

pTurboYFP-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	970; 1175
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1258; 2214; 4003
AatI	AGG!CCT	1	2008
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	58
AccII	CG!CG	20	69; 185; 416; 455; 740; 770; 836; 1111; 1487; 1507; 1531; 1562; 2253; 2554; 2992; 3076; 3139; 3208; 3481; 4062
AccIII	T!CCGGA	1	811
Acc16I	TGC!GCA	1	2289
Acc36I	ACCTGCNNNN!	2	2455; 2905
Acc36I	!NNNNNNNNGCAGGT	1	2074
Acc65I	G!GTACC	1	63
AccB1I	G!GYRCC	6	63; 106; 295; 1340; 2186; 2221
AccB7I	CCANNNN!NTGG	1	498
AccBSI	CCG!CTC	2	1611; 2800
AccBSI	GAG!CGG	2	1447; 2854
AceIII	CAGTCNNNNNNN!	1	1143
AceIII	!NNNNNNNNNNGAGCTG	2	313; 333
AciI	C!CGC	30	67; 183; 414; 738; 783; 834; 1502; 1505; 1519; 1609; 1857; 1869; 1878; 1890; 1900; 1911; 1957; 2096; 2159; 2661; 2706; 2772; 2798; 2923; 2926; 3074; 3206; 3513; 3657; 4153
AciI	G!CGG	26	69; 104; 185; 662; 665; 830; 1447; 1474; 1562; 1672; 2253; 2317; 2418; 2421; 2701; 2756; 2854; 2992; 3139; 3279; 3522; 3767; 3888; 3907; 4034; 4062
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	8	86; 2055; 2366; 2612; 3004; 3363; 3461; 3547
AclWI	!NNNNNGATCC	6	73; 123; 2431; 2975; 3362; 3459
AcoI	Y!GGCCR	9	165; 468; 489; 629; 831; 2093; 2267; 2658; 2685
AcsI	R!AATTY	4	47; 1001; 1105; 1116
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	5	349; 592; 775; 2333; 2765
AcuI	!NNNNNNNNNNNNNCTTCAG	2	159; 3563
AcvI	CAC!GTG	3	495; 678; 708
AcyI	GR!CGYC	6	107; 296; 803; 2187; 2889; 2968
AdeI	CACNNN!GTG	1	1303
AfaI	GT!AC	6	65; 316; 448; 541; 688; 2493
AfeI	AGC!GCT	1	14
AfiI	CCNNNNN!NNGG	21	138; 189; 263; 420; 498; 661; 1199; 1525; 1917; 2168; 2712; 2993; 3025; 3157; 3192; 3242; 3274; 3627; 3906; 4072; 4090
AfIII	C!TTAAG	1	1069
AfIII	A!CRYGT	1	4105
AgeI	A!CCGGT	1	84
AgsI	TTS!AA	9	408; 480; 519; 585; 1598; 1642; 1652; 2065; 3641
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	12	262; 272; 470; 1721; 1776; 1793; 2572; 3151; 3254; 3944; 3957; 4078
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	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	1761; 1833
AlfI	!NNNNNNNNNNNGCANNNNNNTGC	2	1727; 1799
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	1269
AloI	!NNNNNNNNGGANNNNNNGTTC	1	214
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	1	246
AloI	!NNNNNNNGAACNNNNNNNTCC	1	1237
AluI	AG!CT	19	36; 42; 327; 347; 462; 701; 714; 824; 966; 1133; 1390; 1685; 1973; 2293; 2751; 3548; 3805; 3851; 3941
AluBI	AG!CT	19	36; 42; 327; 347; 462; 701; 714; 824; 966; 1133; 1390; 1685; 1973; 2293; 2751; 3548; 3805; 3851; 3941
AlwI	GGATCNNNN!	8	86; 2055; 2366; 2612; 3004; 3363; 3461; 3547
AlwI	!NNNNNGATCC	6	73; 123; 2431; 2975; 3362; 3459
Alw21I	GWGCW!C	6	38; 271; 677; 2300; 2490; 3795
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	5	754; 1611; 2029; 3048; 3176
Alw44I	G!TGCAC	2	673; 3791
AlwNI	CAGNNN!CTG	2	3288; 3696
Ama87I	C!YCGRG	4	31; 74; 322; 682
Aor13HI	T!CCGGA	1	811
Aor51HI	AGC!GCT	1	14
ApaI	GGGCC!C	1	75
ApaBI	GCANNNNN!TGC	3	1755; 1827; 3289
ApaLI	G!TGCAC	2	673; 3791
ApeKI	G!CWGC	17	101; 347; 440; 608; 963; 1482; 2147; 2248; 2290; 2331; 2424; 2811; 3264; 3490; 3696; 3699; 3764
ApoI	R!AATTY	4	47; 1001; 1105; 1116
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	2702
ApyPI	!NNNNNNNNNNNNNNNNNNNGTTCGAT	3	2496; 3149; 3987
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	2586
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	296
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	2015
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	2757
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	24	28; 79; 129; 553; 600; 634; 733; 845; 2025; 2029; 2048; 2359; 2437; 2518; 2527; 2605; 2981; 2997; 3356; 3368; 3446; 3454; 3465; 3540
AsiGI	A!CCGGT	1	84
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2305
Asp700I	GAANN!NNTTC	1	334
Asp718I	G!GTACC	1	63
AspA2I	C!CTAGG	2	2009; 3024
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	28	15; 109; 298; 377; 418; 580; 770; 772; 1453; 1461; 1487; 1509; 1518; 1531; 1562; 2181; 2189; 2253; 2290; 2556; 2816; 2992; 3078; 3481; 3590; 3764; 3864; 3931
AspS9I	G!GNCC	10	71; 72; 319; 667; 1294; 2703; 3148; 3194; 3252; 3285
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	45; 2869
AsuC2I	CC!SGG	6	75; 76; 2191; 2351; 2964; 3728
AsuHPI	GGTGANNNNNNNNN!	4	288; 435; 3258; 3374
AsuHPI	!NNNNNNNTCACC	6	375; 516; 594; 727; 1304; 2365
AsuNHI	G!CTAGC	0	
AvaI	C!YCGRG	4	31; 74; 322; 682
AvaII	G!GWCC	2	2703; 3148
AviII	TGC!GCA	1	2289
AvrII	C!CTAGG	2	2009; 3024
AxyI	CC!TNAGG	2	1667; 3299
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; 2133; 2226; 3795
BalI	TGG!CCA	4	167; 470; 491; 2269
BamHI	G!GATCC	1	78
BanI	G!GYRCC	6	63; 106; 295; 1340; 2186; 2221
BanII	GRGCY!C	5	38; 75; 1378; 2552; 3262
BanIII	AT!CGAT	1	2027
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	354
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	1	322
BasI	CCANNNN!NTGG	1	498
BauI	C!ACGAG	3	595; 2905; 3932
BauI	C!TCGTG	1	2779
BbeI	GGCGC!C	3	110; 299; 2190
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	3	495; 678; 708
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	4	354; 1757; 1829; 2592
BbvI	GCAGCNNNNNNNN!	9	113; 452; 620; 975; 2260; 2302; 2823; 3276; 3776
BbvI	!NNNNNNNNNNNGCTGC	7	334; 1469; 2134; 2318; 2411; 3477; 3683
Bbv12I	GWGCW!C	6	38; 271; 677; 2300; 2490; 3795
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	388; 664; 1317; 1881; 2407; 2909
BccI	!NNNNNGATGG	8	141; 157; 352; 391; 481; 1285; 2065; 2493
BceAI	ACGGCNNNNNNNNNN!	7	138; 213; 309; 333; 582; 2613; 3100
BceAI	!NNNNNNNNNNNGCCGT	4	757; 1328; 2146; 3605
Bcefl	ACGGCNNNNNNNNNN!	7	138; 213; 309; 333; 582; 2613; 3100
Bcefl	!NNNNNNNNNNNGCCGT	4	758; 1329; 2147; 3606
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	1616; 2406; 3907
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	6	75; 76; 2191; 2351; 2964; 3728
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	4040
BdaI	!NNNNNNNNNNTGANNNNNNTCA	1	4006
BfaI	C!TAG	8	10; 842; 1036; 1454; 2010; 3025; 3359; 3612
BfiI	ACTGGGNNNNN!	1	2136
BfiI	!NNNCCCAGT	3	222; 294; 1888
BfmI	C!TRYAG	4	52; 1522; 3649; 3840
BfoI	RGCGC!Y	8	16; 110; 299; 581; 1454; 1462; 2190; 3865
BfrI	C!TTAAG	1	1069
BfuI	GTATCCNNNNNN!	3	1616; 2406; 3907
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	2455; 2905
BfuAI	!NNNNNNNGCAGGT	1	2074
BfuCI	!GATC	24	27; 78; 128; 552; 599; 633; 732; 844; 2024; 2028; 2047; 2358; 2436; 2517; 2526; 2604; 2980; 2996; 3355; 3367; 3445; 3453; 3464; 3539
BglI	GCCNNNN!NGGC	1	1962
BglII	A!GATCT	1	27
BisI	GC!NGC	39	102; 105; 186; 348; 441; 609; 663; 666; 783; 831; 834; 964; 1483; 1505; 1519; 1957; 2096; 2148; 2159; 2249; 2254; 2291; 2332; 2419; 2422; 2425; 2661; 2757; 2798; 2812; 2926; 3265; 3280; 3491; 3697; 3700; 3765; 3908; 4063
BlnI	C!CTAGG	2	2009; 3024

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BlpI	GC!TNAGC	1	715
BlsI	GCN!GC	39	103; 106; 187; 349; 442; 610; 664; 667; 784; 832; 835; 965; 1484; 1506; 1520; 1958; 2097; 2149; 2160; 2250; 2255; 2292; 2333; 2420; 2423; 2426; 2662; 2758; 2799; 2813; 2927; 3266; 3281; 3492; 3698; 3701; 3766; 3909; 4064
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	2703; 3148
Bme1390I	CC!NGG	18	75; 76; 264; 274; 472; 1723; 1778; 1795; 2191; 2351; 2574; 2964; 3153; 3256; 3728; 3946; 3959; 4080
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; 1295; 2704; 3149; 3195; 3253; 3286
BmiI	GGN!NCC	21	65; 73; 80; 108; 297; 321; 669; 810; 1342; 1363; 1375; 1566; 1727; 1799; 2188; 2223; 3071; 3150; 3195; 4038; 4077
BmrI	ACTGGGNNNNN!	1	2136
BmrI	!NNNNCCCAGT	3	222; 294; 1888
BmrFI	CC!NGG	18	75; 76; 264; 274; 472; 1723; 1778; 1795; 2191; 2351; 2574; 2964; 3153; 3256; 3728; 3946; 3959; 4080
BmsI	GCATCNNNNN!	7	188; 1003; 1766; 1838; 2486; 2550; 2825
BmsI	!NNNNNNNNNGATGC	6	192; 213; 2145; 2400; 2616; 4008
BmtI	GCTAG!C	0	
BmuI	ACTGGGNNNNN!	1	2136
BmuI	!NNNNCCCAGT	3	222; 294; 1888
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNCTCNNNNNNNNNNNN!	2	1976; 2875
BpI	!NNNNNNNNGAGNNNNNCTC	2	1944; 2843
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	285; 532; 3027
BpmI	!NNNNNNNNNNNNNNCTCCAG	1	2970
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	45; 2869
Bpu1102I	GC!TNAGC	1	715
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	3481; 4020
BpuEI	!NNNNNNNNNNNNNNCTCAAG	3	22; 2563; 3722
BpuMI	CC!SGG	6	75; 76; 2191; 2351; 2964; 3728
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	754; 3176
Bsa29I	AT!CGAT	1	2027
BsaAI	YAC!GTR	7	138; 366; 495; 678; 708; 1303; 2491
BsaBI	GATNN!NNATC	2	849; 2046
BsaHI	GR!CGYC	6	107; 296; 803; 2187; 2889; 2968
BsaJI	C!CNNGG	21	67; 74; 120; 183; 262; 272; 419; 471; 773; 1721; 1793; 1916; 1951; 1960; 2009; 2350; 2619; 3024; 3152; 3255; 3945
BsaMI	GAATGCN!	1	938
BsaMI	G!CATTC	1	1031
BsaWI	W!CCGGW	7	18; 84; 811; 2218; 3062; 3752; 3899
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1267
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	1237
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTTG	2	1188; 3095
Bsc4I	CCNNNNN!NNGG	21	138; 189; 263; 420; 498; 661; 1199; 1525; 1917; 2168; 2712; 2993; 3025; 3157; 3192; 3242; 3274; 3627; 3906; 4072; 4090
BscAI	GCATCNNNN!	7	187; 1002; 1765; 1837; 2485; 2549; 2824
BscAI	!NNNNNNGATGC	6	195; 216; 2148; 2403; 2619; 4011
Bse1I	ACTGGN!	3	2131; 2332; 3578
Bse1I	C!CAGT	6	228; 300; 1216; 1894; 3690; 3703
Bse8I	GATNN!NNATC	2	849; 2046

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Bse2II	CC!TNAGG	2	1667; 3299
Bse118I	R!CCGGY	8	84; 244; 604; 805; 1404; 2506; 2687; 2970
BseAI	T!CCGGA	1	811
BseBI	CC!WGG	12	264; 274; 472; 1723; 1778; 1795; 2574; 3153; 3256; 3946; 3959; 4080
BseCI	AT!CGAT	1	2027
BseDI	C!CNNGG	21	67; 74; 120; 183; 262; 272; 419; 471; 773; 1721; 1793; 1916; 1951; 1960; 2009; 2350; 2619; 3024; 3152; 3255; 3945
Bse3DI	GCAATGNN!	2	162; 2420
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	8	168; 228; 492; 729; 2047; 2504; 2529; 2983
BseGI	!CATCC	2	179; 1873
BseJI	GATNN!NNATC	2	849; 2046
BseLI	CCNNNNN!NNGG	21	138; 189; 263; 420; 498; 661; 1199; 1525; 1917; 2168; 2712; 2993; 3025; 3157; 3192; 3242; 3274; 3627; 3906; 4072; 4090
BseMI	GCAATGNN!	2	162; 2420
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	38; 3313
BseMII	!NNNNNNNNCTGAG	6	706; 1658; 1960; 2841; 3413; 3822
BseNI	ACTGGN!	3	2131; 2332; 3578
BseNI	C!CAGT	6	228; 300; 1216; 1894; 3690; 3703
BsePI	G!CGCGC	1	768
BseRI	GAGGAGNNNNNNNNNN!	1	2005
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	8	75; 257; 263; 677; 683; 2133; 2226; 3795
BseXI	GCAGC!NNNNNNNN!	9	113; 452; 620; 975; 2260; 2302; 2823; 3276; 3776
BseXI	!NNNNNNNNNNNGCTGC	7	334; 1469; 2134; 2318; 2411; 3477; 3683
BseX3I	C!GGCCG	2	831; 2093
BseYI	C!CCAGC	3	1730; 1802; 3801
BseYI	G!CTGGG	2	498; 2691
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	388
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	222
Bsh1236I	CG!CG	20	69; 185; 416; 455; 740; 770; 836; 1111; 1487; 1507; 1531; 1562; 2253; 2554; 2992; 3076; 3139; 3208; 3481; 4062
Bsh1285I	CGRY!CG	4	89; 834; 2096; 3771
BshFI	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 833; 1153; 1295; 1950; 1956; 1965; 2008; 2095; 2269; 2660; 2687; 3196; 3253; 3286; 3631; 4065; 4083; 4094
BshNI	G!GYRCC	6	63; 106; 295; 1340; 2186; 2221
BshTI	A!CCGGT	1	84
BshVI	AT!CGAT	1	2027
BsiEI	CGRY!CG	4	89; 834; 2096; 3771
BsiHKAI	GWGCW!C	6	38; 271; 677; 2300; 2490; 3795
BsiHKCI	C!YCGRG	4	31; 74; 322; 682
BsiSI	C!CGG	23	19; 75; 85; 245; 605; 806; 812; 1405; 2092; 2169; 2191; 2219; 2350; 2440; 2507; 2688; 2963; 2971; 3063; 3537; 3727; 3753; 3900
BsiWI	C!GTACC	0	
BsI	CCNNNNN!NNGG	21	138; 189; 263; 420; 498; 661; 1199; 1525; 1917; 2168; 2712; 2993; 3025; 3157; 3192; 3242; 3274; 3627; 3906; 4072; 4090
BsIFI	GGGACNNNNNNNNNN!	3	2338; 2870; 2979
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1703; 1775; 1839; 3134
BsmI	GAATGCN!	1	938
BsmI	G!CATTC	1	1031
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	5	754; 1611; 2029; 3048; 3176
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2338; 2870; 2979
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1703; 1775; 1839; 3134
BsnI	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 833; 1153; 1295; 1950; 1956; 1965; 2008; 2095; 2269; 2660; 2687; 3196; 3253; 3286; 3631; 4065; 4083; 4094
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	754; 3176
BsoBI	C!YCGRG	4	31; 74; 322; 682

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Bsp13I	T!CCGGA	1	811
Bsp19I	C!CATGG	2	1916; 2619
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	2990
Bsp24I	!NNNNNNCCANNNNNGTC	2	3411; 3589
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3443; 3621
Bsp24I	!NNNNNNNGACNNNNNTGG	1	2958
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	45; 2869
Bsp120I	G!GGCCC	1	71
Bsp143I	!GATC	24	27; 78; 128; 552; 599; 633; 732; 844; 2024; 2028; 2047; 2358; 2436; 2517; 2526; 2604; 2980; 2996; 3355; 3367; 3445; 3453; 3464; 3539
Bsp1286I	GDGCH!C	15	38; 75; 257; 263; 271; 677; 683; 1378; 2133; 2226; 2300; 2490; 2552; 3262; 3795
Bsp1407I	T!GTACA	2	446; 539
Bsp1720I	GC!TNAGC	1	715
BspACI	C!CGC	30	67; 183; 414; 738; 783; 834; 1502; 1505; 1519; 1609; 1857; 1869; 1878; 1890; 1900; 1911; 1957; 2096; 2159; 2661; 2706; 2772; 2798; 2923; 2926; 3074; 3206; 3513; 3657; 4153
BspACI	G!CGG	26	69; 104; 185; 662; 665; 830; 1447; 1474; 1562; 1672; 2253; 2317; 2418; 2421; 2701; 2756; 2854; 2992; 3139; 3279; 3522; 3767; 3888; 3907; 4034; 4062
BspCNI	CTCAGNNNNNNNN!	2	37; 3312
BspCNI	!NNNNNNCTGAG	6	707; 1659; 1961; 2842; 3414; 3823
BspDI	AT!CGAT	1	2027
BspD6I	GACTNNNN!	5	30; 846; 1260; 2866; 3743
BspD6I	!NNNNNGAGTC	2	1223; 1655
BspEI	T!CCGGA	1	811
BspFNI	CG!CG	20	69; 185; 416; 455; 740; 770; 836; 1111; 1487; 1507; 1531; 1562; 2253; 2554; 2992; 3076; 3139; 3208; 3481; 4062
BspHI	T!CATGA	2	1613; 3385
BspLI	GGN!NCC	21	65; 73; 80; 108; 297; 321; 669; 810; 1342; 1363; 1375; 1566; 1727; 1799; 2188; 2223; 3071; 3150; 3195; 4038; 4077
BspMI	ACCTGCNNNN!	2	2455; 2905
BspMI	!NNNNNNNGCAGGT	1	2074
BspOI	GCTAG!C	0	
BspPI	GGATCNNNN!	8	86; 2055; 2366; 2612; 3004; 3363; 3461; 3547
BspPI	!NNNNNGATCC	6	73; 123; 2431; 2975; 3362; 3459
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	568; 2531; 2741
BspTI	C!TTAAG	1	1069
BspT104I	TT!CGAA	2	45; 2869
BspT107I	G!GYRCC	6	63; 106; 295; 1340; 2186; 2221
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	754; 3176
BsrI	ACTGGN!	3	2131; 2332; 3578
BsrI	C!CAGT	6	228; 300; 1216; 1894; 3690; 3703
BsrBI	CCG!CTC	2	1611; 2800
BsrBI	GAG!CGG	2	1447; 2854
BsrDI	GCAATGNN!	2	162; 2420
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	8	84; 244; 604; 805; 1404; 2506; 2687; 2970
BsrGI	T!GTACA	2	446; 539
BsrSI	ACTGGN!	3	2131; 2332; 3578
BsrSI	C!CAGT	6	228; 300; 1216; 1894; 3690; 3703
BssAI	R!CCGGY	8	84; 244; 604; 805; 1404; 2506; 2687; 2970
BssECI	C!CNNGG	21	67; 74; 120; 183; 262; 272; 419; 471; 773; 1721; 1793; 1916; 1951; 1960; 2009; 2350; 2619; 3024; 3152; 3255; 3945
BssHII	G!CGCGC	1	768
BssKI	!CCNGG	18	73; 74; 262; 272; 470; 1721; 1776; 1793; 2189; 2349; 2572; 2962; 3151; 3254; 3726; 3944; 3957; 4078
BssMI	!GATC	24	27; 78; 128; 552; 599; 633; 732; 844; 2024; 2028; 2047; 2358; 2436; 2517; 2526; 2604; 2980; 2996; 3355; 3367; 3445; 3453; 3464; 3539
BssNI	GR!CGYC	6	107; 296; 803; 2187; 2889; 2968
BssNAI	GTA!TAC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BssSI	C!ACGAG	3	595; 2905; 3932
BssSI	C!TCGTG	1	2779
BstT1I	C!CWGGG	4	1916; 2009; 2619; 3024
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	4	568; 1654; 2531; 2741
Bst98I	C!TTAAG	1	1069
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	6	107; 296; 803; 2187; 2889; 2968
BstAFI	C!TTAAG	1	1069
BstAPI	GCANNNN!NTGC	3	1754; 1826; 3288
BstAUI	T!GTACA	2	446; 539
BstBI	TT!CGAA	2	45; 2869
Bst2BI	C!ACGAG	3	595; 2905; 3932
Bst2BI	C!TCGTG	1	2779
BstBAI	YAC!GTR	7	138; 366; 495; 678; 708; 1303; 2491
Bst4CI	ACN!GT	10	63; 765; 1278; 2567; 2683; 2791; 3114; 3605; 4075; 4146
BstC8I	GCN!NGC	28	71; 207; 352; 770; 1406; 1449; 1463; 1736; 1755; 1808; 1827; 2081; 2267; 2486; 2552; 2558; 2590; 2631; 2635; 2689; 2972; 3159; 3206; 3262; 3284; 3495; 4055; 4092
BstDEI	C!TNAG	8	24; 715; 1667; 1969; 2850; 3299; 3422; 3831
BstDSI	C!CRYGG	6	67; 120; 183; 773; 1916; 2619
BstEII	G!GTNACC	2	276; 423
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	8	168; 228; 492; 729; 2047; 2504; 2529; 2983
BstF5I	!CATCC	2	179; 1873
BstFNI	CG!CG	20	69; 185; 416; 455; 740; 770; 836; 1111; 1487; 1507; 1531; 1562; 2253; 2554; 2992; 3076; 3139; 3208; 3481; 4062
BstH2I	RGCGC!Y	8	16; 110; 299; 581; 1454; 1462; 2190; 3865
BstHHI	GCG!C	28	15; 109; 298; 377; 418; 580; 770; 772; 1453; 1461; 1487; 1509; 1518; 1531; 1562; 2181; 2189; 2253; 2290; 2556; 2816; 2992; 3078; 3481; 3590; 3764; 3864; 3931
BstKTI	GAT!C	24	30; 81; 131; 555; 602; 636; 735; 847; 2027; 2031; 2050; 2361; 2439; 2520; 2529; 2607; 2983; 2999; 3358; 3370; 3448; 3456; 3467; 3542
BstMAI	GTCTCN!	0	
BstMAI	!NNNNGAGAC	5	754; 1611; 2029; 3048; 3176
BstMBI	!GATC	24	27; 78; 128; 552; 599; 633; 732; 844; 2024; 2028; 2047; 2358; 2436; 2517; 2526; 2604; 2980; 2996; 3355; 3367; 3445; 3453; 3464; 3539
BstMCI	CGRY!CG	4	89; 834; 2096; 3771
BstMWI	GCNNNNN!NNGC	26	185; 206; 245; 302; 575; 614; 830; 1414; 1444; 1471; 1513; 1754; 1826; 1877; 1956; 2178; 2262; 2285; 2424; 2547; 2630; 2897; 3084; 3288; 3487; 4059
BstNI	CC!WGG	12	264; 274; 472; 1723; 1778; 1795; 2574; 3153; 3256; 3946; 3959; 4080
BstNSI	RCATG!Y	5	354; 1757; 1829; 2592; 4109
BstOI	CC!WGG	12	264; 274; 472; 1723; 1778; 1795; 2574; 3153; 3256; 3946; 3959; 4080
BstPI	G!GTNACC	2	276; 423
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	18	73; 74; 262; 272; 470; 1721; 1776; 1793; 2189; 2349; 2572; 2962; 3151; 3254; 3726; 3944; 3957; 4078
BstSFI	C!TRYAG	4	52; 1522; 3649; 3840
BstSLI	GKGC!C	8	75; 257; 263; 677; 683; 2133; 2226; 3795
BstSNI	TAC!GTA	0	
BstUI	CG!CG	20	69; 185; 416; 455; 740; 770; 836; 1111; 1487; 1507; 1531; 1562; 2253; 2554; 2992; 3076; 3139; 3208; 3481; 4062
Bst2UI	CC!WGG	12	264; 274; 472; 1723; 1778; 1795; 2574; 3153; 3256; 3946; 3959; 4080
BstV1I	GCAGCNNNNNNN!	9	113; 452; 620; 975; 2260; 2302; 2823; 3276; 3776
BstV1I	!NNNNNNNNNNNGCTGC	7	334; 1469; 2134; 2318; 2411; 3477; 3683
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	10	27; 78; 128; 2358; 2604; 2996; 3355; 3367; 3453; 3464
BstYI	R!GATCY	10	27; 78; 128; 2358; 2604; 2996; 3355; 3367; 3453; 3464
BstZI	C!GGCCG	2	831; 2093

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	1616; 2406; 3907
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	2027
Bsu36I	CC!TNAGG	2	1667; 3299
BsuRI	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 833; 1153; 1295; 1950; 1956; 1965; 2008; 2095; 2269; 2660; 2687; 3196; 3253; 3286; 3631; 4065; 4083; 4094
BsuTUI	AT!CGAT	1	2027
BtgI	C!CRYGG	6	67; 120; 183; 773; 1916; 2619
BtgZI	GCGATGNNNNNNNNNN!	5	215; 263; 410; 1304; 2639
BtgZI	!NNNNNNNNNNNNNNNNCATCGC	2	2458; 2802
BthCI	GCNG!C	39	104; 107; 188; 350; 443; 611; 665; 668; 785; 833; 836; 966; 1485; 1507; 1521; 1959; 2098; 2150; 2161; 2251; 2256; 2293; 2334; 2421; 2424; 2427; 2663; 2759; 2800; 2814; 2928; 3267; 3282; 3493; 3699; 3702; 3767; 3910; 4065
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	531; 1026
BtsCI	GGATGNN!	8	168; 228; 492; 729; 2047; 2504; 2529; 2983
BtsCI	!CATCC	2	179; 1873
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	2455; 2905
BveI	!NNNNNNNNNGCAGGT	1	2074
Cac8I	GCN!NGC	28	71; 207; 352; 770; 1406; 1449; 1463; 1736; 1755; 1808; 1827; 2081; 2267; 2486; 2552; 2558; 2590; 2631; 2635; 2689; 2972; 3159; 3206; 3262; 3284; 3495; 4055; 4092
CaiI	CAGNNN!CTG	2	3288; 3696
CciI	T!CATGA	2	1613; 3385
CciNI	GC!GGCCGC	1	831
CdiI	CATC!G	6	627; 660; 2476; 2481; 2679; 2820
CdiI	C!GATG	6	201; 249; 357; 396; 1290; 2625
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4059
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	2	1848; 1890
CelII	GC!TNAGC	1	715
CfoI	GCG!C	28	15; 109; 298; 377; 418; 580; 770; 772; 1453; 1461; 1487; 1509; 1518; 1531; 1562; 2181; 2189; 2253; 2290; 2556; 2816; 2992; 3078; 3481; 3590; 3764; 3864; 3931
CfrI	Y!GGCCR	9	165; 468; 489; 629; 831; 2093; 2267; 2658; 2685
Cfr9I	C!CCGGG	1	74
Cfr10I	R!CCGGY	8	84; 244; 604; 805; 1404; 2506; 2687; 2970
Cfr13I	G!GNCC	10	71; 72; 319; 667; 1294; 2703; 3148; 3194; 3252; 3285
Cfr42I	CCGC!GG	2	70; 186
ChaI	GATC!	24	31; 82; 132; 556; 603; 637; 736; 848; 2028; 2032; 2051; 2362; 2440; 2521; 2530; 2608; 2984; 3000; 3359; 3371; 3449; 3457; 3468; 3543
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	5	556; 2004; 3444; 3544; 3622
CjeI	!NNNNNNNNNACNNNNNNNTGG	5	1671; 1766; 2958; 3508; 4063
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNNNN!	5	1705; 1800; 2992; 3542; 4097
CjeI	!NNNNNNNNCCANNNNNNGT	5	522; 1970; 3410; 3510; 3588
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNNNN!	2	3444; 3622
CjePI	!NNNNNNNNNGANNNNNNNTGG	3	450; 2958; 3557
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNNNN!	3	483; 2991; 3590
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	3411; 3589
Clal	AT!CGAT	1	2027
CpoI	CG!GWCCG	1	2703
CseI	GACGCNNNNN!	3	811; 2897; 2976
CseI	!NNNNNNNNNNNGCGTC	3	1520; 3415; 3993
CsiI	A!CCWGGT	1	1776
CspI	CG!GWCCG	1	2703
Csp6I	G!TAC	6	64; 315; 447; 540; 687; 2492
Csp45I	TT!CGAA	2	45; 2869
CspAI	A!CCGGT	1	84
CspCI	CAANNNNNNGTGGNNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	782; 1467; 3076
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	16	96; 351; 696; 1614; 1754; 1826; 1917; 2058; 2403; 2589; 2620; 2646; 3002; 3386; 4106; 4157
CviJI	RG!CY	88	36; 42; 73; 167; 194; 320; 327; 347; 362; 462; 470; 476; 491; 559; 569; 631; 668; 701; 714; 752; 824; 833; 856; 966; 1133; 1153; 1295; 1376; 1390; 1404; 1685; 1726; 1798; 1921; 1950; 1956; 1965; 1973; 1996; 2008; 2014; 2095; 2112; 2120; 2147; 2172; 2256; 2265; 2269; 2293; 2331; 2407; 2424; 2443; 2506; 2550; 2560; 2577; 2660; 2687; 2691; 2728; 2751; 2767; 2947; 2974; 3035; 3157; 3196; 3253; 3260; 3267; 3286; 3297; 3548; 3577; 3620; 3631; 3696; 3775; 3800; 3805; 3851; 3941; 4039; 4065; 4083; 4094
CviKI-1	RG!CY	88	36; 42; 73; 167; 194; 320; 327; 347; 362; 462; 470; 476; 491; 559; 569; 631; 668; 701; 714; 752; 824; 833; 856; 966; 1133; 1153; 1295; 1376; 1390; 1404; 1685; 1726; 1798; 1921; 1950; 1956; 1965; 1973; 1996; 2008; 2014; 2095; 2112; 2120; 2147; 2172; 2256; 2265; 2269; 2293; 2331; 2407; 2424; 2443; 2506; 2550; 2560; 2577; 2660; 2687; 2691; 2728; 2751; 2767; 2947; 2974; 3035; 3157; 3196; 3253; 3260; 3267; 3286; 3297; 3548; 3577; 3620; 3631; 3696; 3775; 3800; 3805; 3851; 3941; 4039; 4065; 4083; 4094
CviQI	G!TAC	6	64; 315; 447; 540; 687; 2492
DdeI	C!TNAG	8	24; 715; 1667; 1969; 2850; 3299; 3422; 3831
DinI	GGC!GCC	3	108; 297; 2188
DpnI	GA!TC	24	29; 80; 130; 554; 601; 635; 734; 846; 2026; 2030; 2049; 2360; 2438; 2519; 2528; 2606; 2982; 2998; 3357; 3369; 3447; 3455; 3466; 3541
DpnII	!GATC	24	27; 78; 128; 552; 599; 633; 732; 844; 2024; 2028; 2047; 2358; 2436; 2517; 2526; 2604; 2980; 2996; 3355; 3367; 3445; 3453; 3464; 3539
DraI	TTT!AAA	3	889; 3331; 3350
DraII	RG!GNCCY	1	3285
DraIII	CACNNN!GTG	1	1303
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	338; 3667
DraRI	!NNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	3	1258; 2214; 4003
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	1	818
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	0	
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1258; 2214; 4003
EaeI	Y!GGCCR	9	165; 468; 489; 629; 831; 2093; 2267; 2658; 2685
EagI	C!GGCCG	2	831; 2093
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	4	568; 1654; 2531; 2741
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	4	568; 1654; 2531; 2741
EciI	GGCGANNNNNNNNNNNNNN!	4	1687; 2716; 3903; 4049
EciI	!NNNNNNNNNTCCGCC	3	1858; 1879; 1900
Ecl136II	GAG!CTC	1	36
EclXI	C!GGCCG	2	831; 2093
Eco24I	GRGCY!C	5	38; 75; 1378; 2552; 3262
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	2	754; 3176
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	2703; 3148
Eco47III	AGC!GCT	1	14
Eco52I	C!GGCCG	2	831; 2093
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	5	349; 592; 775; 2333; 2765
Eco57I	!NNNNNNNNNNNNNNNNCTCAG	2	159; 3563
Eco72I	CAC!GTG	3	495; 678; 708
Eco81I	CC!TNAGG	2	1667; 3299
Eco88I	C!YCGRG	4	31; 74; 322; 682
Eco91I	G!GTNACC	2	276; 423

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco105I	TAC!GTA	0	
Eco130I	C!CWGGG	4	1916; 2009; 2619; 3024
Eco147I	AGG!CCT	1	2008
EcoHI	!CCSGG	6	73; 74; 2189; 2349; 2962; 3726
EcoICRI	GAG!CTC	1	36
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	8	285; 349; 532; 592; 775; 2333; 2765; 3027
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	3	159; 2970; 3563
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	2	276; 423
Eco0109I	RG!GNCCY	1	3285
EcoRI	G!AATTC	1	47
EcoRII	!CCWGG	12	262; 272; 470; 1721; 1776; 1793; 2572; 3151; 3254; 3944; 3957; 4078
EcoRV	GAT!ATC	0	
EcoT14I	C!CWGGG	4	1916; 2009; 2619; 3024
EcoT22I	ATGCA!T	3	1759; 1831; 4162
EcoT38I	GRGCY!C	5	38; 75; 1378; 2552; 3262
Eco53kI	GAG!CTC	1	36
EgeI	GGC!GCC	3	108; 297; 2188
EheI	GGC!GCC	3	108; 297; 2188
ErhI	C!CWGGG	4	1916; 2009; 2619; 3024
EsaBC3I	TC!GA	17	33; 46; 59; 390; 432; 801; 1337; 2028; 2301; 2457; 2481; 2517; 2679; 2870; 2915; 3170; 4008
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	16	99; 354; 699; 1617; 1757; 1829; 1920; 2061; 2406; 2592; 2623; 2649; 3005; 3389; 4109; 4160
Fail	YA!TR	41	97; 352; 697; 748; 849; 859; 925; 970; 1175; 1603; 1615; 1746; 1755; 1818; 1827; 1851; 1918; 1942; 2059; 2123; 2404; 2429; 2590; 2621; 2647; 2719; 2935; 3003; 3081; 3133; 3294; 3311; 3313; 3315; 3387; 3665; 3854; 3970; 4043; 4107; 4158
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	2	597; 2527
FalI	!NNNNNNNNAAGNNNNNCTT	2	565; 2495
FaqI	GGGACNNNNNNNNNN!	3	2338; 2870; 2979
FaqI	!NNNNNNNNNNNNNGTCCC	4	1703; 1775; 1839; 3134
FatI	!CATG	16	95; 350; 695; 1613; 1753; 1825; 1916; 2057; 2402; 2588; 2619; 2645; 3001; 3385; 4105; 4156
FauI	CCCGCNNNN!	6	421; 1509; 1864; 1885; 3081; 3213
FauI	!NNNNNNNGCGGG	6	62; 1440; 2310; 2847; 2985; 3132
FauNDI	CA!TATG	0	
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	58
FmuI	GGNC!C	10	74; 75; 322; 670; 1297; 2706; 3151; 3197; 3255; 3288
Fnu4HI	GC!NGC	39	102; 105; 186; 348; 441; 609; 663; 666; 783; 831; 834; 964; 1483; 1505; 1519; 1957; 2096; 2148; 2159; 2249; 2254; 2291; 2332; 2419; 2422; 2425; 2661; 2757; 2798; 2812; 2926; 3265; 3280; 3491; 3697; 3700; 3765; 3908; 4063
FokI	GGATGNNNNNNNNNN!	8	175; 235; 499; 736; 2054; 2511; 2536; 2990
FokI	!NNNNNNNNNNNNNCATCC	2	166; 1860
FriOI	GRGCY!C	5	38; 75; 1378; 2552; 3262
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2289
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	10; 842; 1036; 1454; 2010; 3025; 3359; 3612
FspEI	CCNNNNNNNNNNNN!	141	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; 819; 847; 870; 909; 923; 1064; 1159; 1183; 1206; 1229; 1247; 1269; 1290; 1309; 1328; 1357; 1378; 1392; 1418; 1506; 1532; 1581; 1622; 1640; 1679; 1695; 1733; 1790; 1805; 1862; 1882; 1896; 1913; 1927; 1964; 1979; 2022; 2105; 2172; 2203; 2223; 2238; 2283; 2297; 2363; 2377; 2396; 2412; 2453; 2473; 2520; 2570; 2586; 2606; 2631; 2651; 2674; 2701; 2719; 2745; 2785; 2811; 2835; 2891; 2905; 2933; 2976; 2997; 3032; 3076; 3164; 3188; 3210; 3230; 3246; 3267; 3281; 3300; 3384; 3404; 3432; 3447; 3481; 3523; 3550; 3565; 3610; 3634; 3648; 3670; 3696; 3716; 3740; 3766; 3814; 3833; 3852; 3878; 3913; 3958; 3988; 4002; 4053; 4067; 4092; 4108; 4129; 4158

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	!NNNNNNNNNNNNNNNNNGG	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; 791; 815; 858; 958; 1027; 1057; 1135; 1184; 1206; 1234; 1270; 1315; 1344; 1380; 1399; 1427; 1447; 1510; 1533; 1641; 1673; 1691; 1720; 1763; 1792; 1903; 1932; 1975; 1996; 2024; 2057; 2077; 2102; 2129; 2154; 2176; 2204; 2230; 2251; 2302; 2323; 2341; 2389; 2425; 2481; 2506; 2530; 2559; 2582; 2606; 2632; 2654; 2673; 2698; 2738; 2774; 2839; 2924; 2948; 2977; 3011; 3032; 3052; 3097; 3124; 3143; 3176; 3228; 3259; 3286; 3338; 3436; 3507; 3552; 3613; 3678; 3712; 3738; 3756; 3792; 3862; 3885; 3907; 3931; 3964; 4012; 4047; 4065; 4122
Fsp4HI	GC!NGC	39	102; 105; 186; 348; 441; 609; 663; 666; 783; 831; 834; 964; 1483; 1505; 1519; 1957; 2096; 2148; 2159; 2249; 2254; 2291; 2332; 2419; 2422; 2425; 2661; 2757; 2798; 2812; 2926; 3265; 3280; 3491; 3697; 3700; 3765; 3908; 4063
GdiII	C!GGCCR	2	831; 2093
GdiII	Y!GGCCG	5	629; 831; 2093; 2658; 2685
GlaI	GC!GC	28	14; 108; 297; 376; 417; 579; 769; 771; 1452; 1460; 1486; 1508; 1517; 1530; 1561; 2180; 2188; 2252; 2289; 2555; 2815; 2991; 3077; 3480; 3589; 3763; 3863; 3930
GluI	GC!NGC	39	102; 105; 186; 348; 441; 609; 663; 666; 783; 831; 834; 964; 1483; 1505; 1519; 1957; 2096; 2148; 2159; 2249; 2254; 2291; 2332; 2419; 2422; 2425; 2661; 2757; 2798; 2812; 2926; 3265; 3280; 3491; 3697; 3700; 3765; 3908; 4063
GsaI	CCCAG!C	3	1734; 1806; 3805
GsaI	GCTGG!G	2	502; 2695
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	285; 532; 3027
GsuI	!NNNNNNNNNNNNNNNCTCCAG	1	2970
HaeI	WGG!CCW	9	167; 470; 491; 559; 2008; 2269; 3631; 4083; 4094
HaeII	RGCG!Y	8	16; 110; 299; 581; 1454; 1462; 2190; 3865
HaeIII	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 833; 1153; 1295; 1950; 1956; 1965; 2008; 2095; 2269; 2660; 2687; 3196; 3253; 3286; 3631; 4065; 4083; 4094
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNNN!	2	862; 2383
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	828; 2349
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNNN!	2	861; 2382
HaeIV	!NNNNNNNGAYNNNNNRTC	2	830; 2351
HapII	C!CGG	23	19; 75; 85; 245; 605; 806; 812; 1405; 2092; 2169; 2191; 2219; 2350; 2440; 2507; 2688; 2963; 2971; 3063; 3537; 3727; 3753; 3900
HgaI	GACGCNNNNN!	3	811; 2897; 2976
HgaI	!NNNNNNNNNNNGCGTC	3	1520; 3415; 3993
HhaI	GCG!C	28	15; 109; 298; 377; 418; 580; 770; 772; 1453; 1461; 1487; 1509; 1518; 1531; 1562; 2181; 2189; 2253; 2290; 2556; 2816; 2992; 3078; 3481; 3590; 3764; 3864; 3931
Hin1I	GR!CGYC	6	107; 296; 803; 2187; 2889; 2968
Hin1II	CATG!	16	99; 354; 699; 1617; 1757; 1829; 1920; 2061; 2406; 2592; 2623; 2649; 3005; 3389; 4109; 4160
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	2	861; 2382
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	829; 2350; 2380
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	861; 2382; 2412
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	829; 2350
Hin6I	G!CGC	28	13; 107; 296; 375; 416; 578; 768; 770; 1451; 1459; 1485; 1507; 1516; 1529; 1560; 2179; 2187; 2251; 2288; 2554; 2814; 2990; 3076; 3479; 3588; 3762; 3862; 3929
HinP1I	G!CGC	28	13; 107; 296; 375; 416; 578; 768; 770; 1451; 1459; 1485; 1507; 1516; 1529; 1560; 2179; 2187; 2251; 2288; 2554; 2814; 2990; 3076; 3479; 3588; 3762; 3862; 3929
HincII	GTY!RAC	2	59; 950
HindII	GTY!RAC	2	59; 950
HindIII	A!AGCTT	1	40
Hinfl	G!ANTC	13	22; 507; 838; 1230; 1252; 1662; 2672; 2806; 2858; 2916; 2953; 3735; 4131
HpaI	GTT!AAC	1	950
HpaII	C!CGG	23	19; 75; 85; 245; 605; 806; 812; 1405; 2092; 2169; 2191; 2219; 2350; 2440; 2507; 2688; 2963; 2971; 3063; 3537; 3727; 3753; 3900
HphI	GGTGANNNNNNNN!	4	288; 435; 3258; 3374
HphI	!NNNNNNNTCACC	6	375; 516; 594; 727; 1304; 2365

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hpy8I	GTN!NAC	8	59; 447; 675; 950; 1234; 1251; 1306; 3793
Hpy99I	CGWCG!	9	63; 805; 2277; 2305; 2599; 2614; 2891; 3276; 4009
Hpy166II	GTN!NAC	8	59; 447; 675; 950; 1234; 1251; 1306; 3793
Hpy188I	TCN!GA	11	27; 1361; 1970; 2154; 2498; 2851; 2952; 3431; 3565; 3918; 3996
Hpy188III	TC!NNGA	26	31; 408; 432; 480; 511; 812; 842; 1614; 1666; 1979; 2032; 2205; 2521; 2530; 2613; 2669; 2713; 2803; 2836; 2905; 3386; 3460; 3543; 3641; 3739; 3873
HpyAV	CCTTCNNNNNN!	7	183; 396; 438; 591; 2832; 2939; 3618
HpyAV	!NNNNNGAAGG	10	324; 477; 750; 1420; 2315; 3044; 3060; 3243; 3560; 3870
HpyCH4III	ACN!GT	10	63; 765; 1278; 2567; 2683; 2791; 3114; 3605; 4075; 4146
HpyCH4IV	A!CGT	13	137; 365; 494; 677; 707; 1247; 1259; 1302; 1412; 2303; 2490; 3271; 3404
HpyCH4V	TG!CA	21	54; 239; 350; 369; 675; 936; 963; 1031; 1748; 1757; 1820; 1829; 1944; 2020; 2079; 2238; 2413; 2427; 3497; 3793; 4160
HpyF3I	C!TNAG	8	24; 715; 1667; 1969; 2850; 3299; 3422; 3831
HpyF10VI	GCNNNNN!NNGC	26	185; 206; 245; 302; 575; 614; 830; 1414; 1444; 1471; 1513; 1754; 1826; 1877; 1956; 2178; 2262; 2285; 2424; 2547; 2630; 2897; 3084; 3288; 3487; 4059
Hsp92I	GR!CGYC	6	107; 296; 803; 2187; 2889; 2968
Hsp92II	CATG!	16	99; 354; 699; 1617; 1757; 1829; 1920; 2061; 2406; 2592; 2623; 2649; 3005; 3389; 4109; 4160
HspAI	G!CGC	28	13; 107; 296; 375; 416; 578; 768; 770; 1451; 1459; 1485; 1507; 1516; 1529; 1560; 2179; 2187; 2251; 2288; 2554; 2814; 2990; 3076; 3479; 3588; 3762; 3862; 3929
KasI	G!GCGCC	3	106; 295; 2186
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	67
Kpn2I	T!CCGGA	1	811
KspI	CCGC!GG	2	70; 186
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	950
Kzo9I	!GATC	24	27; 78; 128; 552; 599; 633; 732; 844; 2024; 2028; 2047; 2358; 2436; 2517; 2526; 2604; 2980; 2996; 3355; 3367; 3445; 3453; 3464; 3539
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	3	568; 2531; 2741
LpnI	RG!GCGY	8	14; 108; 297; 579; 1452; 1460; 2188; 3863
LpnPI	CCDGNNNNNNNNNN!	60	32; 88; 124; 219; 241; 258; 276; 298; 313; 484; 550; 583; 618; 655; 766; 819; 924; 1229; 1418; 1641; 1679; 1695; 1735; 1790; 1807; 1907; 1992; 2105; 2182; 2204; 2227; 2363; 2377; 2396; 2453; 2520; 2570; 2586; 2643; 2701; 2910; 2976; 3000; 3076; 3165; 3268; 3301; 3532; 3550; 3696; 3716; 3740; 3766; 3815; 3913; 3958; 3988; 4067; 4092; 4129
LpnPI	!NNNNNNNNNNNNNCHGG	51	4; 60; 230; 249; 355; 457; 484; 531; 590; 791; 1270; 1390; 1447; 1510; 1708; 1720; 1780; 1792; 2024; 2069; 2112; 2154; 2176; 2204; 2251; 2313; 2335; 2425; 2492; 2515; 2559; 2654; 2673; 2698; 2847; 2948; 2991; 3048; 3138; 3241; 3268; 3286; 3522; 3559; 3712; 3738; 3878; 3896; 3931; 4012; 4065
Lsp1109I	GCAGCNNNNNNNN!	9	113; 452; 620; 975; 2260; 2302; 2823; 3276; 3776
Lsp1109I	!NNNNNNNNNNNGCTGC	7	334; 1469; 2134; 2318; 2411; 3477; 3683
LweI	GCATCNNNNN!	7	188; 1003; 1766; 1838; 2486; 2550; 2825
LweI	!NNNNNNNNNGATGC	6	192; 213; 2145; 2400; 2616; 4008
MabI	A!CCWGGT	1	1776
MaeI	C!TAG	8	10; 842; 1036; 1454; 2010; 3025; 3359; 3612
MaeII	A!CGT	13	137; 365; 494; 677; 707; 1247; 1259; 1302; 1412; 2303; 2490; 3271; 3404
MaeIII	!GTNAC	12	276; 423; 726; 975; 1476; 1488; 2307; 2613; 3303; 3569; 3685; 3748
MalI	GA!TC	24	29; 80; 130; 554; 601; 635; 734; 846; 2026; 2030; 2049; 2360; 2438; 2519; 2528; 2606; 2982; 2998; 3357; 3369; 3447; 3455; 3466; 3541
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1611; 2800
MbiI	GAG!CGG	2	1447; 2854

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MboI	!GATC	24	27; 78; 128; 552; 599; 633; 732; 844; 2024; 2028; 2047; 2358; 2436; 2517; 2526; 2604; 2980; 2996; 3355; 3367; 3445; 3453; 3464; 3539
MboII	GAAGANNNNNNNN!	6	585; 1443; 1671; 2548; 2758; 3377
MboII	!NNNNNNNTCTTC	4	2838; 3005; 3205; 3448
McaTI	GCGC!GC	1	771
MfeI	C!AATTG	1	937
MfII	R!GATCY	10	27; 78; 128; 2358; 2604; 2996; 3355; 3367; 3453; 3464
MhII	GDGCH!C	15	38; 75; 257; 263; 271; 677; 683; 1378; 2133; 2226; 2300; 2490; 2552; 3262; 3795
MIsI	TGG!CCA	4	167; 470; 491; 2269
MluI	A!CGCGT	0	
MluNI	TGG!CCA	4	167; 470; 491; 2269
MlyI	GAGTCNNNNN!	2	1239; 1671
MlyI	!NNNNNGACTC	5	16; 832; 1246; 2852; 3729
Mly113I	GG!CGCC	3	107; 296; 2187
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1280
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	3712; 3896
MnII	CCTCNNNNNNN!	7	906; 1970; 2788; 2994; 3308; 3678; 4002
MnII	!NNNNNGAGG	15	144; 384; 414; 866; 1331; 1662; 1940; 1983; 1998; 2038; 2102; 2238; 2595; 3025; 3928
Mph1103I	ATGCA!T	3	1759; 1831; 4162
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	811
MroNI	G!CCGGC	3	1404; 2687; 2970
MroXI	GAANN!NNTTC	1	334
MscI	TGG!CCA	4	167; 470; 491; 2269
MseI	T!TAA	14	888; 949; 1070; 1091; 1102; 1114; 1125; 1142; 1240; 1511; 3330; 3344; 3349; 3401
MslI	CAYNN!NNRTG	3	274; 643; 2624
MspI	C!CGG	23	19; 75; 85; 245; 605; 806; 812; 1405; 2092; 2169; 2191; 2219; 2350; 2440; 2507; 2688; 2963; 2971; 3063; 3537; 3727; 3753; 3900
Msp20I	TGG!CCA	4	167; 470; 491; 2269
MspA1I	CMG!CKG	7	69; 104; 185; 1685; 2293; 3522; 3767
MspCI	C!TTAAG	1	1069
MspJI	CNNRRNNNNNNNN!	216	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; 818; 833; 847; 860; 875; 894; 911; 924; 965; 979; 992; 1010; 1048; 1063; 1081; 1122; 1146; 1166; 1184; 1205; 1228; 1260; 1275; 1297; 1315; 1328; 1349; 1366; 1379; 1392; 1408; 1421; 1451; 1466; 1491; 1509; 1522; 1537; 1561; 1575; 1599; 1624; 1640; 1678; 1694; 1733; 1747; 1761; 1789; 1805; 1819; 1833; 1862; 1875; 1896; 1905; 1927; 1957; 1973; 1991; 2021; 2044; 2068; 2092; 2111; 2139; 2165; 2181; 2194; 2217; 2231; 2251; 2264; 2278; 2297; 2311; 2324; 2340; 2355; 2368; 2384; 2399; 2415; 2440; 2459; 2475; 2488; 2501; 2519; 2533; 2547; 2563; 2585; 2601; 2620; 2642; 2658; 2681; 2700; 2714; 2730; 2744; 2764; 2780; 2793; 2815; 2848; 2862; 2882; 2895; 2909; 2963; 2976; 2999; 3012; 3031; 3048; 3075; 3111; 3144; 3163; 3188; 3209; 3236; 3249; 3266; 3280; 3295; 3311; 3371; 3396; 3412; 3434; 3447; 3461; 3492; 3506; 3531; 3549; 3564; 3577; 3596; 3609; 3624; 3653; 3672; 3690; 3715; 3730; 3749; 3765; 3784; 3802; 3818; 3832; 3851; 3878; 3901; 3923; 3942; 3957; 3970; 3987; 4007; 4034; 4047; 4066; 4091; 4114; 4128; 4141; 4158

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	178	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; 576; 598; 628; 645; 662; 682; 702; 725; 751; 772; 792; 821; 839; 868; 897; 939; 1022; 1057; 1084; 1107; 1136; 1180; 1202; 1234; 1270; 1287; 1308; 1345; 1365; 1382; 1399; 1434; 1452; 1470; 1487; 1511; 1533; 1560; 1588; 1614; 1652; 1673; 1690; 1708; 1731; 1752; 1780; 1803; 1824; 1842; 1863; 1880; 1903; 1927; 1947; 1965; 1987; 2018; 2040; 2066; 2085; 2102; 2130; 2149; 2168; 2186; 2204; 2225; 2247; 2271; 2304; 2324; 2342; 2363; 2389; 2416; 2433; 2450; 2467; 2493; 2515; 2537; 2555; 2575; 2594; 2616; 2654; 2674; 2698; 2718; 2738; 2765; 2789; 2822; 2841; 2869; 2891; 2920; 2948; 2973; 2992; 3011; 3032; 3049; 3066; 3097; 3124; 3144; 3167; 3187; 3224; 3241; 3260; 3286; 3306; 3345; 3372; 3391; 3409; 3446; 3464; 3505; 3523; 3549; 3566; 3598; 3627; 3655; 3676; 3699; 3718; 3739; 3757; 3774; 3792; 3818; 3839; 3859; 3879; 3897; 3918; 3944; 3961; 3980; 3999; 4028; 4047; 4065; 4084; 4102; 4120; 4143
MspR9I	CC!NGG	18	75; 76; 264; 274; 472; 1723; 1778; 1795; 2191; 2351; 2574; 2964; 3153; 3256; 3728; 3946; 3959; 4080
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	937
MvaI	CC!WGG	12	264; 274; 472; 1723; 1778; 1795; 2574; 3153; 3256; 3946; 3959; 4080
Mva1269I	GAATGCN!	1	938
Mva1269I	G!CATTC	1	1031
MvnI	CG!CG	20	69; 185; 416; 455; 740; 770; 836; 1111; 1487; 1507; 1531; 1562; 2253; 2554; 2992; 3076; 3139; 3208; 3481; 4062
MvrI	CGAT!CG	0	
MwoI	GCNNNN!NNGC	26	185; 206; 245; 302; 575; 614; 830; 1414; 1444; 1471; 1513; 1754; 1826; 1877; 1956; 2178; 2262; 2285; 2424; 2547; 2630; 2897; 3084; 3288; 3487; 4059
NaeI	GCC!GGC	3	1406; 2689; 2972
NarI	GG!CGCC	3	107; 296; 2187
NciI	CC!SGG	6	75; 76; 2191; 2351; 2964; 3728
NcoI	C!CATGG	2	1916; 2619
NdeI	CA!TATG	0	
NdeII	!GATC	24	27; 78; 128; 552; 599; 633; 732; 844; 2024; 2028; 2047; 2358; 2436; 2517; 2526; 2604; 2980; 2996; 3355; 3367; 3445; 3453; 3464; 3539
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	1	302
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	266
NgoMIV	G!CCGGC	3	1404; 2687; 2970
NheI	G!CTAGC	0	
NlaIII	CATG!	16	99; 354; 699; 1617; 1757; 1829; 1920; 2061; 2406; 2592; 2623; 2649; 3005; 3389; 4109; 4160
NlaIV	GGN!NCC	21	65; 73; 80; 108; 297; 321; 669; 810; 1342; 1363; 1375; 1566; 1727; 1799; 2188; 2223; 3071; 3150; 3195; 4038; 4077
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	405; 1019; 1334; 2926
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	1	3998
Nli3877I	CYCGR!G	4	35; 78; 326; 686
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	444; 1976; 2412
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	1941
NmeDI	RCCGGYNNNNNNN!	8	96; 256; 616; 817; 1416; 2518; 2699; 2982
NmeDI	!NNNNNNNNNNNNRCCGGY	8	71; 231; 591; 792; 1391; 2493; 2674; 2957
NmuCI	!GTSAC	6	276; 423; 726; 1476; 2307; 2613
NotI	GC!GGCCGC	1	831
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2289
NsiI	ATGCA!T	3	1759; 1831; 4162
NspI	RCATG!Y	5	354; 1757; 1829; 2592; 4109
NspV	TT!CGAA	2	45; 2869
OliI	CACNN!NNGTG	1	274
PabI	GTA!C	6	66; 317; 449; 542; 689; 2494
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	354; 1757; 1829; 2592
PaeR7I	C!TCGAG	1	31

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PagI	T!CATGA	2	1613; 3385
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3152; 3255
PauI	G!CGCGC	1	768
PceI	AGG!CCT	1	2008
PciI	A!CATGT	1	4105
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	568; 2531; 2741
PcsI	WCGNNNN!NNNCGW	6	2481; 2558; 2801; 2875; 3268; 3786
PctI	GAATGCN!	1	938
PctI	G!CATTC	1	1031
PdiI	GCC!GGC	3	1406; 2689; 2972
PdmI	GAANN!NNTTC	1	334
PfeI	G!AWTC	6	507; 2672; 2806; 2916; 2953; 4131
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2305
PfIMI	CCANNNN!NTGG	1	498
PfoI	T!CCNGGA	1	2962
PhoI	GG!CC	27	73; 167; 320; 470; 491; 559; 569; 631; 668; 833; 1153; 1295; 1950; 1956; 1965; 2008; 2095; 2269; 2660; 2687; 3196; 3253; 3286; 3631; 4065; 4083; 4094
PinAI	A!CCGGT	1	84
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	2568
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	2	2133; 2388
PleI	GAGTCNNNN!	2	1238; 1670
PleI	!NNNNNGACTC	5	16; 832; 1246; 2852; 3729
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	3	495; 678; 708
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	3	495; 678; 708
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	1269
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	3399
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	3431
PpiI	!NNNNNNNGAACNNNNNNCTC	1	1237
PpsI	GAGTCNNNN!	2	1238; 1670
PpsI	!NNNNNGACTC	5	16; 832; 1246; 2852; 3729
Ppu10I	A!TGCAT	3	1755; 1827; 4158
Ppu21I	YAC!GTR	7	138; 366; 495; 678; 708; 1303; 2491
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	4105
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	2	970; 1175
Psp03I	GGWC!C	2	2706; 3151
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	12	262; 272; 470; 1721; 1776; 1793; 2572; 3151; 3254; 3944; 3957; 4078
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	38
PspCI	CAC!GTG	3	495; 678; 708
PspEI	G!GTNACC	2	276; 423
PspGI	!CCWGG	12	262; 272; 470; 1721; 1776; 1793; 2572; 3151; 3254; 3944; 3957; 4078
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	21	65; 73; 80; 108; 297; 321; 669; 810; 1342; 1363; 1375; 1566; 1727; 1799; 2188; 2223; 3071; 3150; 3195; 4038; 4077
PspOMI	G!GGCCC	1	71
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	323; 1917; 2916
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2319
PspPI	G!GNCC	10	71; 72; 319; 667; 1294; 2703; 3148; 3194; 3252; 3285
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNNNN!	3	1740; 1812; 3318
PspPRI	!NNNNNNNNNNNNNNCTGRGG	3	532; 1653; 2848
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	3288
PstI	CTGCA!G	1	56
PstNI	CAGNN!CTG	2	3288; 3696
PsuI	R!GATCY	10	27; 78; 128; 2358; 2604; 2996; 3355; 3367; 3453; 3464
PsyI	GACN!NNGTC	1	2305
PteI	G!CGCGC	1	768
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	1685; 2293
RcaI	T!CATGA	2	1613; 3385
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	2702
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	916
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	6	65; 316; 448; 541; 688; 2493
RsaNI	G!TAC	6	64; 315; 447; 540; 687; 2492
RseI	CAYNN!NNRTG	3	274; 643; 2624
RsrII	CG!GWCCG	1	2703
Rsr2I	CG!GWCCG	1	2703
SacI	GAGCT!C	1	38
SacII	CCGC!GG	2	70; 186
SalI	G!TCGAC	1	57
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	3	568; 2531; 2741
SaqAI	T!TAA	14	888; 949; 1070; 1091; 1102; 1114; 1125; 1142; 1240; 1511; 3330; 3344; 3349; 3401
SatI	GC!NGC	39	102; 105; 186; 348; 441; 609; 663; 666; 783; 831; 834; 964; 1483; 1505; 1519; 1957; 2096; 2148; 2159; 2249; 2254; 2291; 2332; 2419; 2422; 2425; 2661; 2757; 2798; 2812; 2926; 3265; 3280; 3491; 3697; 3700; 3765; 3908; 4063
Sau96I	G!GNCC	10	71; 72; 319; 667; 1294; 2703; 3148; 3194; 3252; 3285
Sau3AI	!GATC	24	27; 78; 128; 552; 599; 633; 732; 844; 2024; 2028; 2047; 2358; 2436; 2517; 2526; 2604; 2980; 2996; 3355; 3367; 3445; 3453; 3464; 3539
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1239; 1671
SchI	!NNNNNGACTC	5	16; 832; 1246; 2852; 3729
SciI	CTC!GAG	1	33
ScrFI	CC!NGG	18	75; 76; 264; 274; 472; 1723; 1778; 1795; 2191; 2351; 2574; 2964; 3153; 3256; 3728; 3946; 3959; 4080
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNN!	5	396; 1765; 1837; 2006; 3948
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	2	2342; 2827
SdeOSI	GACNNNRTGANNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNTCAYNNNNGTC	0	
SdeOSI	TCAYNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	15	38; 75; 257; 263; 271; 677; 683; 1378; 2133; 2226; 2300; 2490; 2552; 3262; 3795
SelI	!CGCG	20	67; 183; 414; 453; 738; 768; 834; 1109; 1485; 1505; 1529; 1560; 2251; 2552; 2990; 3074; 3137; 3206; 3479; 4060

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SetI	ASST!	60	38; 44; 140; 175; 221; 292; 329; 349; 368; 388; 425; 430; 464; 497; 680; 703; 710; 716; 793; 826; 877; 898; 907; 919; 968; 1135; 1250; 1262; 1305; 1342; 1392; 1415; 1539; 1687; 1782; 1975; 2088; 2216; 2295; 2306; 2378; 2449; 2493; 2753; 2899; 2943; 3274; 3305; 3364; 3407; 3550; 3571; 3670; 3807; 3822; 3841; 3853; 3897; 3943; 3994
SexAI	A!CCWGGT	1	1776
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	7	188; 1003; 1766; 1838; 2486; 2550; 2825
SfaNI	!NNNNNNNNNGATGC	6	192; 213; 2145; 2400; 2616; 4008
SfcI	C!TRYAG	4	52; 1522; 3649; 3840
SfiI	GGCCNNNN!NGGCC	1	1962
SfoI	GGC!GCC	3	108; 297; 2188
Sfr274I	C!TCGAG	1	31
Sfr303I	CCGC!GG	2	70; 186
SfuI	TT!CGAA	2	45; 2869
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; 607; 624; 639; 654; 682; 696; 718; 732; 751; 765; 781; 798; 818; 833; 847; 894; 923; 965; 1048; 1122; 1206; 1228; 1260; 1297; 1315; 1334; 1349; 1391; 1408; 1425; 1460; 1474; 1491; 1513; 1537; 1561; 1626; 1640; 1678; 1694; 1734; 1747; 1766; 1789; 1806; 1819; 1838; 1868; 1889; 1906; 1929; 1964; 1991; 2022; 2044; 2070; 2092; 2111; 2139; 2175; 2194; 2217; 2231; 2251; 2264; 2278; 2297; 2311; 2330; 2362; 2376; 2389; 2415; 2446; 2459; 2476; 2493; 2507; 2524; 2542; 2557; 2585; 2601; 2620; 2642; 2658; 2681; 2700; 2725; 2744; 2764; 2791; 2815; 2848; 2867; 2895; 2909; 2975; 2999; 3014; 3037; 3058; 3075; 3123; 3150; 3164; 3193; 3217; 3250; 3267; 3287; 3300; 3313; 3371; 3398; 3417; 3447; 3472; 3492; 3506; 3531; 3549; 3586; 3624; 3653; 3681; 3695; 3715; 3730; 3751; 3765; 3784; 3802; 3818; 3858; 3878; 3905; 3923; 3944; 3957; 3970; 3987; 4011; 4034; 4066; 4091; 4118; 4140
SgeI	!NNNNNNNNNNNNNCNNG	152	5; 25; 54; 71; 97; 124; 170; 192; 214; 231; 249; 271; 298; 328; 352; 376; 394; 418; 440; 457; 479; 497; 523; 542; 581; 598; 628; 656; 682; 706; 725; 751; 772; 792; 821; 868; 897; 939; 1022; 1096; 1180; 1202; 1234; 1271; 1289; 1308; 1365; 1382; 1399; 1434; 1452; 1472; 1492; 1511; 1535; 1600; 1652; 1708; 1740; 1763; 1780; 1812; 1842; 1863; 1880; 1903; 1938; 1965; 1996; 2018; 2044; 2066; 2085; 2113; 2149; 2168; 2191; 2212; 2230; 2247; 2271; 2304; 2336; 2363; 2389; 2420; 2450; 2467; 2493; 2516; 2537; 2559; 2579; 2599; 2616; 2655; 2674; 2699; 2718; 2738; 2765; 2789; 2822; 2841; 2869; 2891; 2949; 2973; 2992; 3011; 3032; 3049; 3097; 3124; 3144; 3167; 3191; 3224; 3241; 3261; 3287; 3345; 3372; 3391; 3421; 3446; 3466; 3505; 3523; 3560; 3598; 3627; 3655; 3676; 3704; 3725; 3758; 3776; 3832; 3852; 3879; 3897; 3918; 3944; 3961; 3985; 4008; 4040; 4065; 4092; 4114; 4143
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	1334; 3121; 3914
SimI	!GACCC	4	410; 2615; 3183; 3431
SinI	G!GWCC	2	2703; 3148
SlaI	C!TCGAG	1	31
SmaI	CCC!GGG	1	76
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	3	274; 643; 2624
SmlI	C!TYRAG	7	31; 37; 1069; 2578; 3460; 3737; 3999
SmoI	C!TYRAG	7	31; 37; 1069; 2578; 3460; 3737; 3999
SmuI	CCCGCNNNN!	6	421; 1509; 1864; 1885; 3081; 3213
SmuI	!NNNNNNGCGGG	6	62; 1440; 2310; 2847; 2985; 3132
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	354; 1757; 1829; 2592
SrfI	GCCC!GGGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sse9I	!AATT	12	47; 402; 519; 937; 1001; 1079; 1105; 1116; 1763; 1835; 1927; 3345
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	2008
SsiI	C!CGC	30	67; 183; 414; 738; 783; 834; 1502; 1505; 1519; 1609; 1857; 1869; 1878; 1890; 1900; 1911; 1957; 2096; 2159; 2661; 2706; 2772; 2798; 2923; 2926; 3074; 3206; 3513; 3657; 4153
SsiI	G!CGG	26	69; 104; 185; 662; 665; 830; 1447; 1474; 1562; 1672; 2253; 2317; 2418; 2421; 2701; 2756; 2854; 2992; 3139; 3279; 3522; 3767; 3888; 3907; 4034; 4062
SspI	AAT!ATT	2	1095; 1648
SspDI	G!GCGCC	3	106; 295; 2186
SspD5I	GGTANNNNNNNN!	4	288; 435; 3258; 3374
SspD5I	!NNNNNNNNTCACC	6	374; 515; 593; 726; 1303; 2364
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; 1386; 1508; 1863; 1884; 2197; 2600; 2739; 2810; 3080; 3212; 3442; 3880
Sth132I	!NNNNNNNNCCGGG	16	61; 1387; 1439; 1540; 2267; 2309; 2342; 2846; 2955; 2984; 3131; 3235; 3266; 3719; 3763; 3971
Sth302II	CC!GG	23	20; 76; 86; 246; 606; 807; 813; 1406; 2093; 2170; 2192; 2220; 2351; 2441; 2508; 2689; 2964; 2972; 3064; 3538; 3728; 3754; 3901
StrI	C!TCGAG	1	31
StsI	GGATGNNNNNNNNNN!	8	176; 236; 500; 737; 2055; 2512; 2537; 2991
StsI	!NNNNNNNNNNNNNNNCATCC	2	165; 1859
StuI	AGG!CCT	1	2008
StyI	C!CWWGG	4	1916; 2009; 2619; 3024
StyD4I	!CCNGG	18	73; 74; 262; 272; 470; 1721; 1776; 1793; 2189; 2349; 2572; 2962; 3151; 3254; 3726; 3944; 3957; 4078
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	10	63; 765; 1278; 2567; 2683; 2791; 3114; 3605; 4075; 4146
TaiI	ACGT!	13	140; 368; 497; 680; 710; 1250; 1262; 1305; 1415; 2306; 2493; 3274; 3407
TaqI	T!CGA	17	32; 45; 58; 389; 431; 800; 1336; 2027; 2300; 2456; 2480; 2516; 2678; 2869; 2914; 3169; 4007
TaqII	GACCGANNNNNNNNNN!	4	745; 1207; 2224; 2892
TaqII	!NNNNNNNNTCGGTC	1	3136
TaqII	CACCCANNNNNNNNNN!	1	655
TaqII	!NNNNNNNNTGGGTG	2	2091; 2683
TasI	!AATT	12	47; 402; 519; 937; 1001; 1079; 1105; 1116; 1763; 1835; 1927; 3345
TatI	W!GTACW	2	446; 539
TauI	GCSG!C	22	107; 188; 665; 668; 785; 833; 836; 1507; 1521; 1959; 2098; 2161; 2256; 2421; 2424; 2663; 2759; 2800; 2928; 3282; 3910; 4065
TfiI	G!AWTC	6	507; 2672; 2806; 2916; 2953; 4131
TliI	C!TCGAG	1	31
TruII	T!TAA	14	888; 949; 1070; 1091; 1102; 1114; 1125; 1142; 1240; 1511; 3330; 3344; 3349; 3401
Tru9I	T!TAA	14	888; 949; 1070; 1091; 1102; 1114; 1125; 1142; 1240; 1511; 3330; 3344; 3349; 3401
TscAI	CASTGNN!	7	307; 538; 1033; 2316; 3426; 3697; 3710
TseI	G!CWGC	17	101; 347; 440; 608; 963; 1482; 2147; 2248; 2290; 2331; 2424; 2811; 3264; 3490; 3696; 3699; 3764
TsoI	TARCCANNNNNNNNNN!	2	1159; 1506
TsoI	!NNNNNNNNTGGYTA	3	350; 964; 2716
Tsp45I	!GTSAC	6	276; 423; 726; 1476; 2307; 2613
Tsp509I	!AATT	12	47; 402; 519; 937; 1001; 1079; 1105; 1116; 1763; 1835; 1927; 3345
TspDTI	ATGAANNNNNNNNNN!	4	661; 945; 2246; 2950
TspDTI	!NNNNNNNNTTCAT	5	222; 612; 2664; 3120; 3327
TspEI	!AATT	12	47; 402; 519; 937; 1001; 1079; 1105; 1116; 1763; 1835; 1927; 3345

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspGWI	ACGGANNNNNNNNNNN!	1	3062
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	74
TspRI	CASGNN!	7	307; 538; 1033; 2316; 3426; 3697; 3710
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2305
Tth111II	CAARCANNNNNNNNNN!	1	3514
Tth111II	!NNNNNNNNNTGYTTG	3	2622; 3482; 3521
UnbI	!GGNCC	10	70; 71; 318; 666; 1293; 2702; 3147; 3193; 3251; 3284
Van9II	CCANNNN!NTGG	1	498
Vha464I	C!TTAAG	1	1069
VneI	G!TGCAC	2	673; 3791
VpaK11AI	!GGWCC	2	2702; 3147
VpaK11BI	G!GWCC	2	2703; 3148
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	0	
XapI	R!AATY	4	47; 1001; 1105; 1116
XbaI	T!CTAGA	1	841
XceI	RCATG!Y	5	354; 1757; 1829; 2592; 4109
XcmI	CCANNNN!NNNTGG	0	
XhoI	C!TCGAG	1	31
XhoII	R!GATCY	10	27; 78; 128; 2358; 2604; 2996; 3355; 3367; 3453; 3464
XmaI	C!CCGGG	1	74
XmaJI	C!CTAGG	2	2009; 3024
XmiI	GT!MKAC	1	58
XmnI	GAANN!NNTTC	1	334
XspI	C!TAG	8	10; 842; 1036; 1454; 2010; 3025; 3359; 3612
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	1759; 1831; 4162