

pPhi-Yellow-PRL vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	1003; 1208
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1291; 2247; 4036
AatI	AGG!CCT	1	2041
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	58
AccII	CG!CG	20	69; 185; 416; 455; 740; 770; 869; 1144; 1520; 1540; 1564; 1595; 2286; 2587; 3025; 3109; 3172; 3241; 3514; 4095
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2322
Acc36I	ACCTGCNNNN!	2	2488; 2938
Acc36I	!NNNNNNNNGCAGGT	1	2107
Acc65I	G!GTACC	1	63
AccB1I	G!GYRCC	6	63; 106; 295; 1373; 2219; 2254
AccB7I	CCANNNN!NTGG	1	498
AccBSI	CCG!CTC	2	1644; 2833
AccBSI	GAG!CGG	2	1480; 2887
AceIII	CAGCTCNNNNNNN!	1	1176
AceIII	!NNNNNNNNNNGAGCTG	2	313; 333
AciI	C!CGC	30	67; 183; 414; 738; 783; 867; 1535; 1538; 1552; 1642; 1890; 1902; 1911; 1923; 1933; 1944; 1990; 2129; 2192; 2694; 2739; 2805; 2831; 2956; 2959; 3107; 3239; 3546; 3690; 4186
AciI	G!CGG	25	69; 104; 185; 662; 665; 1480; 1507; 1595; 1705; 2286; 2350; 2451; 2454; 2734; 2789; 2887; 3025; 3172; 3312; 3555; 3800; 3921; 3940; 4067; 4095
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	8	86; 2088; 2399; 2645; 3037; 3396; 3494; 3580
AclWI	!NNNNNGATCC	7	73; 123; 830; 2464; 3008; 3395; 3492
AcoI	Y!GGCCR	9	165; 468; 489; 629; 864; 2126; 2300; 2691; 2718
AcsI	R!AATTY	4	47; 1034; 1138; 1149
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	5	349; 592; 775; 2366; 2798
AcuI	!NNNNNNNNNNNNNCTTCAG	2	159; 3596
AcvI	CAC!GTG	3	495; 678; 708
AcyI	GR!CGYC	5	107; 296; 2220; 2922; 3001
AdeI	CACNNN!GTG	1	1336
AfaI	GT!AC	6	65; 316; 448; 541; 688; 2526
AfeI	AGC!GCT	1	14
AfiI	CCNNNNN!NNGG	21	138; 189; 263; 420; 498; 661; 1232; 1558; 1950; 2201; 2745; 3026; 3058; 3190; 3225; 3275; 3307; 3660; 3939; 4105; 4123
AfIII	C!TTAAG	1	1102
AfIII	A!CRYGT	1	4138
AgeI	A!CCGGT	1	84
AgsI	TTS!AA	9	408; 480; 519; 585; 1631; 1675; 1685; 2098; 3674
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	12	262; 272; 470; 1754; 1809; 1826; 2605; 3184; 3287; 3977; 3990; 4111
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	274

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	1794; 1866
AlfI	!NNNNNNNNNNNGCANNNNNNTGC	2	1760; 1832
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1302
AloI	!NNNNNNNNGGANNNNNNNGTTC	1	214
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	1	246
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1270
AluI	AG!CT	21	36; 42; 327; 347; 462; 701; 714; 803; 812; 817; 999; 1166; 1423; 1718; 2006; 2326; 2784; 3581; 3838; 3884; 3974
AluBI	AG!CT	21	36; 42; 327; 347; 462; 701; 714; 803; 812; 817; 999; 1166; 1423; 1718; 2006; 2326; 2784; 3581; 3838; 3884; 3974
AlwI	GGATCNNNN!	8	86; 2088; 2399; 2645; 3037; 3396; 3494; 3580
AlwI	!NNNNNGATCC	7	73; 123; 830; 2464; 3008; 3395; 3492
Alw21I	GWGCW!C	6	38; 271; 677; 2333; 2523; 3828
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	5	754; 1644; 2062; 3081; 3209
Alw44I	G!TGCAC	2	673; 3824
AlwNI	CAGNNN!CTG	2	3321; 3729
Ama87I	C!YCGRG	4	31; 74; 322; 682
Aor13HI	T!CCGGA	0	
Aor51HI	AG!GCT	1	14
ApaI	GGGCC!C	1	75
ApaBI	GCANNNNN!TGC	3	1788; 1860; 3322
ApaLI	G!TGCAC	2	673; 3824
ApeKI	G!CWGC	17	101; 347; 440; 608; 996; 1515; 2180; 2281; 2323; 2364; 2457; 2844; 3297; 3523; 3729; 3732; 3797
ApoI	R!AATTY	4	47; 1034; 1138; 1149
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2735
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	2529; 3182; 4020
AquI	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	2619
AquI	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	296
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2048
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	2790
ArsI	GACNNNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	26	28; 79; 129; 553; 588; 600; 634; 733; 836; 878; 2058; 2062; 2081; 2392; 2470; 2551; 2560; 2638; 3014; 3030; 3389; 3401; 3479; 3487; 3498; 3573
AsiGI	A!CCGGT	1	84
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2338
Asp700I	GAANN!NNTTC	1	334
Asp718I	G!GTACC	1	63
AspA2I	C!CTAGG	2	2042; 3057
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	28	15; 109; 298; 377; 418; 580; 770; 772; 1486; 1494; 1520; 1542; 1551; 1564; 1595; 2214; 2222; 2286; 2323; 2589; 2849; 3025; 3111; 3514; 3623; 3797; 3897; 3964
AspS9I	G!GNCC	10	71; 72; 319; 667; 1327; 2736; 3181; 3227; 3285; 3318
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	45; 2902
AsuC2I	CC!SGG	6	75; 76; 2224; 2384; 2997; 3761
AsuHPI	GGTGANNNNNNNN!	4	288; 435; 3291; 3407
AsuHPI	!NNNNNNNTCACC	6	375; 516; 594; 727; 1337; 2398
AsuNHI	G!CTAGC	0	
AvaI	C!YCGRG	4	31; 74; 322; 682
AvaII	G!GWCC	2	2736; 3181
AviII	TGC!GCA	1	2322
AvrII	C!CTAGG	2	2042; 3057
AxyI	CC!TNAGG	2	1700; 3332
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	8	75; 257; 263; 677; 683; 2166; 2259; 3828
BalI	TGG!CCA	4	167; 470; 491; 2302
BamHI	G!GATCC	1	78
BanI	G!GYRCC	6	63; 106; 295; 1373; 2219; 2254
BanII	GRGCY!C	5	38; 75; 1411; 2585; 3295
BanIII	AT!CGAT	1	2060
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	354
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	1	322
BasI	CCANNNN!NTGG	1	498
BauI	C!ACGAG	3	595; 2938; 3965
BauI	C!TCGTG	1	2812
BbeI	GGCGC!C	3	110; 299; 2223
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	3	495; 678; 708
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNNGTCTTC	0	
BbuI	GCATG!C	4	354; 1790; 1862; 2625
BbvI	GCAGCNNNNNNNN!	9	113; 452; 620; 1008; 2293; 2335; 2856; 3309; 3809
BbvI	!NNNNNNNNNNNGCTGC	7	334; 1502; 2167; 2351; 2444; 3510; 3716
Bbv12I	GWGCW!C	6	38; 271; 677; 2333; 2523; 3828
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	7	388; 664; 867; 1350; 1914; 2440; 2942
BccI	!NNNNNGATGG	8	141; 157; 352; 391; 481; 1318; 2098; 2526
BceAI	ACGGCNNNNNNNNNN!	7	138; 213; 309; 333; 582; 2646; 3133
BceAI	!NNNNNNNNNNNNNGCCGT	4	757; 1361; 2179; 3638
Bcefl	ACGGCNNNNNNNNNN!	7	138; 213; 309; 333; 582; 2646; 3133
Bcefl	!NNNNNNNNNNNNNGCCGT	4	758; 1362; 2180; 3639
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	1649; 2439; 3940
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	6	75; 76; 2224; 2384; 2997; 3761
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	4073
BdaI	!NNNNNNNNNNTGANNNNNNNTCA	1	4039
BfaI	C!TAG	8	10; 875; 1069; 1487; 2043; 3058; 3392; 3645
BfiI	ACTGGGNNNNN!	1	2169
BfiI	!NNNNCCCACT	3	222; 294; 1921
BfmI	C!TRYAG	4	52; 1555; 3682; 3873
BfoI	RGCGC!Y	8	16; 110; 299; 581; 1487; 1495; 2223; 3898
BfrI	C!TTAAG	1	1102
BfuI	GTATCCNNNNNN!	3	1649; 2439; 3940
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	2488; 2938
BfuAI	!NNNNNNNNNGCAGGT	1	2107
BfuCI	!GATC	26	27; 78; 128; 552; 587; 599; 633; 732; 835; 877; 2057; 2061; 2080; 2391; 2469; 2550; 2559; 2637; 3013; 3029; 3388; 3400; 3478; 3486; 3497; 3572
BglI	GCCNNNN!NGGC	1	1995
BglII	A!GATCT	2	27; 587
BisI	GC!NGC	38	102; 105; 186; 348; 441; 609; 663; 666; 783; 867; 997; 1516; 1538; 1552; 1990; 2129; 2181; 2192; 2282; 2287; 2324; 2365; 2452; 2455; 2458; 2694; 2790; 2831; 2845; 2959; 3298; 3313; 3524; 3730; 3733; 3798; 3941; 4096
BlnI	C!CTAGG	2	2042; 3057

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BlpI	GC!TNAGC	2	715; 813
BlsI	GCN!GC	38	103; 106; 187; 349; 442; 610; 664; 667; 784; 868; 998; 1517; 1539; 1553; 1991; 2130; 2182; 2193; 2283; 2288; 2325; 2366; 2453; 2456; 2459; 2695; 2791; 2832; 2846; 2960; 3299; 3314; 3525; 3731; 3734; 3799; 3942; 4097
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	2736; 3181
Bme1390I	CC!NGG	18	75; 76; 264; 274; 472; 1756; 1811; 1828; 2224; 2384; 2607; 2997; 3186; 3289; 3761; 3979; 3992; 4113
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	31; 74; 322; 682
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	10	72; 73; 320; 668; 1328; 2737; 3182; 3228; 3286; 3319
BmiI	GGN!NCC	20	65; 73; 80; 108; 297; 321; 669; 1375; 1396; 1408; 1599; 1760; 1832; 2221; 2256; 3104; 3183; 3228; 4071; 4110
BmrI	ACTGGGNNNNN!	1	2169
BmrI	!NNNNCCCAGT	3	222; 294; 1921
BmrFI	CC!NGG	18	75; 76; 264; 274; 472; 1756; 1811; 1828; 2224; 2384; 2607; 2997; 3186; 3289; 3761; 3979; 3992; 4113
BmsI	GCATCNNNNN!	7	188; 1036; 1799; 1871; 2519; 2583; 2858
BmsI	!NNNNNNNNNGATGC	6	192; 213; 2178; 2433; 2649; 4041
BmtI	GCTAG!C	0	
BmuI	ACTGGGNNNNN!	1	2169
BmuI	!NNNNCCCAGT	3	222; 294; 1921
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNCTCNNNNNNNNNNNN!	2	2009; 2908
BpI	!NNNNNNNNGAGNNNNNCTC	2	1977; 2876
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	285; 532; 3060
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	3003
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	45; 2902
Bpu1102I	GC!TNAGC	2	715; 813
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	3514; 4053
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	22; 2596; 3755
BpuMI	CC!SGG	6	75; 76; 2224; 2384; 2997; 3761
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	754; 3209
Bsa29I	AT!CGAT	1	2060
BsaAI	YAC!GTR	7	138; 366; 495; 678; 708; 1336; 2524
BsaBI	GATNN!NNATC	2	882; 2079
BsaHI	GR!CGYC	5	107; 296; 2220; 2922; 3001
BsaJI	C!CNNGG	21	67; 74; 120; 183; 262; 272; 419; 471; 773; 1754; 1826; 1949; 1984; 1993; 2042; 2383; 2652; 3057; 3185; 3288; 3978
BsaMI	GAATGCN!	1	971
BsaMI	G!CATTC	1	1064
BsaWI	W!CCGGW	6	18; 84; 2251; 3095; 3785; 3932
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1300
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1270
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTTG	2	1221; 3128
Bsc4I	CCNNNNN!NNGG	21	138; 189; 263; 420; 498; 661; 1232; 1558; 1950; 2201; 2745; 3026; 3058; 3190; 3225; 3275; 3307; 3660; 3939; 4105; 4123
BscAI	GCATCNNNN!	7	187; 1035; 1798; 1870; 2518; 2582; 2857
BscAI	!NNNNNNGATGC	6	195; 216; 2181; 2436; 2652; 4044
Bse1I	ACTGGN!	3	2164; 2365; 3611
Bse1I	C!CAGT	7	228; 300; 839; 1249; 1927; 3723; 3736
Bse8I	GATNN!NNATC	2	882; 2079

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Bse21I	CC!TNAGG	2	1700; 3332
Bse118I	R!CCGGY	7	84; 244; 604; 1437; 2539; 2720; 3003
BseAI	T!CCGGA	0	
BseBI	CC!WGG	12	264; 274; 472; 1756; 1811; 1828; 2607; 3186; 3289; 3979; 3992; 4113
BseCI	AT!CGAT	1	2060
BseDI	C!CNNGG	21	67; 74; 120; 183; 262; 272; 419; 471; 773; 1754; 1826; 1949; 1984; 1993; 2042; 2383; 2652; 3057; 3185; 3288; 3978
Bse3DI	GCAATGNN!	2	162; 2453
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	8	168; 228; 492; 729; 2080; 2537; 2562; 3016
BseGI	!CATCC	2	179; 1906
BseJI	GATNN!NNATC	2	882; 2079
BseLI	CCNNNNN!NNGG	21	138; 189; 263; 420; 498; 661; 1232; 1558; 1950; 2201; 2745; 3026; 3058; 3190; 3225; 3275; 3307; 3660; 3939; 4105; 4123
BseMI	GCAATGNN!	2	162; 2453
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	3	38; 864; 3346
BseMII	!NNNNNNNNCTGAG	7	706; 804; 1691; 1993; 2874; 3446; 3855
BseNI	ACTGNN!	3	2164; 2365; 3611
BseNI	C!CAGT	7	228; 300; 839; 1249; 1927; 3723; 3736
BsePI	G!CGCGC	1	768
BseRI	GAGGAGNNNNNNNNNN!	1	2038
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	8	75; 257; 263; 677; 683; 2166; 2259; 3828
BseXI	GCAGC!NNNNNNNN!	9	113; 452; 620; 1008; 2293; 2335; 2856; 3309; 3809
BseXI	!NNNNNNNNNNNGTGC	7	334; 1502; 2167; 2351; 2444; 3510; 3716
BseX3I	C!GGCCG	1	2126
BseYI	C!CCAGC	3	1763; 1835; 3834
BseYI	G!CTGGG	2	498; 2724
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	388
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	222
Bsh1236I	CG!CG	20	69; 185; 416; 455; 740; 770; 869; 1144; 1520; 1540; 1564; 1595; 2286; 2587; 3025; 3109; 3172; 3241; 3514; 4095
Bsh1285I	CGRY!CG	3	89; 2129; 3804
BshFI	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 866; 1186; 1328; 1983; 1989; 1998; 2041; 2128; 2302; 2693; 2720; 3229; 3286; 3319; 3664; 4098; 4116; 4127
BshNI	G!GYRCC	6	63; 106; 295; 1373; 2219; 2254
BshTI	A!CCGGT	1	84
BshVI	AT!CGAT	1	2060
BsiEI	CGRY!CG	3	89; 2129; 3804
BsiHKAI	GWGCW!C	6	38; 271; 677; 2333; 2523; 3828
BsiHKCI	C!YCGRG	4	31; 74; 322; 682
BsiSI	C!CGG	21	19; 75; 85; 245; 605; 1438; 2125; 2202; 2224; 2252; 2383; 2473; 2540; 2721; 2996; 3004; 3096; 3570; 3760; 3786; 3933
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	21	138; 189; 263; 420; 498; 661; 1232; 1558; 1950; 2201; 2745; 3026; 3058; 3190; 3225; 3275; 3307; 3660; 3939; 4105; 4123
BsIFI	GGGACNNNNNNNNNN!	3	2371; 2903; 3012
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1736; 1808; 1872; 3167
BsmI	GAATGCN!	1	971
BsmI	G!CATTC	1	1064
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	5	754; 1644; 2062; 3081; 3209
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2371; 2903; 3012
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1736; 1808; 1872; 3167
BsnI	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 866; 1186; 1328; 1983; 1989; 1998; 2041; 2128; 2302; 2693; 2720; 3229; 3286; 3319; 3664; 4098; 4116; 4127
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	754; 3209
BsoBI	C!YCGRG	4	31; 74; 322; 682
Bsp13I	T!CCGGA	0	

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Bsp19I	C!CATGG	2	1949; 2652
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	3023
Bsp24I	!NNNNNNCCANNNNNGTC	2	3444; 3622
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3476; 3654
Bsp24I	!NNNNNNNGACNNNNNTGG	1	2991
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	45; 2902
Bsp120I	G!GGCCC	1	71
Bsp143I	!GATC	26	27; 78; 128; 552; 587; 599; 633; 732; 835; 877; 2057; 2061; 2080; 2391; 2469; 2550; 2559; 2637; 3013; 3029; 3388; 3400; 3478; 3486; 3497; 3572
Bsp1286I	GDGCH!C	15	38; 75; 257; 263; 271; 677; 683; 1411; 2166; 2259; 2333; 2523; 2585; 3295; 3828
Bsp1407I	T!GTACA	2	446; 539
Bsp1720I	GC!TNAGC	2	715; 813
BspACI	C!CGC	30	67; 183; 414; 738; 783; 867; 1535; 1538; 1552; 1642; 1890; 1902; 1911; 1923; 1933; 1944; 1990; 2129; 2192; 2694; 2739; 2805; 2831; 2956; 2959; 3107; 3239; 3546; 3690; 4186
BspACI	G!CGG	25	69; 104; 185; 662; 665; 1480; 1507; 1595; 1705; 2286; 2350; 2451; 2454; 2734; 2789; 2887; 3025; 3172; 3312; 3555; 3800; 3921; 3940; 4067; 4095
BspCNI	CTCAGNNNNNNNN!	3	37; 863; 3345
BspCNI	!NNNNNNCTGAG	7	707; 805; 1692; 1994; 2875; 3447; 3856
BspDI	AT!CGAT	1	2060
BspD6I	GACTCNNNN!	6	30; 830; 879; 1293; 2899; 3776
BspD6I	!NNNNNGAGTC	2	1256; 1688
BspEI	T!CCGGA	0	
BspFNI	CG!CG	20	69; 185; 416; 455; 740; 770; 869; 1144; 1520; 1540; 1564; 1595; 2286; 2587; 3025; 3109; 3172; 3241; 3514; 4095
BspHI	T!CATGA	2	1646; 3418
BspLI	GGN!NCC	20	65; 73; 80; 108; 297; 321; 669; 1375; 1396; 1408; 1599; 1760; 1832; 2221; 2256; 3104; 3183; 3228; 4071; 4110
BspMI	ACCTGCNNNN!	2	2488; 2938
BspMI	!NNNNNNNGCAGGT	1	2107
BspOI	GCTAG!C	0	
BspPI	GGATCNNNN!	8	86; 2088; 2399; 2645; 3037; 3396; 3494; 3580
BspPI	!NNNNNGATCC	7	73; 123; 830; 2464; 3008; 3395; 3492
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	568; 2564; 2774
BspTI	C!TTAAG	1	1102
BspT104I	TT!CGAA	2	45; 2902
BspT107I	G!GYRCC	6	63; 106; 295; 1373; 2219; 2254
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	754; 3209
BsrI	ACTGGN!	3	2164; 2365; 3611
BsrI	C!CAGT	7	228; 300; 839; 1249; 1927; 3723; 3736
BsrBI	CCG!CTC	2	1644; 2833
BsrBI	GAG!CGG	2	1480; 2887
BsrDI	GCAATGNN!	2	162; 2453
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	84; 244; 604; 1437; 2539; 2720; 3003
BsrGI	T!GTACA	2	446; 539
BsrSI	ACTGGN!	3	2164; 2365; 3611
BsrSI	C!CAGT	7	228; 300; 839; 1249; 1927; 3723; 3736
BssAI	R!CCGGY	7	84; 244; 604; 1437; 2539; 2720; 3003
BssECI	C!CNNGG	21	67; 74; 120; 183; 262; 272; 419; 471; 773; 1754; 1826; 1949; 1984; 1993; 2042; 2383; 2652; 3057; 3185; 3288; 3978
BssHII	G!CGCGC	1	768
BssKI	!CCNNGG	18	73; 74; 262; 272; 470; 1754; 1809; 1826; 2222; 2382; 2605; 2995; 3184; 3287; 3759; 3977; 3990; 4111
BssMI	!GATC	26	27; 78; 128; 552; 587; 599; 633; 732; 835; 877; 2057; 2061; 2080; 2391; 2469; 2550; 2559; 2637; 3013; 3029; 3388; 3400; 3478; 3486; 3497; 3572
BssNI	GR!CGYC	5	107; 296; 2220; 2922; 3001
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	595; 2938; 3965

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssSI	C!TCGTG	1	2812
BssT1I	C!CWGGG	4	1949; 2042; 2652; 3057
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	568; 1687; 2564; 2774
Bst98I	C!TTAAG	1	1102
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	5	107; 296; 2220; 2922; 3001
BstAFI	C!TTAAG	1	1102
BstAPI	GCANNNN!NTGC	3	1787; 1859; 3321
BstAUI	T!GTACA	2	446; 539
BstBI	TT!CGAA	2	45; 2902
Bst2BI	C!ACGAG	3	595; 2938; 3965
Bst2BI	C!TCGTG	1	2812
BstBAI	YAC!GTR	7	138; 366; 495; 678; 708; 1336; 2524
Bst4CI	ACN!GT	10	63; 765; 1311; 2600; 2716; 2824; 3147; 3638; 4108; 4179
BstC8I	GCN!NGC	28	71; 207; 352; 770; 1439; 1482; 1496; 1769; 1788; 1841; 1860; 2114; 2300; 2519; 2585; 2591; 2623; 2664; 2668; 2722; 3005; 3192; 3239; 3295; 3317; 3528; 4088; 4125
BstDEI	C!TNAG	10	24; 715; 813; 850; 1700; 2002; 2883; 3332; 3455; 3864
BstDSI	C!CRYGG	6	67; 120; 183; 773; 1949; 2652
BstEII	G!GTNACC	2	276; 423
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	8	168; 228; 492; 729; 2080; 2537; 2562; 3016
BstF5I	!CATCC	2	179; 1906
BstFNI	CG!CG	20	69; 185; 416; 455; 740; 770; 869; 1144; 1520; 1540; 1564; 1595; 2286; 2587; 3025; 3109; 3172; 3241; 3514; 4095
BstH2I	RGCGC!Y	8	16; 110; 299; 581; 1487; 1495; 2223; 3898
BstHHI	GCG!C	28	15; 109; 298; 377; 418; 580; 770; 772; 1486; 1494; 1520; 1542; 1551; 1564; 1595; 2214; 2222; 2286; 2323; 2589; 2849; 3025; 3111; 3514; 3623; 3797; 3897; 3964
BstKTI	GAT!C	26	30; 81; 131; 555; 590; 602; 636; 735; 838; 880; 2060; 2064; 2083; 2394; 2472; 2553; 2562; 2640; 3016; 3032; 3391; 3403; 3481; 3489; 3500; 3575
BstMAI	GTCTCN!	0	
BstMAI	!NNNNNGAGAC	5	754; 1644; 2062; 3081; 3209
BstMBI	!GATC	26	27; 78; 128; 552; 587; 599; 633; 732; 835; 877; 2057; 2061; 2080; 2391; 2469; 2550; 2559; 2637; 3013; 3029; 3388; 3400; 3478; 3486; 3497; 3572
BstMCI	CGRY!CG	3	89; 2129; 3804
BstMWI	GCNNNNN!NNGC	26	185; 206; 245; 302; 575; 614; 809; 1447; 1477; 1504; 1546; 1787; 1859; 1910; 1989; 2211; 2295; 2318; 2457; 2580; 2663; 2930; 3117; 3321; 3520; 4092
BstNI	CC!WGG	12	264; 274; 472; 1756; 1811; 1828; 2607; 3186; 3289; 3979; 3992; 4113
BstNSI	RCATG!Y	5	354; 1790; 1862; 2625; 4142
BstOI	CC!WGG	12	264; 274; 472; 1756; 1811; 1828; 2607; 3186; 3289; 3979; 3992; 4113
BstPI	G!GTNACC	2	276; 423
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	18	73; 74; 262; 272; 470; 1754; 1809; 1826; 2222; 2382; 2605; 2995; 3184; 3287; 3759; 3977; 3990; 4111
BstSFI	C!TRYAG	4	52; 1555; 3682; 3873
BstSLI	GKGCM!C	8	75; 257; 263; 677; 683; 2166; 2259; 3828
BstSNI	TAC!GTA	0	
BstUI	CG!CG	20	69; 185; 416; 455; 740; 770; 869; 1144; 1520; 1540; 1564; 1595; 2286; 2587; 3025; 3109; 3172; 3241; 3514; 4095
Bst2UI	CC!WGG	12	264; 274; 472; 1756; 1811; 1828; 2607; 3186; 3289; 3979; 3992; 4113
BstVII	GCAGCNNNNNNN!	9	113; 452; 620; 1008; 2293; 2335; 2856; 3309; 3809
BstV1I	!NNNNNNNNNNNNGCTGC	7	334; 1502; 2167; 2351; 2444; 3510; 3716
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	12	27; 78; 128; 587; 835; 2391; 2637; 3029; 3388; 3400; 3486; 3497
BstYI	R!GATCY	12	27; 78; 128; 587; 835; 2391; 2637; 3029; 3388; 3400; 3486; 3497

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstZI	C!GGCCG	1	2126
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	1649; 2439; 3940
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2060
Bsu36I	CC!TNAGG	2	1700; 3332
BsuRI	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 866; 1186; 1328; 1983; 1989; 1998; 2041; 2128; 2302; 2693; 2720; 3229; 3286; 3319; 3664; 4098; 4116; 4127
BsuTUI	AT!CGAT	1	2060
BtgI	C!CRYGG	6	67; 120; 183; 773; 1949; 2652
BtgZI	GCGATGNNNNNNNNNN!	5	215; 263; 410; 1337; 2672
BtgZI	!NNNNNNNNNNNNNNCATCGC	2	2491; 2835
BthCI	GCNG!C	38	104; 107; 188; 350; 443; 611; 665; 668; 785; 869; 999; 1518; 1540; 1554; 1992; 2131; 2183; 2194; 2284; 2289; 2326; 2367; 2454; 2457; 2460; 2696; 2792; 2833; 2847; 2961; 3300; 3315; 3526; 3732; 3735; 3800; 3943; 4098
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	531; 1059
BtsCI	GGATGNN!	8	168; 228; 492; 729; 2080; 2537; 2562; 3016
BtsCI	!CATCC	2	179; 1906
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	2488; 2938
BveI	!NNNNNNNNGCAGGT	1	2107
Cac8I	GCN!NGC	28	71; 207; 352; 770; 1439; 1482; 1496; 1769; 1788; 1841; 1860; 2114; 2300; 2519; 2585; 2591; 2623; 2664; 2668; 2722; 3005; 3192; 3239; 3295; 3317; 3528; 4088; 4125
CaiI	CAGNNN!CTG	2	3321; 3729
CciI	T!CATGA	2	1646; 3418
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	6	627; 660; 2509; 2514; 2712; 2853
CdiI	C!GATG	6	201; 249; 357; 396; 1323; 2658
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4092
CdpI	!NNNNNNNNNNNNNNNNNNNCTCCGC	2	1881; 1923
CelII	GC!TNAGC	2	715; 813
CfoI	GCG!C	28	15; 109; 298; 377; 418; 580; 770; 772; 1486; 1494; 1520; 1542; 1551; 1564; 1595; 2214; 2222; 2286; 2323; 2589; 2849; 3025; 3111; 3514; 3623; 3797; 3897; 3964
CfrI	Y!GGCCR	9	165; 468; 489; 629; 864; 2126; 2300; 2691; 2718
Cfr9I	C!CCGGG	1	74
Cfr10I	R!CCGGY	7	84; 244; 604; 1437; 2539; 2720; 3003
Cfr13I	G!GNCC	10	71; 72; 319; 667; 1327; 2736; 3181; 3227; 3285; 3318
Cfr42I	CCGC!GG	2	70; 186
ChaI	GATC!	26	31; 82; 132; 556; 591; 603; 637; 736; 839; 881; 2061; 2065; 2084; 2395; 2473; 2554; 2563; 2641; 3017; 3033; 3392; 3404; 3482; 3490; 3501; 3576
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	556; 2037; 3477; 3577; 3655
CjeI	!NNNNNNNNNACNNNNNNNTGG	6	846; 1704; 1799; 2991; 3541; 4096
CjeI	ACNNNNNNNTGGNNNNNNNNNNNN!	6	880; 1738; 1833; 3025; 3575; 4130
CjeI	!NNNNNNNNCCANNNNNNGT	5	522; 2003; 3443; 3543; 3621
CjePI	CCANNNNNNNTCNNNNNNNNNNNN!	2	3477; 3655
CjePI	!NNNNNNNNNGANNNNNNNNTGG	3	450; 2991; 3590
CjePI	GANNNNNNNNTGGNNNNNNNNNNNN!	3	483; 3024; 3623
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	3444; 3622
Clal	AT!CGAT	1	2060
CpoI	CG!GWCCG	1	2736
CseI	GACGCNNNNN!	2	2930; 3009
CseI	!NNNNNNNNNNGCGTC	3	1553; 3448; 4026
CsiI	A!CCWGGT	1	1809
CspI	CG!GWCCG	1	2736
Csp6I	G!TAC	6	64; 315; 447; 540; 687; 2525
Csp45I	TT!CGAA	2	45; 2902
CspAI	A!CCGGT	1	84
CspCI	CAANNNNNNGTGGNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	782; 1500; 3109
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	16	96; 351; 696; 1647; 1787; 1859; 1950; 2091; 2436; 2622; 2653; 2679; 3035; 3419; 4139; 4190
CviJI	RG!CY	90	36; 42; 73; 167; 194; 320; 327; 347; 362; 462; 470; 476; 491; 559; 569; 631; 668; 701; 714; 752; 803; 812; 817; 866; 889; 999; 1166; 1186; 1328; 1409; 1423; 1437; 1718; 1759; 1831; 1954; 1983; 1989; 1998; 2006; 2029; 2041; 2047; 2128; 2145; 2153; 2180; 2205; 2289; 2298; 2302; 2326; 2364; 2440; 2457; 2476; 2539; 2583; 2593; 2610; 2693; 2720; 2724; 2761; 2784; 2800; 2980; 3007; 3068; 3190; 3229; 3286; 3293; 3300; 3319; 3330; 3581; 3610; 3653; 3664; 3729; 3808; 3833; 3838; 3884; 3974; 4072; 4098; 4116; 4127
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; 803; 812; 817; 866; 889; 999; 1166; 1186; 1328; 1409; 1423; 1437; 1718; 1759; 1831; 1954; 1983; 1989; 1998; 2006; 2029; 2041; 2047; 2128; 2145; 2153; 2180; 2205; 2289; 2298; 2302; 2326; 2364; 2440; 2457; 2476; 2539; 2583; 2593; 2610; 2693; 2720; 2724; 2761; 2784; 2800; 2980; 3007; 3068; 3190; 3229; 3286; 3293; 3300; 3319; 3330; 3581; 3610; 3653; 3664; 3729; 3808; 3833; 3838; 3884; 3974; 4072; 4098; 4116; 4127
CviQI	G!TAC	6	64; 315; 447; 540; 687; 2525
DdeI	C!TNAG	10	24; 715; 813; 850; 1700; 2002; 2883; 3332; 3455; 3864
DinI	GGC!GCC	3	108; 297; 2221
DpnI	GA!TC	26	29; 80; 130; 554; 589; 601; 635; 734; 837; 879; 2059; 2063; 2082; 2393; 2471; 2552; 2561; 2639; 3015; 3031; 3390; 3402; 3480; 3488; 3499; 3574
DpnII	!GATC	26	27; 78; 128; 552; 587; 599; 633; 732; 835; 877; 2057; 2061; 2080; 2391; 2469; 2550; 2559; 2637; 3013; 3029; 3388; 3400; 3478; 3486; 3497; 3572
DraI	TTT!AAA	3	922; 3364; 3383
DraII	RG!GNCCY	1	3318
DraIII	CACNNN!GTG	1	1336
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	338; 3700
DraRI	!NNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	3	1291; 2247; 4036
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1291; 2247; 4036
EaeI	Y!GGCCR	9	165; 468; 489; 629; 864; 2126; 2300; 2691; 2718
EagI	C!GGCCG	1	2126
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	4	568; 1687; 2564; 2774
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	4	568; 1687; 2564; 2774
EciI	GGCGANNNNNNNNNNNN!	4	1720; 2749; 3936; 4082
EciI	!NNNNNNNNNTCCGCC	3	1891; 1912; 1933
Ecl136II	GAG!CTC	1	36
EclXI	C!GGCCG	1	2126
Eco24I	GRGCY!C	5	38; 75; 1411; 2585; 3295
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	2	754; 3209
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	2736; 3181
Eco47III	AGC!GCT	1	14
Eco52I	C!GGCCG	1	2126
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	5	349; 592; 775; 2366; 2798
Eco57I	!NNNNNNNNNNNNNNNCTCAG	2	159; 3596
Eco72I	CAC!GTG	3	495; 678; 708
Eco81I	CC!TNAGG	2	1700; 3332
Eco88I	C!YCGRG	4	31; 74; 322; 682

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco91I	G!GTNACC	2	276; 423
Eco105I	TAC!GTA	0	
Eco130I	C!CWGG	4	1949; 2042; 2652; 3057
Eco147I	AGG!CCT	1	2041
EcoHI	!CCSGG	6	73; 74; 2222; 2382; 2995; 3759
EcoICRI	GAG!CTC	1	36
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	8	285; 349; 532; 592; 775; 2366; 2798; 3060
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	159; 3003; 3596
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	2	276; 423
Eco0109I	RG!GNCCY	1	3318
EcoRI	G!AATTC	1	47
EcoRII	!CCWGG	12	262; 272; 470; 1754; 1809; 1826; 2605; 3184; 3287; 3977; 3990; 4111
EcoRV	GAT!ATC	0	
EcoT14I	C!CWGG	4	1949; 2042; 2652; 3057
EcoT22I	ATGCA!T	3	1792; 1864; 4195
EcoT38I	GRGCY!C	5	38; 75; 1411; 2585; 3295
Eco53kI	GAG!CTC	1	36
EgeI	GGC!GCC	3	108; 297; 2221
EheI	GGC!GCC	3	108; 297; 2221
ErhI	C!CWGG	4	1949; 2042; 2652; 3057
EsaBC3I	TC!GA	16	33; 46; 59; 390; 432; 1370; 2061; 2334; 2490; 2514; 2550; 2712; 2903; 2948; 3203; 4041
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	16	99; 354; 699; 1650; 1790; 1862; 1953; 2094; 2439; 2625; 2656; 2682; 3038; 3422; 4142; 4193
FaiI	YA!TR	41	97; 352; 697; 748; 882; 892; 958; 1003; 1208; 1636; 1648; 1779; 1788; 1851; 1860; 1884; 1951; 1975; 2092; 2156; 2437; 2462; 2623; 2654; 2680; 2752; 2968; 3036; 3114; 3166; 3327; 3344; 3346; 3348; 3420; 3698; 3887; 4003; 4076; 4140; 4191
FalI	AAGNNNNNCTNNNNNNNNNNNN!	2	597; 2560
FalI	!NNNNNNNNAAGNNNNNCTT	2	565; 2528
FaqI	GGGACNNNNNNNNNN!	3	2371; 2903; 3012
FaqI	!NNNNNNNNNNNNNGTCCC	4	1736; 1808; 1872; 3167
FatI	!CATG	16	95; 350; 695; 1646; 1786; 1858; 1949; 2090; 2435; 2621; 2652; 2678; 3034; 3418; 4138; 4189
FauI	CCCGCNNNN!	6	421; 1542; 1897; 1918; 3114; 3246
FauI	!NNNNNNNGCGGG	6	62; 1473; 2343; 2880; 3018; 3165
FauNDI	CA!TATG	0	
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	58
FmuI	GGNC!C	10	74; 75; 322; 670; 1330; 2739; 3184; 3230; 3288; 3321
Fnu4HI	GC!NGC	38	102; 105; 186; 348; 441; 609; 663; 666; 783; 867; 997; 1516; 1538; 1552; 1990; 2129; 2181; 2192; 2282; 2287; 2324; 2365; 2452; 2455; 2458; 2694; 2790; 2831; 2845; 2959; 3298; 3313; 3524; 3730; 3733; 3798; 3941; 4096
FokI	GGATGNNNNNNNNNN!	8	175; 235; 499; 736; 2087; 2544; 2569; 3023
FokI	!NNNNNNNNNNNNNCATCC	2	166; 1893
FriOI	GRGCY!C	5	38; 75; 1411; 2585; 3295
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2322
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	10; 875; 1069; 1487; 2043; 3058; 3392; 3645

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	142	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; 839; 862; 880; 903; 942; 956; 1097; 1192; 1216; 1239; 1262; 1280; 1302; 1323; 1342; 1361; 1390; 1411; 1425; 1451; 1539; 1565; 1614; 1655; 1673; 1712; 1728; 1766; 1823; 1838; 1895; 1915; 1929; 1946; 1960; 1997; 2012; 2055; 2138; 2205; 2236; 2256; 2271; 2316; 2330; 2396; 2410; 2429; 2445; 2486; 2506; 2553; 2603; 2619; 2639; 2664; 2684; 2707; 2734; 2752; 2778; 2818; 2844; 2868; 2924; 2938; 2966; 3009; 3030; 3065; 3109; 3197; 3221; 3243; 3263; 3279; 3300; 3314; 3333; 3417; 3437; 3465; 3480; 3514; 3556; 3583; 3598; 3643; 3667; 3681; 3703; 3729; 3749; 3773; 3799; 3847; 3866; 3885; 3911; 3946; 3991; 4021; 4035; 4086; 4100; 4125; 4141; 4162; 4191
FspEI	!NNNNNNNNNNNNNNNGG	116	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; 804; 848; 891; 991; 1060; 1090; 1168; 1217; 1239; 1267; 1303; 1348; 1377; 1413; 1432; 1460; 1480; 1543; 1566; 1674; 1706; 1724; 1753; 1796; 1825; 1936; 1965; 2008; 2029; 2057; 2090; 2110; 2135; 2162; 2187; 2209; 2237; 2263; 2284; 2335; 2356; 2374; 2422; 2458; 2514; 2539; 2563; 2592; 2615; 2639; 2665; 2687; 2706; 2731; 2771; 2807; 2872; 2957; 2981; 3010; 3044; 3065; 3085; 3130; 3157; 3176; 3209; 3261; 3292; 3319; 3371; 3469; 3540; 3585; 3646; 3711; 3745; 3771; 3789; 3825; 3895; 3918; 3940; 3964; 3997; 4045; 4080; 4098; 4155
Fsp4HI	GC!NGC	38	102; 105; 186; 348; 441; 609; 663; 666; 783; 867; 997; 1516; 1538; 1552; 1990; 2129; 2181; 2192; 2282; 2287; 2324; 2365; 2452; 2455; 2458; 2694; 2790; 2831; 2845; 2959; 3298; 3313; 3524; 3730; 3733; 3798; 3941; 4096
GdiII	C!GGCCR	1	2126
GdiII	Y!GGCCG	5	629; 864; 2126; 2691; 2718
GlaI	GC!GC	28	14; 108; 297; 376; 417; 579; 769; 771; 1485; 1493; 1519; 1541; 1550; 1563; 1594; 2213; 2221; 2285; 2322; 2588; 2848; 3024; 3110; 3513; 3622; 3796; 3896; 3963
GluI	GC!NGC	38	102; 105; 186; 348; 441; 609; 663; 666; 783; 867; 997; 1516; 1538; 1552; 1990; 2129; 2181; 2192; 2282; 2287; 2324; 2365; 2452; 2455; 2458; 2694; 2790; 2831; 2845; 2959; 3298; 3313; 3524; 3730; 3733; 3798; 3941; 4096
GsaI	CCCAG!C	3	1767; 1839; 3838
GsaI	GCTGG!G	2	502; 2728
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	285; 532; 3060
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3003
HaeI	WGG!CCW	9	167; 470; 491; 559; 2041; 2302; 3664; 4116; 4127
HaeII	RGCGC!Y	8	16; 110; 299; 581; 1487; 1495; 2223; 3898
HaeIII	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 866; 1186; 1328; 1983; 1989; 1998; 2041; 2128; 2302; 2693; 2720; 3229; 3286; 3319; 3664; 4098; 4116; 4127
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	895; 2416
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	861; 2382
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	894; 2415
HaeIV	!NNNNNNNGAYNNNNNNRTC	2	863; 2384
HapII	C!CGG	21	19; 75; 85; 245; 605; 1438; 2125; 2202; 2224; 2252; 2383; 2473; 2540; 2721; 2996; 3004; 3096; 3570; 3760; 3786; 3933
HgaI	GACGCNNNNN!	2	2930; 3009
HgaI	!NNNNNNNNNNNGCGTC	3	1553; 3448; 4026
HhaI	GCG!C	28	15; 109; 298; 377; 418; 580; 770; 772; 1486; 1494; 1520; 1542; 1551; 1564; 1595; 2214; 2222; 2286; 2323; 2589; 2849; 3025; 3111; 3514; 3623; 3797; 3897; 3964
Hin1I	GR!CGYC	5	107; 296; 2220; 2922; 3001
Hin1III	CATG!	16	99; 354; 699; 1650; 1790; 1862; 1953; 2094; 2439; 2625; 2656; 2682; 3038; 3422; 4142; 4193
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	2	894; 2415
Hin4I	!NNNNNNNNNGABNNNNNNRTC	3	862; 2383; 2413
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	3	894; 2415; 2445
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	862; 2383
Hin6I	G!CGC	28	13; 107; 296; 375; 416; 578; 768; 770; 1484; 1492; 1518; 1540; 1549; 1562; 1593; 2212; 2220; 2284; 2321; 2587; 2847; 3023; 3109; 3512; 3621; 3795; 3895; 3962

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HinP1I	G!CGC	28	13; 107; 296; 375; 416; 578; 768; 770; 1484; 1492; 1518; 1540; 1549; 1562; 1593; 2212; 2220; 2284; 2321; 2587; 2847; 3023; 3109; 3512; 3621; 3795; 3895; 3962
HincII	GTY!RAC	2	59; 983
HindII	GTY!RAC	2	59; 983
HindIII	A!AGCTT	2	40; 801
HinfI	G!ANTC	14	22; 507; 822; 871; 1263; 1285; 1695; 2705; 2839; 2891; 2949; 2986; 3768; 4164
HpaI	GTT!AAC	1	983
HpaII	C!CGG	21	19; 75; 85; 245; 605; 1438; 2125; 2202; 2224; 2252; 2383; 2473; 2540; 2721; 2996; 3004; 3096; 3570; 3760; 3786; 3933
HphI	GGTGANNNNNNNN!	4	288; 435; 3291; 3407
HphI	!NNNNNNNTCACC	6	375; 516; 594; 727; 1337; 2398
Hpy8I	GTN!NAC	8	59; 447; 675; 983; 1267; 1284; 1339; 3826
Hpy99I	CGWCG!	8	63; 2310; 2338; 2632; 2647; 2924; 3309; 4042
Hpy166II	GTN!NAC	8	59; 447; 675; 983; 1267; 1284; 1339; 3826
Hpy188I	TCN!GA	12	27; 853; 1394; 2003; 2187; 2531; 2884; 2985; 3464; 3598; 3951; 4029
Hpy188III	TC!NNGA	26	31; 408; 432; 480; 511; 585; 875; 1647; 1699; 2012; 2065; 2238; 2554; 2563; 2646; 2702; 2746; 2836; 2869; 2938; 3419; 3493; 3576; 3674; 3772; 3906
HpyAV	CCTTCNNNNNN!	7	183; 396; 438; 591; 2865; 2972; 3651
HpyAV	!NNNNNGAAGG	10	324; 477; 750; 1453; 2348; 3077; 3093; 3276; 3593; 3903
HpyCH4III	ACN!GT	10	63; 765; 1311; 2600; 2716; 2824; 3147; 3638; 4108; 4179
HpyCH4IV	A!CGT	13	137; 365; 494; 677; 707; 1280; 1292; 1335; 1445; 2336; 2523; 3304; 3437
HpyCH4V	TG!CA	21	54; 239; 350; 369; 675; 969; 996; 1064; 1781; 1790; 1853; 1862; 1977; 2053; 2112; 2271; 2446; 2460; 3530; 3826; 4193
HpyF3I	C!TNAG	10	24; 715; 813; 850; 1700; 2002; 2883; 3332; 3455; 3864
HpyF10VI	GCNNNNN!NNGC	26	185; 206; 245; 302; 575; 614; 809; 1447; 1477; 1504; 1546; 1787; 1859; 1910; 1989; 2211; 2295; 2318; 2457; 2580; 2663; 2930; 3117; 3321; 3520; 4092
Hsp92I	GR!CGYC	5	107; 296; 2220; 2922; 3001
Hsp92II	CATG!	16	99; 354; 699; 1650; 1790; 1862; 1953; 2094; 2439; 2625; 2656; 2682; 3038; 3422; 4142; 4193
HspAI	G!CGC	28	13; 107; 296; 375; 416; 578; 768; 770; 1484; 1492; 1518; 1540; 1549; 1562; 1593; 2212; 2220; 2284; 2321; 2587; 2847; 3023; 3109; 3512; 3621; 3795; 3895; 3962
KasI	G!GCGCC	3	106; 295; 2219
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	983
Kzo9I	!GATC	26	27; 78; 128; 552; 587; 599; 633; 732; 835; 877; 2057; 2061; 2080; 2391; 2469; 2550; 2559; 2637; 3013; 3029; 3388; 3400; 3478; 3486; 3497; 3572
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	568; 2564; 2774
LpnI	RGC!GCV	8	14; 108; 297; 579; 1485; 1493; 2221; 3896
LpnPI	CCDGNNNNNNNNN!	61	32; 88; 124; 219; 241; 258; 276; 298; 313; 484; 550; 583; 618; 655; 766; 808; 839; 957; 1262; 1451; 1674; 1712; 1728; 1768; 1823; 1840; 1940; 2025; 2138; 2215; 2237; 2260; 2396; 2410; 2429; 2486; 2553; 2603; 2619; 2676; 2734; 2943; 3009; 3033; 3109; 3198; 3301; 3334; 3565; 3583; 3729; 3749; 3773; 3799; 3848; 3946; 3991; 4021; 4100; 4125; 4162
LpnPI	!NNNNNNNNNNNNNCHGG	51	4; 60; 230; 249; 355; 457; 484; 531; 590; 848; 1303; 1423; 1480; 1543; 1741; 1753; 1813; 1825; 2057; 2102; 2145; 2187; 2209; 2237; 2284; 2346; 2368; 2458; 2525; 2548; 2592; 2687; 2706; 2731; 2880; 2981; 3024; 3081; 3171; 3274; 3301; 3319; 3555; 3592; 3745; 3771; 3911; 3929; 3964; 4045; 4098
Lsp1109I	GCAGCNNNNNNNN!	9	113; 452; 620; 1008; 2293; 2335; 2856; 3309; 3809
Lsp1109I	!NNNNNNNNNNNGCTGC	7	334; 1502; 2167; 2351; 2444; 3510; 3716
LweI	GCATCNNNNN!	7	188; 1036; 1799; 1871; 2519; 2583; 2858
LweI	!NNNNNNNNNGATGC	6	192; 213; 2178; 2433; 2649; 4041
MabI	A!CCWGGT	1	1809
MaeI	C!TAG	8	10; 875; 1069; 1487; 2043; 3058; 3392; 3645

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MaeII	A!CGT	13	137; 365; 494; 677; 707; 1280; 1292; 1335; 1445; 2336; 2523; 3304; 3437
MaeIII	!GTNAC	12	276; 423; 726; 1008; 1509; 1521; 2340; 2646; 3336; 3602; 3718; 3781
MaiI	GA!TC	26	29; 80; 130; 554; 589; 601; 635; 734; 837; 879; 2059; 2063; 2082; 2393; 2471; 2552; 2561; 2639; 3015; 3031; 3390; 3402; 3480; 3488; 3499; 3574
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1644; 2833
MbiI	GAG!CGG	2	1480; 2887
MboI	!GATC	26	27; 78; 128; 552; 587; 599; 633; 732; 835; 877; 2057; 2061; 2080; 2391; 2469; 2550; 2559; 2637; 3013; 3029; 3388; 3400; 3478; 3486; 3497; 3572
MboII	GAAGANNNNNNNN!	6	585; 1476; 1704; 2581; 2791; 3410
MboII	!NNNNNNNTCTTC	4	2871; 3038; 3238; 3481
McaTI	GCGC!GC	1	771
MfeI	C!AATTG	1	970
MflI	R!GATCY	12	27; 78; 128; 587; 835; 2391; 2637; 3029; 3388; 3400; 3486; 3497
MhII	GDGCH!C	15	38; 75; 257; 263; 271; 677; 683; 1411; 2166; 2259; 2333; 2523; 2585; 3295; 3828
MIsI	TGG!CCA	4	167; 470; 491; 2302
MluI	A!CGCGT	0	
MluNI	TGG!CCA	4	167; 470; 491; 2302
MlyI	GAGTCNNNNN!	2	1272; 1704
MlyI	!NNNNNGACTC	6	16; 816; 865; 1279; 2885; 3762
MlyI13I	GG!CGCC	3	107; 296; 2220
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1313
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	3745; 3929
MnII	CCTCNNNNNNN!	8	859; 939; 2003; 2821; 3027; 3341; 3711; 4035
MnII	!NNNNNGAGG	15	144; 384; 414; 899; 1364; 1695; 1973; 2016; 2031; 2071; 2135; 2271; 2628; 3058; 3961
Mph1103I	ATGCA!T	3	1792; 1864; 4195
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	1437; 2720; 3003
MroXI	GAANN!NNTTC	1	334
MscI	TGG!CCA	4	167; 470; 491; 2302
MseI	T!TAA	15	805; 921; 982; 1103; 1124; 1135; 1147; 1158; 1175; 1273; 1544; 3363; 3377; 3382; 3434
MslI	CAYNN!NNRTG	3	274; 643; 2657
MspI	C!CGG	21	19; 75; 85; 245; 605; 1438; 2125; 2202; 2224; 2252; 2383; 2473; 2540; 2721; 2996; 3004; 3096; 3570; 3760; 3786; 3933
Msp20I	TGG!CCA	4	167; 470; 491; 2302
MspA1I	CMG!CKG	7	69; 104; 185; 1718; 2326; 3555; 3800
MspCI	C!TTAAG	1	1102
MspJI	CNNRRNNNNNNNN!	218	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; 816; 830; 851; 864; 880; 893; 908; 927; 944; 957; 998; 1012; 1025; 1043; 1081; 1096; 1114; 1155; 1179; 1199; 1217; 1238; 1261; 1293; 1308; 1330; 1348; 1361; 1382; 1399; 1412; 1425; 1441; 1454; 1484; 1499; 1524; 1542; 1555; 1570; 1594; 1608; 1632; 1657; 1673; 1711; 1727; 1766; 1780; 1794; 1822; 1838; 1852; 1866; 1895; 1908; 1929; 1938; 1960; 1990; 2006; 2024; 2054; 2077; 2101; 2125; 2144; 2172; 2198; 2214; 2227; 2250; 2264; 2284; 2297; 2311; 2330; 2344; 2357; 2373; 2388; 2401; 2417; 2432; 2448; 2473; 2492; 2508; 2521; 2534; 2552; 2566; 2580; 2596; 2618; 2634; 2653; 2675; 2691; 2714; 2733; 2747; 2763; 2777; 2797; 2813; 2826; 2848; 2881; 2895; 2915; 2928; 2942; 2996; 3009; 3032; 3045; 3064; 3081; 3108; 3144; 3177; 3196; 3221; 3242; 3269; 3282; 3299; 3313; 3328; 3344; 3404; 3429; 3445; 3467; 3480; 3494; 3525; 3539; 3564; 3582; 3597; 3610; 3629; 3642; 3657; 3686; 3705; 3723; 3748; 3763; 3782; 3798; 3817; 3835; 3851; 3865; 3884; 3911; 3934; 3956; 3975; 3990; 4003; 4020; 4040; 4067; 4080; 4099; 4124; 4147; 4161; 4174; 4191

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	180	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; 795; 812; 837; 854; 872; 901; 930; 972; 1055; 1090; 1117; 1140; 1169; 1213; 1235; 1267; 1303; 1320; 1341; 1378; 1398; 1415; 1432; 1467; 1485; 1503; 1520; 1544; 1566; 1593; 1621; 1647; 1685; 1706; 1723; 1741; 1764; 1785; 1813; 1836; 1857; 1875; 1896; 1913; 1936; 1960; 1980; 1998; 2020; 2051; 2073; 2099; 2118; 2135; 2163; 2182; 2201; 2219; 2237; 2258; 2280; 2304; 2337; 2357; 2375; 2396; 2422; 2449; 2466; 2483; 2500; 2526; 2548; 2570; 2588; 2608; 2627; 2649; 2687; 2707; 2731; 2751; 2771; 2798; 2822; 2855; 2874; 2902; 2924; 2953; 2981; 3006; 3025; 3044; 3065; 3082; 3099; 3130; 3157; 3177; 3200; 3220; 3257; 3274; 3293; 3319; 3339; 3378; 3405; 3424; 3442; 3479; 3497; 3538; 3556; 3582; 3599; 3631; 3660; 3688; 3709; 3732; 3751; 3772; 3790; 3807; 3825; 3851; 3872; 3892; 3912; 3930; 3951; 3977; 3994; 4013; 4032; 4061; 4080; 4098; 4117; 4135; 4153; 4176
MspR9I	CC!NGG	18	75; 76; 264; 274; 472; 1756; 1811; 1828; 2224; 2384; 2607; 2997; 3186; 3289; 3761; 3979; 3992; 4113
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	970
MvaI	CC!WGG	12	264; 274; 472; 1756; 1811; 1828; 2607; 3186; 3289; 3979; 3992; 4113
MvaI269I	GAATGCN!	1	971
MvaI269I	G!CATTC	1	1064
MvnI	CG!CG	20	69; 185; 416; 455; 740; 770; 869; 1144; 1520; 1540; 1564; 1595; 2286; 2587; 3025; 3109; 3172; 3241; 3514; 4095
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	26	185; 206; 245; 302; 575; 614; 809; 1447; 1477; 1504; 1546; 1787; 1859; 1910; 1989; 2211; 2295; 2318; 2457; 2580; 2663; 2930; 3117; 3321; 3520; 4092
NaeI	GCC!GGC	3	1439; 2722; 3005
NarI	GG!CGCC	3	107; 296; 2220
NciI	CC!SGG	6	75; 76; 2224; 2384; 2997; 3761
NcoI	C!CATGG	2	1949; 2652
NdeI	CA!TATG	0	
NdeII	!GATC	26	27; 78; 128; 552; 587; 599; 633; 732; 835; 877; 2057; 2061; 2080; 2391; 2469; 2550; 2559; 2637; 3013; 3029; 3388; 3400; 3478; 3486; 3497; 3572
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	302
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	266
NgoMIV	G!CCGGC	3	1437; 2720; 3003
NheI	G!CTAGC	0	
NlaIII	CATG!	16	99; 354; 699; 1650; 1790; 1862; 1953; 2094; 2439; 2625; 2656; 2682; 3038; 3422; 4142; 4193
NlaIV	GGN!NCC	20	65; 73; 80; 108; 297; 321; 669; 1375; 1396; 1408; 1599; 1760; 1832; 2221; 2256; 3104; 3183; 3228; 4071; 4110
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	405; 1052; 1367; 2959
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	1	4031
Nli3877I	CYCGR!G	4	35; 78; 326; 686
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	444; 2009; 2445
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	1974
NmeDI	RCCGGYNNNNNNN!	7	96; 256; 616; 1449; 2551; 2732; 3015
NmeDI	!NNNNNNNNNNNNRCCGGY	7	71; 231; 591; 1424; 2526; 2707; 2990
NmuCI	!GTSAC	6	276; 423; 726; 1509; 2340; 2646
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2322
NsiI	ATGCA!T	3	1792; 1864; 4195
NspI	RCATG!Y	5	354; 1790; 1862; 2625; 4142
NspV	TT!CGAA	2	45; 2902
OliI	CACNN!NNGTG	1	274
PabI	GTA!C	6	66; 317; 449; 542; 689; 2527
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	354; 1790; 1862; 2625

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PaeR7I	C!TCGAG	1	31
PagI	T!CATGA	2	1646; 3418
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3185; 3288
PauI	G!CGCGC	1	768
PceI	AGG!CCT	1	2041
PciI	A!CATGT	1	4138
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	3	568; 2564; 2774
PcsI	WCGNNNN!NNNCGW	6	2514; 2591; 2834; 2908; 3301; 3819
PctI	GAATGCN!	1	971
PctI	G!CATTC	1	1064
PdiI	GCC!GGC	3	1439; 2722; 3005
PdmI	GAANN!NNTTC	1	334
PfeI	G!AWTC	6	507; 2705; 2839; 2949; 2986; 4164
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2338
PfIMI	CCANNNN!NTGG	1	498
PfoI	T!CCNGGA	1	2995
PhoI	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 866; 1186; 1328; 1983; 1989; 1998; 2041; 2128; 2302; 2693; 2720; 3229; 3286; 3319; 3664; 4098; 4116; 4127
PinAI	A!CCGGT	1	84
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	2601
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	2166; 2421
PleI	GAGTCNNNN!	2	1271; 1703
PleI	!NNNNNGACTC	6	16; 816; 865; 1279; 2885; 3762
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	3	495; 678; 708
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	3	495; 678; 708
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	1302
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3432
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3464
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1270
PpsI	GAGTCNNNN!	2	1271; 1703
PpsI	!NNNNNGACTC	6	16; 816; 865; 1279; 2885; 3762
Ppu10I	A!TGCAT	3	1788; 1860; 4191
Ppu21I	YAC!GTR	7	138; 366; 495; 678; 708; 1336; 2524
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4138
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	2	1003; 1208
Psp03I	GGWC!C	2	2739; 3184
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	12	262; 272; 470; 1754; 1809; 1826; 2605; 3184; 3287; 3977; 3990; 4111
Psp1406I	AA!CGTT	0	
Psp124BI	GAGTC!C	1	38
PspCI	CAC!GTG	3	495; 678; 708
PspEI	G!GTNACC	2	276; 423
PspGI	!CCWGG	12	262; 272; 470; 1754; 1809; 1826; 2605; 3184; 3287; 3977; 3990; 4111
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	20	65; 73; 80; 108; 297; 321; 669; 1375; 1396; 1408; 1599; 1760; 1832; 2221; 2256; 3104; 3183; 3228; 4071; 4110
PspOMI	G!GGCCC	1	71
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	3	323; 1950; 2949
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2352
PspPI	G!GNCC	10	71; 72; 319; 667; 1327; 2736; 3181; 3227; 3285; 3318
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNNNN!	4	869; 1773; 1845; 3351
PspPRI	!NNNNNNNNNNNNNNNNNNCTGRGG	3	532; 1686; 2881
PspXI	VC!TCGAGB	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3321
PstI	CTGCA!G	1	56
PstNI	CAGNNN!CTG	2	3321; 3729
PsuI	R!GATCY	12	27; 78; 128; 587; 835; 2391; 2637; 3029; 3388; 3400; 3486; 3497
PsyI	GACN!NNGTC	1	2338
PteI	G!CGCGC	1	768
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	1718; 2326
RcaI	T!CATGA	2	1646; 3418
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	2735
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RglI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNNNNNNNN!	1	949
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	65; 316; 448; 541; 688; 2526
RsaNI	G!TAC	6	64; 315; 447; 540; 687; 2525
RseI	CAYNN!NNRTG	3	274; 643; 2657
RsrII	CG!GWCCG	1	2736
Rsr2I	CG!GWCCG	1	2736
SacI	GAGCT!C	1	38
SacII	CCGC!GG	2	70; 186
SalI	G!TCGAC	1	57
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	3	568; 2564; 2774
SaqAI	T!TAA	15	805; 921; 982; 1103; 1124; 1135; 1147; 1158; 1175; 1273; 1544; 3363; 3377; 3382; 3434
SatI	GC!NGC	38	102; 105; 186; 348; 441; 609; 663; 666; 783; 867; 997; 1516; 1538; 1552; 1990; 2129; 2181; 2192; 2282; 2287; 2324; 2365; 2452; 2455; 2458; 2694; 2790; 2831; 2845; 2959; 3298; 3313; 3524; 3730; 3733; 3798; 3941; 4096
Sau96I	G!GNCC	10	71; 72; 319; 667; 1327; 2736; 3181; 3227; 3285; 3318
Sau3AI	!GATC	26	27; 78; 128; 552; 587; 599; 633; 732; 835; 877; 2057; 2061; 2080; 2391; 2469; 2550; 2559; 2637; 3013; 3029; 3388; 3400; 3478; 3486; 3497; 3572
Sbfl	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1272; 1704
SchI	!NNNNNGACTC	6	16; 816; 865; 1279; 2885; 3762
SciI	CTC!GAG	1	33
ScrFI	CC!NGG	18	75; 76; 264; 274; 472; 1756; 1811; 1828; 2224; 2384; 2607; 2997; 3186; 3289; 3761; 3979; 3992; 4113
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	396; 1798; 1870; 2039; 3981
SdeAI	!NNNNNNNNNNNNNNNNNNNCTYCTG	3	804; 2375; 2860
SdeOSI	GACNNNNRTGANNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNGTCTNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	15	38; 75; 257; 263; 271; 677; 683; 1411; 2166; 2259; 2333; 2523; 2585; 3295; 3828
SelI	!CGCG	20	67; 183; 414; 453; 738; 768; 867; 1142; 1518; 1538; 1562; 1593; 2284; 2585; 3023; 3107; 3170; 3239; 3512; 4093

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SetI	ASST!	64	38; 44; 140; 175; 221; 292; 329; 349; 368; 388; 425; 430; 464; 497; 680; 703; 710; 716; 793; 797; 805; 814; 819; 851; 910; 931; 940; 952; 1001; 1168; 1283; 1295; 1338; 1375; 1425; 1448; 1572; 1720; 1815; 2008; 2121; 2249; 2328; 2339; 2411; 2482; 2526; 2786; 2932; 2976; 3307; 3338; 3397; 3440; 3583; 3604; 3703; 3840; 3855; 3874; 3886; 3930; 3976; 4027
SexAI	A!CCWGGT	1	1809
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	188; 1036; 1799; 1871; 2519; 2583; 2858
SfaNI	!NNNNNNNNNGATGC	6	192; 213; 2178; 2433; 2649; 4041
SfcI	C!TRYAG	4	52; 1555; 3682; 3873
SfiI	GGCCNNNN!NGGCC	1	1995
SfoI	GGC!GCC	3	108; 297; 2221
Sfr274I	C!TCGAG	1	31
Sfr303I	CCGC!GG	2	70; 186
SfuI	TT!CGAA	2	45; 2902
SgeI	CNNGNNNNNNNNN!	176	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; 830; 851; 875; 927; 956; 998; 1081; 1155; 1239; 1261; 1293; 1330; 1348; 1367; 1382; 1424; 1441; 1458; 1493; 1507; 1524; 1546; 1570; 1594; 1659; 1673; 1711; 1727; 1767; 1780; 1799; 1822; 1839; 1852; 1871; 1901; 1922; 1939; 1962; 1997; 2024; 2055; 2077; 2103; 2125; 2144; 2172; 2208; 2227; 2250; 2264; 2284; 2297; 2311; 2330; 2344; 2363; 2395; 2409; 2422; 2448; 2479; 2492; 2509; 2526; 2540; 2557; 2575; 2590; 2618; 2634; 2653; 2675; 2691; 2714; 2733; 2758; 2777; 2797; 2824; 2848; 2881; 2900; 2928; 2942; 3008; 3032; 3047; 3070; 3091; 3108; 3156; 3183; 3197; 3226; 3250; 3283; 3300; 3320; 3333; 3346; 3404; 3431; 3450; 3480; 3505; 3525; 3539; 3564; 3582; 3619; 3657; 3686; 3714; 3728; 3748; 3763; 3784; 3798; 3817; 3835; 3851; 3891; 3911; 3938; 3956; 3977; 3990; 4003; 4020; 4044; 4067; 4099; 4124; 4151; 4173
SgeI	!NNNNNNNNNNNNNCNNG	153	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; 804; 825; 849; 901; 930; 972; 1055; 1129; 1213; 1235; 1267; 1304; 1322; 1341; 1398; 1415; 1432; 1467; 1485; 1505; 1525; 1544; 1568; 1633; 1685; 1741; 1773; 1796; 1813; 1845; 1875; 1896; 1913; 1936; 1971; 1998; 2029; 2051; 2077; 2099; 2118; 2146; 2182; 2201; 2224; 2245; 2263; 2280; 2304; 2337; 2369; 2396; 2422; 2453; 2483; 2500; 2526; 2549; 2570; 2592; 2612; 2632; 2649; 2688; 2707; 2732; 2751; 2771; 2798; 2822; 2855; 2874; 2902; 2924; 2982; 3006; 3025; 3044; 3065; 3082; 3130; 3157; 3177; 3200; 3224; 3257; 3274; 3294; 3320; 3378; 3405; 3424; 3454; 3479; 3499; 3538; 3556; 3593; 3631; 3660; 3688; 3709; 3737; 3758; 3791; 3809; 3865; 3885; 3912; 3930; 3951; 3977; 3994; 4018; 4041; 4073; 4098; 4125; 4147; 4176
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	1	244
SgrBI	CCGC!GG	2	70; 186
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1367; 3154; 3947
SimI	!GACCC	4	410; 2648; 3216; 3464
SinI	G!GWCC	2	2736; 3181
SlaI	C!TCGAG	1	31
SmaI	CCC!GGG	1	76
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	3	274; 643; 2657
SmlI	C!TYRAG	7	31; 37; 1102; 2611; 3493; 3770; 4032
SmoI	C!TYRAG	7	31; 37; 1102; 2611; 3493; 3770; 4032
SmuI	CCCGCNNNN!	6	421; 1542; 1897; 1918; 3114; 3246
SmuI	!NNNNNNGCGGG	6	62; 1473; 2343; 2880; 3018; 3165
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	354; 1790; 1862; 2625
SrfI	GCCC!GGGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sse9I	!AATT	13	47; 402; 519; 806; 970; 1034; 1112; 1138; 1149; 1796; 1868; 1960; 3378
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2041
SsiI	C!CGC	30	67; 183; 414; 738; 783; 867; 1535; 1538; 1552; 1642; 1890; 1902; 1911; 1923; 1933; 1944; 1990; 2129; 2192; 2694; 2739; 2805; 2831; 2956; 2959; 3107; 3239; 3546; 3690; 4186
SsiI	G!CGG	25	69; 104; 185; 662; 665; 1480; 1507; 1595; 1705; 2286; 2350; 2451; 2454; 2734; 2789; 2887; 3025; 3172; 3312; 3555; 3800; 3921; 3940; 4067; 4095
SspI	AAT!ATT	2	1128; 1681
SspDI	G!GCGCC	3	106; 295; 2219
SspD5I	GGTGANNNNNNNN!	4	288; 435; 3291; 3407
SspD5I	!NNNNNNNNNTCACC	6	374; 515; 593; 726; 1336; 2397
SstI	GAGCT!C	1	38
SstII	CCGC!GG	2	70; 186
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	19	81; 263; 329; 362; 420; 677; 689; 1419; 1541; 1896; 1917; 2230; 2633; 2772; 2843; 3113; 3245; 3475; 3913
Sth132I	!NNNNNNNNCCGGG	16	61; 1420; 1472; 1573; 2300; 2342; 2375; 2879; 2988; 3017; 3164; 3268; 3299; 3752; 3796; 4004
Sth302II	CC!GG	21	20; 76; 86; 246; 606; 1439; 2126; 2203; 2225; 2253; 2384; 2474; 2541; 2722; 2997; 3005; 3097; 3571; 3761; 3787; 3934
StrI	C!TCGAG	1	31
StsI	GGATGNNNNNNNNNN!	8	176; 236; 500; 737; 2088; 2545; 2570; 3024
StsI	!NNNNNNNNNNNNNNCATCC	2	165; 1892
StuI	AGG!CCT	1	2041
StyI	C!CWWGG	4	1949; 2042; 2652; 3057
StyD4I	!CCNGG	18	73; 74; 262; 272; 470; 1754; 1809; 1826; 2222; 2382; 2605; 2995; 3184; 3287; 3759; 3977; 3990; 4111
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	10	63; 765; 1311; 2600; 2716; 2824; 3147; 3638; 4108; 4179
TaiI	ACGT!	13	140; 368; 497; 680; 710; 1283; 1295; 1338; 1448; 2339; 2526; 3307; 3440
TaqI	T!CGA	16	32; 45; 58; 389; 431; 1369; 2060; 2333; 2489; 2513; 2549; 2711; 2902; 2947; 3202; 4040
TaqII	GACCGANNNNNNNNNN!	4	745; 1240; 2257; 2925
TaqII	!NNNNNNNNNTCGGTC	1	3169
TaqII	CACCCANNNNNNNNNN!	1	655
TaqII	!NNNNNNNNNTGGGTG	2	2124; 2716
TasI	!AATT	13	47; 402; 519; 806; 970; 1034; 1112; 1138; 1149; 1796; 1868; 1960; 3378
TatI	W!GTACW	2	446; 539
TauI	GCSG!C	21	107; 188; 665; 668; 785; 869; 1540; 1554; 1992; 2131; 2194; 2289; 2454; 2457; 2696; 2792; 2833; 2961; 3315; 3943; 4098
TfiI	G!AWTC	6	507; 2705; 2839; 2949; 2986; 4164
TliI	C!TCGAG	1	31
Tru1I	T!TAA	15	805; 921; 982; 1103; 1124; 1135; 1147; 1158; 1175; 1273; 1544; 3363; 3377; 3382; 3434
Tru9I	T!TAA	15	805; 921; 982; 1103; 1124; 1135; 1147; 1158; 1175; 1273; 1544; 3363; 3377; 3382; 3434
TscAI	CASTGNN!	7	307; 538; 1066; 2349; 3459; 3730; 3743
TseI	G!CWGC	17	101; 347; 440; 608; 996; 1515; 2180; 2281; 2323; 2364; 2457; 2844; 3297; 3523; 3729; 3732; 3797
TsoI	TARCCANNNNNNNNNN!	2	1192; 1539
TsoI	!NNNNNNNNNTGGYTA	3	350; 997; 2749
Tsp45I	!GTSAC	6	276; 423; 726; 1509; 2340; 2646
Tsp509I	!AATT	13	47; 402; 519; 806; 970; 1034; 1112; 1138; 1149; 1796; 1868; 1960; 3378
TspDTI	ATGAANNNNNNNNNN!	4	661; 978; 2279; 2983
TspDTI	!NNNNNNNNNTTCAT	5	222; 612; 2697; 3153; 3360
TspEI	!AATT	13	47; 402; 519; 806; 970; 1034; 1112; 1138; 1149; 1796; 1868; 1960; 3378
TspGWI	ACGGANNNNNNNNNN!	1	3095
TspGWI	!NNNNNNNNNTCCGT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspMI	C!CCGGG	1	74
TspRI	CASTGNN!	7	307; 538; 1066; 2349; 3459; 3730; 3743
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2338
Tth111II	CAARCANNNNNNNNNN!	1	3547
Tth111II	!NNNNNNNNNTGYTTG	3	2655; 3515; 3554
UnbI	!GGNCC	10	70; 71; 318; 666; 1326; 2735; 3180; 3226; 3284; 3317
Van91I	CCANNNN!NTGG	1	498
Vha464I	C!TTAAG	1	1102
VneI	G!TGCAC	2	673; 3824
VpaK11AI	!GGWCC	2	2735; 3180
VpaK11BI	G!GWCC	2	2736; 3181
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	47; 1034; 1138; 1149
XbaI	T!CTAGA	1	874
XceI	RCATG!Y	5	354; 1790; 1862; 2625; 4142
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	31
XhoII	R!GATCY	12	27; 78; 128; 587; 835; 2391; 2637; 3029; 3388; 3400; 3486; 3497
XmaI	C!CCGGG	1	74
XmaJI	C!CTAGG	2	2042; 3057
XmiI	GT!MKAC	1	58
XmnI	GAANN!NNTTC	1	334
XspI	C!TAG	8	10; 875; 1069; 1487; 2043; 3058; 3392; 3645
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	1792; 1864; 4195