

## pPhi-Yellow-PRL-dest1 vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1079; 1284
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1367; 2323; 4112
AatI	AGG!CCT	1	2117
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	58
AccII	CG!CG	20	69; 185; 416; 455; 740; 770; 945; 1220; 1596; 1616; 1640; 1671; 2362; 2663; 3101; 3185; 3248; 3317; 3590; 4171
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2398
Acc36I	ACCTGCNNNN!	2	2564; 3014
Acc36I	!NNNNNNNNGCAGGT	1	2183
Acc65I	G!GTACC	1	63
AccB1I	G!GYRCC	6	63; 106; 295; 1449; 2295; 2330
AccB7I	CCANNNN!NTGG	1	498
AccBSI	CCG!CTC	2	1720; 2909
AccBSI	GAG!CGG	3	884; 1556; 2963
AceIII	CAGCTCNNNNNNN!	1	1252
AceIII	!NNNNNNNNNNGAGCTG	2	313; 333
AciI	C!CGC	31	67; 183; 414; 738; 783; 826; 943; 1611; 1614; 1628; 1718; 1966; 1978; 1987; 1999; 2009; 2020; 2066; 2205; 2268; 2770; 2815; 2881; 2907; 3032; 3035; 3183; 3315; 3622; 3766; 4262
AciI	G!CGG	28	69; 104; 185; 662; 665; 832; 838; 884; 1556; 1583; 1671; 1781; 2362; 2426; 2527; 2530; 2810; 2865; 2963; 3101; 3248; 3388; 3631; 3876; 3997; 4016; 4143; 4171
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	11	86; 807; 931; 944; 2164; 2475; 2721; 3113; 3472; 3570; 3656
AclWI	!NNNNNGATCC	6	73; 123; 2540; 3084; 3471; 3568
AcoI	Y!GGCCR	9	165; 468; 489; 629; 940; 2202; 2376; 2767; 2794
AcsI	R!AATTY	4	47; 1110; 1214; 1225
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	4	349; 592; 2442; 2874
AcuI	!NNNNNNNNNNNNNCTTCAG	2	159; 3672
AcvI	CAC!GTG	3	495; 678; 708
AcyI	GR!CGYC	5	107; 296; 2296; 2998; 3077
AdeI	CACNNN!GTG	1	1412
AfaI	GT!AC	6	65; 316; 448; 541; 688; 2602
AfeI	AGC!GCT	1	14
AfiI	CCNNNNN!NNGG	22	138; 189; 263; 420; 498; 661; 831; 1308; 1634; 2026; 2277; 2821; 3102; 3134; 3266; 3301; 3351; 3383; 3736; 4015; 4181; 4199
AflII	C!TTAAG	1	1178
AflIII	A!CRYGT	1	4214
AgeI	A!CCGGT	1	84
AgsI	TTS!AA	9	408; 480; 519; 585; 1707; 1751; 1761; 2174; 3750
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	14	262; 272; 470; 794; 875; 1830; 1885; 1902; 2681; 3260; 3363; 4053; 4066; 4187
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	1	274
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	1870; 1942
AlfI	!NNNNNNNNNNNGCANNNNNNNTGC	2	1836; 1908
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1378
AloI	!NNNNNNNGGANNNNNNNGTTC	1	214
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	1	246
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1346
AluI	AG!CT	18	36; 42; 327; 347; 462; 701; 714; 1075; 1242; 1499; 1794; 2082; 2402; 2860; 3657; 3914; 3960; 4050
AluBI	AG!CT	18	36; 42; 327; 347; 462; 701; 714; 1075; 1242; 1499; 1794; 2082; 2402; 2860; 3657; 3914; 3960; 4050
AlwI	GGATCNNNN!	11	86; 807; 931; 944; 2164; 2475; 2721; 3113; 3472; 3570; 3656
AlwI	!NNNNNGATCC	6	73; 123; 2540; 3084; 3471; 3568
Alw21I	GWGCW!C	6	38; 271; 677; 2409; 2599; 3904
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	5	754; 1720; 2138; 3157; 3285
Alw44I	G!TGCAC	2	673; 3900
AlwNI	CAGNN!CTG	2	3397; 3805
Ama87I	C!YCGRG	5	31; 74; 322; 682; 803
Aor13HI	T!CCGGA	0	
Aor51HI	AG!GCT	1	14
ApaI	GGGCC!C	1	75
ApaBI	GCANNNNN!TGC	4	911; 1864; 1936; 3398
ApaLI	G!TGCAC	2	673; 3900
ApeKI	G!CWGC	19	101; 347; 440; 608; 858; 904; 1072; 1591; 2256; 2357; 2399; 2440; 2533; 2920; 3373; 3599; 3805; 3808; 3873
ApoI	R!AATTY	4	47; 1110; 1214; 1225
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2811
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	2605; 3258; 4096
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	2695
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	296
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2124
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	2866
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	28	28; 79; 129; 553; 588; 600; 634; 733; 800; 924; 937; 954; 2134; 2138; 2157; 2468; 2546; 2627; 2636; 2714; 3090; 3106; 3465; 3477; 3555; 3563; 3574; 3649
AsiGI	A!CCGGT	1	84
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2414
Asp700I	GAANN!NNTTC	1	334
Asp718I	G!GTACC	1	63
AspA2I	C!CTAGG	2	2118; 3133
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	29	15; 109; 298; 377; 418; 580; 770; 772; 843; 1562; 1570; 1596; 1618; 1627; 1640; 1671; 2290; 2298; 2362; 2399; 2665; 2925; 3101; 3187; 3590; 3699; 3873; 3973; 4040
AspS9I	G!GNCC	11	71; 72; 319; 667; 891; 1403; 2812; 3257; 3303; 3361; 3394
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	45; 2978
AsuC2I	CC!SGG	6	75; 76; 2300; 2460; 3073; 3837
AsuHPI	GGTGANNNNNNNNN!	4	288; 435; 3367; 3483
AsuHPI	!NNNNNNNTCACC	6	375; 516; 727; 889; 1413; 2474
AsuNHI	G!CTAGC	0	
AvaI	C!YCGRG	5	31; 74; 322; 682; 803
AvaII	G!GWCC	3	891; 2812; 3257
AviII	TGC!GCA	1	2398
AvrII	C!CTAGG	2	2118; 3133
AxyI	CC!TNAGG	2	1776; 3408

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI:C	9	75; 257; 263; 677; 683; 876; 2242; 2335; 3904
BalI	TGG!CCA	4	167; 470; 491; 2378
BamHI	G!GATCC	1	78
BanI	G!GYRCC	6	63; 106; 295; 1449; 2295; 2330
BanII	GRGCY!C	5	38; 75; 1487; 2661; 3371
BanIII	AT!CGAT	1	2136
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	354
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	1	322
BasI	CCANNNN!NTGG	1	498
BauI	C!ACGAG	3	595; 3014; 4041
BauI	C!TCGTG	1	2888
BbeI	GGCGC!C	3	110; 299; 2299
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	3	495; 678; 708
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	4	354; 1866; 1938; 2701
BbvI	GCAGCNNNNNN!	10	113; 452; 620; 916; 1084; 2369; 2411; 2932; 3385; 3885
BbvI	!NNNNNNNNNNNGCTGC	8	334; 845; 1578; 2243; 2427; 2520; 3586; 3792
Bbv12I	GWGCW!C	6	38; 271; 677; 2409; 2599; 3904
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	388; 664; 1426; 1990; 2516; 3018
BccI	!NNNNNGATGG	10	141; 157; 352; 391; 481; 844; 882; 1394; 2174; 2602
BceAI	ACGGCNNNNNNNNNN!	7	138; 213; 309; 333; 582; 2722; 3209
BceAI	!NNNNNNNNNNNGCCGT	4	757; 1437; 2255; 3714
Bcefl	ACGGCNNNNNNNNNN!	7	138; 213; 309; 333; 582; 2722; 3209
Bcefl	!NNNNNNNNNNNGCCGT	4	758; 1438; 2256; 3715
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	1725; 2515; 4016
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	6	75; 76; 2300; 2460; 3073; 3837
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNNTCANNNNNNNNNN!	1	4149
BdaI	!NNNNNNNNNNNTGANNNNNNNTCA	1	4115
BfaI	C!TAG	9	10; 920; 951; 1145; 1563; 2119; 3134; 3468; 3721
BfiI	ACTGGGNNNN!	1	2245
BfiI	!NNNNCCCAGT	3	222; 294; 1997
BfmI	C!TRYAG	5	52; 902; 1631; 3758; 3949
BfoI	RGCGC!Y	8	16; 110; 299; 581; 1563; 1571; 2299; 3974
BfrI	C!TTAAG	1	1178
BfuI	GTATCCNNNNNN!	3	1725; 2515; 4016
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	2564; 3014
BfuAI	!NNNNNNNNNGCAGGT	1	2183
BfuCI	!GATC	28	27; 78; 128; 552; 587; 599; 633; 732; 799; 923; 936; 953; 2133; 2137; 2156; 2467; 2545; 2626; 2635; 2713; 3089; 3105; 3464; 3476; 3554; 3562; 3573; 3648
BglI	GCCNNNN!NGGC	1	2071
BglII	A!GATCT	2	27; 587
BisI	GC!NGC	39	102; 105; 348; 441; 609; 663; 666; 783; 839; 859; 905; 943; 1073; 1592; 1614; 1628; 2066; 2205; 2257; 2268; 2358; 2363; 2400; 2441; 2528; 2534; 2770; 2866; 2907; 2921; 3035; 3374; 3389; 3600; 3806; 3809; 3874; 4017; 4172

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BlnI	C!CTAGG	2	2118; 3133
BlpI	GC!TNAGC	1	715
BlsI	GCN!GC	39	103; 106; 349; 442; 610; 664; 667; 784; 840; 860; 906; 944; 1074; 1593; 1615; 1629; 2067; 2206; 2258; 2269; 2359; 2364; 2401; 2442; 2529; 2535; 2771; 2867; 2908; 2922; 3036; 3375; 3390; 3601; 3807; 3810; 3875; 4018; 4173
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	891; 2812; 3257
Bme1390I	CC!NGG	20	75; 76; 264; 274; 472; 796; 877; 1832; 1887; 1904; 2300; 2460; 2683; 3073; 3262; 3365; 3837; 4055; 4068; 4189
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	5	31; 74; 322; 682; 803
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	72; 73; 320; 668; 892; 1404; 2813; 3258; 3304; 3362; 3395
BmiI	GGN!NCC	20	65; 73; 80; 108; 297; 321; 669; 1451; 1472; 1484; 1675; 1836; 1908; 2297; 2332; 3180; 3259; 3304; 4147; 4186
BmrI	ACTGGGNNNNN!	1	2245
BmrI	!NNNNCCCAGT	3	222; 294; 1997
BmrFI	CC!NGG	20	75; 76; 264; 274; 472; 796; 877; 1832; 1887; 1904; 2300; 2460; 2683; 3073; 3262; 3365; 3837; 4055; 4068; 4189
BmsI	GCATCNNNNN!	7	188; 1112; 1875; 1947; 2595; 2659; 2934
BmsI	!NNNNNNNNNGATGC	6	192; 213; 2254; 2509; 2725; 4117
BmtI	GCTAG!C	0	
BmuI	ACTGGGNNNNN!	1	2245
BmuI	!NNNNCCCAGT	3	222; 294; 1997
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2085; 2984
BpI	!NNNNNNNNGAGNNNNNCTC	2	2053; 2952
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	285; 532; 3136
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	3079
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	45; 2978
Bpu1102I	GC!TNAGC	1	715
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	3590; 4129
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	22; 2672; 3831
BpuMI	CC!SGG	6	75; 76; 2300; 2460; 3073; 3837
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	754; 3285
Bsa29I	AT!CGAT	1	2136
BsaAI	YAC!GTR	7	138; 366; 495; 678; 708; 1412; 2600
BsaBI	GATNN!NNATC	2	958; 2155
BsaHI	GR!CGYC	5	107; 296; 2296; 2998; 3077
BsaJI	C!CNNGG	24	67; 74; 120; 183; 262; 272; 419; 471; 773; 795; 816; 875; 1830; 1902; 2025; 2060; 2069; 2118; 2459; 2728; 3133; 3261; 3364; 4054
BsaMI	GAATGCN!	1	1047
BsaMI	G!CATTC	1	1140
BsaWI	W!CCGGW	6	18; 84; 2327; 3171; 3861; 4008
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1376
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1346
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	1297; 3204
Bsc4I	CCNNNNN!NNGG	22	138; 189; 263; 420; 498; 661; 831; 1308; 1634; 2026; 2277; 2821; 3102; 3134; 3266; 3301; 3351; 3383; 3736; 4015; 4181; 4199
BscAI	GCATCNNNN!	7	187; 1111; 1874; 1946; 2594; 2658; 2933
BscAI	!NNNNNNGATGC	6	195; 216; 2257; 2512; 2728; 4120

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BseI	ACTGGN!	3	2240; 2441; 3687
BseI	C!CAGT	6	228; 300; 1325; 2003; 3799; 3812
Bse8I	GATNN!NNATC	2	958; 2155
Bse21I	CC!TNAGG	2	1776; 3408
Bse118I	R!CCGGY	8	84; 244; 604; 828; 1513; 2615; 2796; 3079
BseAI	T!CCGGA	0	
BseBI	CC!WGG	14	264; 274; 472; 796; 877; 1832; 1887; 1904; 2683; 3262; 3365; 4055; 4068; 4189
BseCI	AT!CGAT	1	2136
BseDI	C!CNNGG	24	67; 74; 120; 183; 262; 272; 419; 471; 773; 795; 816; 875; 1830; 1902; 2025; 2060; 2069; 2118; 2459; 2728; 3133; 3261; 3364; 4054
Bse3DI	GCAATGNN!	1	2529
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	10	168; 228; 492; 729; 852; 893; 2156; 2613; 2638; 3092
BseGI	!CATCC	2	179; 1982
BseJI	GATNN!NNATC	2	958; 2155
BseLI	CCNNNNN!NNGG	22	138; 189; 263; 420; 498; 661; 831; 1308; 1634; 2026; 2277; 2821; 3102; 3134; 3266; 3301; 3351; 3383; 3736; 4015; 4181; 4199
BseMI	GCAATGNN!	1	2529
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	38; 3422
BseMII	!NNNNNNNNNCTGAG	6	706; 1767; 2069; 2950; 3522; 3931
BseNI	ACTGGN!	3	2240; 2441; 3687
BseNI	C!CAGT	6	228; 300; 1325; 2003; 3799; 3812
BsePI	G!CGCGC	1	768
BseRI	GAGGAGNNNNNNNNNN!	1	2114
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGC!C	9	75; 257; 263; 677; 683; 876; 2242; 2335; 3904
BseXI	GCAGC!NNNNNNNN!	10	113; 452; 620; 916; 1084; 2369; 2411; 2932; 3385; 3885
BseXI	!NNNNNNNNNNNGCTGC	8	334; 845; 1578; 2243; 2427; 2520; 3586; 3792
BseX3I	C!GGCCG	2	940; 2202
BseYI	C!CCAGC	3	1839; 1911; 3910
BseYI	G!CTGGG	2	498; 2800
BsgI	GTGCAGNNNNNNNNNNNNNN!	1	388
BsgI	!NNNNNNNNNNNNNCTGCAC	1	222
Bsh1236I	CG!CG	20	69; 185; 416; 455; 740; 770; 945; 1220; 1596; 1616; 1640; 1671; 2362; 2663; 3101; 3185; 3248; 3317; 3590; 4171
Bsh1285I	CGRY!CG	4	89; 943; 2205; 3880
BshFI	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 942; 1262; 1404; 2059; 2065; 2074; 2117; 2204; 2378; 2769; 2796; 3305; 3362; 3395; 3740; 4174; 4192; 4203
BshNI	G!GYRCC	6	63; 106; 295; 1449; 2295; 2330
BshTI	A!CCGGT	1	84
BshVI	AT!CGAT	1	2136
BsiEI	CGRY!CG	4	89; 943; 2205; 3880
BsiHKAI	GWGCW!C	6	38; 271; 677; 2409; 2599; 3904
BsiHKCI	C!YCGRG	5	31; 74; 322; 682; 803
BsiSI	C!CGG	22	19; 75; 85; 245; 605; 829; 1514; 2201; 2278; 2300; 2328; 2459; 2549; 2616; 2797; 3072; 3080; 3172; 3646; 3836; 3862; 4009
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	22	138; 189; 263; 420; 498; 661; 831; 1308; 1634; 2026; 2277; 2821; 3102; 3134; 3266; 3301; 3351; 3383; 3736; 4015; 4181; 4199
BsIFI	GGGACNNNNNNNNNN!	3	2447; 2979; 3088
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1812; 1884; 1948; 3243
BsmI	GAATGCN!	1	1047
BsmI	G!CATTC	1	1140
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	5	754; 1720; 2138; 3157; 3285
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2447; 2979; 3088
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1812; 1884; 1948; 3243

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BsnI	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 942; 1262; 1404; 2059; 2065; 2074; 2117; 2204; 2378; 2769; 2796; 3305; 3362; 3395; 3740; 4174; 4192; 4203
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	754; 3285
BsoBI	C!YCGRG	5	31; 74; 322; 682; 803
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	816; 2025; 2728
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	3099
Bsp24I	!NNNNNNCCANNNNNGTC	2	3520; 3698
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3552; 3730
Bsp24I	!NNNNNNNGACNNNNNTGG	1	3067
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	45; 2978
Bsp120I	G!GGCCC	1	71
Bsp143I	!GATC	28	27; 78; 128; 552; 587; 599; 633; 732; 799; 923; 936; 953; 1133; 2137; 2156; 2467; 2545; 2626; 2635; 2713; 3089; 3105; 3464; 3476; 3554; 3562; 3573; 3648
Bsp1286I	GDGCH!C	16	38; 75; 257; 263; 271; 677; 683; 876; 1487; 2242; 2335; 2409; 2599; 2661; 3371; 3904
Bsp1407I	T!GTACA	2	446; 539
Bsp1720I	GC!TNAGC	1	715
BspACI	C!CGC	31	67; 183; 414; 738; 783; 826; 943; 1611; 1614; 1628; 1718; 1966; 1978; 1987; 1999; 2009; 2020; 2066; 2205; 2268; 2770; 2815; 2881; 2907; 3032; 3035; 3183; 3315; 3622; 3766; 4262
BspACI	G!CGG	28	69; 104; 185; 662; 665; 832; 838; 884; 1556; 1583; 1671; 1781; 2362; 2426; 2527; 2530; 2810; 2865; 2963; 3101; 3248; 3388; 3631; 3876; 3997; 4016; 4143; 4171
BspCNI	CTCAGNNNNNNNN!	2	37; 3421
BspCNI	!NNNNNNCTGAG	6	707; 1768; 2070; 2951; 3523; 3932
BspDI	AT!CGAT	1	2136
BspD6I	GACTCNNNN!	5	30; 955; 1369; 2975; 3852
BspD6I	!NNNNNGAGTC	2	1332; 1764
BspEI	T!CCGGA	0	
BspFNI	CG!CG	20	69; 185; 416; 455; 740; 770; 945; 1220; 1596; 1616; 1640; 1671; 2362; 2663; 3101; 3185; 3248; 3317; 3590; 4171
BspHI	T!CATGA	2	1722; 3494
BspLI	GGN!NCC	20	65; 73; 80; 108; 297; 321; 669; 1451; 1472; 1484; 1675; 1836; 1908; 2297; 2332; 3180; 3259; 3304; 4147; 4186
BspMI	ACCTGCNNNN!	2	2564; 3014
BspMI	!NNNNNNNGCAGGT	1	2183
BspOI	GCTAG!C	0	
BspPI	GGATCNNNN!	11	86; 807; 931; 944; 2164; 2475; 2721; 3113; 3472; 3570; 3656
BspPI	!NNNNNGATCC	6	73; 123; 2540; 3084; 3471; 3568
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	568; 2640; 2850
BspTI	C!TTAAG	1	1178
BspT104I	TT!CGAA	2	45; 2978
BspT107I	G!GYRCC	6	63; 106; 295; 1449; 2295; 2330
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	754; 3285
BsrI	ACTGGN!	3	2240; 2441; 3687
BsrI	C!CAGT	6	228; 300; 1325; 2003; 3799; 3812
BsrBI	CCG!CTC	2	1720; 2909
BsrBI	GAG!CGG	3	884; 1556; 2963
BsrDI	GCAATGNN!	1	2529
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	8	84; 244; 604; 828; 1513; 2615; 2796; 3079
BsrGI	T!GTACA	2	446; 539
BsrSI	ACTGGN!	3	2240; 2441; 3687
BsrSI	C!CAGT	6	228; 300; 1325; 2003; 3799; 3812
BssAI	R!CCGGY	8	84; 244; 604; 828; 1513; 2615; 2796; 3079
BssECI	C!CNNGG	24	67; 74; 120; 183; 262; 272; 419; 471; 773; 795; 816; 875; 1830; 1902; 2025; 2060; 2069; 2118; 2459; 2728; 3133; 3261; 3364; 4054
BssHII	G!CGCGC	1	768

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssKI	!CCNGG	20	73; 74; 262; 272; 470; 794; 875; 1830; 1885; 1902; 2298; 2458; 2681; 3071; 3260; 3363; 3835; 4053; 4066; 4187
BssMI	!GATC	28	27; 78; 128; 552; 587; 599; 633; 732; 799; 923; 936; 953; 2133; 2137; 2156; 2467; 2545; 2626; 2635; 2713; 3089; 3105; 3464; 3476; 3554; 3562; 3573; 3648
BssNI	GR!CGYC	5	107; 296; 2296; 2998; 3077
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	595; 3014; 4041
BssSI	C!TCGTG	1	2888
BssT1I	C!CWWGG	5	816; 2025; 2118; 2728; 3133
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	568; 1763; 2640; 2850
Bst98I	C!TTAAG	1	1178
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	5	107; 296; 2296; 2998; 3077
BstAFI	C!TTAAG	1	1178
BstAPI	GCANNNN!NTGC	4	910; 1863; 1935; 3397
BstAUI	T!GTACA	2	446; 539
BstBI	TT!CGAA	2	45; 2978
Bst2BI	C!ACGAG	3	595; 3014; 4041
Bst2BI	C!TCGTG	1	2888
BstBAI	YAC!GTR	7	138; 366; 495; 678; 708; 1412; 2600
Bst4CI	ACN!GT	11	63; 765; 895; 1387; 2676; 2792; 2900; 3223; 3714; 4184; 4255
BstC8I	GCN!NGC	31	71; 207; 352; 606; 770; 830; 856; 1515; 1558; 1572; 1845; 1864; 1917; 1936; 2190; 2376; 2595; 2661; 2667; 2699; 2740; 2744; 2798; 3081; 3268; 3315; 3371; 3393; 3604; 4164; 4201
BstDEI	C!TNAG	8	24; 715; 1776; 2078; 2959; 3408; 3531; 3940
BstDSI	C!CRYGG	7	67; 120; 183; 773; 816; 2025; 2728
BstEII	G!GTNACC	2	276; 423
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	10	168; 228; 492; 729; 852; 893; 2156; 2613; 2638; 3092
BstF5I	!CATCC	2	179; 1982
BstFNI	CG!CG	20	69; 185; 416; 455; 740; 770; 945; 1220; 1596; 1616; 1640; 1671; 2362; 2663; 3101; 3185; 3248; 3317; 3590; 4171
BstH2I	RGCGC!Y	8	16; 110; 299; 581; 1563; 1571; 2299; 3974
BstHHI	GCG!C	29	15; 109; 298; 377; 418; 580; 770; 772; 843; 1562; 1570; 1596; 1618; 1627; 1640; 1671; 2290; 2298; 2362; 2399; 2665; 2925; 3101; 3187; 3590; 3699; 3873; 3973; 4040
BstKTI	GAT!C	28	30; 81; 131; 555; 590; 602; 636; 735; 802; 926; 939; 956; 2136; 2140; 2159; 2470; 2548; 2629; 2638; 2716; 3092; 3108; 3467; 3479; 3557; 3565; 3576; 3651
BstMAI	GTCTCN!	0	
BstMAI	!NNNNGAGAC	5	754; 1720; 2138; 3157; 3285
BstMBI	!GATC	28	27; 78; 128; 552; 587; 599; 633; 732; 799; 923; 936; 953; 2133; 2137; 2156; 2467; 2545; 2626; 2635; 2713; 3089; 3105; 3464; 3476; 3554; 3562; 3573; 3648
BstMCI	CGRY!CG	4	89; 943; 2205; 3880
BstMWI	GCNNNNN!NNGC	27	191; 206; 245; 302; 575; 614; 838; 910; 1523; 1553; 1580; 1622; 1863; 1935; 1986; 2065; 2287; 2371; 2394; 2533; 2656; 2739; 3006; 3193; 3397; 3596; 4168
BstNI	CC!WGG	14	264; 274; 472; 796; 877; 1832; 1887; 1904; 2683; 3262; 3365; 4055; 4068; 4189
BstNSI	RCATG!Y	5	354; 1866; 1938; 2701; 4218
BstOI	CC!WGG	14	264; 274; 472; 796; 877; 1832; 1887; 1904; 2683; 3262; 3365; 4055; 4068; 4189
BstPI	G!GTNACC	2	276; 423
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	20	73; 74; 262; 272; 470; 794; 875; 1830; 1885; 1902; 2298; 2458; 2681; 3071; 3260; 3363; 3835; 4053; 4066; 4187
BstSFI	C!TRYAG	5	52; 902; 1631; 3758; 3949
BstSLI	GKGCMLC	9	75; 257; 263; 677; 683; 876; 2242; 2335; 3904
BstSNI	TAC!GTA	0	
BstUI	CG!CG	20	69; 185; 416; 455; 740; 770; 945; 1220; 1596; 1616; 1640; 1671; 2362; 2663; 3101; 3185; 3248; 3317; 3590; 4171
Bst2UI	CC!WGG	14	264; 274; 472; 796; 877; 1832; 1887; 1904; 2683; 3262; 3365; 4055; 4068; 4189
BstVII	GCAGCNNNNNNN!	10	113; 452; 620; 916; 1084; 2369; 2411; 2932; 3385; 3885

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstVI	!NNNNNNNNNNNGCTGC	8	334; 845; 1578; 2243; 2427; 2520; 3586; 3792
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	12	27; 78; 128; 587; 799; 2467; 2713; 3105; 3464; 3476; 3562; 3573
BstYI	R!GATCY	12	27; 78; 128; 587; 799; 2467; 2713; 3105; 3464; 3476; 3562; 3573
BstZI	C!GGCCG	2	940; 2202
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	1725; 2515; 4016
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2136
Bsu36I	CC!TNAGG	2	1776; 3408
BsuRI	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 942; 1262; 1404; 2059; 2065; 2074; 2117; 2204; 2378; 2769; 2796; 3305; 3362; 3395; 3740; 4174; 4192; 4203
BsuTUI	AT!CGAT	1	2136
BtgI	C!CRYGG	7	67; 120; 183; 773; 816; 2025; 2728
BtgZI	GCGATGNNNNNNNNNN!	6	170; 215; 263; 410; 1413; 2748
BtgZI	!NNNNNNNNNNNNNNNCATCGC	2	2567; 2911
BthCI	GCNG!C	39	104; 107; 350; 443; 611; 665; 668; 785; 841; 861; 907; 945; 1075; 1594; 1616; 1630; 2068; 2207; 2259; 2270; 2360; 2365; 2402; 2443; 2530; 2536; 2772; 2868; 2909; 2923; 3037; 3376; 3391; 3602; 3808; 3811; 3876; 4019; 4174
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	531; 1135
BtsCI	GGATGNN!	10	168; 228; 492; 729; 852; 893; 2156; 2613; 2638; 3092
BtsCI	!CATCC	2	179; 1982
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	2564; 3014
BveI	!NNNNNNNNNGCAGGT	1	2183
Cac8I	GCN!NGC	31	71; 207; 352; 606; 770; 830; 856; 1515; 1558; 1572; 1845; 1864; 1917; 1936; 2190; 2376; 2595; 2661; 2667; 2699; 2740; 2744; 2798; 3081; 3268; 3315; 3371; 3393; 3604; 4164; 4201
CaiI	CAGNNN!CTG	2	3397; 3805
CciI	T!CATGA	2	1722; 3494
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	6	627; 660; 2585; 2590; 2788; 2929
CdiI	C!GATG	7	156; 201; 249; 357; 396; 1399; 2734
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4168
CdpI	!NNNNNNNNNNNNNNNNNNNCTCCGC	2	1957; 1999
CelII	GC!TNAGC	1	715
CfoI	GCG!C	29	15; 109; 298; 377; 418; 580; 770; 772; 843; 1562; 1570; 1596; 1618; 1627; 1640; 1671; 2290; 2298; 2362; 2399; 2665; 2925; 3101; 3187; 3590; 3699; 3873; 3973; 4040
CfrI	Y!GGCCR	9	165; 468; 489; 629; 940; 2202; 2376; 2767; 2794
Cfr9I	C!CCGGG	1	74
Cfr10I	R!CCGGY	8	84; 244; 604; 828; 1513; 2615; 2796; 3079
Cfr13I	G!GNCC	11	71; 72; 319; 667; 891; 1403; 2812; 3257; 3303; 3361; 3394
Cfr42I	CCGC!GG	2	70; 186
ChaI	GATC!	28	31; 82; 132; 556; 591; 603; 637; 736; 803; 927; 940; 957; 2137; 2141; 2160; 2471; 2549; 2630; 2639; 2717; 3093; 3109; 3468; 3480; 3558; 3566; 3577; 3652
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	6	556; 888; 2113; 3553; 3653; 3731
CjeI	!NNNNNNNNNACNNNNNNNTGG	5	1780; 1875; 3067; 3617; 4172
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	5	1814; 1909; 3101; 3651; 4206
CjeI	!NNNNNNNNCCANNNNNNNGT	6	522; 854; 2079; 3519; 3619; 3697
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	3553; 3731
CjePI	!NNNNNNNNGANNNNNNNTGG	3	450; 3067; 3666
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	483; 3100; 3699
CjePI	!NNNNNNNNCCANNNNNNNTC	2	3520; 3698
ClaI	AT!CGAT	1	2136
CpoI	CG!GWCCG	1	2812



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CseI	GACGCNNNNN!	2	3006; 3085
CseI	!NNNNNNNNNNNGCGTC	3	1629; 3524; 4102
CsiI	A!CCWGGT	1	1885
CspI	CG!GWCCG	1	2812
Csp6I	G!TAC	6	64; 315; 447; 540; 687; 2601
Csp45I	TT!CGAA	2	45; 2978
CspAI	A!CCGGT	1	84
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	1576; 3185
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	18	96; 351; 696; 817; 864; 1723; 1863; 1935; 2026; 2167; 2512; 2698; 2729; 2755; 3111; 3495; 4215; 4266
CviJI	RG!CY	90	36; 42; 73; 167; 194; 320; 327; 347; 362; 462; 470; 476; 491; 559; 569; 631; 668; 701; 714; 752; 815; 821; 907; 942; 965; 1075; 1242; 1262; 1404; 1485; 1499; 1513; 1794; 1835; 1907; 2030; 2059; 2065; 2074; 2082; 2105; 2117; 2123; 2204; 2221; 2229; 2256; 2281; 2365; 2374; 2378; 2402; 2440; 2516; 2533; 2552; 2615; 2659; 2669; 2686; 2769; 2796; 2800; 2837; 2860; 2876; 3056; 3083; 3144; 3266; 3305; 3362; 3369; 3376; 3395; 3406; 3657; 3686; 3729; 3740; 3805; 3884; 3909; 3914; 3960; 4050; 4148; 4174; 4192; 4203
CviKI-1	RG!CY	90	36; 42; 73; 167; 194; 320; 327; 347; 362; 462; 470; 476; 491; 559; 569; 631; 668; 701; 714; 752; 815; 821; 907; 942; 965; 1075; 1242; 1262; 1404; 1485; 1499; 1513; 1794; 1835; 1907; 2030; 2059; 2065; 2074; 2082; 2105; 2117; 2123; 2204; 2221; 2229; 2256; 2281; 2365; 2374; 2378; 2402; 2440; 2516; 2533; 2552; 2615; 2659; 2669; 2686; 2769; 2796; 2800; 2837; 2860; 2876; 3056; 3083; 3144; 3266; 3305; 3362; 3369; 3376; 3395; 3406; 3657; 3686; 3729; 3740; 3805; 3884; 3909; 3914; 3960; 4050; 4148; 4174; 4192; 4203
CviQI	G!TAC	6	64; 315; 447; 540; 687; 2601
DdeI	C!TNAG	8	24; 715; 1776; 2078; 2959; 3408; 3531; 3940
DinI	GGC!GCC	3	108; 297; 2297
DpnI	GA!TC	28	29; 80; 130; 554; 589; 601; 635; 734; 801; 925; 938; 955; 2135; 2139; 2158; 2469; 2547; 2628; 2637; 2715; 3091; 3107; 3466; 3478; 3556; 3564; 3575; 3650
DpnII	!GATC	28	27; 78; 128; 552; 587; 599; 633; 732; 799; 923; 936; 953; 2133; 2137; 2156; 2467; 2545; 2626; 2635; 2713; 3089; 3105; 3464; 3476; 3554; 3562; 3573; 3648
DraI	TTT!AAA	3	998; 3440; 3459
DraII	RG!GNCCY	1	3394
DraIII	CACNNN!GTG	1	1412
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	338; 3776
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	1367; 2323; 4112
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1367; 2323; 4112
EaeI	Y!GGCCR	9	165; 468; 489; 629; 940; 2202; 2376; 2767; 2794
EagI	C!GGCCG	2	940; 2202
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	4	568; 1763; 2640; 2850
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	4	568; 1763; 2640; 2850
EciI	GGCGGANNNNNNNNNNNN!	4	1796; 2825; 4012; 4158
EciI	!NNNNNNNNNTCCGCC	3	1967; 1988; 2009
Ecl136II	GAG!CTC	1	36
EclXI	C!GGCCG	2	940; 2202
Eco24I	GRGCY!C	5	38; 75; 1487; 2661; 3371
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	754; 3285
Eco32I	GAT!ATC	1	810

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco47I	G!GWCC	3	891; 2812; 3257
Eco47III	AGC!GCT	1	14
Eco52I	C!GGCCG	2	940; 2202
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	349; 592; 2442; 2874
Eco57I	!NNNNNNNNNNNNNNNNCTTCAG	2	159; 3672
Eco72I	CAC!GTG	3	495; 678; 708
Eco81I	CC!TNAGG	2	1776; 3408
Eco88I	C!YCGRG	5	31; 74; 322; 682; 803
Eco91I	G!GTNACC	2	276; 423
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	5	816; 2025; 2118; 2728; 3133
Eco147I	AGG!CCT	1	2117
EcoHI	!CCSGG	6	73; 74; 2298; 2458; 3071; 3835
EcoICRI	GAG!CTC	1	36
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	7	285; 349; 532; 592; 2442; 2874; 3136
Eco57MI	!NNNNNNNNNNNNNNNCTYCAG	3	159; 3079; 3672
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	2	276; 423
Eco0109I	RG!GNCCY	1	3394
EcoRI	G!AATTC	1	47
EcoRII	!CCWGG	14	262; 272; 470; 794; 875; 1830; 1885; 1902; 2681; 3260; 3363; 4053; 4066; 4187
EcoRV	GAT!ATC	1	810
EcoT14I	C!CWWGG	5	816; 2025; 2118; 2728; 3133
EcoT22I	ATGCA!T	3	1868; 1940; 4271
EcoT38I	GRGCY!C	5	38; 75; 1487; 2661; 3371
Eco53kI	GAG!CTC	1	36
EgeI	GGC!GCC	3	108; 297; 2297
EheI	GGC!GCC	3	108; 297; 2297
ErhI	C!CWWGG	5	816; 2025; 2118; 2728; 3133
EsaBC3I	TC!GA	17	33; 46; 59; 390; 432; 805; 1446; 2137; 2410; 2566; 2590; 2626; 2788; 2979; 3024; 3279; 4117
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	18	99; 354; 699; 820; 867; 1726; 1866; 1938; 2029; 2170; 2515; 2701; 2732; 2758; 3114; 3498; 4218; 4269
Fail	YA!TR	43	97; 352; 697; 748; 818; 865; 958; 968; 1034; 1079; 1284; 1712; 1724; 1855; 1864; 1927; 1936; 1960; 2027; 2051; 2168; 2232; 2513; 2538; 2699; 2730; 2756; 2828; 3044; 3112; 3190; 3242; 3403; 3420; 3422; 3424; 3496; 3774; 3963; 4079; 4152; 4216; 4267
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	597; 2636
FalI	!NNNNNNNNAAGNNNNNNCTT	2	565; 2604
FaqI	GGGACNNNNNNNNNN!	3	2447; 2979; 3088
FaqI	!NNNNNNNNNNNNNGTCCC	4	1812; 1884; 1948; 3243
FatI	!CATG	18	95; 350; 695; 816; 863; 1722; 1862; 1934; 2025; 2166; 2511; 2697; 2728; 2754; 3110; 3494; 4214; 4265
FauI	CCCGCNNNN!	7	421; 833; 1618; 1973; 1994; 3190; 3322
FauI	!NNNNNNGCGGG	7	62; 877; 1549; 2419; 2956; 3094; 3241
FauNDI	CA!TATG	0	
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	58
FmuI	GGNC!C	11	74; 75; 322; 670; 894; 1406; 2815; 3260; 3306; 3364; 3397
Fnu4HI	GC!NGC	39	102; 105; 348; 441; 609; 663; 666; 783; 839; 859; 905; 943; 1073; 1592; 1614; 1628; 2066; 2205; 2257; 2268; 2358; 2363; 2400; 2441; 2528; 2534; 2770; 2866; 2907; 2921; 3035; 3374; 3389; 3600; 3806; 3809; 3874; 4017; 4172
FokI	GGATGNNNNNNNN!	10	175; 235; 499; 736; 859; 900; 2163; 2620; 2645; 3099
FokI	!NNNNNNNNNNNNNCATCC	2	166; 1969
FriOI	GRGCY!C	5	38; 75; 1487; 2661; 3371
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2398
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	10; 920; 951; 1145; 1563; 2119; 3134; 3468; 3721

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	145	32; 80; 95; 123; 145; 181; 196; 219; 240; 255; 269; 285; 303; 324; 368; 393; 426; 441; 484; 505; 540; 573; 594; 618; 645; 666; 682; 696; 718; 744; 766; 786; 804; 829; 875; 889; 907; 921; 956; 979; 1018; 1032; 1173; 1268; 1292; 1315; 1338; 1356; 1378; 1399; 1418; 1437; 1466; 1487; 1501; 1527; 1615; 1641; 1690; 1731; 1749; 1788; 1804; 1842; 1899; 1914; 1971; 1991; 2005; 2022; 2036; 2073; 2088; 2131; 2214; 2281; 2312; 2332; 2347; 2392; 2406; 2472; 2486; 2505; 2521; 2562; 2582; 2629; 2679; 2695; 2715; 2740; 2760; 2783; 2810; 2828; 2854; 2894; 2920; 2944; 3000; 3014; 3042; 3085; 3106; 3141; 3185; 3273; 3297; 3319; 3339; 3355; 3376; 3390; 3409; 3493; 3513; 3541; 3556; 3590; 3632; 3659; 3674; 3719; 3743; 3757; 3779; 3805; 3825; 3849; 3875; 3923; 3942; 3961; 3987; 4022; 4067; 4097; 4111; 4162; 4176; 4201; 4217; 4238; 4267
FspEI	!NNNNNNNNNNNNNNNGG	120	4; 46; 70; 89; 107; 127; 145; 170; 196; 230; 249; 278; 302; 344; 376; 406; 452; 473; 496; 531; 551; 590; 613; 644; 706; 742; 760; 781; 803; 823; 862; 906; 924; 967; 1067; 1136; 1166; 1244; 1293; 1315; 1343; 1379; 1424; 1453; 1489; 1508; 1536; 1556; 1619; 1642; 1750; 1782; 1800; 1829; 1872; 1901; 2012; 2041; 2084; 2105; 2133; 2166; 2186; 2211; 2238; 2263; 2285; 2313; 2339; 2360; 2411; 2432; 2450; 2498; 2534; 2590; 2615; 2639; 2668; 2691; 2715; 2741; 2763; 2782; 2807; 2847; 2883; 2948; 3033; 3057; 3086; 3120; 3141; 3161; 3206; 3233; 3252; 3285; 3337; 3368; 3395; 3447; 3545; 3616; 3661; 3722; 3787; 3821; 3847; 3865; 3901; 3971; 3994; 4016; 4040; 4073; 4121; 4156; 4174; 4231
Fsp4HI	GC!NGC	39	102; 105; 348; 441; 609; 663; 666; 783; 839; 859; 905; 943; 1073; 1592; 1614; 1628; 2066; 2205; 2257; 2268; 2358; 2363; 2400; 2441; 2528; 2534; 2770; 2866; 2907; 2921; 3035; 3374; 3389; 3600; 3806; 3809; 3874; 4017; 4172
GdiII	C!GGCCR	2	940; 2202
GdiII	Y!GGCCG	5	629; 940; 2202; 2767; 2794
GlaI	GC!GC	29	14; 108; 297; 376; 417; 579; 769; 771; 842; 1561; 1569; 1595; 1617; 1626; 1639; 1670; 2289; 2297; 2361; 2398; 2664; 2924; 3100; 3186; 3589; 3698; 3872; 3972; 4039
GluI	GC!NGC	39	102; 105; 348; 441; 609; 663; 666; 783; 839; 859; 905; 943; 1073; 1592; 1614; 1628; 2066; 2205; 2257; 2268; 2358; 2363; 2400; 2441; 2528; 2534; 2770; 2866; 2907; 2921; 3035; 3374; 3389; 3600; 3806; 3809; 3874; 4017; 4172
GsaI	CCCAG!C	3	1843; 1915; 3914
GsaI	GCTGG!G	2	502; 2804
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	285; 532; 3136
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3079
HaeI	WGG!CCW	9	167; 470; 491; 559; 2117; 2378; 3740; 4192; 4203
HaeII	RGCG!Y	8	16; 110; 299; 581; 1563; 1571; 2299; 3974
HaeIII	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 942; 1262; 1404; 2059; 2065; 2074; 2117; 2204; 2378; 2769; 2796; 3305; 3362; 3395; 3740; 4174; 4192; 4203
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	3	912; 971; 2492
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	3	878; 937; 2458
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	3	911; 970; 2491
HaeIV	!NNNNNNNGAYNNNNNNRTC	3	880; 939; 2460
HapII	C!CGG	22	19; 75; 85; 245; 605; 829; 1514; 2201; 2278; 2300; 2328; 2459; 2549; 2616; 2797; 3072; 3080; 3172; 3646; 3836; 3862; 4009
HgaI	GACGCNNNNN!	2	3006; 3085
HgaI	!NNNNNNNNNNNGCGTC	3	1629; 3524; 4102
HhaI	GCG!C	29	15; 109; 298; 377; 418; 580; 770; 772; 843; 1562; 1570; 1596; 1618; 1627; 1640; 1671; 2290; 2298; 2362; 2399; 2665; 2925; 3101; 3187; 3590; 3699; 3873; 3973; 4040
Hin1I	GR!CGYC	5	107; 296; 2296; 2998; 3077
Hin1II	CATG!	18	99; 354; 699; 820; 867; 1726; 1866; 1938; 2029; 2170; 2515; 2701; 2732; 2758; 3114; 3498; 4218; 4269
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	3	911; 970; 2491
Hin4I	!NNNNNNNNGABNNNNNNRTC	4	879; 938; 2459; 2489
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	4	911; 970; 2491; 2521
Hin4I	!NNNNNNNNGAYNNNNNVTC	3	879; 938; 2459
Hin6I	G!CGC	29	13; 107; 296; 375; 416; 578; 768; 770; 841; 1560; 1568; 1594; 1616; 1625; 1638; 1669; 2288; 2296; 2360; 2397; 2663; 2923; 3099; 3185; 3588; 3697; 3871; 3971; 4038

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HinP1I	G!CGC	29	13; 107; 296; 375; 416; 578; 768; 770; 841; 1560; 1568; 1594; 1616; 1625; 1638; 1669; 2288; 2296; 2360; 2397; 2663; 2923; 3099; 3185; 3588; 3697; 3871; 3971; 4038
HincII	GTY!RAC	2	59; 1059
HindII	GTY!RAC	2	59; 1059
HindIII	A!AGCTT	1	40
HinfI	G!ANTC	13	22; 507; 947; 1339; 1361; 1771; 2781; 2915; 2967; 3025; 3062; 3844; 4240
HpaI	GTT!AAC	1	1059
HpaII	C!CGG	22	19; 75; 85; 245; 605; 829; 1514; 2201; 2278; 2300; 2328; 2459; 2549; 2616; 2797; 3072; 3080; 3172; 3646; 3836; 3862; 4009
HphI	GGTGANNNNNNNN!	4	288; 435; 3367; 3483
HphI	!NNNNNNNTCACC	6	375; 516; 727; 889; 1413; 2474
Hpy8I	GTN!NAC	8	59; 447; 675; 1059; 1343; 1360; 1415; 3902
Hpy99I	CGWCG!	8	63; 2386; 2414; 2708; 2723; 3000; 3385; 4118
Hpy166II	GTN!NAC	8	59; 447; 675; 1059; 1343; 1360; 1415; 3902
Hpy188I	TCN!GA	11	27; 1470; 2079; 2263; 2607; 2960; 3061; 3540; 3674; 4027; 4105
Hpy188III	TC!NNGA	28	31; 408; 432; 480; 511; 585; 803; 805; 951; 1723; 1775; 2088; 2141; 2314; 2630; 2639; 2722; 2778; 2822; 2912; 2945; 3014; 3495; 3569; 3652; 3750; 3848; 3982
HpyAV	CCTTCNNNNNN!	7	183; 396; 438; 591; 2941; 3048; 3727
HpyAV	!NNNNNGAAGG	9	324; 477; 1529; 2424; 3153; 3169; 3352; 3669; 3979
HpyCH4III	ACN!GT	11	63; 765; 895; 1387; 2676; 2792; 2900; 3223; 3714; 4184; 4255
HpyCH4IV	A!CGT	13	137; 365; 494; 677; 707; 1356; 1368; 1411; 1521; 2412; 2599; 3380; 3513
HpyCH4V	TG!CA	22	54; 239; 350; 369; 675; 904; 1045; 1072; 1140; 1857; 1866; 1929; 1938; 2053; 2129; 2188; 2347; 2522; 2536; 3606; 3902; 4269
HpyF3I	C!TNAG	8	24; 715; 1776; 2078; 2959; 3408; 3531; 3940
HpyF10VI	GCNNNNN!NNGC	27	191; 206; 245; 302; 575; 614; 838; 910; 1523; 1553; 1580; 1622; 1863; 1935; 1986; 2065; 2287; 2371; 2394; 2533; 2656; 2739; 3006; 3193; 3397; 3596; 4168
Hsp92I	GR!CGYC	5	107; 296; 2296; 2998; 3077
Hsp92II	CATG!	18	99; 354; 699; 820; 867; 1726; 1866; 1938; 2029; 2170; 2515; 2701; 2732; 2758; 3114; 3498; 4218; 4269
HspAI	G!CGC	29	13; 107; 296; 375; 416; 578; 768; 770; 841; 1560; 1568; 1594; 1616; 1625; 1638; 1669; 2288; 2296; 2360; 2397; 2663; 2923; 3099; 3185; 3588; 3697; 3871; 3971; 4038
KasI	G!GCGCC	3	106; 295; 2295
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	67
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	2	70; 186
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1059
Kzo9I	!GATC	28	27; 78; 128; 552; 587; 599; 633; 732; 799; 923; 936; 953; 2133; 2137; 2156; 2467; 2545; 2626; 2635; 2713; 3089; 3105; 3464; 3476; 3554; 3562; 3573; 3648
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	568; 2640; 2850
LpnI	RGCI!GCY	8	14; 108; 297; 579; 1561; 1569; 2297; 3972
LpnPI	CCDGNNNNNNNNN!	63	32; 88; 124; 219; 241; 258; 276; 298; 313; 484; 550; 583; 618; 655; 766; 808; 842; 889; 914; 1033; 1338; 1527; 1750; 1788; 1804; 1844; 1899; 1916; 2016; 2101; 2214; 2291; 2313; 2336; 2472; 2486; 2505; 2562; 2629; 2679; 2695; 2752; 2810; 3019; 3085; 3109; 3185; 3274; 3377; 3410; 3641; 3659; 3805; 3825; 3849; 3875; 3924; 4022; 4067; 4097; 4176; 4201; 4238
LpnPI	!NNNNNNNNNNNNNCHGG	53	4; 60; 230; 249; 355; 457; 484; 531; 590; 781; 814; 862; 1379; 1499; 1556; 1619; 1817; 1829; 1889; 1901; 2133; 2178; 2221; 2263; 2285; 2313; 2360; 2422; 2444; 2534; 2601; 2624; 2668; 2763; 2782; 2807; 2956; 3057; 3100; 3157; 3247; 3350; 3377; 3395; 3631; 3668; 3821; 3847; 3987; 4005; 4040; 4121; 4174
Lsp1109I	GCAGCNNNNNNNN!	10	113; 452; 620; 916; 1084; 2369; 2411; 2932; 3385; 3885
Lsp1109I	!NNNNNNNNNNNNGCTGC	8	334; 845; 1578; 2243; 2427; 2520; 3586; 3792
LweI	GCATCNNNNN!	7	188; 1112; 1875; 1947; 2595; 2659; 2934

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LweI	!NNNNNNNNNGATGC	6	192; 213; 2254; 2509; 2725; 4117
MabI	A!CCWGGT	1	1885
MaeI	C!TAG	9	10; 920; 951; 1145; 1563; 2119; 3134; 3468; 3721
MaeII	A!CGT	13	137; 365; 494; 677; 707; 1356; 1368; 1411; 1521; 2412; 2599; 3380; 3513
MaeIII	!GTNAC	13	276; 423; 726; 895; 1084; 1585; 1597; 2416; 2722; 3412; 3678; 3794; 3857
MalI	GA!TC	28	29; 80; 130; 554; 589; 601; 635; 734; 801; 925; 938; 955; 2135; 2139; 2158; 2469; 2547; 2628; 2637; 2715; 3091; 3107; 3466; 3478; 3556; 3564; 3575; 3650
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1720; 2909
MbiII	GAG!CGG	3	884; 1556; 2963
MboI	!GATC	28	27; 78; 128; 552; 587; 599; 633; 732; 799; 923; 936; 953; 2133; 2137; 2156; 2467; 2545; 2626; 2635; 2713; 3089; 3105; 3464; 3476; 3554; 3562; 3573; 3648
MboII	GAAGANNNNNNNN!	6	585; 1552; 1780; 2657; 2867; 3486
MboII	!NNNNNNNTCTTC	4	2947; 3114; 3314; 3557
McaTI	GCGC!GC	1	771
MfeI	C!AATTG	1	1046
MflI	R!GATCY	12	27; 78; 128; 587; 799; 2467; 2713; 3105; 3464; 3476; 3562; 3573
MhII	GDGCH!C	16	38; 75; 257; 263; 271; 677; 683; 876; 1487; 2242; 2335; 2409; 2599; 2661; 3371; 3904
MisI	TGG!CCA	4	167; 470; 491; 2378
MluI	A!CGCGT	0	
MluNI	TGG!CCA	4	167; 470; 491; 2378
MlyI	GAGTCNNNNN!	2	1348; 1780
MlyI	!NNNNNGACTC	5	16; 941; 1355; 2961; 3838
Mly113I	GG!CGCC	3	107; 296; 2296
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1389
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	3821; 4005
MnII	CCTCNNNNNNN!	7	1015; 2079; 2897; 3103; 3417; 3787; 4111
MnII	!NNNNNNGAGG	15	144; 384; 414; 975; 1440; 1771; 2049; 2092; 2107; 2147; 2211; 2347; 2704; 3134; 4037
Mph1103I	ATGCA!T	3	1868; 1940; 4271
MreI	CG!CCGGCG	1	828
MroI	T!CCGGA	0	
MroNI	G!CCGGC	5	604; 828; 1513; 2796; 3079
MroXI	GAANN!NNTTC	1	334
MscI	TGG!CCA	4	167; 470; 491; 2378
MseI	T!TAA	14	997; 1058; 1179; 1200; 1211; 1223; 1234; 1251; 1349; 1620; 3439; 3453; 3458; 3510
MslI	CAYNN!NNRTG	3	274; 643; 2733
MspI	C!CGG	22	19; 75; 85; 245; 605; 829; 1514; 2201; 2278; 2300; 2328; 2459; 2549; 2616; 2797; 3072; 3080; 3172; 3646; 3836; 3862; 4009
Msp20I	TGG!CCA	4	167; 470; 491; 2378
MspA1I	CMG!CKG	7	69; 104; 185; 1794; 2402; 3631; 3876
MspCI	C!TTAAG	1	1178

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	222	22; 36; 49; 80; 97; 123; 138; 181; 196; 218; 239; 257; 270; 285; 298; 311; 324; 340; 354; 367; 382; 402; 420; 444; 466; 483; 505; 523; 542; 558; 572; 597; 617; 639; 653; 667; 682; 695; 708; 727; 743; 765; 781; 796; 815; 829; 854; 867; 881; 897; 913; 932; 956; 969; 984; 1003; 1020; 1033; 1074; 1088; 1101; 1119; 1157; 1172; 1190; 1231; 1255; 1275; 1293; 1314; 1337; 1369; 1384; 1406; 1424; 1437; 1458; 1475; 1488; 1501; 1517; 1530; 1560; 1575; 1600; 1618; 1631; 1646; 1670; 1684; 1708; 1733; 1749; 1787; 1803; 1842; 1856; 1870; 1898; 1914; 1928; 1942; 1971; 1984; 2005; 2014; 2036; 2066; 2082; 2100; 2130; 2153; 2177; 2201; 2220; 2248; 2274; 2290; 2303; 2326; 2340; 2360; 2373; 2387; 2406; 2420; 2433; 2449; 2464; 2477; 2493; 2508; 2524; 2549; 2568; 2584; 2597; 2610; 2628; 2642; 2656; 2672; 2694; 2710; 2729; 2751; 2767; 2790; 2809; 2823; 2839; 2853; 2873; 2889; 2902; 2924; 2957; 2971; 2991; 3004; 3018; 3072; 3085; 3108; 3121; 3140; 3157; 3184; 3220; 3253; 3272; 3297; 3318; 3345; 3358; 3375; 3389; 3404; 3420; 3480; 3505; 3521; 3543; 3556; 3570; 3601; 3615; 3640; 3658; 3673; 3686; 3705; 3718; 3733; 3762; 3781; 3799; 3824; 3839; 3858; 3874; 3893; 3911; 3927; 3941; 3960; 3987; 4010; 4032; 4051; 4066; 4079; 4096; 4116; 4143; 4156; 4175; 4200; 4223; 4237; 4250; 4267
MspJI	!NNNNNNNNNNNNNYNG	183	5; 25; 54; 71; 97; 122; 145; 162; 182; 202; 222; 242; 259; 278; 298; 328; 350; 374; 394; 416; 440; 457; 479; 496; 523; 541; 571; 591; 613; 645; 662; 682; 702; 725; 751; 772; 789; 811; 830; 850; 871; 894; 916; 937; 962; 1006; 1048; 1131; 1166; 1193; 1216; 1245; 1289; 1311; 1343; 1379; 1396; 1417; 1454; 1474; 1491; 1508; 1543; 1561; 1579; 1596; 1620; 1642; 1669; 1697; 1723; 1761; 1782; 1799; 1817; 1840; 1861; 1889; 1912; 1933; 1951; 1972; 1989; 2012; 2036; 2056; 2074; 2096; 2127; 2149; 2175; 2194; 2211; 2239; 2258; 2277; 2295; 2313; 2334; 2356; 2380; 2413; 2433; 2451; 2472; 2498; 2525; 2542; 2559; 2576; 2602; 2624; 2646; 2664; 2684; 2703; 2725; 2763; 2783; 2807; 2827; 2847; 2874; 2898; 2931; 2950; 2978; 3000; 3029; 3057; 3082; 3101; 3120; 3141; 3158; 3175; 3206; 3233; 3253; 3276; 3296; 3333; 3350; 3369; 3395; 3415; 3454; 3481; 3500; 3518; 3555; 3573; 3614; 3632; 3658; 3675; 3707; 3736; 3764; 3785; 3808; 3827; 3848; 3866; 3883; 3901; 3927; 3948; 3968; 3988; 4006; 4027; 4053; 4070; 4089; 4108; 4137; 4156; 4174; 4193; 4211; 4229; 4252
MspR9I	CC!NGG	20	75; 76; 264; 274; 472; 796; 877; 1832; 1887; 1904; 2300; 2460; 2683; 3073; 3262; 3365; 3837; 4055; 4068; 4189
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1046
MvaI	CC!WGG	14	264; 274; 472; 796; 877; 1832; 1887; 1904; 2683; 3262; 3365; 4055; 4068; 4189
Mva1269I	GAATGCN!	1	1047
Mva1269I	G!CATTC	1	1140
MvnI	CG!CG	20	69; 185; 416; 455; 740; 770; 945; 1220; 1596; 1616; 1640; 1671; 2362; 2663; 3101; 3185; 3248; 3317; 3590; 4171
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	27	191; 206; 245; 302; 575; 614; 838; 910; 1523; 1553; 1580; 1622; 1863; 1935; 1986; 2065; 2287; 2371; 2394; 2533; 2656; 2739; 3006; 3193; 3397; 3596; 4168
NaeI	GCC!GGC	5	606; 830; 1515; 2798; 3081
NarI	GG!CGCC	3	107; 296; 2296
NciI	CC!SGG	6	75; 76; 2300; 2460; 3073; 3837
NcoI	C!CATGG	3	816; 2025; 2728
NdeI	CA!TATG	0	
NdeII	!GATC	28	27; 78; 128; 552; 587; 599; 633; 732; 799; 923; 936; 953; 2133; 2137; 2156; 2467; 2545; 2626; 2635; 2713; 3089; 3105; 3464; 3476; 3554; 3562; 3573; 3648
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	302
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	266
NgoMIV	G!CCGGC	5	604; 828; 1513; 2796; 3079
NheI	G!CTAGC	0	
NlaIII	CATG!	18	99; 354; 699; 820; 867; 1726; 1866; 1938; 2029; 2170; 2515; 2701; 2732; 2758; 3114; 3498; 4218; 4269

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NlaIV	GGN!NCC	20	65; 73; 80; 108; 297; 321; 669; 1451; 1472; 1484; 1675; 1836; 1908; 2297; 2332; 3180; 3259; 3304; 4147; 4186
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	405; 1128; 1443; 3035
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	1	4107
Nli3877I	CYCGR!G	5	35; 78; 326; 686; 807
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	444; 2085; 2521
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	2050
NmeDI	RCCGGYNNNNNNNN!	8	96; 256; 616; 840; 1525; 2627; 2808; 3091
NmeDI	!NNNNNNNNNNNNRCCGGY	8	71; 231; 591; 815; 1500; 2602; 2783; 3066
NmuCI	!GTSAC	7	276; 423; 726; 895; 1585; 2416; 2722
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2398
NsiI	ATGCA!T	3	1868; 1940; 4271
NspI	RCATG!Y	5	354; 1866; 1938; 2701; 4218
NspV	TT!CGAA	2	45; 2978
OliI	CACNN!NNGTG	1	274
PabI	GTA!C	6	66; 317; 449; 542; 689; 2603
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	354; 1866; 1938; 2701
PaeR7I	C!TCGAG	2	31; 803
PagI	T!CATGA	2	1722; 3494
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3261; 3364
PauI	G!CGCGC	1	768
PceI	AGG!CCT	1	2117
PciI	A!CATGT	1	4214
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	568; 2640; 2850
PcsI	WCGNNNN!NNNCGW	6	2590; 2667; 2910; 2984; 3377; 3895
PctI	GAATGCN!	1	1047
PctI	G!CATTC	1	1140
PdiI	GCC!GGC	5	606; 830; 1515; 2798; 3081
PdmI	GAANN!NNTTC	1	334
PfeI	G!AWTC	6	507; 2781; 2915; 3025; 3062; 4240
Pfl23II	C!GTACG	0	
PfifI	GACN!NNGTC	1	2414
PfimiI	CCANNNN!NTGG	1	498
PfoI	T!CCNGGA	1	3071
PhoI	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 942; 1262; 1404; 2059; 2065; 2074; 2117; 2204; 2378; 2769; 2796; 3305; 3362; 3395; 3740; 4174; 4192; 4203
PinAI	A!CCGGT	1	84
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	2677
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	2242; 2497
PleI	GAGTCNNNN!	2	1347; 1779
PleI	!NNNNNGACTC	5	16; 941; 1355; 2961; 3838
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	3	495; 678; 708
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	3	495; 678; 708
PpiI	GAACNNNNNNCTCNNNNNNNNNNNN!	1	1378
PpiI	!NNNNNNNNNGAGNNNNNNNGTTC	1	3508
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3540
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1346
PpsI	GAGTCNNNN!	2	1347; 1779
PpsI	!NNNNNGACTC	5	16; 941; 1355; 2961; 3838
Ppu10I	A!TGCAT	3	1864; 1936; 4267
Ppu21I	YAC!GTR	7	138; 366; 495; 678; 708; 1412; 2600
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4214
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	2	1079; 1284
Psp03I	GGWC!C	3	894; 2815; 3260

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	14	262; 272; 470; 794; 875; 1830; 1885; 1902; 2681; 3260; 3363; 4053; 4066; 4187
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	38
PspCI	CAC!GTG	3	495; 678; 708
PspEI	G!GTNACC	2	276; 423
PspGI	!CCWGG	14	262; 272; 470; 794; 875; 1830; 1885; 1902; 2681; 3260; 3363; 4053; 4066; 4187
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	20	65; 73; 80; 108; 297; 321; 669; 1451; 1472; 1484; 1675; 1836; 1908; 2297; 2332; 3180; 3259; 3304; 4147; 4186
PspOMI	G!GGCCC	1	71
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	3	323; 2026; 3025
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2428
PspPI	G!GNCC	11	71; 72; 319; 667; 891; 1403; 2812; 3257; 3303; 3361; 3394
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	1849; 1921; 3427
PspPRI	!NNNNNNNNNNNNNNCTGRGG	3	532; 1762; 2957
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3397
PstI	CTGCA!G	2	56; 906
PstNI	CAGNN!CTG	2	3397; 3805
PsuI	R!GATCY	12	27; 78; 128; 587; 799; 2467; 2713; 3105; 3464; 3476; 3562; 3573
PsyI	GACN!NNGTC	1	2414
PteI	G!CGCGC	1	768
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	1794; 2402
RcaI	T!CATGA	2	1722; 3494
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	2811
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	1025
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	65; 316; 448; 541; 688; 2602
RsaNI	G!TAC	6	64; 315; 447; 540; 687; 2601
RseI	CAYNN!NNRTG	3	274; 643; 2733
RsrII	CG!GWCCG	1	2812
Rsr2I	CG!GWCCG	1	2812
SacI	GAGCT!C	1	38
SacII	CCGC!GG	2	70; 186
SalI	G!TCGAC	1	57
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	3	568; 2640; 2850
SaqAI	T!TAA	14	997; 1058; 1179; 1200; 1211; 1223; 1234; 1251; 1349; 1620; 3439; 3453; 3458; 3510
SatI	GC!NGC	39	102; 105; 348; 441; 609; 663; 666; 783; 839; 859; 905; 943; 1073; 1592; 1614; 1628; 2066; 2205; 2257; 2268; 2358; 2363; 2400; 2441; 2528; 2534; 2770; 2866; 2907; 2921; 3035; 3374; 3389; 3600; 3806; 3809; 3874; 4017; 4172
Sau96I	G!GNCC	11	71; 72; 319; 667; 891; 1403; 2812; 3257; 3303; 3361; 3394
Sau3AI	!GATC	28	27; 78; 128; 552; 587; 599; 633; 732; 799; 923; 936; 953; 2133; 2137; 2156; 2467; 2545; 2626; 2635; 2713; 3089; 3105; 3464; 3476; 3554; 3562; 3573; 3648
SbfI	CCTGCA!GG	0	



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1348; 1780
SchI	!NNNNNGACTC	5	16; 941; 1355; 2961; 3838
SciI	CTC!GAG	2	33; 805
ScrFI	CC!NGG	20	75; 76; 264; 274; 472; 796; 877; 1832; 1887; 1904; 2300; 2460; 2683; 3073; 3262; 3365; 3837; 4055; 4068; 4189
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	6	396; 903; 1874; 1946; 2115; 4057
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	894; 2451; 2936
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNNRTGA	0	
SduI	GDGCH!C	16	38; 75; 257; 263; 271; 677; 683; 876; 1487; 2242; 2335; 2409; 2599; 2661; 3371; 3904
SelI	!CGCG	20	67; 183; 414; 453; 738; 768; 943; 1218; 1594; 1614; 1638; 1669; 2360; 2661; 3099; 3183; 3246; 3315; 3588; 4169
SetI	ASST!	60	38; 44; 140; 175; 221; 292; 329; 349; 368; 388; 425; 430; 464; 497; 680; 703; 710; 716; 793; 797; 986; 1007; 1016; 1028; 1077; 1244; 1359; 1371; 1414; 1451; 1501; 1524; 1648; 1796; 1891; 2084; 2197; 2325; 2404; 2415; 2487; 2558; 2602; 2862; 3008; 3052; 3383; 3414; 3473; 3516; 3659; 3680; 3779; 3916; 3931; 3950; 3962; 4006; 4052; 4103
SexAI	A!CCWGGT	1	1885
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	188; 1112; 1875; 1947; 2595; 2659; 2934
SfaNI	!NNNNNNNNNGATGC	6	192; 213; 2254; 2509; 2725; 4117
SfcI	C!TRYAG	5	52; 902; 1631; 3758; 3949
SfiI	GGCCNNNN!NGGCC	1	2071
SfoI	GGC!GCC	3	108; 297; 2297
Sfr274I	C!TCGAG	2	31; 803
Sfr303I	CCGC!GG	2	70; 186
SfuI	TT!CGAA	2	45; 2978
SgeI	CNNGNNNNNNNNNN!	181	6; 22; 43; 80; 97; 123; 138; 196; 218; 240; 257; 270; 285; 312; 334; 354; 367; 382; 402; 420; 444; 466; 483; 505; 523; 549; 568; 582; 597; 617; 639; 654; 682; 696; 718; 732; 751; 765; 781; 798; 815; 829; 856; 876; 889; 913; 932; 956; 1003; 1032; 1074; 1157; 1231; 1315; 1337; 1369; 1406; 1424; 1443; 1458; 1500; 1517; 1534; 1569; 1583; 1600; 1622; 1646; 1670; 1735; 1749; 1787; 1803; 1843; 1856; 1875; 1898; 1915; 1928; 1947; 1977; 1998; 2015; 2038; 2073; 2100; 2131; 2153; 2179; 2201; 2220; 2248; 2284; 2303; 2326; 2340; 2360; 2373; 2387; 2406; 2420; 2439; 2471; 2485; 2498; 2524; 2555; 2568; 2585; 2602; 2616; 2633; 2651; 2666; 2694; 2710; 2729; 2751; 2767; 2790; 2809; 2834; 2853; 2873; 2900; 2924; 2957; 2976; 3004; 3018; 3084; 3108; 3123; 3146; 3167; 3184; 3232; 3259; 3273; 3302; 3326; 3359; 3376; 3396; 3409; 3422; 3480; 3507; 3526; 3556; 3581; 3601; 3615; 3640; 3658; 3695; 3733; 3762; 3790; 3804; 3824; 3839; 3860; 3874; 3893; 3911; 3927; 3967; 3987; 4014; 4032; 4053; 4066; 4079; 4096; 4120; 4143; 4175; 4200; 4227; 4249
SgeI	!NNNNNNNNNNNNNCNNG	157	5; 25; 54; 71; 97; 124; 170; 192; 214; 231; 249; 271; 298; 328; 352; 376; 394; 418; 440; 457; 479; 497; 523; 542; 571; 591; 613; 656; 682; 706; 725; 751; 772; 789; 811; 830; 850; 871; 894; 930; 977; 1006; 1048; 1131; 1205; 1289; 1311; 1343; 1380; 1398; 1417; 1474; 1491; 1508; 1543; 1561; 1581; 1601; 1620; 1644; 1709; 1761; 1817; 1849; 1872; 1889; 1921; 1951; 1972; 1989; 2012; 2047; 2074; 2105; 2127; 2153; 2175; 2194; 2222; 2258; 2277; 2300; 2321; 2339; 2356; 2380; 2413; 2445; 2472; 2498; 2529; 2559; 2576; 2602; 2625; 2646; 2668; 2688; 2708; 2725; 2764; 2783; 2808; 2827; 2847; 2874; 2898; 2931; 2950; 2978; 3000; 3058; 3082; 3101; 3120; 3141; 3158; 3206; 3233; 3253; 3276; 3300; 3333; 3350; 3370; 3396; 3454; 3481; 3500; 3530; 3555; 3575; 3614; 3632; 3669; 3707; 3736; 3764; 3785; 3813; 3834; 3867; 3885; 3941; 3961; 3988; 4006; 4027; 4053; 4070; 4094; 4117; 4149; 4174; 4201; 4223; 4252
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	2	244; 828
SgrBI	CCGC!GG	2	70; 186
SgrDI	CG!TCGACG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1443; 3230; 4023
SimI	!GACCC	4	410; 2724; 3292; 3540
SinI	G!GWCC	3	891; 2812; 3257
SlaI	C!TCGAG	2	31; 803
SmaI	CCC!GGG	1	76
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	3	274; 643; 2733
SmlI	C!TYRAG	8	31; 37; 803; 1178; 2687; 3569; 3846; 4108
SmoI	C!TYRAG	8	31; 37; 803; 1178; 2687; 3569; 3846; 4108
SmuI	CCCGCNNNN!	7	421; 833; 1618; 1973; 1994; 3190; 3322
SmuI	!NNNNNNGCGGG	7	62; 877; 1549; 2419; 2956; 3094; 3241
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	354; 1866; 1938; 2701
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	12	47; 402; 519; 1046; 1110; 1188; 1214; 1225; 1872; 1944; 2036; 3454
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2117
SsiI	C!CGC	31	67; 183; 414; 738; 783; 826; 943; 1611; 1614; 1628; 1718; 1966; 1978; 1987; 1999; 2009; 2020; 2066; 2205; 2268; 2770; 2815; 2881; 2907; 3032; 3035; 3183; 3315; 3622; 3766; 4262
SsiI	G!CGG	28	69; 104; 185; 662; 665; 832; 838; 884; 1556; 1583; 1671; 1781; 2362; 2426; 2527; 2530; 2810; 2865; 2963; 3101; 3248; 3388; 3631; 3876; 3997; 4016; 4143; 4171
SspI	AAT!ATT	2	1204; 1757
SspDI	G!GCGCC	3	106; 295; 2295
SspD5I	GGTGANNNNNNNN!	4	288; 435; 3367; 3483
SspD5I	!NNNNNNNNTCACC	6	374; 515; 726; 888; 1412; 2473
SstI	GAGCT!C	1	38
SstII	CCG!GG	2	70; 186
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	20	81; 263; 329; 362; 420; 677; 689; 832; 1495; 1617; 1972; 1993; 2306; 2709; 2848; 2919; 3189; 3321; 3551; 3989
Sth132I	!NNNNNNNNCGGG	17	61; 876; 1496; 1548; 1649; 2376; 2418; 2451; 2955; 3064; 3093; 3240; 3344; 3375; 3828; 3872; 4080
Sth302II	CC!GG	22	20; 76; 86; 246; 606; 830; 1515; 2202; 2279; 2301; 2329; 2460; 2550; 2617; 2798; 3073; 3081; 3173; 3647; 3837; 3863; 4010
StrI	C!TCGAG	2	31; 803
StsI	GGATGNNNNNNNNNN!	10	176; 236; 500; 737; 860; 901; 2164; 2621; 2646; 3100
StsI	!NNNNNNNNNNNNNNCATCC	2	165; 1968
StuI	AGG!CCT	1	2117
StyI	C!CWWGG	5	816; 2025; 2118; 2728; 3133
StyD4I	!CCNGG	20	73; 74; 262; 272; 470; 794; 875; 1830; 1885; 1902; 2298; 2458; 2681; 3071; 3260; 3363; 3835; 4053; 4066; 4187
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	11	63; 765; 895; 1387; 2676; 2792; 2900; 3223; 3714; 4184; 4255
TaiI	ACGT!	13	140; 368; 497; 680; 710; 1359; 1371; 1414; 1524; 2415; 2602; 3383; 3516
TaqI	T!CGA	17	32; 45; 58; 389; 431; 804; 1445; 2136; 2409; 2565; 2589; 2625; 2787; 2978; 3023; 3278; 4116
TaqII	GACCGANNNNNNNNNN!	4	745; 1316; 2333; 3001
TaqII	!NNNNNNNNTCGGTC	1	3245
TaqII	CACCCANNNNNNNNNN!	1	655
TaqII	!NNNNNNNNTGGGTG	2	2200; 2792
TasI	!AATT	12	47; 402; 519; 1046; 1110; 1188; 1214; 1225; 1872; 1944; 2036; 3454
TatI	W!GTACW	2	446; 539
TauI	GCSG!C	21	107; 665; 668; 785; 841; 945; 1616; 1630; 2068; 2207; 2270; 2365; 2530; 2533; 2772; 2868; 2909; 3037; 3391; 4019; 4174
TfiI	G!AWTC	6	507; 2781; 2915; 3025; 3062; 4240
ThiI	C!TCGAG	2	31; 803

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TruI	T!TAA	14	997; 1058; 1179; 1200; 1211; 1223; 1234; 1251; 1349; 1620; 3439; 3453; 3458; 3510
Tru9I	T!TAA	14	997; 1058; 1179; 1200; 1211; 1223; 1234; 1251; 1349; 1620; 3439; 3453; 3458; 3510
TscAI	CASTGNN!	7	307; 538; 1142; 2425; 3535; 3806; 3819
TseI	G!CWGC	19	101; 347; 440; 608; 858; 904; 1072; 1591; 2256; 2357; 2399; 2440; 2533; 2920; 3373; 3599; 3805; 3808; 3873
TsoI	TARCCANNNNNNNNNN!	2	1268; 1615
TsoI	!NNNNNNNNNTGGYTA	3	350; 1073; 2825
Tsp45I	!GTSAC	7	276; 423; 726; 895; 1585; 2416; 2722
Tsp509I	!AATT	12	47; 402; 519; 1046; 1110; 1188; 1214; 1225; 1872; 1944; 2036; 3454
TspDTI	ATGAANNNNNNNNNN!	4	661; 1054; 2355; 3059
TspDTI	!NNNNNNNNNTTCAT	5	222; 612; 2773; 3229; 3436
TspEI	!AATT	12	47; 402; 519; 1046; 1110; 1188; 1214; 1225; 1872; 1944; 2036; 3454
TspGWI	ACGGANNNNNNNNNN!	2	772; 3171
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	74
TspRI	CASTGNN!	7	307; 538; 1142; 2425; 3535; 3806; 3819
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2414
Tth111II	CAARCANNNNNNNNNN!	1	3623
Tth111III	!NNNNNNNTGYTTG	3	2731; 3591; 3630
UnbI	!GGNCC	11	70; 71; 318; 666; 890; 1402; 2811; 3256; 3302; 3360; 3393
Van9I	CCANNN!NTGG	1	498
Vha464I	C!TTAAG	1	1178
VneI	G!TGCAC	2	673; 3900
VpaK11AI	!GGWCC	3	890; 2811; 3256
VpaK11BI	G!GWCC	3	891; 2812; 3257
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	47; 1110; 1214; 1225
XbaI	T!CTAGA	1	950
XceI	RCATG!Y	5	354; 1866; 1938; 2701; 4218
XcmI	CCANNNN!NNNTGG	0	
XhoI	C!TCGAG	2	31; 803
XhoII	R!GATCY	12	27; 78; 128; 587; 799; 2467; 2713; 3105; 3464; 3476; 3562; 3573
XmaI	C!CCGGG	1	74
XmaJI	C!CTAGG	2	2118; 3133
XmiI	GT!MKAC	1	58
XmnI	GAANN!NNTTC	1	334
XspI	C!TAG	9	10; 920; 951; 1145; 1563; 2119; 3134; 3468; 3721
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	1868; 1940; 4271