

## pmKate2-endo vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2151; 2356
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	5	1612; 1756; 2439; 3395; 5184
AatI	AGG!CCT	2	1039; 3189
AatII	GACGT!C	5	125; 178; 261; 447; 1616
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1190
AccII	CG!CG	22	60; 1814; 1883; 1905; 1907; 1912; 1977; 1986; 2256; 2292; 2668; 2688; 2712; 2743; 3434; 3735; 4173; 4257; 4320; 4389; 4662; 5243
AccIII	T!CCGGA	1	1315
Acc16I	TGC!GCA	3	1744; 1828; 3470
Acc36I	ACCTGCNNNN!	3	1748; 3636; 4086
Acc36I	!NNNNNNNNGCAGGT	2	1524; 3255
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	6	465; 664; 724; 2521; 3367; 3402
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	3	1593; 2792; 3981
AccBSI	GAG!CGG	2	2628; 4035
AceIII	CAGCTCNNNNNNN!	1	2324
AceIII	!NNNNNNNNNNGAGCTG	3	552; 610; 1756
AciI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1581; 1591; 1761; 1776; 1812; 1910; 1975; 2683; 2686; 2700; 2790; 3038; 3050; 3059; 3071; 3081; 3092; 3138; 3277; 3340; 3842; 3887; 3953; 3979; 4104; 4107; 4255; 4387; 4694; 4838; 5334
AciI	G!CGG	28	370; 403; 528; 748; 758; 1070; 1112; 1587; 2628; 2655; 2743; 2853; 3434; 3498; 3599; 3602; 3882; 3937; 4035; 4173; 4320; 4460; 4703; 4948; 5069; 5088; 5215; 5243
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	10	1326; 2011; 2020; 3236; 3547; 3793; 4185; 4544; 4642; 4728
AclWI	!NNNNNGATCC	7	580; 1145; 1998; 3612; 4156; 4543; 4640
AcoI	Y!GGCCR	11	1268; 1563; 1588; 1724; 1809; 1820; 1898; 3274; 3448; 3839; 3866
AcsI	R!AATTY	4	1348; 2182; 2286; 2297
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	1120; 3514; 3946
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	1437; 4744
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 1187; 1613; 3368; 4070; 4149
AdeI	CACNNN!GTG	2	1260; 2484
AfaI	GT!AC	10	219; 244; 299; 332; 383; 540; 655; 805; 1057; 3674
AfeI	AGC!GCT	2	596; 1924
AfiI	CCNNNNN!NNGG	23	49; 721; 834; 1000; 1066; 1673; 1818; 1999; 2380; 2706; 3098; 3349; 3893; 4174; 4206; 4338; 4373; 4423; 4455; 4808; 5087; 5253; 5271
AfiIII	C!TTAAG	0	
AfiIII	A!CRYGT	2	2254; 5286
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	7	687; 1137; 2779; 2823; 2833; 3246; 4822
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	18	88; 281; 785; 833; 929; 944; 1073; 1565; 1718; 2902; 2957; 2974; 3753; 4332; 4435; 5125; 5138; 5259
AjuI	GAANNNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNTTC	0	

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AjuI	CCAANNNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AlcI	CACNN!NNGTG	1	613
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	2942; 3014
AlfI	!NNNNNNNNNNGCANNNNNNNTGC	2	2908; 2980
AloI	GAACNNNNNNNTTCNNNNNNNNNNNN!	2	1011; 2450
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	2	979; 2418
AluI	AG!CT	21	566; 624; 651; 797; 1104; 1332; 1338; 1368; 1561; 1770; 2147; 2314; 2571; 2866; 3154; 3474; 3932; 4729; 4986; 5032; 5122
AluBI	AG!CT	21	566; 624; 651; 797; 1104; 1332; 1338; 1368; 1561; 1770; 2147; 2314; 2571; 2866; 3154; 3474; 3932; 4729; 4986; 5032; 5122
AlwI	GGATCNNNN!	10	1326; 2011; 2020; 3236; 3547; 3793; 4185; 4544; 4642; 4728
AlwI	!NNNNNGATCC	7	580; 1145; 1998; 3612; 4156; 4543; 4640
Alw21I	GWGCW!C	6	694; 1334; 1858; 3481; 3671; 4976
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	7	1042; 1231; 1888; 2792; 3210; 4229; 4357
Alw44I	G!TGCAC	2	690; 4972
AlwNI	CAGNNN!CTG	4	1277; 1368; 4469; 4877
Ama87I	C!YCGRG	4	1327; 1666; 1681; 1849
Aor13HI	T!CCGGA	1	1315
Aor51HI	AGC!GCT	2	596; 1924
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	4	1953; 2936; 3008; 4470
ApaLI	G!TGCAC	2	690; 4972
ApeKI	G!CWGC	20	809; 953; 1251; 1745; 1914; 1943; 1955; 2144; 2663; 3328; 3429; 3471; 3512; 3605; 3992; 4445; 4671; 4877; 4880; 4945
ApoI	R!AATTY	4	1348; 2182; 2286; 2297
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	3883
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3677; 4330; 5168
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3767
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	785
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	1403; 3196
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	3938
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	26	586; 975; 1125; 1151; 1319; 1324; 1371; 2004; 2013; 2026; 3206; 3210; 3229; 3540; 3618; 3699; 3708; 3786; 4162; 4178; 4537; 4549; 4627; 4635; 4646; 4721
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3486
Asp700I	GAANN!NNTTC	2	1693; 1793
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3190; 4205
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	31	597; 1745; 1816; 1829; 1883; 1907; 1909; 1914; 1925; 1979; 1988; 2634; 2642; 2668; 2690; 2699; 2712; 2743; 3362; 3370; 3434; 3471; 3737; 3997; 4173; 4259; 4662; 4771; 4945; 5045; 5112
AspS9I	G!GNCC	16	83; 276; 760; 1003; 1095; 1116; 1383; 1677; 1773; 1972; 2475; 3884; 4329; 4375; 4433; 4466
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	4050
AsuC2I	CC!SGG	8	1184; 1603; 1645; 2000; 3372; 3532; 4145; 4909
AsuHPI	GGTGANNNNNNNNN!	7	376; 627; 996; 1426; 1698; 4439; 4555
AsuHPI	!NNNNNNNTCACC	3	885; 2485; 3546
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	4	1327; 1666; 1681; 1849

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AvaII	G!GWCC	4	1383; 1677; 3884; 4329
AviII	TGC!GCA	3	1744; 1828; 3470
AvrII	C!CTAGG	2	3190; 4205
AxyI	CC!TNAGG	3	869; 2848; 4480
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	9	667; 694; 727; 1304; 1487; 1712; 3314; 3407; 4976
BalI	TGG!CCA	4	1270; 1565; 1726; 3450
BamHI	G!GATCC	1	2003
BanI	G!GYRCC	6	465; 664; 724; 2521; 3367; 3402
BanII	GRGCY!C	4	1334; 2559; 3733; 4443
BanIII	AT!CGAT	1	3208
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	1161
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	1129
BasI	CCANNN!NTGG	0	
BauI	C!ACGAG	3	1255; 4086; 5113
BauI	C!TCGTG	2	1105; 3960
BbeI	GGCG!C	1	3371
Bbr7I	GAAGACNNNNNN!	3	916; 1149; 1217
Bbr7I	!NNNNNNNNNGTCTTC	2	1438; 1876
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	3	911; 1144; 1212
BbsI	!NNNNNGTCTTC	2	1443; 1881
BbuI	GCATG!C	3	2938; 3010; 3773
BbvI	GCAGCNNNNNNNN!	9	821; 1263; 1757; 2156; 3441; 3483; 4004; 4457; 4957
BbvI	!NNNNNNNNNNNGCTGC	9	940; 1901; 1930; 2650; 3315; 3499; 3592; 4658; 4864
Bbv12I	GWGCW!C	6	694; 1334; 1858; 3481; 3671; 4976
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	1002; 1720; 2498; 3062; 3588; 4090
BccI	!NNNNNGATGG	5	1411; 1519; 2466; 3246; 3674
BceAI	ACGGCNNNNNNNNNN!	9	822; 966; 1017; 1083; 1824; 1913; 1944; 3794; 4281
BceAI	!NNNNNNNNNNNGCCGT	4	1807; 2509; 3327; 4786
Bcefl	ACGGCNNNNNNNNNN!	9	822; 966; 1017; 1083; 1824; 1913; 1944; 3794; 4281
Bcefl	!NNNNNNNNNNNGCCGT	4	1808; 2510; 3328; 4787
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	1874
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNNTGC	1	1840
BciVI	GTATCCNNNNNN!	3	2797; 3587; 5088
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2025
BcnI	CC!SGG	8	1184; 1603; 1645; 2000; 3372; 3532; 4145; 4909
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNN!	2	2048; 5221
BdaI	!NNNNNNNNNTGANNNNNTCA	2	2014; 5187
BfaI	C!TAG	9	592; 1289; 2016; 2217; 2635; 3191; 4206; 4540; 4793
BfiI	ACTGGGNNNNN!	2	1306; 3317
BfiI	!NNNNCCCAGT	2	289; 3069
BfmI	C!TRYAG	4	1915; 2703; 4830; 5021
BfoI	RGCGC!Y	6	598; 1926; 2635; 2643; 3371; 5046
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	2797; 3587; 5088
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	3	1748; 3636; 4086
BfuAI	!NNNNNNNGCAGGT	2	1524; 3255
BfuCI	!GATC	26	585; 974; 1124; 1150; 1318; 1323; 1370; 2003; 2012; 2025; 3205; 3209; 3228; 3539; 3617; 3698; 3707; 3785; 4161; 4177; 4536; 4548; 4626; 4634; 4645; 4720
BglI	GCCNNNN!NGGC	6	90; 212; 283; 1079; 1093; 3143
BglII	A!GATCT	1	1323

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BisI	GC!NGC	42	759; 810; 954; 1071; 1252; 1588; 1591; 1746; 1812; 1910; 1915; 1944; 1956; 1975; 2145; 2664; 2686; 2700; 3138; 3277; 3329; 3340; 3430; 3435; 3472; 3513; 3600; 3603; 3606; 3842; 3938; 3979; 3993; 4107; 4446; 4461; 4672; 4878; 4881; 4946; 5089; 5244
BlnI	C!CTAGG	2	3190; 4205
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	42	760; 811; 955; 1072; 1253; 1589; 1592; 1747; 1813; 1911; 1916; 1945; 1957; 1976; 2146; 2665; 2687; 2701; 3139; 3278; 3330; 3341; 3431; 3436; 3473; 3514; 3601; 3604; 3607; 3843; 3939; 3980; 3994; 4108; 4447; 4462; 4673; 4879; 4882; 4947; 5090; 5245
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	4	1383; 1677; 3884; 4329
Bme1390I	CC!NGG	26	90; 283; 787; 835; 931; 946; 1075; 1184; 1567; 1603; 1645; 1720; 2000; 2904; 2959; 2976; 3372; 3532; 3755; 4145; 4334; 4437; 4909; 5127; 5140; 5261
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	4	1327; 1666; 1681; 1849
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	16	84; 277; 761; 1004; 1096; 1117; 1384; 1678; 1774; 1973; 2476; 3885; 4330; 4376; 4434; 4467
BmiI	GGN!NCC	23	467; 666; 726; 1117; 1422; 1678; 1679; 1790; 1932; 2005; 2523; 2544; 2556; 2747; 2908; 2980; 3369; 3404; 4252; 4331; 4376; 5219; 5258
BmrI	ACTGGGNNNNN!	2	1306; 3317
BmrI	!NNNNCCCAGT	2	289; 3069
BmrFI	CC!NGG	26	90; 283; 787; 835; 931; 946; 1075; 1184; 1567; 1603; 1645; 1720; 2000; 2904; 2959; 2976; 3372; 3532; 3755; 4145; 4334; 4437; 4909; 5127; 5140; 5261
BmsI	GCATCNNNNN!	9	848; 1838; 1955; 2184; 2947; 3019; 3667; 3731; 4006
BmsI	!NNNNNNNNNGATGC	7	357; 1001; 1169; 3326; 3581; 3797; 5189
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1306; 3317
BmuI	!NNNNCCCAGT	2	289; 3069
BoxI	GACNN!NNGTC	1	1243
BpiI	GAAGACNN!	3	911; 1144; 1212
BpiI	!NNNNNNGTCTTC	2	1443; 1881
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3157; 4056
BpI	!NNNNNNNNNGAGNNNNNCTC	2	3125; 4024
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	1675; 4208
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	928; 4151
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	1	4050
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	3	911; 1144; 1212
BpuAI	!NNNNNNGTCTTC	2	1443; 1881
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	2	4662; 5201
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	4	1159; 1318; 3744; 4903
BpuMI	CC!SGG	8	1184; 1603; 1645; 2000; 3372; 3532; 4145; 4909
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	1042; 1231; 4357
Bsa29I	AT!CGAT	1	3208
BsaAI	YAC!GTR	3	340; 2484; 3672
BsaBI	GATNN!NNATC	2	2030; 3227
BsaHI	GR!CGYC	9	122; 175; 258; 444; 1187; 1613; 3368; 4070; 4149
BsaJI	C!CNNGG	26	360; 611; 698; 833; 834; 929; 1355; 1376; 1682; 1817; 1868; 1999; 2902; 2974; 3097; 3132; 3141; 3190; 3531; 3800; 4205; 4332; 4333; 4435; 4436; 5126
BsaMI	GAATGCN!	1	2119
BsaMI	G!CATTC	1	2212
BsaWI	W!CCGGW	8	600; 1315; 1391; 2009; 3399; 4243; 4933; 5080
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2448
BsaXI	!NNNNNNNGGAGNNNNNNGT	0	

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BsaXI	GGAGNNNNNGTNNNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2418
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	2369; 4276
Bsc4I	CCNNNNN!NNGG	23	49; 721; 834; 1000; 1066; 1673; 1818; 1999; 2380; 2706; 3098; 3349; 3893; 4174; 4206; 4338; 4373; 4423; 4455; 4808; 5087; 5253; 5271
BscAI	GCATCNNNN!	9	847; 1837; 1954; 2183; 2946; 3018; 3666; 3730; 4005
BscAI	!NNNNNNGATGC	7	360; 1004; 1172; 3329; 3584; 3800; 5192
BseI	ACTGGN!	6	1214; 1301; 1406; 3312; 3513; 4759
BseI	C!CAGT	5	295; 2397; 3075; 4871; 4884
Bse8I	GATNN!NNATC	2	2030; 3227
Bse21I	CC!TNAGG	3	869; 2848; 4480
Bse118I	R!CCGGY	5	600; 2585; 3687; 3868; 4151
BseAI	T!CCGGA	1	1315
BseBI	CC!WGG	18	90; 283; 787; 835; 931; 946; 1075; 1567; 1720; 2904; 2959; 2976; 3755; 4334; 4437; 5127; 5140; 5261
BseCI	AT!CGAT	1	3208
BseDI	C!CNNGG	26	360; 611; 698; 833; 834; 929; 1355; 1376; 1682; 1817; 1868; 1999; 2902; 2974; 3097; 3132; 3141; 3190; 3531; 3800; 4205; 4332; 4333; 4435; 4436; 5126
Bse3DI	GCAATGNN!	1	3601
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	6	1530; 1809; 3228; 3685; 3710; 4164
BseGI	!CATCC	8	694; 782; 839; 994; 1661; 1715; 1829; 3054
BseJI	GATNN!NNATC	2	2030; 3227
BseLI	CCNNNNN!NNGG	23	49; 721; 834; 1000; 1066; 1673; 1818; 1999; 2380; 2706; 3098; 3349; 3893; 4174; 4206; 4338; 4373; 4423; 4455; 4808; 5087; 5253; 5271
BseMI	GCAATGNN!	1	3601
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	1	4494
BseMII	!NNNNNNNNCTGAG	6	860; 2839; 3141; 4022; 4594; 5003
BseNI	ACTGGN!	6	1214; 1301; 1406; 3312; 3513; 4759
BseNI	C!CAGT	5	295; 2397; 3075; 4871; 4884
BsePI	G!CGCGC	1	1905
BseRI	GAGGAGNNNNNNNNNN!	2	1393; 3186
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	9	667; 694; 727; 1304; 1487; 1712; 3314; 3407; 4976
BseXI	GCAGCNNNNNNNN!	9	821; 1263; 1757; 2156; 3441; 3483; 4004; 4457; 4957
BseXI	!NNNNNNNNNNNGCTGC	9	940; 1901; 1930; 2650; 3315; 3499; 3592; 4658; 4864
BseX3I	C!GGCCG	3	1588; 1809; 3274
BseYI	C!CCAGC	3	2911; 2983; 4982
BseYI	G!CTGGG	2	1031; 3872
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	22	60; 1814; 1883; 1905; 1907; 1912; 1977; 1986; 2256; 2292; 2668; 2688; 2712; 2743; 3434; 3735; 4173; 4257; 4320; 4389; 4662; 5243
Bsh1285I	CGRY!CG	6	752; 1581; 1591; 1812; 3277; 4952
BshFI	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1565; 1590; 1726; 1774; 1811; 1822; 1900; 1974; 2334; 2476; 3131; 3137; 3146; 3189; 3276; 3450; 3841; 3868; 4377; 4434; 4467; 4812; 5246; 5264; 5275
BshNI	G!GYRCC	6	465; 664; 724; 2521; 3367; 3402
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	3208
BsiEI	CGRY!CG	6	752; 1581; 1591; 1812; 3277; 4952
BsiHKAI	GWGCW!C	6	694; 1334; 1858; 3481; 3671; 4976
BsiHKCI	C!YCGRG	4	1327; 1666; 1681; 1849
BsiSI	C!CGG	24	601; 1184; 1316; 1392; 1603; 1645; 1999; 2010; 2586; 3273; 3350; 3372; 3400; 3531; 3621; 3688; 3869; 4144; 4152; 4244; 4718; 4908; 4934; 5081
BsiWI	C!GTACG	0	
BslI	CCNNNNN!NNGG	23	49; 721; 834; 1000; 1066; 1673; 1818; 1999; 2380; 2706; 3098; 3349; 3893; 4174; 4206; 4338; 4373; 4423; 4455; 4808; 5087; 5253; 5271

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BsIF1	GGGACNNNNNNNNNN!	7	175; 326; 494; 1567; 3519; 4051; 4160
BsIF1	!NNNNNNNNNNNNNGTCCC	6	1663; 1685; 2884; 2956; 3020; 4315
BsmI	GAATGCN!	1	2119
BsmI	G!CATTC	1	2212
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	7	1042; 1231; 1888; 2792; 3210; 4229; 4357
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	1888
BsmFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1567; 3519; 4051; 4160
BsmFI	!NNNNNNNNNNNNNGTCCC	6	1663; 1685; 2884; 2956; 3020; 4315
BsnI	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1565; 1590; 1726; 1774; 1811; 1822; 1900; 1974; 2334; 2476; 3131; 3137; 3146; 3189; 3276; 3450; 3841; 3868; 4377; 4434; 4467; 4812; 5246; 5264; 5275
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	1042; 1231; 4357
BsoBI	C!YCGRG	4	1327; 1666; 1681; 1849
Bsp13I	T!CCGGA	1	1315
Bsp19I	C!CATGG	6	360; 611; 1355; 1817; 3097; 3800
Bsp24I	GACNNNNNNTGGNNNNNNNNNN!	2	289; 4171
Bsp24I	!NNNNNNCCANNNNNGTC	2	4592; 4770
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4624; 4802
Bsp24I	!NNNNNNNGACNNNNNNTGG	2	257; 4139
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4050
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	26	585; 974; 1124; 1150; 1318; 1323; 1370; 2003; 2012; 2025; 3205; 3209; 3228; 3539; 3617; 3698; 3707; 3785; 4161; 4177; 4536; 4548; 4626; 4634; 4645; 4720
Bsp1286I	GDGCH!C	16	667; 694; 727; 1304; 1334; 1487; 1712; 1858; 2559; 3314; 3407; 3481; 3671; 3733; 4443; 4976
Bsp1407I	T!GTACA	1	653
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1581; 1591; 1761; 1776; 1812; 1910; 1975; 2683; 2686; 2700; 2790; 3038; 3050; 3059; 3071; 3081; 3092; 3138; 3277; 3340; 3842; 3887; 3953; 3979; 4104; 4107; 4255; 4387; 4694; 4838; 5334
BspACI	G!CGG	28	370; 403; 528; 748; 758; 1070; 1112; 1587; 2628; 2655; 2743; 2853; 3434; 3498; 3599; 3602; 3882; 3937; 4035; 4173; 4320; 4460; 4703; 4948; 5069; 5088; 5215; 5243
BspCNI	CTCAGNNNNNNNN!	1	4493
BspCNI	!NNNNNNCTGAG	6	861; 2840; 3142; 4023; 4595; 5004
BspDI	AT!CGAT	1	3208
BspD6I	GACTCNNNN!	5	418; 1656; 2441; 4047; 4924
BspD6I	!NNNNNGAGTC	3	883; 2404; 2836
BspEI	T!CCGGA	1	1315
BspFNI	CG!CG	22	60; 1814; 1883; 1905; 1907; 1912; 1977; 1986; 2256; 2292; 2668; 2688; 2712; 2743; 3434; 3735; 4173; 4257; 4320; 4389; 4662; 5243
BspHI	T!CATGA	2	2794; 4566
BspLI	GGN!NCC	23	467; 666; 726; 1117; 1422; 1678; 1679; 1790; 1932; 2005; 2523; 2544; 2556; 2747; 2908; 2980; 3369; 3404; 4252; 4331; 4376; 5219; 5258
BspMI	ACCTGCNNNN!	3	1748; 3636; 4086
BspMI	!NNNNNNNGCAGGT	2	1524; 3255
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	10	1326; 2011; 2020; 3236; 3547; 3793; 4185; 4544; 4642; 4728
BspPI	!NNNNNGATCC	7	580; 1145; 1998; 3612; 4156; 4543; 4640
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3712; 3922
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4050
BspT107I	G!GYRCC	6	465; 664; 724; 2521; 3367; 3402
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	1042; 1231; 4357
BsrI	ACTGNN!	6	1214; 1301; 1406; 3312; 3513; 4759
BsrI	C!CAGT	5	295; 2397; 3075; 4871; 4884

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrBI	CCG!CTC	3	1593; 2792; 3981
BsrBI	GAG!CGG	2	2628; 4035
BsrDI	GCAATGNN!	1	3601
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	5	600; 2585; 3687; 3868; 4151
BsrGI	T!GTACA	1	653
BsrSI	ACTGGN!	6	1214; 1301; 1406; 3312; 3513; 4759
BsrSI	C!CAGT	5	295; 2397; 3075; 4871; 4884
BssAI	R!CCGGY	5	600; 2585; 3687; 3868; 4151
BssECI	C!CNNGG	26	360; 611; 698; 833; 834; 929; 1355; 1376; 1682; 1817; 1868; 1999; 2902; 2974; 3097; 3132; 3141; 3190; 3531; 3800; 4205; 4332; 4333; 4435; 4436; 5126
BssHII	G!CGCGC	1	1905
BssKI	!CCNGG	26	88; 281; 785; 833; 929; 944; 1073; 1182; 1565; 1601; 1643; 1718; 1998; 2902; 2957; 2974; 3370; 3530; 3753; 4143; 4332; 4435; 4907; 5125; 5138; 5259
BssMI	!GATC	26	585; 974; 1124; 1150; 1318; 1323; 1370; 2003; 2012; 2025; 3205; 3209; 3228; 3539; 3617; 3698; 3707; 3785; 4161; 4177; 4536; 4548; 4626; 4634; 4645; 4720
BssNI	GR!CGYC	9	122; 175; 258; 444; 1187; 1613; 3368; 4070; 4149
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1255; 4086; 5113
BssSI	C!TCGTG	2	1105; 3960
BssTII	C!CWWGG	9	360; 611; 1355; 1817; 1868; 3097; 3190; 3800; 4205
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2835; 3712; 3922
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 1187; 1613; 3368; 4070; 4149
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	4	1952; 2935; 3007; 4469
BstAUI	T!GTACA	1	653
BstBI	TT!CGAA	1	4050
Bst2BI	C!ACGAG	3	1255; 4086; 5113
Bst2BI	C!TCGTG	2	1105; 3960
BstBAI	YAC!GTR	3	340; 2484; 3672
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 669; 1491; 2459; 3748; 3864; 3972; 4295; 4786; 5256; 5327
BstC8I	GCN!NGC	37	86; 279; 593; 622; 712; 916; 1441; 1563; 1585; 1776; 1879; 1907; 1990; 2587; 2630; 2644; 2917; 2936; 2989; 3008; 3262; 3448; 3667; 3733; 3739; 3767; 3771; 3816; 3870; 4153; 4340; 4387; 4443; 4465; 4676; 5236; 5273
BstDEI	C!TNAG	8	869; 1166; 2848; 3150; 4031; 4480; 4603; 5012
BstDSI	C!CRYGG	6	360; 611; 1355; 1817; 3097; 3800
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	6	1530; 1809; 3228; 3685; 3710; 4164
BstF5I	!CATCC	8	694; 782; 839; 994; 1661; 1715; 1829; 3054
BstFNI	CG!CG	22	60; 1814; 1883; 1905; 1907; 1912; 1977; 1986; 2256; 2292; 2668; 2688; 2712; 2743; 3434; 3735; 4173; 4257; 4320; 4389; 4662; 5243
BstH2I	RGCGC!Y	6	598; 1926; 2635; 2643; 3371; 5046
BstHHI	GCG!C	31	597; 1745; 1816; 1829; 1883; 1907; 1909; 1914; 1925; 1979; 1988; 2634; 2642; 2668; 2690; 2699; 2712; 2743; 3362; 3370; 3434; 3471; 3737; 3997; 4173; 4259; 4662; 4771; 4945; 5045; 5112
BstKTI	GAT!C	26	588; 977; 1127; 1153; 1321; 1326; 1373; 2006; 2015; 2028; 3208; 3212; 3231; 3542; 3620; 3701; 3710; 3788; 4164; 4180; 4539; 4551; 4629; 4637; 4648; 4723
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	7	1042; 1231; 1888; 2792; 3210; 4229; 4357
BstMBI	!GATC	26	585; 974; 1124; 1150; 1318; 1323; 1370; 2003; 2012; 2025; 3205; 3209; 3228; 3539; 3617; 3698; 3707; 3785; 4161; 4177; 4536; 4548; 4626; 4634; 4645; 4720
BstMCI	CGRY!CG	6	752; 1581; 1591; 1812; 3277; 4952

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstMWI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 648; 1079; 1093; 1906; 1920; 1952; 1971; 1983; 2595; 2625; 2652; 2694; 2935; 3007; 3058; 3137; 3359; 3443; 3466; 3605; 3728; 3811; 4078; 4265; 4469; 4668; 5240
BstNI	CC!WGG	18	90; 283; 787; 835; 931; 946; 1075; 1567; 1720; 2904; 2959; 2976; 3755; 4334; 4437; 5127; 5140; 5261
BstNSI	RCATG!Y	7	642; 1439; 1759; 2938; 3010; 3773; 5290
BstOI	CC!WGG	18	90; 283; 787; 835; 931; 946; 1075; 1567; 1720; 2904; 2959; 2976; 3755; 4334; 4437; 5127; 5140; 5261
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1243
BstSCI	!CCNGG	26	88; 281; 785; 833; 929; 944; 1073; 1182; 1565; 1601; 1643; 1718; 1998; 2902; 2957; 2974; 3370; 3530; 3753; 4143; 4332; 4435; 4907; 5125; 5138; 5259
BstSFI	C!TRYAG	4	1915; 2703; 4830; 5021
BstSLI	GKGCM!C	9	667; 694; 727; 1304; 1487; 1712; 3314; 3407; 4976
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	22	60; 1814; 1883; 1905; 1907; 1912; 1977; 1986; 2256; 2292; 2668; 2688; 2712; 2743; 3434; 3735; 4173; 4257; 4320; 4389; 4662; 5243
Bst2UI	CC!WGG	18	90; 283; 787; 835; 931; 946; 1075; 1567; 1720; 2904; 2959; 2976; 3755; 4334; 4437; 5127; 5140; 5261
BstV1I	GCAGCNNNNNNN!	9	821; 1263; 1757; 2156; 3441; 3483; 4004; 4457; 4957
BstV1I	!NNNNNNNNNNNGCTGC	9	940; 1901; 1930; 2650; 3315; 3499; 3592; 4658; 4864
BstV2I	GAAGACNN!	3	911; 1144; 1212
BstV2I	!NNNNNNGTCTTC	2	1443; 1881
BstXI	CCANNNNN!NTGG	1	1719
BstX2I	R!GATCY	12	585; 1150; 1323; 2003; 2012; 3539; 3785; 4177; 4536; 4548; 4634; 4645
BstYI	R!GATCY	12	585; 1150; 1323; 2003; 2012; 3539; 3785; 4177; 4536; 4548; 4634; 4645
BstZI	C!GGCCG	3	1588; 1809; 3274
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2797; 3587; 5088
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3208
Bsu36I	CC!TNAGG	3	869; 2848; 4480
BsuRI	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1565; 1590; 1726; 1774; 1811; 1822; 1900; 1974; 2334; 2476; 3131; 3137; 3146; 3189; 3276; 3450; 3841; 3868; 4377; 4434; 4467; 4812; 5246; 5264; 5275
BsuTUI	AT!CGAT	1	3208
BtgI	C!CRYGG	6	360; 611; 1355; 1817; 3097; 3800
BtgZI	GCGATGNNNNNNNNNN!	2	2485; 3820
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3639; 3983
BthCI	GCNG!C	42	761; 812; 956; 1073; 1254; 1590; 1593; 1748; 1814; 1912; 1917; 1946; 1958; 1977; 2147; 2666; 2688; 2702; 3140; 3279; 3331; 3342; 3432; 3437; 3474; 3515; 3602; 3605; 3608; 3844; 3940; 3981; 3995; 4109; 4448; 4463; 4674; 4880; 4883; 4948; 5091; 5246
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2207
BtsCI	GGATGNN!	6	1530; 1809; 3228; 3685; 3710; 4164
BtsCI	!CATCC	8	694; 782; 839; 994; 1661; 1715; 1829; 3054
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	1748; 3636; 4086
BveI	!NNNNNNNNGCAGGT	2	1524; 3255
Cac8I	GCN!NGC	37	86; 279; 593; 622; 712; 916; 1441; 1563; 1585; 1776; 1879; 1907; 1990; 2587; 2630; 2644; 2917; 2936; 2989; 3008; 3262; 3448; 3667; 3733; 3739; 3767; 3771; 3816; 3870; 4153; 4340; 4387; 4443; 4465; 4676; 5236; 5273
CaiI	CAGNNN!CTG	4	1277; 1368; 4469; 4877
CciI	T!CATGA	2	2794; 4566
CciNI	GC!GGCCGC	1	1588
CdiI	CATC!G	5	352; 3657; 3662; 3860; 4001



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CdiI	C!GATG	2	2471; 3806
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5240
CdpI	!NNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3029; 3071
CelII	GC!TNAGC	0	
CfoI	GCG!C	31	597; 1745; 1816; 1829; 1883; 1907; 1909; 1914; 1925; 1979; 1988; 2634; 2642; 2668; 2690; 2699; 2712; 2743; 3362; 3370; 3434; 3471; 3737; 3997; 4173; 4259; 4662; 4771; 4945; 5045; 5112
CfrI	Y!GGCCR	11	1268; 1563; 1588; 1724; 1809; 1820; 1898; 3274; 3448; 3839; 3866
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	5	600; 2585; 3687; 3868; 4151
Cfr13I	G!GNCC	16	83; 276; 760; 1003; 1095; 1116; 1383; 1677; 1773; 1972; 2475; 3884; 4329; 4375; 4433; 4466
Cfr42I	CCGC!GG	0	
ChaI	GATC!	26	589; 978; 1128; 1154; 1322; 1327; 1374; 2007; 2016; 2029; 3209; 3213; 3232; 3543; 3621; 3702; 3711; 3789; 4165; 4181; 4540; 4552; 4630; 4638; 4649; 4724
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	706; 3185; 4625; 4725; 4803
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2852; 2947; 4139; 4689; 5244
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2886; 2981; 4173; 4723; 5278
CjeI	!NNNNNNNNCCANNNNNNGT	5	672; 3151; 4591; 4691; 4769
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	2	4625; 4803
CjePI	!NNNNNNNNGANNNNNNNTGG	4	257; 1076; 4139; 4738
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	4	290; 1109; 4172; 4771
CjePI	!NNNNNNNNCCANNNNNNNNTC	2	4592; 4770
Clal	AT!CGAT	1	3208
CpoI	CG!GWCCG	1	3884
CseI	GACGCNNNNN!	3	526; 4078; 4157
CseI	!NNNNNNNNNGCGTC	4	1176; 2701; 4596; 5174
CsiI	A!CCWGGT	1	2957
CspI	CG!GWCCG	1	3884
Csp6I	G!TAC	10	218; 243; 298; 331; 382; 539; 654; 804; 1056; 3673
Csp45I	TT!CGAA	1	4050
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	1	1476
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	1	1511
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	656; 1247; 2648; 4257
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	29	301; 361; 612; 639; 645; 657; 735; 801; 881; 1092; 1356; 1436; 1623; 1756; 1779; 1818; 2795; 2935; 3007; 3098; 3239; 3584; 3770; 3801; 3827; 4183; 4567; 5287; 5338
CviJI	RG!CY	111	42; 84; 93; 277; 566; 607; 624; 651; 714; 761; 790; 797; 875; 941; 953; 1004; 1031; 1039; 1073; 1087; 1096; 1104; 1118; 1228; 1264; 1270; 1332; 1338; 1368; 1423; 1546; 1561; 1565; 1590; 1643; 1726; 1770; 1774; 1811; 1822; 1837; 1900; 1931; 1943; 1974; 2037; 2147; 2314; 2334; 2476; 2557; 2571; 2585; 2866; 2907; 2979; 3102; 3131; 3137; 3146; 3154; 3177; 3189; 3195; 3276; 3293; 3301; 3328; 3353; 3437; 3446; 3450; 3474; 3512; 3588; 3605; 3624; 3687; 3731; 3741; 3758; 3841; 3868; 3872; 3909; 3932; 3948; 4128; 4155; 4216; 4338; 4377; 4434; 4441; 4448; 4467; 4478; 4729; 4758; 4801; 4812; 4877; 4956; 4981; 4986; 5032; 5122; 5220; 5246; 5264; 5275
CviKI-1	RG!CY	111	42; 84; 93; 277; 566; 607; 624; 651; 714; 761; 790; 797; 875; 941; 953; 1004; 1031; 1039; 1073; 1087; 1096; 1104; 1118; 1228; 1264; 1270; 1332; 1338; 1368; 1423; 1546; 1561; 1565; 1590; 1643; 1726; 1770; 1774; 1811; 1822; 1837; 1900; 1931; 1943; 1974; 2037; 2147; 2314; 2334; 2476; 2557; 2571; 2585; 2866; 2907; 2979; 3102; 3131; 3137; 3146; 3154; 3177; 3189; 3195; 3276; 3293; 3301; 3328; 3353; 3437; 3446; 3450; 3474; 3512; 3588; 3605; 3624; 3687; 3731; 3741; 3758; 3841; 3868; 3872; 3909; 3932; 3948; 4128; 4155; 4216; 4338; 4377; 4434; 4441; 4448; 4467; 4478; 4729; 4758; 4801; 4812; 4877; 4956; 4981; 4986; 5032; 5122; 5220; 5246; 5264; 5275
CviQI	G!TAC	10	218; 243; 298; 331; 382; 539; 654; 804; 1056; 3673
DdeI	C!TNAG	8	869; 1166; 2848; 3150; 4031; 4480; 4603; 5012

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DinI	GGC!GCC	1	3369
DpnI	GA!TC	26	587; 976; 1126; 1152; 1320; 1325; 1372; 2005; 2014; 2027; 3207; 3211; 3230; 3541; 3619; 3700; 3709; 3787; 4163; 4179; 4538; 4550; 4628; 4636; 4647; 4722
DpnII	!GATC	26	585; 974; 1124; 1150; 1318; 1323; 1370; 2003; 2012; 2025; 3205; 3209; 3228; 3539; 3617; 3698; 3707; 3785; 4161; 4177; 4536; 4548; 4626; 4634; 4645; 4720
DraI	TTT!AAA	3	2070; 4512; 4531
DraII	RG!GNCCY	3	1383; 1677; 4466
DraIII	CACNNN!GTG	2	1260; 2484
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	3	266; 1484; 4848
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	5	1612; 1756; 2439; 3395; 5184
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	2	1601; 1865
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	5	1612; 1756; 2439; 3395; 5184
EaeI	Y!GGCCR	11	1268; 1563; 1588; 1724; 1809; 1820; 1898; 3274; 3448; 3839; 3866
EagI	C!GGCCG	3	1588; 1809; 3274
Eam1104I	CTCTTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2835; 3712; 3922
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTTCN!	0	
EarI	!NNNNGAAGAG	3	2835; 3712; 3922
EciI	GGCGGANNNNNNNNNNNN!	4	2868; 3897; 5084; 5230
EciI	!NNNNNNNNNTCCGCC	4	496; 3039; 3060; 3081
Ecl136II	GAG!CTC	1	1332
EclXI	C!GGCCG	3	1588; 1809; 3274
Eco24I	GRGCY!C	4	1334; 2559; 3733; 4443
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	3	1042; 1231; 4357
Eco32I	GAT!ATC	2	1344; 1515
Eco47I	G!GWCC	4	1383; 1677; 3884; 4329
Eco47III	AGC!GCT	2	596; 1924
Eco52I	C!GGCCG	3	1588; 1809; 3274
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	1120; 3514; 3946
Eco57I	!NNNNNNNNNNNNNNNCTTCAG	2	1437; 4744
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	869; 2848; 4480
Eco88I	C!YCGRG	4	1327; 1666; 1681; 1849
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	9	360; 611; 1355; 1817; 1868; 3097; 3190; 3800; 4205
Eco147I	AGG!CCT	2	1039; 3189
EcoHI	!CCSGG	8	1182; 1601; 1643; 1998; 3370; 3530; 4143; 4907
EcoICRI	GAG!CTC	1	1332
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	5	1120; 1675; 3514; 3946; 4208
Eco57MI	!NNNNNNNNNNNNNNNCTYCAG	4	928; 1437; 4151; 4744
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	3	1383; 1677; 4466
EcoRI	G!AATTC	1	1348
EcoRII	!CCWGG	18	88; 281; 785; 833; 929; 944; 1073; 1565; 1718; 2902; 2957; 2974; 3753; 4332; 4435; 5125; 5138; 5259
EcoRV	GAT!ATC	2	1344; 1515
EcoT14I	C!CWWGG	9	360; 611; 1355; 1817; 1868; 3097; 3190; 3800; 4205
EcoT22I	ATGCA!T	3	2940; 3012; 5343
EcoT38I	GRGCY!C	4	1334; 2559; 3733; 4443
Eco53kI	GAG!CTC	1	1332
EgeI	GGC!GCC	1	3369
EheI	GGC!GCC	1	3369
ErhI	C!CWWGG	9	360; 611; 1355; 1817; 1868; 3097; 3190; 3800; 4205
EsaBC3I	TC!GA	19	753; 780; 1248; 1329; 1347; 1518; 1851; 1893; 2518; 3209; 3482; 3638; 3662; 3698; 3860; 4051; 4096; 4351; 5189
Esp3I	CGTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Esp3I	!NNNNNGAGACG	1	1888
FaeI	CATG!	29	304; 364; 615; 642; 648; 660; 738; 804; 884; 1095; 1359; 1439; 1626; 1759; 1782; 1821; 2798; 2938; 3010; 3101; 3242; 3587; 3773; 3804; 3830; 4186; 4570; 5290; 5341
FaiI	YA!TR	72	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 640; 646; 658; 736; 802; 882; 900; 1093; 1146; 1196; 1357; 1437; 1447; 1481; 1505; 1624; 1757; 1780; 1819; 1968; 2030; 2040; 2106; 2151; 2356; 2784; 2796; 2927; 2936; 2999; 3008; 3032; 3099; 3123; 3240; 3304; 3585; 3610; 3771; 3802; 3828; 3900; 4116; 4184; 4262; 4314; 4475; 4492; 4494; 4496; 4568; 4846; 5035; 5151; 5224; 5288; 5339
FalI	AAGNNNNCTTNNNNNNNNNNNN!	3	879; 1455; 3708
FalI	!NNNNNNNAAGNNNNCTT	3	847; 1423; 3676
FaqI	GGGACNNNNNNNNNN!	7	175; 326; 494; 1567; 3519; 4051; 4160
FaqI	!NNNNNNNNNNNGTCCC	6	1663; 1685; 2884; 2956; 3020; 4315
FatI	!CATG	29	300; 360; 611; 638; 644; 656; 734; 800; 880; 1091; 1355; 1435; 1622; 1755; 1778; 1817; 2794; 2934; 3006; 3097; 3238; 3583; 3769; 3800; 3826; 4182; 4566; 5286; 5337
FauI	CCCGCNNNN!	11	93; 119; 286; 1068; 1170; 1783; 2690; 3045; 3066; 4262; 4394
FauI	!NNNNNGCGGG	6	1105; 2621; 3491; 4028; 4166; 4313
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	2025
FblI	GT!MKAC	1	1190
FmuI	GGNC!C	16	86; 279; 763; 1006; 1098; 1119; 1386; 1680; 1776; 1975; 2478; 3887; 4332; 4378; 4436; 4469
Fnu4HI	GC!NGC	42	759; 810; 954; 1071; 1252; 1588; 1591; 1746; 1812; 1910; 1915; 1944; 1956; 1975; 2145; 2664; 2686; 2700; 3138; 3277; 3329; 3340; 3430; 3435; 3472; 3513; 3600; 3603; 3606; 3842; 3938; 3979; 3993; 4107; 4446; 4461; 4672; 4878; 4881; 4946; 5089; 5244
FokI	GGATGNNNNNNNN!	6	1537; 1816; 3235; 3692; 3717; 4171
FokI	!NNNNNNNNNNNNCATCC	8	681; 769; 826; 981; 1648; 1702; 1816; 3041
FriOI	GRGCY!C	4	1334; 2559; 3733; 4443
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	3	1744; 1828; 3470
FspAI	RTGC!GCAY	1	1828
FspBI	C!TAG	9	592; 1289; 2016; 2217; 2635; 3191; 4206; 4540; 4793
FspEI	CCNNNNNNNNNNNN!	181	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 681; 711; 728; 742; 775; 789; 807; 831; 846; 876; 909; 936; 951; 970; 1006; 1053; 1072; 1087; 1101; 1132; 1155; 1175; 1196; 1242; 1284; 1300; 1329; 1366; 1389; 1405; 1437; 1483; 1499; 1579; 1594; 1611; 1657; 1678; 1693; 1715; 1732; 1753; 1774; 1788; 1805; 1825; 1846; 1861; 1875; 1914; 1947; 1988; 2002; 2020; 2051; 2090; 2104; 2245; 2340; 2364; 2387; 2410; 2428; 2450; 2471; 2490; 2509; 2538; 2559; 2573; 2599; 2687; 2713; 2762; 2803; 2821; 2860; 2876; 2914; 2971; 2986; 3043; 3063; 3077; 3094; 3108; 3145; 3160; 3203; 3286; 3353; 3384; 3404; 3419; 3464; 3478; 3544; 3558; 3577; 3593; 3634; 3654; 3701; 3751; 3767; 3787; 3812; 3832; 3855; 3882; 3900; 3926; 3966; 3992; 4016; 4072; 4086; 4114; 4157; 4178; 4213; 4257; 4345; 4369; 4391; 4411; 4427; 4448; 4462; 4481; 4565; 4585; 4613; 4628; 4662; 4704; 4731; 4746; 4791; 4815; 4829; 4851; 4877; 4897; 4921; 4947; 4995; 5014; 5033; 5059; 5094; 5139; 5169; 5183; 5234; 5248; 5273; 5289; 5310; 5339
FspEI	!NNNNNNNNNNNNNNNGG	148	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 616; 643; 685; 706; 730; 772; 791; 820; 856; 893; 916; 935; 965; 986; 1013; 1052; 1078; 1097; 1169; 1195; 1243; 1282; 1301; 1342; 1363; 1387; 1412; 1444; 1492; 1511; 1536; 1555; 1588; 1618; 1639; 1659; 1705; 1756; 1786; 1804; 1855; 1882; 1913; 1945; 1984; 2039; 2139; 2208; 2316; 2365; 2387; 2415; 2451; 2496; 2525; 2561; 2580; 2608; 2628; 2691; 2714; 2822; 2854; 2872; 2901; 2944; 2973; 3084; 3113; 3156; 3177; 3205; 3238; 3258; 3283; 3310; 3335; 3357; 3385; 3411; 3432; 3483; 3504; 3522; 3570; 3606; 3662; 3687; 3711; 3740; 3763; 3787; 3813; 3835; 3854; 3879; 3919; 3955; 4020; 4105; 4129; 4158; 4192; 4213; 4233; 4278; 4305; 4324; 4357; 4409; 4440; 4467; 4519; 4617; 4688; 4733; 4794; 4859; 4893; 4919; 4937; 4973; 5043; 5066; 5088; 5112; 5145; 5193; 5228; 5246; 5303

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fsp4HI	GC!NGC	42	759; 810; 954; 1071; 1252; 1588; 1591; 1746; 1812; 1910; 1915; 1944; 1956; 1975; 2145; 2664; 2686; 2700; 3138; 3277; 3329; 3340; 3430; 3435; 3472; 3513; 3600; 3603; 3606; 3842; 3938; 3979; 3993; 4107; 4446; 4461; 4672; 4878; 4881; 4946; 5089; 5244
GdiII	C!GGCCR	4	1588; 1809; 1898; 3274
GdiII	Y!GGCCG	6	1588; 1809; 1820; 3274; 3839; 3866
GlaI	GC!GC	31	596; 1744; 1815; 1828; 1882; 1906; 1908; 1913; 1924; 1978; 1987; 2633; 2641; 2667; 2689; 2698; 2711; 2742; 3361; 3369; 3433; 3470; 3736; 3996; 4172; 4258; 4661; 4770; 4944; 5044; 5111
GluI	GC!NGC	42	759; 810; 954; 1071; 1252; 1588; 1591; 1746; 1812; 1910; 1915; 1944; 1956; 1975; 2145; 2664; 2686; 2700; 3138; 3277; 3329; 3340; 3430; 3435; 3472; 3513; 3600; 3603; 3606; 3842; 3938; 3979; 3993; 4107; 4446; 4461; 4672; 4878; 4881; 4946; 5089; 5244
GsaI	CCCAG!C	3	2915; 2987; 4986
GsaI	GCTGG!G	2	1035; 3876
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	2	1675; 4208
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	928; 4151
HaeI	WGG!CCW	9	1039; 1270; 1565; 1726; 3189; 3450; 4812; 5264; 5275
HaeII	RGCGC!Y	6	598; 1926; 2635; 2643; 3371; 5046
HaeIII	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1565; 1590; 1726; 1774; 1811; 1822; 1900; 1974; 2334; 2476; 3131; 3137; 3146; 3189; 3276; 3450; 3841; 3868; 4377; 4434; 4467; 4812; 5246; 5264; 5275
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2043; 3564
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2009; 3530
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2042; 3563
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2011; 3532
HapII	C!CGG	24	601; 1184; 1316; 1392; 1603; 1645; 1999; 2010; 2586; 3273; 3350; 3372; 3400; 3531; 3621; 3688; 3869; 4144; 4152; 4244; 4718; 4908; 4934; 5081
HgaI	GACGCNNNNN!	3	526; 4078; 4157
HgaI	!NNNNNNNNNNNGCGTC	4	1176; 2701; 4596; 5174
HhaI	GCG!C	31	597; 1745; 1816; 1829; 1883; 1907; 1909; 1914; 1925; 1979; 1988; 2634; 2642; 2668; 2690; 2699; 2712; 2743; 3362; 3370; 3434; 3471; 3737; 3997; 4173; 4259; 4662; 4771; 4945; 5045; 5112
Hin1I	GR!CGYC	9	122; 175; 258; 444; 1187; 1613; 3368; 4070; 4149
Hin1II	CATG!	29	304; 364; 615; 642; 648; 660; 738; 804; 884; 1095; 1359; 1439; 1626; 1759; 1782; 1821; 2798; 2938; 3010; 3101; 3242; 3587; 3773; 3804; 3830; 4186; 4570; 5290; 5341
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1342; 2042; 3563
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	2010; 3531; 3561
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	2042; 3563; 3593
Hin4I	!NNNNNNNNNGAYNNNNNVTC	3	1310; 2010; 3531
Hin6I	G!CGC	31	595; 1743; 1814; 1827; 1881; 1905; 1907; 1912; 1923; 1977; 1986; 2632; 2640; 2666; 2688; 2697; 2710; 2741; 3360; 3368; 3432; 3469; 3735; 3995; 4171; 4257; 4660; 4769; 4943; 5043; 5110
HinP1I	G!CGC	31	595; 1743; 1814; 1827; 1881; 1905; 1907; 1912; 1923; 1977; 1986; 2632; 2640; 2666; 2688; 2697; 2710; 2741; 3360; 3368; 3432; 3469; 3735; 3995; 4171; 4257; 4660; 4769; 4943; 5043; 5110
HincII	GTY!RAC	1	2131
HindII	GTY!RAC	1	2131
HindIII	A!AGCTT	1	1336
HinfI	G!ANTC	15	410; 740; 890; 1217; 1648; 2411; 2433; 2843; 3853; 3987; 4039; 4097; 4134; 4916; 5312
HpaI	GTT!AAC	1	2131
HpaII	C!CGG	24	601; 1184; 1316; 1392; 1603; 1645; 1999; 2010; 2586; 3273; 3350; 3372; 3400; 3531; 3621; 3688; 3869; 4144; 4152; 4244; 4718; 4908; 4934; 5081
HphI	GGTGANNNNNNNN!	7	376; 627; 996; 1426; 1698; 4439; 4555
HphI	!NNNNNNNTCACC	3	885; 2485; 3546
Hpy8I	GTN!NAC	14	201; 539; 577; 672; 692; 987; 1191; 1200; 1638; 2131; 2415; 2432; 2487; 4974

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hpy99I	CGWCG!	11	1249; 1615; 1753; 1986; 3458; 3486; 3780; 3795; 4072; 4457; 5190
Hpy166II	GTN!NAC	14	201; 539; 577; 672; 692; 987; 1191; 1200; 1638; 2131; 2415; 2432; 2487; 4974
Hpy188I	TCN!GA	15	585; 699; 979; 1323; 1377; 2542; 3151; 3335; 3679; 4032; 4133; 4612; 4746; 5099; 5177
Hpy188III	TC!NNGA	25	972; 1176; 1316; 1327; 1893; 2016; 2795; 2847; 3160; 3213; 3386; 3702; 3711; 3794; 3850; 3894; 3984; 4017; 4086; 4567; 4641; 4724; 4822; 4920; 5054
HpyAV	CCTTCNNNNNN!	6	780; 828; 873; 4013; 4120; 4799
HpyAV	!NNNNNGAAGG	10	700; 1072; 1867; 2601; 3496; 4225; 4241; 4424; 4741; 5051
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 669; 1491; 2459; 3748; 3864; 3972; 4295; 4786; 5256; 5327
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 968; 1244; 1613; 2428; 2440; 2483; 2593; 3484; 3671; 4452; 4585
HpyCH4V	TG!CA	23	642; 692; 1014; 1130; 1917; 1946; 1958; 2117; 2144; 2212; 2929; 2938; 3001; 3010; 3125; 3201; 3260; 3419; 3594; 3608; 4678; 4974; 5341
HpyF3I	C!TNAG	8	869; 1166; 2848; 3150; 4031; 4480; 4603; 5012
HpyF10VI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 648; 1079; 1093; 1906; 1920; 1952; 1971; 1983; 2595; 2625; 2652; 2694; 2935; 3007; 3058; 3137; 3359; 3443; 3466; 3605; 3728; 3811; 4078; 4265; 4469; 4668; 5240
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 1187; 1613; 3368; 4070; 4149
Hsp92II	CATG!	29	304; 364; 615; 642; 648; 660; 738; 804; 884; 1095; 1359; 1439; 1626; 1759; 1782; 1821; 2798; 2938; 3010; 3101; 3242; 3587; 3773; 3804; 3830; 4186; 4570; 5290; 5341
HspAI	G!CGC	31	595; 1743; 1814; 1827; 1881; 1905; 1907; 1912; 1923; 1977; 1986; 2632; 2640; 2666; 2688; 2697; 2710; 2741; 3360; 3368; 3432; 3469; 3735; 3995; 4171; 4257; 4660; 4769; 4943; 5043; 5110
KasI	G!GCGCC	1	3367
KfII	GG!GWCCC	1	1677
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1315
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	2025
KspAI	GTT!AAC	1	2131
Kzo9I	!GATC	26	585; 974; 1124; 1150; 1318; 1323; 1370; 2003; 2012; 2025; 3205; 3209; 3228; 3539; 3617; 3698; 3707; 3785; 4161; 4177; 4536; 4548; 4626; 4634; 4645; 4720
LguI	GCTCTTCN!	0	
LguI	!NNNNGAAGAGC	2	3712; 3922
LpnI	RGCIICY	6	596; 1924; 2633; 2641; 3369; 5044
LpnPI	CCDGNNNNNNNNN!	73	102; 295; 614; 742; 799; 847; 881; 943; 958; 1019; 1066; 1087; 1111; 1135; 1197; 1284; 1329; 1399; 1437; 1484; 1579; 1597; 1616; 1658; 1732; 1753; 1948; 2002; 2023; 2105; 2410; 2599; 2822; 2860; 2876; 2916; 2971; 2988; 3088; 3173; 3286; 3363; 3385; 3408; 3544; 3558; 3577; 3634; 3701; 3751; 3767; 3824; 3882; 4091; 4157; 4181; 4257; 4346; 4449; 4482; 4713; 4731; 4877; 4897; 4921; 4947; 4996; 5094; 5139; 5169; 5248; 5273; 5310
LpnPI	!NNNNNNNNNNNNNCHGG	62	75; 268; 552; 586; 772; 820; 916; 1017; 1060; 1169; 1195; 1282; 1301; 1377; 1519; 1547; 1588; 1630; 1705; 1756; 1984; 2451; 2571; 2628; 2691; 2889; 2901; 2961; 2973; 3205; 3250; 3293; 3335; 3357; 3385; 3432; 3494; 3516; 3606; 3673; 3696; 3740; 3835; 3854; 3879; 4028; 4129; 4172; 4229; 4319; 4422; 4449; 4467; 4703; 4740; 4893; 4919; 5059; 5077; 5112; 5193; 5246
Lsp1109I	GCAGCNNNNNNNN!	9	821; 1263; 1757; 2156; 3441; 3483; 4004; 4457; 4957
Lsp1109I	!NNNNNNNNNNNNNGCTGC	9	940; 1901; 1930; 2650; 3315; 3499; 3592; 4658; 4864
LweI	GCATCNNNNN!	9	848; 1838; 1955; 2184; 2947; 3019; 3667; 3731; 4006
LweI	!NNNNNNNNNNGATGC	7	357; 1001; 1169; 3326; 3581; 3797; 5189
MabI	A!CCWGGT	1	2957
MaeI	C!TAG	9	592; 1289; 2016; 2217; 2635; 3191; 4206; 4540; 4793
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 968; 1244; 1613; 2428; 2440; 2483; 2593; 3484; 3671; 4452; 4585
MaeIII	!GTNAC	13	61; 148; 497; 891; 2156; 2657; 2669; 3488; 3794; 4484; 4750; 4866; 4929

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MaiI	GA!TC	26	587; 976; 1126; 1152; 1320; 1325; 1372; 2005; 2014; 2027; 3207; 3211; 3230; 3541; 3619; 3700; 3709; 3787; 4163; 4179; 4538; 4550; 4628; 4636; 4647; 4722
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	3	1593; 2792; 3981
MbiI	GAG!CGG	2	2628; 4035
MboI	!GATC	26	585; 974; 1124; 1150; 1318; 1323; 1370; 2003; 2012; 2025; 3205; 3209; 3228; 3539; 3617; 3698; 3707; 3785; 4161; 4177; 4536; 4548; 4626; 4634; 4645; 4720
MboII	GAAGANNNNNNNNN!	10	916; 1029; 1149; 1217; 1407; 2624; 2852; 3729; 3939; 4558
MboII	!NNNNNNNTCTTC	6	1443; 1881; 4019; 4186; 4386; 4629
McaTI	GCGC!GC	1	1908
MfeI	C!AATTG	1	2118
MflI	R!GATCY	12	585; 1150; 1323; 2003; 2012; 3539; 3785; 4177; 4536; 4548; 4634; 4645
MhlI	GDGCH!C	16	667; 694; 727; 1304; 1334; 1487; 1712; 1858; 2559; 3314; 3407; 3481; 3671; 3733; 4443; 4976
MlsI	TGG!CCA	4	1270; 1565; 1726; 3450
MluI	A!CGCGT	1	2254
MluNI	TGG!CCA	4	1270; 1565; 1726; 3450
MlyI	GAGTCNNNNN!	3	899; 2420; 2852
MlyI	!NNNNNGACTC	5	404; 1642; 2427; 4033; 4910
Mly113I	GG!CGCC	1	3368
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1022; 2461
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4893; 5077
MnII	CCTCNNNNNNN!	14	773; 952; 967; 1050; 1183; 1294; 1858; 2087; 3151; 3969; 4175; 4489; 4859; 5183
MnII	!NNNNNGAGG	29	541; 654; 693; 714; 747; 864; 973; 1029; 1218; 1251; 1371; 1467; 1512; 1563; 1677; 1878; 1963; 2047; 2512; 2843; 3121; 3164; 3179; 3219; 3283; 3419; 3776; 4206; 5109
Mph1103I	ATGCA!T	3	2940; 3012; 5343
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1315
MroNI	G!CCGGC	3	2585; 3868; 4151
MroXI	GAANN!NNTTC	2	1693; 1793
MscI	TGG!CCA	4	1270; 1565; 1726; 3450
MseI	T!TAA	18	7; 629; 854; 1310; 2069; 2130; 2251; 2272; 2283; 2295; 2306; 2323; 2421; 2692; 4511; 4525; 4530; 4582
MslI	CAYNN!NNRTG	7	365; 613; 643; 1621; 1720; 1822; 3805
MspI	C!CGG	24	601; 1184; 1316; 1392; 1603; 1645; 1999; 2010; 2586; 3273; 3350; 3372; 3400; 3531; 3621; 3688; 3869; 4144; 4152; 4244; 4718; 4908; 4934; 5081
Msp20I	TGG!CCA	4	1270; 1565; 1726; 3450
MspA1I	CMG!CKG	6	1063; 1561; 2866; 3474; 4703; 4948
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	274	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; 613; 633; 651; 669; 699; 717; 732; 747; 765; 798; 813; 841; 856; 880; 893; 909; 927; 941; 957; 970; 984; 1005; 1018; 1039; 1058; 1072; 1086; 1100; 1117; 1134; 1155; 1174; 1188; 1215; 1233; 1253; 1267; 1283; 1300; 1315; 1328; 1341; 1359; 1375; 1388; 1404; 1436; 1452; 1470; 1483; 1498; 1523; 1546; 1569; 1596; 1610; 1633; 1656; 1678; 1693; 1714; 1731; 1752; 1768; 1783; 1798; 1812; 1825; 1840; 1861; 1874; 1890; 1905; 1918; 1946; 1971; 1988; 2001; 2022; 2036; 2051; 2075; 2092; 2105; 2146; 2160; 2173; 2191; 2229; 2244; 2262; 2303; 2327; 2347; 2365; 2386; 2409; 2441; 2456; 2478; 2496; 2509; 2530; 2547; 2560; 2573; 2589; 2602; 2632; 2647; 2672; 2690; 2703; 2718; 2742; 2756; 2780; 2805; 2821; 2859; 2875; 2914; 2928; 2942; 2970; 2986; 3000; 3014; 3043; 3056; 3077; 3086; 3108; 3138; 3154; 3172; 3202; 3225; 3249; 3273; 3292; 3320; 3346; 3362; 3375; 3398; 3412; 3432; 3445; 3459; 3478; 3492; 3505; 3521; 3536; 3549; 3565; 3580; 3596; 3621; 3640; 3656; 3669; 3682; 3700; 3714; 3728; 3744; 3766; 3782; 3801; 3823; 3839; 3862; 3881; 3895; 3911; 3925; 3945; 3961; 3974; 3996; 4029; 4043; 4063; 4076; 4090; 4144; 4157; 4180; 4193; 4212; 4229; 4256; 4292; 4325; 4344; 4369; 4390; 4417; 4430; 4447; 4461; 4476; 4492; 4552; 4577; 4593; 4615; 4628; 4642; 4673; 4687; 4712; 4730; 4745; 4758; 4777; 4790; 4805; 4834; 4853; 4871; 4896; 4911; 4930; 4946; 4965; 4983; 4999; 5013; 5032; 5059; 5082; 5104; 5123; 5138; 5151; 5168; 5188; 5215; 5228; 5247; 5272; 5295; 5309; 5322; 5339
MspJI	!NNNNNNNNNNNNYNGG	228	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 598; 616; 643; 673; 697; 715; 739; 758; 780; 820; 841; 867; 887; 916; 958; 992; 1013; 1033; 1060; 1078; 1095; 1113; 1141; 1162; 1181; 1207; 1229; 1252; 1275; 1301; 1321; 1342; 1361; 1378; 1398; 1422; 1440; 1457; 1481; 1504; 1529; 1548; 1570; 1588; 1609; 1630; 1652; 1669; 1693; 1726; 1746; 1765; 1782; 1799; 1820; 1837; 1855; 1877; 1897; 1921; 1945; 1962; 1981; 2002; 2020; 2049; 2078; 2120; 2203; 2241; 2265; 2288; 2317; 2361; 2383; 2415; 2451; 2468; 2489; 2526; 2546; 2563; 2580; 2615; 2633; 2651; 2668; 2692; 2714; 2741; 2769; 2795; 2833; 2854; 2871; 2889; 2912; 2933; 2961; 2984; 3005; 3023; 3044; 3061; 3084; 3108; 3128; 3146; 3168; 3199; 3221; 3247; 3266; 3283; 3311; 3330; 3349; 3367; 3385; 3406; 3428; 3452; 3485; 3505; 3523; 3544; 3570; 3597; 3614; 3631; 3648; 3674; 3696; 3718; 3736; 3756; 3775; 3797; 3835; 3855; 3879; 3899; 3919; 3946; 3970; 4003; 4022; 4050; 4072; 4101; 4129; 4154; 4173; 4192; 4213; 4230; 4247; 4278; 4305; 4325; 4348; 4368; 4405; 4422; 4441; 4467; 4487; 4526; 4553; 4572; 4590; 4627; 4645; 4686; 4704; 4730; 4747; 4779; 4808; 4836; 4857; 4880; 4899; 4920; 4938; 4955; 4973; 4999; 5020; 5040; 5060; 5078; 5099; 5125; 5142; 5161; 5180; 5209; 5228; 5246; 5265; 5283; 5301; 5324
MspR9I	CC!NGG	26	90; 283; 787; 835; 931; 946; 1075; 1184; 1567; 1603; 1645; 1720; 2000; 2904; 2959; 2976; 3372; 3532; 3755; 4145; 4334; 4437; 4909; 5127; 5140; 5261
MssI	GTTT!AAC	0	
MunI	CA!AATTG	1	2118
MvaI	CC!WGG	18	90; 283; 787; 835; 931; 946; 1075; 1567; 1720; 2904; 2959; 2976; 3755; 4334; 4437; 5127; 5140; 5261
Mva1269I	GAATGCN!	1	2119
Mva1269I	G!CATTC	1	2212
MvnI	CG!CG	22	60; 1814; 1883; 1905; 1907; 1912; 1977; 1986; 2256; 2292; 2668; 2688; 2712; 2743; 3434; 3735; 4173; 4257; 4320; 4389; 4662; 5243
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 648; 1079; 1093; 1906; 1920; 1952; 1971; 1983; 2595; 2625; 2652; 2694; 2935; 3007; 3058; 3137; 3359; 3443; 3466; 3605; 3728; 3811; 4078; 4265; 4469; 4668; 5240
NaeI	GCC!GGC	3	2587; 3870; 4153
NarI	GG!CGCC	1	3368
NciI	CC!SGG	8	1184; 1603; 1645; 2000; 3372; 3532; 4145; 4909
NcoI	C!CATGG	6	360; 611; 1355; 1817; 3097; 3800
NdeI	CA!TATG	1	234

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeII	!GATC	26	585; 974; 1124; 1150; 1318; 1323; 1370; 2003; 2012; 2025; 3205; 3209; 3228; 3539; 3617; 3698; 3707; 3785; 4161; 4177; 4536; 4548; 4626; 4634; 4645; 4720
NgoAVIII	GACNNNNNTGANNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	731
NgoAVIII	TCANNNNGTCNNNNNNNNNNNN!	1	767
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	2585; 3868; 4151
NheI	G!CTAGC	1	591
NlaIII	CATG!	29	304; 364; 615; 642; 648; 660; 738; 804; 884; 1095; 1359; 1439; 1626; 1759; 1782; 1821; 2798; 2938; 3010; 3101; 3242; 3587; 3773; 3804; 3830; 4186; 4570; 5290; 5341
NlaIV	GGN!NCC	23	467; 666; 726; 1117; 1422; 1678; 1679; 1790; 1932; 2005; 2523; 2544; 2556; 2747; 2908; 2980; 3369; 3404; 4252; 4331; 4376; 5219; 5258
NlaCI	CATCACNNNNNNNNNNNNNNNN!	3	2200; 2515; 4107
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 991; 1397; 5179
Nli3877I	CYCGR!G	4	1331; 1670; 1685; 1853
NmeAIII	GCCGAGNNNNNNNNNNNNNNNN!	2	3157; 3593
NmeAIII	!NNNNNNNNNNNNNNNNNCTCGGC	2	1007; 3122
NmeDI	RCCGGYNNNNNN!	5	612; 2597; 3699; 3880; 4163
NmeDI	!NNNNNNNNNNNRCCGGY	5	587; 2572; 3674; 3855; 4138
NmuCI	!GTSAC	4	891; 2657; 3488; 3794
NotI	GC!GGCCGC	1	1588
NruI	TCG!CGA	0	
NsbI	TGC!GCA	3	1744; 1828; 3470
NsiI	ATGCA!T	3	2940; 3012; 5343
NspI	RCATG!Y	7	642; 1439; 1759; 2938; 3010; 3773; 5290
NspV	TT!CGAA	1	4050
OliI	CACNN!NNGTG	1	613
PabI	GTA!C	10	220; 245; 300; 333; 384; 541; 656; 806; 1058; 3675
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2938; 3010; 3773
PaeR7I	C!TCGAG	2	1327; 1849
PagI	T!CATGA	2	2794; 4566
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	834; 4333; 4436
PauI	G!CGCGC	1	1905
PceI	AGG!CCT	2	1039; 3189
PciI	A!CATGT	1	5286
PciSI	GCTCTTCN!	0	
PciSI	!NNNNGAAGAGC	2	3712; 3922
PcsI	WCGNNNN!NNNCGW	8	1253; 1847; 3662; 3739; 3982; 4056; 4449; 4967
PctI	GAATGCN!	1	2119
PctI	G!CATTC	1	2212
PdiI	GCC!GGC	3	2587; 3870; 4153
PdmI	GAANN!NNTTC	2	1693; 1793
PfeI	G!AWTC	7	740; 1217; 3853; 3987; 4097; 4134; 5312
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3486
PfIMI	CCANNN!NTGG	0	
PfoI	T!CCNGGA	2	944; 4143
PhoI	GG!CC	35	84; 277; 761; 1004; 1039; 1073; 1096; 1118; 1228; 1270; 1565; 1590; 1726; 1774; 1811; 1822; 1900; 1974; 2334; 2476; 3131; 3137; 3146; 3189; 3276; 3450; 3841; 3868; 4377; 4434; 4467; 4812; 5246; 5264; 5275
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNN!	1	3749
PlaDI	!NNNNNNNNNNNNNNNNNCTGATG	2	3314; 3569
PleI	GAGTCNNNN!	3	898; 2419; 2851
PleI	!NNNNNGACTC	5	404; 1642; 2427; 4033; 4910
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNN!	1	2450



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	4580
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4612
PpiI	!NNNNNNNNGAACNNNNNNCTC	1	2418
PpsI	GAGTCNNNN!	3	898; 2419; 2851
PpsI	!NNNNNGACTC	5	404; 1642; 2427; 4033; 4910
Ppu10I	A!TGCAT	3	2936; 3008; 5339
Ppu21I	YAC!GTR	3	340; 2484; 3672
PpuMI	RG!GWCCY	2	1383; 1677
PscI	A!CATGT	1	5286
PshAI	GACNN!NNGTC	1	1243
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2151; 2356
Psp03I	GGWC!C	4	1386; 1680; 3887; 4332
Psp5II	RG!GWCCY	2	1383; 1677
Psp6I	!CCWGG	18	88; 281; 785; 833; 929; 944; 1073; 1565; 1718; 2902; 2957; 2974; 3753; 4332; 4435; 5125; 5138; 5259
Psp1406I	AA!CGTT	0	
Psp124BI	GAGTC!C	1	1334
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	18	88; 281; 785; 833; 929; 944; 1073; 1565; 1718; 2902; 2957; 2974; 3753; 4332; 4435; 5125; 5138; 5259
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	23	467; 666; 726; 1117; 1422; 1678; 1679; 1790; 1932; 2005; 2523; 2544; 2556; 2747; 2908; 2980; 3369; 3404; 4252; 4331; 4376; 5219; 5258
PspOMI	G!GGCCC	0	
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	3	125; 3098; 4097
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	3500
PspPI	G!GNCC	16	83; 276; 760; 1003; 1095; 1116; 1383; 1677; 1773; 1972; 2475; 3884; 4329; 4375; 4433; 4466
PspPPI	RG!GWCCY	2	1383; 1677
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	2921; 2993; 4499
PspPRI	!NNNNNNNNNNNNNCTGRGG	4	855; 1283; 2834; 4029
PspXI	VC!TCGAGB	1	1849
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	3	1386; 1680; 4469
PstI	CTGCA!G	1	1919
PstNI	CAGNN!CTG	4	1277; 1368; 4469; 4877
PsuI	R!GATCY	12	585; 1150; 1323; 2003; 2012; 3539; 3785; 4177; 4536; 4548; 4634; 4645
PsyI	GACN!NNGTC	1	3486
PteI	G!CGCGC	1	1905
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1561; 2866; 3474
RcaI	T!CATGA	2	2794; 4566
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3883
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	2	1503; 2097
RleAI	!NNNNNNNNNTGTGGG	1	1540
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	1	1659
RruI	TCG!CGA	0	
RsaI	GT!AC	10	219; 244; 299; 332; 383; 540; 655; 805; 1057; 3674
RsaNI	G!TAC	10	218; 243; 298; 331; 382; 539; 654; 804; 1056; 3673
RseI	CAYNN!NNRTG	7	365; 613; 643; 1621; 1720; 1822; 3805
RsrII	CG!GWCCG	1	3884
Rsr2I	CG!GWCCG	1	3884

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SacI	GAGCT!C	1	1334
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	3712; 3922
SaqAI	T!TAA	18	7; 629; 854; 1310; 2069; 2130; 2251; 2272; 2283; 2295; 2306; 2323; 2421; 2692; 4511; 4525; 4530; 4582
SatI	GC!NGC	42	759; 810; 954; 1071; 1252; 1588; 1591; 1746; 1812; 1910; 1915; 1944; 1956; 1975; 2145; 2664; 2686; 2700; 3138; 3277; 3329; 3340; 3430; 3435; 3472; 3513; 3600; 3603; 3606; 3842; 3938; 3979; 3993; 4107; 4446; 4461; 4672; 4878; 4881; 4946; 5089; 5244
Sau96I	G!GNCC	16	83; 276; 760; 1003; 1095; 1116; 1383; 1677; 1773; 1972; 2475; 3884; 4329; 4375; 4433; 4466
Sau3AI	!GATC	26	585; 974; 1124; 1150; 1318; 1323; 1370; 2003; 2012; 2025; 3205; 3209; 3228; 3539; 3617; 3698; 3707; 3785; 4161; 4177; 4536; 4548; 4626; 4634; 4645; 4720
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	899; 2420; 2852
SchI	!NNNNNGACTC	5	404; 1642; 2427; 4033; 4910
SciI	CTC!GAG	2	1329; 1851
ScrFI	CC!NGG	26	90; 283; 787; 835; 931; 946; 1075; 1184; 1567; 1603; 1645; 1720; 2000; 2904; 2959; 2976; 3372; 3532; 3755; 4145; 4334; 4437; 4909; 5127; 5140; 5261
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	9	1041; 1229; 1389; 1593; 1944; 2946; 3018; 3187; 5129
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	1675; 3523; 4008
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	16	667; 694; 727; 1304; 1334; 1487; 1712; 1858; 2559; 3314; 3407; 3481; 3671; 3733; 4443; 4976
SelI	!CGCG	22	58; 1812; 1881; 1903; 1905; 1910; 1975; 1984; 2254; 2290; 2666; 2686; 2710; 2741; 3432; 3733; 4171; 4255; 4318; 4387; 4660; 5241
SetI	ASST!	76	125; 137; 178; 261; 308; 342; 447; 552; 568; 626; 653; 799; 820; 971; 1106; 1124; 1175; 1243; 1247; 1262; 1286; 1334; 1340; 1370; 1388; 1478; 1523; 1538; 1563; 1616; 1688; 1742; 1772; 1850; 1889; 1964; 2058; 2079; 2088; 2100; 2149; 2316; 2431; 2443; 2486; 2523; 2573; 2596; 2720; 2868; 2963; 3156; 3269; 3397; 3476; 3487; 3559; 3630; 3674; 3934; 4080; 4124; 4455; 4486; 4545; 4588; 4731; 4752; 4851; 4988; 5003; 5022; 5034; 5078; 5124; 5175
SexAI	A!CCWGGT	1	2957
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	9	848; 1838; 1955; 2184; 2947; 3019; 3667; 3731; 4006
SfaNI	!NNNNNNNNNGATGC	7	357; 1001; 1169; 3326; 3581; 3797; 5189
SfcI	C!TRYAG	4	1915; 2703; 4830; 5021
SfiI	GGCCNNNN!NGGCC	1	3143
SfoI	GGC!GCC	1	3369
Sfr274I	C!TCGAG	2	1327; 1849
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	1	4050

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	218	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 651; 669; 699; 723; 741; 756; 798; 813; 846; 880; 893; 921; 942; 957; 984; 1018; 1039; 1059; 1072; 1086; 1104; 1117; 1134; 1167; 1188; 1222; 1260; 1283; 1301; 1328; 1341; 1368; 1389; 1404; 1436; 1452; 1470; 1483; 1530; 1546; 1574; 1596; 1614; 1635; 1656; 1678; 1693; 1731; 1752; 1768; 1783; 1798; 1812; 1825; 1846; 1861; 1875; 1890; 1905; 1918; 1947; 1971; 1988; 2001; 2022; 2075; 2104; 2146; 2229; 2267; 2303; 2387; 2409; 2441; 2478; 2496; 2515; 2530; 2572; 2589; 2606; 2641; 2655; 2672; 2694; 2718; 2742; 2807; 2821; 2859; 2875; 2915; 2928; 2947; 2970; 2987; 3000; 3019; 3049; 3070; 3087; 3110; 3145; 3172; 3203; 3225; 3251; 3273; 3292; 3320; 3356; 3375; 3398; 3412; 3432; 3445; 3459; 3478; 3492; 3511; 3543; 3557; 3570; 3596; 3627; 3640; 3657; 3674; 3688; 3705; 3723; 3738; 3766; 3782; 3801; 3823; 3839; 3862; 3881; 3906; 3925; 3945; 3972; 3996; 4029; 4048; 4076; 4090; 4156; 4180; 4195; 4218; 4239; 4256; 4304; 4331; 4345; 4374; 4398; 4431; 4448; 4468; 4481; 4494; 4552; 4579; 4598; 4628; 4653; 4673; 4687; 4712; 4730; 4767; 4805; 4834; 4862; 4876; 4896; 4911; 4932; 4946; 4965; 4983; 4999; 5039; 5059; 5086; 5104; 5125; 5138; 5151; 5168; 5192; 5215; 5247; 5272; 5299; 5321
SgeI	!NNNNNNNNNNNNCNG	190	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 625; 643; 673; 697; 715; 739; 772; 820; 854; 895; 916; 958; 992; 1013; 1033; 1060; 1078; 1099; 1120; 1141; 1162; 1196; 1234; 1257; 1275; 1302; 1321; 1342; 1363; 1388; 1410; 1444; 1504; 1548; 1570; 1588; 1609; 1630; 1652; 1669; 1705; 1726; 1757; 1778; 1799; 1820; 1837; 1855; 1879; 1897; 1921; 1945; 1962; 1981; 2002; 2049; 2078; 2120; 2203; 2241; 2277; 2361; 2383; 2415; 2452; 2470; 2489; 2546; 2563; 2580; 2615; 2633; 2653; 2673; 2692; 2716; 2781; 2833; 2889; 2921; 2944; 2961; 2993; 3023; 3044; 3061; 3084; 3119; 3146; 3177; 3199; 3225; 3247; 3266; 3294; 3330; 3349; 3372; 3393; 3411; 3428; 3452; 3485; 3517; 3544; 3570; 3601; 3631; 3648; 3674; 3697; 3718; 3740; 3760; 3780; 3797; 3836; 3855; 3880; 3899; 3919; 3946; 3970; 4003; 4022; 4050; 4072; 4130; 4154; 4173; 4192; 4213; 4230; 4278; 4305; 4325; 4348; 4372; 4405; 4422; 4442; 4468; 4526; 4553; 4572; 4602; 4627; 4647; 4686; 4704; 4741; 4779; 4808; 4836; 4857; 4885; 4906; 4939; 4957; 5013; 5033; 5060; 5078; 5099; 5125; 5142; 5166; 5189; 5221; 5246; 5273; 5295; 5324
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; 1677; 2515; 4302; 5095
SimI	!GACCC	5	106; 1049; 3796; 4364; 4612
SinI	G!GWCC	4	1383; 1677; 3884; 4329
SlaI	C!TCGAG	2	1327; 1849
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	7	365; 613; 643; 1621; 1720; 1822; 3805
SmiI	C!TYRAG	8	1174; 1327; 1333; 1849; 3759; 4641; 4918; 5180
SmoI	C!TYRAG	8	1174; 1327; 1333; 1849; 3759; 4641; 4918; 5180
SmuI	CCCGCNNNN!	11	93; 119; 286; 1068; 1170; 1783; 2690; 3045; 3066; 4262; 4394
SmuI	!NNNNNNGCGGG	6	1105; 2621; 3491; 4028; 4166; 4313
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2938; 3010; 3773
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	12	18; 1311; 1348; 2118; 2182; 2260; 2286; 2297; 2944; 3016; 3108; 4526
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	1	1383
SseBI	AGG!CCT	2	1039; 3189
SsiI	C!CGC	41	58; 86; 98; 112; 279; 507; 589; 923; 1061; 1163; 1581; 1591; 1761; 1776; 1812; 1910; 1975; 2683; 2686; 2700; 2790; 3038; 3050; 3059; 3071; 3081; 3092; 3138; 3277; 3340; 3842; 3887; 3953; 3979; 4104; 4107; 4255; 4387; 4694; 4838; 5334

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	G!CGG	28	370; 403; 528; 748; 758; 1070; 1112; 1587; 2628; 2655; 2743; 2853; 3434; 3498; 3599; 3602; 3882; 3937; 4035; 4173; 4320; 4460; 4703; 4948; 5069; 5088; 5215; 5243
SspI	AAT!ATT	2	2276; 2829
SspDI	G!GCGCC	1	3367
SspD5I	GGTGANNNNNNNN!	7	376; 627; 996; 1426; 1698; 4439; 4555
SspD5I	!NNNNNNNNNTCACC	3	884; 2484; 3545
SstI	GAGCT!C	1	1334
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	929
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	1	1869
Sth132I	CCCGNNNN!	26	92; 118; 285; 851; 1067; 1169; 1190; 1609; 1651; 1673; 1688; 1782; 1799; 1987; 2567; 2689; 3044; 3065; 3378; 3781; 3920; 3991; 4261; 4393; 4623; 5061
Sth132I	!NNNNNNNNCCGGG	21	15; 407; 470; 900; 1104; 1991; 2568; 2620; 2721; 3448; 3490; 3523; 4027; 4136; 4165; 4312; 4416; 4447; 4900; 4944; 5152
Sth302II	CC!GG	24	602; 1185; 1317; 1393; 1604; 1646; 2000; 2011; 2587; 3274; 3351; 3373; 3401; 3532; 3622; 3689; 3870; 4145; 4153; 4245; 4719; 4909; 4935; 5082
StrI	C!TCGAG	2	1327; 1849
StsI	GGATGNNNNNNNNNN!	6	1538; 1817; 3236; 3693; 3718; 4172
StsI	!NNNNNNNNNNNNNNCATCC	8	680; 768; 825; 980; 1647; 1701; 1815; 3040
StuI	AGG!CCT	2	1039; 3189
StyI	C!CWGGG	9	360; 611; 1355; 1817; 1868; 3097; 3190; 3800; 4205
StyD4I	!CCNGG	26	88; 281; 785; 833; 929; 944; 1073; 1182; 1565; 1601; 1643; 1718; 1998; 2902; 2957; 2974; 3370; 3530; 3753; 4143; 4332; 4435; 4907; 5125; 5138; 5259
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 669; 1491; 2459; 3748; 3864; 3972; 4295; 4786; 5256; 5327
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 971; 1247; 1616; 2431; 2443; 2486; 2596; 3487; 3674; 4455; 4588
TaqI	T!CGA	19	752; 779; 1247; 1328; 1346; 1517; 1850; 1892; 2517; 3208; 3481; 3637; 3661; 3697; 3859; 4050; 4095; 4350; 5188
TaqII	GACCGANNNNNNNNNN!	3	2388; 3405; 4073
TaqII	!NNNNNNNNNTCGGTC	1	4317
TaqII	CACCCANNNNNNNNNN!	2	742; 847
TaqII	!NNNNNNNNNTGGGTG	3	172; 3272; 3864
TasI	!AATT	12	18; 1311; 1348; 2118; 2182; 2260; 2286; 2297; 2944; 3016; 3108; 4526
TatI	W!GTACW	5	217; 297; 330; 381; 653
TauI	GCSG!C	22	761; 1073; 1590; 1593; 1814; 1912; 1977; 2688; 2702; 3140; 3279; 3342; 3437; 3602; 3605; 3844; 3940; 3981; 4109; 4463; 5091; 5246
TfiI	G!AWTC	7	740; 1217; 3853; 3987; 4097; 4134; 5312
ThiI	C!TCGAG	2	1327; 1849
TruII	T!TAA	18	7; 629; 854; 1310; 2069; 2130; 2251; 2272; 2283; 2295; 2306; 2323; 2421; 2692; 4511; 4525; 4530; 4582
Tru9I	T!TAA	18	7; 629; 854; 1310; 2069; 2130; 2251; 2272; 2283; 2295; 2306; 2323; 2421; 2692; 4511; 4525; 4530; 4582
TscAI	CASTGNN!	6	1496; 2214; 3497; 4607; 4878; 4891
TseI	G!CWGC	20	809; 953; 1251; 1745; 1914; 1943; 1955; 2144; 2663; 3328; 3429; 3471; 3512; 3605; 3992; 4445; 4671; 4877; 4880; 4945
TsoI	TARCCANNNNNNNNNN!	3	621; 2340; 2687
TsoI	!NNNNNNNNNTGGYTA	3	778; 2145; 3897
Tsp45I	!GTSAC	4	891; 2657; 3488; 3794
Tsp509I	!AATT	12	18; 1311; 1348; 2118; 2182; 2260; 2286; 2297; 2944; 3016; 3108; 4526
TspDTI	ATGAANNNNNNNNNN!	5	661; 1795; 2126; 3427; 4131
TspDTI	!NNNNNNNNNTTCAT	6	26; 789; 810; 3845; 4301; 4508
TspEI	!AATT	12	18; 1311; 1348; 2118; 2182; 2260; 2286; 2297; 2944; 3016; 3108; 4526
TspGWI	ACGGANNNNNNNNNN!	2	1816; 4243
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	6	1496; 2214; 3497; 4607; 4878; 4891
TstI	CACNNNNNTCCNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TstI	!NNNNNNNGGANNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3486
Tth111II	CAARCANNNNNNNNNN!	1	4695
Tth111III	!NNNNNNNNNTGYTTG	5	1428; 1483; 3803; 4663; 4702
UnbI	!GGNCC	16	82; 275; 759; 1002; 1094; 1115; 1382; 1676; 1772; 1971; 2474; 3883; 4328; 4374; 4432; 4465
Van9I	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	690; 4972
VpaK11AI	!GGWCC	4	1382; 1676; 3883; 4328
VpaK11BI	G!GWCC	4	1383; 1677; 3884; 4329
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	1348; 2182; 2286; 2297
XbaI	T!CTAGA	1	2015
XceI	RCATG!Y	7	642; 1439; 1759; 2938; 3010; 3773; 5290
XcmI	CCANNNNN!NNNTGG	1	1719
XhoI	C!TCGAG	2	1327; 1849
XhoII	R!GATCY	12	585; 1150; 1323; 2003; 2012; 3539; 3785; 4177; 4536; 4548; 4634; 4645
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3190; 4205
XmiI	GT!MKAC	1	1190
XmnI	GAANN!NNTTC	2	1693; 1793
XspI	C!TAG	9	592; 1289; 2016; 2217; 2635; 3191; 4206; 4540; 4793
ZraI	GAC!GTC	5	123; 176; 259; 445; 1614
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	2940; 3012; 5343