629; 682; 1818; 1921; 1951; 2092; 2125; 2395; 2462; 2562; 2736; 2845; 3238; 3331; 3668; 4000
HincII	GTY!RAC	0	
HindII	GTY!RAC	0	
HindIII	A!AGCTT	1	827
HinfI	G!ANTC	9	55; 848; 939; 1549; 1690; 2117; 2192; 2588; 3105
HpaI	GTT!AAC	0	
HpaII	C!CGG	20	181; 469; 505; 801; 814; 918; 1154; 1196; 1324; 1863; 1897; 2424; 2571; 2597; 2787; 3191; 3225; 3292; 3402; 3644
HphI	GGTGANNNNNNNN!	10	506; 828; 946; 1235; 1379; 1447; 1781; 1839; 3596; 3837
HphI	!NNNNNNNNTCACC	10	170; 524; 602; 1241; 1435; 1489; 2953; 3180; 3802; 4091
Hpy8I	GTN!NAC	8	659; 1249; 1772; 1990; 2035; 2533; 3021; 3779
Hpy99I	CGWCG!	6	141; 636; 1319; 2322; 3116; 3379

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hpy166II	GTN!NAC	8	659; 1249; 1772; 1990; 2035; 2533; 3021; 3779
Hpy188I	TCN!GA	13	131; 879; 901; 1848; 2014; 2331; 2409; 2762; 2896; 3031; 3477; 3488; 3608
Hpy188III	TC!NNGA	22	3; 124; 413; 597; 677; 794; 889; 966; 1196; 1300; 1781; 1805; 2451; 2585; 2683; 2781; 2864; 2938; 3197; 3946; 4051; 4081
HpyAV	CCTTCNNNNNN!	8	296; 377; 629; 737; 800; 2457; 2767; 3475
HpyAV	!NNNNNGAAGG	3	2709; 3222; 3834
HpyCH4III	ACN!GT	15	563; 1015; 1093; 1126; 1223; 1264; 1367; 1614; 1836; 1871; 2181; 2252; 2722; 3035; 3550
HpyCH4IV	A!CGT	9	310; 442; 1286; 1461; 1970; 2920; 3336; 3709; 4029
HpyCH4V	TG!CA	15	374; 440; 575; 671; 704; 807; 1856; 2035; 2533; 2829; 3164; 3254; 3447; 3535; 3779
HpyF3I	C!TNAG	13	303; 839; 876; 972; 1420; 1726; 1782; 2027; 2492; 2901; 3067; 3607; 4033
HpyF10VI	GCNNNNN!NNGC	18	33; 142; 181; 226; 274; 481; 613; 637; 835; 953; 977; 1540; 2041; 2091; 2156; 2270; 2842; 3230
Hsp92I	GR!CGYC	3	277; 3647; 4029
Hsp92II	CATG!	19	161; 251; 584; 671; 722; 1274; 1504; 1565; 1586; 1856; 1961; 2221; 2941; 3432; 3442; 3520; 3556; 3949; 4054
HspAI	G!CGC	17	277; 629; 682; 1818; 1921; 1951; 2092; 2125; 2395; 2462; 2562; 2736; 2845; 3238; 3331; 3668; 4000
KasI	G!GCGCC	1	276
KfI	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1195
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	0	
Kzo9I	!GATC	22	120; 126; 163; 478; 526; 541; 593; 746; 861; 2783; 2858; 2869; 2877; 2955; 2967; 3072; 3413; 3431; 3477; 3735; 3752; 3788
LguI	GCTCTTCN!	1	2101
LguI	!NNNNGAAGAGC	1	258
LpnI	RGCI!GCY	4	278; 683; 2093; 2463
LpnPI	CCDGNNNNNNNNNN!	50	162; 194; 294; 312; 362; 384; 482; 518; 585; 639; 707; 795; 814; 865; 931; 1100; 1167; 1193; 1209; 1337; 1388; 1444; 1459; 1692; 1794; 1876; 1910; 1977; 2246; 2310; 2378; 2415; 2437; 2584; 2610; 2763; 2800; 3115; 3169; 3204; 3230; 3264; 3287; 3305; 3330; 3415; 3657; 3769; 3826; 4038
LpnPI	!NNNNNNNNNNNNNNCHGG	52	166; 195; 225; 454; 490; 582; 750; 786; 874; 903; 951; 987; 1085; 1139; 1181; 1214; 1285; 1309; 1361; 1417; 1529; 1616; 1665; 1724; 1848; 1882; 1902; 1978; 2074; 2181; 2230; 2255; 2334; 2364; 2409; 2507; 2556; 2582; 2606; 2626; 2772; 2790; 3135; 3176; 3210; 3277; 3339; 3387; 3567; 3629; 3807; 3917
Lsp1109I	GCAGCNNNNNNNN!	7	562; 616; 1868; 1965; 2636; 2845; 3539
Lsp1109I	!NNNNNNNNNNNGCTGC	7	424; 1797; 2109; 2127; 2546; 3085; 3148
LweI	GCATCNNNNN!	11	184; 418; 706; 778; 1042; 1715; 2018; 2094; 2314; 3366; 3806
LweI	!NNNNNNNNNGATGC	5	794; 1527; 1883; 2054; 3557
MabI	A!CCWGGT	0	
MaeI	C!TAG	6	948; 1696; 1805; 2712; 2965; 3300
MaeII	A!CGT	9	310; 442; 1286; 1461; 1970; 2920; 3336; 3709; 4029
MaeIII	!GTNAC	12	1256; 1361; 1871; 1966; 2573; 2636; 2752; 3035; 3366; 3424; 3577; 3765
MaI	GA!TC	22	122; 128; 165; 480; 528; 543; 595; 748; 863; 2785; 2860; 2871; 2879; 2957; 2969; 3074; 3415; 3433; 3479; 3737; 3754; 3790
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	1	1802
MbiI	GAG!CGG	5	36; 68; 145; 2150; 3951

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MboI	!GATC	22	120; 126; 163; 478; 526; 541; 593; 746; 861; 2783; 2858; 2869; 2877; 2955; 2967; 3072; 3413; 3431; 3477; 3735; 3752; 3788
MboII	GAAGANNNNNNNN!	3	275; 831; 2879
MboII	!NNNNNNNTCTTC	8	521; 1474; 2088; 2950; 3705; 3783; 3892; 4088
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	59
MflI	R!GATCY	8	126; 861; 2858; 2869; 2955; 2967; 3735; 3752
MhlI	GDGCH!C	10	231; 270; 504; 571; 717; 1670; 2037; 2535; 3696; 3781
MlsI	TGG!CCA	1	1466
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	1466
MlyI	GAGTCNNNNN!	1	2597
MlyI	!NNNNNGACTC	4	842; 1684; 2111; 3099
Mly113I	GG!CGCC	1	277
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	2	2432; 2616
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	0	
MnlI	CCTCNNNNNNN!	8	10; 885; 1824; 1854; 2116; 2399; 3277; 3483
MnlI	!NNNNNGAGG	14	92; 111; 218; 416; 458; 509; 734; 1045; 1696; 2325; 2649; 3049; 3130; 4077
Mph1103I	ATGCA!T	0	
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1195
MroNI	G!CCGGC	1	468
MroXI	GAANN!NNTTC	2	366; 3709
MscI	TGG!CCA	1	1466
MseI	T!TAA	17	108; 831; 1118; 1457; 1599; 1651; 1672; 1998; 2923; 2975; 2980; 2994; 3047; 3282; 3321; 3686; 4058
MslI	CAYNN!NNRTG	3	3362; 3521; 3880
MspI	C!CGG	20	181; 469; 505; 801; 814; 918; 1154; 1196; 1324; 1863; 1897; 2424; 2571; 2597; 2787; 3191; 3225; 3292; 3402; 3644
Msp20I	TGG!CCA	1	1466
MspA1I	CMG!CKG	7	352; 1099; 1543; 1929; 2559; 2804; 3745
MspCI	C!TTAAG	0	
MspJI	CNNRRNNNNNNNN!	200	13; 49; 81; 94; 136; 152; 165; 179; 193; 209; 222; 246; 260; 283; 307; 321; 355; 371; 387; 412; 425; 446; 476; 503; 517; 536; 551; 575; 591; 609; 625; 638; 665; 678; 705; 722; 747; 762; 777; 794; 812; 826; 842; 856; 877; 890; 912; 930; 955; 969; 984; 1014; 1038; 1083; 1099; 1112; 1138; 1154; 1178; 1192; 1208; 1241; 1266; 1283; 1312; 1325; 1349; 1371; 1387; 1400; 1432; 1458; 1474; 1502; 1519; 1532; 1547; 1565; 1595; 1610; 1643; 1683; 1708; 1722; 1738; 1751; 1793; 1817; 1831; 1859; 1874; 1891; 1909; 1924; 1942; 1959; 1975; 1994; 2009; 2025; 2039; 2070; 2096; 2119; 2140; 2159; 2172; 2200; 2218; 2238; 2256; 2275; 2294; 2309; 2323; 2337; 2351; 2377; 2390; 2404; 2420; 2436; 2463; 2481; 2504; 2529; 2546; 2564; 2578; 2597; 2618; 2633; 2646; 2662; 2688; 2708; 2724; 2756; 2773; 2793; 2807; 2842; 2856; 2874; 2901; 2923; 2950; 2976; 3016; 3036; 3052; 3074; 3106; 3122; 3146; 3162; 3186; 3199; 3229; 3246; 3263; 3286; 3304; 3329; 3344; 3366; 3381; 3414; 3429; 3449; 3488; 3514; 3527; 3548; 3565; 3594; 3609; 3641; 3655; 3668; 3684; 3707; 3729; 3742; 3768; 3782; 3795; 3825; 3843; 3857; 3888; 3905; 3944; 3958; 3998; 4011; 4024; 4037; 4063; 4088

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	173	10; 49; 99; 117; 135; 153; 174; 192; 220; 243; 267; 285; 302; 322; 343; 361; 392; 420; 437; 455; 477; 499; 525; 549; 567; 599; 616; 637; 654; 680; 705; 723; 747; 768; 786; 821; 838; 863; 880; 904; 922; 939; 959; 988; 1035; 1073; 1094; 1124; 1158; 1181; 1211; 1240; 1257; 1285; 1309; 1331; 1350; 1388; 1407; 1432; 1457; 1476; 1502; 1530; 1548; 1569; 1605; 1622; 1649; 1666; 1686; 1713; 1733; 1753; 1773; 1791; 1810; 1832; 1849; 1869; 1894; 1912; 1932; 1950; 1979; 1998; 2027; 2052; 2074; 2093; 2110; 2128; 2164; 2181; 2204; 2230; 2249; 2270; 2288; 2311; 2330; 2351; 2376; 2393; 2410; 2435; 2464; 2483; 2504; 2529; 2547; 2571; 2592; 2620; 2641; 2669; 2688; 2712; 2736; 2758; 2791; 2808; 2828; 2850; 2873; 2905; 2924; 2951; 3000; 3037; 3054; 3088; 3113; 3135; 3160; 3177; 3203; 3221; 3249; 3278; 3299; 3316; 3340; 3359; 3382; 3403; 3425; 3445; 3472; 3503; 3539; 3561; 3584; 3605; 3625; 3642; 3688; 3718; 3736; 3760; 3780; 3799; 3823; 3853; 3917; 3934; 3959; 3976; 3997; 4020; 4037; 4058; 4078
MspR9I	CC!NGG	13	801; 919; 1376; 1432; 1680; 1863; 1898; 2245; 2366; 2379; 2597; 3293; 3644
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	59
MvaI	CC!WGG	6	1376; 1432; 1680; 2245; 2366; 2379
Mva1269I	GAATGCN!	2	1192; 1599
Mva1269I	G!CATTC	0	
MvnI	CG!CG	11	475; 631; 736; 1818; 1820; 1923; 2264; 2845; 3175; 3668; 4000
MvrI	CGAT!CG	1	3480
MwoI	GCNNNNN!NNGC	18	33; 142; 181; 226; 274; 481; 613; 637; 835; 953; 977; 1540; 2041; 2091; 2156; 2270; 2842; 3230
NaeI	GCC!GGC	1	470
NarI	GG!CGCC	1	277
NciI	CC!SGG	7	801; 919; 1863; 1898; 2597; 3293; 3644
NcoI	C!CATGG	3	157; 580; 1500
NdeI	CA!TATG	1	2040
NdeII	!GATC	22	120; 126; 163; 478; 526; 541; 593; 746; 861; 2783; 2858; 2869; 2877; 2955; 2967; 3072; 3413; 3431; 3477; 3735; 3752; 3788
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	2	3356; 3581
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	2	3392; 3617
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	1	468
NheI	G!CTAGC	1	947
NlaIII	CATG!	19	161; 251; 584; 671; 722; 1274; 1504; 1565; 1586; 1856; 1961; 2221; 2941; 3432; 3442; 3520; 3556; 3949; 4054
NlaIV	GGN!NCC	16	128; 185; 230; 278; 341; 503; 714; 716; 1667; 2249; 2288; 3060; 3154; 3195; 3406; 3996
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	2	200; 2330
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	294; 477; 1554; 1810
Nli3877I	CYCGR!G	3	5; 238; 517
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	1	3259
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	0	
NmeDI	RCCGGYNNNNNNN!	5	192; 480; 516; 825; 3202
NmeDI	!NNNNNNNNNNNNRCCGGY	5	167; 455; 491; 800; 3177
NmuCI	!GTSAC	4	1871; 1966; 3366; 3577
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3332
NsiI	ATGCA!T	0	
NspI	RCATG!Y	3	671; 1856; 2221
NspV	TT!CGAA	0	
OiiI	CACNN!NNGTG	0	
PabI	GTA!C	6	421; 781; 1079; 1617; 2026; 3591
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PaeR7I	C!TCGAG	1	1
PagI	T!CATGA	3	2937; 3945; 4050
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	1	1431
PauI	G!CGCGC	0	
PceI	AGG!CCT	0	
PciI	A!CATGT	1	2217
PciSI	GCTCTCN!	1	2101
PciSI	!NNNNGAAGAGC	1	258
PcsI	WCGNNNN!NNNCGW	4	418; 2143; 2541; 3418
PctI	GAATGCN!	2	1192; 1599
PctI	G!CATTG	0	
PdiI	GCC!GGC	1	470
PdmI	GAANN!NNTTC	2	366; 3709
PfeI	G!AWTC	4	55; 939; 1549; 2192
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	1964
PfIMI	CCANNNN!NTGG	2	314; 1431
PfoI	T!CCNGGA	1	1861
PhoI	GG!CC	18	148; 244; 468; 472; 715; 1112; 1157; 1379; 1466; 1743; 2232; 2243; 2261; 2695; 3153; 3233; 3500; 4087
PinAI	A!CCGGT	0	
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	2	2036; 2112
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	1161; 1515
PleI	GAGTCNNN!	1	2596
PleI	!NNNNNGACTC	4	842; 1684; 2111; 3099
Ple19I	CGAT!CG	1	3480
PmaCI	CAC!GTG	2	311; 443
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	2	311; 443
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2932
PpiI	!NNNNNNNGAGNNNNNGTTC	1	3742
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3774
PpiI	!NNNNNNNGAACNNNNNCTC	1	2900
PpsI	GAGTCNNN!	1	2596
PpsI	!NNNNNGACTC	4	842; 1684; 2111; 3099
Ppu10I	A!TGCAT	0	
Ppu21I	YAC!GTR	3	311; 443; 1971
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	2217
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	3282
PsiI	TTA!TAA	1	49
Psp03I	GGWC!C	2	3251; 3473
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	6	1374; 1430; 1678; 2243; 2364; 2377
Psp1406I	AA!CGTT	3	1286; 3336; 3709
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	2	311; 443
PspEI	G!GTNACC	0	
PspGI	!CCWGG	6	1374; 1430; 1678; 2243; 2364; 2377
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	16	128; 185; 230; 278; 341; 503; 714; 716; 1667; 2249; 2288; 3060; 3154; 3195; 3406; 3996
PspOMI	G!GGCCC	1	713
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	0	
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	0	
PspPI	G!GNCC	9	242; 713; 714; 1741; 3152; 3231; 3248; 3470; 4086
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	4	367; 712; 895; 3174
PspPRI	!NNNNNNNNNNNNNCTGRGG	1	1666
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	716; 4089
PstI	CTGCA!G	1	706
PstNI	CAGNNN!CTG	1	2633
PsuI	R!GATCY	8	126; 861; 2858; 2869; 2955; 2967; 3735; 3752
PsyI	GACN!NNGTC	1	1964
PteI	G!CGCGC	0	
PvuI	CGAT!CG	1	3480
PvuII	CAG!CTG	1	1099
RcaI	T!CATGA	3	2937; 3945; 4050
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	0	
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	1	472
RleAI	CCCACANNNNNNNNNNNNN!	0	
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	2	448; 541
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	420; 780; 1078; 1616; 2025; 3590
RsaNI	G!TAC	6	419; 779; 1077; 1615; 2024; 3589
RseI	CAYNN!NNRTG	3	3362; 3521; 3880
RsrII	CG!GWCCG	0	
Rsr2I	CG!GWCCG	0	
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTCN!	1	2101
SapI	!NNNNGAAGAGC	1	258
SaqAI	T!TAA	17	108; 831; 1118; 1457; 1599; 1651; 1672; 1998; 2923; 2975; 2980; 2994; 3047; 3282; 3321; 3686; 4058
SatI	GC!NGC	34	146; 173; 218; 245; 353; 392; 431; 438; 473; 551; 605; 638; 734; 915; 1541; 1800; 1811; 1857; 1954; 2007; 2123; 2144; 2262; 2417; 2560; 2625; 2628; 2834; 3099; 3162; 3501; 3528; 3623; 3852
Sau96I	G!GNCC	9	242; 713; 714; 1741; 3152; 3231; 3248; 3470; 4086
Sau3AI	!GATC	22	120; 126; 163; 478; 526; 541; 593; 746; 861; 2783; 2858; 2869; 2877; 2955; 2967; 3072; 3413; 3431; 3477; 3735; 3752; 3788
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	2	1616; 3590
SchI	GAGTCNNNNN!	1	2597
SchI	!NNNNNGACTC	4	842; 1684; 2111; 3099
SciI	CTC!GAG	1	3
ScrFI	CC!NGG	13	801; 919; 1376; 1432; 1680; 1863; 1898; 2245; 2366; 2379; 2597; 3293; 3644
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	3	992; 3267; 3513
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	830; 1759; 2380
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNTCAYNNNNNGTC	1	3357
SdeOSI	TCAYNNNNGTCNNNNNNNNNNNNNN!	1	3391
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	10	231; 270; 504; 571; 717; 1670; 2037; 2535; 3696; 3781
SelI	!CGCG	11	473; 629; 734; 1816; 1818; 1921; 2262; 2843; 3173; 3666; 3998
SetI	ASST!	59	2; 211; 288; 301; 313; 345; 445; 450; 456; 496; 574; 609; 621; 651; 766; 831; 840; 845; 877; 949; 953; 973; 982; 1082; 1101; 1230; 1289; 1377; 1464; 1533; 1557; 1701; 1812; 1846; 1861; 1880; 1973; 2161; 2336; 2387; 2433; 2489; 2508; 2523; 2660; 2759; 2780; 2923; 2966; 3064; 3100; 3301; 3339; 3401; 3464; 3712; 4027; 4032; 4064



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SexAI	A!CCWGGT	0	
SfaAI	GCGAT!CGC	0	
SfaNI	GCATC!NNNNN!	11	184; 418; 706; 778; 1042; 1715; 2018; 2094; 2314; 3366; 3806
SfaNI	!NNNNNNNNNGATGC	5	794; 1527; 1883; 2054; 3557
SfcI	C!TRYAG	5	644; 702; 2482; 2673; 3351
SfiI	GGCCNNNN!NGGCC	0	
SfoI	GGC!GCC	1	278
Sfr274I	C!TCGAG	1	1
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	0	
SgeI	CNNGNNNNNNNNN!	155	13; 136; 152; 165; 179; 193; 209; 222; 246; 260; 293; 311; 361; 383; 418; 434; 453; 476; 503; 517; 536; 551; 575; 593; 609; 625; 638; 665; 680; 706; 722; 747; 773; 794; 812; 826; 856; 877; 901; 919; 956; 969; 1014; 1099; 1112; 1156; 1184; 1208; 1241; 1266; 1283; 1312; 1325; 1361; 1387; 1443; 1458; 1474; 1502; 1532; 1556; 1574; 1595; 1643; 1691; 1708; 1751; 1793; 1817; 1831; 1865; 1891; 1909; 1924; 1942; 1959; 1976; 2005; 2101; 2119; 2140; 2159; 2208; 2230; 2245; 2275; 2309; 2337; 2356; 2377; 2390; 2404; 2425; 2443; 2463; 2490; 2530; 2546; 2564; 2583; 2597; 2618; 2633; 2646; 2667; 2695; 2724; 2762; 2793; 2817; 2842; 2856; 2876; 2901; 2931; 2950; 2977; 3036; 3114; 3127; 3146; 3162; 3186; 3203; 3229; 3247; 3263; 3286; 3304; 3329; 3366; 3381; 3414; 3429; 3451; 3529; 3565; 3594; 3610; 3642; 3655; 3668; 3729; 3744; 3768; 3786; 3825; 3849; 3888; 3944; 3958; 4011; 4037; 4063; 4093
SgeI	!NNNNNNNNNNNNNCNNG	134	110; 135; 153; 174; 192; 220; 243; 267; 285; 335; 357; 392; 420; 450; 477; 499; 525; 549; 567; 599; 616; 639; 663; 680; 705; 723; 747; 768; 786; 830; 851; 875; 893; 930; 952; 988; 1073; 1130; 1158; 1182; 1215; 1240; 1257; 1286; 1310; 1335; 1361; 1417; 1448; 1476; 1506; 1530; 1548; 1569; 1617; 1665; 1682; 1725; 1767; 1791; 1839; 1865; 1883; 1903; 1926; 1944; 1979; 2075; 2093; 2114; 2133; 2182; 2204; 2230; 2249; 2283; 2311; 2330; 2351; 2376; 2399; 2417; 2437; 2464; 2504; 2529; 2557; 2582; 2607; 2627; 2669; 2698; 2736; 2767; 2791; 2816; 2850; 2875; 2905; 2924; 2951; 3010; 3088; 3120; 3142; 3160; 3177; 3203; 3221; 3260; 3278; 3303; 3340; 3359; 3388; 3408; 3425; 3503; 3539; 3568; 3616; 3642; 3703; 3742; 3760; 3799; 3823; 3862; 3918; 3985; 4011; 4037; 4067; 4089
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	1	2892
SimI	!GACCC	4	796; 1960; 2409; 3178
SinI	G!GWCC	2	3248; 3470
SlaI	C!TCGAG	1	1
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	3	3362; 3521; 3880
SmlI	C!TYRAG	6	1; 1700; 2323; 2585; 2862; 3730
SmoI	C!TYRAG	6	1; 1700; 2323; 2585; 2862; 3730
SmuI	CCCGCNNNN!	4	161; 414; 621; 1184
SmuI	!NNNNNNNGCGGG	2	1628; 1922
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	0	
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	13	17; 44; 59; 76; 88; 105; 832; 1199; 1604; 1643; 2977; 3283; 3538
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	0	



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TstI	!NNNNNNNGGANNNNNGTG	1	153
TstI	GGANNNNNGTGNNNNNNNNNNNN!	1	185
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	1964
Tth111II	CAARCANNNNNNNNNN!	2	2807; 2846
Tth111III	!NNNNNNNNNTGYTTG	2	1751; 2814
UnbI	!GGNCC	9	241; 712; 713; 1740; 3151; 3230; 3247; 3469; 4085
Van91I	CCANNNN!NTGG	2	314; 1431
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	3	2033; 2531; 3777
VpaK11AI	!GGWCC	2	3247; 3469
VpaK11BI	G!GWCC	2	3248; 3470
VspI	AT!TAAT	1	3282
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	2	17; 1199
XbaI	T!CTAGA	1	1804
XceI	RCATG!Y	3	671; 1856; 2221
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	1
XhoII	R!GATCY	8	126; 861; 2858; 2869; 2955; 2967; 3735; 3752
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	0	
XmiI	GT!MKAC	1	1989
XmnI	GAANN!NNTTC	2	366; 3709
XspI	C!TAG	6	948; 1696; 1805; 2712; 2965; 3300
ZraI	GAC!GTC	1	4030
ZrmI	AGT!ACT	2	1616; 3590
Zsp2I	ATGCA!T	0	