

pKFP-Red-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	659
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	2	1916; 2329
AatI	AGG!CCT	0	
AatII	GACGT!C	1	4036
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1993
AccII	CG!CG	9	596; 1822; 1824; 1927; 2268; 2849; 3179; 3672; 4004
AccIII	T!CCGGA	1	1199
Acc16I	TGC!GCA	1	3336
Acc36I	ACCTGCNNNN!	1	652
Acc36I	!NNNNNNNNGCAGGT	0	
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	5	181; 241; 635; 1669; 3062
AccB7I	CCANNNN!NTGG	1	1435
AccBSI	CCG!CTC	2	668; 1806
AccBSI	GAG!CGG	4	36; 68; 2154; 3955
AceIII	CAGCTCNNNNNNN!	3	1873; 2173; 3413
AceIII	!NNNNNNNNNNGAGCTG	2	1218; 1800
Acil	C!CGC	31	440; 512; 546; 666; 680; 686; 723; 779; 789; 803; 919; 1181; 1545; 1801; 1804; 2061; 2087; 2104; 2266; 2294; 2421; 2440; 2561; 2806; 3177; 3268; 3505; 3670; 3747; 3856; 4002
Acil	G!CGG	21	36; 68; 275; 428; 596; 629; 1639; 1894; 1933; 1943; 1985; 2010; 2048; 2147; 2154; 2175; 2671; 2815; 3459; 3626; 3955
AclI	AA!CGTT	3	1290; 3340; 3713
AclWI	GGATCNNNN!	4	129; 2870; 2967; 3747
AclWI	!NNNNNGATCC	8	122; 486; 860; 2782; 2868; 2966; 3430; 3751
AcoI	Y!GGCCR	6	192; 543; 597; 630; 1468; 3502
AcsI	R!AATTY	2	17; 1203
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	4	637; 712; 849; 2769
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	3781
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	3	800; 3651; 4033
AdeI	CACNNN!GTG	0	
AfaI	GT!AC	9	322; 346; 481; 574; 772; 1082; 1620; 2029; 3594
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	10	237; 517; 632; 714; 1435; 1872; 2243; 2261; 2427; 2706
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	2	347; 2221
AgeI	A!CCGGT	0	
AgsI	TTS!AA	9	59; 165; 204; 372; 2690; 3892; 3915; 3925; 3969
AhdI	GACNNN!NNGTC	1	3114
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	12	245; 397; 446; 458; 473; 494; 1378; 1434; 1682; 2247; 2368; 2381
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	0	
AlfI	GCANNNNNTGCNNNNNNNNNNNN!	0	
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	0	
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	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	22	816; 833; 842; 847; 951; 955; 975; 984; 1103; 1232; 1703; 1814; 1863; 1882; 2163; 2389; 2525; 2782; 3102; 3303; 3403; 3466
AluBI	AG!CT	22	816; 833; 842; 847; 951; 955; 975; 984; 1103; 1232; 1703; 1814; 1863; 1882; 2163; 2389; 2525; 2782; 3102; 3303; 3403; 3466
AlwI	GGATCNNNN!	4	129; 2870; 2967; 3747
AlwI	!NNNNNGATCC	8	122; 486; 860; 2782; 2868; 2966; 3430; 3751
Alw21I	GWGCW!C	4	2041; 2539; 3700; 3785
Alw26I	GTCTCN!	2	1427; 3951
Alw26I	!NNNNNGAGAC	3	145; 1864; 3175
Alw44I	G!TGCAC	3	2037; 2535; 3781
AlwNI	CAGNNN!CTG	2	606; 2637
Ama87I	C!YCGRG	2	1; 385
Aor13HI	T!CCGGA	1	1199
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	1	2046
ApaLI	G!TGCAC	3	2037; 2535; 3781
ApeKI	G!CWGC	13	591; 1814; 1860; 1957; 2126; 2144; 2563; 2628; 2631; 2837; 3102; 3165; 3531
ApoI	R!AATTY	2	17; 1203
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	2345
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	0	
AquI	GCCGNACNNNNNNNNNNNNNNNNNN!	0	
AquI	!NNNNNNNNNNNNNNNNNNNGTNCGGC	2	302; 332
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	2	125; 764
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	3	363; 489; 2089
ArsI	GACNNNNNTTYGNNNNNNNNNN!	1	1502
ArsI	!NNNNNCCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNGTCCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	1	1470
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	3286
Asi256I	G!ATC	21	122; 128; 258; 267; 492; 567; 732; 866; 2788; 2863; 2874; 2882; 2960; 2972; 3077; 3418; 3436; 3482; 3740; 3757; 3793
AsiGI	A!CCGGT	0	
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	1968
Asp700I	GAANN!NNTTC	1	3713
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	0	
AspEI	GACNNN!NNGTC	1	3114
AspLEI	GCG!C	16	407; 596; 1824; 1927; 1957; 2098; 2131; 2401; 2468; 2568; 2742; 2851; 3244; 3337; 3674; 4006
AspS9I	G!GNCC	12	277; 520; 612; 717; 786; 819; 1745; 3156; 3235; 3252; 3474; 4090
AssI	AGT!ACT	2	1620; 3594
AsuII	TT!CGAA	0	
AsuC2I	CC!SGG	9	557; 626; 701; 923; 1867; 1902; 2601; 3297; 3648
AsuHPI	GGTGANNNNNNNN!	10	276; 498; 950; 1239; 1383; 1451; 1785; 1843; 3600; 3841
AsuHPI	!NNNNNNNTCACC	8	387; 1245; 1439; 1493; 2957; 3184; 3806; 4095
AsuNHI	G!CTAGC	1	951
AvaI	C!YCGRG	2	1; 385
AvaII	G!GWCC	3	717; 3252; 3474
AviII	TGC!GCA	1	3336
AvrII	C!CTAGG	0	
AxyI	CC!TNAGG	0	
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	

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BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI!C	7	184; 244; 625; 1674; 2041; 2539; 3785
BalI	TGG!CCA	1	1470
BamHI	G!GATCC	1	127
BanI	G!GYRCC	5	181; 241; 635; 1669; 3062
BanII	GRGCY!C	1	557
BanIII	AT!CGAT	0	
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	1435
BauI	C!ACGAG	1	4085
BauI	C!TCGTG	2	2394; 3778
BbeI	GGCGC!C	0	
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	1	4087
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNNGTCTTC	1	4092
BbuI	GCATG!C	0	
BbvI	GCAGCNNNNNNNN!	5	1872; 1969; 2640; 2849; 3543
BbvI	!NNNNNNNNNNNGCTGC	7	578; 1801; 2113; 2131; 2550; 3089; 3152
Bbv12I	GWGCW!C	4	2041; 2539; 3700; 3785
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	181; 897; 3158; 3282; 3569
BccI	!NNNNNGATGG	2	603; 1572
BceAI	ACGGCNNNNNNNNNN!	8	207; 339; 441; 480; 534; 600; 1129; 2723
BceAI	!NNNNNNNNNNNNNGCCGT	2	766; 1554
Bcefl	ACGGCNNNNNNNNNN!	8	207; 339; 441; 480; 534; 600; 1129; 2723
Bcefl	!NNNNNNNNNNNNNGCCGT	2	767; 1555
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	3653
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	1	216
BcgI	GCANNNNNNTCGNNNNNNNNNN!	1	250
BcgI	!NNNNNNNNNNCGANNNNNNNTGC	1	3619
BciVI	GTATCCNNNNNN!	0	
BciVI	!NNNNNGGATAC	2	2424; 3951
BclI	T!GATCA	0	
BcnI	CC!SGG	9	557; 626; 701; 923; 1867; 1902; 2601; 3297; 3648
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	2	1078; 2326
BdaI	!NNNNNNNNNNTGANNNNNNNTCA	2	1044; 2292
BfaI	C!TAG	6	952; 1700; 1809; 2716; 2969; 3304
BfiI	ACTGGGNNNNN!	1	1752
BfiI	!NNNNCCCAGT	2	1962; 3154
BfmI	C!TRYAG	3	2486; 2677; 3355
BfoI	RGCGC!Y	2	2099; 2469
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	0	
BfuI	!NNNNNGGATAC	2	2424; 3951
BfuAI	ACCTGCNNNN!	1	652
BfuAI	!NNNNNNNNNGCAGGT	0	
BfuCI	!GATC	21	121; 127; 257; 266; 491; 566; 731; 865; 2787; 2862; 2873; 2881; 2959; 2971; 3076; 3417; 3435; 3481; 3739; 3756; 3792
BglI	GCCNNNN!NGGC	2	629; 3234
BglII	A!GATCT	0	
BisI	GC!NGC	30	276; 429; 546; 592; 597; 630; 779; 789; 803; 919; 1545; 1804; 1815; 1861; 1958; 2011; 2127; 2148; 2266; 2421; 2564; 2629; 2632; 2838; 3103; 3166; 3505; 3532; 3627; 3856
BlnI	C!CTAGG	0	
BlpI	GC!TNAGC	1	843
BlsI	GCN!GC	30	277; 430; 547; 593; 598; 631; 780; 790; 804; 920; 1546; 1805; 1816; 1862; 1959; 2012; 2128; 2149; 2267; 2422; 2565; 2630; 2633; 2839; 3104; 3167; 3506; 3533; 3628; 3857

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BmcAI	AGT!ACT	2	1620; 3594
Bme18I	G!GWCC	3	717; 3252; 3474
Bme1390I	CC!NGG	21	247; 399; 448; 460; 475; 496; 557; 626; 701; 923; 1380; 1436; 1684; 1867; 1902; 2249; 2370; 2383; 2601; 3297; 3648
BmeRI	GACNNN!NNGTC	1	3114
BmeT110I	C!YCGRG	2	1; 385
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	12	278; 521; 613; 718; 787; 820; 1746; 3157; 3236; 3253; 3475; 4091
BmiI	GGN!NCC	17	129; 183; 243; 279; 327; 522; 554; 561; 637; 1671; 2253; 2292; 3064; 3158; 3199; 3410; 4000
BmrI	ACTGGGNNNNN!	1	1752
BmrI	!NNNNCCCAGT	2	1962; 3154
BmrFI	CC!NGG	21	247; 399; 448; 460; 475; 496; 557; 626; 701; 923; 1380; 1436; 1684; 1867; 1902; 2249; 2370; 2383; 2601; 3297; 3648
BmsI	GCATCNNNNN!	10	218; 365; 734; 1046; 1719; 2022; 2098; 2318; 3370; 3810
BmsI	!NNNNNNNNNGATGC	6	518; 686; 1531; 1887; 2058; 3561
BmtI	GCTAG!C	1	955
BmuI	ACTGGGNNNNN!	1	1752
BmuI	!NNNNCCCAGT	2	1962; 3154
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	1	4092
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	0	
BpI	!NNNNNNNNNGAGNNNNNNCTC	0	
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	1325
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	1	3184
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	1	976
Bpu14I	TT!CGAA	0	
Bpu1102I	GC!TNAGC	1	843
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	1	4092
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	1725; 2610
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	3	2312; 2851; 3719
BpuMI	CC!SGG	9	557; 626; 701; 923; 1867; 1902; 2601; 3297; 3648
BpvUI	CGAT!CG	1	3484
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	145; 3175
Bsa29I	AT!CGAT	0	
BsaAI	YAC!GTR	2	348; 1975
BsaBI	GATNN!NNATC	2	126; 256
BsaHI	GR!CGYC	3	800; 3651; 4033
BsaJI	C!CNNGG	12	131; 245; 386; 398; 458; 495; 624; 782; 1435; 1504; 1683; 2381
BsaMI	GAATGCN!	2	1196; 1603
BsaMI	G!CATTC	0	
BsaWI	W!CCGGW	4	1199; 2427; 2574; 3405
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	0	
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNNCTCC	0	
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTG	1	1917
Bsc4I	CCNNNNN!NNGG	10	237; 517; 632; 714; 1435; 1872; 2243; 2261; 2427; 2706
BscAI	GCATCNNNN!	10	217; 364; 733; 1045; 1718; 2021; 2097; 2317; 3369; 3809
BscAI	!NNNNNNGATGC	6	521; 689; 1534; 1890; 2061; 3564
BseI	ACTGGN!	6	1010; 1747; 2001; 2629; 2642; 3590
BseI	C!CAGT	9	600; 869; 1450; 1968; 2754; 3160; 3278; 3321; 3760
Bse8I	GATNN!NNATC	2	126; 256
Bse21I	CC!TNAGG	0	
Bse118I	R!CCGGY	2	632; 3194
BseAI	T!CCGGA	1	1199

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BseBI	CC!WGG	12	247; 399; 448; 460; 475; 496; 1380; 1436; 1684; 2249; 2370; 2383
BseCI	AT!CGAT	0	
BseDI	C!CNNGG	12	131; 245; 386; 398; 458; 495; 624; 782; 1435; 1504; 1683; 2381
Bse3DI	GCAATGNN!	2	1222; 3175
Bse3DI	!CATTGC	1	3349
BseGI	GGATGNN!	1	1902
BseGI	!CATCC	6	299; 356; 1196; 3093; 3274; 3561
BseJI	GATNN!NNATC	2	126; 256
BseLI	CCNNNNN!NNGG	10	237; 517; 632; 714; 1435; 1872; 2243; 2261; 2427; 2706
BseMI	GCAATGNN!	2	1222; 3175
BseMI	!CATTGC	1	3349
BseMII	CTCAGNNNNNNNNNN!	6	894; 1438; 1744; 2510; 2919; 3085
BseMII	!NNNNNNNNCTGAG	4	834; 1777; 2022; 3602
BseNI	ACTGGN!	6	1010; 1747; 2001; 2629; 2642; 3590
BseNI	C!CAGT	9	600; 869; 1450; 1968; 2754; 3160; 3278; 3321; 3760
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	2	115; 754
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	7	184; 244; 625; 1674; 2041; 2539; 3785
BseXI	GCAGCNNNNNNNN!	5	1872; 1969; 2640; 2849; 3543
BseXI	!NNNNNNNNNNNGCTGC	7	578; 1801; 2113; 2131; 2550; 3089; 3152
BseX3I	C!GGCCG	2	543; 630
BseYI	C!CCAGC	0	
BseYI	G!CTGGG	3	548; 816; 2525
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	637
Bsh1236I	CG!CG	9	596; 1822; 1824; 1927; 2268; 2849; 3179; 3672; 4004
Bsh1285I	CGRY!CG	5	546; 633; 2561; 3484; 3633
BshFI	GG!CC	24	136; 194; 278; 521; 545; 599; 613; 632; 778; 788; 821; 1116; 1161; 1383; 1470; 1747; 2236; 2247; 2265; 2699; 3157; 3237; 3504; 4091
BshNI	G!GYRCC	5	181; 241; 635; 1669; 3062
BshTI	A!CCGGT	0	
BshVI	AT!CGAT	0	
BsiEI	CGRY!CG	5	546; 633; 2561; 3484; 3633
BsiHKAI	GWGCW!C	4	2041; 2539; 3700; 3785
BsiHKCI	C!YCGRG	2	1; 385
BsiSI	C!CGG	20	353; 557; 626; 633; 701; 922; 1158; 1200; 1328; 1867; 1901; 2428; 2575; 2601; 2791; 3195; 3229; 3296; 3406; 3648
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	10	237; 517; 632; 714; 1435; 1872; 2243; 2261; 2427; 2706
BsIFI	GGGACNNNNNNNNNN!	0	
BsIFI	!NNNNNNNNNNNNNGTCCC	1	588
BsmI	GAATGCN!	2	1196; 1603
BsmI	G!CATTC	0	
BsmAI	GTCTCN!	2	1427; 3951
BsmAI	!NNNNNGAGAC	3	145; 1864; 3175
BsmBI	CGTCTCN!	1	1427
BsmBI	!NNNNNGAGACG	1	1864
BsmFI	GGGACNNNNNNNNNN!	0	
BsmFI	!NNNNNNNNNNNNNGTCCC	1	588
BsnI	GG!CC	24	136; 194; 278; 521; 545; 599; 613; 632; 778; 788; 821; 1116; 1161; 1383; 1470; 1747; 2236; 2247; 2265; 2699; 3157; 3237; 3504; 4091
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	145; 3175
BsoBI	C!YCGRG	2	1; 385
Bsp13I	T!CCGGA	1	1199
Bsp19I	C!CATGG	2	131; 1504
Bsp24I	GACNNNNNNNTGGNNNNNNNNNN!	2	2746; 2924
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	289; 4018
Bsp24I	CCANNNNNNGTCNNNNNNNNNNNN!	2	321; 4050
Bsp24I	!NNNNNNNGACNNNNNNNTGG	2	2714; 2892
Bsp68I	TCG!CGA	0	

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Bsp119I	TT!CGAA	0	
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	21	121; 127; 257; 266; 491; 566; 731; 865; 2787; 2862; 2873; 2881; 2959; 2971; 3076; 3417; 3435; 3481; 3739; 3756; 3792
Bsp1286I	GDGCH!C	9	184; 244; 557; 625; 1674; 2041; 2539; 3700; 3785
Bsp1407I	T!GTACA	1	479
Bsp1720I	GC!TNAGC	1	843
BspACI	C!CGC	31	440; 512; 546; 666; 680; 686; 723; 779; 789; 803; 919; 1181; 1545; 1801; 1804; 2061; 2087; 2104; 2266; 2294; 2421; 2440; 2561; 2806; 3177; 3268; 3505; 3670; 3747; 3856; 4002
BspACI	G!CGG	21	36; 68; 275; 428; 596; 629; 1639; 1894; 1933; 1943; 1985; 2010; 2048; 2147; 2154; 2175; 2671; 2815; 3459; 3626; 3955
BspCNI	CTCAGNNNNNNNN!	6	893; 1437; 1743; 2509; 2918; 3084
BspCNI	!NNNNNNNCTGAG	4	835; 1778; 2023; 3603
BspDI	AT!CGAT	0	
BspD6I	GACTCNNNN!	4	860; 1702; 2129; 3117
BspD6I	!NNNNNNGAGTC	1	2585
BspEI	T!CCGGA	1	1199
BspFNI	CG!CG	9	596; 1822; 1824; 1927; 2268; 2849; 3179; 3672; 4004
BspHI	T!CATGA	3	2941; 3949; 4054
BspLI	GGN!NCC	17	129; 183; 243; 279; 327; 522; 554; 561; 637; 1671; 2253; 2292; 3064; 3158; 3199; 3410; 4000
BspMI	ACCTGCNNNN!	1	652
BspMI	!NNNNNNNNGCAGGT	0	
BspOI	GCTAG!C	1	955
BspPI	GGATCNNNN!	4	129; 2870; 2967; 3747
BspPI	!NNNNNGATCC	8	122; 486; 860; 2782; 2868; 2966; 3430; 3751
BspQI	GCTCTCN!	1	2105
BspQI	!NNNNGAAGAGC	0	
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	0	
BspT107I	G!GYRCC	5	181; 241; 635; 1669; 3062
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	145; 3175
BsrI	ACTGGN!	6	1010; 1747; 2001; 2629; 2642; 3590
BsrI	C!CAGT	9	600; 869; 1450; 1968; 2754; 3160; 3278; 3321; 3760
BsrBI	CCG!CTC	2	668; 1806
BsrBI	GAG!CGG	4	36; 68; 2154; 3955
BsrDI	GCAATGNN!	2	1222; 3175
BsrDI	!CATTGC	1	3349
BsrFI	R!CCGGY	2	632; 3194
BsrGI	T!GTACA	1	479
BsrSI	ACTGGN!	6	1010; 1747; 2001; 2629; 2642; 3590
BsrSI	C!CAGT	9	600; 869; 1450; 1968; 2754; 3160; 3278; 3321; 3760
BssAI	R!CCGGY	2	632; 3194
BssECI	C!CNNGG	12	131; 245; 386; 398; 458; 495; 624; 782; 1435; 1504; 1683; 2381
BssHII	G!CGCGC	0	
BssKI	!CCNGG	21	245; 397; 446; 458; 473; 494; 555; 624; 699; 921; 1378; 1434; 1682; 1865; 1900; 2247; 2368; 2381; 2599; 3295; 3646
BssMI	!GATC	21	121; 127; 257; 266; 491; 566; 731; 865; 2787; 2862; 2873; 2881; 2959; 2971; 3076; 3417; 3435; 3481; 3739; 3756; 3792
BssNI	GR!CGYC	3	800; 3651; 4033
BssNAI	GTA!TAC	1	1994
BssSI	C!ACGAG	1	4085
BssSI	C!TCGTG	2	2394; 3778
BssTII	C!CWGGG	2	131; 1504
Bst6I	CTCTCN!	2	2105; 3909
Bst6I	!NNNNGAAGAG	0	
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	1	1994
BstACI	GR!CGYC	3	800; 3651; 4033
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	1	2045
BstAUI	T!GTACA	1	479
BstBI	TT!CGAA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bst2BI	C!ACGAG	1	4085
Bst2BI	C!TCGTG	2	2394; 3778
BstBAI	YAC!GTR	2	348; 1975
Bst4CI	ACN!GT	15	186; 1019; 1097; 1130; 1227; 1268; 1371; 1618; 1840; 1875; 2185; 2256; 2726; 3039; 3554
BstC8I	GCN!NGC	11	589; 634; 680; 953; 1181; 1549; 2152; 2238; 2275; 2835; 3226
BstDEI	C!TNAG	12	843; 880; 976; 1424; 1730; 1786; 2031; 2496; 2905; 3071; 3611; 4037
BstDSI	C!CRYGG	3	131; 782; 1504
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	1	1902
BstF5I	!CATCC	6	299; 356; 1196; 3093; 3274; 3561
BstFNI	CG!CG	9	596; 1822; 1824; 1927; 2268; 2849; 3179; 3672; 4004
BstH2I	RGCGC!Y	2	2099; 2469
BstHHI	GCG!C	16	407; 596; 1824; 1927; 1957; 2098; 2131; 2401; 2468; 2568; 2742; 2851; 3244; 3337; 3674; 4006
BstKTI	GAT!C	21	124; 130; 260; 269; 494; 569; 734; 868; 2790; 2865; 2876; 2884; 2962; 2974; 3079; 3420; 3438; 3484; 3742; 3759; 3795
BstMAI	GTCTCN!	2	1427; 3951
BstMAI	!NNNNGGAGAC	3	145; 1864; 3175
BstMBI	!GATC	21	121; 127; 257; 266; 491; 566; 731; 865; 2787; 2862; 2873; 2881; 2959; 2971; 3076; 3417; 3435; 3481; 3739; 3756; 3792
BstMCI	CGRY!CG	5	546; 633; 2561; 3484; 3633
BstMWI	GCNNNNN!NNGC	16	33; 206; 323; 593; 629; 794; 839; 957; 981; 1544; 2045; 2095; 2160; 2274; 2846; 3234
BstNI	CC!WGG	12	247; 399; 448; 460; 475; 496; 1380; 1436; 1684; 2249; 2370; 2383
BstNSI	RCATG!Y	3	321; 1860; 2225
BstOI	CC!WGG	12	247; 399; 448; 460; 475; 496; 1380; 1436; 1684; 2249; 2370; 2383
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	21	245; 397; 446; 458; 473; 494; 555; 624; 699; 921; 1378; 1434; 1682; 1865; 1900; 2247; 2368; 2381; 2599; 3295; 3646
BstSFI	C!TRYAG	3	2486; 2677; 3355
BstSLI	GKGCMI!C	7	184; 244; 625; 1674; 2041; 2539; 3785
BstSNI	TAC!GTA	0	
BstUI	CG!CG	9	596; 1822; 1824; 1927; 2268; 2849; 3179; 3672; 4004
Bst2UI	CC!WGG	12	247; 399; 448; 460; 475; 496; 1380; 1436; 1684; 2249; 2370; 2383
BstV1I	GCAGCNNNNNNN!	5	1872; 1969; 2640; 2849; 3543
BstV1I	!NNNNNNNNNNNGCTGC	7	578; 1801; 2113; 2131; 2550; 3089; 3152
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	1	4092
BstXI	CCANNNN!NTGG	0	
BstX2I	R!GATCY	9	127; 491; 865; 2862; 2873; 2959; 2971; 3739; 3756
BstYI	R!GATCY	9	127; 491; 865; 2862; 2873; 2959; 2971; 3739; 3756
BstZI	C!GGCCG	2	543; 630
BstZ17I	GTA!TAC	1	1994
BsuI	GTATCCNNNNNN!	0	
BsuI	!NNNNGGATAC	2	2424; 3951
Bsu15I	AT!CGAT	0	
Bsu36I	CC!TNAGG	0	
BsuRI	GG!CC	24	136; 194; 278; 521; 545; 599; 613; 632; 778; 788; 821; 1116; 1161; 1383; 1470; 1747; 2236; 2247; 2265; 2699; 3157; 3237; 3504; 4091
BsuTUI	AT!CGAT	0	
BtgI	C!CRYGG	3	131; 782; 1504
BtgZI	GCGATGNNNNNNNNN!	1	1639
BtgZI	!NNNNNNNNNNNNNCATCGC	1	1282
BthCI	GCNG!C	30	278; 431; 548; 594; 599; 632; 781; 791; 805; 921; 1547; 1806; 1817; 1863; 1960; 2013; 2129; 2150; 2268; 2423; 2566; 2631; 2634; 2840; 3105; 3168; 3507; 3534; 3629; 3858
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BtsI	GCAGTGNN!	1	3514
BtsI	!CACTGC	2	195; 3534
BtsCI	GGATGNN!	1	1902
BtsCI	!CATCC	6	299; 356; 1196; 3093; 3274; 3561
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	1	652
BveI	!NNNNNNNNGCAGGT	0	
Cac8I	GCN!NGC	11	589; 634; 680; 953; 1181; 1549; 2152; 2238; 2275; 2835; 3226
CaiI	CAGNNN!CTG	2	606; 2637
CciI	T!CATGA	3	2941; 3949; 4054
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	6	177; 213; 729; 1041; 1300; 3365
CdiI	C!GATG	2	1625; 3766
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	2010
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	2	665; 2273
CelII	GC!TNAGC	1	843
CfoI	GCG!C	16	407; 596; 1824; 1927; 1957; 2098; 2131; 2401; 2468; 2568; 2742; 2851; 3244; 3337; 3674; 4006
CfrI	Y!GGCCR	6	192; 543; 597; 630; 1468; 3502
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	2	632; 3194
Cfr13I	G!GNCC	12	277; 520; 612; 717; 786; 819; 1745; 3156; 3235; 3252; 3474; 4090
Cfr42I	CCGC!GG	0	
ChaI	GATC!	21	125; 131; 261; 270; 495; 570; 735; 869; 2791; 2866; 2877; 2885; 2963; 2975; 3080; 3421; 3439; 3485; 3743; 3760; 3796
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	5	322; 2067; 2273; 2828; 4051
CjeI	!NNNNNNNNNACNNNNNNNTGG	4	876; 2714; 2792; 2892
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	4	910; 2748; 2826; 2926
CjeI	!NNNNNNNNCCANNNNNNGT	5	288; 2033; 2239; 2794; 4017
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	4	322; 472; 2779; 4051
CjePI	!NNNNNNNNGANNNNNNNTGG	4	2714; 2892; 3012; 3484
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	4	2747; 2925; 3045; 3517
CjePI	!NNNNNNNNCCANNNNNNNNTC	4	289; 439; 2746; 4018
Clal	AT!CGAT	0	
CpoI	CG!GWCCG	0	
CseI	GACGCNNNNN!	3	808; 2332; 2910
CseI	!NNNNNNNNNNGCGTC	2	1916; 3640
CsiI	A!CCWGGT	0	
CspI	CG!GWCCG	0	
Csp6I	G!TAC	9	321; 345; 480; 573; 771; 1081; 1619; 2028; 3593
Csp45I	TT!CGAA	0	
CspAI	A!CCGGT	0	
CspCI	CAANNNNNGTGGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2100
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	1	3448
CviAII	C!ATG	18	132; 156; 318; 735; 1275; 1505; 1566; 1587; 1857; 1962; 2222; 2942; 3433; 3443; 3521; 3557; 3950; 4055
CviJI	RG!CY	70	136; 194; 278; 326; 392; 431; 521; 545; 555; 599; 613; 632; 678; 704; 778; 788; 816; 821; 833; 842; 847; 951; 955; 975; 984; 1103; 1116; 1161; 1232; 1383; 1428; 1470; 1582; 1703; 1729; 1747; 1814; 1863; 1882; 1915; 1960; 2000; 2144; 2163; 2236; 2247; 2265; 2291; 2389; 2525; 2530; 2555; 2634; 2699; 2710; 2753; 2782; 3102; 3145; 3157; 3198; 3224; 3228; 3237; 3303; 3393; 3403; 3466; 3504; 4091
CviKI-1	RG!CY	70	136; 194; 278; 326; 392; 431; 521; 545; 555; 599; 613; 632; 678; 704; 778; 788; 816; 821; 833; 842; 847; 951; 955; 975; 984; 1103; 1116; 1161; 1232; 1383; 1428; 1470; 1582; 1703; 1729; 1747; 1814; 1863; 1882; 1915; 1960; 2000; 2144; 2163; 2236; 2247; 2265; 2291; 2389; 2525; 2530; 2555; 2634; 2699; 2710; 2753; 2782; 3102; 3145; 3157; 3198; 3224; 3228; 3237; 3303; 3393; 3403; 3466; 3504; 4091
CviQI	G!TAC	9	321; 345; 480; 573; 771; 1081; 1619; 2028; 3593

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DdeI	C!TNAG	12	843; 880; 976; 1424; 1730; 1786; 2031; 2496; 2905; 3071; 3611; 4037
DinI	GGC!GCC	0	
DpnI	GA!TC	21	123; 129; 259; 268; 493; 568; 733; 867; 2789; 2864; 2875; 2883; 2961; 2973; 3078; 3419; 3437; 3483; 3741; 3758; 3794
DpnII	!GATC	21	121; 127; 257; 266; 491; 566; 731; 865; 2787; 2862; 2873; 2881; 2959; 2971; 3076; 3417; 3435; 3481; 3739; 3756; 3792
DraI	TTT!AAA	5	1123; 1462; 2980; 2999; 3691
DraII	RG!GNCCY	1	4090
DraIII	CACNNN!GTG	0	
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	1	368
DraRI	!NNNNNNNNNNNNNNNNNGTNCTTG	1	2665
DrdI	GACNNN!NNGTC	2	1916; 2329
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	1	3114
DseDI	GACNNN!NNGTC	2	1916; 2329
EaeI	Y!GGCCR	6	192; 543; 597; 630; 1468; 3502
EagI	C!GGCCG	2	543; 630
Eam1104I	CTCTCN!	2	2105; 3909
Eam1104I	!NNNNGAAGAG	0	
Eam1105I	GACNNN!NNGTC	1	3114
EarI	CTCTCN!	2	2105; 3909
EarI	!NNNNGAAGAG	0	
EciI	GGCGANNNNNNNNNNNN!	0	
EciI	!NNNNNNNNNTCCGCC	5	675; 1790; 2283; 2429; 3257
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	2	543; 630
Eco24I	GRGCY!C	1	557
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	145; 3175
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	717; 3252; 3474
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	2	543; 630
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	637; 712; 849; 2769
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	3781
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	0	
Eco88I	C!YCGRG	2	1; 385
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	2	131; 1504
Eco147I	AGG!CCT	0	
EcoHI	!CCSGG	9	555; 624; 699; 921; 1865; 1900; 2599; 3295; 3646
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	5	637; 712; 849; 1325; 2769
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	2	3184; 3781
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	4090
EcoRI	G!AATC	0	
EcoRII	!CCWGG	12	245; 397; 446; 458; 473; 494; 1378; 1434; 1682; 2247; 2368; 2381
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	2	131; 1504
EcoT22I	ATGCA!T	0	
EcoT38I	GRGCY!C	1	557
Eco53kl	GAG!CTC	0	
EgeI	GGC!GCC	0	
EheI	GGC!GCC	0	
ErhI	C!CWWGG	2	131; 1504
EsaBC3I	TC!GA	10	3; 177; 237; 261; 270; 714; 729; 1736; 2322; 3766
Esp3I	CGTCTCN!	1	1427
Esp3I	!NNNNNGAGACG	1	1864

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FaeI	CATG!	18	135; 159; 321; 738; 1278; 1508; 1569; 1590; 1860; 1965; 2225; 2945; 3436; 3446; 3524; 3560; 3953; 4058
Fail	YA!TR	50	12; 49; 115; 133; 157; 319; 736; 1012; 1026; 1087; 1212; 1241; 1276; 1344; 1346; 1413; 1476; 1506; 1519; 1567; 1588; 1858; 1963; 1994; 2008; 2044; 2046; 2223; 2287; 2360; 2665; 2943; 3015; 3017; 3019; 3099; 3390; 3434; 3444; 3522; 3528; 3541; 3558; 3624; 3679; 3900; 3951; 3963; 4056; 4069
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	1	396
FalI	!NNNNNNNNAAGNNNNNCTT	1	364
FaqI	GGGACNNNNNNNNNN!	0	
FaqI	!NNNNNNNNNNNNNGTCCC	1	588
FatI	!CATG	18	131; 155; 317; 734; 1274; 1504; 1565; 1586; 1856; 1961; 2221; 2941; 3432; 3442; 3520; 3556; 3949; 4054
FauI	CCCGCNNNN!	3	519; 687; 1188
FauI	!NNNNNNGCGGG	2	1632; 1926
FauNDI	CA!TATG	1	2044
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	1993
FmuI	GGNC!C	12	280; 523; 615; 720; 789; 822; 1748; 3159; 3238; 3255; 3477; 4093
Fnu4HI	GC!NGC	30	276; 429; 546; 592; 597; 630; 779; 789; 803; 919; 1545; 1804; 1815; 1861; 1958; 2011; 2127; 2148; 2266; 2421; 2564; 2629; 2632; 2838; 3103; 3166; 3505; 3532; 3627; 3856
FokI	GGATGNNNNNNNN!	1	1909
FokI	!NNNNNNNNNNNNNCATCC	6	286; 343; 1183; 3080; 3261; 3548
FriOI	GRGCY!C	1	557
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3336
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	6	952; 1700; 1809; 2716; 2969; 3304
FspEI	CCNNNNNNNNNNNN!	127	13; 144; 162; 183; 198; 244; 258; 292; 306; 321; 342; 366; 393; 411; 426; 448; 468; 487; 508; 523; 537; 559; 576; 613; 627; 646; 661; 675; 692; 713; 733; 792; 816; 835; 869; 892; 932; 960; 1028; 1043; 1097; 1130; 1171; 1193; 1213; 1269; 1287; 1329; 1392; 1442; 1463; 1484; 1505; 1558; 1583; 1599; 1686; 1761; 1798; 1814; 1831; 1861; 1879; 1914; 1929; 1974; 2055; 2074; 2100; 2117; 2204; 2250; 2268; 2298; 2312; 2361; 2382; 2405; 2419; 2434; 2448; 2463; 2534; 2557; 2574; 2588; 2609; 2635; 2713; 2767; 2804; 2819; 2890; 2981; 3057; 3079; 3110; 3126; 3163; 3190; 3208; 3234; 3251; 3268; 3284; 3309; 3334; 3362; 3419; 3452; 3482; 3518; 3574; 3614; 3646; 3660; 3683; 3760; 3787; 3830; 3869; 3921; 4015; 4029; 4058; 4079; 4105
FspEI	!NNNNNNNNNNNNNNGG	119	21; 53; 85; 104; 163; 197; 223; 247; 308; 338; 373; 406; 433; 460; 481; 503; 523; 542; 562; 581; 611; 686; 721; 760; 802; 834; 878; 897; 921; 942; 963; 991; 1019; 1041; 1089; 1143; 1185; 1210; 1289; 1313; 1344; 1365; 1421; 1452; 1491; 1510; 1533; 1564; 1616; 1642; 1669; 1692; 1711; 1729; 1756; 1776; 1814; 1852; 1879; 1906; 1925; 1970; 1995; 2033; 2060; 2078; 2118; 2139; 2157; 2185; 2218; 2247; 2273; 2321; 2355; 2413; 2439; 2474; 2493; 2511; 2560; 2586; 2610; 2630; 2653; 2678; 2705; 2749; 2776; 2794; 2845; 2877; 2914; 2942; 3014; 3045; 3122; 3180; 3214; 3235; 3281; 3343; 3370; 3391; 3444; 3486; 3507; 3571; 3611; 3633; 3691; 3722; 3811; 3830; 3849; 3921; 3940; 3979; 4061
Fsp4HI	GC!NGC	30	276; 429; 546; 592; 597; 630; 779; 789; 803; 919; 1545; 1804; 1815; 1861; 1958; 2011; 2127; 2148; 2266; 2421; 2564; 2629; 2632; 2838; 3103; 3166; 3505; 3532; 3627; 3856
GdiII	C!GGCCR	4	192; 543; 597; 630
GdiII	Y!GGCCG	3	543; 630; 3502
GlaI	GC!GC	16	406; 595; 1823; 1926; 1956; 2097; 2130; 2400; 2467; 2567; 2741; 2850; 3243; 3336; 3673; 4005
GluI	GC!NGC	30	276; 429; 546; 592; 597; 630; 779; 789; 803; 919; 1545; 1804; 1815; 1861; 1958; 2011; 2127; 2148; 2266; 2421; 2564; 2629; 2632; 2838; 3103; 3166; 3505; 3532; 3627; 3856
GsaI	CCCAG!C	0	
GsaI	GCTGG!G	3	552; 820; 2529
GsuI	CTGGAGNNNNNNNNNNNNNN!	1	1325
GsuI	!NNNNNNNNNNNNNCTCCAG	1	3184

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeI	WGG!CCW	6	136; 1383; 1470; 2236; 2247; 2699
HaeII	RGCGC!Y	2	2099; 2469
HaeIII	GG!CC	24	136; 194; 278; 521; 545; 599; 613; 632; 778; 788; 821; 1116; 1161; 1383; 1470; 1747; 2236; 2247; 2265; 2699; 3157; 3237; 3504; 4091
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	1	3133
HaeIV	!NNNNNNNNNGAYNNNNNRTC	1	3099
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	1	3132
HaeIV	!NNNNNNNNNGAYNNNNNRTC	1	3101
HapII	C!CGG	20	353; 557; 626; 633; 701; 922; 1158; 1200; 1328; 1867; 1901; 2428; 2575; 2601; 2791; 3195; 3229; 3296; 3406; 3648
HgaI	GACGCNNNNN!	3	808; 2332; 2910
HgaI	!NNNNNNNNNNNGCGTC	2	1916; 3640
HhaI	GCG!C	16	407; 596; 1824; 1927; 1957; 2098; 2131; 2401; 2468; 2568; 2742; 2851; 3244; 3337; 3674; 4006
Hin1I	GR!CGYC	3	800; 3651; 4033
Hin1II	CATG!	18	135; 159; 321; 738; 1278; 1508; 1569; 1590; 1860; 1965; 2225; 2945; 3436; 3446; 3524; 3560; 3953; 4058
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1210; 3132; 3206
Hin4I	!NNNNNNNNNGABNNNNNRTC	1	3100
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	1	3132
Hin4I	!NNNNNNNNNGAYNNNNNVTC	3	1178; 3100; 3174
Hin6I	G!CGC	16	405; 594; 1822; 1925; 1955; 2096; 2129; 2399; 2466; 2566; 2740; 2849; 3242; 3335; 3672; 4004
HinP1I	G!CGC	16	405; 594; 1822; 1925; 1955; 2096; 2129; 2399; 2466; 2566; 2740; 2849; 3242; 3335; 3672; 4004
HincII	GTY!RAC	0	
HindII	GTY!RAC	0	
HindIII	A!AGCTT	1	831
HinfI	G!ANTC	9	55; 852; 943; 1553; 1694; 2121; 2196; 2592; 3109
HpaI	GTT!AAC	0	
HpaII	C!CGG	20	353; 557; 626; 633; 701; 922; 1158; 1200; 1328; 1867; 1901; 2428; 2575; 2601; 2791; 3195; 3229; 3296; 3406; 3648
HphI	GGTGANNNNNNNN!	10	276; 498; 950; 1239; 1383; 1451; 1785; 1843; 3600; 3841
HphI	!NNNNNNNTCACC	8	387; 1245; 1439; 1493; 2957; 3184; 3806; 4095
Hpy8I	GTN!NAC	12	189; 308; 480; 573; 582; 1253; 1776; 1994; 2039; 2537; 3025; 3783
Hpy99I	CGWCG!	6	520; 802; 1323; 2326; 3120; 3383
Hpy166II	GTN!NAC	12	189; 308; 480; 573; 582; 1253; 1776; 1994; 2039; 2537; 3025; 3783
Hpy188I	TCN!GA	12	883; 905; 1852; 2018; 2335; 2413; 2766; 2900; 3035; 3481; 3492; 3612
Hpy188III	TC!NNGA	21	3; 125; 165; 435; 729; 893; 970; 1200; 1304; 1785; 1809; 2455; 2589; 2687; 2785; 2868; 2942; 3201; 3950; 4055; 4085
HpyAV	CCTCNNNNNN!	8	171; 243; 297; 345; 390; 2461; 2771; 3479
HpyAV	!NNNNNGAAGG	4	744; 2713; 3226; 3838
HpyCH4III	ACN!GT	15	186; 1019; 1097; 1130; 1227; 1268; 1371; 1618; 1840; 1875; 2185; 2256; 2726; 3039; 3554
HpyCH4IV	A!CGT	8	347; 1290; 1465; 1974; 2924; 3340; 3713; 4033
HpyCH4V	TG!CA	13	209; 317; 531; 654; 1860; 2039; 2537; 2833; 3168; 3258; 3451; 3539; 3783
HpyF3I	C!TNAG	12	843; 880; 976; 1424; 1730; 1786; 2031; 2496; 2905; 3071; 3611; 4037
HpyF10VI	GCNNNNN!NNGC	16	33; 206; 323; 593; 629; 794; 839; 957; 981; 1544; 2045; 2095; 2160; 2274; 2846; 3234
Hsp92I	GR!CGYC	3	800; 3651; 4033
Hsp92II	CATG!	18	135; 159; 321; 738; 1278; 1508; 1569; 1590; 1860; 1965; 2225; 2945; 3436; 3446; 3524; 3560; 3953; 4058
HspAI	G!CGC	16	405; 594; 1822; 1925; 1955; 2096; 2129; 2399; 2466; 2566; 2740; 2849; 3242; 3335; 3672; 4004
KasI	G!GCGCC	0	
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1199
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kzo9I	!GATC	21	121; 127; 257; 266; 491; 566; 731; 865; 2787; 2862; 2873; 2881; 2959; 2971; 3076; 3417; 3435; 3481; 3739; 3756; 3792
LguI	GCTCTCN!	1	2105
LguI	!NNNNGAAGAGC	0	
LpnI	RGC!GCGY	2	2097; 2467
LpnPI	CCDGNNNNNNNNNN!	53	154; 259; 295; 316; 366; 411; 448; 472; 487; 508; 570; 613; 628; 646; 664; 703; 869; 935; 1104; 1171; 1197; 1213; 1341; 1392; 1448; 1463; 1696; 1798; 1880; 1914; 1981; 2250; 2314; 2382; 2419; 2441; 2588; 2614; 2767; 2804; 3119; 3173; 3208; 3234; 3268; 3291; 3309; 3334; 3419; 3661; 3773; 3830; 4042
LpnPI	!NNNNNNNNNNNNNCHGG	54	232; 338; 384; 433; 460; 481; 534; 611; 686; 802; 878; 907; 955; 991; 1089; 1143; 1185; 1218; 1289; 1313; 1365; 1421; 1533; 1620; 1669; 1728; 1852; 1886; 1906; 1982; 2078; 2185; 2234; 2259; 2338; 2368; 2413; 2511; 2560; 2586; 2610; 2630; 2776; 2794; 3139; 3180; 3214; 3281; 3343; 3391; 3571; 3633; 3811; 3921
Lsp1109I	GCAGCNNNNNNNN!	5	1872; 1969; 2640; 2849; 3543
Lsp1109I	!NNNNNNNNNNNNNGCTGC	7	578; 1801; 2113; 2131; 2550; 3089; 3152
LweI	GCATCNNNNN!	10	218; 365; 734; 1046; 1719; 2022; 2098; 2318; 3370; 3810
LweI	!NNNNNNNNNNGATGC	6	518; 686; 1531; 1887; 2058; 3561
MabI	A!CCWGGT	0	
MaeI	C!TAG	6	952; 1700; 1809; 2716; 2969; 3304
MaeII	A!CGT	8	347; 1290; 1465; 1974; 2924; 3340; 3713; 4033
MaeIII	!GTNAC	13	499; 1260; 1365; 1875; 1970; 2577; 2640; 2756; 3039; 3370; 3428; 3581; 3769
MalI	GA!TC	21	123; 129; 259; 268; 493; 568; 733; 867; 2789; 2864; 2875; 2883; 2961; 2973; 3078; 3419; 3437; 3483; 3741; 3758; 3794
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	668; 1806
MbiI	GAG!CGG	4	36; 68; 2154; 3955
MboI	!GATC	21	121; 127; 257; 266; 491; 566; 731; 865; 2787; 2862; 2873; 2881; 2959; 2971; 3076; 3417; 3435; 3481; 3739; 3756; 3792
MboII	GAAGANNNNNNNN!	4	267; 501; 705; 2883
MboII	!NNNNNNNTCTTC	7	1478; 2092; 2954; 3709; 3787; 3896; 4092
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	59
MfII	R!GATCY	9	127; 491; 865; 2862; 2873; 2959; 2971; 3739; 3756
MhII	GDGCH!C	9	184; 244; 557; 625; 1674; 2041; 2539; 3700; 3785
MisI	TGG!CCA	1	1470
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	1470
MlyI	GAGTCNNNNN!	1	2601
MlyI	!NNNNNGACTC	4	846; 1688; 2115; 3103
Mly113I	GG!CGCC	0	
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	2	2436; 2620
MmeI	!NNNNNNNNNNNNNNNNNNNNNGTYGGA	0	
MnII	CCTCNNNNNNN!	13	10; 147; 321; 465; 693; 819; 889; 1828; 1858; 2120; 2403; 3281; 3487
MnII	!NNNNNNGAGG	19	93; 112; 171; 216; 231; 255; 381; 414; 570; 708; 732; 768; 1049; 1700; 2329; 2653; 3053; 3134; 4081
Mph1103I	ATGCA!T	0	
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1199
MroNI	G!CCGGC	1	632
MroXI	GAANN!NNTTC	1	3713
MscI	TGG!CCA	1	1470
MseI	T!TAA	18	95; 109; 835; 1122; 1461; 1603; 1655; 1676; 2002; 2927; 2979; 2984; 2998; 3051; 3286; 3325; 3690; 4062
MslI	CAYNN!NNRTG	3	3366; 3525; 3884
MspI	C!CGG	20	353; 557; 626; 633; 701; 922; 1158; 1200; 1328; 1867; 1901; 2428; 2575; 2601; 2791; 3195; 3229; 3296; 3406; 3648
Msp20I	TGG!CCA	1	1470
MspA1I	CMG!CKG	7	548; 1103; 1547; 1933; 2563; 2808; 3749
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	200	13; 49; 81; 94; 137; 153; 168; 189; 216; 234; 249; 273; 294; 310; 326; 341; 354; 373; 397; 410; 428; 447; 460; 486; 507; 523; 537; 561; 575; 588; 607; 627; 645; 663; 683; 702; 726; 741; 768; 786; 824; 840; 855; 868; 881; 894; 916; 934; 959; 973; 988; 1018; 1042; 1087; 1103; 1116; 1142; 1158; 1182; 1196; 1212; 1245; 1270; 1287; 1316; 1329; 1353; 1375; 1391; 1404; 1436; 1462; 1478; 1506; 1523; 1536; 1551; 1569; 1599; 1614; 1647; 1687; 1712; 1726; 1742; 1755; 1797; 1821; 1835; 1863; 1878; 1895; 1913; 1928; 1946; 1963; 1979; 1998; 2013; 2029; 2043; 2074; 2100; 2123; 2144; 2163; 2176; 2204; 2222; 2242; 2260; 2279; 2298; 2313; 2327; 2341; 2355; 2381; 2394; 2408; 2424; 2440; 2467; 2485; 2508; 2533; 2550; 2568; 2582; 2601; 2622; 2637; 2650; 2666; 2692; 2712; 2728; 2760; 2777; 2797; 2811; 2846; 2860; 2878; 2905; 2927; 2954; 2980; 3020; 3040; 3056; 3078; 3110; 3126; 3150; 3166; 3190; 3203; 3233; 3250; 3267; 3290; 3308; 3333; 3348; 3370; 3385; 3418; 3433; 3453; 3492; 3518; 3531; 3552; 3569; 3598; 3613; 3645; 3659; 3672; 3688; 3711; 3733; 3746; 3772; 3786; 3799; 3829; 3847; 3861; 3892; 3909; 3948; 3962; 4002; 4015; 4028; 4041; 4067; 4092
MspJI	!NNNNNNNNNNNNYNG	173	10; 49; 100; 118; 136; 163; 190; 208; 232; 256; 275; 300; 328; 347; 371; 404; 421; 445; 469; 497; 523; 542; 560; 579; 601; 619; 637; 658; 676; 698; 715; 742; 760; 782; 799; 825; 842; 867; 884; 908; 926; 943; 963; 992; 1039; 1077; 1098; 1128; 1162; 1185; 1215; 1244; 1261; 1289; 1313; 1335; 1354; 1392; 1411; 1436; 1461; 1480; 1506; 1534; 1552; 1573; 1609; 1626; 1653; 1670; 1690; 1717; 1737; 1757; 1777; 1795; 1814; 1836; 1853; 1873; 1898; 1916; 1936; 1954; 1983; 2002; 2031; 2056; 2078; 2097; 2114; 2132; 2168; 2185; 2208; 2234; 2253; 2274; 2292; 2315; 2334; 2355; 2380; 2397; 2414; 2439; 2468; 2487; 2508; 2533; 2551; 2575; 2596; 2624; 2645; 2673; 2692; 2716; 2740; 2762; 2795; 2812; 2832; 2854; 2877; 2909; 2928; 2955; 3004; 3041; 3058; 3092; 3117; 3139; 3164; 3181; 3207; 3225; 3253; 3282; 3303; 3320; 3344; 3363; 3386; 3407; 3429; 3449; 3476; 3507; 3543; 3565; 3588; 3609; 3629; 3646; 3692; 3722; 3740; 3764; 3784; 3803; 3827; 3857; 3921; 3938; 3963; 3980; 4001; 4024; 4041; 4062; 4082
MspR9I	CC!NGG	21	247; 399; 448; 460; 475; 496; 557; 626; 701; 923; 1380; 1436; 1684; 1867; 1902; 2249; 2370; 2383; 2601; 3297; 3648
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	59
MvaI	CC!WGG	12	247; 399; 448; 460; 475; 496; 1380; 1436; 1684; 2249; 2370; 2383
MvaI269I	GAATGCN!	2	1196; 1603
MvaI269I	G!CATTC	0	
MvnI	CG!CG	9	596; 1822; 1824; 1927; 2268; 2849; 3179; 3672; 4004
MvrI	CGAT!CG	1	3484
MwoI	GCNNNNN!NNGC	16	33; 206; 323; 593; 629; 794; 839; 957; 981; 1544; 2045; 2095; 2160; 2274; 2846; 3234
NaeI	GCC!GGC	1	634
NarI	GG!CGCC	0	
NciI	CC!SGG	9	557; 626; 701; 923; 1867; 1902; 2601; 3297; 3648
NcoI	C!CATGG	2	131; 1504
NdeI	CA!TATG	1	2044
NdeII	!GATC	21	121; 127; 257; 266; 491; 566; 731; 865; 2787; 2862; 2873; 2881; 2959; 2971; 3076; 3417; 3435; 3481; 3739; 3756; 3792
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	2	3360; 3585
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	2	3396; 3621
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	1	632
NheI	G!CTAGC	1	951
NlaIII	CATG!	18	135; 159; 321; 738; 1278; 1508; 1569; 1590; 1860; 1965; 2225; 2945; 3436; 3446; 3524; 3560; 3953; 4058
NlaIV	GGN!NCC	17	129; 183; 243; 279; 327; 522; 554; 561; 637; 1671; 2253; 2292; 3064; 3158; 3199; 3410; 4000
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	1	2334
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	508; 1558; 1814
Nli3877I	CYCGR!G	2	5; 389
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	1	3263

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmeAIII	!NNNNNNNNNNNNNNNNNNNNCTCGGC	0	
NmeDI	RCCGGYNNNNNNNN!	2	644; 3206
NmeDI	!NNNNNNNNNNNNRCCGGY	2	619; 3181
NmuCI	!GTSAC	4	1875; 1970; 3370; 3581
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3336
NsiI	ATGCA!T	0	
NspI	RCATG!Y	3	321; 1860; 2225
NspV	TT!CGAA	0	
OliI	CACNN!NNGTG	0	
PabI	GTA!C	9	323; 347; 482; 575; 773; 1083; 1621; 2030; 3595
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	0	
PaeR7I	C!TCGAG	1	1
PagI	T!CATGA	3	2941; 3949; 4054
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	1	1435
PauI	G!CGCGC	0	
PceI	AGG!CCT	0	
PciI	A!CATGT	1	2221
PciSI	GCTCTCN!	1	2105
PciSI	!NNNNGAAGAGC	0	
PcsI	WCGNNNN!NNNCGW	7	182; 218; 266; 779; 2147; 2545; 3422
PctI	GAATGCN!	2	1196; 1603
PctI	G!CATT	0	
PdiI	GCC!GGC	1	634
PdmI	GAANN!NNTTC	1	3713
PfeI	G!AWTC	4	55; 943; 1553; 2196
Pfi23II	C!GTACG	0	
PfifI	GACN!NNGTC	1	1968
PfIMI	CCANNNN!NTGG	1	1435
PfoI	T!CCNGGA	1	1865
PhoI	GG!CC	24	136; 194; 278; 521; 545; 599; 613; 632; 778; 788; 821; 1116; 1161; 1383; 1470; 1747; 2236; 2247; 2265; 2699; 3157; 3237; 3504; 4091
PinAI	A!CCGGT	0	
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	2	2040; 2116
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	587; 1165; 1519
PleI	GAGTCNNNN!	1	2600
PleI	!NNNNNGACTC	4	846; 1688; 2115; 3103
Ple19I	CGAT!CG	1	3484
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	2936
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3746
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3778
PpiI	!NNNNNNNGAACNNNNNCTC	1	2904
PpsI	GAGTCNNNN!	1	2600
PpsI	!NNNNNGACTC	4	846; 1688; 2115; 3103
Ppu10I	A!TGCAT	0	
Ppu21I	YAC!GTR	2	348; 1975
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	2221
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	3286
PsiI	TTA!TAA	1	49
Psp03I	GGWC!C	3	720; 3255; 3477
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	12	245; 397; 446; 458; 473; 494; 1378; 1434; 1682; 2247; 2368; 2381
Psp1406I	AA!CGTT	3	1290; 3340; 3713
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspEI	G!GTNACC	0	
PspGI	!CCWGG	12	245; 397; 446; 458; 473; 494; 1378; 1434; 1682; 2247; 2368; 2381
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	17	129; 183; 243; 279; 327; 522; 554; 561; 637; 1671; 2253; 2292; 3064; 3158; 3199; 3410; 4000
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	0	
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	0	
PspPI	G!GNCC	12	277; 520; 612; 717; 786; 819; 1745; 3156; 3235; 3252; 3474; 4090
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNNNN!	2	899; 3178
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	1	1670
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	4093
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	2	606; 2637
PsuI	R!GATCY	9	127; 491; 865; 2862; 2873; 2959; 2971; 3739; 3756
PsyI	GACN!NNGTC	1	1968
PteI	G!CGCGC	0	
PvuI	CGAT!CG	1	3484
PvuII	CAG!CTG	1	1103
RcaI	T!CATGA	3	2941; 3949; 4054
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	0	
RceI	!NNNNNNNNNNNNNNNNNGTTCGATG	0	
RgaI	GCGAT!CGC	0	
RglI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNNNN!	0	
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	2	446; 740
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	9	322; 346; 481; 574; 772; 1082; 1620; 2029; 3594
RsaNI	G!TAC	9	321; 345; 480; 573; 771; 1081; 1619; 2028; 3593
RseI	CAYNN!NNRTG	3	3366; 3525; 3884
RsrII	CG!GWCCG	0	
Rsr2I	CG!GWCCG	0	
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	1	2105
SapI	!NNNNGAAGAGC	0	
SaqAI	T!TAA	18	95; 109; 835; 1122; 1461; 1603; 1655; 1676; 2002; 2927; 2979; 2984; 2998; 3051; 3286; 3325; 3690; 4062
SatI	GC!NGC	30	276; 429; 546; 592; 597; 630; 779; 789; 803; 919; 1545; 1804; 1815; 1861; 1958; 2011; 2127; 2148; 2266; 2421; 2564; 2629; 2632; 2838; 3103; 3166; 3505; 3532; 3627; 3856
Sau96I	G!GNCC	12	277; 520; 612; 717; 786; 819; 1745; 3156; 3235; 3252; 3474; 4090
Sau3AI	!GATC	21	121; 127; 257; 266; 491; 566; 731; 865; 2787; 2862; 2873; 2881; 2959; 2971; 3076; 3417; 3435; 3481; 3739; 3756; 3792
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	2	1620; 3594
SchI	GAGTCNNNNN!	1	2601
SchI	!NNNNNGACTC	4	846; 1688; 2115; 3103
SciI	CTC!GAG	1	3
ScrFI	CC!NGG	21	247; 399; 448; 460; 475; 496; 557; 626; 701; 923; 1380; 1436; 1684; 1867; 1902; 2249; 2370; 2383; 2601; 3297; 3648
SdaI	CCTGCA!GG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNN!	4	273; 996; 3271; 3517
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	4	292; 834; 1763; 2384
SdeOSI	GACNNNNRTGANNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	1	3361
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	1	3395
SdeOSI	!NNNNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	9	184; 244; 557; 625; 1674; 2041; 2539; 3700; 3785
SeI	!CGCG	9	594; 1820; 1822; 1925; 2266; 2847; 3177; 3670; 4002
SetI	ASST!	61	2; 266; 313; 337; 350; 400; 418; 457; 488; 542; 581; 641; 646; 653; 664; 746; 818; 835; 844; 849; 881; 953; 957; 977; 986; 1086; 1105; 1234; 1293; 1381; 1468; 1537; 1561; 1705; 1816; 1850; 1865; 1884; 1977; 2165; 2340; 2391; 2437; 2493; 2512; 2527; 2664; 2763; 2784; 2927; 2970; 3068; 3104; 3305; 3343; 3405; 3468; 3716; 4031; 4036; 4068
SexAI	A!CCWGGT	0	
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	218; 365; 734; 1046; 1719; 2022; 2098; 2318; 3370; 3810
SfaNI	!NNNNNNNNNGATGC	6	518; 686; 1531; 1887; 2058; 3561
SfcI	C!TRYAG	3	2486; 2677; 3355
SfiI	GGCCNNNN!NGGCC	0	
SfoI	GGC!GCC	0	
Sfr274I	C!TCGAG	1	1
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	0	
SgeI	CNNGNNNNNNNNNN!	155	13; 137; 153; 168; 189; 216; 234; 249; 273; 294; 315; 330; 354; 373; 397; 410; 432; 447; 460; 486; 507; 523; 537; 561; 576; 600; 618; 637; 651; 684; 702; 726; 741; 768; 786; 825; 860; 881; 905; 923; 960; 973; 1018; 1103; 1116; 1160; 1188; 1212; 1245; 1270; 1287; 1316; 1329; 1365; 1391; 1447; 1462; 1478; 1506; 1536; 1560; 1578; 1599; 1647; 1695; 1712; 1755; 1797; 1821; 1835; 1869; 1895; 1913; 1928; 1946; 1963; 1980; 2009; 2105; 2123; 2144; 2163; 2212; 2234; 2249; 2279; 2313; 2341; 2360; 2381; 2394; 2408; 2429; 2447; 2467; 2494; 2534; 2550; 2568; 2587; 2601; 2622; 2637; 2650; 2671; 2699; 2728; 2766; 2797; 2821; 2846; 2860; 2880; 2905; 2935; 2954; 2981; 3040; 3118; 3131; 3150; 3166; 3190; 3207; 3233; 3251; 3267; 3290; 3308; 3333; 3370; 3385; 3418; 3433; 3455; 3533; 3569; 3598; 3614; 3646; 3659; 3672; 3733; 3748; 3772; 3790; 3829; 3853; 3892; 3948; 3962; 4015; 4041; 4067; 4097
SgeI	!NNNNNNNNNNNNNCNNG	135	111; 136; 163; 190; 208; 232; 256; 289; 316; 334; 358; 384; 406; 433; 460; 481; 509; 535; 556; 574; 592; 611; 630; 658; 676; 700; 721; 742; 760; 799; 834; 855; 879; 897; 934; 956; 992; 1077; 1134; 1162; 1186; 1219; 1244; 1261; 1290; 1314; 1339; 1365; 1421; 1452; 1480; 1510; 1534; 1552; 1573; 1621; 1669; 1686; 1729; 1771; 1795; 1843; 1869; 1887; 1907; 1930; 1948; 1983; 2079; 2097; 2118; 2137; 2186; 2208; 2234; 2253; 2287; 2315; 2334; 2355; 2380; 2403; 2421; 2441; 2468; 2508; 2533; 2561; 2586; 2611; 2631; 2673; 2702; 2740; 2771; 2795; 2820; 2854; 2879; 2909; 2928; 2955; 3014; 3092; 3124; 3146; 3164; 3181; 3207; 3225; 3264; 3282; 3307; 3344; 3363; 3392; 3412; 3429; 3507; 3543; 3572; 3620; 3646; 3707; 3746; 3764; 3803; 3827; 3866; 3922; 3989; 4015; 4041; 4071; 4093
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	1	2896
SimI	!GACCC	3	1964; 2413; 3182
SinI	G!GWCC	3	717; 3252; 3474
SlaI	C!TCGAG	1	1
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	3	3366; 3525; 3884
SmlI	C!TYRAG	6	1; 1704; 2327; 2589; 2866; 3734
SmoI	C!TYRAG	6	1; 1704; 2327; 2589; 2866; 3734
SmuI	CCCGCNNNN!	3	519; 687; 1188
SmuI	!NNNNNNNGCGGG	2	1632; 1926
SnaBI	TAC!GTA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SpeI	A!CTAGT	0	
SphI	GCATG!C	0	
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	13	17; 44; 59; 76; 88; 106; 836; 1203; 1608; 1647; 2981; 3287; 3542
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	0	
SsiI	C!CGC	31	440; 512; 546; 666; 680; 686; 723; 779; 789; 803; 919; 1181; 1545; 1801; 1804; 2061; 2087; 2104; 2266; 2294; 2421; 2440; 2561; 2806; 3177; 3268; 3505; 3670; 3747; 3856; 4002
SsiI	G!CGG	21	36; 68; 275; 428; 596; 629; 1639; 1894; 1933; 1943; 1985; 2010; 2048; 2147; 2154; 2175; 2671; 2815; 3459; 3626; 3955
SspI	AAT!ATT	2	1515; 3918
SspDI	G!GCGCC	0	
SspD5I	GGTANNNNNNNN!	10	276; 498; 950; 1239; 1383; 1451; 1785; 1843; 3600; 3841
SspD5I	!NNNNNNNNNTCACC	8	386; 1244; 1438; 1492; 2956; 3183; 3805; 4094
SstI	GAGCT!C	0	
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	19	368; 392; 518; 530; 563; 632; 686; 707; 1187; 1501; 1873; 1923; 2355; 2554; 2563; 2607; 3121; 3654; 4022
Sth132I	!NNNNNNNNCGGG	12	116; 914; 1631; 1893; 1925; 1942; 2446; 2884; 3129; 3288; 3651; 3712
Sth302II	CC!GG	20	354; 558; 627; 634; 702; 923; 1159; 1201; 1329; 1868; 1902; 2429; 2576; 2602; 2792; 3196; 3230; 3297; 3407; 3649
StrI	C!TCGAG	1	1
StsI	GGATGNNNNNNNNN!	1	1910
StsI	!NNNNNNNNNNNNNNCATCC	6	285; 342; 1182; 3079; 3260; 3547
StuI	AGG!CCT	0	
StyI	C!CWWGG	2	131; 1504
StyD4I	!CCNGG	21	245; 397; 446; 458; 473; 494; 555; 624; 699; 921; 1378; 1434; 1682; 1865; 1900; 2247; 2368; 2381; 2599; 3295; 3646
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	186; 1019; 1097; 1130; 1227; 1268; 1371; 1618; 1840; 1875; 2185; 2256; 2726; 3039; 3554
TaiI	ACGT!	8	350; 1293; 1468; 1977; 2927; 3343; 3716; 4036
TaqI	T!CGA	10	2; 176; 236; 260; 269; 713; 728; 1735; 2321; 3765
TaqII	GACCGANNNNNNNNNNN!	2	163; 3647
TaqII	!NNNNNNNNNTCGGTC	2	2123; 3462
TaqII	CACCCANNNNNNNNNNN!	2	259; 3800
TaqII	!NNNNNNNNNTGGGTG	2	1427; 3817
TasI	!AATT	13	17; 44; 59; 76; 88; 106; 836; 1203; 1608; 1647; 2981; 3287; 3542
TatI	W!GTACW	4	479; 1618; 2027; 3592
TauI	GCSG!C	18	278; 431; 548; 599; 632; 781; 791; 805; 921; 1547; 1806; 2013; 2150; 2268; 2423; 3507; 3629; 3858
TfiI	G!AWTC	4	55; 943; 1553; 2196
TII	C!TCGAG	1	1
TruII	T!TAA	18	95; 109; 835; 1122; 1461; 1603; 1655; 1676; 2002; 2927; 2979; 2984; 2998; 3051; 3286; 3325; 3690; 4062
Tru9I	T!TAA	18	95; 109; 835; 1122; 1461; 1603; 1655; 1676; 2002; 2927; 2979; 2984; 2998; 3051; 3286; 3325; 3690; 4062
TscAI	CASTGNN!	10	202; 1010; 2123; 2629; 2642; 2913; 3062; 3167; 3514; 3541
TseI	G!CWGC	13	591; 1814; 1860; 1957; 2126; 2144; 2563; 2628; 2631; 2837; 3102; 3165; 3531
TsoI	TARCCANNNNNNNNNNN!	1	1104
TsoI	!NNNNNNNNNTGGYTA	1	3513
Tsp45I	!GTSAC	4	1875; 1970; 3370; 3581
Tsp509I	!AATT	13	17; 44; 59; 76; 88; 106; 836; 1203; 1608; 1647; 2981; 3287; 3542
TspDTI	ATGAANNNNNNNNNNN!	5	268; 1203; 1233; 1621; 3005
TspDTI	!NNNNNNNNNTTCAT	5	327; 1285; 1551; 3082; 3385
TspEI	!AATT	13	17; 44; 59; 76; 88; 106; 836; 1203; 1608; 1647; 2981; 3287; 3542
TspGWI	ACGGANNNNNNNNNNN!	1	3896

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspGI	!NNNNNNNNNTCCGT	1	3554
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	10	202; 1010; 2123; 2629; 2642; 2913; 3062; 3167; 3514; 3541
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	1	321
TstI	!NNNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	1	289
Tth111I	GACN!NNGTC	1	1968
Tth111II	CAARCANNNNNNNNNN!	4	388; 781; 2811; 2850
Tth111II	!NNNNNNNNNTGYTTG	2	1755; 2818
UnbI	!GGNCC	12	276; 519; 611; 716; 785; 818; 1744; 3155; 3234; 3251; 3473; 4089
Van9II	CCANNNN!NTGG	1	1435
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	3	2037; 2535; 3781
VpaK11AI	!GGWCC	3	716; 3251; 3473
VpaK11BI	G!GWCC	3	717; 3252; 3474
VspI	AT!TAAT	1	3286
XagI	CCTNN!NNNAGG	0	
XapI	R!AATY	2	17; 1203
XbaI	T!CTAGA	1	1808
XceI	RCATG!Y	3	321; 1860; 2225
XcmI	CCANNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	1
XhoII	R!GATCY	9	127; 491; 865; 2862; 2873; 2959; 2971; 3739; 3756
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	0	
XmiI	GT!MKAC	1	1993
XmnI	GAANN!NNTTC	1	3713
XspI	C!TAG	6	952; 1700; 1809; 2716; 2969; 3304
ZraI	GAC!GTC	1	4034
ZrmI	AGT!ACT	2	1620; 3594
Zsp2I	ATGCA!T	0	