

pCop-Green-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	957; 1162
AarI	CACCTGCNNNN!	1	527
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1245; 2201; 3990
AatI	AGG!CCT	1	1995
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	58
AccII	CG!CG	18	69; 422; 578; 683; 823; 1098; 1474; 1494; 1518; 1549; 2240; 2541; 2979; 3063; 3126; 3195; 3468; 4049
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2276
Acc36I	ACCTGCNNNN!	4	254; 527; 2442; 2892
Acc36I	!NNNNNNNNGCAGGT	1	2061
Acc65I	G!GTACC	1	63
AccB1I	G!GYRCC	9	63; 130; 175; 223; 286; 448; 1327; 2173; 2208
AccB7I	CCANNNN!NTGG	1	261
AccBSI	CCG!CTC	2	1598; 2787
AccBSI	GAG!CGG	2	1434; 2841
AceIII	CAGCTCNNNNNNN!	1	1130
AceIII	!NNNNNNNNNNGAGCTG	3	142; 679; 697
AciI	C!CGC	37	67; 101; 120; 192; 354; 405; 420; 495; 561; 678; 681; 788; 821; 1489; 1492; 1506; 1596; 1844; 1856; 1865; 1877; 1887; 1898; 1944; 2083; 2146; 2648; 2693; 2759; 2785; 2910; 2913; 3061; 3193; 3500; 3644; 4140
AciI	G!CGG	27	69; 164; 167; 299; 338; 377; 584; 1434; 1461; 1549; 1659; 2240; 2304; 2405; 2408; 2688; 2743; 2841; 2979; 3126; 3266; 3509; 3754; 3875; 3894; 4021; 4049
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	86; 822; 2042; 2353; 2599; 2991; 3350; 3448; 3534
AclWI	!NNNNNGATCC	6	73; 758; 2418; 2962; 3349; 3446
AcoI	Y!GGCCR	6	417; 818; 2080; 2254; 2645; 2672
AcsI	R!AATTY	4	47; 988; 1092; 1103
AcuI	CTGAAGNNNNNNNNNNNNNNN!	2	2320; 2752
AcuI	!NNNNNNNNNNNNNCTTCAG	4	219; 381; 552; 3550
AcvI	CAC!GTG	2	258; 390
AcyI	GR!CGYC	4	224; 2174; 2876; 2955
AdeI	CACNNN!GTG	1	1290
AfaI	GT!AC	4	65; 367; 727; 2480
AfeI	AGC!GCT	1	14
AfiI	CCNNNNN!NNGG	19	186; 261; 411; 684; 1186; 1512; 1904; 2155; 2699; 2980; 3012; 3144; 3179; 3229; 3261; 3614; 3893; 4059; 4077
AfII	C!TTAAG	1	1056
AfIII	A!CRYGT	1	4092
AgeI	A!CCGGT	1	84
AgsI	TTS!AA	8	438; 624; 741; 1585; 1629; 1639; 2052; 3628
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	10	773; 1708; 1763; 1780; 2559; 3138; 3241; 3931; 3944; 4065
AjuI	GAANNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNCCAANNNNNNTTC	0	
AjuI	CCAANNNNNNTTCNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNTTGG	0	
AleI	CACNN!NNGTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	1748; 1820
AlfI	!NNNNNNNNNNNGCANNNNNNTGC	2	1714; 1786
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1256
AloI	!NNNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1224
AluI	AG!CT	20	36; 42; 156; 395; 401; 554; 596; 693; 711; 953; 1120; 1377; 1672; 1960; 2280; 2738; 3535; 3792; 3838; 3928
AluBI	AG!CT	20	36; 42; 156; 395; 401; 554; 596; 693; 711; 953; 1120; 1377; 1672; 1960; 2280; 2738; 3535; 3792; 3838; 3928
AlwI	GGATCNNNN!	9	86; 822; 2042; 2353; 2599; 2991; 3350; 3448; 3534
AlwI	!NNNNNGATCC	6	73; 758; 2418; 2962; 3349; 3446
Alw21I	GWGCW!C	6	38; 217; 518; 2287; 2477; 3782
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	4	1598; 2016; 3035; 3163
Alw44I	G!TGCAC	1	3778
AlwNI	CAGNNN!CTG	2	3275; 3683
Ama87I	C!YCGRG	4	31; 74; 181; 460
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	14
ApaI	GGGCC!C	2	75; 664
ApaBI	GCANNNNN!TGC	3	1742; 1814; 3276
ApaLI	G!TGCAC	1	3778
ApeKI	G!CWGC	17	384; 497; 551; 693; 950; 1469; 2134; 2235; 2277; 2318; 2411; 2798; 3251; 3477; 3683; 3686; 3751
ApoI	R!AATTY	4	47; 988; 1092; 1103
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2689
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	2483; 3136; 3974
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	2	831; 2573
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	713; 2002
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	2	438; 2744
ArsI	GACNNNNNTTYGNNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	26	28; 79; 111; 426; 474; 489; 750; 764; 815; 832; 2012; 2016; 2035; 2346; 2424; 2505; 2514; 2592; 2968; 2984; 3343; 3355; 3433; 3441; 3452; 3527
AsiGI	A!CCGGT	1	84
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2292
Asp700I	GAANN!NNTTC	1	313
Asp718I	G!GTACC	1	63
AspA2I	C!CTAGG	2	1996; 3011
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	24	15; 226; 578; 631; 1440; 1448; 1474; 1496; 1505; 1518; 1549; 2168; 2176; 2240; 2277; 2543; 2803; 2979; 3065; 3468; 3577; 3751; 3851; 3918
AspS9I	G!GNCC	12	71; 72; 189; 660; 661; 808; 1281; 2690; 3135; 3181; 3239; 3272
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	45; 2856
AsuC2I	CC!SGG	7	75; 76; 812; 2178; 2338; 2951; 3715
AsuHPI	GGTGANNNNNNNNN!	2	3245; 3361
AsuHPI	!NNNNNNNTCACC	4	117; 471; 1291; 2352
AsuNHI	G!CTAGC	0	
AvaI	C!YCGRG	4	31; 74; 181; 460
AvaII	G!GWCC	3	808; 2690; 3135
AviII	TGC!GCA	1	2276
AvrII	C!CTAGG	2	1996; 3011
AxyI	CC!TNAGG	2	1654; 3286

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BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGCMI:C	7	75; 178; 451; 664; 2120; 2213; 3782
BalI	TGG!CCA	1	2256
BamHI	G!GATCC	1	78
BanI	G!GYRCC	9	63; 130; 175; 223; 286; 448; 1327; 2173; 2208
BanII	GRGCY!C	7	38; 75; 664; 774; 1365; 2539; 3249
BanIII	AT!CGAT	1	2014
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	261
BauI	C!ACGAG	2	2892; 3919
BauI	C!TCGTG	1	2766
BbeI	GGCGC!C	2	227; 2177
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	2	258; 390
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	1744; 1816; 2579
BbvI	GCAGCNNNNNN!	8	509; 563; 962; 2247; 2289; 2810; 3263; 3763
BbvI	!NNNNNNNNNNNGCTGC	8	371; 680; 1456; 2121; 2305; 2398; 3464; 3670
Bbv12I	GWGCW!C	6	38; 217; 518; 2287; 2477; 3782
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	334; 640; 1304; 1868; 2394; 2896
BccI	!NNNNNGATGG	5	255; 790; 1272; 2052; 2480
BceAI	ACGGCNNNNNNNNNN!	7	156; 285; 351; 390; 597; 2600; 3087
BceAI	!NNNNNNNNNNNGCCGT	4	775; 1315; 2133; 3592
Bcefl	ACGGCNNNNNNNNNN!	7	156; 285; 351; 390; 597; 2600; 3087
Bcefl	!NNNNNNNNNNNGCCGT	4	776; 1316; 2134; 3593
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNN!	3	1603; 2393; 3894
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	7	75; 76; 812; 2178; 2338; 2951; 3715
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	4027
BdaI	!NNNNNNNNNTGANNNNNTCA	1	3993
BfaI	C!TAG	8	10; 829; 1023; 1441; 1997; 3012; 3346; 3599
BfiI	ACTGGGNNNN!	1	2123
BfiI	!NNNCCCAGT	1	1875
BfmI	C!TRYAG	6	52; 591; 649; 1509; 3636; 3827
BfoI	RGCGC!Y	7	16; 227; 632; 1441; 1449; 2177; 3852
BfrI	C!TTAAG	1	1056
BfuI	GTATCCNNNNN!	3	1603; 2393; 3894
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	254; 527; 2442; 2892
BfuAI	!NNNNNNNGCAGGT	1	2061
BfuCI	!GATC	26	27; 78; 110; 425; 473; 488; 749; 763; 814; 831; 2011; 2015; 2034; 2345; 2423; 2504; 2513; 2591; 2967; 2983; 3342; 3354; 3432; 3440; 3451; 3526
BglI	GCCNNNN!NGGC	1	1949
BglII	A!GATCT	1	27
BisI	GC!NGC	42	120; 165; 192; 300; 339; 378; 385; 420; 498; 552; 585; 681; 694; 821; 951; 1470; 1492; 1506; 1944; 2083; 2135; 2146; 2236; 2241; 2278; 2319; 2406; 2409; 2412; 2648; 2744; 2785; 2799; 2913; 3252; 3267; 3478; 3684; 3687; 3752; 3895; 4050

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BlnI	C!CTAGG	2	1996; 3011
BlpI	GC!TNAGC	1	250
BlsI	GCN!GC	42	121; 166; 193; 301; 340; 379; 386; 421; 499; 553; 586; 682; 695; 822; 952; 1471; 1493; 1507; 1945; 2084; 2136; 2147; 2237; 2242; 2279; 2320; 2407; 2410; 2413; 2649; 2745; 2786; 2800; 2914; 3253; 3268; 3479; 3685; 3688; 3753; 3896; 4051
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	808; 2690; 3135
Bme1390I	CC!NGG	17	75; 76; 775; 812; 1710; 1765; 1782; 2178; 2338; 2561; 2951; 3140; 3243; 3715; 3933; 3946; 4067
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	31; 74; 181; 460
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	12	72; 73; 190; 661; 662; 809; 1282; 2691; 3136; 3182; 3240; 3273
BmiI	GGN!NCC	22	65; 73; 80; 132; 177; 225; 288; 450; 662; 1329; 1350; 1362; 1553; 1714; 1786; 2175; 2210; 3058; 3137; 3182; 4025; 4064
BmrI	ACTGGGNNNNN!	1	2123
BmrI	!NNNNCCCAGT	1	1875
BmrFI	CC!NGG	17	75; 76; 775; 812; 1710; 1765; 1782; 2178; 2338; 2561; 2951; 3140; 3243; 3715; 3933; 3946; 4067
BmsI	GCATCNNNNN!	10	131; 365; 653; 725; 990; 1753; 1825; 2473; 2537; 2812
BmsI	!NNNNNNNNNGATGC	4	2132; 2387; 2603; 3995
BmtI	GCTAG!C	0	
BmuI	ACTGGGNNNNN!	1	2123
BmuI	!NNNNCCCAGT	1	1875
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	1963; 2862
BpI	!NNNNNNNGAGNNNNNCTC	2	1931; 2830
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3014
BpmI	!NNNNNNNNNNNNNNNCTCCAG	1	2957
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	45; 2856
Bpu1102I	GC!TNAGC	1	250
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	3468; 4007
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	22; 2550; 3709
BpuMI	CC!SGG	7	75; 76; 812; 2178; 2338; 2951; 3715
BpvUI	CGAT!CG	1	752
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3163
Bsa29I	AT!CGAT	1	2014
BsaAI	YAC!GTR	4	258; 390; 1290; 2478
BsaBI	GATNN!NNATC	2	836; 2033
BsaHI	GR!CGYC	4	224; 2174; 2876; 2955
BsaJI	C!CNNGG	22	67; 74; 218; 461; 509; 527; 773; 791; 1708; 1780; 1903; 1938; 1947; 1996; 2337; 2606; 3011; 3138; 3139; 3241; 3242; 3932
BsaMI	GAATGCN!	1	925
BsaMI	G!CATTC	2	754; 1018
BsaWI	W!CCGGW	6	18; 84; 2205; 3049; 3739; 3886
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1254
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1224
BsbI	CAACACNNNNNNNNNNNNNNNN!	2	374; 728
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	1175; 3082
Bsc4I	CCNNNNN!NNGG	19	186; 261; 411; 684; 1186; 1512; 1904; 2155; 2699; 2980; 3012; 3144; 3179; 3229; 3261; 3614; 3893; 4059; 4077
BscAI	GCATCNNNN!	10	130; 364; 652; 724; 989; 1752; 1824; 2472; 2536; 2811
BscAI	!NNNNNGATGC	4	2135; 2390; 2606; 3998
BseI	ACTGGN!	3	2118; 2319; 3565

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BseI	C!CAGT	4	1203; 1881; 3677; 3690
Bse8I	GATNN!NNATC	2	836; 2033
Bse21I	CC!TNAGG	2	1654; 3286
Bse118I	R!CCGGY	8	84; 127; 415; 451; 1391; 2493; 2674; 2957
BseAI	T!CCGGA	0	
BseBI	CC!WGG	10	775; 1710; 1765; 1782; 2561; 3140; 3243; 3933; 3946; 4067
BseCI	AT!CGAT	1	2014
BseDI	C!CNNGG	22	67; 74; 218; 461; 509; 527; 773; 791; 1708; 1780; 1903; 1938; 1947; 1996; 2337; 2606; 3011; 3138; 3139; 3241; 3242; 3932
Bse3DI	GCAATGNN!	1	2407
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	801; 2034; 2491; 2516; 2970
BseGI	!CATCC	4	491; 632; 644; 1860
BseJI	GATNN!NNATC	2	836; 2033
BseLI	CCNNNNN!NNGG	19	186; 261; 411; 684; 1186; 1512; 1904; 2155; 2699; 2980; 3012; 3144; 3179; 3229; 3261; 3614; 3893; 4059; 4077
BseMI	GCAATGNN!	1	2407
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	38; 3300
BseMII	!NNNNNNNNCTGAG	6	241; 1645; 1947; 2828; 3400; 3809
BseNI	ACTGGN!	3	2118; 2319; 3565
BseNI	C!CAGT	4	1203; 1881; 3677; 3690
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNN!	2	703; 1992
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	7	75; 178; 451; 664; 2120; 2213; 3782
BseXI	GCAGNNNNNNNN!	8	509; 563; 962; 2247; 2289; 2810; 3263; 3763
BseXI	!NNNNNNNNNNNGCTGC	8	371; 680; 1456; 2121; 2305; 2398; 3464; 3670
BseX3I	C!GGCCG	3	417; 818; 2080
BseYI	C!CCAGC	5	295; 640; 1717; 1789; 3788
BseYI	G!CTGGG	2	711; 2678
BsgI	GTGCAGNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	4	304; 370; 505; 679
Bsh1236I	CG!CG	18	69; 422; 578; 683; 823; 1098; 1474; 1494; 1518; 1549; 2240; 2541; 2979; 3063; 3126; 3195; 3468; 4049
Bsh1285I	CGRY!CG	6	89; 420; 752; 821; 2083; 3758
BshFI	GG!CC	24	73; 191; 415; 419; 662; 778; 820; 1140; 1282; 1937; 1943; 1952; 1995; 2082; 2256; 2647; 2674; 3183; 3240; 3273; 3618; 4052; 4070; 4081
BshNI	G!GYRCC	9	63; 130; 175; 223; 286; 448; 1327; 2173; 2208
BshTI	A!CCGGT	1	84
BshVI	AT!CGAT	1	2014
BsiEI	CGRY!CG	6	89; 420; 752; 821; 2083; 3758
BsiHKAI	GWGCW!C	6	38; 217; 518; 2287; 2477; 3782
BsiHKCI	C!YCGRG	4	31; 74; 181; 460
BsiSI	C!CGG	24	19; 75; 85; 128; 416; 452; 806; 811; 1392; 2079; 2156; 2178; 2206; 2337; 2427; 2494; 2675; 2950; 2958; 3050; 3524; 3714; 3740; 3887
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	19	186; 261; 411; 684; 1186; 1512; 1904; 2155; 2699; 2980; 3012; 3144; 3179; 3229; 3261; 3614; 3893; 4059; 4077
BsIFI	GGGACNNNNNNNNNN!	3	2325; 2857; 2966
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1690; 1762; 1826; 3121
BsmI	GAATGCN!	1	925
BsmI	G!CATTC	2	754; 1018
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	4	1598; 2016; 3035; 3163
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2325; 2857; 2966
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1690; 1762; 1826; 3121
BsnI	GG!CC	24	73; 191; 415; 419; 662; 778; 820; 1140; 1282; 1937; 1943; 1952; 1995; 2082; 2256; 2647; 2674; 3183; 3240; 3273; 3618; 4052; 4070; 4081
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3163

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BsoBI	C!YCGRG	4	31; 74; 181; 460
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	527; 1903; 2606
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	2977
Bsp24I	!NNNNNNCCANNNNNGTC	2	3398; 3576
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3430; 3608
Bsp24I	!NNNNNNNGACNNNNNTGG	1	2945
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	45; 2856
Bsp120I	G!GGCCC	2	71; 660
Bsp143I	!GATC	26	27; 78; 110; 425; 473; 488; 749; 763; 814; 831; 2011; 2015; 2034; 2345; 2423; 2504; 2513; 2591; 2967; 2983; 3342; 3354; 3432; 3440; 3451; 3526
Bsp1286I	GDGCH!C	16	38; 75; 178; 217; 451; 518; 664; 774; 1365; 2120; 2213; 2287; 2477; 2539; 3249; 3782
Bsp1407I	T!GTACA	0	
Bsp1720I	GC!TNAGC	1	250
BspACI	C!CGC	37	67; 101; 120; 192; 354; 405; 420; 495; 561; 678; 681; 788; 821; 1489; 1492; 1506; 1596; 1844; 1856; 1865; 1877; 1887; 1898; 1944; 2083; 2146; 2648; 2693; 2759; 2785; 2910; 2913; 3061; 3193; 3500; 3644; 4140
BspACI	G!CGG	27	69; 164; 167; 299; 338; 377; 584; 1434; 1461; 1549; 1659; 2240; 2304; 2405; 2408; 2688; 2743; 2841; 2979; 3126; 3266; 3509; 3754; 3875; 3894; 4021; 4049
BspCNI	CTCAGNNNNNNNN!	2	37; 3299
BspCNI	!NNNNNNNCTGAG	6	242; 1646; 1948; 2829; 3401; 3810
BspDI	AT!CGAT	1	2014
BspD6I	GACTCNNNN!	5	30; 833; 1247; 2853; 3730
BspD6I	!NNNNNGAGTC	2	1210; 1642
BspEI	T!CCGGA	0	
BspFNI	CG!CG	18	69; 422; 578; 683; 823; 1098; 1474; 1494; 1518; 1549; 2240; 2541; 2979; 3063; 3126; 3195; 3468; 4049
BspHI	T!CATGA	2	1600; 3372
BspLI	GGN!NCC	22	65; 73; 80; 132; 177; 225; 288; 450; 662; 1329; 1350; 1362; 1553; 1714; 1786; 2175; 2210; 3058; 3137; 3182; 4025; 4064
BspMI	ACCTGCNNNN!	4	254; 527; 2442; 2892
BspMI	!NNNNNNNNGCAGGT	1	2061
BspOI	GCTAG!C	0	
BspPI	GGATCNNNN!	9	86; 822; 2042; 2353; 2599; 2991; 3350; 3448; 3534
BspPI	!NNNNNGATCC	6	73; 758; 2418; 2962; 3349; 3446
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	205; 2518; 2728
BspTI	C!TTAAG	1	1056
BspT104I	TT!CGAA	2	45; 2856
BspT107I	G!GYRCC	9	63; 130; 175; 223; 286; 448; 1327; 2173; 2208
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3163
BsrI	ACTGGN!	3	2118; 2319; 3565
BsrI	C!CAGT	4	1203; 1881; 3677; 3690
BsrBI	CCG!CTC	2	1598; 2787
BsrBI	GAG!CGG	2	1434; 2841
BsrDI	GCAATGNN!	1	2407
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	8	84; 127; 415; 451; 1391; 2493; 2674; 2957
BsrGI	T!GTACA	0	
BsrSI	ACTGGN!	3	2118; 2319; 3565
BsrSI	C!CAGT	4	1203; 1881; 3677; 3690
BssAI	R!CCGGY	8	84; 127; 415; 451; 1391; 2493; 2674; 2957
BssECI	C!CNNGG	22	67; 74; 218; 461; 509; 527; 773; 791; 1708; 1780; 1903; 1938; 1947; 1996; 2337; 2606; 3011; 3138; 3139; 3241; 3242; 3932
BssHII	G!CGCGC	0	
BssKI	!CCNGG	17	73; 74; 773; 810; 1708; 1763; 1780; 2176; 2336; 2559; 2949; 3138; 3241; 3713; 3931; 3944; 4065
BssMI	!GATC	26	27; 78; 110; 425; 473; 488; 749; 763; 814; 831; 2011; 2015; 2034; 2345; 2423; 2504; 2513; 2591; 2967; 2983; 3342; 3354; 3432; 3440; 3451; 3526

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssNI	GR!CGYC	4	224; 2174; 2876; 2955
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	2892; 3919
BssSI	C!TCGTG	1	2766
BssTII	C!CWWGG	6	218; 527; 1903; 1996; 2606; 3011
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	205; 1641; 2518; 2728
Bst98I	C!TTAAG	1	1056
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	4	224; 2174; 2876; 2955
BstAFI	C!TTAAG	1	1056
BstAPI	GCANNNN!NTGC	3	1741; 1813; 3275
BstAUI	T!GTACA	0	
BstBI	TT!CGAA	2	45; 2856
Bst2BI	C!ACGAG	2	2892; 3919
Bst2BI	C!TCGTG	1	2766
BstBAI	YAC!GTR	4	258; 390; 1290; 2478
Bst4CI	ACN!GT	10	63; 510; 1265; 2554; 2670; 2778; 3101; 3592; 4062; 4133
BstC8I	GCN!NGC	33	71; 101; 323; 382; 417; 561; 574; 734; 780; 1393; 1436; 1450; 1723; 1742; 1795; 1814; 2068; 2254; 2473; 2539; 2545; 2577; 2618; 2622; 2676; 2959; 3146; 3193; 3249; 3271; 3482; 4042; 4079
BstDEI	C!TNAG	8	24; 250; 1654; 1956; 2837; 3286; 3409; 3818
BstDSI	C!CRYGG	6	67; 509; 527; 791; 1903; 2606
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	5	801; 2034; 2491; 2516; 2970
BstF5I	!CATCC	4	491; 632; 644; 1860
BstFNI	CG!CG	18	69; 422; 578; 683; 823; 1098; 1474; 1494; 1518; 1549; 2240; 2541; 2979; 3063; 3126; 3195; 3468; 4049
BstH2I	RGCGC!Y	7	16; 227; 632; 1441; 1449; 2177; 3852
BstHHI	GCG!C	24	15; 226; 578; 631; 1440; 1448; 1474; 1496; 1505; 1518; 1549; 2168; 2176; 2240; 2277; 2543; 2803; 2979; 3065; 3468; 3577; 3751; 3851; 3918
BstKTI	GAT!C	26	30; 81; 113; 428; 476; 491; 752; 766; 817; 834; 2014; 2018; 2037; 2348; 2426; 2507; 2516; 2594; 2970; 2986; 3345; 3357; 3435; 3443; 3454; 3529
BstMAI	GTCTCN!	0	
BstMAI	!NNNNGAGAC	4	1598; 2016; 3035; 3163
BstMBI	!GATC	26	27; 78; 110; 425; 473; 488; 749; 763; 814; 831; 2011; 2015; 2034; 2345; 2423; 2504; 2513; 2591; 2967; 2983; 3342; 3354; 3432; 3440; 3451; 3526
BstMCI	CGRY!CG	6	89; 420; 752; 821; 2083; 3758
BstMWI	GCNNNNN!NNGC	25	128; 173; 221; 428; 560; 584; 1401; 1431; 1458; 1500; 1741; 1813; 1864; 1943; 2165; 2249; 2272; 2411; 2534; 2617; 2884; 3071; 3275; 3474; 4046
BstNI	CC!WGG	10	775; 1710; 1765; 1782; 2561; 3140; 3243; 3933; 3946; 4067
BstNSI	RCATG!Y	5	618; 1744; 1816; 2579; 4096
BstOI	CC!WGG	10	775; 1710; 1765; 1782; 2561; 3140; 3243; 3933; 3946; 4067
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	17	73; 74; 773; 810; 1708; 1763; 1780; 2176; 2336; 2559; 2949; 3138; 3241; 3713; 3931; 3944; 4065
BstSFI	C!TRYAG	6	52; 591; 649; 1509; 3636; 3827
BstSLI	GKGC!C	7	75; 178; 451; 664; 2120; 2213; 3782
BstSNI	TAC!GTA	0	
BstUI	CG!CG	18	69; 422; 578; 683; 823; 1098; 1474; 1494; 1518; 1549; 2240; 2541; 2979; 3063; 3126; 3195; 3468; 4049
Bst2UI	CC!WGG	10	775; 1710; 1765; 1782; 2561; 3140; 3243; 3933; 3946; 4067
BstV1I	GCAGC!NNNNNNN!	8	509; 563; 962; 2247; 2289; 2810; 3263; 3763
BstV1I	!NNNNNNNNNNNGCTGC	8	371; 680; 1456; 2121; 2305; 2398; 3464; 3670
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	10	27; 78; 763; 2345; 2591; 2983; 3342; 3354; 3440; 3451
BstYI	R!GATCY	10	27; 78; 763; 2345; 2591; 2983; 3342; 3354; 3440; 3451

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstZI	C!GGCCG	3	417; 818; 2080
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	1603; 2393; 3894
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2014
Bsu36I	CC!TNAGG	2	1654; 3286
BsuRI	GG!CC	24	73; 191; 415; 419; 662; 778; 820; 1140; 1282; 1937; 1943; 1952; 1995; 2082; 2256; 2647; 2674; 3183; 3240; 3273; 3618; 4052; 4070; 4081
BsuTUI	AT!CGAT	1	2014
BtgI	C!CRYGG	6	67; 509; 527; 791; 1903; 2606
BtgZI	GCGATGNNNNNNNNNN!	2	1291; 2626
BtgZI	!NNNNNNNNNNNNNNCATCGC	2	2445; 2789
BthCI	GCNG!C	42	122; 167; 194; 302; 341; 380; 387; 422; 500; 554; 587; 683; 696; 823; 953; 1472; 1494; 1508; 1946; 2085; 2137; 2148; 2238; 2243; 2280; 2321; 2408; 2411; 2414; 2650; 2746; 2787; 2801; 2915; 3254; 3269; 3480; 3686; 3689; 3754; 3897; 4052
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1013
BtsCI	GGATGNN!	5	801; 2034; 2491; 2516; 2970
BtsCI	!CATCC	4	491; 632; 644; 1860
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	254; 527; 2442; 2892
BveI	!NNNNNNNNGCAGGT	1	2061
Cac8I	GCN!NGC	33	71; 101; 323; 382; 417; 561; 574; 734; 780; 1393; 1436; 1450; 1723; 1742; 1795; 1814; 2068; 2254; 2473; 2539; 2545; 2577; 2618; 2622; 2676; 2959; 3146; 3193; 3249; 3271; 3482; 4042; 4079
CaiI	CAGNNN!CTG	2	3275; 3683
CciI	T!CATGA	2	1600; 3372
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	6	360; 720; 2463; 2468; 2666; 2807
CdiI	C!GATG	2	1277; 2612
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	2	192; 4046
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	767; 1835; 1877
CelII	GC!TNAGC	1	250
CfoI	GCG!C	24	15; 226; 578; 631; 1440; 1448; 1474; 1496; 1505; 1518; 1549; 2168; 2176; 2240; 2277; 2543; 2803; 2979; 3065; 3468; 3577; 3751; 3851; 3918
CfrI	Y!GGCCR	6	417; 818; 2080; 2254; 2645; 2672
Cfr9I	C!CCGGG	1	74
Cfr10I	R!CCGGY	8	84; 127; 415; 451; 1391; 2493; 2674; 2957
Cfr13I	G!GNCC	12	71; 72; 189; 660; 661; 808; 1281; 2690; 3135; 3181; 3239; 3272
Cfr42I	CCGC!GG	1	70
ChaI	GATC!	26	31; 82; 114; 429; 477; 492; 753; 767; 818; 835; 2015; 2019; 2038; 2349; 2427; 2508; 2517; 2595; 2971; 2987; 3346; 3358; 3436; 3444; 3455; 3530
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	4	1991; 3431; 3531; 3609
CjeI	!NNNNNNNNNACNNNNNNNTGG	5	1658; 1753; 2945; 3495; 4050
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	5	1692; 1787; 2979; 3529; 4084
CjeI	!NNNNNNNNCCANNNNNNGT	4	1957; 3397; 3497; 3575
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	2	3431; 3609
CjePI	!NNNNNNNNNGANNNNNNNNTGG	2	2945; 3544
CjePI	GANNNNNNNNTGGNNNNNNNNNNNNNN!	2	2978; 3577
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	3398; 3576
ClaI	AT!CGAT	1	2014
CpoI	CG!GWCCG	2	808; 2690
CseI	GACGCNNNNN!	2	2884; 2963
CseI	!NNNNNNNNNNGCGTC	3	1507; 3402; 3980
CsiI	A!CCWGGT	1	1763
CspI	CG!GWCCG	2	808; 2690
Csp6I	G!TAC	4	64; 366; 726; 2479
Csp45I	TT!CGAA	2	45; 2856

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspAI	A!CCGGT	1	84
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	2	1454; 3063
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	19	96; 105; 195; 528; 615; 666; 1601; 1741; 1813; 1904; 2045; 2390; 2576; 2607; 2633; 2989; 3373; 4093; 4144
CviJI	RG!CY	94	36; 42; 73; 156; 191; 239; 254; 266; 272; 302; 341; 395; 401; 415; 419; 455; 554; 572; 587; 596; 611; 662; 693; 711; 772; 778; 805; 820; 843; 953; 1120; 1140; 1282; 1363; 1377; 1391; 1672; 1713; 1785; 1908; 1937; 1943; 1952; 1960; 1983; 1995; 2001; 2082; 2099; 2107; 2134; 2159; 2243; 2252; 2256; 2280; 2318; 2394; 2411; 2430; 2493; 2537; 2547; 2564; 2647; 2674; 2678; 2715; 2738; 2754; 2934; 2961; 3022; 3144; 3183; 3240; 3247; 3254; 3273; 3284; 3535; 3564; 3607; 3618; 3683; 3762; 3787; 3792; 3838; 3928; 4026; 4052; 4070; 4081
CviKI-1	RG!CY	94	36; 42; 73; 156; 191; 239; 254; 266; 272; 302; 341; 395; 401; 415; 419; 455; 554; 572; 587; 596; 611; 662; 693; 711; 772; 778; 805; 820; 843; 953; 1120; 1140; 1282; 1363; 1377; 1391; 1672; 1713; 1785; 1908; 1937; 1943; 1952; 1960; 1983; 1995; 2001; 2082; 2099; 2107; 2134; 2159; 2243; 2252; 2256; 2280; 2318; 2394; 2411; 2430; 2493; 2537; 2547; 2564; 2647; 2674; 2678; 2715; 2738; 2754; 2934; 2961; 3022; 3144; 3183; 3240; 3247; 3254; 3273; 3284; 3535; 3564; 3607; 3618; 3683; 3762; 3787; 3792; 3838; 3928; 4026; 4052; 4070; 4081
CviQI	G!TAC	4	64; 366; 726; 2479
DdeI	C!TNAG	8	24; 250; 1654; 1956; 2837; 3286; 3409; 3818
DinI	GGC!GCC	2	225; 2175
DpnI	GA!TC	26	29; 80; 112; 427; 475; 490; 751; 765; 816; 833; 2013; 2017; 2036; 2347; 2425; 2506; 2515; 2593; 2969; 2985; 3344; 3356; 3434; 3442; 3453; 3528
DpnII	!GATC	26	27; 78; 110; 425; 473; 488; 749; 763; 814; 831; 2011; 2015; 2034; 2345; 2423; 2504; 2513; 2591; 2967; 2983; 3342; 3354; 3432; 3440; 3451; 3526
DraI	TTT!AAA	3	876; 3318; 3337
DraII	RG!GNCCY	2	660; 3272
DraIII	CACNNN!GTG	1	1290
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	1	3654
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	1245; 2201; 3990
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1245; 2201; 3990
EaeI	Y!GGCCR	6	417; 818; 2080; 2254; 2645; 2672
EagI	C!GGCCG	3	417; 818; 2080
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	205; 1641; 2518; 2728
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	4	205; 1641; 2518; 2728
EciI	GGCGGANNNNNNNNNNNN!	5	182; 1674; 2703; 3890; 4036
EciI	!NNNNNNNNNTCCGCC	5	667; 777; 1845; 1866; 1887
Ecl136II	GAG!CTC	1	36
EclXI	C!GGCCG	3	417; 818; 2080
Eco24I	GRGCY!C	7	38; 75; 664; 774; 1365; 2539; 3249
Eco31I	GGTTCN!	0	
Eco31I	!NNNNNGAGACC	1	3163
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	808; 2690; 3135
Eco47III	AGC!GCT	1	14
Eco52I	C!GGCCG	3	417; 818; 2080
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	2	2320; 2752
Eco57I	!NNNNNNNNNNNNNCTTCAG	4	219; 381; 552; 3550
Eco72I	CAC!GTG	2	258; 390

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco8II	CC!TNAGG	2	1654; 3286
Eco88I	C!YCGRG	4	31; 74; 181; 460
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	6	218; 527; 1903; 1996; 2606; 3011
Eco147I	AGG!CCT	1	1995
EcoHI	!CCSGG	7	73; 74; 810; 2176; 2336; 2949; 3713
EcoICRI	GAG!CTC	1	36
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	3	2320; 2752; 3014
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	219; 381; 552; 2957; 3550
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	2	660; 3272
EcoRI	G!AATTC	1	47
EcoRII	!CCWGG	10	773; 1708; 1763; 1780; 2559; 3138; 3241; 3931; 3944; 4065
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	218; 527; 1903; 1996; 2606; 3011
EcoT22I	ATGCA!T	3	1746; 1818; 4149
EcoT38I	GRGCY!C	7	38; 75; 664; 774; 1365; 2539; 3249
Eco53kI	GAG!CTC	1	36
EgeI	GGC!GCC	2	225; 2175
EheI	GGC!GCC	2	225; 2175
ErhI	C!CWWGG	6	218; 527; 1903; 1996; 2606; 3011
EsaBC3I	TC!GA	17	33; 46; 59; 114; 153; 360; 1324; 2015; 2288; 2444; 2468; 2504; 2666; 2857; 2902; 3157; 3995
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	19	99; 108; 198; 531; 618; 669; 1604; 1744; 1816; 1907; 2048; 2393; 2579; 2610; 2636; 2992; 3376; 4096; 4147
Fail	YA!TR	43	97; 106; 196; 529; 616; 667; 836; 846; 912; 957; 1162; 1590; 1602; 1733; 1742; 1805; 1814; 1838; 1905; 1929; 2046; 2110; 2391; 2416; 2577; 2608; 2634; 2706; 2922; 2990; 3068; 3120; 3281; 3298; 3300; 3302; 3374; 3652; 3841; 3957; 4030; 4094; 4145
FaI	AAGNNNNNCTNNNNNNNNNNNN!	1	2514
FaI	!NNNNNNNNNAAGNNNNNCTT	1	2482
FaqI	GGGACNNNNNNNNNN!	3	2325; 2857; 2966
FaqI	!NNNNNNNNNNNNNGTCCC	4	1690; 1762; 1826; 3121
FatI	!CATG	19	95; 104; 194; 527; 614; 665; 1600; 1740; 1812; 1903; 2044; 2389; 2575; 2606; 2632; 2988; 3372; 4092; 4143
FauI	CCCGCNNNN!	8	108; 361; 568; 1496; 1851; 1872; 3068; 3200
FauI	!NNNNNNGCGGG	6	62; 1427; 2297; 2834; 2972; 3119
FauNDI	CA!TATG	0	
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	58
FmuI	GGNC!C	12	74; 75; 192; 663; 664; 811; 1284; 2693; 3138; 3184; 3242; 3275
Fnu4HI	GC!NGC	42	120; 165; 192; 300; 339; 378; 385; 420; 498; 552; 585; 681; 694; 821; 951; 1470; 1492; 1506; 1944; 2083; 2135; 2146; 2236; 2241; 2278; 2319; 2406; 2409; 2412; 2648; 2744; 2785; 2799; 2913; 3252; 3267; 3478; 3684; 3687; 3752; 3895; 4050
FokI	GGATGNNNNNNNNN!	5	808; 2041; 2498; 2523; 2977
FokI	!NNNNNNNNNNNNNCATCC	3	478; 619; 1847
FriOI	GRGCY!C	7	38; 75; 664; 774; 1365; 2539; 3249
FseI	GGCCGG!CC	1	419
FspI	TGC!GCA	1	2276
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	10; 829; 1023; 1441; 1997; 3012; 3346; 3599

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	141	32; 80; 95; 113; 133; 147; 192; 213; 231; 246; 268; 292; 307; 325; 339; 360; 418; 433; 465; 495; 519; 538; 573; 625; 645; 661; 676; 691; 720; 742; 759; 774; 792; 819; 834; 857; 896; 910; 1051; 1146; 1170; 1193; 1216; 1234; 1256; 1277; 1296; 1315; 1344; 1365; 1379; 1405; 1493; 1519; 1568; 1609; 1627; 1666; 1682; 1720; 1777; 1792; 1849; 1869; 1883; 1900; 1914; 1951; 1966; 2009; 2092; 2159; 2190; 2210; 2225; 2270; 2284; 2350; 2364; 2383; 2399; 2440; 2460; 2507; 2557; 2573; 2593; 2618; 2638; 2661; 2688; 2706; 2732; 2772; 2798; 2822; 2878; 2892; 2920; 2963; 2984; 3019; 3063; 3151; 3175; 3197; 3217; 3233; 3254; 3268; 3287; 3371; 3391; 3419; 3434; 3468; 3510; 3537; 3552; 3597; 3621; 3635; 3657; 3683; 3703; 3727; 3753; 3801; 3820; 3839; 3865; 3900; 3945; 3975; 3989; 4040; 4054; 4079; 4095; 4116; 4145
FspEI	!NNNNNNNNNNNNNNNGG	112	4; 46; 70; 113; 142; 172; 205; 247; 269; 320; 355; 397; 424; 448; 496; 514; 532; 566; 586; 641; 670; 697; 760; 778; 796; 845; 945; 1014; 1044; 1122; 1171; 1193; 1221; 1257; 1302; 1331; 1367; 1386; 1414; 1434; 1497; 1520; 1628; 1660; 1678; 1707; 1750; 1779; 1890; 1919; 1962; 1983; 2011; 2044; 2064; 2089; 2116; 2141; 2163; 2191; 2217; 2238; 2289; 2310; 2328; 2376; 2412; 2468; 2493; 2517; 2546; 2569; 2593; 2619; 2641; 2660; 2685; 2725; 2761; 2826; 2911; 2935; 2964; 2998; 3019; 3039; 3084; 3111; 3130; 3163; 3215; 3246; 3273; 3325; 3423; 3494; 3539; 3600; 3665; 3699; 3725; 3743; 3779; 3849; 3872; 3894; 3918; 3951; 3999; 4034; 4052; 4109
Fsp4HI	GC!NGC	42	120; 165; 192; 300; 339; 378; 385; 420; 498; 552; 585; 681; 694; 821; 951; 1470; 1492; 1506; 1944; 2083; 2135; 2146; 2236; 2241; 2278; 2319; 2406; 2409; 2412; 2648; 2744; 2785; 2799; 2913; 3252; 3267; 3478; 3684; 3687; 3752; 3895; 4050
GdiII	C!GGCCR	3	417; 818; 2080
GdiII	Y!GGCCG	5	417; 818; 2080; 2645; 2672
GlaI	GC!GC	24	14; 225; 577; 630; 1439; 1447; 1473; 1495; 1504; 1517; 1548; 2167; 2175; 2239; 2276; 2542; 2802; 2978; 3064; 3467; 3576; 3750; 3850; 3917
GluI	GC!NGC	42	120; 165; 192; 300; 339; 378; 385; 420; 498; 552; 585; 681; 694; 821; 951; 1470; 1492; 1506; 1944; 2083; 2135; 2146; 2236; 2241; 2278; 2319; 2406; 2409; 2412; 2648; 2744; 2785; 2799; 2913; 3252; 3267; 3478; 3684; 3687; 3752; 3895; 4050
GsaI	CCCAG!C	5	299; 644; 1721; 1793; 3792
GsaI	GCTGG!G	2	715; 2682
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3014
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	2957
HaeI	WGG!CCW	6	778; 1995; 2256; 3618; 4070; 4081
HaeII	RGCGC!Y	7	16; 227; 632; 1441; 1449; 2177; 3852
HaeIII	GG!CC	24	73; 191; 415; 419; 662; 778; 820; 1140; 1282; 1937; 1943; 1952; 1995; 2082; 2256; 2647; 2674; 3183; 3240; 3273; 3618; 4052; 4070; 4081
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	849; 2370
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	815; 2336
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	848; 2369
HaeIV	!NNNNNNNGAYNNNNNNRTC	2	817; 2338
HapII	C!CGG	24	19; 75; 85; 128; 416; 452; 806; 811; 1392; 2079; 2156; 2178; 2206; 2337; 2427; 2494; 2675; 2950; 2958; 3050; 3524; 3714; 3740; 3887
HgaI	GACGCNNNNN!	2	2884; 2963
HgaI	!NNNNNNNNNNNGCGTC	3	1507; 3402; 3980
HhaI	GCG!C	24	15; 226; 578; 631; 1440; 1448; 1474; 1496; 1505; 1518; 1549; 2168; 2176; 2240; 2277; 2543; 2803; 2979; 3065; 3468; 3577; 3751; 3851; 3918
HinI	GR!CGYC	4	224; 2174; 2876; 2955
Hin1II	CATG!	19	99; 108; 198; 531; 618; 669; 1604; 1744; 1816; 1907; 2048; 2393; 2579; 2610; 2636; 2992; 3376; 4096; 4147
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	2	848; 2369
Hin4I	!NNNNNNNNNGABNNNNNNRTC	3	816; 2337; 2367
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	3	848; 2369; 2399
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	816; 2337
Hin6I	G!CGC	24	13; 224; 576; 629; 1438; 1446; 1472; 1494; 1503; 1516; 1547; 2166; 2174; 2238; 2275; 2541; 2801; 2977; 3063; 3466; 3575; 3749; 3849; 3916

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HinP1I	G!CGC	24	13; 224; 576; 629; 1438; 1446; 1472; 1494; 1503; 1516; 1547; 2166; 2174; 2238; 2275; 2541; 2801; 2977; 3063; 3466; 3575; 3749; 3849; 3916
HincII	GTY!RAC	2	59; 937
HindII	GTY!RAC	2	59; 937
HindIII	A!AGCTT	1	40
HinfI	G!ANTC	12	22; 825; 1217; 1239; 1649; 2659; 2793; 2845; 2903; 2940; 3722; 4118
HpaI	GTT!AAC	1	937
HpaII	C!CGG	24	19; 75; 85; 128; 416; 452; 806; 811; 1392; 2079; 2156; 2178; 2206; 2337; 2427; 2494; 2675; 2950; 2958; 3050; 3524; 3714; 3740; 3887
HphI	GGTGANNNNNNNN!	2	3245; 3361
HphI	!NNNNNNNTCACC	4	117; 471; 1291; 2352
Hpy8I	GTN!NAC	7	59; 606; 937; 1221; 1238; 1293; 3780
Hpy99I	CGWCG!	9	63; 583; 2264; 2292; 2586; 2601; 2878; 3263; 3996
Hpy166II	GTN!NAC	7	59; 606; 937; 1221; 1238; 1293; 3780
Hpy188I	TCN!GA	11	27; 1348; 1957; 2141; 2485; 2838; 2939; 3418; 3552; 3905; 3983
Hpy188III	TC!NNGA	25	31; 360; 624; 741; 767; 829; 1601; 1653; 1966; 2019; 2192; 2508; 2517; 2600; 2656; 2700; 2790; 2823; 2892; 3373; 3447; 3530; 3628; 3726; 3860
HpyAV	CCTTCNNNNNN!	8	243; 324; 576; 684; 747; 2819; 2926; 3605
HpyAV	!NNNNNGAAGG	7	1407; 2302; 3031; 3047; 3230; 3547; 3857
HpyCH4III	ACN!GT	10	63; 510; 1265; 2554; 2670; 2778; 3101; 3592; 4062; 4133
HpyCH4IV	A!CGT	11	257; 389; 539; 1234; 1246; 1289; 1399; 2290; 2477; 3258; 3391
HpyCH4V	TG!CA	23	54; 321; 387; 522; 618; 651; 696; 923; 950; 1018; 1735; 1744; 1807; 1816; 1931; 2007; 2066; 2225; 2400; 2414; 3484; 3780; 4147
HpyF3I	C!TNAG	8	24; 250; 1654; 1956; 2837; 3286; 3409; 3818
HpyF10VI	GCNNNNN!NNGC	25	128; 173; 221; 428; 560; 584; 1401; 1431; 1458; 1500; 1741; 1813; 1864; 1943; 2165; 2249; 2272; 2411; 2534; 2617; 2884; 3071; 3275; 3474; 4046
Hsp92I	GR!CGYC	4	224; 2174; 2876; 2955
Hsp92II	CATG!	19	99; 108; 198; 531; 618; 669; 1604; 1744; 1816; 1907; 2048; 2393; 2579; 2610; 2636; 2992; 3376; 4096; 4147
HspAI	G!CGC	24	13; 224; 576; 629; 1438; 1446; 1472; 1494; 1503; 1516; 1547; 2166; 2174; 2238; 2275; 2541; 2801; 2977; 3063; 3466; 3575; 3749; 3849; 3916
KasI	G!GCGCC	2	223; 2173
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	1	67
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	70
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	937
Kzo9I	!GATC	26	27; 78; 110; 425; 473; 488; 749; 763; 814; 831; 2011; 2015; 2034; 2345; 2423; 2504; 2513; 2591; 2967; 2983; 3342; 3354; 3432; 3440; 3451; 3526
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	205; 2518; 2728
LpnI	RGCI!GCV	7	14; 225; 630; 1439; 1447; 2175; 3850
LpnPI	CCDGNNNNNNNNNN!	60	32; 88; 141; 241; 259; 309; 331; 429; 465; 532; 586; 654; 742; 774; 792; 819; 911; 1216; 1405; 1628; 1666; 1682; 1722; 1777; 1794; 1894; 1979; 2092; 2169; 2191; 2214; 2350; 2364; 2383; 2440; 2507; 2557; 2573; 2630; 2688; 2897; 2963; 2987; 3063; 3152; 3255; 3288; 3519; 3537; 3683; 3703; 3727; 3753; 3802; 3900; 3945; 3975; 4054; 4079; 4116
LpnPI	!NNNNNNNNNNNNNNCHGG	52	4; 60; 113; 142; 172; 401; 437; 529; 697; 760; 791; 1257; 1377; 1434; 1497; 1695; 1707; 1767; 1779; 2011; 2056; 2099; 2141; 2163; 2191; 2238; 2300; 2322; 2412; 2479; 2502; 2546; 2641; 2660; 2685; 2834; 2935; 2978; 3035; 3125; 3228; 3255; 3273; 3509; 3546; 3699; 3725; 3865; 3883; 3918; 3999; 4052
Lsp1109I	GCAGCNNNNNNNN!	8	509; 563; 962; 2247; 2289; 2810; 3263; 3763
Lsp1109I	!NNNNNNNNNNNNNGCTGC	8	371; 680; 1456; 2121; 2305; 2398; 3464; 3670
LweI	GCATCNNNNN!	10	131; 365; 653; 725; 990; 1753; 1825; 2473; 2537; 2812
LweI	!NNNNNNNNNNGATGC	4	2132; 2387; 2603; 3995
MabI	A!CCWGGT	1	1763

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MaeI	C!TAG	8	10; 829; 1023; 1441; 1997; 3012; 3346; 3599
MaeII	A!CGT	11	257; 389; 539; 1234; 1246; 1289; 1399; 2290; 2477; 3258; 3391
MaeIII	!GTNAC	9	962; 1463; 1475; 2294; 2600; 3290; 3556; 3672; 3735
MaiI	GA!TC	26	29; 80; 112; 427; 475; 490; 751; 765; 816; 833; 2013; 2017; 2036; 2347; 2425; 2506; 2515; 2593; 2969; 2985; 3344; 3356; 3434; 3442; 3453; 3528
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1598; 2787
MbiI	GAG!CGG	2	1434; 2841
MboI	!GATC	26	27; 78; 110; 425; 473; 488; 749; 763; 814; 831; 2011; 2015; 2034; 2345; 2423; 2504; 2513; 2591; 2967; 2983; 3342; 3354; 3432; 3440; 3451; 3526
MboII	GAAGANNNNNNNN!	7	120; 222; 1430; 1658; 2535; 2745; 3364
MboII	!NNNNNNNTCTTC	5	468; 2825; 2992; 3192; 3435
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	924
MflI	R!GATCY	10	27; 78; 763; 2345; 2591; 2983; 3342; 3354; 3440; 3451
MhlI	GDGCH!C	16	38; 75; 178; 217; 451; 518; 664; 774; 1365; 2120; 2213; 2287; 2477; 2539; 3249; 3782
MisI	TGG!CCA	1	2256
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2256
MlyI	GAGTCNNNNN!	2	1226; 1658
MlyI	!NNNNNGACTC	5	16; 819; 1233; 2839; 3716
Mly113I	GG!CGCC	2	224; 2174
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1267
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	3699; 3883
MnII	CCTCNNNNNNN!	7	893; 1957; 2775; 2981; 3295; 3665; 3989
MnII	!NNNNNNGAGG	17	165; 363; 405; 456; 681; 853; 1318; 1649; 1927; 1970; 1985; 2025; 2089; 2225; 2582; 3012; 3915
Mph1103I	ATGCA!T	3	1746; 1818; 4149
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	4	415; 1391; 2674; 2957
MroXI	GAANN!NNTTC	1	313
MscI	TGG!CCA	1	2256
MseI	T!TAA	14	875; 936; 1057; 1078; 1089; 1101; 1112; 1129; 1227; 1498; 3317; 3331; 3336; 3388
MslI	CAYNN!NNRTG	1	2611
MspI	C!CGG	24	19; 75; 85; 128; 416; 452; 806; 811; 1392; 2079; 2156; 2178; 2206; 2337; 2427; 2494; 2675; 2950; 2958; 3050; 3524; 3714; 3740; 3887
Msp20I	TGG!CCA	1	2256
MspA1I	CMG!CKG	6	69; 299; 1672; 2280; 3509; 3754
MspCI	C!TTAAG	1	1056
MspJI	CNNRNNNNNNNNN!	214	22; 36; 49; 80; 97; 112; 126; 140; 156; 169; 193; 207; 230; 254; 268; 302; 318; 334; 359; 372; 393; 423; 450; 464; 483; 498; 522; 538; 552; 572; 585; 612; 625; 652; 669; 694; 709; 724; 741; 759; 773; 786; 804; 818; 834; 847; 862; 881; 898; 911; 952; 966; 979; 997; 1035; 1050; 1068; 1109; 1133; 1153; 1171; 1192; 1215; 1247; 1262; 1284; 1302; 1315; 1336; 1353; 1366; 1379; 1395; 1408; 1438; 1453; 1478; 1496; 1509; 1524; 1548; 1562; 1586; 1611; 1627; 1665; 1681; 1720; 1734; 1748; 1776; 1792; 1806; 1820; 1849; 1862; 1883; 1892; 1914; 1944; 1960; 1978; 2008; 2031; 2055; 2079; 2098; 2126; 2152; 2168; 2181; 2204; 2218; 2238; 2251; 2265; 2284; 2298; 2311; 2327; 2342; 2355; 2371; 2386; 2402; 2427; 2446; 2462; 2475; 2488; 2506; 2520; 2534; 2550; 2572; 2588; 2607; 2629; 2645; 2668; 2687; 2701; 2717; 2731; 2751; 2767; 2780; 2802; 2835; 2849; 2869; 2882; 2896; 2950; 2963; 2986; 2999; 3018; 3035; 3062; 3098; 3131; 3150; 3175; 3196; 3223; 3236; 3253; 3267; 3282; 3298; 3358; 3383; 3399; 3421; 3434; 3448; 3479; 3493; 3518; 3536; 3551; 3564; 3583; 3596; 3611; 3640; 3659; 3677; 3702; 3717; 3736; 3752; 3771; 3789; 3805; 3819; 3838; 3865; 3888; 3910; 3929; 3944; 3957; 3974; 3994; 4021; 4034; 4053; 4078; 4101; 4115; 4128; 4145

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNGG	177	5; 25; 54; 71; 91; 114; 137; 167; 190; 214; 232; 249; 269; 290; 308; 339; 367; 384; 402; 424; 446; 472; 496; 514; 534; 555; 584; 601; 627; 652; 670; 694; 715; 733; 753; 773; 792; 815; 840; 884; 926; 1009; 1044; 1071; 1094; 1123; 1167; 1189; 1221; 1257; 1274; 1295; 1332; 1352; 1369; 1386; 1421; 1439; 1457; 1474; 1498; 1520; 1547; 1575; 1601; 1639; 1660; 1677; 1695; 1718; 1739; 1767; 1790; 1811; 1829; 1850; 1867; 1890; 1914; 1934; 1952; 1974; 2005; 2027; 2053; 2072; 2089; 2117; 2136; 2155; 2173; 2191; 2212; 2234; 2258; 2291; 2311; 2329; 2350; 2376; 2403; 2420; 2437; 2454; 2480; 2502; 2524; 2542; 2562; 2581; 2603; 2641; 2661; 2685; 2705; 2725; 2752; 2776; 2809; 2828; 2856; 2878; 2907; 2935; 2960; 2979; 2998; 3019; 3036; 3053; 3084; 3111; 3131; 3154; 3174; 3211; 3228; 3247; 3273; 3293; 3332; 3359; 3378; 3396; 3433; 3451; 3492; 3510; 3536; 3553; 3585; 3614; 3642; 3663; 3686; 3705; 3726; 3744; 3761; 3779; 3805; 3826; 3846; 3866; 3884; 3905; 3931; 3948; 3967; 3986; 4015; 4034; 4052; 4071; 4089; 4107; 4130
MspR9I	CC!NGG	17	75; 76; 775; 812; 1710; 1765; 1782; 2178; 2338; 2561; 2951; 3140; 3243; 3715; 3933; 3946; 4067
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	924
MvaI	CC!WGG	10	775; 1710; 1765; 1782; 2561; 3140; 3243; 3933; 3946; 4067
Mva1269I	GAATGCN!	1	925
Mva1269I	G!CATTC	2	754; 1018
MvnI	CG!CG	18	69; 422; 578; 683; 823; 1098; 1474; 1494; 1518; 1549; 2240; 2541; 2979; 3063; 3126; 3195; 3468; 4049
MvrI	CGAT!CG	1	752
MwoI	GCNNNNN!NNGC	25	128; 173; 221; 428; 560; 584; 1401; 1431; 1458; 1500; 1741; 1813; 1864; 1943; 2165; 2249; 2272; 2411; 2534; 2617; 2884; 3071; 3275; 3474; 4046
NaeI	GCC!GGC	4	417; 1393; 2676; 2959
NarI	GG!CGCC	2	224; 2174
NciI	CC!SGG	7	75; 76; 812; 2178; 2338; 2951; 3715
NcoI	C!CATGG	3	527; 1903; 2606
NdeI	CA!TATG	0	
NdeII	!GATC	26	27; 78; 110; 425; 473; 488; 749; 763; 814; 831; 2011; 2015; 2034; 2345; 2423; 2504; 2513; 2591; 2967; 2983; 3342; 3354; 3432; 3440; 3451; 3526
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	4	415; 1391; 2674; 2957
NheI	G!CTAGC	0	
NlaIII	CATG!	19	99; 108; 198; 531; 618; 669; 1604; 1744; 1816; 1907; 2048; 2393; 2579; 2610; 2636; 2992; 3376; 4096; 4147
NlaIV	GGN!NCC	22	65; 73; 80; 132; 177; 225; 288; 450; 662; 1329; 1350; 1362; 1553; 1714; 1786; 2175; 2210; 3058; 3137; 3182; 4025; 4064
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	147; 1006; 1321; 2913
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	241; 3985
Nii3877I	CYCGR!G	4	35; 78; 185; 464
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	1963; 2399
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	1928
NmeDI	RCCGGYNNNNNNN!	8	96; 139; 427; 463; 1403; 2505; 2686; 2969
NmeDI	!NNNNNNNNNNNNRCCGGY	8	71; 114; 402; 438; 1378; 2480; 2661; 2944
NmuCI	!GTSAC	3	1463; 2294; 2600
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2276
NsiI	ATGCA!T	3	1746; 1818; 4149
NspI	RCATG!Y	5	618; 1744; 1816; 2579; 4096
NspV	TT!CGAA	2	45; 2856
OliI	CACNN!NNGTG	0	
PabI	GTA!C	4	66; 368; 728; 2481
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	1744; 1816; 2579
PaeR7I	C!TCGAG	1	31
PagI	T!CATGA	2	1600; 3372

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PaIAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3139; 3242
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	1995
PciI	A!CATGT	1	4092
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	3	205; 2518; 2728
PcsI	WCGNNNN!NNNCGW	7	365; 2468; 2545; 2788; 2862; 3255; 3773
PctI	GAATGCN!	1	925
PctI	G!CATTC	2	754; 1018
PdiI	GCC!GGC	4	417; 1393; 2676; 2959
PdmI	GAANN!NNTTC	1	313
PfeI	G!AWTC	5	2659; 2793; 2903; 2940; 4118
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2292
PfIMI	CCANNNN!NTGG	1	261
PfoI	T!CCNGGA	1	2949
PhoI	GG!CC	24	73; 191; 415; 419; 662; 778; 820; 1140; 1282; 1937; 1943; 1952; 1995; 2082; 2256; 2647; 2674; 3183; 3240; 3273; 3618; 4052; 4070; 4081
PinAI	A!CCGGT	1	84
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	2555
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	2120; 2375
PleI	GAGTCNNNN!	2	1225; 1657
PleI	!NNNNNGACTC	5	16; 819; 1233; 2839; 3716
Ple19I	CGAT!CG	1	752
PmaCI	CAC!GTG	2	258; 390
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	2	258; 390
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1256
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3386
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3418
PpiI	!NNNNNNNGAACNNNNNCTC	1	1224
Ppsi	GAGTCNNNN!	2	1225; 1657
Ppsi	!NNNNNGACTC	5	16; 819; 1233; 2839; 3716
Ppu10I	A!TGCAT	3	1742; 1814; 4145
Ppu21I	YAC!GTR	4	258; 390; 1290; 2478
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4092
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	2	957; 1162
Psp03I	GGWC!C	3	811; 2693; 3138
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	10	773; 1708; 1763; 1780; 2559; 3138; 3241; 3931; 3944; 4065
Psp1406I	AA!CGTT	0	
Psp124BI	GAGTC!C	1	38
PspCI	CAC!GTG	2	258; 390
PspEI	G!GTNACC	0	
PspGI	!CCWGG	10	773; 1708; 1763; 1780; 2559; 3138; 3241; 3931; 3944; 4065
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	65; 73; 80; 132; 177; 225; 288; 450; 662; 1329; 1350; 1362; 1553; 1714; 1786; 2175; 2210; 3058; 3137; 3182; 4025; 4064
PspOMI	G!GGCCC	2	71; 660
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	2	1904; 2903
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2306
PspPI	G!GNCC	12	71; 72; 189; 660; 661; 808; 1281; 2690; 3135; 3181; 3239; 3272
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	5	314; 659; 1727; 1799; 3305
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	1640; 2835
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	663; 3275
PstI	CTGCA!G	2	56; 653
PstNI	CAGNNN!CTG	2	3275; 3683
PsuI	R!GATCY	10	27; 78; 763; 2345; 2591; 2983; 3342; 3354; 3440; 3451
PsyI	GACN!NNGTC	1	2292
PteI	G!CGCGC	0	
PvuI	CGAT!CG	1	752
PvuII	CAG!CTG	2	1672; 2280
RcaI	T!CATGA	2	1600; 3372
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	2689
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	1	419
RleAI	CCCACANNNNNNNNNNNN!	1	903
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	2	395; 488
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	4	65; 367; 727; 2480
RsaNI	G!TAC	4	64; 366; 726; 2479
RseI	CAYNN!NNRTG	1	2611
RsrII	CG!GWCCG	2	808; 2690
Rsr2I	CG!GWCCG	2	808; 2690
SacI	GAGCT!C	1	38
SacII	CCGC!GG	1	70
SaI	G!TCGAC	1	57
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	3	205; 2518; 2728
SaqAI	T!TAA	14	875; 936; 1057; 1078; 1089; 1101; 1112; 1129; 1227; 1498; 3317; 3331; 3336; 3388
SatI	GC!NGC	42	120; 165; 192; 300; 339; 378; 385; 420; 498; 552; 585; 681; 694; 821; 951; 1470; 1492; 1506; 1944; 2083; 2135; 2146; 2236; 2241; 2278; 2319; 2406; 2409; 2412; 2648; 2744; 2785; 2799; 2913; 3252; 3267; 3478; 3684; 3687; 3752; 3895; 4050
Sau96I	G!GNCC	12	71; 72; 189; 660; 661; 808; 1281; 2690; 3135; 3181; 3239; 3272
Sau3AI	!GATC	26	27; 78; 110; 425; 473; 488; 749; 763; 814; 831; 2011; 2015; 2034; 2345; 2423; 2504; 2513; 2591; 2967; 2983; 3342; 3354; 3432; 3440; 3451; 3526
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1226; 1658
SchI	!NNNNNGACTC	5	16; 819; 1233; 2839; 3716
SciI	CTC!GAG	1	33
ScrFI	CC!NGG	17	75; 76; 775; 812; 1710; 1765; 1782; 2178; 2338; 2561; 2951; 3140; 3243; 3715; 3933; 3946; 4067
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	4	1752; 1824; 1993; 3935
SdeAI	!NNNNNNNNNNNNNNNNNNNCTYCTG	2	2329; 2814
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	16	38; 75; 178; 217; 451; 518; 664; 774; 1365; 2120; 2213; 2287; 2477; 2539; 3249; 3782
SelI	!CGCG	18	67; 420; 576; 681; 821; 1096; 1472; 1492; 1516; 1547; 2238; 2539; 2977; 3061; 3124; 3193; 3466; 4047
SetI	ASST!	58	38; 44; 158; 235; 248; 260; 292; 392; 397; 403; 443; 521; 542; 556; 568; 598; 695; 713; 864; 885; 894; 906; 955; 1122; 1237; 1249; 1292; 1329; 1379; 1402; 1526; 1674; 1769; 1962; 2075; 2203; 2282; 2293; 2365; 2436; 2480; 2740; 2886; 2930; 3261; 3292; 3351; 3394; 3537; 3558; 3657; 3794; 3809; 3828; 3840; 3884; 3930; 3981
SexAI	A!CCWGGT	1	1763

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SfaI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	131; 365; 653; 725; 990; 1753; 1825; 2473; 2537; 2812
SfaNI	!NNNNNNNNNGATGC	4	2132; 2387; 2603; 3995
Sfcl	C!TRYAG	6	52; 591; 649; 1509; 3636; 3827
SfiI	GGCCNNNN!NGGCC	1	1949
SfoI	GGC!GCC	2	225; 2175
Sfr274I	C!TCGAG	1	31
Sfr303I	CCGC!GG	1	70
Sful	TT!CGAA	2	45; 2856
SgeI	CNNGNNNNNNNNN!	175	6; 22; 43; 80; 97; 112; 126; 140; 156; 169; 193; 207; 231; 258; 308; 330; 365; 381; 400; 423; 450; 464; 483; 498; 522; 540; 556; 572; 585; 612; 627; 653; 669; 694; 720; 741; 759; 773; 786; 804; 818; 834; 881; 910; 952; 1035; 1109; 1193; 1215; 1247; 1284; 1302; 1321; 1336; 1378; 1395; 1412; 1447; 1461; 1478; 1500; 1524; 1548; 1613; 1627; 1665; 1681; 1721; 1734; 1753; 1776; 1793; 1806; 1825; 1855; 1876; 1893; 1916; 1951; 1978; 2009; 2031; 2057; 2079; 2098; 2126; 2162; 2181; 2204; 2218; 2238; 2251; 2265; 2284; 2298; 2317; 2349; 2363; 2376; 2402; 2433; 2446; 2463; 2480; 2494; 2511; 2529; 2544; 2572; 2588; 2607; 2629; 2645; 2668; 2687; 2712; 2731; 2751; 2778; 2802; 2835; 2854; 2882; 2896; 2962; 2986; 3001; 3024; 3045; 3062; 3110; 3137; 3151; 3180; 3204; 3237; 3254; 3274; 3287; 3300; 3358; 3385; 3404; 3434; 3459; 3479; 3493; 3518; 3536; 3573; 3611; 3640; 3668; 3682; 3702; 3717; 3738; 3752; 3771; 3789; 3805; 3845; 3865; 3892; 3910; 3931; 3944; 3957; 3974; 3998; 4021; 4053; 4078; 4105; 4127
SgeI	!NNNNNNNNNNNNNCNNG	152	5; 25; 54; 71; 91; 114; 139; 167; 190; 214; 232; 282; 304; 339; 367; 397; 424; 446; 472; 496; 514; 546; 563; 586; 610; 627; 652; 670; 694; 715; 733; 753; 778; 797; 815; 855; 884; 926; 1009; 1083; 1167; 1189; 1221; 1258; 1276; 1295; 1352; 1369; 1386; 1421; 1439; 1459; 1479; 1498; 1522; 1587; 1639; 1695; 1727; 1750; 1767; 1799; 1829; 1850; 1867; 1890; 1925; 1952; 1983; 2005; 2031; 2053; 2072; 2100; 2136; 2155; 2178; 2199; 2217; 2234; 2258; 2291; 2323; 2350; 2376; 2407; 2437; 2454; 2480; 2503; 2524; 2546; 2566; 2586; 2603; 2642; 2661; 2686; 2705; 2725; 2752; 2776; 2809; 2828; 2856; 2878; 2936; 2960; 2979; 2998; 3019; 3036; 3084; 3111; 3131; 3154; 3178; 3211; 3228; 3248; 3274; 3332; 3359; 3378; 3408; 3433; 3453; 3492; 3510; 3547; 3585; 3614; 3642; 3663; 3691; 3712; 3745; 3763; 3819; 3839; 3866; 3884; 3905; 3931; 3948; 3972; 3995; 4027; 4052; 4079; 4101; 4130
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	70
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1321; 3108; 3901
SimI	!GACCC	4	743; 2602; 3170; 3418
SinI	G!GWCC	3	808; 2690; 3135
SlaI	C!TCGAG	1	31
SmaI	CCC!GGG	1	76
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	1	2611
SmlI	C!TYRAG	7	31; 37; 1056; 2565; 3447; 3724; 3986
SmoI	C!TYRAG	7	31; 37; 1056; 2565; 3447; 3724; 3986
SmuI	CCCGCNNNN!	8	108; 361; 568; 1496; 1851; 1872; 3068; 3200
SmuI	!NNNNNNGCGGG	6	62; 1427; 2297; 2834; 2972; 3119
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	1744; 1816; 2579
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	10	47; 924; 988; 1066; 1092; 1103; 1750; 1822; 1914; 3332
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	1995
SsiI	C!CGC	37	67; 101; 120; 192; 354; 405; 420; 495; 561; 678; 681; 788; 821; 1489; 1492; 1506; 1596; 1844; 1856; 1865; 1877; 1887; 1898; 1944; 2083; 2146; 2648; 2693; 2759; 2785; 2910; 2913; 3061; 3193; 3500; 3644; 4140

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	G!CGG	27	69; 164; 167; 299; 338; 377; 584; 1434; 1461; 1549; 1659; 2240; 2304; 2405; 2408; 2688; 2743; 2841; 2979; 3126; 3266; 3509; 3754; 3875; 3894; 4021; 4049
SspI	AAT!ATT	2	1082; 1635
SspDI	G!GCGCC	2	223; 2173
SspD5I	GGTGANNNNNNNN!	2	3245; 3361
SspD5I	!NNNNNNNNTCACC	4	116; 470; 1290; 2351
SstI	GAGCT!C	1	38
SstII	CCGC!GG	1	70
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	19	81; 107; 188; 360; 467; 567; 754; 1373; 1495; 1850; 1871; 2184; 2587; 2726; 2797; 3067; 3199; 3429; 3867
Sth132I	!NNNNNNNNCCGGG	18	61; 648; 803; 1374; 1426; 1527; 2254; 2296; 2329; 2833; 2942; 2971; 3118; 3222; 3253; 3706; 3750; 3958
Sth302II	CC!GG	24	20; 76; 86; 129; 417; 453; 807; 812; 1393; 2080; 2157; 2179; 2207; 2338; 2428; 2495; 2676; 2951; 2959; 3051; 3525; 3715; 3741; 3888
StrI	C!TCGAG	1	31
StsI	GGATGNNNNNNNNNN!	5	809; 2042; 2499; 2524; 2978
StsI	!NNNNNNNNNNNNNNNNCATCC	3	477; 618; 1846
StuI	AGG!CCT	1	1995
StyI	C!CWWGG	6	218; 527; 1903; 1996; 2606; 3011
StyD4I	!CCNGG	17	73; 74; 773; 810; 1708; 1763; 1780; 2176; 2336; 2559; 2949; 3138; 3241; 3713; 3931; 3944; 4065
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	10	63; 510; 1265; 2554; 2670; 2778; 3101; 3592; 4062; 4133
TaiI	ACGT!	11	260; 392; 542; 1237; 1249; 1292; 1402; 2293; 2480; 3261; 3394
TaqI	T!CGA	17	32; 45; 58; 113; 152; 359; 1323; 2014; 2287; 2443; 2467; 2503; 2665; 2856; 2901; 3156; 3994
TaqII	GACCGANNNNNNNNNNN!	3	1194; 2211; 2879
TaqII	!NNNNNNNNNTCGGTC	1	3123
TaqII	CACCCANNNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	2	2078; 2670
TasI	!AATT	10	47; 924; 988; 1066; 1092; 1103; 1750; 1822; 1914; 3332
TatI	W!GTACW	0	
TauI	GCSG!C	25	122; 167; 194; 302; 341; 380; 422; 587; 683; 823; 1494; 1508; 1946; 2085; 2148; 2243; 2408; 2411; 2650; 2746; 2787; 2915; 3269; 3897; 4052
TfiI	G!AWTC	5	2659; 2793; 2903; 2940; 4118
TliI	C!TCGAG	1	31
TruII	T!TAA	14	875; 936; 1057; 1078; 1089; 1101; 1112; 1129; 1227; 1498; 3317; 3331; 3336; 3388
Tru9I	T!TAA	14	875; 936; 1057; 1078; 1089; 1101; 1112; 1129; 1227; 1498; 3317; 3331; 3336; 3388
TscAI	CASTGNN!	5	1020; 2303; 3413; 3684; 3697
TseI	G!CWGC	17	384; 497; 551; 693; 950; 1469; 2134; 2235; 2277; 2318; 2411; 2798; 3251; 3477; 3683; 3686; 3751
TsoI	TARCCANNNNNNNNNNN!	2	1146; 1493
TsoI	!NNNNNNNNNTGGYTA	2	951; 2703
Tsp45I	!GTSAC	3	1463; 2294; 2600
Tsp509I	!AATT	10	47; 924; 988; 1066; 1092; 1103; 1750; 1822; 1914; 3332
TspDTI	ATGAANNNNNNNNNNN!	5	121; 223; 932; 2233; 2937
TspDTI	!NNNNNNNNNTTCAT	3	2651; 3107; 3314
TspEI	!AATT	10	47; 924; 988; 1066; 1092; 1103; 1750; 1822; 1914; 3332
TspGWI	ACGGANNNNNNNNNNN!	1	3049
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	74
TspRI	CASTGNN!	5	1020; 2303; 3413; 3684; 3697
TstI	CACNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2292
Tth111II	CAARCANNNNNNNNNNN!	1	3501
Tth111II	!NNNNNNNNNTGYTTG	3	2609; 3469; 3508

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
UnbI	!GGNCC	12	70; 71; 188; 659; 660; 807; 1280; 2689; 3134; 3180; 3238; 3271
Van9II	CCANNNN!NTGG	1	261
Vha464I	C!TTAAG	1	1056
VneI	G!TGCAC	1	3778
VpaK11AI	!GGWCC	3	807; 2689; 3134
VpaK11BI	G!GWCC	3	808; 2690; 3135
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	47; 988; 1092; 1103
XbaI	T!CTAGA	1	828
XceI	RCATG!Y	5	618; 1744; 1816; 2579; 4096
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	31
XhoII	R!GATCY	10	27; 78; 763; 2345; 2591; 2983; 3342; 3354; 3440; 3451
XmaI	C!CCGGG	1	74
XmaJI	C!CTAGG	2	1996; 3011
XmiI	GT!MKAC	1	58
XmnI	GAANN!NNTTC	1	313
XspI	C!TAG	8	10; 829; 1023; 1441; 1997; 3012; 3346; 3599
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	1746; 1818; 4149