

pCase12-mito vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2094; 2299
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	4	1908; 2382; 3338; 5127
AatI	AGG!CCT	1	3132
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	0	
AccII	CG!CG	20	60; 662; 664; 976; 1396; 1505; 1960; 2235; 2611; 2631; 2655; 2686; 3377; 3678; 4116; 4200; 4263; 4332; 4605; 5186
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	3413
Acc36I	ACCTGCNNNN!	2	3579; 4029
Acc36I	!NNNNNNNNGCAGGT	1	3198
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	8	465; 1065; 1103; 1578; 1686; 2464; 3310; 3345
AccB7I	CCANNNN!NTGG	1	680
AccBSI	CCG!CTC	2	2735; 3924
AccBSI	GAG!CGG	2	2571; 3978
AceIII	CAGCTCNNNNNNN!	2	873; 2267
AceIII	!NNNNNNNNNNGAGCTG	5	552; 1023; 1074; 1107; 1428
AciI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 612; 660; 833; 1006; 1009; 1286; 1327; 1394; 1433; 1958; 2626; 2629; 2643; 2733; 2981; 2993; 3002; 3014; 3024; 3035; 3081; 3220; 3283; 3785; 3830; 3896; 3922; 4047; 4050; 4198; 4330; 4637; 4781; 5277
AciI	G!CGG	28	370; 403; 528; 623; 647; 1054; 1060; 1954; 2571; 2598; 2686; 2796; 3377; 3441; 3542; 3545; 3825; 3880; 3978; 4116; 4263; 4403; 4646; 4891; 5012; 5031; 5158; 5186
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	694; 1023; 3179; 3490; 3736; 4128; 4487; 4585; 4671
AclWI	!NNNNNGATCC	8	580; 665; 681; 824; 3555; 4099; 4486; 4583
AcoI	Y!GGCCR	7	790; 1139; 1955; 3217; 3391; 3782; 3809
AcsI	R!AATY	6	1536; 1704; 1923; 2125; 2229; 2240
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	5	1221; 1293; 1464; 3457; 3889
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4687
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	8	122; 175; 258; 444; 609; 3311; 4013; 4092
AdeI	CACNNN!GTG	1	2427
AfaI	GT!AC	10	219; 244; 299; 332; 383; 540; 1041; 1497; 1930; 3617
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	20	49; 680; 1012; 1237; 1400; 2323; 2649; 3041; 3292; 3836; 4117; 4149; 4281; 4316; 4366; 4398; 4751; 5030; 5196; 5214
AfII	C!TTAAG	1	2193
AfIII	A!CRYGT	2	1503; 5229
AgeI	A!CCGGT	1	692
AgsI	TTS!AA	10	827; 1322; 1370; 1460; 1541; 2722; 2766; 2776; 3189; 4765
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	2	714; 1826
AjiI	GAC!GTG	0	
AjnI	!CCWGG	16	88; 281; 1111; 1236; 1348; 1423; 1477; 2845; 2900; 2917; 3696; 4275; 4378; 5068; 5081; 5202
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AleI	CACNN!NNGTG	3	1098; 1248; 1425
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2885; 2957
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	2	2851; 2923
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	1	2393
AloI	!NNNNNNNNGGANNNNNNNGTTC	0	
AloI	GGANNNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	1	2361
AluI	AG!CT	26	566; 750; 766; 863; 937; 1037; 1088; 1121; 1193; 1205; 1226; 1442; 1490; 1514; 1641; 2090; 2257; 2514; 2809; 3097; 3417; 3875; 4672; 4929; 4975; 5065
AluBI	AG!CT	26	566; 750; 766; 863; 937; 1037; 1088; 1121; 1193; 1205; 1226; 1442; 1490; 1514; 1641; 2090; 2257; 2514; 2809; 3097; 3417; 3875; 4672; 4929; 4975; 5065
AlwI	GGATCNNNN!	9	694; 1023; 3179; 3490; 3736; 4128; 4487; 4585; 4671
AlwI	!NNNNNGATCC	8	580; 665; 681; 824; 3555; 4099; 4486; 4583
Alw21I	GWGCW!C	4	768; 3424; 3614; 4919
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	5	1894; 2735; 3153; 4172; 4300
Alw44I	G!TGCAC	1	4915
AlwNI	CAGNNN!CTG	3	1641; 4412; 4820
Ama87I	C!YCGRG	1	771
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	3	2879; 2951; 4413
ApaLI	G!TGCAC	1	4915
ApeKI	G!CWGC	24	614; 617; 620; 853; 860; 911; 914; 1072; 1226; 1307; 1809; 2087; 2606; 3271; 3372; 3414; 3455; 3548; 3935; 4388; 4614; 4820; 4823; 4888
ApoI	R!AATTY	6	1536; 1704; 1923; 2125; 2229; 2240
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3826
ApyPI	!NNNNNNNNNNNNNNNNNNGTTCGAT	3	3620; 4273; 5111
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3710
AquII	!NNNNNNNNNNNNNNNNNNGTNCGGC	1	1138
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	1108; 3139
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	2	1679; 3881
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNCRAANNNNNNNGTC	1	1330
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	1	1362
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 671; 687; 830; 978; 1016; 1208; 1509; 1658; 1877; 1969; 3149; 3153; 3172; 3483; 3561; 3642; 3651; 3729; 4105; 4121; 4480; 4492; 4570; 4578; 4589; 4664
AsiGI	A!CCGGT	1	692
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3429
Asp700I	GAANN!NNTTC	1	1278
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3133; 4148
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	25	664; 666; 976; 1357; 1398; 2577; 2585; 2611; 2633; 2642; 2655; 2686; 3305; 3313; 3377; 3414; 3680; 3940; 4116; 4202; 4605; 4714; 4888; 4988; 5055
AspS9I	G!GNCC	12	83; 276; 641; 903; 986; 1240; 2418; 3827; 4272; 4318; 4376; 4409
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	3993
AsuC2I	CC!SGG	7	644; 1013; 1097; 3315; 3475; 4088; 4852
AsuHPI	GGTGANNNNNNNN!	5	376; 1415; 1439; 4382; 4498
AsuHPI	!NNNNNNNTCACC	3	1085; 2428; 3489
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	1	771

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AvaII	G!GWCC	3	986; 3827; 4272
AviII	TGC!GCA	1	3413
AvrII	C!CTAGG	2	3133; 4148
AxyI	CC!TNAGG	2	2791; 4423
BaeI	ACNNNNGTAYCNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	6	1108; 1237; 1486; 3257; 3350; 4919
BalI	TGG!CCA	1	3393
BamHI	G!GATCC	1	686
BanI	G!GYRCC	8	465; 1065; 1103; 1578; 1686; 2464; 3310; 3345
BanII	GRGCY!C	4	768; 2502; 3676; 4386
BanIII	AT!CGAT	1	3151
BarI	GAAGNNNNNTACNNNNNNNNNNNN!	1	1944
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	1	1912
BasI	CCANNNN!NTGG	1	680
BauI	C!ACGAG	2	4029; 5056
BauI	C!TCGTG	2	1248; 3903
BbeI	GGCG!C	1	3314
Bbr7I	GAAGACNNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	0	
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	2881; 2953; 3716
BbvI	GCAGCNNNNNNNN!	10	865; 1084; 1319; 1821; 2099; 3384; 3426; 3947; 4400; 4900
BbvI	!NNNNNNNNNNNNNGCTGC	9	601; 898; 1213; 2593; 3258; 3442; 3535; 4601; 4807
Bbv12I	GWGCW!C	4	768; 3424; 3614; 4919
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	8	900; 1116; 1368; 1590; 2441; 3005; 3531; 4033
BccI	!NNNNNGATGG	9	1044; 1563; 1671; 1712; 1782; 1890; 2409; 3189; 3617
BceAI	ACGGCNNNNNNNNNNNN!	10	824; 866; 917; 1142; 1202; 1283; 1394; 1484; 3737; 4224
BceAI	!NNNNNNNNNNNNNGCCGT	3	2452; 3270; 4729
Bcefl	ACGGCNNNNNNNNNNNN!	10	824; 866; 917; 1142; 1202; 1283; 1394; 1484; 3737; 4224
Bcefl	!NNNNNNNNNNNNNGCCGT	3	2453; 3271; 4730
BcgI	CGANNNNNNTGCNNNNNNNNNNNN!	1	1192
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNTGC	1	1158
BciVI	GTATCCNNNNNN!	3	2740; 3530; 5031
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	3	1508; 1657; 1876
BcnI	CC!SGG	7	644; 1013; 1097; 3315; 3475; 4088; 4852
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNNTCANNNNNNNNNNNN!	1	5164
BdaI	!NNNNNNNNNNNTGANNNNNNNTCA	1	5130
BfaI	C!TAG	9	592; 1723; 1966; 2160; 2578; 3134; 4149; 4483; 4736
BfiI	ACTGGGNNNNN!	2	1629; 3260
BfiI	!NNNNCCCAGT	3	289; 648; 3012
BfmI	C!TRYAG	4	751; 2646; 4773; 4964
BfoI	RGCGC!Y	4	2578; 2586; 3314; 4989
BfrI	C!TTAAG	1	2193
BfuI	GTATCCNNNNNN!	3	2740; 3530; 5031
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3579; 4029
BfuAI	!NNNNNNNNNGCAGGT	1	3198
BfuCI	!GATC	27	585; 670; 686; 829; 977; 1015; 1207; 1508; 1657; 1876; 1968; 3148; 3152; 3171; 3482; 3560; 3641; 3650; 3728; 4104; 4120; 4479; 4491; 4569; 4577; 4588; 4663
BglI	GCCNNNN!NGGC	4	90; 212; 283; 3086
BglII	A!GATCT	0	

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BisI	GC!NGC	43	612; 615; 618; 621; 648; 660; 854; 861; 912; 915; 1009; 1073; 1227; 1308; 1810; 1958; 2088; 2607; 2629; 2643; 3081; 3220; 3272; 3283; 3373; 3378; 3415; 3456; 3543; 3549; 3785; 3881; 3922; 3936; 4050; 4389; 4404; 4615; 4821; 4824; 4889; 5032; 5187
BlnI	C!CTAGG	2	3133; 4148
BlpI	GC!TNAGC	1	762
BlsI	GCN!GC	43	613; 616; 619; 622; 649; 661; 855; 862; 913; 916; 1010; 1074; 1228; 1309; 1811; 1959; 2089; 2608; 2630; 2644; 3082; 3221; 3273; 3284; 3374; 3379; 3416; 3457; 3544; 3550; 3786; 3882; 3923; 3937; 4051; 4390; 4405; 4616; 4822; 4825; 4890; 5033; 5188
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	986; 3827; 4272
Bme1390I	CC!NGG	23	90; 283; 644; 1013; 1097; 1113; 1238; 1350; 1425; 1479; 2847; 2902; 2919; 3315; 3475; 3698; 4088; 4277; 4380; 4852; 5070; 5083; 5204
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	1	771
BmgBI	CAC!GTC	2	714; 1826
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	12	84; 277; 642; 904; 987; 1241; 2419; 3828; 4273; 4319; 4377; 4410
BmiI	GGN!NCC	21	467; 651; 688; 905; 1067; 1105; 1580; 1688; 2466; 2487; 2499; 2690; 2851; 2923; 3312; 3347; 4195; 4274; 4319; 5162; 5201
BmrI	ACTGGGNNNNN!	2	1629; 3260
BmrI	!NNNNCCCAGT	3	289; 648; 3012
BmrFI	CC!NGG	23	90; 283; 644; 1013; 1097; 1113; 1238; 1350; 1425; 1479; 2847; 2902; 2919; 3315; 3475; 3698; 4088; 4277; 4380; 4852; 5070; 5083; 5204
BmsI	GCATCNNNNN!	9	820; 1444; 1459; 2127; 2890; 2962; 3610; 3674; 3949
BmsI	!NNNNNNNNNGATGC	7	357; 1166; 1661; 3269; 3524; 3740; 5132
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1629; 3260
BmuI	!NNNNCCCAGT	3	289; 648; 3012
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNCTCNNNNNNNNNNNNN!	2	3100; 3999
BpI	!NNNNNNNNNGAGNNNNNCTC	2	3068; 3967
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	1014; 1512; 4151
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	1	4094
Bpu10I	CC!TNAGC	2	933; 951
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	3993
Bpu1102I	GC!TNAGC	1	762
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4605; 5144
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	2	3687; 4846
BpuMI	CC!SGG	7	644; 1013; 1097; 3315; 3475; 4088; 4852
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	4300
Bsa29I	AT!CGAT	1	3151
BsaAI	YAC!GTR	3	340; 2427; 3615
BsaBI	GATNN!NNATC	2	1973; 3170
BsaHI	GR!CGYC	8	122; 175; 258; 444; 609; 3311; 4013; 4092
BsaJI	C!CNNGG	21	360; 1096; 1236; 1259; 1399; 1423; 1478; 2845; 2917; 3040; 3075; 3084; 3133; 3474; 3743; 4148; 4275; 4276; 4378; 4379; 5069
BsaMI	GAATGCN!	1	2062
BsaMI	G!CATTC	2	1767; 2155
BsaWI	W!CCGGW	5	692; 3342; 4186; 4876; 5023
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2391
BsaXI	!NNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNNN!	0	

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BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2361
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	1	1525
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	2312; 4219
Bsc4I	CCNNNN!NNGG	20	49; 680; 1012; 1237; 1400; 2323; 2649; 3041; 3292; 3836; 4117; 4149; 4281; 4316; 4366; 4398; 4751; 5030; 5196; 5214
BscAI	GCATCNNNN!	9	819; 1443; 1458; 2126; 2889; 2961; 3609; 3673; 3948
BscAI	!NNNNNNGATGC	7	360; 1169; 1664; 3272; 3527; 3743; 5135
BseI	ACTGGN!	4	1624; 3255; 3456; 4702
BseI	C!CAGT	7	295; 654; 941; 2340; 3018; 4814; 4827
Bse8I	GATNN!NNATC	2	1973; 3170
Bse21I	CC!TNAGG	2	2791; 4423
Bse118I	R!CCGGY	7	692; 1068; 1218; 2528; 3630; 3811; 4094
BseAI	T!CCGGA	0	
BseBI	CC!WGG	16	90; 283; 1113; 1238; 1350; 1425; 1479; 2847; 2902; 2919; 3698; 4277; 4380; 5070; 5083; 5204
BseCI	AT!CGAT	1	3151
BseDI	C!CNNGG	21	360; 1096; 1236; 1259; 1399; 1423; 1478; 2845; 2917; 3040; 3075; 3084; 3133; 3474; 3743; 4148; 4275; 4276; 4378; 4379; 5069
Bse3DI	GCAATGNN!	2	1799; 3544
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	7	1055; 1676; 1793; 3171; 3628; 3653; 4107
BseGI	!CATCC	3	1108; 1474; 2997
BseJI	GATNN!NNATC	2	1973; 3170
BseLI	CCNNNN!NNGG	20	49; 680; 1012; 1237; 1400; 2323; 2649; 3041; 3292; 3836; 4117; 4149; 4281; 4316; 4366; 4398; 4751; 5030; 5196; 5214
BseMI	GCAATGNN!	2	1799; 3544
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	4437
BseMII	!NNNNNNNNCTGAG	8	753; 924; 942; 2782; 3084; 3965; 4537; 4946
BseNI	ACTGGN!	4	1624; 3255; 3456; 4702
BseNI	C!CAGT	7	295; 654; 941; 2340; 3018; 4814; 4827
BsePI	G!CGCGC	1	662
BseRI	GAGGAGNNNNNNNNNN!	2	1098; 3129
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI	6	1108; 1237; 1486; 3257; 3350; 4919
BseXI	GCAGCNNNNNNNN!	10	865; 1084; 1319; 1821; 2099; 3384; 3426; 3947; 4400; 4900
BseXI	!NNNNNNNNNNNGCTGC	9	601; 898; 1213; 2593; 3258; 3442; 3535; 4601; 4807
BseX3I	C!GGCCG	2	1955; 3217
BseYI	C!CCAGC	3	2854; 2926; 4925
BseYI	G!CTGGG	1	3815
BsgI	GTGCAGNNNNNNNNNNNNNN!	2	879; 1828
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	1196
Bsh1236I	CG!CG	20	60; 662; 664; 976; 1396; 1505; 1960; 2235; 2611; 2631; 2655; 2686; 3377; 3678; 4116; 4200; 4263; 4332; 4605; 5186
Bsh1285I	CGRY!CG	4	697; 1958; 3220; 4895
BshFI	GG!CC	27	84; 277; 642; 792; 819; 904; 1141; 1241; 1270; 1957; 2277; 2419; 3074; 3080; 3089; 3132; 3219; 3393; 3784; 3811; 4320; 4377; 4410; 4755; 5189; 5207; 5218
BshNI	G!GYRCC	8	465; 1065; 1103; 1578; 1686; 2464; 3310; 3345
BshTI	A!CCGGT	1	692
BshVI	AT!CGAT	1	3151
BsiEI	CGRY!CG	4	697; 1958; 3220; 4895
BsiHKAI	GWGCW!C	4	768; 3424; 3614; 4919
BsiHKCI	C!YCGRG	1	771
BsiSI	C!CGG	23	644; 693; 1012; 1069; 1096; 1159; 1219; 2529; 3216; 3293; 3315; 3343; 3474; 3564; 3631; 3812; 4087; 4095; 4187; 4661; 4851; 4877; 5024
BsiWI	C!GTACG	0	
BsII	CCNNNN!NNGG	20	49; 680; 1012; 1237; 1400; 2323; 2649; 3041; 3292; 3836; 4117; 4149; 4281; 4316; 4366; 4398; 4751; 5030; 5196; 5214
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3462; 3994; 4103
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2827; 2899; 2963; 4258
BsmI	GAATGCN!	1	2062
BsmI	G!CATTC	2	1767; 2155
BsmAI	GTCTCN!	1	434

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BsmAI	!NNNNNGAGAC	5	1894; 2735; 3153; 4172; 4300
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	1894
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3462; 3994; 4103
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2827; 2899; 2963; 4258
BsnI	GG!CC	27	84; 277; 642; 792; 819; 904; 1141; 1241; 1270; 1957; 2277; 2419; 3074; 3080; 3089; 3132; 3219; 3393; 3784; 3811; 4320; 4377; 4410; 4755; 5189; 5207; 5218
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	4300
BsoBI	C!YCGRG	1	771
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	3	360; 3040; 3743
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4114
Bsp24I	!NNNNNNCCANNNNNGTC	2	4535; 4713
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4567; 4745
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4082
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	3993
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	27	585; 670; 686; 829; 977; 1015; 1207; 1508; 1657; 1876; 1968; 3148; 3152; 3171; 3482; 3560; 3641; 3650; 3728; 4104; 4120; 4479; 4491; 4569; 4577; 4588; 4663
Bsp1286I	GDGCH!C	12	768; 1108; 1237; 1486; 2502; 3257; 3350; 3424; 3614; 3676; 4386; 4919
Bsp1407I	T!GTACA	1	1039
Bsp1720I	GC!TNAGC	1	762
BspACI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 612; 660; 833; 1006; 1009; 1286; 1327; 1394; 1433; 1958; 2626; 2629; 2643; 2733; 2981; 2993; 3002; 3014; 3024; 3035; 3081; 3220; 3283; 3785; 3830; 3896; 3922; 4047; 4050; 4198; 4330; 4637; 4781; 5277
BspACI	G!CGG	28	370; 403; 528; 623; 647; 1054; 1060; 1954; 2571; 2598; 2686; 2796; 3377; 3441; 3542; 3545; 3825; 3880; 3978; 4116; 4263; 4403; 4646; 4891; 5012; 5031; 5158; 5186
BspCNI	CTCAGNNNNNNNN!	1	4436
BspCNI	!NNNNNNNCTGAG	8	754; 925; 943; 2783; 3085; 3966; 4538; 4947
BspDI	AT!CGAT	1	3151
BspD6I	GACTCNNNN!	5	418; 1970; 2384; 3990; 4867
BspD6I	!NNNNNNGAGTC	3	1767; 2347; 2779
BspEI	T!CCGGA	0	
BspFNI	CG!CG	20	60; 662; 664; 976; 1396; 1505; 1960; 2235; 2611; 2631; 2655; 2686; 3377; 3678; 4116; 4200; 4263; 4332; 4605; 5186
BspHI	T!CATGA	4	1609; 1828; 2737; 4509
BspLI	GGN!NCC	21	467; 651; 688; 905; 1067; 1105; 1580; 1688; 2466; 2487; 2499; 2690; 2851; 2923; 3312; 3347; 4195; 4274; 4319; 5162; 5201
BspMI	ACCTGCNNNN!	2	3579; 4029
BspMI	!NNNNNNNGCAGGT	1	3198
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	694; 1023; 3179; 3490; 3736; 4128; 4487; 4585; 4671
BspPI	!NNNNNGATCC	8	580; 665; 681; 824; 3555; 4099; 4486; 4583
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3655; 3865
BspTI	C!TTAAG	1	2193
BspT104I	TT!CGAA	1	3993
BspT107I	G!GYRCC	8	465; 1065; 1103; 1578; 1686; 2464; 3310; 3345
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	4300
BsrI	ACTGGN!	4	1624; 3255; 3456; 4702
BsrI	C!CAGT	7	295; 654; 941; 2340; 3018; 4814; 4827
BsrBI	CCG!CTC	2	2735; 3924
BsrBI	GAG!CGG	2	2571; 3978
BsrDI	GCAATGNN!	2	1799; 3544
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	692; 1068; 1218; 2528; 3630; 3811; 4094
BsrGI	T!GTACA	1	1039
BsrSI	ACTGGN!	4	1624; 3255; 3456; 4702

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrSI	C!CAGT	7	295; 654; 941; 2340; 3018; 4814; 4827
BssAI	R!CCGGY	7	692; 1068; 1218; 2528; 3630; 3811; 4094
BssECI	C!CNNGG	21	360; 1096; 1236; 1259; 1399; 1423; 1478; 2845; 2917; 3040; 3075; 3084; 3133; 3474; 3743; 4148; 4275; 4276; 4378; 4379; 5069
BssHII	G!CGCGC	1	662
BssKI	!CCNGG	23	88; 281; 642; 1011; 1095; 1111; 1236; 1348; 1423; 1477; 2845; 2900; 2917; 3313; 3473; 3696; 4086; 4275; 4378; 4850; 5068; 5081; 5202
BssMI	!GATC	27	585; 670; 686; 829; 977; 1015; 1207; 1508; 1657; 1876; 1968; 3148; 3152; 3171; 3482; 3560; 3641; 3650; 3728; 4104; 4120; 4479; 4491; 4569; 4577; 4588; 4663
BssNI	GR!CGYC	8	122; 175; 258; 444; 609; 3311; 4013; 4092
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4029; 5056
BssSI	C!TCGTG	2	1248; 3903
BssTII	C!CWWGG	5	360; 3040; 3133; 3743; 4148
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	3	2778; 3655; 3865
Bst98I	C!TTAAG	1	2193
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 609; 3311; 4013; 4092
BstAFI	C!TTAAG	1	2193
BstAPI	GCANNNN!NTGC	3	2878; 2950; 4412
BstAUI	T!GTACA	1	1039
BstBI	TT!CGAA	1	3993
Bst2BI	C!ACGAG	2	4029; 5056
Bst2BI	C!TCGTG	2	1248; 3903
BstBAI	YAC!GTR	3	340; 2427; 3615
Bst4CI	ACN!GT	14	76; 198; 269; 543; 581; 1607; 2402; 3691; 3807; 3915; 4238; 4729; 5199; 5270
BstC8I	GCN!NGC	33	86; 279; 593; 664; 858; 865; 1191; 1224; 1286; 2530; 2573; 2587; 2860; 2879; 2932; 2951; 3205; 3391; 3610; 3676; 3682; 3714; 3755; 3759; 3813; 4096; 4283; 4330; 4386; 4408; 4619; 5179; 5216
BstDEI	C!TNAG	10	762; 933; 951; 1838; 2791; 3093; 3974; 4423; 4546; 4955
BstDSI	C!CRYGG	3	360; 3040; 3743
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	7	1055; 1676; 1793; 3171; 3628; 3653; 4107
BstF5I	!CATCC	3	1108; 1474; 2997
BstFNI	CG!CG	20	60; 662; 664; 976; 1396; 1505; 1960; 2235; 2611; 2631; 2655; 2686; 3377; 3678; 4116; 4200; 4263; 4332; 4605; 5186
BstH2I	RGCGC!Y	4	2578; 2586; 3314; 4989
BstHHI	GCG!C	25	664; 666; 976; 1357; 1398; 2577; 2585; 2611; 2633; 2642; 2655; 2686; 3305; 3313; 3377; 3414; 3680; 3940; 4116; 4202; 4605; 4714; 4888; 4988; 5055
BstKTI	GAT!C	27	588; 673; 689; 832; 980; 1018; 1210; 1511; 1660; 1879; 1971; 3151; 3155; 3174; 3485; 3563; 3644; 3653; 3731; 4107; 4123; 4482; 4494; 4572; 4580; 4591; 4666
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	5	1894; 2735; 3153; 4172; 4300
BstMBI	!GATC	27	585; 670; 686; 829; 977; 1015; 1207; 1508; 1657; 1876; 1968; 3148; 3152; 3171; 3482; 3560; 3641; 3650; 3728; 4104; 4120; 4479; 4491; 4569; 4577; 4588; 4663
BstMCI	CGRY!CG	4	697; 1958; 3220; 4895
BstMWI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 617; 634; 656; 747; 1072; 1159; 1219; 1232; 1276; 1511; 2538; 2568; 2595; 2637; 2878; 2950; 3001; 3080; 3302; 3386; 3409; 3548; 3671; 3754; 4021; 4208; 4412; 4611; 5183
BstNI	CC!WGG	16	90; 283; 1113; 1238; 1350; 1425; 1479; 2847; 2902; 2919; 3698; 4277; 4380; 5070; 5083; 5204
BstNSI	RCATG!Y	5	599; 2881; 2953; 3716; 5233
BstOI	CC!WGG	16	90; 283; 1113; 1238; 1350; 1425; 1479; 2847; 2902; 2919; 3698; 4277; 4380; 5070; 5083; 5204
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstSCI	!CCNGG	23	88; 281; 642; 1011; 1095; 1111; 1236; 1348; 1423; 1477; 2845; 2900; 2917; 3313; 3473; 3696; 4086; 4275; 4378; 4850; 5068; 5081; 5202
BstSFI	C!TRYAG	4	751; 2646; 4773; 4964
BstSLI	GKGCMI!C	6	1108; 1237; 1486; 3257; 3350; 4919
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	20	60; 662; 664; 976; 1396; 1505; 1960; 2235; 2611; 2631; 2655; 2686; 3377; 3678; 4116; 4200; 4263; 4332; 4605; 5186
Bst2UI	CC!WGG	16	90; 283; 1113; 1238; 1350; 1425; 1479; 2847; 2902; 2919; 3698; 4277; 4380; 5070; 5083; 5204
BstV1I	GCAGCNNNNNNNN!	10	865; 1084; 1319; 1821; 2099; 3384; 3426; 3947; 4400; 4900
BstV1I	!NNNNNNNNNNNGCTGC	9	601; 898; 1213; 2593; 3258; 3442; 3535; 4601; 4807
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNNGTCTTC	0	
BstXI	CCANNNNNN!NTGG	0	
BstX2I	R!GATCY	11	585; 670; 686; 829; 3482; 3728; 4120; 4479; 4491; 4577; 4588
BstYI	R!GATCY	11	585; 670; 686; 829; 3482; 3728; 4120; 4479; 4491; 4577; 4588
BstZI	C!GGCCG	2	1955; 3217
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2740; 3530; 5031
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3151
Bsu36I	CC!TNAGG	2	2791; 4423
BsuRI	GG!CC	27	84; 277; 642; 792; 819; 904; 1141; 1241; 1270; 1957; 2277; 2419; 3074; 3080; 3089; 3132; 3219; 3393; 3784; 3811; 4320; 4377; 4410; 4755; 5189; 5207; 5218
BsuTUI	AT!CGAT	1	3151
BtgI	C!CRYGG	3	360; 3040; 3743
BtgZI	GCGATGNNNNNNNNNN!	4	1189; 1588; 2428; 3763
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3582; 3926
BthCI	GCNG!C	43	614; 617; 620; 623; 650; 662; 856; 863; 914; 917; 1011; 1075; 1229; 1310; 1812; 1960; 2090; 2609; 2631; 2645; 3083; 3222; 3274; 3285; 3375; 3380; 3417; 3458; 3545; 3551; 3787; 3883; 3924; 3938; 4052; 4391; 4406; 4617; 4823; 4826; 4891; 5034; 5189
BtrI	CAC!GTC	2	714; 1826
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2150
BtsCI	GGATGNN!	7	1055; 1676; 1793; 3171; 3628; 3653; 4107
BtsCI	!CATCC	3	1108; 1474; 2997
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3579; 4029
BveI	!NNNNNNNNNGCAGGT	1	3198
Cac8I	GCN!NGC	33	86; 279; 593; 664; 858; 865; 1191; 1224; 1286; 2530; 2573; 2587; 2860; 2879; 2932; 2951; 3205; 3391; 3610; 3676; 3682; 3714; 3755; 3759; 3813; 4096; 4283; 4330; 4386; 4408; 4619; 5179; 5216
CaiI	CAGNNN!CTG	3	1641; 4412; 4820
CciI	T!CATGA	4	1609; 1828; 2737; 4509
CciNI	GC!GGCCGC	1	1955
CdiI	CATC!G	8	352; 896; 1439; 1454; 3600; 3605; 3803; 3944
CdiI	C!GATG	4	1175; 1574; 2414; 3749
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	5183
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 2972; 3014
CelII	GC!TNAGC	1	762
CfoI	GCG!C	25	664; 666; 976; 1357; 1398; 2577; 2585; 2611; 2633; 2642; 2655; 2686; 3305; 3313; 3377; 3414; 3680; 3940; 4116; 4202; 4605; 4714; 4888; 4988; 5055
CfrI	Y!GGCCR	7	790; 1139; 1955; 3217; 3391; 3782; 3809
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	7	692; 1068; 1218; 2528; 3630; 3811; 4094
Cfr13I	G!GNCC	12	83; 276; 641; 903; 986; 1240; 2418; 3827; 4272; 4318; 4376; 4409
Cfr42I	CCGC!GG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
ChaI	GATC!	27	589; 674; 690; 833; 981; 1019; 1211; 1512; 1661; 1880; 1972; 3152; 3156; 3175; 3486; 3564; 3645; 3654; 3732; 4108; 4124; 4483; 4495; 4573; 4581; 4592; 4667
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	4	3128; 4568; 4668; 4746
CjeI	!NNNNNNNNNACNNNNNTGG	7	64; 257; 2795; 2890; 4082; 4632; 5187
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2829; 2924; 4116; 4666; 5221
CjeI	!NNNNNNNNCCANNNNNNGT	4	3094; 4534; 4634; 4712
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	2	4568; 4746
CjePI	!NNNNNNNNGANNNNNNTGG	3	257; 4082; 4681
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	3	290; 4115; 4714
CjePI	!NNNNNNNNCCANNNNNNTC	2	4535; 4713
Clal	AT!CGAT	1	3151
CpoI	CG!GWCCG	1	3827
CseI	GACGCNNNNN!	4	526; 617; 4021; 4100
CseI	!NNNNNNNNNNGCGTC	3	2644; 4539; 5117
CsiI	A!CCWGGT	1	2900
CspI	CG!GWCCG	1	3827
Csp6I	G!TAC	10	218; 243; 298; 331; 382; 539; 1040; 1496; 1929; 3616
Csp45I	TT!CGAA	1	3993
CspAI	A!CCGGT	1	692
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	3	1486; 2591; 4200
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	24	301; 361; 596; 704; 788; 983; 1028; 1301; 1331; 1610; 1829; 2738; 2878; 2950; 3041; 3182; 3527; 3713; 3744; 3770; 4126; 4510; 5230; 5281
CviJI	RG!CY	102	42; 84; 93; 277; 566; 628; 637; 642; 650; 750; 761; 766; 792; 819; 863; 904; 937; 1037; 1088; 1121; 1141; 1193; 1205; 1226; 1241; 1264; 1270; 1342; 1442; 1456; 1490; 1514; 1548; 1641; 1722; 1957; 1980; 2090; 2257; 2277; 2419; 2500; 2514; 2528; 2809; 2850; 2922; 3045; 3074; 3080; 3089; 3097; 3120; 3132; 3138; 3219; 3236; 3244; 3271; 3296; 3380; 3389; 3393; 3417; 3455; 3531; 3548; 3567; 3630; 3674; 3684; 3701; 3784; 3811; 3815; 3852; 3875; 3891; 4071; 4098; 4159; 4281; 4320; 4377; 4384; 4391; 4410; 4421; 4672; 4701; 4744; 4755; 4820; 4899; 4924; 4929; 4975; 5065; 5163; 5189; 5207; 5218
CviKI-1	RG!CY	102	42; 84; 93; 277; 566; 628; 637; 642; 650; 750; 761; 766; 792; 819; 863; 904; 937; 1037; 1088; 1121; 1141; 1193; 1205; 1226; 1241; 1264; 1270; 1342; 1442; 1456; 1490; 1514; 1548; 1641; 1722; 1957; 1980; 2090; 2257; 2277; 2419; 2500; 2514; 2528; 2809; 2850; 2922; 3045; 3074; 3080; 3089; 3097; 3120; 3132; 3138; 3219; 3236; 3244; 3271; 3296; 3380; 3389; 3393; 3417; 3455; 3531; 3548; 3567; 3630; 3674; 3684; 3701; 3784; 3811; 3815; 3852; 3875; 3891; 4071; 4098; 4159; 4281; 4320; 4377; 4384; 4391; 4410; 4421; 4672; 4701; 4744; 4755; 4820; 4899; 4924; 4929; 4975; 5065; 5163; 5189; 5207; 5218
CviQI	G!TAC	10	218; 243; 298; 331; 382; 539; 1040; 1496; 1929; 3616
DdeI	C!TNAG	10	762; 933; 951; 1838; 2791; 3093; 3974; 4423; 4546; 4955
DinI	GGC!GCC	1	3312
DpnI	GA!TC	27	587; 672; 688; 831; 979; 1017; 1209; 1510; 1659; 1878; 1970; 3150; 3154; 3173; 3484; 3562; 3643; 3652; 3730; 4106; 4122; 4481; 4493; 4571; 4579; 4590; 4665
DpnII	!GATC	27	585; 670; 686; 829; 977; 1015; 1207; 1508; 1657; 1876; 1968; 3148; 3152; 3171; 3482; 3560; 3641; 3650; 3728; 4104; 4120; 4479; 4491; 4569; 4577; 4588; 4663
DraI	TTT!AAA	3	2013; 4455; 4474
DraII	RG!GNCCY	1	4409
DraIII	CACNN!GTG	1	2427
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 1396; 4791
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	4	1908; 2382; 3338; 5127
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	2	476; 696
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	1908; 2382; 3338; 5127

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EaeI	Y!GGCCR	7	790; 1139; 1955; 3217; 3391; 3782; 3809
EagI	C!GGCCG	2	1955; 3217
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2778; 3655; 3865
Eam1105I	GACNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	2778; 3655; 3865
EciI	GGCGGANNNNNNNNNN!	4	2811; 3840; 5027; 5173
EciI	!NNNNNNNNNTCCGCC	6	496; 822; 1316; 2982; 3003; 3024
Ecl136II	GAG!CTC	1	766
EclXI	C!GGCCG	2	1955; 3217
Eco24I	GRGCY!C	4	768; 2502; 3676; 4386
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	1	4300
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	986; 3827; 4272
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	2	1955; 3217
Eco57I	CTGAAGNNNNNNNNNNNNNN!	5	1221; 1293; 1464; 3457; 3889
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4687
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	2	2791; 4423
Eco88I	C!YCGRG	1	771
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	5	360; 3040; 3133; 3743; 4148
Eco147I	AGG!CCT	1	3132
EcoHI	!CCSGG	7	642; 1011; 1095; 3313; 3473; 4086; 4850
EcoICRI	GAG!CTC	1	766
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	8	1014; 1221; 1293; 1464; 1512; 3457; 3889; 4151
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	2	4094; 4687
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	4409
EcoRI	G!AATTC	2	1536; 1923
EcoRII	!CCWGG	16	88; 281; 1111; 1236; 1348; 1423; 1477; 2845; 2900; 2917; 3696; 4275; 4378; 5068; 5081; 5202
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	5	360; 3040; 3133; 3743; 4148
EcoT22I	ATGCA!T	3	2883; 2955; 5286
EcoT38I	GRGCY!C	4	768; 2502; 3676; 4386
Eco53kI	GAG!CTC	1	766
EgeI	GGC!GCC	1	3312
EheI	GGC!GCC	1	3312
ErhI	C!CWWGG	5	360; 3040; 3133; 3743; 4148
EsaBC3I	TC!GA	16	773; 845; 1118; 1412; 1439; 2461; 3152; 3425; 3581; 3605; 3641; 3803; 3994; 4039; 4294; 5132
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	1	1894
FaeI	CATG!	24	304; 364; 599; 707; 791; 986; 1031; 1304; 1334; 1613; 1832; 2741; 2881; 2953; 3044; 3185; 3530; 3716; 3747; 3773; 4129; 4513; 5233; 5284
Fail	YA!TR	66	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 597; 705; 753; 784; 789; 984; 1029; 1302; 1332; 1611; 1656; 1716; 1801; 1830; 1918; 1973; 1983; 2049; 2094; 2299; 2727; 2739; 2870; 2879; 2942; 2951; 2975; 3042; 3066; 3183; 3247; 3528; 3553; 3714; 3745; 3771; 3843; 4059; 4127; 4205; 4257; 4418; 4435; 4437; 4439; 4511; 4789; 4978; 5094; 5167; 5231; 5282
FalI	AAGNNNNNCTNNNNNNNNNNNN!	3	839; 1565; 3651
FalI	!NNNNNNNNAAGNNNNNCTT	3	807; 1533; 3619
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3462; 3994; 4103
FaqI	!NNNNNNNNNNNNNGTCCC	4	2827; 2899; 2963; 4258
FatI	!CATG	24	300; 360; 595; 703; 787; 982; 1027; 1300; 1330; 1609; 1828; 2737; 2877; 2949; 3040; 3181; 3526; 3712; 3743; 3769; 4125; 4509; 5229; 5280

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FauI	CCCGCNNNN!	10	93; 119; 286; 1293; 1401; 2633; 2988; 3009; 4205; 4337
FauI	!NNNNNNGCGGG	6	616; 2564; 3434; 3971; 4109; 4256
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	3	1508; 1657; 1876
FblI	GT!MKAC	0	
FmuI	GGNC!C	12	86; 279; 644; 906; 989; 1243; 2421; 3830; 4275; 4321; 4379; 4412
Fnu4HI	GC!NGC	43	612; 615; 618; 621; 648; 660; 854; 861; 912; 915; 1009; 1073; 1227; 1308; 1810; 1958; 2088; 2607; 2629; 2643; 3081; 3220; 3272; 3283; 3373; 3378; 3415; 3456; 3543; 3549; 3785; 3881; 3922; 3936; 4050; 4389; 4404; 4615; 4821; 4824; 4889; 5032; 5187
FokI	GGATGNNNNNNNN!	7	1062; 1683; 1800; 3178; 3635; 3660; 4114
FokI	!NNNNNNNNNNNNNNCATCC	3	1095; 1461; 2984
FriOI	GRGCY!C	4	768; 2502; 3676; 4386
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3413
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1723; 1966; 2160; 2578; 3134; 4149; 4483; 4736
FspEI	CCNNNNNNNNNNNN!	166	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 656; 673; 687; 703; 806; 833; 849; 881; 902; 918; 932; 954; 975; 1002; 1019; 1082; 1109; 1125; 1155; 1172; 1193; 1211; 1229; 1243; 1259; 1284; 1298; 1340; 1362; 1406; 1436; 1491; 1532; 1562; 1595; 1644; 1703; 1773; 1971; 1994; 2033; 2047; 2188; 2283; 2307; 2330; 2353; 2371; 2393; 2414; 2433; 2452; 2481; 2502; 2516; 2542; 2630; 2656; 2705; 2746; 2764; 2803; 2819; 2857; 2914; 2929; 2986; 3006; 3020; 3037; 3051; 3088; 3103; 3146; 3229; 3296; 3327; 3347; 3362; 3407; 3421; 3487; 3501; 3520; 3536; 3577; 3597; 3644; 3694; 3710; 3730; 3755; 3775; 3798; 3825; 3843; 3869; 3909; 3935; 3959; 4015; 4029; 4057; 4100; 4121; 4156; 4200; 4288; 4312; 4334; 4354; 4370; 4391; 4405; 4424; 4508; 4528; 4556; 4571; 4605; 4647; 4674; 4689; 4734; 4758; 4772; 4794; 4820; 4840; 4864; 4890; 4938; 4957; 4976; 5002; 5037; 5082; 5112; 5126; 5177; 5191; 5216; 5232; 5253; 5282
FspEI	!NNNNNNNNNNNNNNNGG	142	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 608; 629; 666; 707; 739; 774; 793; 831; 880; 969; 997; 1032; 1054; 1081; 1107; 1144; 1171; 1204; 1223; 1246; 1324; 1356; 1386; 1410; 1431; 1449; 1476; 1527; 1555; 1578; 1598; 1635; 1653; 1704; 1749; 1770; 1825; 1882; 1939; 1982; 2082; 2151; 2181; 2259; 2308; 2330; 2358; 2394; 2439; 2468; 2504; 2523; 2551; 2571; 2634; 2657; 2765; 2797; 2815; 2844; 2887; 2916; 3027; 3056; 3099; 3120; 3148; 3181; 3201; 3226; 3253; 3278; 3300; 3328; 3354; 3375; 3426; 3447; 3465; 3513; 3549; 3605; 3630; 3654; 3683; 3706; 3730; 3756; 3778; 3797; 3822; 3862; 3898; 3963; 4048; 4072; 4101; 4135; 4156; 4176; 4221; 4248; 4267; 4300; 4352; 4383; 4410; 4462; 4560; 4631; 4676; 4737; 4802; 4836; 4862; 4880; 4916; 4986; 5009; 5031; 5055; 5088; 5136; 5171; 5189; 5246
Fsp4HI	GC!NGC	43	612; 615; 618; 621; 648; 660; 854; 861; 912; 915; 1009; 1073; 1227; 1308; 1810; 1958; 2088; 2607; 2629; 2643; 3081; 3220; 3272; 3283; 3373; 3378; 3415; 3456; 3543; 3549; 3785; 3881; 3922; 3936; 4050; 4389; 4404; 4615; 4821; 4824; 4889; 5032; 5187
GdiII	C!GGCCR	3	1139; 1955; 3217
GdiII	Y!GGCCG	5	790; 1955; 3217; 3782; 3809
GlaI	GC!GC	25	663; 665; 975; 1356; 1397; 2576; 2584; 2610; 2632; 2641; 2654; 2685; 3304; 3312; 3376; 3413; 3679; 3939; 4115; 4201; 4604; 4713; 4887; 4987; 5054
GluI	GC!NGC	43	612; 615; 618; 621; 648; 660; 854; 861; 912; 915; 1009; 1073; 1227; 1308; 1810; 1958; 2088; 2607; 2629; 2643; 3081; 3220; 3272; 3283; 3373; 3378; 3415; 3456; 3543; 3549; 3785; 3881; 3922; 3936; 4050; 4389; 4404; 4615; 4821; 4824; 4889; 5032; 5187
GsaI	CCCAG!C	3	2858; 2930; 4929
GsaI	GCTGG!G	1	3819
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	1014; 1512; 4151
GsuI	!NNNNNNNNNNNNNNNCTCCAG	1	4094
HaeI	WGG!CCW	6	819; 3132; 3393; 4755; 5207; 5218
HaeII	RGCGC!Y	4	2578; 2586; 3314; 4989

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIII	GG↓CC	27	84; 277; 642; 792; 819; 904; 1141; 1241; 1270; 1957; 2277; 2419; 3074; 3080; 3089; 3132; 3219; 3393; 3784; 3811; 4320; 4377; 4410; 4755; 5189; 5207; 5218
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1986; 3507
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	1952; 3473
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	1985; 3506
HaeIV	!NNNNNNNGAYNNNNNRTC	2	1954; 3475
HapII	C↓CGG	23	644; 693; 1012; 1069; 1096; 1159; 1219; 2529; 3216; 3293; 3315; 3343; 3474; 3564; 3631; 3812; 4087; 4095; 4187; 4661; 4851; 4877; 5024
HgaI	GACGCNNNNN!	4	526; 617; 4021; 4100
HgaI	!NNNNNNNNNNGCGTC	3	2644; 4539; 5117
HhaI	GCG↓C	25	664; 666; 976; 1357; 1398; 2577; 2585; 2611; 2633; 2642; 2655; 2686; 3305; 3313; 3377; 3414; 3680; 3940; 4116; 4202; 4605; 4714; 4888; 4988; 5055
HinI	GR↓CGYC	8	122; 175; 258; 444; 609; 3311; 4013; 4092
Hin1II	CATG↓!	24	304; 364; 599; 707; 791; 986; 1031; 1304; 1334; 1613; 1832; 2741; 2881; 2953; 3044; 3185; 3530; 3716; 3747; 3773; 4129; 4513; 5233; 5284
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	1985; 3506
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	1953; 3474; 3504
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	1985; 3506; 3536
Hin4I	!NNNNNNNNNGAYNNNNNVTC	2	1953; 3474
Hin6I	G↓CGC	25	662; 664; 974; 1355; 1396; 2575; 2583; 2609; 2631; 2640; 2653; 2684; 3303; 3311; 3375; 3412; 3678; 3938; 4114; 4200; 4603; 4712; 4886; 4986; 5053
HinP1I	G↓CGC	25	662; 664; 974; 1355; 1396; 2575; 2583; 2609; 2631; 2640; 2653; 2684; 3303; 3311; 3375; 3412; 3678; 3938; 4114; 4200; 4603; 4712; 4886; 4986; 5053
HincII	GTY↓!RAC	2	1913; 2074
HindII	GTY↓!RAC	2	1913; 2074
HindIII	A↓AGCTT	0	
HinfI	G↓ANTC	13	410; 1774; 1962; 2354; 2376; 2786; 3796; 3930; 3982; 4040; 4077; 4859; 5255
HpaI	GTT↓AAC	1	2074
HpaII	C↓CGG	23	644; 693; 1012; 1069; 1096; 1159; 1219; 2529; 3216; 3293; 3315; 3343; 3474; 3564; 3631; 3812; 4087; 4095; 4187; 4661; 4851; 4877; 5024
HphI	GGTGANNNNNNNN!	5	376; 1415; 1439; 4382; 4498
HphI	!NNNNNNNTCACC	3	1085; 2428; 3489
Hpy8I	GTN↓NAC	12	201; 539; 577; 1093; 1136; 1430; 1913; 2074; 2358; 2375; 2430; 4917
Hpy99I	CGWCG↓!	12	718; 846; 903; 1134; 1380; 3401; 3429; 3723; 3738; 4015; 4400; 5133
Hpy166II	GTN↓NAC	12	201; 539; 577; 1093; 1136; 1430; 1913; 2074; 2358; 2375; 2430; 4917
Hpy188I	TCN↓GA	15	585; 747; 1627; 1773; 1881; 2485; 3094; 3278; 3622; 3975; 4076; 4555; 4689; 5042; 5120
Hpy188III	TC↓NNGA	28	605; 773; 827; 950; 1001; 1250; 1610; 1829; 1966; 2738; 2790; 3103; 3156; 3329; 3645; 3654; 3737; 3793; 3837; 3927; 3960; 4029; 4510; 4584; 4667; 4765; 4863; 4997
HpyAV	CCTTCNNNNNN!	4	1559; 3956; 4063; 4742
HpyAV	!NNNNNGAAGG	9	1332; 1439; 2544; 3439; 4168; 4184; 4367; 4684; 4994
HpyCH4III	ACN↓GT	14	76; 198; 269; 543; 581; 1607; 2402; 3691; 3807; 3915; 4238; 4729; 5199; 5270
HpyCH4IV	A↓CGT	22	122; 134; 175; 258; 339; 444; 713; 778; 841; 1045; 1132; 1345; 1820; 1825; 2371; 2383; 2426; 2536; 3427; 3614; 4395; 4528
HpyCH4V	TG↓CA	21	860; 1213; 1649; 1809; 1944; 2060; 2087; 2155; 2872; 2881; 2944; 2953; 3068; 3144; 3203; 3362; 3537; 3551; 4621; 4917; 5284
HpyF3I	C↓TNAG	10	762; 933; 951; 1838; 2791; 3093; 3974; 4423; 4546; 4955
HpyF10VI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 617; 634; 656; 747; 1072; 1159; 1219; 1232; 1276; 1511; 2538; 2568; 2595; 2637; 2878; 2950; 3001; 3080; 3302; 3386; 3409; 3548; 3671; 3754; 4021; 4208; 4412; 4611; 5183
Hsp92I	GR↓CGYC	8	122; 175; 258; 444; 609; 3311; 4013; 4092

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hsp92II	CATG!	24	304; 364; 599; 707; 791; 986; 1031; 1304; 1334; 1613; 1832; 2741; 2881; 2953; 3044; 3185; 3530; 3716; 3747; 3773; 4129; 4513; 5233; 5284
HspAI	G!CGC	25	662; 664; 974; 1355; 1396; 2575; 2583; 2609; 2631; 2640; 2653; 2684; 3303; 3311; 3375; 3412; 3678; 3938; 4114; 4200; 4603; 4712; 4886; 4986; 5053
KasI	G!GCGCC	1	3310
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	3	1508; 1657; 1876
KspAI	GTT!AAC	1	2074
Kzo9I	!GATC	27	585; 670; 686; 829; 977; 1015; 1207; 1508; 1657; 1876; 1968; 3148; 3152; 3171; 3482; 3560; 3641; 3650; 3728; 4104; 4120; 4479; 4491; 4569; 4577; 4588; 4663
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	3655; 3865
LpnI	RGC!GCGY	4	2576; 2584; 3312; 4987
LpnPI	CCDGNNNNNNNNN!	65	102; 295; 618; 657; 706; 891; 945; 963; 1002; 1025; 1082; 1109; 1125; 1172; 1212; 1232; 1250; 1284; 1362; 1437; 1491; 2048; 2353; 2542; 2765; 2803; 2819; 2859; 2914; 2931; 3031; 3116; 3229; 3306; 3328; 3351; 3487; 3501; 3520; 3577; 3644; 3694; 3710; 3767; 3825; 4034; 4100; 4124; 4200; 4289; 4392; 4425; 4656; 4674; 4820; 4840; 4864; 4890; 4939; 5037; 5082; 5112; 5191; 5216; 5253
LpnPI	!NNNNNNNNNNNNNCHGG	60	75; 268; 552; 619; 678; 718; 978; 997; 1054; 1081; 1107; 1144; 1204; 1223; 1335; 1410; 1464; 1605; 1635; 2394; 2514; 2571; 2634; 2832; 2844; 2904; 2916; 3148; 3193; 3236; 3278; 3300; 3328; 3375; 3437; 3459; 3549; 3616; 3639; 3683; 3778; 3797; 3822; 3971; 4072; 4115; 4172; 4262; 4365; 4392; 4410; 4646; 4683; 4836; 4862; 5002; 5020; 5055; 5136; 5189
Lsp1109I	GCAGCNNNNNNNN!	10	865; 1084; 1319; 1821; 2099; 3384; 3426; 3947; 4400; 4900
Lsp1109I	!NNNNNNNNNNNNNGCTGC	9	601; 898; 1213; 2593; 3258; 3442; 3535; 4601; 4807
LweI	GCATCNNNNNN!	9	820; 1444; 1459; 2127; 2890; 2962; 3610; 3674; 3949
LweI	!NNNNNNNNNNGATGC	7	357; 1166; 1661; 3269; 3524; 3740; 5132
MabI	A!CCWGGT	1	2900
MaeI	C!TAG	9	592; 1723; 1966; 2160; 2578; 3134; 4149; 4483; 4736
MaeII	A!CGT	22	122; 134; 175; 258; 339; 444; 713; 778; 841; 1045; 1132; 1345; 1820; 1825; 2371; 2383; 2426; 2536; 3427; 3614; 4395; 4528
MaeIII	!GTNAC	17	61; 148; 497; 735; 1001; 1250; 1615; 1821; 2099; 2600; 2612; 3431; 3737; 4427; 4693; 4809; 4872
MalI	GA!TC	27	587; 672; 688; 831; 979; 1017; 1209; 1510; 1659; 1878; 1970; 3150; 3154; 3173; 3484; 3562; 3643; 3652; 3730; 4106; 4122; 4481; 4493; 4571; 4579; 4590; 4665
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	5	144; 197; 466; 540; 1718
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2735; 3924
MbiI	GAG!CGG	2	2571; 3978
MboI	!GATC	27	585; 670; 686; 829; 977; 1015; 1207; 1508; 1657; 1876; 1968; 3148; 3152; 3171; 3482; 3560; 3641; 3650; 3728; 4104; 4120; 4479; 4491; 4569; 4577; 4588; 4663
MboII	GAAGANNNNNNNN!	10	815; 1533; 1761; 1872; 1932; 2567; 2795; 3672; 3882; 4501
MboII	!NNNNNNNTCTTC	6	1310; 1355; 3962; 4129; 4329; 4572
McaTI	GCGC!GC	1	665
MfeI	C!AATTG	1	2061
MfII	R!GATCY	11	585; 670; 686; 829; 3482; 3728; 4120; 4479; 4491; 4577; 4588
MhII	GDGCH!C	12	768; 1108; 1237; 1486; 2502; 3257; 3350; 3424; 3614; 3676; 4386; 4919
MIsI	TGG!CCA	1	3393
MluI	A!CGCGT	1	1503
MluNI	TGG!CCA	1	3393
MlyI	GAGTCNNNNN!	3	1783; 2363; 2795
MlyI	!NNNNNGACTC	5	404; 1956; 2370; 3976; 4853
Mly113I	GG!CGCC	1	3311
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	1	2404

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	4836; 5020
MnlI	CCTCNNNNNNN!	9	1257; 1269; 2030; 3094; 3912; 4118; 4432; 4802; 5126
MnlI	!NNNNNNGAGG	21	541; 839; 1076; 1157; 1394; 1406; 1457; 1606; 1757; 1990; 2455; 2786; 3064; 3107; 3122; 3162; 3226; 3362; 3719; 4149; 5052
Mph1103I	ATGCA!T	3	2883; 2955; 5286
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	2528; 3811; 4094
MroXI	GAANN!NNTTC	1	1278
MscI	TGG!CCA	1	3393
MseI	T!TAA	15	7; 2012; 2073; 2194; 2215; 2226; 2238; 2249; 2266; 2364; 2635; 4454; 4468; 4473; 4525
MslI	CAYNN!NNRTG	5	365; 1098; 1248; 1425; 3748
MspI	C!CGG	23	644; 693; 1012; 1069; 1096; 1159; 1219; 2529; 3216; 3293; 3315; 3343; 3474; 3564; 3631; 3812; 4087; 4095; 4187; 4661; 4851; 4877; 5024
Msp20I	TGG!CCA	1	3393
MspA1I	CMG!CKG	6	614; 1514; 2809; 3417; 4646; 4891
MspCI	C!TTAAG	1	2193
MspJI	CNNRNNNNNNNNN!	270	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 617; 636; 650; 665; 679; 705; 724; 745; 758; 774; 800; 813; 827; 849; 869; 890; 903; 918; 931; 944; 962; 975; 993; 1013; 1035; 1058; 1081; 1094; 1108; 1124; 1145; 1166; 1181; 1195; 1211; 1231; 1244; 1260; 1283; 1297; 1311; 1334; 1347; 1361; 1382; 1400; 1424; 1437; 1451; 1472; 1490; 1503; 1516; 1531; 1546; 1568; 1598; 1611; 1632; 1648; 1662; 1687; 1713; 1735; 1753; 1773; 1796; 1825; 1841; 1863; 1892; 1916; 1940; 1957; 1971; 1984; 1999; 2018; 2035; 2048; 2089; 2103; 2116; 2134; 2172; 2187; 2205; 2246; 2270; 2290; 2308; 2329; 2352; 2384; 2399; 2421; 2439; 2452; 2473; 2490; 2503; 2516; 2532; 2545; 2575; 2590; 2615; 2633; 2646; 2661; 2685; 2699; 2723; 2748; 2764; 2802; 2818; 2857; 2871; 2885; 2913; 2929; 2943; 2957; 2986; 2999; 3020; 3029; 3051; 3081; 3097; 3115; 3145; 3168; 3192; 3216; 3235; 3263; 3289; 3305; 3318; 3341; 3355; 3375; 3388; 3402; 3421; 3435; 3448; 3464; 3479; 3492; 3508; 3523; 3539; 3564; 3583; 3599; 3612; 3625; 3643; 3657; 3671; 3687; 3709; 3725; 3744; 3766; 3782; 3805; 3824; 3838; 3854; 3868; 3888; 3904; 3917; 3939; 3972; 3986; 4006; 4019; 4033; 4087; 4100; 4123; 4136; 4155; 4172; 4199; 4235; 4268; 4287; 4312; 4333; 4360; 4373; 4390; 4404; 4419; 4435; 4495; 4520; 4536; 4558; 4571; 4585; 4616; 4630; 4655; 4673; 4688; 4701; 4720; 4733; 4748; 4777; 4796; 4814; 4839; 4854; 4873; 4889; 4908; 4926; 4942; 4956; 4975; 5002; 5025; 5047; 5066; 5081; 5094; 5111; 5131; 5158; 5171; 5190; 5215; 5238; 5252; 5265; 5282
MspJI	!NNNNNNNNNNNNYNG	221	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 591; 608; 625; 647; 667; 690; 714; 731; 749; 774; 801; 818; 843; 864; 881; 904; 927; 954; 975; 998; 1020; 1055; 1082; 1099; 1131; 1149; 1171; 1196; 1216; 1234; 1252; 1271; 1297; 1317; 1335; 1356; 1374; 1396; 1425; 1446; 1464; 1488; 1527; 1546; 1585; 1606; 1636; 1687; 1709; 1745; 1765; 1790; 1810; 1865; 1894; 1912; 1945; 1963; 1992; 2021; 2063; 2146; 2181; 2208; 2231; 2260; 2304; 2326; 2358; 2394; 2411; 2432; 2469; 2489; 2506; 2523; 2558; 2576; 2594; 2611; 2635; 2657; 2684; 2712; 2738; 2776; 2797; 2814; 2832; 2855; 2876; 2904; 2927; 2948; 2966; 2987; 3004; 3027; 3051; 3071; 3089; 3111; 3142; 3164; 3190; 3209; 3226; 3254; 3273; 3292; 3310; 3328; 3349; 3371; 3395; 3428; 3448; 3466; 3487; 3513; 3540; 3557; 3574; 3591; 3617; 3639; 3661; 3679; 3699; 3718; 3740; 3778; 3798; 3822; 3842; 3862; 3889; 3913; 3946; 3965; 3993; 4015; 4044; 4072; 4097; 4116; 4135; 4156; 4173; 4190; 4221; 4248; 4268; 4291; 4311; 4348; 4365; 4384; 4410; 4430; 4469; 4496; 4515; 4533; 4570; 4588; 4629; 4647; 4673; 4690; 4722; 4751; 4779; 4800; 4823; 4842; 4863; 4881; 4898; 4916; 4942; 4963; 4983; 5003; 5021; 5042; 5068; 5085; 5104; 5123; 5152; 5171; 5189; 5208; 5226; 5244; 5267

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspR9I	CC!NGG	23	90; 283; 644; 1013; 1097; 1113; 1238; 1350; 1425; 1479; 2847; 2902; 2919; 3315; 3475; 3698; 4088; 4277; 4380; 4852; 5070; 5083; 5204
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2061
MvaI	CC!WGG	16	90; 283; 1113; 1238; 1350; 1425; 1479; 2847; 2902; 2919; 3698; 4277; 4380; 5070; 5083; 5204
Mva1269I	GAATGCN!	1	2062
Mva1269I	G!CATTC	2	1767; 2155
MvnI	CG!CG	20	60; 662; 664; 976; 1396; 1505; 1960; 2235; 2611; 2631; 2655; 2686; 3377; 3678; 4116; 4200; 4263; 4332; 4605; 5186
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	35	90; 212; 244; 283; 376; 400; 617; 634; 656; 747; 1072; 1159; 1219; 1232; 1276; 1511; 2538; 2568; 2595; 2637; 2878; 2950; 3001; 3080; 3302; 3386; 3409; 3548; 3671; 3754; 4021; 4208; 4412; 4611; 5183
NaeI	GCC!GGC	3	2530; 3813; 4096
NarI	GG!CGCC	1	3311
NciI	CC!SGG	7	644; 1013; 1097; 3315; 3475; 4088; 4852
NcoI	C!CATGG	3	360; 3040; 3743
NdeI	CA!TATG	1	234
NdeII	!GATC	27	585; 670; 686; 829; 977; 1015; 1207; 1508; 1657; 1876; 1968; 3148; 3152; 3171; 3482; 3560; 3641; 3650; 3728; 4104; 4120; 4479; 4491; 4569; 4577; 4588; 4663
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	2528; 3811; 4094
NheI	G!CTAGC	1	591
NlaIII	CATG!	24	304; 364; 599; 707; 791; 986; 1031; 1304; 1334; 1613; 1832; 2741; 2881; 2953; 3044; 3185; 3530; 3716; 3747; 3773; 4129; 4513; 5233; 5284
NlaIV	GGN!NCC	21	467; 651; 688; 905; 1067; 1105; 1580; 1688; 2466; 2487; 2499; 2690; 2851; 2923; 3312; 3347; 4195; 4274; 4319; 5162; 5201
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	5	733; 1607; 2143; 2458; 4050
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 5122
Nli3877I	CYCGR!G	1	775
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	3	1424; 3100; 3536
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	4	618; 1003; 1240; 3065
NmeDI	RCCGGYNNNNNNN!	7	704; 1080; 1230; 2540; 3642; 3823; 4106
NmeDI	!NNNNNNNNNNNNRCCGGY	7	679; 1055; 1205; 2515; 3617; 3798; 4081
NmuCI	!GTSAC	8	735; 1001; 1250; 1615; 1821; 2600; 3431; 3737
NotI	GC!GGCCGC	1	1955
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3413
NsiI	ATGCA!T	3	2883; 2955; 5286
NspI	RCATG!Y	5	599; 2881; 2953; 3716; 5233
NspV	TT!CGAA	1	3993
OliI	CACNN!NNGTG	3	1098; 1248; 1425
PabI	GTA!C	10	220; 245; 300; 333; 384; 541; 1042; 1498; 1931; 3618
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2881; 2953; 3716
PaeR7I	C!TCGAG	1	771
PagI	T!CATGA	4	1609; 1828; 2737; 4509
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4276; 4379
PauI	G!CGCGC	1	662
PceI	AGG!CCT	1	3132
PciI	A!CATGT	1	5229
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3655; 3865
PcsI	WCGNNNN!NNNCGW	8	973; 1030; 3605; 3682; 3925; 3999; 4392; 4910
PctI	GAATGCN!	1	2062
PctI	G!CATTC	2	1767; 2155
PdiI	GCC!GGC	3	2530; 3813; 4096

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PdmI	GAANN!NNTTC	1	1278
PfeI	G!AWTC	5	3796; 3930; 4040; 4077; 5255
Pfi23II	C!GTACG	0	
PfifI	GACN!NNGTC	1	3429
PfimiI	CCANNNN!NTGG	1	680
PfoI	T!CCNGGA	2	1348; 4086
PhoI	GG!CC	27	84; 277; 642; 792; 819; 904; 1141; 1241; 1270; 1957; 2277; 2419; 3074; 3080; 3089; 3132; 3219; 3393; 3784; 3811; 4320; 4377; 4410; 4755; 5189; 5207; 5218
PinAI	A!CCGGT	1	692
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	1	3692
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	1655; 3257; 3512
PleI	GAGTCNNNN!	3	1782; 2362; 2794
PleI	!NNNNNGACTC	5	404; 1956; 2370; 3976; 4853
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2393
PpiI	!NNNNNNNNNGAGNNNNNGTTC	3	1074; 1392; 4523
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	3	1106; 1424; 4555
PpiI	!NNNNNNNGAACNNNNNCTC	1	2361
PpsI	GAGTCNNNN!	3	1782; 2362; 2794
PpsI	!NNNNNGACTC	5	404; 1956; 2370; 3976; 4853
Ppu10I	A!TGCAT	3	2879; 2951; 5282
Ppu21I	YAC!GTR	3	340; 2427; 3615
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	5229
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2094; 2299
Psp03I	GGWC!C	3	989; 3830; 4275
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	16	88; 281; 1111; 1236; 1348; 1423; 1477; 2845; 2900; 2917; 3696; 4275; 4378; 5068; 5081; 5202
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	768
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	16	88; 281; 1111; 1236; 1348; 1423; 1477; 2845; 2900; 2917; 3696; 4275; 4378; 5068; 5081; 5202
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	21	467; 651; 688; 905; 1067; 1105; 1580; 1688; 2466; 2487; 2499; 2690; 2851; 2923; 3312; 3347; 4195; 4274; 4319; 5162; 5201
PspOMI	G!GGCCC	0	
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	3	125; 3041; 4040
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3443
PspPI	G!GNCC	12	83; 276; 641; 903; 986; 1240; 2418; 3827; 4272; 4318; 4376; 4409
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	2864; 2936; 4442
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	3	1465; 2777; 3972
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	4412
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	3	1641; 4412; 4820
PsuI	R!GATCY	11	585; 670; 686; 829; 3482; 3728; 4120; 4479; 4491; 4577; 4588
PsyI	GACN!NNGTC	1	3429
PteI	G!CGCGC	1	662
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1514; 2809; 3417

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RcaI	T!CATGA	4	1609; 1828; 2737; 4509
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	3826
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	2040
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	1	602
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	1	871
RpaB5I	!NNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	10	219; 244; 299; 332; 383; 540; 1041; 1497; 1930; 3617
RsaNI	G!TAC	10	218; 243; 298; 331; 382; 539; 1040; 1496; 1929; 3616
RseI	CAYNN!NNRTG	5	365; 1098; 1248; 1425; 3748
RsrII	CG!GWCCG	1	3827
Rsr2I	CG!GWCCG	1	3827
SacI	GAGCT!C	1	768
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTCN!	0	
SapI	!NNNNGAAGAGC	2	3655; 3865
SaqAI	T!TAA	15	7; 2012; 2073; 2194; 2215; 2226; 2238; 2249; 2266; 2364; 2635; 4454; 4468; 4473; 4525
SatI	GC!NGC	43	612; 615; 618; 621; 648; 660; 854; 861; 912; 915; 1009; 1073; 1227; 1308; 1810; 1958; 2088; 2607; 2629; 2643; 3081; 3220; 3272; 3283; 3373; 3378; 3415; 3456; 3543; 3549; 3785; 3881; 3922; 3936; 4050; 4389; 4404; 4615; 4821; 4824; 4889; 5032; 5187
Sau96I	G!GNCC	12	83; 276; 641; 903; 986; 1240; 2418; 3827; 4272; 4318; 4376; 4409
Sau3AI	!GATC	27	585; 670; 686; 829; 977; 1015; 1207; 1508; 1657; 1876; 1968; 3148; 3152; 3171; 3482; 3560; 3641; 3650; 3728; 4104; 4120; 4479; 4491; 4569; 4577; 4588; 4663
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	1783; 2363; 2795
SchI	!NNNNNGACTC	5	404; 1956; 2370; 3976; 4853
SciI	CTC!GAG	1	773
ScrFI	CC!NGG	23	90; 283; 644; 1013; 1097; 1113; 1238; 1350; 1425; 1479; 2847; 2902; 2919; 3315; 3475; 3698; 4088; 4277; 4380; 4852; 5070; 5083; 5204
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	7	827; 1376; 1662; 2889; 2961; 3130; 5072
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	3466; 3951
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	12	768; 1108; 1237; 1486; 2502; 3257; 3350; 3424; 3614; 3676; 4386; 4919
SelI	!CGCG	20	58; 660; 662; 974; 1394; 1503; 1958; 2233; 2609; 2629; 2653; 2684; 3375; 3676; 4114; 4198; 4261; 4330; 4603; 5184
SetI	ASST!	77	125; 137; 178; 261; 308; 342; 447; 552; 568; 716; 737; 752; 758; 768; 781; 844; 865; 934; 939; 1039; 1048; 1090; 1123; 1135; 1185; 1195; 1207; 1228; 1348; 1405; 1444; 1492; 1516; 1617; 1643; 1823; 1828; 2001; 2022; 2031; 2043; 2092; 2259; 2374; 2386; 2429; 2466; 2516; 2539; 2663; 2811; 2906; 3099; 3212; 3340; 3419; 3430; 3502; 3573; 3617; 3877; 4023; 4067; 4398; 4429; 4488; 4531; 4674; 4695; 4794; 4931; 4946; 4965; 4977; 5021; 5067; 5118
SexAI	A!CCWGGT	1	2900
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	9	820; 1444; 1459; 2127; 2890; 2962; 3610; 3674; 3949
SfaNI	!NNNNNNNNNGATGC	7	357; 1166; 1661; 3269; 3524; 3740; 5132
SfcI	C!TRYAG	4	751; 2646; 4773; 4964
SfiI	GGCCNNNN!NGGCC	1	3086

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SfoI	GGC!GCC	1	3312
Sfr274I	C!TCGAG	1	771
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	1	3993
SgeI	CNNGNNNNNNNNN!	209	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 617; 636; 650; 666; 680; 705; 724; 745; 783; 800; 827; 857; 876; 890; 918; 944; 962; 980; 995; 1013; 1035; 1058; 1081; 1094; 1108; 1124; 1157; 1171; 1202; 1231; 1244; 1260; 1283; 1297; 1313; 1334; 1347; 1361; 1382; 1400; 1424; 1437; 1451; 1472; 1490; 1503; 1516; 1553; 1611; 1632; 1662; 1713; 1735; 1773; 1796; 1836; 1920; 1971; 2018; 2047; 2089; 2172; 2246; 2330; 2352; 2384; 2421; 2439; 2458; 2473; 2515; 2532; 2549; 2584; 2598; 2615; 2637; 2661; 2685; 2750; 2764; 2802; 2818; 2858; 2871; 2890; 2913; 2930; 2943; 2962; 2992; 3013; 3030; 3053; 3088; 3115; 3146; 3168; 3194; 3216; 3235; 3263; 3299; 3318; 3341; 3355; 3375; 3388; 3402; 3421; 3435; 3454; 3486; 3500; 3513; 3539; 3570; 3583; 3600; 3617; 3631; 3648; 3666; 3681; 3709; 3725; 3744; 3766; 3782; 3805; 3824; 3849; 3868; 3888; 3915; 3939; 3972; 3991; 4019; 4033; 4099; 4123; 4138; 4161; 4182; 4199; 4247; 4274; 4288; 4317; 4341; 4374; 4391; 4411; 4424; 4437; 4495; 4522; 4541; 4571; 4596; 4616; 4630; 4655; 4673; 4710; 4748; 4777; 4805; 4819; 4839; 4854; 4875; 4889; 4908; 4926; 4942; 4982; 5002; 5029; 5047; 5068; 5081; 5094; 5111; 5135; 5158; 5190; 5215; 5242; 5264
SgeI	!NNNNNNNNNNNNCNG	182	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 610; 629; 647; 679; 698; 719; 757; 774; 801; 831; 850; 892; 918; 936; 954; 975; 998; 1020; 1055; 1082; 1099; 1131; 1149; 1176; 1205; 1223; 1246; 1271; 1297; 1317; 1335; 1356; 1374; 1398; 1425; 1446; 1464; 1488; 1527; 1585; 1606; 1636; 1687; 1709; 1747; 1770; 1810; 1894; 1945; 1992; 2021; 2063; 2146; 2220; 2304; 2326; 2358; 2395; 2413; 2432; 2489; 2506; 2523; 2558; 2576; 2596; 2616; 2635; 2659; 2724; 2776; 2832; 2864; 2887; 2904; 2936; 2966; 2987; 3004; 3027; 3062; 3089; 3120; 3142; 3168; 3190; 3209; 3237; 3273; 3292; 3315; 3336; 3354; 3371; 3395; 3428; 3460; 3487; 3513; 3544; 3574; 3591; 3617; 3640; 3661; 3683; 3703; 3723; 3740; 3779; 3798; 3823; 3842; 3862; 3889; 3913; 3946; 3965; 3993; 4015; 4073; 4097; 4116; 4135; 4156; 4173; 4221; 4248; 4268; 4291; 4315; 4348; 4365; 4385; 4411; 4469; 4496; 4515; 4545; 4570; 4590; 4629; 4647; 4684; 4722; 4751; 4779; 4800; 4828; 4849; 4882; 4900; 4956; 4976; 5003; 5021; 5042; 5068; 5085; 5109; 5132; 5164; 5189; 5216; 5238; 5267
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	5	27; 1623; 2458; 4245; 5038
SimI	!GACCC	7	106; 959; 1195; 1390; 3739; 4307; 4555
SinI	G!GWCC	3	986; 3827; 4272
SlaI	C!TCGAG	1	771
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 1098; 1248; 1425; 3748
SmlI	C!TYRAG	6	771; 2193; 3702; 4584; 4861; 5123
SmoI	C!TYRAG	6	771; 2193; 3702; 4584; 4861; 5123
SmuI	CCCGCNNNN!	10	93; 119; 286; 1293; 1401; 2633; 2988; 3009; 4205; 4337
SmuI	!NNNNNNGCGGG	6	616; 2564; 3434; 3971; 4109; 4256
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2881; 2953; 3716
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	14	18; 1536; 1644; 1704; 1923; 2061; 2125; 2203; 2229; 2240; 2887; 2959; 3051; 4469
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	1	3132

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 612; 660; 833; 1006; 1009; 1286; 1327; 1394; 1433; 1958; 2626; 2629; 2643; 2733; 2981; 2993; 3002; 3014; 3024; 3035; 3081; 3220; 3283; 3785; 3830; 3896; 3922; 4047; 4050; 4198; 4330; 4637; 4781; 5277
SsiI	G!CGG	28	370; 403; 528; 623; 647; 1054; 1060; 1954; 2571; 2598; 2686; 2796; 3377; 3441; 3542; 3545; 3825; 3880; 3978; 4116; 4263; 4403; 4646; 4891; 5012; 5031; 5158; 5186
SspI	AAT!ATT	2	2219; 2772
SspDI	G!GCGCC	1	3310
SspD5I	GGTGANNNNNNNN!	5	376; 1415; 1439; 4382; 4498
SspD5I	!NNNNNNNNNTCACC	3	1084; 2427; 3488
SstI	GAGCT!C	1	768
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	24	92; 118; 285; 650; 913; 925; 1237; 1292; 1300; 1342; 1400; 1708; 2510; 2632; 2987; 3008; 3321; 3724; 3863; 3934; 4204; 4336; 4566; 5004
Sth132I	!NNNNNNNNNCGGG	21	15; 407; 470; 615; 1004; 1088; 2511; 2563; 2664; 3391; 3433; 3466; 3970; 4079; 4108; 4255; 4359; 4390; 4843; 4887; 5095
Sth302II	CC!GG	23	645; 694; 1013; 1070; 1097; 1160; 1220; 2530; 3217; 3294; 3316; 3344; 3475; 3565; 3632; 3813; 4088; 4096; 4188; 4662; 4852; 4878; 5025
StrI	C!TCGAG	1	771
StsI	GGATGNNNNNNNNNN!	7	1063; 1684; 1801; 3179; 3636; 3661; 4115
StsI	!NNNNNNNNNNNNNNNCATCC	3	1094; 1460; 2983
StuI	AGG!CCT	1	3132
StyI	C!CWWGG	5	360; 3040; 3133; 3743; 4148
StyD4I	!CCNGG	23	88; 281; 642; 1011; 1095; 1111; 1236; 1348; 1423; 1477; 2845; 2900; 2917; 3313; 3473; 3696; 4086; 4275; 4378; 4850; 5068; 5081; 5202
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	14	76; 198; 269; 543; 581; 1607; 2402; 3691; 3807; 3915; 4238; 4729; 5199; 5270
TaiI	ACGT!	22	125; 137; 178; 261; 342; 447; 716; 781; 844; 1048; 1135; 1348; 1823; 1828; 2374; 2386; 2429; 2539; 3430; 3617; 4398; 4531
TaqI	T!CGA	16	772; 844; 1117; 1411; 1438; 2460; 3151; 3424; 3580; 3604; 3640; 3802; 3993; 4038; 4293; 5131
TaqII	GACCGANNNNNNNNNNN!	4	1533; 2331; 3348; 4016
TaqII	!NNNNNNNNNTCGGTC	1	4260
TaqII	CACCCANNNNNNNNNNN!	0	
TaqII	!NNNNNNNNNTGGGTG	3	172; 3215; 3807
TasI	!AATT	14	18; 1536; 1644; 1704; 1923; 2061; 2125; 2203; 2229; 2240; 2887; 2959; 3051; 4469
TatI	W!GTACW	6	217; 297; 330; 381; 1039; 1495
TauI	GCSG!C	20	614; 650; 662; 1011; 1960; 2631; 2645; 3083; 3222; 3285; 3380; 3545; 3548; 3787; 3883; 3924; 4052; 4406; 5034; 5189
TfiI	G!AWTC	5	3796; 3930; 4040; 4077; 5255
TliI	C!TCGAG	1	771
TruII	T!TAA	15	7; 2012; 2073; 2194; 2215; 2226; 2238; 2249; 2266; 2364; 2635; 4454; 4468; 4473; 4525
Tru9I	T!TAA	15	7; 2012; 2073; 2194; 2215; 2226; 2238; 2249; 2266; 2364; 2635; 4454; 4468; 4473; 4525
TscAI	CASTGNN!	8	661; 1624; 1811; 2157; 3440; 4550; 4821; 4834
TseI	G!CWGC	24	614; 617; 620; 853; 860; 911; 914; 1072; 1226; 1307; 1809; 2087; 2606; 3271; 3372; 3414; 3455; 3548; 3935; 4388; 4614; 4820; 4823; 4888
TsoI	TARCCANNNNNNNNNNN!	2	2283; 2630
TsoI	!NNNNNNNNNTGGYTA	4	1710; 1786; 2088; 3840
Tsp45I	!GTSAC	8	735; 1001; 1250; 1615; 1821; 2600; 3431; 3737
Tsp509I	!AATT	14	18; 1536; 1644; 1704; 1923; 2061; 2125; 2203; 2229; 2240; 2887; 2959; 3051; 4469
TspDTI	ATGAANNNNNNNNNNN!	8	1317; 1678; 1746; 1873; 1933; 2069; 3370; 4074
TspDTI	!NNNNNNNNNTTCAT	4	26; 3788; 4244; 4451
TspEI	!AATT	14	18; 1536; 1644; 1704; 1923; 2061; 2125; 2203; 2229; 2240; 2887; 2959; 3051; 4469
TspGWI	ACGGANNNNNNNNNNN!	2	1918; 4186

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspGWI	!NNNNNNNNNTCCGT	3	590; 935; 1749
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	8	661; 1624; 1811; 2157; 3440; 4550; 4821; 4834
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3429
Tth111II	CAARCANNNNNNNNNN!	2	813; 4638
Tth111II	!NNNNNNNNNTGYTTG	3	3746; 4606; 4645
UnbI	!GGNCC	12	82; 275; 640; 902; 985; 1239; 2417; 3826; 4271; 4317; 4375; 4408
Van91I	CCANNNN!NTGG	1	680
Vha464I	C!TTAAG	1	2193
VneI	G!TGCAC	1	4915
VpaK11AI	!GGWCC	3	985; 3826; 4271
VpaK11BI	G!GWCC	3	986; 3827; 4272
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	6	1536; 1704; 1923; 2125; 2229; 2240
XbaI	T!CTAGA	1	1965
XceI	RCATG!Y	5	599; 2881; 2953; 3716; 5233
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	771
XhoII	R!GATCY	11	585; 670; 686; 829; 3482; 3728; 4120; 4479; 4491; 4577; 4588
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3133; 4148
XmiI	GT!MKAC	0	
XmnI	GAANN!NNTTC	1	1278
XspI	C!TAG	9	592; 1723; 1966; 2160; 2578; 3134; 4149; 4483; 4736
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2883; 2955; 5286