

Gateway® TagBFP-AS-N entry clone

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	5	83; 551; 951; 1150; 1355
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	1438; 2394; 4183
AatI	AGG!CCT	1	2188
AatII	GACGT!C	0	
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	163; 426
AccII	CG!CG	15	174; 911; 1291; 1667; 1687; 1711; 1742; 2433; 2734; 3172; 3256; 3319; 3388; 3661; 4242
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	2469
Acc36I	ACCTGCNNNN!	2	2635; 3085
Acc36I	!NNNNNNNNGCAGGT	1	2254
Acc65I	G!GTACC	1	168
AccB1I	G!GYRCC	4	168; 1520; 2366; 2401
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	1791; 2980
AccBSI	GAG!CGG	2	1627; 3034
AceIII	CAGTCNNNNNNN!	1	1323
AceIII	!NNNNNNNNNNGAGCTG	0	
AciI	C!CGC	26	172; 909; 1682; 1685; 1699; 1789; 2037; 2049; 2058; 2070; 2080; 2091; 2137; 2276; 2339; 2841; 2886; 2952; 2978; 3103; 3106; 3254; 3386; 3693; 3837; 4333
AciI	G!CGG	22	174; 905; 1627; 1654; 1742; 1852; 2433; 2497; 2598; 2601; 2881; 2936; 3034; 3172; 3319; 3459; 3702; 3947; 4068; 4087; 4214; 4242
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	191; 402; 2235; 2546; 2792; 3184; 3543; 3641; 3727
AclWI	!NNNNNGATCC	5	178; 2611; 3155; 3542; 3639
AcoI	Y!GGCCR	5	906; 2273; 2447; 2838; 2865
AcsI	R!AATY	4	152; 1181; 1285; 1296
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	476; 2513; 2945
AcuI	!NNNNNNNNNNNNNCTTCAG	1	3743
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	3	2367; 3069; 3148
AdeI	CACNNN!GTG	1	1483
AfaI	GT!AC	7	98; 170; 252; 279; 312; 936; 2673
AfeI	AGC!GCT	1	119
AfiI	CCNNNNN!NNGG	17	307; 652; 1379; 1705; 2097; 2348; 2892; 3173; 3205; 3337; 3372; 3422; 3454; 3807; 4086; 4252; 4270
AfIII	C!TTAAG	1	1249
AfIII	A!CRYGT	1	4285
AgeI	A!CCGGT	1	189
AgsI	TTS!AA	8	687; 762; 897; 1778; 1822; 1832; 2245; 3821
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	10	768; 1901; 1956; 1973; 2752; 3331; 3434; 4124; 4137; 4258
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	1	627
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	1	595
AleI	CACNN!NNGTG	0	
AlfI	GCANNNNNNTGCNNNNNNNNNN!	2	1941; 2013

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AlfI	!NNNNNNNNNNNGCANNNNNTGC	2	1907; 1979
AloI	GAACNNNNNTCCNNNNNNNNNN!	1	1449
AloI	!NNNNNNNGGANNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	1	1417
AluI	AG!CT	17	141; 147; 715; 751; 850; 927; 1146; 1313; 1570; 1865; 2153; 2473; 2931; 3728; 3985; 4031; 4121
AluBI	AG!CT	17	141; 147; 715; 751; 850; 927; 1146; 1313; 1570; 1865; 2153; 2473; 2931; 3728; 3985; 4031; 4121
AlwI	GGATCNNNN!	9	191; 402; 2235; 2546; 2792; 3184; 3543; 3641; 3727
AlwI	!NNNNNGATCC	5	178; 2611; 3155; 3542; 3639
Alw21I	GWGCW!C	4	143; 2480; 2670; 3975
Alw26I	GTCTCN!	0	
Alw26I	!NNNNNGAGAC	5	628; 1791; 2209; 3228; 3356
Alw44I	G!TGCAC	1	3971
AlwNI	CAGNNN!CTG	2	3468; 3876
Ama87I	C!YCGRG	2	136; 179
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	119
ApaI	GGGCC!C	1	180
ApaBI	GCANNNNN!TGC	3	1935; 2007; 3469
ApaLI	G!TGCAC	1	3971
ApeKI	G!CWGC	14	111; 1143; 1662; 2327; 2428; 2470; 2511; 2604; 2991; 3444; 3670; 3876; 3879; 3944
ApoI	R!AATTY	4	152; 1181; 1285; 1296
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	2882
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	2676; 3329; 4167
AquI	GCCGNACNNNNNNNNNNNNNNNNNN!	1	2766
AquI	!NNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	1	2195
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNCTCCYC	1	2937
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	0	
Asi256I	G!ATC	20	133; 184; 395; 1025; 2205; 2209; 2228; 2539; 2617; 2698; 2707; 2785; 3161; 3177; 3536; 3548; 3626; 3634; 3645; 3720
AsiGI	A!CCGGT	1	189
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	2485
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	168
AspA2I	C!CTAGG	2	2189; 3204
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	21	120; 1633; 1641; 1667; 1689; 1698; 1711; 1742; 2361; 2369; 2433; 2470; 2736; 2996; 3172; 3258; 3661; 3770; 3944; 4044; 4111
AspS9I	G!GNCC	11	176; 177; 346; 589; 920; 1474; 2883; 3328; 3374; 3432; 3465
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	150; 3049
AsuC2I	CC!SGG	6	180; 181; 2371; 2531; 3144; 3908
AsuHPI	GGTGANNNNNNNN!	2	3438; 3554
AsuHPI	!NNNNNNNTCACC	2	1484; 2545
AsuNHI	G!CTAGC	1	114
AvaI	C!YCGRG	2	136; 179
AvaII	G!GWCC	5	346; 589; 920; 2883; 3328
AviII	TGC!GCA	1	2469
AvrII	C!CTAGG	2	2189; 3204
AxyI	CC!TNAGG	2	1847; 3479
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNGT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BaeI	GRTACNNNNGTNNNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNNGTAYC	0	
BaeGI	GKGC!C	4	180; 2313; 2406; 3975
BalI	TGG!CCA	1	2449
BamHI	G!GATCC	1	183
BanI	G!GYRCC	4	168; 1520; 2366; 2401
BanII	GRGCY!C	5	143; 180; 1558; 2732; 3442
BanIII	AT!CGAT	1	2207
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	0	
BauI	C!ACGAG	2	3085; 4112
BauI	C!TCGTG	1	2959
BbeI	GGCGC!C	1	2370
Bbr7I	GAAGACNNNNNN!	1	502
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	497
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	1937; 2009; 2772
BbvI	GCAGCNNNNNN!	6	1155; 2440; 2482; 3003; 3456; 3956
BbvI	!NNNNNNNNNNNGCTGC	7	98; 1649; 2314; 2498; 2591; 3657; 3863
Bbv12I	GWGCW!C	4	143; 2480; 2670; 3975
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	4	1497; 2061; 2587; 3089
BccI	!NNNNNGATGG	5	611; 646; 1465; 2245; 2673
BceAI	ACGGCNNNNNNNNNNNN!	2	2793; 3280
BceAI	!NNNNNNNNNNNNNGCCGT	3	1508; 2326; 3785
Bcefl	ACGGCNNNNNNNNNNNN!	2	2793; 3280
Bcefl	!NNNNNNNNNNNNNGCCGT	3	1509; 2327; 3786
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	1796; 2586; 4087
BciVI	!NNNNNGGATAC	1	513
BclI	T!GATCA	0	
BcnI	CC!SGG	6	180; 181; 2371; 2531; 3144; 3908
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNNNN!	1	4220
BdaI	!NNNNNNNNNNTGANNNNNNNTCA	1	4186
BfaI	C!TAG	9	115; 917; 1022; 1216; 1634; 2190; 3205; 3539; 3792
BfiI	ACTGGGNNNNN!	1	2316
BfiI	!NNNNCCAGT	1	2068
BfmI	C!TRYAG	4	157; 1702; 3829; 4020
BfoI	RGCGC!Y	5	121; 1634; 1642; 2370; 4045
BfrI	C!TTAAG	1	1249
BfuI	GTATCCNNNNNN!	3	1796; 2586; 4087
BfuI	!NNNNNGGATAC	1	513
BfuAI	ACCTGCNNNN!	2	2635; 3085
BfuAI	!NNNNNNNNNGCAGGT	1	2254
BfuCI	!GATC	20	132; 183; 394; 1024; 2204; 2208; 2227; 2538; 2616; 2697; 2706; 2784; 3160; 3176; 3535; 3547; 3625; 3633; 3644; 3719
BglI	GCCNNNN!NGGC	1	2142
BglII	A!GATCT	1	132
BisI	GC!NGC	30	112; 906; 909; 1144; 1663; 1685; 1699; 2137; 2276; 2328; 2339; 2429; 2434; 2471; 2512; 2599; 2605; 2841; 2937; 2978; 2992; 3106; 3445; 3460; 3671; 3877; 3880; 3945; 4088; 4243
BlnI	C!CTAGG	2	2189; 3204
BlpI	GC!TNAGC	0	

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BlsI	GCN!GC	30	113; 907; 910; 1145; 1664; 1686; 1700; 2138; 2277; 2329; 2340; 2430; 2435; 2472; 2513; 2600; 2606; 2842; 2938; 2979; 2993; 3107; 3446; 3461; 3672; 3878; 3881; 3946; 4089; 4244
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	5	346; 589; 920; 2883; 3328
Bme1390I	CC!NGG	16	180; 181; 770; 1903; 1958; 1975; 2371; 2531; 2754; 3144; 3333; 3436; 3908; 4126; 4139; 4260
BmeRI	GACNN!NNGTC	0	
BmeT110I	C!YCGRG	2	136; 179
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	11	177; 178; 347; 590; 921; 1475; 2884; 3329; 3375; 3433; 3466
BmiI	GGN!NCC	17	170; 178; 185; 922; 1522; 1543; 1555; 1746; 1907; 1979; 2368; 2403; 3251; 3330; 3375; 4218; 4257
BmrI	ACTGGGNNNNN!	1	2316
BmrI	!NNNNCCCAGT	1	2068
BmrFI	CC!NGG	16	180; 181; 770; 1903; 1958; 1975; 2371; 2531; 2754; 3144; 3333; 3436; 3908; 4126; 4139; 4260
BmsI	GCATCNNNNN!	6	1183; 1946; 2018; 2666; 2730; 3005
BmsI	!NNNNNNNNNGATGC	4	2325; 2580; 2796; 4188
BmtI	GCTAG!C	1	118
BmuI	ACTGGGNNNNN!	1	2316
BmuI	!NNNNCCCAGT	1	2068
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	1	497
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	2156; 3055
BpI	!NNNNNNNNGAGNNNNNNCTC	2	2124; 3023
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	1	3207
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	1	3150
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	150; 3049
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	497
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	3661; 4200
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	4	127; 404; 2743; 3902
BpuMI	CC!SGG	6	180; 181; 2371; 2531; 3144; 3908
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	3356
Bsa29I	AT!CGAT	1	2207
BsaAI	YAC!GTR	2	1483; 2671
BsaBI	GATNN!NNATC	2	1029; 2226
BsaHI	GR!CGYC	3	2367; 3069; 3148
BsaJI	C!CNNGG	16	172; 179; 1901; 1973; 2096; 2131; 2140; 2189; 2530; 2799; 3204; 3331; 3332; 3434; 3435; 4125
BsaMI	GAATGCN!	1	1118
BsaMI	G!CATTC	2	625; 1211
BsaWI	W!CCGGW	6	123; 189; 2398; 3242; 3932; 4079
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	1447
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	
BsaXI	GGAGNNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	1417
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTTG	2	1368; 3275
Bsc4I	CCNNNNN!NNGG	17	307; 652; 1379; 1705; 2097; 2348; 2892; 3173; 3205; 3337; 3372; 3422; 3454; 3807; 4086; 4252; 4270
BscAI	GCATCNNNN!	6	1182; 1945; 2017; 2665; 2729; 3004
BscAI	!NNNNNNGATGC	4	2328; 2583; 2799; 4191
Bse1I	ACTGGN!	3	2311; 2512; 3758
Bse1I	C!CAGT	5	592; 1396; 2074; 3870; 3883
Bse8I	GATNN!NNATC	2	1029; 2226
Bse21I	CC!TNAGG	2	1847; 3479
Bse118I	R!CCGGY	5	189; 1584; 2686; 2867; 3150

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BseAI	T!CCGGA	0	
BseBI	CC!WGG	10	770; 1903; 1958; 1975; 2754; 3333; 3436; 4126; 4139; 4260
BseCI	AT!CGAT	1	2207
BseDI	C!CNNGG	16	172; 179; 1901; 1973; 2096; 2131; 2140; 2189; 2530; 2799; 3204; 3331; 3332; 3434; 3435; 4125
Bse3DI	GCAATGNN!	2	77; 2600
Bse3DI	!CATTGC	1	959
BseGI	GGATGNN!	5	622; 2227; 2684; 2709; 3163
BseGI	!CATCC	1	2053
BseJI	GATNN!NNATC	2	1029; 2226
BseLI	CCNNNNN!NNGG	17	307; 652; 1379; 1705; 2097; 2348; 2892; 3173; 3205; 3337; 3372; 3422; 3454; 3807; 4086; 4252; 4270
BseMI	GCAATGNN!	2	77; 2600
BseMI	!CATTGC	1	959
BseMII	CTCAGNNNNNNNNNN!	3	143; 529; 3493
BseMII	!NNNNNNNNCTGAG	7	275; 623; 1838; 2140; 3021; 3593; 4002
BseNI	ACTGGN!	3	2311; 2512; 3758
BseNI	C!CAGT	5	592; 1396; 2074; 3870; 3883
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	2185
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	4	180; 2313; 2406; 3975
BseXI	GCAGCNNNNNNNN!	6	1155; 2440; 2482; 3003; 3456; 3956
BseXI	!NNNNNNNNNNNGCTGC	7	98; 1649; 2314; 2498; 2591; 3657; 3863
BseX3I	C!GGCCG	2	906; 2273
BseYI	C!CCAGC	4	923; 1910; 1982; 3981
BseYI	G!CTGGG	1	2871
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	15	174; 911; 1291; 1667; 1687; 1711; 1742; 2433; 2734; 3172; 3256; 3319; 3388; 3661; 4242
Bsh1285I	CGRY!CG	4	194; 909; 2276; 3951
BshFI	GG!CC	19	178; 908; 1333; 1475; 2130; 2136; 2145; 2188; 2275; 2449; 2840; 2867; 3376; 3433; 3466; 3811; 4245; 4263; 4274
BshNI	G!GYRCC	4	168; 1520; 2366; 2401
BshTI	A!CCGGT	1	189
BshVI	AT!CGAT	1	2207
BsiEI	CGRY!CG	4	194; 909; 2276; 3951
BsiHKAI	GWGCW!C	4	143; 2480; 2670; 3975
BsiHKCI	C!YCGRG	2	136; 179
BsiSI	C!CGG	19	124; 180; 190; 1585; 2272; 2349; 2371; 2399; 2530; 2620; 2687; 2868; 3143; 3151; 3243; 3717; 3907; 3933; 4080
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	17	307; 652; 1379; 1705; 2097; 2348; 2892; 3173; 3205; 3337; 3372; 3422; 3454; 3807; 4086; 4252; 4270
BsIFI	GGGACNNNNNNNNNN!	3	2518; 3050; 3159
BsIFI	!NNNNNNNNNNNNNGTCCC	4	1883; 1955; 2019; 3314
BsmI	GAATGCN!	1	1118
BsmI	G!CATTC	2	625; 1211
BsmAI	GTCTCN!	0	
BsmAI	!NNNNNGAGAC	5	628; 1791; 2209; 3228; 3356
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	3	2518; 3050; 3159
BsmFI	!NNNNNNNNNNNNNGTCCC	4	1883; 1955; 2019; 3314
BsnI	GG!CC	19	178; 908; 1333; 1475; 2130; 2136; 2145; 2188; 2275; 2449; 2840; 2867; 3376; 3433; 3466; 3811; 4245; 4263; 4274
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	3356
BsoBI	C!YCGRG	2	136; 179
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	2	2096; 2799
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	1	3170
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	3591; 3769
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	3623; 3801
Bsp24I	!NNNNNNNGACNNNNNNNTGG	1	3138

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Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	150; 3049
Bsp120I	G!GGCCC	1	176
Bsp143I	!GATC	20	132; 183; 394; 1024; 2204; 2208; 2227; 2538; 2616; 2697; 2706; 2784; 3160; 3176; 3535; 3547; 3625; 3633; 3644; 3719
Bsp1286I	GDGCH!C	10	143; 180; 1558; 2313; 2406; 2480; 2670; 2732; 3442; 3975
Bsp1407I	T!GTACA	3	96; 277; 934
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	26	172; 909; 1682; 1685; 1699; 1789; 2037; 2049; 2058; 2070; 2080; 2091; 2137; 2276; 2339; 2841; 2886; 2952; 2978; 3103; 3106; 3254; 3386; 3693; 3837; 4333
BspACI	G!CGG	22	174; 905; 1627; 1654; 1742; 1852; 2433; 2497; 2598; 2601; 2881; 2936; 3034; 3172; 3319; 3459; 3702; 3947; 4068; 4087; 4214; 4242
BspCNI	CTCAGNNNNNNNN!	3	142; 528; 3492
BspCNI	!NNNNNNNCTGAG	7	276; 624; 1839; 2141; 3022; 3594; 4003
BspDI	AT!CGAT	1	2207
BspD6I	GACTCNNNN!	5	135; 921; 1440; 3046; 3923
BspD6I	!NNNNNNGAGTC	2	1403; 1835
BspEI	T!CCGGA	0	
BspFNI	CG!CG	15	174; 911; 1291; 1667; 1687; 1711; 1742; 2433; 2734; 3172; 3256; 3319; 3388; 3661; 4242
BspHI	T!CATGA	2	1793; 3565
BspLI	GGN!NCC	17	170; 178; 185; 922; 1522; 1543; 1555; 1746; 1907; 1979; 2368; 2403; 3251; 3330; 3375; 4218; 4257
BspMI	ACCTGCNNNN!	2	2635; 3085
BspMI	!NNNNNNNNGCAGGT	1	2254
BspOI	GCTAG!C	1	118
BspPI	GGATCNNNN!	9	191; 402; 2235; 2546; 2792; 3184; 3543; 3641; 3727
BspPI	!NNNNNGATCC	5	178; 2611; 3155; 3542; 3639
BspQI	GCTCTTCN!	0	
BspQI	!NNNNGAAGAGC	2	2711; 2921
BspTI	C!TTAAG	1	1249
BspT104I	TT!CGAA	2	150; 3049
BspT107I	G!GYRCC	4	168; 1520; 2366; 2401
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	3356
BsrI	ACTGGN!	3	2311; 2512; 3758
BsrI	C!CAGT	5	592; 1396; 2074; 3870; 3883
BsrBI	CCG!CTC	2	1791; 2980
BsrBI	GAG!CGG	2	1627; 3034
BsrDI	GCAATGNN!	2	77; 2600
BsrDI	!CATTGC	1	959
BsrFI	R!CCGGY	5	189; 1584; 2686; 2867; 3150
BsrGI	T!GTACA	3	96; 277; 934
BsrSI	ACTGGN!	3	2311; 2512; 3758
BsrSI	C!CAGT	5	592; 1396; 2074; 3870; 3883
BssAI	R!CCGGY	5	189; 1584; 2686; 2867; 3150
BssECI	C!CNNGG	16	172; 179; 1901; 1973; 2096; 2131; 2140; 2189; 2530; 2799; 3204; 3331; 3332; 3434; 3435; 4125
BssHII	G!CGCGC	0	
BssKI	!CCNNGG	16	178; 179; 768; 1901; 1956; 1973; 2369; 2529; 2752; 3142; 3331; 3434; 3906; 4124; 4137; 4258
BssMI	!GATC	20	132; 183; 394; 1024; 2204; 2208; 2227; 2538; 2616; 2697; 2706; 2784; 3160; 3176; 3535; 3547; 3625; 3633; 3644; 3719
BssNI	GR!CGYC	3	2367; 3069; 3148
BssNAI	GTA!TAC	1	427
BssSI	C!ACGAG	2	3085; 4112
BssSI	C!TCGTG	1	2959
BssT1I	C!CWWGG	4	2096; 2189; 2799; 3204
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	1834; 2711; 2921
Bst98I	C!TTAAG	1	1249
Bst1107I	GTA!TAC	1	427
BstACI	GR!CGYC	3	2367; 3069; 3148
BstAFI	C!TTAAG	1	1249

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstAPI	GCANNNN!NTGC	3	1934; 2006; 3468
BstAUI	T!GTACA	3	96; 277; 934
BstBI	TT!CGAA	2	150; 3049
Bst2BI	C!ACGAG	2	3085; 4112
Bst2BI	C!TCGTG	1	2959
BstBAI	YAC!GTR	2	1483; 2671
Bst4CI	ACN!GT	12	168; 255; 496; 538; 1458; 2747; 2863; 2971; 3294; 3785; 4255; 4326
BstC8I	GCN!NGC	27	109; 116; 176; 1586; 1629; 1643; 1916; 1935; 1988; 2007; 2261; 2447; 2666; 2732; 2738; 2770; 2811; 2815; 2869; 3152; 3339; 3386; 3442; 3464; 3675; 4235; 4272
BstDEI	C!TNAG	13	129; 284; 398; 515; 632; 740; 878; 1847; 2149; 3030; 3479; 3602; 4011
BstDSI	C!CRYGG	3	172; 2096; 2799
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	1	305
BstF5I	GGATGNN!	5	622; 2227; 2684; 2709; 3163
BstF5I	!CATCC	1	2053
BstFNI	CG!CG	15	174; 911; 1291; 1667; 1687; 1711; 1742; 2433; 2734; 3172; 3256; 3319; 3388; 3661; 4242
BstH2I	RGCGC!Y	5	121; 1634; 1642; 2370; 4045
BstHHI	GCG!C	21	120; 1633; 1641; 1667; 1689; 1698; 1711; 1742; 2361; 2369; 2433; 2470; 2736; 2996; 3172; 3258; 3661; 3770; 3944; 4044; 4111
BstKTI	GAT!C	20	135; 186; 397; 1027; 2207; 2211; 2230; 2541; 2619; 2700; 2709; 2787; 3163; 3179; 3538; 3550; 3628; 3636; 3647; 3722
BstMAI	GTCTCN!	0	
BstMAI	!NNNNNGAGAC	5	628; 1791; 2209; 3228; 3356
BstMBI	!GATC	20	132; 183; 394; 1024; 2204; 2208; 2227; 2538; 2616; 2697; 2706; 2784; 3160; 3176; 3535; 3547; 3625; 3633; 3644; 3719
BstMCI	CGRY!CG	4	194; 909; 2276; 3951
BstMWI	GCNNNNN!NNGC	20	117; 1594; 1624; 1651; 1693; 1934; 2006; 2057; 2136; 2358; 2442; 2465; 2604; 2727; 2810; 3077; 3264; 3468; 3667; 4239
BstNI	CC!WGG	10	770; 1903; 1958; 1975; 2754; 3333; 3436; 4126; 4139; 4260
BstNSI	RCATG!Y	4	1937; 2009; 2772; 4289
BstOI	CC!WGG	10	770; 1903; 1958; 1975; 2754; 3333; 3436; 4126; 4139; 4260
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	16	178; 179; 768; 1901; 1956; 1973; 2369; 2529; 2752; 3142; 3331; 3434; 3906; 4124; 4137; 4258
BstSFI	C!TRYAG	4	157; 1702; 3829; 4020
BstSLI	GKGC!C	4	180; 2313; 2406; 3975
BstSNI	TAC!GTA	0	
BstUI	CG!CG	15	174; 911; 1291; 1667; 1687; 1711; 1742; 2433; 2734; 3172; 3256; 3319; 3388; 3661; 4242
Bst2UI	CC!WGG	10	770; 1903; 1958; 1975; 2754; 3333; 3436; 4126; 4139; 4260
BstV1I	GCAGCNNNNNNNN!	6	1155; 2440; 2482; 3003; 3456; 3956
BstV1I	!NNNNNNNNNNNGCTGC	7	98; 1649; 2314; 2498; 2591; 3657; 3863
BstV2I	GAAGACNN!	1	497
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	10	132; 183; 394; 2538; 2784; 3176; 3535; 3547; 3633; 3644
BstYI	R!GATCY	10	132; 183; 394; 2538; 2784; 3176; 3535; 3547; 3633; 3644
BstZI	C!GGCCG	2	906; 2273
BstZ17I	GTA!TAC	1	427
BsuI	GTATCCNNNNNN!	3	1796; 2586; 4087
BsuI	!NNNNNGGATAC	1	513
Bsu15I	AT!CGAT	1	2207
Bsu36I	CC!TNAGG	2	1847; 3479
BsuRI	GG!CC	19	178; 908; 1333; 1475; 2130; 2136; 2145; 2188; 2275; 2449; 2840; 2867; 3376; 3433; 3466; 3811; 4245; 4263; 4274
BsuTUI	AT!CGAT	1	2207
BtgI	C!CRYGG	3	172; 2096; 2799
BtgZI	GCGATGNNNNNNNNNN!	2	1484; 2819
BtgZI	!NNNNNNNNNNNNNCATCGC	2	2638; 2982

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BthCI	GCNG!C	30	114; 908; 911; 1146; 1665; 1687; 1701; 2139; 2278; 2330; 2341; 2431; 2436; 2473; 2514; 2601; 2607; 2843; 2939; 2980; 2994; 3108; 3447; 3462; 3673; 3879; 3882; 3947; 4090; 4245
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	1206
BtsCI	GGATGNN!	5	622; 2227; 2684; 2709; 3163
BtsCI	!CATCC	1	2053
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	2635; 3085
BveI	!NNNNNNNNNGCAGGT	1	2254
Cac8I	GCN!NGC	27	109; 116; 176; 1586; 1629; 1643; 1916; 1935; 1988; 2007; 2261; 2447; 2666; 2732; 2738; 2770; 2811; 2815; 2869; 3152; 3339; 3386; 3442; 3464; 3675; 4235; 4272
CaiI	CAGNNN!CTG	2	3468; 3876
CciI	T!CATGA	2	1793; 3565
CciNI	GC!GGCCGC	1	906
CdiI	CATC!G	4	2656; 2661; 2859; 3000
CdiI	C!GATG	2	1470; 2805
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	4239
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	2	2028; 2070
CelII	GC!TNAGC	0	
CfoI	GCG!C	21	120; 1633; 1641; 1667; 1689; 1698; 1711; 1742; 2361; 2369; 2433; 2470; 2736; 2996; 3172; 3258; 3661; 3770; 3944; 4044; 4111
CfrI	Y!GGCCR	5	906; 2273; 2447; 2838; 2865
Cfr9I	C!CCGGG	1	179
Cfr10I	R!CCGGY	5	189; 1584; 2686; 2867; 3150
Cfr13I	G!GNCC	11	176; 177; 346; 589; 920; 1474; 2883; 3328; 3374; 3432; 3465
Cfr42I	CCGC!GG	1	175
ChaI	GATC!	20	136; 187; 398; 1028; 2208; 2212; 2231; 2542; 2620; 2701; 2710; 2788; 3164; 3180; 3539; 3551; 3629; 3637; 3648; 3723
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	4	2184; 3624; 3724; 3802
CjeI	!NNNNNNNNNACNNNNNNNTGG	6	570; 1851; 1946; 3138; 3688; 4243
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	6	604; 1885; 1980; 3172; 3722; 4277
CjeI	!NNNNNNNNCCANNNNNNGT	4	2150; 3590; 3690; 3768
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	2	3624; 3802
CjePI	!NNNNNNNNNGANNNNNNNNTGG	3	753; 3138; 3737
CjePI	GANNNNNNNNTGGNNNNNNNNNNNNNN!	3	786; 3171; 3770
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	3591; 3769
Clal	AT!CGAT	1	2207
CpoI	CG!GWCCG	1	2883
CseI	GACGCNNNNN!	2	3077; 3156
CseI	!NNNNNNNNNNNGCGTC	3	1700; 3595; 4173
CsiI	A!CCWGGT	1	1956
CspI	CG!GWCCG	1	2883
Csp6I	G!TAC	7	97; 169; 251; 278; 311; 935; 2672
Csp45I	TT!CGAA	2	150; 3049
CspAI	A!CCGGT	1	189
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNNNGTGG	0	
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	2	1647; 3256
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	17	201; 467; 678; 841; 1794; 1934; 2006; 2097; 2238; 2583; 2769; 2800; 2826; 3182; 3566; 4286; 4337
CviJI	RG!CY	77	10; 111; 141; 147; 178; 300; 715; 751; 850; 908; 927; 1036; 1146; 1313; 1333; 1475; 1556; 1570; 1584; 1865; 1906; 1978; 2101; 2130; 2136; 2145; 2153; 2176; 2188; 2194; 2275; 2292; 2300; 2327; 2352; 2436; 2445; 2449; 2473; 2511; 2587; 2604; 2623; 2686; 2730; 2740; 2757; 2840; 2867; 2871; 2908; 2931; 2947; 3127; 3154; 3215; 3337; 3376; 3433; 3440; 3447; 3466; 3477; 3728; 3757; 3800; 3811; 3876; 3955; 3980; 3985; 4031; 4121; 4219; 4245; 4263; 4274

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	77	10; 111; 141; 147; 178; 300; 715; 751; 850; 908; 927; 1036; 1146; 1313; 1333; 1475; 1556; 1570; 1584; 1865; 1906; 1978; 2101; 2130; 2136; 2145; 2153; 2176; 2188; 2194; 2275; 2292; 2300; 2327; 2352; 2436; 2445; 2449; 2473; 2511; 2587; 2604; 2623; 2686; 2730; 2740; 2757; 2840; 2867; 2871; 2908; 2931; 2947; 3127; 3154; 3215; 3337; 3376; 3433; 3440; 3447; 3466; 3477; 3728; 3757; 3800; 3811; 3876; 3955; 3980; 3985; 4031; 4121; 4219; 4245; 4263; 4274
CviQI	G!TAC	7	97; 169; 251; 278; 311; 935; 2672
DdeI	C!TNAG	13	129; 284; 398; 515; 632; 740; 878; 1847; 2149; 3030; 3479; 3602; 4011
DinI	GGC!GCC	1	2368
DpnI	GA!TC	20	134; 185; 396; 1026; 2206; 2210; 2229; 2540; 2618; 2699; 2708; 2786; 3162; 3178; 3537; 3549; 3627; 3635; 3646; 3721
DpnII	!GATC	20	132; 183; 394; 1024; 2204; 2208; 2227; 2538; 2616; 2697; 2706; 2784; 3160; 3176; 3535; 3547; 3625; 3633; 3644; 3719
DraI	TTT!AAA	5	273; 441; 1069; 3511; 3530
DraII	RG!GNCCY	3	346; 920; 3465
DraIII	CACNNN!GTG	1	1483
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	1	3847
DraRI	!NNNNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	1438; 2394; 4183
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	649
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	1438; 2394; 4183
EaeI	Y!GGCCR	5	906; 2273; 2447; 2838; 2865
EagI	C!GGCCG	2	906; 2273
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	1834; 2711; 2921
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	1834; 2711; 2921
EciI	GGCGGANNNNNNNNNNNN!	4	1867; 2896; 4083; 4229
EciI	!NNNNNNNNNTCCGCC	3	2038; 2059; 2080
Ecl136II	GAG!CTC	1	141
EclXI	C!GGCCG	2	906; 2273
Eco24I	GRGCY!C	5	143; 180; 1558; 2732; 3442
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	1	3356
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	5	346; 589; 920; 2883; 3328
Eco47III	AGC!GCT	1	119
Eco52I	C!GGCCG	2	906; 2273
Eco57I	CTGAAGNNNNNNNNNNNNNN!	3	476; 2513; 2945
Eco57I	!NNNNNNNNNNNNNNNCTTCAG	1	3743
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	2	1847; 3479
Eco88I	C!YCGRG	2	136; 179
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	0	
Eco130I	C!CWWGG	4	2096; 2189; 2799; 3204
Eco147I	AGG!CCT	1	2188
EcoHI	!CCSGG	6	178; 179; 2369; 2529; 3142; 3906
EcoICRI	GAG!CTC	1	141
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	4	476; 2513; 2945; 3207
Eco57MI	!NNNNNNNNNNNNNNNCTYCAG	2	3150; 3743
EcoNI	CCTNN!NNNAGG	1	305
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	3	346; 920; 3465
EcoRI	G!AATTC	1	152
EcoRII	!CCWGG	10	768; 1901; 1956; 1973; 2752; 3331; 3434; 4124; 4137; 4258
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	4	2096; 2189; 2799; 3204
EcoT22I	ATGCA!T	4	230; 1939; 2011; 4342
EcoT38I	GRGCY!C	5	143; 180; 1558; 2732; 3442

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco53kI	GAG!CTC	1	141
EgeI	GGC!GCC	1	2368
EheI	GGC!GCC	1	2368
ErhI	C!CWVGG	4	2096; 2189; 2799; 3204
EsaBC3I	TC!GA	14	138; 151; 164; 1517; 2208; 2481; 2637; 2661; 2697; 2859; 3050; 3095; 3350; 4188
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	17	204; 470; 681; 844; 1797; 1937; 2009; 2100; 2241; 2586; 2772; 2803; 2829; 3185; 3569; 4289; 4340
Fail	YA!TR	57	83; 202; 226; 232; 242; 244; 370; 390; 392; 416; 427; 468; 488; 551; 598; 642; 679; 732; 782; 842; 951; 1029; 1039; 1105; 1150; 1355; 1783; 1795; 1926; 1935; 1998; 2007; 2031; 2098; 2122; 2239; 2303; 2584; 2609; 2770; 2801; 2827; 2899; 3115; 3183; 3261; 3313; 3474; 3493; 3495; 3567; 3845; 4034; 4150; 4223; 4287; 4338
FalI	AAGNNNNNCTNNNNNNNNNNNN!	3	91; 980; 2707
FalI	!NNNNNNNNNAAGNNNNNCTT	3	59; 948; 2675
FaqI	GGGACNNNNNNNNNN!	3	2518; 3050; 3159
FaqI	!NNNNNNNNNNNNNGTCCC	4	1883; 1955; 2019; 3314
FatI	!CATG	17	200; 466; 677; 840; 1793; 1933; 2005; 2096; 2237; 2582; 2768; 2799; 2825; 3181; 3565; 4285; 4336
FauI	CCCGCNNNN!	5	1689; 2044; 2065; 3261; 3393
FauI	!NNNNNNNGCGGG	6	167; 1620; 2490; 3027; 3165; 3312
FauNDI	CA!TATG	1	230
FbaI	T!GATCA	0	
FblI	GT!MKAC	2	163; 426
FmuI	GGNC!C	11	179; 180; 349; 592; 923; 1477; 2886; 3331; 3377; 3435; 3468
Fnu4HI	GC!NGC	30	112; 906; 909; 1144; 1663; 1685; 1699; 2137; 2276; 2328; 2339; 2429; 2434; 2471; 2512; 2599; 2605; 2841; 2937; 2978; 2992; 3106; 3445; 3460; 3671; 3877; 3880; 3945; 4088; 4243
FokI	GGATGNNNNNNNNNN!	5	629; 2234; 2691; 2716; 3170
FokI	!NNNNNNNNNNNNNCATCC	1	2040
FriOI	GRGCY!C	5	143; 180; 1558; 2732; 3442
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	2469
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	115; 917; 1022; 1216; 1634; 2190; 3205; 3539; 3792
FspEI	CCNNNNNNNNNNNN!	125	24; 58; 102; 137; 185; 200; 277; 314; 362; 427; 443; 467; 605; 658; 761; 782; 887; 922; 936; 1050; 1089; 1103; 1244; 1339; 1363; 1386; 1409; 1427; 1449; 1470; 1489; 1508; 1537; 1558; 1572; 1598; 1686; 1712; 1761; 1802; 1820; 1859; 1875; 1913; 1970; 1985; 2042; 2062; 2076; 2093; 2107; 2144; 2159; 2202; 2285; 2352; 2383; 2403; 2418; 2463; 2477; 2543; 2557; 2576; 2592; 2633; 2653; 2700; 2750; 2766; 2786; 2811; 2831; 2854; 2881; 2899; 2925; 2965; 2991; 3015; 3071; 3085; 3113; 3156; 3177; 3212; 3256; 3344; 3368; 3390; 3410; 3426; 3447; 3461; 3480; 3564; 3584; 3612; 3627; 3661; 3703; 3730; 3745; 3790; 3814; 3828; 3850; 3876; 3896; 3920; 3946; 3994; 4013; 4032; 4058; 4093; 4138; 4168; 4182; 4233; 4247; 4272; 4288; 4309; 4338
FspEI	!NNNNNNNNNNNNNNNGG	113	93; 151; 175; 229; 271; 293; 325; 358; 377; 407; 443; 479; 502; 521; 551; 572; 598; 638; 664; 683; 755; 793; 869; 890; 928; 972; 1038; 1138; 1207; 1237; 1315; 1364; 1386; 1414; 1450; 1495; 1524; 1560; 1579; 1607; 1627; 1690; 1713; 1821; 1853; 1871; 1900; 1943; 1972; 2083; 2112; 2155; 2176; 2204; 2237; 2257; 2282; 2309; 2334; 2356; 2384; 2410; 2431; 2482; 2503; 2521; 2569; 2605; 2661; 2686; 2710; 2739; 2762; 2786; 2812; 2834; 2853; 2878; 2918; 2954; 3019; 3104; 3128; 3157; 3191; 3212; 3232; 3277; 3304; 3323; 3356; 3408; 3439; 3466; 3518; 3616; 3687; 3732; 3793; 3858; 3892; 3918; 3936; 3972; 4042; 4065; 4087; 4111; 4144; 4192; 4227; 4245; 4302
Fsp4HI	GC!NGC	30	112; 906; 909; 1144; 1663; 1685; 1699; 2137; 2276; 2328; 2339; 2429; 2434; 2471; 2512; 2599; 2605; 2841; 2937; 2978; 2992; 3106; 3445; 3460; 3671; 3877; 3880; 3945; 4088; 4243
GdiII	C!GGCCR	2	906; 2273
GdiII	Y!GGCCG	4	906; 2273; 2838; 2865

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GlaI	GC!GC	21	119; 1632; 1640; 1666; 1688; 1697; 1710; 1741; 2360; 2368; 2432; 2469; 2735; 2995; 3171; 3257; 3660; 3769; 3943; 4043; 4110
GluI	GC!NGC	30	112; 906; 909; 1144; 1663; 1685; 1699; 2137; 2276; 2328; 2339; 2429; 2434; 2471; 2512; 2599; 2605; 2841; 2937; 2978; 2992; 3106; 3445; 3460; 3671; 3877; 3880; 3945; 4088; 4243
GsaI	CCCAG!C	4	927; 1914; 1986; 3985
GsaI	GCTGG!G	1	2875
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	1	3207
GsuI	!NNNNNNNNNNNNNNCTCCAG	1	3150
HaeI	WGG!CCW	5	2188; 2449; 3811; 4263; 4274
HaeII	RGCGC!Y	5	121; 1634; 1642; 2370; 4045
HaeIII	GG!CC	19	178; 908; 1333; 1475; 2130; 2136; 2145; 2188; 2275; 2449; 2840; 2867; 3376; 3433; 3466; 3811; 4245; 4263; 4274
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	750; 2563
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	716; 2529
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	749; 2562
HaeIV	!NNNNNNNGAYNNNNNNRTC	2	718; 2531
HapII	C!CGG	19	124; 180; 190; 1585; 2272; 2349; 2371; 2399; 2530; 2620; 2687; 2868; 3143; 3151; 3243; 3717; 3907; 3933; 4080
HgaI	GACGCNNNNN!	2	3077; 3156
HgaI	!NNNNNNNNNNGCGTC	3	1700; 3595; 4173
HhaI	GCG!C	21	120; 1633; 1641; 1667; 1689; 1698; 1711; 1742; 2361; 2369; 2433; 2470; 2736; 2996; 3172; 3258; 3661; 3770; 3944; 4044; 4111
HinI	GR!CGYC	3	2367; 3069; 3148
Hin1II	CATG!	17	204; 470; 681; 844; 1797; 1937; 2009; 2100; 2241; 2586; 2772; 2803; 2829; 3185; 3569; 4289; 4340
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	530; 749; 2562
Hin4I	!NNNNNNNNGABNNNNNNRTC	3	717; 2530; 2560
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	749; 2562; 2592
Hin4I	!NNNNNNNNGAYNNNNNVTC	3	498; 717; 2530
Hin6I	G!CGC	21	118; 1631; 1639; 1665; 1687; 1696; 1709; 1740; 2359; 2367; 2431; 2468; 2734; 2994; 3170; 3256; 3659; 3768; 3942; 4042; 4109
HinP1I	G!CGC	21	118; 1631; 1639; 1665; 1687; 1696; 1709; 1740; 2359; 2367; 2431; 2468; 2734; 2994; 3170; 3256; 3659; 3768; 3942; 4042; 4109
HincII	GTY!RAC	2	164; 1130
HindII	GTY!RAC	2	164; 1130
HindIII	A!AGCTT	1	145
HinfI	G!ANTC	14	127; 461; 561; 913; 1410; 1432; 1842; 2852; 2986; 3038; 3096; 3133; 3915; 4311
HpaI	GTT!AAC	1	1130
HpaII	C!CGG	19	124; 180; 190; 1585; 2272; 2349; 2371; 2399; 2530; 2620; 2687; 2868; 3143; 3151; 3243; 3717; 3907; 3933; 4080
HphI	GGTGANNNNNNNN!	2	3438; 3554
HphI	!NNNNNNNTCACC	2	1484; 2545
Hpy8I	GTN!NAC	10	164; 427; 573; 703; 777; 1130; 1414; 1431; 1486; 3973
Hpy99I	CGWCG!	8	168; 2457; 2485; 2779; 2794; 3071; 3456; 4189
Hpy166II	GTN!NAC	10	164; 427; 573; 703; 777; 1130; 1414; 1431; 1486; 3973
Hpy188I	TCN!GA	13	132; 207; 285; 1541; 2150; 2334; 2678; 3031; 3132; 3611; 3745; 4098; 4176
Hpy188III	TC!NNGA	22	136; 454; 517; 1794; 1846; 2159; 2212; 2385; 2701; 2710; 2793; 2849; 2893; 2983; 3016; 3085; 3566; 3640; 3723; 3821; 3919; 4053
HpyAV	CCTCNNNNNN!	4	884; 3012; 3119; 3798
HpyAV	!NNNNNGAAGG	12	241; 286; 301; 451; 658; 1600; 2495; 3224; 3240; 3423; 3740; 4050
HpyCH4III	ACN!GT	12	168; 255; 496; 538; 1458; 2747; 2863; 2971; 3294; 3785; 4255; 4326
HpyCH4IV	A!CGT	10	830; 858; 1427; 1439; 1482; 1592; 2483; 2670; 3451; 3584
HpyCH4V	TG!CA	22	55; 159; 228; 600; 856; 979; 1116; 1143; 1211; 1928; 1937; 2000; 2009; 2124; 2200; 2259; 2418; 2593; 2607; 3677; 3973; 4340
HpyF3I	C!TNAG	13	129; 284; 398; 515; 632; 740; 878; 1847; 2149; 3030; 3479; 3602; 4011

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HpyF10VI	GCNNNNN!NNGC	20	117; 1594; 1624; 1651; 1693; 1934; 2006; 2057; 2136; 2358; 2442; 2465; 2604; 2727; 2810; 3077; 3264; 3468; 3667; 4239
Hsp92I	GR!CGYC	3	2367; 3069; 3148
Hsp92II	CATG!	17	204; 470; 681; 844; 1797; 1937; 2009; 2100; 2241; 2586; 2772; 2803; 2829; 3185; 3569; 4289; 4340
HspAI	G!CGC	21	118; 1631; 1639; 1665; 1687; 1696; 1709; 1740; 2359; 2367; 2431; 2468; 2734; 2994; 3170; 3256; 3659; 3768; 3942; 4042; 4109
KasI	G!GCGCC	1	2366
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	172
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	175
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	1130
Kzo9I	!GATC	20	132; 183; 394; 1024; 2204; 2208; 2227; 2538; 2616; 2697; 2706; 2784; 3160; 3176; 3535; 3547; 3625; 3633; 3644; 3719
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	2711; 2921
LpnI	RGC!GCGY	5	119; 1632; 1640; 2368; 4043
LpnPI	CCDGNNNNNNNNN!	54	58; 137; 193; 443; 467; 605; 659; 761; 782; 937; 1104; 1409; 1598; 1821; 1859; 1875; 1915; 1970; 1987; 2087; 2172; 2285; 2362; 2384; 2407; 2543; 2557; 2576; 2633; 2700; 2750; 2766; 2823; 2881; 3090; 3156; 3180; 3256; 3345; 3448; 3481; 3712; 3730; 3876; 3896; 3920; 3946; 3995; 4093; 4138; 4168; 4247; 4272; 4309
LpnPI	!NNNNNNNNNNNNNNCHGG	46	93; 165; 502; 755; 972; 1450; 1570; 1627; 1690; 1888; 1900; 1960; 1972; 2204; 2249; 2292; 2334; 2356; 2384; 2431; 2493; 2515; 2605; 2672; 2695; 2739; 2834; 2853; 2878; 3027; 3128; 3171; 3228; 3318; 3421; 3448; 3466; 3702; 3739; 3892; 3918; 4058; 4076; 4111; 4192; 4245
Lsp1109I	GCAGCNNNNNNNN!	6	1155; 2440; 2482; 3003; 3456; 3956
Lsp1109I	!NNNNNNNNNNNGCTGC	7	98; 1649; 2314; 2498; 2591; 3657; 3863
LweI	GCATCNNNNN!	6	1183; 1946; 2018; 2666; 2730; 3005
LweI	!NNNNNNNNNGATGC	4	2325; 2580; 2796; 4188
MabI	A!CCWGGT	1	1956
MaeI	C!TAG	9	115; 917; 1022; 1216; 1634; 2190; 3205; 3539; 3792
MaeII	A!CGT	10	830; 858; 1427; 1439; 1482; 1592; 2483; 2670; 3451; 3584
MaeIII	!GTNAC	14	40; 477; 670; 865; 989; 1155; 1656; 1668; 2487; 2793; 3483; 3749; 3865; 3928
MalI	GA!TC	20	134; 185; 396; 1026; 2206; 2210; 2229; 2540; 2618; 2699; 2708; 2786; 3162; 3178; 3537; 3549; 3627; 3635; 3646; 3721
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	0	
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	0	
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	1791; 2980
MbiI	GAG!CGG	2	1627; 3034
MboI	!GATC	20	132; 183; 394; 1024; 2204; 2208; 2227; 2538; 2616; 2697; 2706; 2784; 3160; 3176; 3535; 3547; 3625; 3633; 3644; 3719
MboII	GAAGANNNNNNNN!	7	502; 615; 1623; 1851; 2728; 2938; 3557
MboII	!NNNNNNNTCTTC	4	3018; 3185; 3385; 3628
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	1117
MfII	R!GATCY	10	132; 183; 394; 2538; 2784; 3176; 3535; 3547; 3633; 3644
MhII	GDGCH!C	10	143; 180; 1558; 2313; 2406; 2480; 2670; 2732; 3442; 3975
MIsI	TGG!CCA	1	2449
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	2449
MlyI	GAGTCNNNNN!	2	1419; 1851
MlyI	!NNNNNGACTC	5	121; 907; 1426; 3032; 3909
Mly113I	GG!CGCC	1	2367
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	1460
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	3892; 4076
MnII	CCTCNNNNNNN!	7	1086; 2150; 2968; 3174; 3488; 3858; 4182
MnII	!NNNNNGAGG	16	279; 333; 615; 691; 1046; 1511; 1842; 2120; 2163; 2178; 2218; 2282; 2418; 2775; 3205; 4108
Mph1103I	ATGCA!T	4	230; 1939; 2011; 4342

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	1584; 2867; 3150
MroXI	GAANN!NN TTC	0	
MscI	TGG!CCA	1	2449
MseI	T!TAA	22	215; 272; 329; 410; 440; 557; 722; 806; 1068; 1129; 1250; 1271; 1282; 1294; 1305; 1322; 1420; 1691; 3510; 3524; 3529; 3581
MslI	CAYNN!NNRTG	2	615; 2804
MspI	C!CGG	19	124; 180; 190; 1585; 2272; 2349; 2371; 2399; 2530; 2620; 2687; 2868; 3143; 3151; 3243; 3717; 3907; 3933; 4080
Msp20I	TGG!CCA	1	2449
MspAII	CMG!CKG	5	174; 1865; 2473; 3702; 3947
MspCI	C!TTAAG	1	1249
MspJI	CNNRNNNNNNNNN!	214	24; 47; 71; 101; 120; 136; 150; 163; 185; 202; 218; 241; 296; 314; 328; 381; 399; 427; 442; 466; 479; 497; 527; 544; 577; 596; 613; 644; 658; 682; 716; 743; 760; 781; 827; 853; 869; 882; 901; 922; 935; 950; 977; 995; 1014; 1034; 1050; 1074; 1091; 1104; 1145; 1159; 1172; 1190; 1228; 1243; 1261; 1302; 1326; 1346; 1364; 1385; 1408; 1440; 1455; 1477; 1495; 1508; 1529; 1546; 1559; 1572; 1588; 1601; 1631; 1646; 1671; 1689; 1702; 1717; 1741; 1755; 1779; 1804; 1820; 1858; 1874; 1913; 1927; 1941; 1969; 1985; 1999; 2013; 2042; 2055; 2076; 2085; 2107; 2137; 2153; 2171; 2201; 2224; 2248; 2272; 2291; 2319; 2345; 2361; 2374; 2397; 2411; 2431; 2444; 2458; 2477; 2491; 2504; 2520; 2535; 2548; 2564; 2579; 2595; 2620; 2639; 2655; 2668; 2681; 2699; 2713; 2727; 2743; 2765; 2781; 2800; 2822; 2838; 2861; 2880; 2894; 2910; 2924; 2944; 2960; 2973; 2995; 3028; 3042; 3062; 3075; 3089; 3143; 3156; 3179; 3192; 3211; 3228; 3255; 3291; 3324; 3343; 3368; 3389; 3416; 3429; 3446; 3460; 3475; 3491; 3551; 3576; 3592; 3614; 3627; 3641; 3672; 3686; 3711; 3729; 3744; 3757; 3776; 3789; 3804; 3833; 3852; 3870; 3895; 3910; 3929; 3945; 3964; 3982; 3998; 4012; 4031; 4058; 4081; 4103; 4122; 4137; 4150; 4167; 4187; 4214; 4227; 4246; 4271; 4294; 4308; 4321; 4338
MspJI	!NNNNNNNNNNNNNYNG	181	16; 35; 53; 80; 101; 122; 142; 159; 176; 211; 229; 269; 290; 309; 344; 377; 407; 440; 473; 490; 518; 544; 578; 599; 619; 647; 664; 681; 709; 727; 745; 767; 793; 815; 843; 865; 896; 918; 938; 959; 983; 1004; 1033; 1077; 1119; 1202; 1237; 1264; 1287; 1316; 1360; 1382; 1414; 1450; 1467; 1488; 1525; 1545; 1562; 1579; 1614; 1632; 1650; 1667; 1691; 1713; 1740; 1768; 1794; 1832; 1853; 1870; 1888; 1911; 1932; 1960; 1983; 2004; 2022; 2043; 2060; 2083; 2107; 2127; 2145; 2167; 2198; 2220; 2246; 2265; 2282; 2310; 2329; 2348; 2366; 2384; 2405; 2427; 2451; 2484; 2504; 2522; 2543; 2569; 2596; 2613; 2630; 2647; 2673; 2695; 2717; 2735; 2755; 2774; 2796; 2834; 2854; 2878; 2898; 2918; 2945; 2969; 3002; 3021; 3049; 3071; 3100; 3128; 3153; 3172; 3191; 3212; 3229; 3246; 3277; 3304; 3324; 3347; 3367; 3404; 3421; 3440; 3466; 3486; 3525; 3552; 3571; 3589; 3626; 3644; 3685; 3703; 3729; 3746; 3778; 3807; 3835; 3856; 3879; 3898; 3919; 3937; 3954; 3972; 3998; 4019; 4039; 4059; 4077; 4098; 4124; 4141; 4160; 4179; 4208; 4227; 4245; 4264; 4282; 4300; 4323
MspR9I	CC!NGG	16	180; 181; 770; 1903; 1958; 1975; 2371; 2531; 2754; 3144; 3333; 3436; 3908; 4126; 4139; 4260
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	1117
MvaI	CC!WGG	10	770; 1903; 1958; 1975; 2754; 3333; 3436; 4126; 4139; 4260
Mva1269I	GAATGCN!	1	1118
Mva1269I	G!CATTC	2	625; 1211
MvnI	CG!CG	15	174; 911; 1291; 1667; 1687; 1711; 1742; 2433; 2734; 3172; 3256; 3319; 3388; 3661; 4242
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	20	117; 1594; 1624; 1651; 1693; 1934; 2006; 2057; 2136; 2358; 2442; 2465; 2604; 2727; 2810; 3077; 3264; 3468; 3667; 4239
NaeI	GCC!GGC	3	1586; 2869; 3152
NarI	GG!CGCC	1	2367
NciI	CC!SGG	6	180; 181; 2371; 2531; 3144; 3908
NcoI	C!CATGG	2	2096; 2799
NdeI	CA!TATG	1	230

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeII	!GATC	20	132; 183; 394; 1024; 2204; 2208; 2227; 2538; 2616; 2697; 2706; 2784; 3160; 3176; 3535; 3547; 3625; 3633; 3644; 3719
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	0	
NgoMIV	G!CCGGC	3	1584; 2867; 3150
NheI	G!CTAGC	1	114
NlaII	CATG!	17	204; 470; 681; 844; 1797; 1937; 2009; 2100; 2241; 2586; 2772; 2803; 2829; 3185; 3569; 4289; 4340
NlaIV	GGN!NCC	17	170; 178; 185; 922; 1522; 1543; 1555; 1746; 1907; 1979; 2368; 2403; 3251; 3330; 3375; 4218; 4257
NlaCI	CATCACNNNNNNNNNNNNNNNN!	3	1199; 1514; 3106
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	1	4178
Nii3877I	CYCGR!G	2	140; 183
NmeAIII	GCCGAGNNNNNNNNNNNNNNNN!	2	2156; 2592
NmeAIII	!NNNNNNNNNNNNNNNNNCTCGGC	1	2121
NmeDI	RCCGGYNNNNNN!	5	201; 1596; 2698; 2879; 3162
NmeDI	!NNNNNNNNNNNNRCCGGY	5	176; 1571; 2673; 2854; 3137
NmuCI	!GTSAC	6	40; 865; 989; 1656; 2487; 2793
NotI	GC!GGCCGC	1	906
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	2469
NsiI	ATGCA!T	4	230; 1939; 2011; 4342
NspI	RCATG!Y	4	1937; 2009; 2772; 4289
NspV	TT!CGAA	2	150; 3049
OliI	CACNN!NNGTG	0	
PabI	GTA!C	7	99; 171; 253; 280; 313; 937; 2674
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	1937; 2009; 2772
PaeR7I	C!TCGAG	1	136
PagI	T!CATGA	2	1793; 3565
PaIAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	3332; 3435
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	2188
PciI	A!CATGT	1	4285
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	2711; 2921
PcsI	WCGNNNN!NNNCGW	7	827; 2661; 2738; 2981; 3055; 3448; 3966
PctI	GAATGCN!	1	1118
PctI	G!CATTC	2	625; 1211
PdiI	GCC!GGC	3	1586; 2869; 3152
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	461; 561; 2852; 2986; 3096; 3133; 4311
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	2485
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	1	3142
PhoI	GG!CC	19	178; 908; 1333; 1475; 2130; 2136; 2145; 2188; 2275; 2449; 2840; 2867; 3376; 3433; 3466; 3811; 4245; 4263; 4274
PinAI	A!CCGGT	1	189
PlaDI	CATCAGNNNNNNNNNNNNNNNN!	1	2748
PlaDI	!NNNNNNNNNNNNNNNNNCTGATG	3	630; 2313; 2568
PleI	GAGTCNNNN!	2	1418; 1850
PleI	!NNNNNGACTC	5	121; 907; 1426; 3032; 3909
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNN!	1	1449
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	3579
PpiI	GAGNNNNNGTTCNNNNNNNNNN!	1	3611
PpiI	!NNNNNNNGAACNNNNNCTC	1	1417
Ppsi	GAGTCNNNN!	2	1418; 1850

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpsI	!NNNNNGACTC	5	121; 907; 1426; 3032; 3909
Ppu10I	A!TGCAT	4	226; 1935; 2007; 4338
Ppu21I	YAC!GTR	2	1483; 2671
PpuMI	RG!GWCCY	2	346; 920
PscI	A!CATGT	1	4285
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	0	
PsiI	TTA!TAA	5	83; 551; 951; 1150; 1355
Psp03I	GGWC!C	5	349; 592; 923; 2886; 3331
Psp5II	RG!GWCCY	2	346; 920
Psp6I	!CCWGG	10	768; 1901; 1956; 1973; 2752; 3331; 3434; 4124; 4137; 4258
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	143
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	10	768; 1901; 1956; 1973; 2752; 3331; 3434; 4124; 4137; 4258
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	17	170; 178; 185; 922; 1522; 1543; 1555; 1746; 1907; 1979; 2368; 2403; 3251; 3330; 3375; 4218; 4257
PspOMI	G!GGCCC	1	176
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNNNN!	2	2097; 3096
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	2499
PspPI	G!GNCC	11	176; 177; 346; 589; 920; 1474; 2883; 3328; 3374; 3432; 3465
PspPPI	RG!GWCCY	2	346; 920
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	1920; 1992; 3498
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	3	270; 1833; 3028
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	3	349; 923; 3468
PstI	CTGCA!G	1	161
PstNI	CAGNNN!CTG	2	3468; 3876
PsuI	R!GATCY	10	132; 183; 394; 2538; 2784; 3176; 3535; 3547; 3633; 3644
PsyI	GACN!NNGTC	1	2485
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	1865; 2473
RcaI	T!CATGA	2	1793; 3565
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	2882
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	1096
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	7	98; 170; 252; 279; 312; 936; 2673
RsaNI	G!TAC	7	97; 169; 251; 278; 311; 935; 2672
RseI	CAYNN!NNRTG	2	615; 2804
RsrII	CG!GWCCG	1	2883
Rsr2I	CG!GWCCG	1	2883
SacI	GAGCT!C	1	143
SacII	CCGC!GG	1	175
SalI	G!TCGAC	1	162
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	2711; 2921
SaqAI	T!TAA	22	215; 272; 329; 410; 440; 557; 722; 806; 1068; 1129; 1250; 1271; 1282; 1294; 1305; 1322; 1420; 1691; 3510; 3524; 3529; 3581

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SatI	GC!NGC	30	112; 906; 909; 1144; 1663; 1685; 1699; 2137; 2276; 2328; 2339; 2429; 2434; 2471; 2512; 2599; 2605; 2841; 2937; 2978; 2992; 3106; 3445; 3460; 3671; 3877; 3880; 3945; 4088; 4243
Sau96I	G!GNCC	11	176; 177; 346; 589; 920; 1474; 2883; 3328; 3374; 3432; 3465
Sau3AI	!GATC	20	132; 183; 394; 1024; 2204; 2208; 2227; 2538; 2616; 2697; 2706; 2784; 3160; 3176; 3535; 3547; 3625; 3633; 3644; 3719
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	2	1419; 1851
SchI	!NNNNNGACTC	5	121; 907; 1426; 3032; 3909
SciI	CTC!GAG	1	138
ScrFI	CC!NGG	16	180; 181; 770; 1903; 1958; 1975; 2371; 2531; 2754; 3144; 3333; 3436; 3908; 4126; 4139; 4260
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	5	627; 1945; 2017; 2186; 4128
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	2522; 3007
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	0	
SduI	GDGCH!C	10	143; 180; 1558; 2313; 2406; 2480; 2670; 2732; 3442; 3975
SelI	!CGCG	15	172; 909; 1289; 1665; 1685; 1709; 1740; 2431; 2732; 3170; 3254; 3317; 3386; 3659; 4240
SetI	ASST!	57	47; 143; 149; 252; 297; 312; 348; 426; 669; 702; 717; 753; 833; 852; 861; 929; 991; 1057; 1078; 1087; 1099; 1148; 1315; 1430; 1442; 1485; 1522; 1572; 1595; 1719; 1867; 1962; 2155; 2268; 2396; 2475; 2486; 2558; 2629; 2673; 2933; 3079; 3123; 3454; 3485; 3544; 3587; 3730; 3751; 3850; 3987; 4002; 4021; 4033; 4077; 4123; 4174
SexAI	A!CCWGGT	1	1956
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	6	1183; 1946; 2018; 2666; 2730; 3005
SfaNI	!NNNNNNNNNGATGC	4	2325; 2580; 2796; 4188
SfiI	C!TRYAG	4	157; 1702; 3829; 4020
SfiI	GGCCNNNN!NGGCC	1	2142
SfoI	GGC!GCC	1	2368
Sfr274I	C!TCGAG	1	136
Sfr303I	CCGC!GG	1	175
SfuI	TT!CGAA	2	150; 3049
SgeI	CNNGNNNNNNNNN!	159	6; 57; 120; 136; 150; 185; 202; 433; 466; 479; 529; 544; 577; 604; 658; 690; 720; 760; 781; 853; 869; 882; 922; 936; 999; 1034; 1074; 1103; 1145; 1228; 1302; 1386; 1408; 1440; 1477; 1495; 1514; 1529; 1571; 1588; 1605; 1640; 1654; 1671; 1693; 1717; 1741; 1806; 1820; 1858; 1874; 1914; 1927; 1946; 1969; 1986; 1999; 2018; 2048; 2069; 2086; 2109; 2144; 2171; 2202; 2224; 2250; 2272; 2291; 2319; 2355; 2374; 2397; 2411; 2431; 2444; 2458; 2477; 2491; 2510; 2542; 2556; 2569; 2595; 2626; 2639; 2656; 2673; 2687; 2704; 2722; 2737; 2765; 2781; 2800; 2822; 2838; 2861; 2880; 2905; 2924; 2944; 2971; 2995; 3028; 3047; 3075; 3089; 3155; 3179; 3194; 3217; 3238; 3255; 3303; 3330; 3344; 3373; 3397; 3430; 3447; 3467; 3480; 3493; 3551; 3578; 3597; 3627; 3652; 3672; 3686; 3711; 3729; 3766; 3804; 3833; 3861; 3875; 3895; 3910; 3931; 3945; 3964; 3982; 3998; 4038; 4058; 4085; 4103; 4124; 4137; 4150; 4167; 4191; 4214; 4246; 4271; 4298; 4320
SgeI	!NNNNNNNNNNNNNCNNG	138	31; 94; 122; 159; 176; 407; 440; 503; 551; 578; 632; 664; 694; 734; 755; 827; 856; 896; 918; 973; 1008; 1048; 1077; 1119; 1202; 1276; 1360; 1382; 1414; 1451; 1469; 1488; 1545; 1562; 1579; 1614; 1632; 1652; 1672; 1691; 1715; 1780; 1832; 1888; 1920; 1943; 1960; 1992; 2022; 2043; 2060; 2083; 2118; 2145; 2176; 2198; 2224; 2246; 2265; 2293; 2329; 2348; 2371; 2392; 2410; 2427; 2451; 2484; 2516; 2543; 2569; 2600; 2630; 2647; 2673; 2696; 2717; 2739; 2759; 2779; 2796; 2835; 2854; 2879; 2898; 2918; 2945; 2969; 3002; 3021; 3049; 3071; 3129; 3153; 3172; 3191; 3212; 3229; 3277; 3304; 3324; 3347; 3371; 3404; 3421; 3441; 3467; 3525; 3552; 3571; 3601; 3626; 3646; 3685; 3703; 3740; 3778; 3807; 3835; 3856; 3884; 3905; 3938; 3956; 4012; 4032; 4059; 4077; 4098; 4124; 4141; 4165; 4188; 4220; 4245; 4272; 4294; 4323

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	175
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	3	1514; 3301; 4094
SimI	!GACCC	4	920; 2795; 3363; 3611
SinI	G!GWCC	5	346; 589; 920; 2883; 3328
SlaI	C!TCGAG	1	136
SmaI	CCC!GGG	1	181
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	2	615; 2804
SmlI	C!TYRAG	8	136; 142; 419; 1249; 2758; 3640; 3917; 4179
SmoI	C!TYRAG	8	136; 142; 419; 1249; 2758; 3640; 3917; 4179
SmuI	CCCGNNTNN!	5	1689; 2044; 2065; 3261; 3393
SmuI	!NNNNNNCGGG	6	167; 1620; 2490; 3027; 3165; 3312
SnaBI	TAC!GTA	0	
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	1937; 2009; 2772
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	16	60; 152; 208; 688; 803; 892; 970; 1117; 1181; 1259; 1285; 1296; 1943; 2015; 2107; 3525
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCC	1	346
SseBI	AGG!CCT	1	2188
SsiI	C!CGC	26	172; 909; 1682; 1685; 1699; 1789; 2037; 2049; 2058; 2070; 2080; 2091; 2137; 2276; 2339; 2841; 2886; 2952; 2978; 3103; 3106; 3254; 3386; 3693; 3837; 4333
SsiI	G!CGG	22	174; 905; 1627; 1654; 1742; 1852; 2433; 2497; 2598; 2601; 2881; 2936; 3034; 3172; 3319; 3459; 3702; 3947; 4068; 4087; 4214; 4242
SspI	AAT!ATT	3	720; 1275; 1828
SspDI	G!GCGCC	1	2366
SspD5I	GGTGANNNTNNNN!	2	3438; 3554
SspD5I	!NNNNNNNTCACC	2	1483; 2544
SstI	GAGCT!C	1	143
SstII	CCGC!GG	1	175
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	13	186; 1566; 1688; 2043; 2064; 2377; 2780; 2919; 2990; 3260; 3392; 3622; 4060
Sth132I	!NNNNNNNNCGGG	16	166; 1567; 1619; 1720; 2447; 2489; 2522; 3026; 3135; 3164; 3311; 3415; 3446; 3899; 3943; 4151
Sth302II	CC!GG	19	125; 181; 191; 1586; 2273; 2350; 2372; 2400; 2531; 2621; 2688; 2869; 3144; 3152; 3244; 3718; 3908; 3934; 4081
StrI	C!TCGAG	1	136
StsI	GGATGNNNNNNNNNN!	5	630; 2235; 2692; 2717; 3171
StsI	!NNNNNNNNNNNNNNCATCC	1	2039
StuI	AGG!CCT	1	2188
StyI	C!CWWGG	4	2096; 2189; 2799; 3204
StyD4I	!CCNGG	16	178; 179; 768; 1901; 1956; 1973; 2369; 2529; 2752; 3142; 3331; 3434; 3906; 4124; 4137; 4258
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	12	168; 255; 496; 538; 1458; 2747; 2863; 2971; 3294; 3785; 4255; 4326
TaiI	ACGT!	10	833; 861; 1430; 1442; 1485; 1595; 2486; 2673; 3454; 3587
TaqI	T!CGA	14	137; 150; 163; 1516; 2207; 2480; 2636; 2660; 2696; 2858; 3049; 3094; 3349; 4187
TaqII	GACCGANNNTNNNNNN!	3	1387; 2404; 3072
TaqII	!NNNNNNNTCGGTC	1	3316
TaqII	CACCCANNNTNNNNNN!	0	
TaqII	!NNNNNNNTGGGTG	2	2271; 2863
TasI	!AATT	16	60; 152; 208; 688; 803; 892; 970; 1117; 1181; 1259; 1285; 1296; 1943; 2015; 2107; 3525
TatI	W!GTACW	3	96; 277; 934

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TauI	GCSG!C	17	908; 911; 1687; 1701; 2139; 2278; 2341; 2436; 2601; 2604; 2843; 2939; 2980; 3108; 3462; 4090; 4245
TfiI	G!AWTC	7	461; 561; 2852; 2986; 3096; 3133; 4311
TliI	C!TCGAG	1	136
TruII	T!TAA	22	215; 272; 329; 410; 440; 557; 722; 806; 1068; 1129; 1250; 1271; 1282; 1294; 1305; 1322; 1420; 1691; 3510; 3524; 3529; 3581
Tru9I	T!TAA	22	215; 272; 329; 410; 440; 557; 722; 806; 1068; 1129; 1250; 1271; 1282; 1294; 1305; 1322; 1420; 1691; 3510; 3524; 3529; 3581
TscAI	CASTGNN!	6	636; 1213; 2496; 3606; 3877; 3890
TseI	G!CWGC	14	111; 1143; 1662; 2327; 2428; 2470; 2511; 2604; 2991; 3444; 3670; 3876; 3879; 3944
TsoI	TARCCANNNNNNNNNN!	4	277; 427; 1339; 1686
TsoI	!NNNNNNNNNTGGYTA	2	1144; 2896
Tsp45I	!GTSAC	6	40; 865; 989; 1656; 2487; 2793
Tsp509I	!AATT	16	60; 152; 208; 688; 803; 892; 970; 1117; 1181; 1259; 1285; 1296; 1943; 2015; 2107; 3525
TspDTI	ATGAANNNNNNNNNN!	6	247; 503; 857; 1125; 2426; 3130
TspDTI	!NNNNNNNNNTTCAT	4	371; 2844; 3300; 3507
TspEI	!AATT	16	60; 152; 208; 688; 803; 892; 970; 1117; 1181; 1259; 1285; 1296; 1943; 2015; 2107; 3525
TspGWI	ACGGANNNNNNNNNN!	1	3242
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	179
TspRI	CASTGNN!	6	636; 1213; 2496; 3606; 3877; 3890
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	2485
Tth111II	CAARCANNNNNNNNNN!	2	332; 3694
Tth111III	!NNNNNNNNNTGYTTG	4	531; 2802; 3662; 3701
UnbI	!GGNCC	11	175; 176; 345; 588; 919; 1473; 2882; 3327; 3373; 3431; 3464
Van9II	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	1	1249
VneI	G!TGCAC	1	3971
VpaK11AI	!GGWCC	5	345; 588; 919; 2882; 3327
VpaK11BI	G!GWCC	5	346; 589; 920; 2883; 3328
VspI	AT!TAAT	0	
XagI	CCTNN!NNNAGG	1	305
XapI	R!AATY	4	152; 1181; 1285; 1296
XbaI	T!CTAGA	0	
XceI	RCATG!Y	4	1937; 2009; 2772; 4289
XcmI	CCANNNN!NNNTGG	0	
XhoI	C!TCGAG	1	136
XhoII	R!GATCY	10	132; 183; 394; 2538; 2784; 3176; 3535; 3547; 3633; 3644
XmaI	C!CCGGG	1	179
XmaJI	C!CTAGG	2	2189; 3204
XmiI	GT!MKAC	2	163; 426
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	9	115; 917; 1022; 1216; 1634; 2190; 3205; 3539; 3792
ZraI	GAC!GTC	0	
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	4	230; 1939; 2011; 4342