

pKillerRed-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	490
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	2	1938; 2351
AatI	AGG!CCT	0	
AatII	GACGT!C	1	4058
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	2015
AccII	CG!CG	12	545; 698; 770; 788; 1844; 1846; 1949; 2290; 2871; 3201; 3694; 4026
AccIII	T!CCGGA	1	1221
Acc16I	TGC!GCA	1	3358
Acc36I	ACCTGCNNNN!	1	490
Acc36I	!NNNNNNNNGCAGGT	0	
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	3	442; 1691; 3084
AccB7I	CCANNNN!NTGG	3	305; 555; 1457
AccBSI	CCG!CTC	1	1828
AccBSI	GAG!CGG	4	36; 68; 2176; 3977
AceIII	CAGCTCNNNNNNN!	3	1895; 2195; 3435
AceIII	!NNNNNNNNNNGAGCTG	4	291; 457; 1240; 1822
AcI	C!CGC	28	152; 354; 417; 495; 638; 696; 816; 941; 1203; 1567; 1823; 1826; 2083; 2109; 2126; 2288; 2316; 2443; 2462; 2583; 2828; 3199; 3290; 3527; 3692; 3769; 3878; 4024
AcI	G!CGG	19	36; 68; 146; 647; 1661; 1916; 1955; 1965; 2007; 2032; 2070; 2169; 2176; 2197; 2693; 2837; 3481; 3648; 3977
AcII	AA!CGTT	3	1312; 3362; 3735
AcIWI	GGATCNNNN!	4	129; 2892; 2989; 3769
AcIWI	!NNNNNGATCC	9	122; 321; 702; 882; 2804; 2890; 2988; 3452; 3773
AcoI	Y!GGCCR	4	207; 227; 1490; 3524
AcsI	R!AATY	2	17; 1225
AcuI	CTGAAGNNNNNNNNNNNNNNN!	1	2791
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	3803
AcvI	CAC!GTG	1	777
AcyI	GR!CGYC	2	3673; 4055
AdeI	CACNNN!GTG	3	276; 726; 810
AfaI	GT!AC	5	334; 1104; 1642; 2051; 3616
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	10	305; 555; 657; 789; 1457; 1894; 2265; 2283; 2449; 2728
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	3	581; 776; 2243
AgeI	A!CCGGT	0	
AgsI	TTS!AA	10	59; 180; 264; 687; 851; 2712; 3914; 3937; 3947; 3991
AhdI	GACNNN!NNGTC	1	3136
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	7	383; 1400; 1456; 1704; 2269; 2390; 2403
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	2	223; 484
AlfI	GCANNNNNTGCNNNNNNNNNNN!	0	
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	0	
AloI	GAACNNNNNTCCNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AloI	!NNNNNNNGGANNNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	0	
AluI	AG!CT	26	294; 305; 471; 552; 615; 855; 864; 869; 973; 977; 997; 1006; 1125; 1254; 1725; 1836; 1885; 1904; 2185; 2411; 2547; 2804; 3124; 3325; 3425; 3488
AluBI	AG!CT	26	294; 305; 471; 552; 615; 855; 864; 869; 973; 977; 997; 1006; 1125; 1254; 1725; 1836; 1885; 1904; 2185; 2411; 2547; 2804; 3124; 3325; 3425; 3488
AlwI	GGATCNNNN!	4	129; 2892; 2989; 3769
AlwI	!NNNNNGATCC	9	122; 321; 702; 882; 2804; 2890; 2988; 3452; 3773
Alw21I	GWGCW!C	5	272; 2063; 2561; 3722; 3807
Alw26I	GTCTCN!	2	1449; 3973
Alw26I	!NNNNNGAGAC	4	277; 568; 1886; 3197
Alw44I	G!TGCAC	4	268; 2059; 2557; 3803
AlwNI	CAGNNN!CTG	1	2659
Ama87I	C!YCGRG	2	1; 397
Aor13HI	T!CCGGA	1	1221
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	1	2068
ApaLI	G!TGCAC	4	268; 2059; 2557; 3803
ApeKI	G!CWGC	16	236; 239; 294; 692; 1836; 1882; 1979; 2148; 2166; 2585; 2650; 2653; 2859; 3124; 3187; 3553
ApoI	R!AATTY	2	17; 1225
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	3	215; 437; 2367
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	0	
AquI	GCCGNACNNNNNNNNNNNNNNNNNNNN!	0	
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	314
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	125
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	2	375; 2111
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	1	1524
ArsI	!NNNNNCCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNGTCCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	1	1492
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	3308
Asi256I	G!ATC	18	122; 128; 327; 708; 888; 2810; 2885; 2896; 2904; 2982; 2994; 3099; 3440; 3458; 3504; 3762; 3779; 3815
AsiGI	A!CCGGT	0	
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	1990
Asp700I	GAANN!NNTTC	1	3735
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	0	
AspEI	GACNNN!NNGTC	1	3136
AspLEI	GCG!C	21	428; 545; 611; 700; 770; 788; 829; 1846; 1949; 1979; 2120; 2153; 2423; 2490; 2590; 2764; 2873; 3266; 3359; 3696; 4028
AspS9I	G!GNCC	12	148; 402; 532; 595; 660; 715; 1767; 3178; 3257; 3274; 3496; 4112
AssI	AGT!ACT	2	1642; 3616
AsuII	TT!CGAA	0	
AsuC2I	CC!SGG	7	713; 945; 1889; 1924; 2623; 3319; 3670
AsuHPI	GGTGANNNNNNNN!	10	213; 501; 972; 1261; 1405; 1473; 1807; 1865; 3622; 3863
AsuHPI	!NNNNNNNTCACC	12	210; 492; 624; 729; 813; 1267; 1461; 1515; 2979; 3206; 3828; 4117
AsuNHI	G!CTAGC	1	973
AvaI	C!YCGRG	2	1; 397
AvaII	G!GWCC	2	3274; 3496
AviII	TGC!GCA	1	3358
AvrII	C!CTAGG	0	
AxyI	CC!TNAGG	0	
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BaeI	GRTACNNNNGTNNNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	6	272; 815; 1696; 2063; 2561; 3807
BalI	TGG!CCA	1	1492
BamHI	G!GATCC	1	127
BanI	G!GYRCC	3	442; 1691; 3084
BanII	GRGCY!C	1	344
BanIII	AT!CGAT	0	
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNN!NTGG	3	305; 555; 1457
BauI	C!ACGAG	1	4107
BauI	C!TCGTG	2	2416; 3800
BbeI	GGCGC!C	0	
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	1	4109
BbrPI	CAC!GTG	1	777
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNNGTCTTC	1	4114
BbuI	GCATG!C	0	
BbvI	GCAGCNNNNNNNN!	7	248; 704; 1894; 1991; 2662; 2871; 3565
BbvI	!NNNNNNNNNNNGCTGC	7	281; 1823; 2135; 2153; 2572; 3111; 3174
Bbv12I	GWGCW!C	5	272; 2063; 2561; 3722; 3807
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	10	229; 322; 544; 709; 739; 838; 919; 3180; 3304; 3591
BccI	!NNNNNGATGG	2	651; 1594
BceAI	ACGGCNNNNNNNNNNNN!	12	210; 249; 270; 351; 381; 456; 531; 609; 660; 705; 1151; 2745
BceAI	!NNNNNNNNNNNNNGCCGT	3	259; 589; 1576
Bcefl	ACGGCNNNNNNNNNNNN!	12	210; 249; 270; 351; 381; 456; 531; 609; 660; 705; 1151; 2745
Bcefl	!NNNNNNNNNNNNNGCCGT	3	260; 590; 1577
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	1	3675
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNNTGC	1	3641
BciVI	GTATCCNNNNNN!	0	
BciVI	!NNNNNGGATAC	2	2446; 3973
BclI	T!GATCA	0	
BcnI	CC!SGG	7	713; 945; 1889; 1924; 2623; 3319; 3670
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNNN!	4	514; 751; 1100; 2348
BdaI	!NNNNNNNNNNTGANNNNNNNTCA	4	480; 717; 1066; 2314
BfaI	C!TAG	6	974; 1722; 1831; 2738; 2991; 3326
BfiI	ACTGGGNNNNNN!	1	1774
BfiI	!NNNNCCCAGT	2	1984; 3176
BfmI	C!TRYAG	3	2508; 2699; 3377
BfoI	RGCGC!Y	3	830; 2121; 2491
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	0	
BfuI	!NNNNNGGATAC	2	2446; 3973
BfuAI	ACCTGCNNNN!	1	490
BfuAI	!NNNNNNNNNGCAGGT	0	
BfuCI	!GATC	18	121; 127; 326; 707; 887; 2809; 2884; 2895; 2903; 2981; 2993; 3098; 3439; 3457; 3503; 3761; 3778; 3814
BglI	GCCNNNN!NGGC	1	3256
BglII	A!GATCT	0	
BisI	GC!NGC	29	147; 237; 240; 295; 495; 648; 693; 696; 941; 1567; 1826; 1837; 1883; 1980; 2033; 2149; 2170; 2288; 2443; 2586; 2651; 2654; 2860; 3125; 3188; 3527; 3554; 3649; 3878
BlnI	C!CTAGG	0	
BlpI	GC!TNAGC	1	865

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BlsI	GCN!GC	29	148; 238; 241; 296; 496; 649; 694; 697; 942; 1568; 1827; 1838; 1884; 1981; 2034; 2150; 2171; 2289; 2444; 2587; 2652; 2655; 2861; 3126; 3189; 3528; 3555; 3650; 3879
BmcAI	AGT!ACT	2	1642; 3616
Bme18I	G!GWCC	2	3274; 3496
Bme1390I	CC!NGG	14	385; 713; 945; 1402; 1458; 1706; 1889; 1924; 2271; 2392; 2405; 2623; 3319; 3670
BmeRI	GACNNN!NNGTC	1	3136
BmeT110I	C!YCGRG	2	1; 397
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	12	149; 403; 533; 596; 661; 716; 1768; 3179; 3258; 3275; 3497; 4113
BmiI	GGN!NCC	13	129; 150; 444; 534; 597; 1693; 2275; 2314; 3086; 3180; 3221; 3432; 4022
BmrI	ACTGGGNNNNN!	1	1774
BmrI	!NNNNCCCAGT	2	1984; 3176
BmrFI	CC!NGG	14	385; 713; 945; 1402; 1458; 1706; 1889; 1924; 2271; 2392; 2405; 2623; 3319; 3670
BmsI	GCATCNNNNN!	11	377; 419; 506; 827; 1068; 1741; 2044; 2120; 2340; 3392; 3832
BmsI	!NNNNNNNNNGATGC	4	1553; 1909; 2080; 3583
BmtI	GCTAG!C	1	977
BmuI	ACTGGGNNNNN!	1	1774
BmuI	!NNNNCCCAGT	2	1984; 3176
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	1	4114
BpI	GAGNNNNCTCNNNNNNNNNNNN!	0	
BpI	!NNNNNNNGAGNNNNNNCTC	0	
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	1347
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	1	3206
Bpu10I	CC!TNAGC	1	406
Bpu10I	GC!TNAGG	1	998
Bpu14I	TT!CGAA	0	
Bpu1102I	GC!TNAGC	1	865
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	1	4114
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	1747; 2632
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	3	2334; 2873; 3741
BpuMI	CC!SGG	7	713; 945; 1889; 1924; 2623; 3319; 3670
BpvUI	CGAT!CG	1	3506
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	277; 568; 3197
Bsa29I	AT!CGAT	0	
BsaAI	YAC!GTR	2	777; 1997
BsaBI	GATNN!NNATC	1	126
BsaHI	GR!CGYC	2	3673; 4055
BsaJI	C!CNNGG	11	131; 252; 383; 398; 591; 711; 1456; 1457; 1526; 1705; 2403
BsaMI	GAATGCN!	2	1218; 1625
BsaMI	G!CATTC	0	
BsaWI	W!CCGGW	4	1221; 2449; 2596; 3427
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	0	
BsaXI	!NNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNNCTCC	0	
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	1	1939
Bsc4I	CCNNNNN!NNGG	10	305; 555; 657; 789; 1457; 1894; 2265; 2283; 2449; 2728
BscAI	GCATCNNNN!	11	376; 418; 505; 826; 1067; 1740; 2043; 2119; 2339; 3391; 3831
BscAI	!NNNNNNGATGC	4	1556; 1912; 2083; 3586
Bse1I	ACTGGN!	6	1032; 1769; 2023; 2651; 2664; 3612
Bse1I	C!CAGT	9	330; 891; 1472; 1990; 2776; 3182; 3300; 3343; 3782
Bse8I	GATNN!NNATC	1	126
Bse21I	CC!TNAGG	0	
Bse118I	R!CCGGY	2	286; 3216

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BseAI	T!CCGGA	1	1221
BseBI	CC!WGG	7	385; 1402; 1458; 1706; 2271; 2392; 2405
BseCI	AT!CGAT	0	
BseDI	C!CNNGG	11	131; 252; 383; 398; 591; 711; 1456; 1457; 1526; 1705; 2403
Bse3DI	GCAATGNN!	2	1244; 3197
Bse3DI	!CATTGC	1	3371
BseGI	GGATGNN!	1	1924
BseGI	!CATCC	5	560; 1218; 3115; 3296; 3583
BseJI	GATNN!NNATC	1	126
BseLI	CCNNNNN!NNGG	10	305; 555; 657; 789; 1457; 1894; 2265; 2283; 2449; 2728
BseMI	GCAATGNN!	2	1244; 3197
BseMI	!CATTGC	1	3371
BseMII	CTCAGNNNNNNNNN!	6	916; 1460; 1766; 2532; 2941; 3107
BseMII	!NNNNNNNNCTGAG	5	397; 856; 1799; 2044; 3624
BseNI	ACTGGN!	6	1032; 1769; 2023; 2651; 2664; 3612
BseNI	C!CAGT	9	330; 891; 1472; 1990; 2776; 3182; 3300; 3343; 3782
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNN!	1	115
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	6	272; 815; 1696; 2063; 2561; 3807
BseXI	GCAGCNNNNNNNN!	7	248; 704; 1894; 1991; 2662; 2871; 3565
BseXI	!NNNNNNNNNNNGCTGC	7	281; 1823; 2135; 2153; 2572; 3111; 3174
BseX3I	C!GGCCG	0	
BseYI	C!CCAGC	0	
BseYI	G!CTGGG	1	2547
BsgI	GTGCAGNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	12	545; 698; 770; 788; 1844; 1846; 1949; 2290; 2871; 3201; 3694; 4026
Bsh1285I	CGRY!CG	4	417; 2583; 3506; 3655
BshFI	GG!CC	24	149; 209; 229; 404; 533; 596; 619; 650; 662; 716; 796; 1138; 1183; 1405; 1492; 1769; 2258; 2269; 2287; 2721; 3179; 3259; 3526; 4113
BshNI	G!GYRCC	3	442; 1691; 3084
BshTI	A!CCGGT	0	
BshVI	AT!CGAT	0	
BsiEI	CGRY!CG	4	417; 2583; 3506; 3655
BsiHKAI	GWGCW!C	5	272; 2063; 2561; 3722; 3807
BsiHKCI	C!YCGRG	2	1; 397
BsiSI	C!CGG	17	287; 713; 944; 1180; 1222; 1350; 1889; 1923; 2450; 2597; 2623; 2813; 3217; 3251; 3318; 3428; 3670
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	10	305; 555; 657; 789; 1457; 1894; 2265; 2283; 2449; 2728
BsIFI	GGGACNNNNNNNNN!	1	766
BsIFI	!NNNNNNNNNNNNNGTCCC	0	
BsmI	GAATGCN!	2	1218; 1625
BsmI	G!CATTC	0	
BsmAI	GTCTCN!	2	1449; 3973
BsmAI	!NNNNNGAGAC	4	277; 568; 1886; 3197
BsmBI	CGTCTCN!	1	1449
BsmBI	!NNNNNGAGACG	1	1886
BsmFI	GGGACNNNNNNNNN!	1	766
BsmFI	!NNNNNNNNNNNNNGTCCC	0	
BsnI	GG!CC	24	149; 209; 229; 404; 533; 596; 619; 650; 662; 716; 796; 1138; 1183; 1405; 1492; 1769; 2258; 2269; 2287; 2721; 3179; 3259; 3526; 4113
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	277; 568; 3197
BsoBI	C!YCGRG	2	1; 397
Bsp13I	T!CCGGA	1	1221
Bsp19I	C!CATGG	2	131; 1526
Bsp24I	GACNNNNNNTGGNNNNNNNNNNN!	2	2768; 2946
Bsp24I	!NNNNNNCCANNNNNNNGTC	1	4040
Bsp24I	CCANNNNNNGTCTNNNNNNNNNNNNN!	1	4072
Bsp24I	!NNNNNNNNGACNNNNNNNTGG	2	2736; 2914

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Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	0	
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	18	121; 127; 326; 707; 887; 2809; 2884; 2895; 2903; 2981; 2993; 3098; 3439; 3457; 3503; 3761; 3778; 3814
Bsp1286I	GDGCH!C	8	272; 344; 815; 1696; 2063; 2561; 3722; 3807
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	1	865
BspACI	C!CGC	28	152; 354; 417; 495; 638; 696; 816; 941; 1203; 1567; 1823; 1826; 2083; 2109; 2126; 2288; 2316; 2443; 2462; 2583; 2828; 3199; 3290; 3527; 3692; 3769; 3878; 4024
BspACI	G!CGG	19	36; 68; 146; 647; 1661; 1916; 1955; 1965; 2007; 2032; 2070; 2169; 2176; 2197; 2693; 2837; 3481; 3648; 3977
BspCNI	CTCAGNNNNNNNN!	6	915; 1459; 1765; 2531; 2940; 3106
BspCNI	!NNNNNNCTGAG	5	398; 857; 1800; 2045; 3625
BspDI	AT!CGAT	0	
BspD6I	GACTCNNNN!	4	882; 1724; 2151; 3139
BspD6I	!NNNNNGAGTC	1	2607
BspEI	T!CCGGA	1	1221
BspFNI	CG!CG	12	545; 698; 770; 788; 1844; 1846; 1949; 2290; 2871; 3201; 3694; 4026
BspHI	T!CATGA	3	2963; 3971; 4076
BspLI	GGN!NCC	13	129; 150; 444; 534; 597; 1693; 2275; 2314; 3086; 3180; 3221; 3432; 4022
BspMI	ACCTGCNNNN!	1	490
BspMI	!NNNNNNNGCAGGT	0	
BspOI	GCTAG!C	1	977
BspPI	GGATCNNNN!	4	129; 2892; 2989; 3769
BspPI	!NNNNNGATCC	9	122; 321; 702; 882; 2804; 2890; 2988; 3452; 3773
BspQI	GCTCTCN!	1	2127
BspQI	!NNNNGAAGAGC	0	
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	0	
BspT107I	G!GYRCC	3	442; 1691; 3084
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	277; 568; 3197
BsrI	ACTGGN!	6	1032; 1769; 2023; 2651; 2664; 3612
BsrI	C!CAGT	9	330; 891; 1472; 1990; 2776; 3182; 3300; 3343; 3782
BsrBI	CCG!CTC	1	1828
BsrBI	GAG!CGG	4	36; 68; 2176; 3977
BsrDI	GCAATGNN!	2	1244; 3197
BsrDI	!CATTGC	1	3371
BsrFI	R!CCGGY	2	286; 3216
BsrGI	T!GTACA	0	
BsrSI	ACTGGN!	6	1032; 1769; 2023; 2651; 2664; 3612
BsrSI	C!CAGT	9	330; 891; 1472; 1990; 2776; 3182; 3300; 3343; 3782
BssAI	R!CCGGY	2	286; 3216
BssECI	C!CNNGG	11	131; 252; 383; 398; 591; 711; 1456; 1457; 1526; 1705; 2403
BssHII	G!CGCGC	0	
BssKI	!CCNGG	14	383; 711; 943; 1400; 1456; 1704; 1887; 1922; 2269; 2390; 2403; 2621; 3317; 3668
BssMI	!GATC	18	121; 127; 326; 707; 887; 2809; 2884; 2895; 2903; 2981; 2993; 3098; 3439; 3457; 3503; 3761; 3778; 3814
BssNI	GR!CGYC	2	3673; 4055
BssNAI	GTA!TAC	1	2016
BssSI	C!ACGAG	1	4107
BssSI	C!TCGTG	2	2416; 3800
BssTII	C!CWGGG	2	131; 1526
Bst6I	CTCTCN!	2	2127; 3931
Bst6I	!NNNNGAAGAG	0	
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	1	2016
BstACI	GR!CGYC	2	3673; 4055
BstAFI	C!TTAAG	0	
BstAPI	GCANNN!NTGC	1	2067
BstAUI	T!GTACA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstBI	TT!CGAA	0	
Bst2BI	C!ACGAG	1	4107
Bst2BI	C!TCGTG	2	2416; 3800
BstBAI	YAC!GTR	2	777; 1997
Bst4CI	ACN!GT	16	423; 504; 1041; 1119; 1152; 1249; 1290; 1393; 1640; 1862; 1897; 2207; 2278; 2748; 3061; 3576
BstC8I	GCN!NGC	16	272; 292; 340; 354; 613; 617; 784; 811; 975; 1203; 1571; 2174; 2260; 2297; 2857; 3248
BstDEI	C!TNAG	13	406; 865; 902; 998; 1446; 1752; 1808; 2053; 2518; 2927; 3093; 3633; 4059
BstDSI	C!CRYGG	4	131; 252; 591; 1526
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	1	1924
BstF5I	!CATCC	5	560; 1218; 3115; 3296; 3583
BstFNI	CG!CG	12	545; 698; 770; 788; 1844; 1846; 1949; 2290; 2871; 3201; 3694; 4026
BstH2I	RGCGC!Y	3	830; 2121; 2491
BstHHI	GCG!C	21	428; 545; 611; 700; 770; 788; 829; 1846; 1949; 1979; 2120; 2153; 2423; 2490; 2590; 2764; 2873; 3266; 3359; 3696; 4028
BstKTI	GAT!C	18	124; 130; 329; 710; 890; 2812; 2887; 2898; 2906; 2984; 2996; 3101; 3442; 3460; 3506; 3764; 3781; 3817
BstMAI	GTCTCN!	2	1449; 3973
BstMAI	!NNNNNGAGAC	4	277; 568; 1886; 3197
BstMBI	!GATC	18	121; 127; 326; 707; 887; 2809; 2884; 2895; 2903; 2981; 2993; 3098; 3439; 3457; 3503; 3761; 3778; 3814
BstMCI	CGRY!CG	4	417; 2583; 3506; 3655
BstMWI	GCNNNNN!NNGC	17	33; 287; 416; 491; 549; 767; 815; 861; 979; 1003; 1566; 2067; 2117; 2182; 2296; 2868; 3256
BstNI	CC!WGG	7	385; 1402; 1458; 1706; 2271; 2392; 2405
BstNSI	RCATG!Y	3	585; 1882; 2247
BstOI	CC!WGG	7	385; 1402; 1458; 1706; 2271; 2392; 2405
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	14	383; 711; 943; 1400; 1456; 1704; 1887; 1922; 2269; 2390; 2403; 2621; 3317; 3668
BstSFI	C!TRYAG	3	2508; 2699; 3377
BstSLI	GKGC!C	6	272; 815; 1696; 2063; 2561; 3807
BstSNI	TAC!GTA	0	
BstUI	CG!CG	12	545; 698; 770; 788; 1844; 1846; 1949; 2290; 2871; 3201; 3694; 4026
Bst2UI	CC!WGG	7	385; 1402; 1458; 1706; 2271; 2392; 2405
BstV1I	GCAGCNNNNNNNN!	7	248; 704; 1894; 1991; 2662; 2871; 3565
BstV1I	!NNNNNNNNNNNGCTGC	7	281; 1823; 2135; 2153; 2572; 3111; 3174
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	1	4114
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	9	127; 707; 887; 2884; 2895; 2981; 2993; 3761; 3778
BstYI	R!GATCY	9	127; 707; 887; 2884; 2895; 2981; 2993; 3761; 3778
BstZI	C!GGCCG	0	
BstZ17I	GTA!TAC	1	2016
BsuI	GTATCCNNNNNN!	0	
BsuI	!NNNNNGGATAC	2	2446; 3973
Bsu15I	AT!CGAT	0	
Bsu36I	CC!TNAGG	0	
BsuRI	GG!CC	24	149; 209; 229; 404; 533; 596; 619; 650; 662; 716; 796; 1138; 1183; 1405; 1492; 1769; 2258; 2269; 2287; 2721; 3179; 3259; 3526; 4113
BsuTUI	AT!CGAT	0	
BtgI	C!CRYGG	4	131; 252; 591; 1526
BtgZI	GCGATGNNNNNNNNNN!	1	1661
BtgZI	!NNNNNNNNNNNNNCATCGC	1	1304
BthCI	GCNG!C	29	149; 239; 242; 297; 497; 650; 695; 698; 943; 1569; 1828; 1839; 1885; 1982; 2035; 2151; 2172; 2290; 2445; 2588; 2653; 2656; 2862; 3127; 3190; 3529; 3556; 3651; 3880
BtrI	CAC!GTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	1	3536
BtsI	!CACTGC	1	3556
BtsCI	GGATGNN!	1	1924
BtsCI	!CATCC	5	560; 1218; 3115; 3296; 3583
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	1	490
BveI	!NNNNNNNNGCAGGT	0	
Cac8I	GCN!NGC	16	272; 292; 340; 354; 613; 617; 784; 811; 975; 1203; 1571; 2174; 2260; 2297; 2857; 3248
CaiI	CAGNNN!CTG	1	2659
CciI	T!CATGA	3	2963; 3971; 4076
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	9	192; 225; 414; 627; 705; 834; 1063; 1322; 3387
CdiI	C!GATG	2	1647; 3788
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	2032
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	1	2295
CelII	GC!TNAGC	1	865
CfoI	GCG!C	21	428; 545; 611; 700; 770; 788; 829; 1846; 1949; 1979; 2120; 2153; 2423; 2490; 2590; 2764; 2873; 3266; 3359; 3696; 4028
CfrI	Y!GGCCR	4	207; 227; 1490; 3524
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	2	286; 3216
Cfr13I	G!GNCC	12	148; 402; 532; 595; 660; 715; 1767; 3178; 3257; 3274; 3496; 4112
Cfr42I	CCGC!GG	0	
ChaI	GATC!	18	125; 131; 330; 711; 891; 2813; 2888; 2899; 2907; 2985; 2997; 3102; 3443; 3461; 3507; 3765; 3782; 3818
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	5	743; 2089; 2295; 2850; 4073
CjeI	!NNNNNNNNNACNNNNNNNTGG	4	898; 2736; 2814; 2914
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	4	932; 2770; 2848; 2948
CjeI	!NNNNNNNNCCANNNNNNNGT	5	709; 2055; 2261; 2816; 4039
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	2801; 4073
CjePI	!NNNNNNNNNGANNNNNNNNTGG	4	2736; 2914; 3034; 3506
CjePI	GANNNNNNNNTGGNNNNNNNNNNNN!	4	2769; 2947; 3067; 3539
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	2768; 4040
Clal	AT!CGAT	0	
CpoI	CG!GWCCG	0	
CseI	GACGCNNNNN!	2	2354; 2932
CseI	!NNNNNNNNNNGCGTC	2	1938; 3662
CsiI	A!CCWGGT	0	
CspI	CG!GWCCG	0	
Csp6I	G!TAC	5	333; 1103; 1641; 2050; 3615
Csp45I	TT!CGAA	0	
CspAI	A!CCGGT	0	
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2122
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	1	3470
CviAII	C!ATG	20	132; 171; 300; 447; 540; 582; 1297; 1527; 1588; 1609; 1879; 1984; 2244; 2964; 3455; 3465; 3543; 3579; 3972; 4077
CviJI	RG!CY	77	149; 209; 229; 294; 305; 312; 342; 374; 404; 455; 471; 494; 518; 525; 533; 552; 596; 615; 619; 629; 650; 662; 695; 716; 796; 855; 864; 869; 973; 977; 997; 1006; 1125; 1138; 1183; 1254; 1405; 1450; 1492; 1604; 1725; 1751; 1769; 1836; 1885; 1904; 1937; 1982; 2022; 2166; 2185; 2258; 2269; 2287; 2313; 2411; 2547; 2552; 2577; 2656; 2721; 2732; 2775; 2804; 3124; 3167; 3179; 3220; 3246; 3250; 3259; 3325; 3415; 3425; 3488; 3526; 4113

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	77	149; 209; 229; 294; 305; 312; 342; 374; 404; 455; 471; 494; 518; 525; 533; 552; 596; 615; 619; 629; 650; 662; 695; 716; 796; 855; 864; 869; 973; 977; 997; 1006; 1125; 1138; 1183; 1254; 1405; 1450; 1492; 1604; 1725; 1751; 1769; 1836; 1885; 1904; 1937; 1982; 2022; 2166; 2185; 2258; 2269; 2287; 2313; 2411; 2547; 2552; 2577; 2656; 2721; 2732; 2775; 2804; 3124; 3167; 3179; 3220; 3246; 3250; 3259; 3325; 3415; 3425; 3488; 3526; 4113
CviQI	G!TAC	5	333; 1103; 1641; 2050; 3615
DdeI	C!TNAG	13	406; 865; 902; 998; 1446; 1752; 1808; 2053; 2518; 2927; 3093; 3633; 4059
DinI	GGC!GCC	0	
DpnI	GA!TC	18	123; 129; 328; 709; 889; 2811; 2886; 2897; 2905; 2983; 2995; 3100; 3441; 3459; 3505; 3763; 3780; 3816
DpnII	!GATC	18	121; 127; 326; 707; 887; 2809; 2884; 2895; 2903; 2981; 2993; 3098; 3439; 3457; 3503; 3761; 3778; 3814
DraI	TTT!AAA	5	1145; 1484; 3002; 3021; 3713
DraII	RG!GNCCY	2	402; 4112
DraIII	CACNNN!GTG	3	276; 726; 810
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNNNN!	0	
DraRI	!NNNNNNNNNNNNNNNNNNNGTCTTG	1	2687
DrdI	GACNNN!NNGTC	2	1938; 2351
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	1	3136
DseDI	GACNNN!NNGTC	2	1938; 2351
EaeI	Y!GGCCR	4	207; 227; 1490; 3524
EagI	C!GGCCG	0	
Eam1104I	CTCTTCN!	2	2127; 3931
Eam1104I	!NNNNGAAGAG	0	
Eam1105I	GACNNN!NNGTC	1	3136
EarI	CTCTTCN!	2	2127; 3931
EarI	!NNNNGAAGAG	0	
EciI	GGCGGANNNNNNNNNNNNNNNN!	0	
EciI	!NNNNNNNNNTCCGCC	4	1812; 2305; 2451; 3279
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	0	
Eco24I	GRGCY!C	1	344
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	3	277; 568; 3197
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	3274; 3496
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	0	
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	1	2791
Eco57I	!NNNNNNNNNNNNNNNNCTTCAG	1	3803
Eco72I	CAC!GTG	1	777
Eco81I	CC!TNAGG	0	
Eco88I	C!YCGRG	2	1; 397
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	2	131; 1526
Eco147I	AGG!CCT	0	
EcoHI	!CCSGG	7	711; 943; 1887; 1922; 2621; 3317; 3668
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	2	1347; 2791
Eco57MI	!NNNNNNNNNNNNNNNNCTYCAG	2	3206; 3803
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	402; 4112
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	7	383; 1400; 1456; 1704; 2269; 2390; 2403
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	2	131; 1526
EcoT22I	ATGCA!T	0	
EcoT38I	GRGCY!C	1	344

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	0	
EheI	GGC!GCC	0	
ErhI	C!CWWGG	2	131; 1526
EsaBC3I	TC!GA	9	3; 192; 414; 432; 669; 705; 1758; 2344; 3788
Esp3I	CGTCTCN!	1	1449
Esp3I	!NNNNNGAGACG	1	1886
FaeI	CATG!	20	135; 174; 303; 450; 543; 585; 1300; 1530; 1591; 1612; 1882; 1987; 2247; 2967; 3458; 3468; 3546; 3582; 3975; 4080
Fail	YA!TR	52	12; 49; 115; 133; 172; 301; 448; 541; 583; 1034; 1048; 1109; 1234; 1263; 1298; 1366; 1368; 1435; 1498; 1528; 1541; 1589; 1610; 1880; 1985; 2016; 2030; 2066; 2068; 2245; 2309; 2382; 2687; 2965; 3037; 3039; 3041; 3121; 3412; 3456; 3466; 3544; 3550; 3563; 3580; 3646; 3701; 3922; 3973; 3985; 4078; 4091
FalI	AAGNNNNNCTNNNNNNNNNNNN!	1	699
FalI	!NNNNNNNNAAGNNNNNCTT	1	667
FaqI	GGGACNNNNNNNNNN!	1	766
FaqI	!NNNNNNNNNNNNNGTCCC	0	
FatI	!CATG	20	131; 170; 299; 446; 539; 581; 1296; 1526; 1587; 1608; 1878; 1983; 2243; 2963; 3454; 3464; 3542; 3578; 3971; 4076
FauI	CCCGCNNNN!	4	159; 361; 823; 1210
FauI	!NNNNNGCGGG	2	1654; 1948
FauNDI	CA!TATG	1	2066
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	2015
FmuI	GGNC!C	12	151; 405; 535; 598; 663; 718; 1770; 3181; 3260; 3277; 3499; 4115
Fnu4HI	GC!NGC	29	147; 237; 240; 295; 495; 648; 693; 696; 941; 1567; 1826; 1837; 1883; 1980; 2033; 2149; 2170; 2288; 2443; 2586; 2651; 2654; 2860; 3125; 3188; 3527; 3554; 3649; 3878
FokI	GGATGNNNNNNNNN!	1	1931
FokI	!NNNNNNNNNNNNNCATCC	5	547; 1205; 3102; 3283; 3570
FriOI	GRGCY!C	1	344
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3358
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	6	974; 1722; 1831; 2738; 2991; 3326
FspEI	CCNNNNNNNNNNNN!	130	13; 144; 163; 189; 223; 243; 262; 288; 311; 326; 343; 357; 373; 388; 409; 430; 459; 477; 495; 516; 535; 549; 577; 591; 610; 625; 648; 664; 696; 714; 730; 744; 771; 787; 810; 827; 843; 891; 914; 954; 982; 1050; 1065; 1119; 1152; 1193; 1215; 1235; 1291; 1309; 1351; 1414; 1464; 1485; 1506; 1527; 1580; 1605; 1621; 1708; 1783; 1820; 1836; 1853; 1883; 1901; 1936; 1951; 1996; 2077; 2096; 2122; 2139; 2226; 2272; 2290; 2320; 2334; 2383; 2404; 2427; 2441; 2456; 2470; 2485; 2556; 2579; 2596; 2610; 2631; 2657; 2735; 2789; 2826; 2841; 2912; 3003; 3079; 3101; 3132; 3148; 3185; 3212; 3230; 3256; 3273; 3290; 3306; 3331; 3356; 3384; 3441; 3474; 3504; 3540; 3596; 3636; 3668; 3682; 3705; 3782; 3809; 3852; 3891; 3943; 4037; 4051; 4080; 4101; 4127
FspEI	!NNNNNNNNNNNNNNNGG	119	21; 53; 85; 104; 127; 179; 211; 239; 272; 291; 320; 350; 370; 425; 457; 500; 538; 578; 601; 629; 674; 698; 735; 775; 818; 856; 900; 919; 943; 964; 985; 1013; 1041; 1063; 1111; 1165; 1207; 1232; 1311; 1335; 1366; 1387; 1443; 1474; 1513; 1532; 1555; 1586; 1638; 1664; 1691; 1714; 1733; 1751; 1778; 1798; 1836; 1874; 1901; 1928; 1947; 1992; 2017; 2055; 2082; 2100; 2140; 2161; 2179; 2207; 2240; 2269; 2295; 2343; 2377; 2435; 2461; 2496; 2515; 2533; 2582; 2608; 2632; 2652; 2675; 2700; 2727; 2771; 2798; 2816; 2867; 2899; 2936; 2964; 3036; 3067; 3144; 3202; 3236; 3257; 3303; 3365; 3392; 3413; 3466; 3508; 3529; 3593; 3633; 3655; 3713; 3744; 3833; 3852; 3871; 3943; 3962; 4001; 4083
Fsp4HI	GC!NGC	29	147; 237; 240; 295; 495; 648; 693; 696; 941; 1567; 1826; 1837; 1883; 1980; 2033; 2149; 2170; 2288; 2443; 2586; 2651; 2654; 2860; 3125; 3188; 3527; 3554; 3649; 3878
GdiII	C!GGCCR	1	207
GdiII	Y!GGCCG	2	227; 3524
GlaI	GC!GC	21	427; 544; 610; 699; 769; 787; 828; 1845; 1948; 1978; 2119; 2152; 2422; 2489; 2589; 2763; 2872; 3265; 3358; 3695; 4027

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GluI	GC!NGC	29	147; 237; 240; 295; 495; 648; 693; 696; 941; 1567; 1826; 1837; 1883; 1980; 2033; 2149; 2170; 2288; 2443; 2586; 2651; 2654; 2860; 3125; 3188; 3527; 3554; 3649; 3878
GsaI	CCCAG!C	0	
GsaI	GCTGG!G	1	2551
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	1347
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3206
HaeI	WGG!CCW	7	619; 796; 1405; 1492; 2258; 2269; 2721
HaeII	RGCG!Y	3	830; 2121; 2491
HaeIII	GG!CC	24	149; 209; 229; 404; 533; 596; 619; 650; 662; 716; 796; 1138; 1183; 1405; 1492; 1769; 2258; 2269; 2287; 2721; 3179; 3259; 3526; 4113
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	1	3155
HaeIV	!NNNNNNNNNGAYNNNNNRTC	1	3121
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	1	3154
HaeIV	!NNNNNNNGAYNNNNNRTC	1	3123
HapII	C!CGG	17	287; 713; 944; 1180; 1222; 1350; 1889; 1923; 2450; 2597; 2623; 2813; 3217; 3251; 3318; 3428; 3670
HgaI	GACGCNNNNN!	2	2354; 2932
HgaI	!NNNNNNNNNNNGCGTC	2	1938; 3662
HhaI	GCG!C	21	428; 545; 611; 700; 770; 788; 829; 1846; 1949; 1979; 2120; 2153; 2423; 2490; 2590; 2764; 2873; 3266; 3359; 3696; 4028
HinI	GR!CGYC	2	3673; 4055
HinIII	CATG!	20	135; 174; 303; 450; 543; 585; 1300; 1530; 1591; 1612; 1882; 1987; 2247; 2967; 3458; 3468; 3546; 3582; 3975; 4080
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1232; 3154; 3228
Hin4I	!NNNNNNNNGABNNNNNRTC	1	3122
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	1	3154
Hin4I	!NNNNNNNNGAYNNNNNVTC	3	1200; 3122; 3196
Hin6I	G!CGC	21	426; 543; 609; 698; 768; 786; 827; 1844; 1947; 1977; 2118; 2151; 2421; 2488; 2588; 2762; 2871; 3264; 3357; 3694; 4026
HinPII	G!CGC	21	426; 543; 609; 698; 768; 786; 827; 1844; 1947; 1977; 2118; 2151; 2421; 2488; 2588; 2762; 2871; 3264; 3357; 3694; 4026
HincII	GTY!RAC	0	
HindII	GTY!RAC	0	
HindIII	A!AGCTT	1	853
HinfI	G!ANTC	9	55; 874; 965; 1575; 1716; 2143; 2218; 2614; 3131
HpaI	GTT!AAC	0	
HpaII	C!CGG	17	287; 713; 944; 1180; 1222; 1350; 1889; 1923; 2450; 2597; 2623; 2813; 3217; 3251; 3318; 3428; 3670
HphI	GGTGANNNNNNNN!	10	213; 501; 972; 1261; 1405; 1473; 1807; 1865; 3622; 3863
HphI	!NNNNNNNTCACC	12	210; 492; 624; 729; 813; 1267; 1461; 1515; 2979; 3206; 3828; 4117
Hpy8I	GTN!NAC	12	204; 218; 270; 507; 558; 1275; 1798; 2016; 2061; 2559; 3047; 3805
Hpy99I	CGWCG!	12	196; 235; 367; 442; 517; 532; 646; 844; 1345; 2348; 3142; 3405
Hpy166II	GTN!NAC	12	204; 218; 270; 507; 558; 1275; 1798; 2016; 2061; 2559; 3047; 3805
Hpy188I	TCN!GA	13	141; 905; 927; 1874; 2040; 2357; 2435; 2788; 2922; 3057; 3503; 3514; 3634
Hpy188III	TC!NNGA	22	3; 125; 162; 432; 705; 726; 915; 992; 1222; 1326; 1807; 1831; 2477; 2611; 2709; 2807; 2890; 2964; 3223; 3972; 4077; 4107
HpyAV	CCTTCNNNNNN!	7	186; 354; 630; 693; 2483; 2793; 3501
HpyAV	!NNNNNGAAGG	3	2735; 3248; 3860
HpyCH4III	ACN!GT	16	423; 504; 1041; 1119; 1152; 1249; 1290; 1393; 1640; 1862; 1897; 2207; 2278; 2748; 3061; 3576
HpyCH4IV	A!CGT	9	266; 776; 1312; 1487; 1996; 2946; 3362; 3735; 4055
HpyCH4V	TG!CA	10	270; 1882; 2061; 2559; 2855; 3190; 3280; 3473; 3561; 3805
HpyF3I	C!TNAG	13	406; 865; 902; 998; 1446; 1752; 1808; 2053; 2518; 2927; 3093; 3633; 4059
HpyF10VI	GCNNNNN!NNGC	17	33; 287; 416; 491; 549; 767; 815; 861; 979; 1003; 1566; 2067; 2117; 2182; 2296; 2868; 3256
Hsp92I	GR!CGYC	2	3673; 4055
Hsp92II	CATG!	20	135; 174; 303; 450; 543; 585; 1300; 1530; 1591; 1612; 1882; 1987; 2247; 2967; 3458; 3468; 3546; 3582; 3975; 4080

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HspAI	G!CGC	21	426; 543; 609; 698; 768; 786; 827; 1844; 1947; 1977; 2118; 2151; 2421; 2488; 2588; 2762; 2871; 3264; 3357; 3694; 4026
KasI	G!GCGCC	0	
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1221
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	0	
Kzo9I	!GATC	18	121; 127; 326; 707; 887; 2809; 2884; 2895; 2903; 2981; 2993; 3098; 3439; 3457; 3503; 3761; 3778; 3814
LguI	GCTCTTCN!	1	2127
LguI	!NNNNGAAGAGC	0	
LpnI	RGC!GCGY	3	828; 2119; 2489
LpnPI	CCDGNNNNNNNNNN!	54	169; 223; 300; 337; 397; 418; 465; 495; 535; 562; 577; 625; 664; 726; 771; 796; 837; 891; 957; 1126; 1193; 1219; 1235; 1363; 1414; 1470; 1485; 1718; 1820; 1902; 1936; 2003; 2272; 2336; 2404; 2441; 2463; 2610; 2636; 2789; 2826; 3141; 3195; 3230; 3256; 3290; 3313; 3331; 3356; 3441; 3683; 3795; 3852; 4064
LpnPI	!NNNNNNNNNNNNNCHGG	51	272; 291; 370; 457; 538; 601; 698; 900; 929; 977; 1013; 1111; 1165; 1207; 1240; 1311; 1335; 1387; 1443; 1555; 1642; 1691; 1750; 1874; 1908; 1928; 2004; 2100; 2207; 2256; 2281; 2360; 2390; 2435; 2533; 2582; 2608; 2632; 2652; 2798; 2816; 3161; 3202; 3236; 3303; 3365; 3413; 3593; 3655; 3833; 3943
Lsp1109I	GCAGCNNNNNNNN!	7	248; 704; 1894; 1991; 2662; 2871; 3565
Lsp1109I	!NNNNNNNNNNNGCTGC	7	281; 1823; 2135; 2153; 2572; 3111; 3174
LweI	GCATCNNNNN!	11	377; 419; 506; 827; 1068; 1741; 2044; 2120; 2340; 3392; 3832
LweI	!NNNNNNNNNGATGC	4	1553; 1909; 2080; 3583
MabI	A!CCWGGT	0	
MaeI	C!TAG	6	974; 1722; 1831; 2738; 2991; 3326
MaeII	A!CGT	9	266; 776; 1312; 1487; 1996; 2946; 3362; 3735; 4055
MaeIII	!GTNAC	13	726; 1282; 1387; 1897; 1992; 2599; 2662; 2778; 3061; 3392; 3450; 3603; 3791
MaiI	GA!TC	18	123; 129; 328; 709; 889; 2811; 2886; 2897; 2905; 2983; 2995; 3100; 3441; 3459; 3505; 3763; 3780; 3816
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	1	1828
MbiI	GAG!CGG	4	36; 68; 2176; 3977
MboI	!GATC	18	121; 127; 326; 707; 887; 2809; 2884; 2895; 2903; 2981; 2993; 3098; 3439; 3457; 3503; 3761; 3778; 3814
MboII	GAAGANNNNNNNN!	1	2905
MboII	!NNNNNNNTCTTC	9	177; 339; 1500; 2114; 2976; 3731; 3809; 3918; 4114
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	59
MfII	R!GATCY	9	127; 707; 887; 2884; 2895; 2981; 2993; 3761; 3778
MhII	GDGCH!C	8	272; 344; 815; 1696; 2063; 2561; 3722; 3807
MisI	TGG!CCA	1	1492
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	1492
MlyI	GAGTCNNNNN!	1	2623
MlyI	!NNNNNGACTC	4	868; 1710; 2137; 3125
Mly113I	GG!CGCC	0	
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	2458; 2642
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	0	
MnII	CCTCNNNNNNN!	8	10; 911; 1850; 1880; 2142; 2425; 3303; 3509
MnII	!NNNNNGAGG	15	93; 112; 135; 192; 393; 743; 783; 837; 1071; 1722; 2351; 2675; 3075; 3156; 4103
Mph1103I	ATGCA!T	0	
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1221
MroNI	G!CCGGC	0	
MroXI	GAANN!NNTTC	1	3735
MscI	TGG!CCA	1	1492

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MseI	T!TAA	18	95; 109; 857; 1144; 1483; 1625; 1677; 1698; 2024; 2949; 3001; 3006; 3020; 3073; 3308; 3347; 3712; 4084
MslI	CAYNN!NNRTG	6	223; 484; 502; 3388; 3547; 3906
MspI	C!CGG	17	287; 713; 944; 1180; 1222; 1350; 1889; 1923; 2450; 2597; 2623; 2813; 3217; 3251; 3318; 3428; 3670
Msp20I	TGG!CCA	1	1492
MspA1I	CMG!CKG	8	552; 615; 1125; 1569; 1955; 2585; 2830; 3771
MspCI	C!TTAAG	0	
MspJI	CNNRNNNNNNNN!	203	13; 49; 81; 94; 137; 152; 168; 183; 210; 223; 237; 255; 279; 294; 310; 325; 342; 365; 395; 409; 430; 444; 459; 472; 494; 508; 534; 547; 561; 576; 590; 604; 618; 653; 687; 709; 724; 738; 752; 770; 787; 801; 815; 829; 855; 868; 882; 903; 916; 938; 956; 981; 995; 1010; 1040; 1064; 1109; 1125; 1138; 1164; 1180; 1204; 1218; 1234; 1267; 1292; 1309; 1338; 1351; 1375; 1397; 1413; 1426; 1458; 1484; 1500; 1528; 1545; 1558; 1573; 1591; 1621; 1636; 1669; 1709; 1734; 1748; 1764; 1777; 1819; 1843; 1857; 1885; 1900; 1917; 1935; 1950; 1968; 1985; 2001; 2020; 2035; 2051; 2065; 2096; 2122; 2145; 2166; 2185; 2198; 2226; 2244; 2264; 2282; 2301; 2320; 2335; 2349; 2363; 2377; 2403; 2416; 2430; 2446; 2462; 2489; 2507; 2530; 2555; 2572; 2590; 2604; 2623; 2644; 2659; 2672; 2688; 2714; 2734; 2750; 2782; 2799; 2819; 2833; 2868; 2882; 2900; 2927; 2949; 2976; 3002; 3042; 3062; 3078; 3100; 3132; 3148; 3172; 3188; 3212; 3225; 3255; 3272; 3289; 3312; 3330; 3355; 3370; 3392; 3407; 3440; 3455; 3475; 3514; 3540; 3553; 3574; 3591; 3620; 3635; 3667; 3681; 3694; 3710; 3733; 3755; 3768; 3794; 3808; 3821; 3851; 3869; 3883; 3914; 3931; 3970; 3984; 4024; 4037; 4050; 4063; 4089; 4114
MspJI	!NNNNNNNNNNNNYNG	175	10; 49; 100; 118; 137; 157; 184; 211; 229; 253; 273; 292; 310; 335; 357; 383; 409; 433; 452; 470; 490; 508; 526; 550; 568; 592; 612; 637; 661; 683; 710; 727; 744; 761; 785; 810; 829; 847; 864; 889; 906; 930; 948; 965; 985; 1014; 1061; 1099; 1120; 1150; 1184; 1207; 1237; 1266; 1283; 1311; 1335; 1357; 1376; 1414; 1433; 1458; 1483; 1502; 1528; 1556; 1574; 1595; 1631; 1648; 1675; 1692; 1712; 1739; 1759; 1779; 1799; 1817; 1836; 1858; 1875; 1895; 1920; 1938; 1958; 1976; 2005; 2024; 2053; 2078; 2100; 2119; 2136; 2154; 2190; 2207; 2230; 2256; 2275; 2296; 2314; 2337; 2356; 2377; 2402; 2419; 2436; 2461; 2490; 2509; 2530; 2555; 2573; 2597; 2618; 2646; 2667; 2695; 2714; 2738; 2762; 2784; 2817; 2834; 2854; 2876; 2899; 2931; 2950; 2977; 3026; 3063; 3080; 3114; 3139; 3161; 3186; 3203; 3229; 3247; 3275; 3304; 3325; 3342; 3366; 3385; 3408; 3429; 3451; 3471; 3498; 3529; 3565; 3587; 3610; 3631; 3651; 3668; 3714; 3744; 3762; 3786; 3806; 3825; 3849; 3879; 3943; 3960; 3985; 4002; 4023; 4046; 4063; 4084; 4104
MspR9I	CC!NGG	14	385; 713; 945; 1402; 1458; 1706; 1889; 1924; 2271; 2392; 2405; 2623; 3319; 3670
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	59
MvaI	CC!WGG	7	385; 1402; 1458; 1706; 2271; 2392; 2405
Mva1269I	GAATGCN!	2	1218; 1625
Mva1269I	G!CATTC	0	
MvnI	CG!CG	12	545; 698; 770; 788; 1844; 1846; 1949; 2290; 2871; 3201; 3694; 4026
MvrI	CGAT!CG	1	3506
MwoI	GCNNNNN!NNGC	17	33; 287; 416; 491; 549; 767; 815; 861; 979; 1003; 1566; 2067; 2117; 2182; 2296; 2868; 3256
NaeI	GCC!GGC	0	
NarI	GG!CGCC	0	
NciI	CC!SGG	7	713; 945; 1889; 1924; 2623; 3319; 3670
NcoI	C!CATGG	2	131; 1526
NdeI	CA!TATG	1	2066
NdeII	!GATC	18	121; 127; 326; 707; 887; 2809; 2884; 2895; 2903; 2981; 2993; 3098; 3439; 3457; 3503; 3761; 3778; 3814
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	2	3382; 3607
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	2	3418; 3643
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	0	
NheI	G!CTAGC	1	973

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NlaIII	CATG!	20	135; 174; 303; 450; 543; 585; 1300; 1530; 1591; 1612; 1882; 1987; 2247; 2967; 3458; 3468; 3546; 3582; 3975; 4080
NlaIV	GGN!NCC	13	129; 150; 444; 534; 597; 1693; 2275; 2314; 3086; 3180; 3221; 3432; 4022
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	522; 759; 843; 2356
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	1580; 1836
Nli3877I	CYCGR!G	2	5; 401
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	1	3285
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	0	
NmeDI	RCCGGYNNNNNNN!	2	298; 3228
NmeDI	!NNNNNNNNNNNNRCCGGY	2	273; 3203
NmuCI	!GTSAC	5	726; 1897; 1992; 3392; 3603
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3358
NsiI	ATGCA!T	0	
NspI	RCATG!Y	3	585; 1882; 2247
NspV	TT!CGAA	0	
OliI	CACNN!NNGTG	2	223; 484
PabI	GTA!C	5	335; 1105; 1643; 2052; 3617
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	0	
PaeR7I	C!TCGAG	1	1
PagI	T!CATGA	3	2963; 3971; 4076
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	1	1457
PauI	G!CGCGC	0	
PceI	AGG!CCT	0	
PciI	A!CATGT	2	581; 2243
PciSI	GCTTTCN!	1	2127
PciSI	!NNNNGAAGAGC	0	
PcsI	WCGNNNN!NNNCGW	8	272; 419; 473; 806; 839; 2169; 2567; 3444
PctI	GAATGCN!	2	1218; 1625
PctI	G!CATTC	0	
PdiI	GCC!GGC	0	
PdmI	GAANN!NNTTC	1	3735
PfeI	G!AWTC	4	55; 965; 1575; 2218
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	1990
PfIMI	CCANNNN!NTGG	3	305; 555; 1457
PfoI	T!CCNGGA	1	1887
PhoI	GG!CC	24	149; 209; 229; 404; 533; 596; 619; 650; 662; 716; 796; 1138; 1183; 1405; 1492; 1769; 2258; 2269; 2287; 2721; 3179; 3259; 3526; 4113
PinAI	A!CCGGT	0	
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	3	395; 2062; 2138
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	3	632; 1187; 1541
PleI	GAGTCNNNN!	1	2622
PleI	!NNNNNGACTC	4	868; 1710; 2137; 3125
Ple19I	CGAT!CG	1	3506
PmaCI	CAC!GTG	1	777
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	1	777
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	2958
PpiI	!NNNNNNNGAGNNNNNGTTC	1	3768
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3800
PpiI	!NNNNNNNGAACNNNNNCTC	1	2926
PpsI	GAGTCNNNN!	1	2622
PpsI	!NNNNNGACTC	4	868; 1710; 2137; 3125
Ppu10I	A!TGCAT	0	
Ppu21I	YAC!GTR	2	777; 1997
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	2	581; 2243
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	3308

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PsiI	TTA!TAA	1	49
Psp03I	GGWC!C	2	3277; 3499
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	7	383; 1400; 1456; 1704; 2269; 2390; 2403
Psp1406I	AA!CGTT	3	1312; 3362; 3735
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	1	777
PspEI	G!GTNACC	0	
PspGI	!CCWGG	7	383; 1400; 1456; 1704; 2269; 2390; 2403
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	13	129; 150; 444; 534; 597; 1693; 2275; 2314; 3086; 3180; 3221; 3432; 4022
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	1	407
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	0	
PspPI	G!GNCC	12	148; 402; 532; 595; 660; 715; 1767; 3178; 3257; 3274; 3496; 4112
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNNNN!	2	921; 3200
PspPRI	!NNNNNNNNNNNNNNNNNNCTGRGG	1	1692
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	405; 4115
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	1	2659
PsuI	R!GATCY	9	127; 707; 887; 2884; 2895; 2981; 2993; 3761; 3778
Psyl	GACN!NNGTC	1	1990
PteI	G!CGCGC	0	
PvuI	CGAT!CG	1	3506
PvuII	CAG!CTG	3	552; 615; 1125
RcaI	T!CATGA	3	2963; 3971; 4076
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	2	215; 437
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	3	595; 734; 820
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	5	334; 1104; 1642; 2051; 3616
RsaNI	G!TAC	5	333; 1103; 1641; 2050; 3615
RseI	CAYNN!NNRTG	6	223; 484; 502; 3388; 3547; 3906
RsrII	CG!GWCCG	0	
Rsr2I	CG!GWCCG	0	
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTCN!	1	2127
SapI	!NNNNGAAGAGC	0	
SaqAI	T!TAA	18	95; 109; 857; 1144; 1483; 1625; 1677; 1698; 2024; 2949; 3001; 3006; 3020; 3073; 3308; 3347; 3712; 4084
SatI	GC!NGC	29	147; 237; 240; 295; 495; 648; 693; 696; 941; 1567; 1826; 1837; 1883; 1980; 2033; 2149; 2170; 2288; 2443; 2586; 2651; 2654; 2860; 3125; 3188; 3527; 3554; 3649; 3878
Sau96I	G!GNCC	12	148; 402; 532; 595; 660; 715; 1767; 3178; 3257; 3274; 3496; 4112
Sau3AI	!GATC	18	121; 127; 326; 707; 887; 2809; 2884; 2895; 2903; 2981; 2993; 3098; 3439; 3457; 3503; 3761; 3778; 3814
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	2	1642; 3616

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SchI	GAGTCNNNNN!	1	2623
SchI	!NNNNNGACTC	4	868; 1710; 2137; 3125
SciI	CTC!GAG	1	3
ScrFI	CC!NGG	14	385; 713; 945; 1402; 1458; 1706; 1889; 1924; 2271; 2392; 2405; 2623; 3319; 3670
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	237; 411; 1018; 3293; 3539
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	856; 1785; 2406
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	1	3383
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	1	3417
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	8	272; 344; 815; 1696; 2063; 2561; 3722; 3807
SelI	!CGCG	12	543; 696; 768; 786; 1842; 1844; 1947; 2288; 2869; 3199; 3692; 4024
SetI	ASST!	59	2; 178; 203; 269; 296; 307; 326; 466; 473; 484; 554; 617; 685; 779; 794; 857; 866; 871; 903; 975; 979; 999; 1008; 1108; 1127; 1256; 1315; 1403; 1490; 1559; 1583; 1727; 1838; 1872; 1887; 1906; 1999; 2187; 2362; 2413; 2459; 2515; 2534; 2549; 2686; 2785; 2806; 2949; 2992; 3090; 3126; 3327; 3365; 3427; 3490; 3738; 4053; 4058; 4090
SexAI	A!CCWGGT	0	
SfaI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	11	377; 419; 506; 827; 1068; 1741; 2044; 2120; 2340; 3392; 3832
SfaNI	!NNNNNNNNNGATGC	4	1553; 1909; 2080; 3583
Sfcl	C!TRYAG	3	2508; 2699; 3377
SfiI	GGCCNNNN!NGGCC	0	
SfoI	GGC!GCC	0	
Sfr274I	C!TCGAG	1	1
Sfr303I	CCGC!GG	0	
Sful	TT!CGAA	0	
SgeI	CNNGNNNNNNNNN!	157	13; 137; 163; 183; 210; 237; 255; 279; 294; 312; 336; 351; 365; 396; 409; 435; 459; 480; 494; 516; 534; 552; 565; 585; 604; 618; 663; 687; 709; 724; 738; 753; 770; 787; 801; 822; 836; 855; 882; 903; 927; 945; 982; 995; 1040; 1125; 1138; 1182; 1210; 1234; 1267; 1292; 1309; 1338; 1351; 1387; 1413; 1469; 1484; 1500; 1528; 1558; 1582; 1600; 1621; 1669; 1717; 1734; 1777; 1819; 1843; 1857; 1891; 1917; 1935; 1950; 1968; 1985; 2002; 2031; 2127; 2145; 2166; 2185; 2234; 2256; 2271; 2301; 2335; 2363; 2382; 2403; 2416; 2430; 2451; 2469; 2489; 2516; 2556; 2572; 2590; 2609; 2623; 2644; 2659; 2672; 2693; 2721; 2750; 2788; 2819; 2843; 2868; 2882; 2902; 2927; 2957; 2976; 3003; 3062; 3140; 3153; 3172; 3188; 3212; 3229; 3255; 3273; 3289; 3312; 3330; 3355; 3392; 3407; 3440; 3455; 3477; 3555; 3591; 3620; 3636; 3668; 3681; 3694; 3755; 3770; 3794; 3812; 3851; 3875; 3914; 3970; 3984; 4037; 4063; 4089; 4119
SgeI	!NNNNNNNNNNNNNCNNG	136	111; 137; 157; 184; 211; 229; 253; 273; 292; 310; 339; 370; 391; 409; 433; 454; 472; 490; 508; 526; 550; 568; 592; 637; 661; 683; 712; 744; 761; 796; 829; 856; 877; 901; 919; 956; 978; 1014; 1099; 1156; 1184; 1208; 1241; 1266; 1283; 1312; 1336; 1361; 1387; 1443; 1474; 1502; 1532; 1556; 1574; 1595; 1643; 1691; 1708; 1751; 1793; 1817; 1865; 1891; 1909; 1929; 1952; 1970; 2005; 2101; 2119; 2140; 2159; 2208; 2230; 2256; 2275; 2309; 2337; 2356; 2377; 2402; 2425; 2443; 2463; 2490; 2530; 2555; 2583; 2608; 2633; 2653; 2695; 2724; 2762; 2793; 2817; 2842; 2876; 2901; 2931; 2950; 2977; 3036; 3114; 3146; 3168; 3186; 3203; 3229; 3247; 3286; 3304; 3329; 3366; 3385; 3414; 3434; 3451; 3529; 3565; 3594; 3642; 3668; 3729; 3768; 3786; 3825; 3849; 3888; 3944; 4011; 4037; 4063; 4093; 4115
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	1	2918
SimI	!GACCC	4	575; 1986; 2435; 3204
SinI	G!GWCC	2	3274; 3496
SlaI	C!TCGAG	1	1
SmaI	CCC!GGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Tsp45I	!GTSAC	5	726; 1897; 1992; 3392; 3603
Tsp509I	!AATT	13	17; 44; 59; 76; 88; 106; 858; 1225; 1630; 1669; 3003; 3309; 3564
TspDTI	ATGAANNNNNNNNNNN!	4	1225; 1255; 1643; 3027
TspDTI	!NNNNNNNNNTTCAT	6	177; 612; 1307; 1573; 3104; 3407
TspEI	!AATT	13	17; 44; 59; 76; 88; 106; 858; 1225; 1630; 1669; 3003; 3309; 3564
TspGWI	ACGGANNNNNNNNNNN!	1	3918
TspGWI	!NNNNNNNNNTCCGT	1	3576
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	9	1032; 2145; 2651; 2664; 2935; 3084; 3189; 3536; 3563
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	1990
Tth111II	CAARCANNNNNNNNNN!	3	757; 2833; 2872
Tth111III	!NNNNNNNNNTGYTTG	2	1777; 2840
UnbI	!GGNCC	12	147; 401; 531; 594; 659; 714; 1766; 3177; 3256; 3273; 3495; 4111
Van9II	CCANNNN!NTGG	3	305; 555; 1457
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	4	268; 2059; 2557; 3803
VpaK11AI	!GGWCC	2	3273; 3495
VpaK11BI	G!GWCC	2	3274; 3496
VspI	AT!TAAT	1	3308
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	2	17; 1225
XbaI	T!CTAGA	1	1830
XceI	RCATG!Y	3	585; 1882; 2247
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	1
XhoII	R!GATCY	9	127; 707; 887; 2884; 2895; 2981; 2993; 3761; 3778
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	0	
XmiI	GT!MKAC	1	2015
XmnI	GAANN!NNTTC	1	3735
XspI	C!TAG	6	974; 1722; 1831; 2738; 2991; 3326
ZraI	GAC!GTC	1	4056
ZrmI	AGT!ACT	2	1642; 3616
Zsp2I	ATGCA!T	0	