

pFusionRed-PDHA1 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2645; 2850
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	1	1103
AasI	GACNNNN!NNGTC	4	1497; 2933; 3889; 5678
AatI	AGG!CCT	2	2232; 3683
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	2383
AccII	CG!CG	16	60; 634; 2511; 2786; 3162; 3182; 3206; 3237; 3928; 4229; 4667; 4751; 4814; 4883; 5156; 5737
AccIII	T!CCGGA	1	1779
Acc16I	TGC!GCA	1	3964
Acc36I	ACCTGCNNNN!	2	4130; 4580
Acc36I	!NNNNNNNNGCAGGT	2	1103; 3749
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	8	465; 1115; 1740; 1857; 1917; 3015; 3861; 3896
AccB7I	CCANNNN!NTGG	2	1750; 2402
AccBSI	CCG!CTC	2	3286; 4475
AccBSI	GAG!CGG	4	1311; 2505; 3122; 4529
AceIII	CAGCTCNNNNNNN!	1	2818
AceIII	!NNNNNNNNNNNGAGCTG	4	552; 1440; 1680; 1803
AciI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 598; 622; 632; 2116; 2254; 2356; 2509; 3177; 3180; 3194; 3284; 3532; 3544; 3553; 3565; 3575; 3586; 3632; 3771; 3834; 4336; 4381; 4447; 4473; 4598; 4601; 4749; 4881; 5188; 5332; 5828
AciI	G!CGG	28	370; 403; 528; 1311; 1951; 2263; 2305; 2505; 3122; 3149; 3237; 3347; 3928; 3992; 4093; 4096; 4376; 4431; 4529; 4667; 4814; 4954; 5197; 5442; 5563; 5582; 5709; 5737
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	10	1064; 1761; 1795; 3730; 4041; 4287; 4679; 5038; 5136; 5222
AclWI	!NNNNNGATCC	8	580; 1665; 1782; 2338; 4106; 4650; 5037; 5134
AcoI	Y!GGCCR	7	1666; 2461; 2506; 3768; 3942; 4333; 4360
AcsI	R!AATTY	5	1003; 1522; 2676; 2780; 2791
AcuI	CTGAAGNNNNNNNNNNNNNNNN!	3	2313; 4008; 4440
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	5238
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	8	122; 175; 258; 444; 2380; 3862; 4564; 4643
AdeI	CACNNN!GTG	2	2453; 2978
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 817; 1511; 1848; 1998; 2250; 4168
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	22	49; 607; 1750; 1914; 2193; 2259; 2402; 2874; 3200; 3592; 3843; 4387; 4668; 4700; 4832; 4867; 4917; 4949; 5302; 5581; 5747; 5765
AfIII	C!TTAAG	1	2744
AfIII	A!CRYGT	2	1066; 5780
AgeI	A!CCGGT	1	1793
AgsI	TTS!AA	9	714; 833; 1731; 1880; 3273; 3317; 3327; 3740; 5316
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	21	88; 281; 774; 913; 1120; 1204; 1352; 1493; 1978; 2122; 2137; 2266; 3396; 3451; 3468; 4247; 4826; 4929; 5619; 5632; 5753
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	3	765; 883; 1806
AlfI	GCANNNNNTGCNNNNNNNNNN!	3	1087; 3436; 3508
AlfI	!NNNNNNNNNGCANNNNNTGC	3	1053; 3402; 3474
AloI	GAACNNNNNTCCNNNNNNNNNN!	1	2944
AloI	!NNNNNNNGGANNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	1	2912
AluI	AG!CT	24	566; 845; 900; 1016; 1224; 1239; 1454; 1694; 1777; 1817; 1844; 1990; 2297; 2641; 2808; 3065; 3360; 3648; 3968; 4426; 5223; 5480; 5526; 5616
AluBI	AG!CT	24	566; 845; 900; 1016; 1224; 1239; 1454; 1694; 1777; 1817; 1844; 1990; 2297; 2641; 2808; 3065; 3360; 3648; 3968; 4426; 5223; 5480; 5526; 5616
AlwI	GGATCNNNN!	10	1064; 1761; 1795; 3730; 4041; 4287; 4679; 5038; 5136; 5222
AlwI	!NNNNNGATCC	8	580; 1665; 1782; 2338; 4106; 4650; 5037; 5134
Alw21I	GWGCW!C	5	772; 1887; 3975; 4165; 5470
Alw26I	GTCTCN!	2	434; 632
Alw26I	!NNNNNGAGAC	7	2235; 2325; 2424; 3286; 3704; 4723; 4851
Alw44I	G!TGCAC	2	1883; 5466
AlwNI	CAGNNN!CTG	2	4963; 5371
Ama87I	C!YCGRG	1	982
Aor13HI	T!CCGGA	1	1779
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	1	1441
ApaBI	GCANNNNN!TGC	4	703; 3430; 3502; 4964
ApaLI	G!TGCAC	2	1883; 5466
ApeKI	G!CWGC	23	1197; 1236; 1314; 1410; 1413; 1454; 1650; 2002; 2146; 2444; 2638; 3157; 3822; 3923; 3965; 4006; 4099; 4486; 4939; 5165; 5371; 5374; 5439
ApoI	R!AATTY	5	1003; 1522; 2676; 2780; 2791
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	4377
ApyPI	!NNNNNNNNNNNNNNNNNGTTCGAT	3	4171; 4824; 5662
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	4261
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	1978
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	1	3690
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	2	633; 1656
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	4432
ArsI	GACNNNNNTTYGNNNNNNNNNN!	1	1742
ArsI	!NNNNNNCRAANNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	1	1710
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	26	586; 840; 1057; 1426; 1671; 1754; 1788; 2318; 2344; 2520; 3700; 3704; 3723; 4034; 4112; 4193; 4202; 4280; 4656; 4672; 5031; 5043; 5121; 5129; 5140; 5215
AsiGI	A!CCGGT	1	1793
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3980
Asp700I	GAANN!NNTTC	1	1522
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3684; 4699
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	25	648; 1112; 1128; 2277; 2484; 3128; 3136; 3162; 3184; 3193; 3206; 3237; 3856; 3864; 3928; 3965; 4231; 4491; 4667; 4753; 5156; 5265; 5439; 5539; 5606
AspS9I	G!GNCC	18	83; 276; 750; 911; 986; 1208; 1438; 1953; 2196; 2288; 2309; 2393; 2969; 4378; 4823; 4869; 4927; 4960
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	1219; 4544
AsuC2I	CC!SGG	8	960; 984; 2029; 2377; 3866; 4026; 4639; 5403
AsuHPI	GGTGANNNNNNNN!	7	376; 1589; 1820; 2189; 2499; 4933; 5049
AsuHPI	!NNNNNNNTCACC	6	726; 764; 971; 2078; 2979; 4040
AsuNHI	G!CTAGC	1	591

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AvaI	C!YCGRG	1	982
AvaII	G!GWCC	3	2393; 4378; 4823
AviII	TGC!GCA	1	3964
AvrII	C!CTAGG	2	3684; 4699
AxyI	CC!TNAGG	3	2062; 3342; 4974
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	1120; 1441; 1860; 1887; 1920; 3808; 3901; 5470
BalI	TGG!CCA	2	2463; 3944
BamHI	G!GATCC	1	1787
BanI	G!GYRCC	8	465; 1115; 1740; 1857; 1917; 3015; 3861; 3896
BanII	GRGCY!C	6	790; 965; 1441; 3053; 4227; 4937
BanIII	AT!CGAT	2	1059; 3702
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	2	1750; 2402
BauI	C!ACGAG	4	1513; 2448; 4580; 5607
BauI	C!TCGTG	2	2298; 4454
BbeI	GGCG!C	1	3865
Bbr7I	GAAGACNNNNNN!	1	2109
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	2104
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	3432; 3504; 4267
BbvI	GCAGCNNNNNNNN!	10	1248; 1326; 2014; 2456; 2650; 3935; 3977; 4498; 4951; 5451
BbvI	!NNNNNNNNNNNGCTGC	11	1184; 1397; 1441; 1637; 2133; 3144; 3809; 3993; 4086; 5152; 5358
Bbv12I	GWGCW!C	5	772; 1887; 3975; 4165; 5470
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	949; 1449; 2992; 3556; 4082; 4584
BccI	!NNNNNGATGG	10	777; 882; 1185; 1362; 1442; 1568; 2484; 2960; 3740; 4168
BceAI	ACGGCNNNNNNNNNN!	8	983; 1681; 2015; 2159; 2210; 2276; 4288; 4775
BceAI	!NNNNNNNNNNNGCCGT	4	609; 3003; 3821; 5280
Bcefl	ACGGCNNNNNNNNNN!	8	983; 1681; 2015; 2159; 2210; 2276; 4288; 4775
Bcefl	!NNNNNNNNNNNGCCGT	4	610; 3004; 3822; 5281
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	1213
BcgI	!NNNNNNNNNNNGCANNNNNTCG	1	1082
BcgI	GCANNNNNNTCGNNNNNNNNNN!	1	1116
BcgI	!NNNNNNNNNNCGANNNNNNTGC	1	1179
BciVI	GTATCCNNNNNN!	3	3291; 4081; 5582
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	8	960; 984; 2029; 2377; 3866; 4026; 4639; 5403
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	5715
BdaI	!NNNNNNNNNTGANNNNNNTCA	1	5681
BfaI	C!TAG	9	592; 1140; 2517; 2711; 3129; 3685; 4700; 5034; 5287
BfiI	ACTGGGNNNNN!	1	3811
BfiI	!NNNNCCCACT	3	289; 1649; 3563
BfmI	C!TRYAG	5	797; 1455; 3197; 5324; 5515
BfoI	RCCGC!Y	7	649; 1129; 2485; 3129; 3137; 3865; 5540
BfrI	C!TTAAG	1	2744
BfuI	GTATCCNNNNNN!	3	3291; 4081; 5582
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4130; 4580
BfuAI	!NNNNNNNNNGCAGGT	2	1103; 3749
BfuCI	!GATC	26	585; 839; 1056; 1425; 1670; 1753; 1787; 2317; 2343; 2519; 3699; 3703; 3722; 4033; 4111; 4192; 4201; 4279; 4655; 4671; 5030; 5042; 5120; 5128; 5139; 5214

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BglI	GCCNNNN!NGGC	6	90; 212; 283; 960; 2272; 3637
BglII	A!GATCT	1	1425
BisI	GC!NGC	41	622; 1198; 1237; 1315; 1411; 1414; 1455; 1651; 1952; 2003; 2147; 2264; 2445; 2509; 2639; 3158; 3180; 3194; 3632; 3771; 3823; 3834; 3924; 3929; 3966; 4007; 4094; 4100; 4336; 4432; 4473; 4487; 4601; 4940; 4955; 5166; 5372; 5375; 5440; 5583; 5738
BlnI	C!CTAGG	2	3684; 4699
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	41	623; 1199; 1238; 1316; 1412; 1415; 1456; 1652; 1953; 2004; 2148; 2265; 2446; 2510; 2640; 3159; 3181; 3195; 3633; 3772; 3824; 3835; 3925; 3930; 3967; 4008; 4095; 4101; 4337; 4433; 4474; 4488; 4602; 4941; 4956; 5167; 5373; 5376; 5441; 5584; 5739
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	2393; 4378; 4823
Bme1390I	CC!NGG	29	90; 283; 776; 915; 960; 984; 1122; 1206; 1354; 1495; 1980; 2029; 2124; 2139; 2268; 2377; 3398; 3453; 3470; 3866; 4026; 4249; 4639; 4828; 4931; 5403; 5621; 5634; 5755
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	1	982
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	18	84; 277; 751; 912; 987; 1209; 1439; 1954; 2197; 2289; 2310; 2394; 2970; 4379; 4824; 4870; 4928; 4961
BmiI	GGN!NCC	22	467; 987; 1117; 1438; 1742; 1789; 1859; 1919; 2310; 3017; 3038; 3050; 3241; 3402; 3474; 3863; 3898; 4746; 4825; 4870; 5713; 5752
BmrI	ACTGGGNNNNN!	1	3811
BmrI	!NNNNCCCAGT	3	289; 1649; 3563
BmrFI	CC!NGG	29	90; 283; 776; 915; 960; 984; 1122; 1206; 1354; 1495; 1980; 2029; 2124; 2139; 2268; 2377; 3398; 3453; 3470; 3866; 4026; 4249; 4639; 4828; 4931; 5403; 5621; 5634; 5755
BmsI	GCATCNNNNN!	10	690; 934; 1108; 2041; 2678; 3441; 3513; 4161; 4225; 4500
BmsI	!NNNNNNNNNGATGC	12	357; 604; 692; 796; 1051; 1637; 2194; 2362; 3820; 4075; 4291; 5683
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	3811
BmuI	!NNNNCCCAGT	3	289; 1649; 3563
BoxI	GACNN!NNGTC	1	2436
BpiI	GAAGACNN!	1	2104
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNCTCNNNNNNNNNNNN!	3	1023; 3651; 4550
BpI	!NNNNNNNCTCAGNNNNNNCTC	3	991; 3619; 4518
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	936; 1516; 4702
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	3	1697; 2121; 4645
Bpu10I	CC!TNAGC	1	1675
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1219; 4544
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	2104
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	2349; 5156; 5695
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	4	1548; 2352; 4238; 5397
BpuMI	CC!SGG	8	960; 984; 2029; 2377; 3866; 4026; 4639; 5403
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	2325; 2424; 4851
Bsa29I	AT!CGAT	2	1059; 3702
BsaAI	YAC!GTR	3	340; 2978; 4166
BsaBI	GATNN!NNATC	2	2524; 3721
BsaHI	GR!CGYC	8	122; 175; 258; 444; 2380; 3862; 4564; 4643
BsaJI	C!CNNGG	26	360; 775; 982; 983; 1120; 1121; 1205; 1353; 1472; 1493; 1663; 1804; 1891; 2122; 3396; 3468; 3591; 3626; 3635; 3684; 4025; 4294; 4699; 4827; 4930; 5620
BsaMI	GAATGCN!	1	2613
BsaMI	G!CATTC	1	2706

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsaWI	W!CCGGW	6	1779; 1793; 3893; 4737; 5427; 5574
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	1725; 2942
BsaXI	!NNNNNNNGGAGNNNNNGT	1	1099
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	1129
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	1695; 2912
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	2863; 4770
Bsc4I	CCNNNNN!NNGG	22	49; 607; 1750; 1914; 2193; 2259; 2402; 2874; 3200; 3592; 3843; 4387; 4668; 4700; 4832; 4867; 4917; 4949; 5302; 5581; 5747; 5765
BscAI	GCATCNNNN!	10	689; 933; 1107; 2040; 2677; 3440; 3512; 4160; 4224; 4499
BscAI	!NNNNNNGATGC	12	360; 607; 695; 799; 1054; 1640; 2197; 2365; 3823; 4078; 4294; 5686
BseI	ACTGGN!	5	2407; 2480; 3806; 4007; 5253
BseI	C!CAGT	7	295; 1594; 1655; 2891; 3569; 5365; 5378
Bse8I	GATN!NNATC	2	2524; 3721
Bse2II	CC!TNAGG	3	2062; 3342; 4974
Bse118I	R!CCGGY	8	659; 736; 921; 1793; 3079; 4181; 4362; 4645
BseAI	T!CCGGA	1	1779
BseBI	CC!WGG	21	90; 283; 776; 915; 1122; 1206; 1354; 1495; 1980; 2124; 2139; 2268; 3398; 3453; 3470; 4249; 4828; 4931; 5621; 5634; 5755
BseCI	AT!CGAT	2	1059; 3702
BseDI	C!CNNGG	26	360; 775; 982; 983; 1120; 1121; 1205; 1353; 1472; 1493; 1663; 1804; 1891; 2122; 3396; 3468; 3591; 3626; 3635; 3684; 4025; 4294; 4699; 4827; 4930; 5620
Bse3DI	GCAATGNN!	2	1100; 4095
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	9	788; 808; 1373; 1579; 1652; 3722; 4179; 4204; 4658
BseGI	!CATCC	6	681; 1441; 1887; 1975; 2032; 3548
BseJI	GATN!NNATC	2	2524; 3721
BseLI	CCNNNNN!NNGG	22	49; 607; 1750; 1914; 2193; 2259; 2402; 2874; 3200; 3592; 3843; 4387; 4668; 4700; 4832; 4867; 4917; 4949; 5302; 5581; 5747; 5765
BseMI	GCAATGNN!	2	1100; 4095
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	666; 4988
BseMII	!NNNNNNNNCTGAG	8	1350; 1666; 2053; 3333; 3635; 4516; 5088; 5497
BseNI	ACTGGN!	5	2407; 2480; 3806; 4007; 5253
BseNI	C!CAGT	7	295; 1594; 1655; 2891; 3569; 5365; 5378
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	3680
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGC!C	8	1120; 1441; 1860; 1887; 1920; 3808; 3901; 5470
BseXI	GCAGCNNNNNNNN!	10	1248; 1326; 2014; 2456; 2650; 3935; 3977; 4498; 4951; 5451
BseXI	!NNNNNNNNNNNGTGC	11	1184; 1397; 1441; 1637; 2133; 3144; 3809; 3993; 4086; 5152; 5358
BseX3I	C!GGCCG	3	1666; 2506; 3768
BseYI	C!CCAGC	4	2186; 3405; 3477; 5476
BseYI	G!CTGGG	4	1128; 1694; 2224; 4366
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	16	60; 634; 2511; 2786; 3162; 3182; 3206; 3237; 3928; 4229; 4667; 4751; 4814; 4883; 5156; 5737
Bsh1285I	CGRY!CG	5	1669; 1798; 2509; 3771; 5446
BshFI	GG!CC	35	84; 277; 751; 913; 921; 988; 1210; 1439; 1668; 1954; 2197; 2232; 2266; 2289; 2311; 2421; 2463; 2508; 2828; 2970; 3625; 3631; 3640; 3683; 3770; 3944; 4335; 4362; 4871; 4928; 4961; 5306; 5740; 5758; 5769
BshNI	G!GYRCC	8	465; 1115; 1740; 1857; 1917; 3015; 3861; 3896
BshTI	A!CCGGT	1	1793
BshVI	AT!CGAT	2	1059; 3702
BsiEI	CGRY!CG	5	1669; 1798; 2509; 3771; 5446
BsiHKAI	GWGCW!C	5	772; 1887; 3975; 4165; 5470
BsiHKCI	C!YCGRG	1	982
BsiSI	C!CGG	25	660; 737; 922; 959; 983; 1780; 1794; 2028; 2377; 3080; 3767; 3844; 3866; 3894; 4025; 4115; 4182; 4363; 4638; 4646; 4738; 5212; 5402; 5428; 5575

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	22	49; 607; 1750; 1914; 2193; 2259; 2402; 2874; 3200; 3592; 3843; 4387; 4668; 4700; 4832; 4867; 4917; 4949; 5302; 5581; 5747; 5765
BsIF1	GGGACNNNNNNNNNN!	6	175; 326; 494; 4013; 4545; 4654
BsIF1	!NNNNNNNNNNNNNGTCCC	4	3378; 3450; 3514; 4809
BsmI	GAATGCN!	1	2613
BsmI	G!CATTC	1	2706
BsmAI	GTCTCN!	2	434; 632
BsmAI	!NNNNNGAGAC	7	2235; 2325; 2424; 3286; 3704; 4723; 4851
BsmBI	CGTCTCN!	1	632
BsmBI	!NNNNNGAGACG	1	2235
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4013; 4545; 4654
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3378; 3450; 3514; 4809
BsnI	GG!CC	35	84; 277; 751; 913; 921; 988; 1210; 1439; 1668; 1954; 2197; 2232; 2266; 2289; 2311; 2421; 2463; 2508; 2828; 2970; 3625; 3631; 3640; 3683; 3770; 3944; 4335; 4362; 4871; 4928; 4961; 5306; 5740; 5758; 5769
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	2325; 2424; 4851
BsoBI	C!YCGRG	1	982
Bsp13I	T!CCGGA	1	1779
Bsp19I	C!CATGG	4	360; 1804; 3591; 4294
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	3	289; 1201; 4665
Bsp24I	!NNNNNNCCANNNNNGTC	2	5086; 5264
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	5118; 5296
Bsp24I	!NNNNNNNGACNNNNNTGG	3	257; 1169; 4633
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1219; 4544
Bsp120I	G!GGCCC	1	1437
Bsp143I	!GATC	26	585; 839; 1056; 1425; 1670; 1753; 1787; 2317; 2343; 2519; 3699; 3703; 3722; 4033; 4111; 4192; 4201; 4279; 4655; 4671; 5030; 5042; 5120; 5128; 5139; 5214
Bsp1286I	GDGCH!C	16	772; 790; 965; 1120; 1441; 1860; 1887; 1920; 3053; 3808; 3901; 3975; 4165; 4227; 4937; 5470
Bsp1407I	T!GTACA	1	1846
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 598; 622; 632; 2116; 2254; 2356; 2509; 3177; 3180; 3194; 3284; 3532; 3544; 3553; 3565; 3575; 3586; 3632; 3771; 3834; 4336; 4381; 4447; 4473; 4598; 4601; 4749; 4881; 5188; 5332; 5828
BspACI	G!CGG	28	370; 403; 528; 1311; 1951; 2263; 2305; 2505; 3122; 3149; 3237; 3347; 3928; 3992; 4093; 4096; 4376; 4431; 4529; 4667; 4814; 4954; 5197; 5442; 5563; 5582; 5709; 5737
BspCNI	CTCAGNNNNNNNN!	2	665; 4987
BspCNI	!NNNNNNNCTGAG	8	1351; 1667; 2054; 3334; 3636; 4517; 5089; 5498
BspDI	AT!CGAT	2	1059; 3702
BspD6I	GACTCNNNN!	5	418; 2521; 2935; 4541; 5418
BspD6I	!NNNNNGAGTC	4	1491; 2076; 2898; 3330
BspEI	T!CCGGA	1	1779
BspFNI	CG!CG	16	60; 634; 2511; 2786; 3162; 3182; 3206; 3237; 3928; 4229; 4667; 4751; 4814; 4883; 5156; 5737
BspHI	T!CATGA	2	3288; 5060
BspLI	GGN!NCC	22	467; 987; 1117; 1438; 1742; 1789; 1859; 1919; 2310; 3017; 3038; 3050; 3241; 3402; 3474; 3863; 3898; 4746; 4825; 4870; 5713; 5752
BspMI	ACCTGCNNNN!	2	4130; 4580
BspMI	!NNNNNNNGCAGGT	2	1103; 3749
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	10	1064; 1761; 1795; 3730; 4041; 4287; 4679; 5038; 5136; 5222
BspPI	!NNNNNGATCC	8	580; 1665; 1782; 2338; 4106; 4650; 5037; 5134
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	1684; 4206; 4416
BspTI	C!TTAAG	1	2744
BspT104I	TT!CGAA	2	1219; 4544
BspT107I	G!GYRCC	8	465; 1115; 1740; 1857; 1917; 3015; 3861; 3896
BspTNI	GGTCTCN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspTNI	!NNNNNGAGACC	3	2325; 2424; 4851
BsrI	ACTGGN!	5	2407; 2480; 3806; 4007; 5253
BsrI	C!CAGT	7	295; 1594; 1655; 2891; 3569; 5365; 5378
BsrBI	CCG!CTC	2	3286; 4475
BsrBI	GAG!CGG	4	1311; 2505; 3122; 4529
BsrDI	GCAATGNN!	2	1100; 4095
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	8	659; 736; 921; 1793; 3079; 4181; 4362; 4645
BsrGI	T!GTACA	1	1846
BsrSI	ACTGGN!	5	2407; 2480; 3806; 4007; 5253
BsrSI	C!CAGT	7	295; 1594; 1655; 2891; 3569; 5365; 5378
BssAI	R!CCGGY	8	659; 736; 921; 1793; 3079; 4181; 4362; 4645
BssECI	C!CNNGG	26	360; 775; 982; 983; 1120; 1121; 1205; 1353; 1472; 1493; 1663; 1804; 1891; 2122; 3396; 3468; 3591; 3626; 3635; 3684; 4025; 4294; 4699; 4827; 4930; 5620
BssHII	G!CGCGC	0	
BssKI	!CCNGG	29	88; 281; 774; 913; 958; 982; 1120; 1204; 1352; 1493; 1978; 2027; 2122; 2137; 2266; 2375; 3396; 3451; 3468; 3864; 4024; 4247; 4637; 4826; 4929; 5401; 5619; 5632; 5753
BssMI	!GATC	26	585; 839; 1056; 1425; 1670; 1753; 1787; 2317; 2343; 2519; 3699; 3703; 3722; 4033; 4111; 4192; 4201; 4279; 4655; 4671; 5030; 5042; 5120; 5128; 5139; 5214
BssNI	GR!CGYC	8	122; 175; 258; 444; 2380; 3862; 4564; 4643
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	4	1513; 2448; 4580; 5607
BssSI	C!TCGTG	2	2298; 4454
BssTII	C!CWVGG	6	360; 1804; 3591; 3684; 4294; 4699
Bst6I	CTCTCN!	0	
Bst6I	!NNNNGAAGAG	4	1684; 3329; 4206; 4416
Bst98I	C!TTAAG	1	2744
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 2380; 3862; 4564; 4643
BstAFI	C!TTAAG	1	2744
BstAPI	GCANNNN!NTGC	4	702; 3429; 3501; 4963
BstAUI	T!GTACA	1	1846
BstBI	TT!CGAA	2	1219; 4544
Bst2BI	C!ACGAG	4	1513; 2448; 4580; 5607
Bst2BI	C!TCGTG	2	2298; 4454
BstBAI	YAC!GTR	3	340; 2978; 4166
Bst4CI	ACN!GT	19	76; 198; 269; 543; 581; 767; 815; 1467; 1482; 1509; 1862; 2953; 4242; 4358; 4466; 4789; 5280; 5750; 5821
BstC8I	GCN!NGC	37	86; 279; 593; 619; 636; 661; 665; 902; 923; 1319; 1815; 1905; 2109; 3081; 3124; 3138; 3411; 3430; 3483; 3502; 3756; 3942; 4161; 4227; 4233; 4261; 4265; 4310; 4364; 4647; 4834; 4881; 4937; 4959; 5170; 5730; 5767
BstDEI	C!TNAG	10	652; 1359; 1675; 2062; 3342; 3644; 4525; 4974; 5097; 5506
BstDSI	C!CRYGG	6	360; 1472; 1663; 1804; 3591; 4294
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	9	788; 808; 1373; 1579; 1652; 3722; 4179; 4204; 4658
BstF5I	!CATCC	6	681; 1441; 1887; 1975; 2032; 3548
BstFNI	CG!CG	16	60; 634; 2511; 2786; 3162; 3182; 3206; 3237; 3928; 4229; 4667; 4751; 4814; 4883; 5156; 5737
BstH2I	RGCGC!Y	7	649; 1129; 2485; 3129; 3137; 3865; 5540
BstHHI	GCG!C	25	648; 1112; 1128; 2277; 2484; 3128; 3136; 3162; 3184; 3193; 3206; 3237; 3856; 3864; 3928; 3965; 4231; 4491; 4667; 4753; 5156; 5265; 5439; 5539; 5606
BstKTI	GAT!C	26	588; 842; 1059; 1428; 1673; 1756; 1790; 2320; 2346; 2522; 3702; 3706; 3725; 4036; 4114; 4195; 4204; 4282; 4658; 4674; 5033; 5045; 5123; 5131; 5142; 5217
BstMAI	GTCTCN!	2	434; 632
BstMAI	!NNNNNGAGAC	7	2235; 2325; 2424; 3286; 3704; 4723; 4851
BstMBI	!GATC	26	585; 839; 1056; 1425; 1670; 1753; 1787; 2317; 2343; 2519; 3699; 3703; 3722; 4033; 4111; 4192; 4201; 4279; 4655; 4671; 5030; 5042; 5120; 5128; 5139; 5214
BstMCI	CGRY!CG	5	1669; 1798; 2509; 3771; 5446

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; 597; 702; 910; 960; 1134; 1659; 1841; 2272; 3089; 3119; 3146; 3188; 3429; 3501; 3552; 3631; 3853; 3937; 3960; 4099; 4222; 4305; 4572; 4759; 4963; 5162; 5734
BstNI	CC!WGG	21	90; 283; 776; 915; 1122; 1206; 1354; 1495; 1980; 2124; 2139; 2268; 3398; 3453; 3470; 4249; 4828; 4931; 5621; 5634; 5755
BstNSI	RCATG!Y	7	1070; 1835; 2281; 3432; 3504; 4267; 5784
BstOI	CC!WGG	21	90; 283; 776; 915; 1122; 1206; 1354; 1495; 1980; 2124; 2139; 2268; 3398; 3453; 3470; 4249; 4828; 4931; 5621; 5634; 5755
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	2436
BstSCI	!CCNGG	29	88; 281; 774; 913; 958; 982; 1120; 1204; 1352; 1493; 1978; 2027; 2122; 2137; 2266; 2375; 3396; 3451; 3468; 3864; 4024; 4247; 4637; 4826; 4929; 5401; 5619; 5632; 5753
BstSFI	C!TRYAG	5	797; 1455; 3197; 5324; 5515
BstSLI	GKGCM!C	8	1120; 1441; 1860; 1887; 1920; 3808; 3901; 5470
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	16	60; 634; 2511; 2786; 3162; 3182; 3206; 3237; 3928; 4229; 4667; 4751; 4814; 4883; 5156; 5737
Bst2UI	CC!WGG	21	90; 283; 776; 915; 1122; 1206; 1354; 1495; 1980; 2124; 2139; 2268; 3398; 3453; 3470; 4249; 4828; 4931; 5621; 5634; 5755
BstVII	GCAGCNNNNNNN!	10	1248; 1326; 2014; 2456; 2650; 3935; 3977; 4498; 4951; 5451
BstV1I	!NNNNNNNNNNNGCTGC	11	1184; 1397; 1441; 1637; 2133; 3144; 3809; 3993; 4086; 5152; 5358
BstV2I	GAAGACNN!	1	2104
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	1	1448
BstX2I	R!GATCY	11	585; 1425; 1787; 2343; 4033; 4279; 4671; 5030; 5042; 5128; 5139
BstYI	R!GATCY	11	585; 1425; 1787; 2343; 4033; 4279; 4671; 5030; 5042; 5128; 5139
BstZI	C!GGCCG	3	1666; 2506; 3768
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3291; 4081; 5582
BsuI	!NNNNNNGGATAC	0	
Bsu15I	AT!CGAT	2	1059; 3702
Bsu36I	CC!TNAGG	3	2062; 3342; 4974
BsuRI	GG!CC	35	84; 277; 751; 913; 921; 988; 1210; 1439; 1668; 1954; 2197; 2232; 2266; 2289; 2311; 2421; 2463; 2508; 2828; 2970; 3625; 3631; 3640; 3683; 3770; 3944; 4335; 4362; 4871; 4928; 4961; 5306; 5740; 5758; 5769
BsuTUI	AT!CGAT	2	1059; 3702
BtgI	C!CRYGG	6	360; 1472; 1663; 1804; 3591; 4294
BtgZI	GCGATGNNNNNNNNN!	3	1204; 2979; 4314
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 4133; 4477
BthCI	GCNG!C	41	624; 1200; 1239; 1317; 1413; 1416; 1457; 1653; 1954; 2005; 2149; 2266; 2447; 2511; 2641; 3160; 3182; 3196; 3634; 3773; 3825; 3836; 3926; 3931; 3968; 4009; 4096; 4102; 4338; 4434; 4475; 4489; 4603; 4942; 4957; 5168; 5374; 5377; 5442; 5585; 5740
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2701
BtsCI	GGATGNN!	9	788; 808; 1373; 1579; 1652; 3722; 4179; 4204; 4658
BtsCI	!CATCC	6	681; 1441; 1887; 1975; 2032; 3548
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4130; 4580
BveI	!NNNNNNNNGCAGGT	2	1103; 3749
Cac8I	GCN!NGC	37	86; 279; 593; 619; 636; 661; 665; 902; 923; 1319; 1815; 1905; 2109; 3081; 3124; 3138; 3411; 3430; 3483; 3502; 3756; 3942; 4161; 4227; 4233; 4261; 4265; 4310; 4364; 4647; 4834; 4881; 4937; 4959; 5170; 5730; 5767
CaiI	CAGNNN!CTG	2	4963; 5371
CciI	T!CATGA	2	3288; 5060
CciNI	GC!GGCCGC	1	2506
CdiI	CATC!G	6	352; 1103; 4151; 4156; 4354; 4495

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CdiI	C!GATG	6	1060; 1190; 2245; 2426; 2965; 4300
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5734
CdpI	!NNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3523; 3565
CelII	GC!TNAGC	0	
CfoI	GCG!C	25	648; 1112; 1128; 2277; 2484; 3128; 3136; 3162; 3184; 3193; 3206; 3237; 3856; 3864; 3928; 3965; 4231; 4491; 4667; 4753; 5156; 5265; 5439; 5539; 5606
CfrI	Y!GGCCR	7	1666; 2461; 2506; 3768; 3942; 4333; 4360
Cfr9I	C!CCGGG	1	982
Cfr10I	R!CCGGY	8	659; 736; 921; 1793; 3079; 4181; 4362; 4645
Cfr13I	G!GNCC	18	83; 276; 750; 911; 986; 1208; 1438; 1953; 2196; 2288; 2309; 2393; 2969; 4378; 4823; 4869; 4927; 4960
Cfr42I	CCGC!GG	0	
ChaI	GATC!	26	589; 843; 1060; 1429; 1674; 1757; 1791; 2321; 2347; 2523; 3703; 3707; 3726; 4037; 4115; 4196; 4205; 4283; 4659; 4675; 5034; 5046; 5124; 5132; 5143; 5218
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	1899; 3679; 5119; 5219; 5297
CjeI	!NNNNNNNNNACNNNNNTGG	9	64; 257; 808; 1169; 3346; 3441; 4633; 5183; 5738
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	9	98; 291; 842; 1203; 3380; 3475; 4667; 5217; 5772
CjeI	!NNNNNNNNCCANNNNNNGT	5	1865; 3645; 5085; 5185; 5263
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	5	959; 1688; 1728; 5119; 5297
CjePI	!NNNNNNNGANNNNNNNTGG	6	257; 1169; 1352; 1478; 4633; 5232
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	6	290; 1202; 1385; 1511; 4666; 5265
CjePI	!NNNNNNNCCANNNNNNTC	5	926; 1655; 1695; 5086; 5264
Clai	AT!CGAT	2	1059; 3702
CpoI	CG!GWCCG	1	4378
CseI	GACGCNNNNN!	3	526; 4572; 4651
CseI	!NNNNNNNNNGCGTC	5	1376; 2369; 3195; 5090; 5668
CsiI	A!CCWGGT	1	3451
CspI	CG!GWCCG	1	4378
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 816; 1510; 1847; 1997; 2249; 4167
Csp45I	TT!CGAA	2	1219; 4544
CspAI	A!CCGGT	1	1793
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	6	1055; 1660; 1849; 2440; 3142; 4751
CstMI	!NNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	27	301; 361; 605; 1067; 1232; 1805; 1832; 1838; 1850; 1928; 1994; 2074; 2278; 2285; 3289; 3429; 3501; 3592; 3733; 4078; 4264; 4295; 4321; 4677; 5061; 5781; 5832
CviJI	RG!CY	118	42; 84; 93; 277; 566; 659; 740; 751; 788; 845; 900; 913; 921; 954; 963; 970; 988; 1016; 1143; 1210; 1224; 1239; 1317; 1358; 1439; 1454; 1668; 1679; 1694; 1699; 1777; 1817; 1844; 1907; 1954; 1983; 1990; 2068; 2134; 2146; 2190; 2197; 2224; 2232; 2266; 2289; 2297; 2311; 2421; 2457; 2463; 2508; 2531; 2641; 2808; 2828; 2970; 3051; 3065; 3079; 3360; 3401; 3473; 3596; 3625; 3631; 3640; 3648; 3671; 3683; 3689; 3770; 3787; 3795; 3822; 3847; 3931; 3940; 3944; 3968; 4006; 4082; 4099; 4118; 4181; 4225; 4235; 4252; 4335; 4362; 4366; 4403; 4426; 4442; 4622; 4649; 4710; 4832; 4871; 4928; 4935; 4942; 4961; 4972; 5223; 5252; 5295; 5306; 5371; 5450; 5475; 5480; 5526; 5616; 5714; 5740; 5758; 5769
CviKI-1	RG!CY	118	42; 84; 93; 277; 566; 659; 740; 751; 788; 845; 900; 913; 921; 954; 963; 970; 988; 1016; 1143; 1210; 1224; 1239; 1317; 1358; 1439; 1454; 1668; 1679; 1694; 1699; 1777; 1817; 1844; 1907; 1954; 1983; 1990; 2068; 2134; 2146; 2190; 2197; 2224; 2232; 2266; 2289; 2297; 2311; 2421; 2457; 2463; 2508; 2531; 2641; 2808; 2828; 2970; 3051; 3065; 3079; 3360; 3401; 3473; 3596; 3625; 3631; 3640; 3648; 3671; 3683; 3689; 3770; 3787; 3795; 3822; 3847; 3931; 3940; 3944; 3968; 4006; 4082; 4099; 4118; 4181; 4225; 4235; 4252; 4335; 4362; 4366; 4403; 4426; 4442; 4622; 4649; 4710; 4832; 4871; 4928; 4935; 4942; 4961; 4972; 5223; 5252; 5295; 5306; 5371; 5450; 5475; 5480; 5526; 5616; 5714; 5740; 5758; 5769
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 816; 1510; 1847; 1997; 2249; 4167

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DdeI	C!TNAG	10	652; 1359; 1675; 2062; 3342; 3644; 4525; 4974; 5097; 5506
DinI	GGC!GCC	1	3863
DpnI	GA!TC	26	587; 841; 1058; 1427; 1672; 1755; 1789; 2319; 2345; 2521; 3701; 3705; 3724; 4035; 4113; 4194; 4203; 4281; 4657; 4673; 5032; 5044; 5122; 5130; 5141; 5216
DpnII	!GATC	26	585; 839; 1056; 1425; 1670; 1753; 1787; 2317; 2343; 2519; 3699; 3703; 3722; 4033; 4111; 4192; 4201; 4279; 4655; 4671; 5030; 5042; 5120; 5128; 5139; 5214
DraI	TTT!AAA	3	2564; 5006; 5025
DraII	RG!GNCCY	4	750; 986; 1437; 4960
DraIII	CACNNN!GTG	2	2453; 2978
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	5	266; 1102; 1591; 2044; 5342
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTTG	0	
DrdI	GACNNN!NNGTC	4	1497; 2933; 3889; 5678
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	1497; 2933; 3889; 5678
EaeI	Y!GGCCR	7	1666; 2461; 2506; 3768; 3942; 4333; 4360
EagI	C!GGCCG	3	1666; 2506; 3768
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	4	1684; 3329; 4206; 4416
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	4	1684; 3329; 4206; 4416
EciI	GGCGGANNNNNNNNNNNN!	4	3362; 4391; 5578; 5724
EciI	!NNNNNNNNNTCCGCC	4	496; 3533; 3554; 3575
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	3	1666; 2506; 3768
Eco24I	GRGCY!C	6	790; 965; 1441; 3053; 4227; 4937
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	3	2325; 2424; 4851
Eco32I	GAT!ATC	1	1379
Eco47I	G!GWCC	3	2393; 4378; 4823
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	3	1666; 2506; 3768
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	2313; 4008; 4440
Eco57I	!NNNNNNNNNNNNNNNCTTCAG	1	5238
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	2062; 3342; 4974
Eco88I	C!YCGRG	1	982
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	6	360; 1804; 3591; 3684; 4294; 4699
Eco147I	AGG!CCT	2	2232; 3683
EcoHI	!CCSGG	8	958; 982; 2027; 2375; 3864; 4024; 4637; 5401
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	6	936; 1516; 2313; 4008; 4440; 4702
Eco57MI	!NNNNNNNNNNNNNNNCTYCAG	4	1697; 2121; 4645; 5238
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	4	750; 986; 1437; 4960
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	21	88; 281; 774; 913; 1120; 1204; 1352; 1493; 1978; 2122; 2137; 2266; 3396; 3451; 3468; 4247; 4826; 4929; 5619; 5632; 5753
EcoRV	GAT!ATC	1	1379
EcoT14I	C!CWWGG	6	360; 1804; 3591; 3684; 4294; 4699
EcoT22I	ATGCA!T	3	3434; 3506; 5837
EcoT38I	GRGCY!C	6	790; 965; 1441; 3053; 4227; 4937
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	1	3863
EheI	GGC!GCC	1	3863
ErhI	C!CWWGG	6	360; 1804; 3591; 3684; 4294; 4699
EsaBC3I	TC!GA	16	1060; 1220; 1946; 1973; 2441; 3012; 3703; 3976; 4132; 4156; 4192; 4354; 4545; 4590; 4845; 5683

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Esp3I	CGTCTCN!	1	632
Esp3I	!NNNNNGAGACG	1	2235
FaeI	CATG!	27	304; 364; 608; 1070; 1235; 1808; 1835; 1841; 1853; 1931; 1997; 2077; 2281; 2288; 3292; 3432; 3504; 3595; 3736; 4081; 4267; 4298; 4324; 4680; 5064; 5784; 5835
FaiI	YA!TR	72	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 606; 850; 1068; 1072; 1153; 1186; 1233; 1285; 1485; 1557; 1806; 1833; 1839; 1851; 1929; 1995; 2075; 2093; 2279; 2286; 2339; 2524; 2534; 2600; 2645; 2850; 3278; 3290; 3421; 3430; 3493; 3502; 3526; 3593; 3617; 3734; 3798; 4079; 4104; 4265; 4296; 4322; 4394; 4610; 4678; 4756; 4808; 4969; 4986; 4988; 4990; 5062; 5340; 5529; 5645; 5718; 5782; 5833
FalI	AAGNNNNCTTNNNNNNNNNN!	2	2072; 4202
FalI	!NNNNNNNAAGNNNNCTT	2	2040; 4170
FaqI	GGGACNNNNNNNN!	6	175; 326; 494; 4013; 4545; 4654
FaqI	!NNNNNNNNNNNGTCCC	4	3378; 3450; 3514; 4809
FatI	!CATG	27	300; 360; 604; 1066; 1231; 1804; 1831; 1837; 1849; 1927; 1993; 2073; 2277; 2284; 3288; 3428; 3500; 3591; 3732; 4077; 4263; 4294; 4320; 4676; 5060; 5780; 5831
FauI	CCCGCNNNN!	11	93; 119; 286; 639; 2261; 2363; 3184; 3539; 3560; 4756; 4888
FauI	!NNNNNGCGGG	6	2298; 3115; 3985; 4522; 4660; 4807
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	2383
FmuI	GGNC!C	18	86; 279; 753; 914; 989; 1211; 1441; 1956; 2199; 2291; 2312; 2396; 2972; 4381; 4826; 4872; 4930; 4963
Fnu4HI	GC!NGC	41	622; 1198; 1237; 1315; 1411; 1414; 1455; 1651; 1952; 2003; 2147; 2264; 2445; 2509; 2639; 3158; 3180; 3194; 3632; 3771; 3823; 3834; 3924; 3929; 3966; 4007; 4094; 4100; 4336; 4432; 4473; 4487; 4601; 4940; 4955; 5166; 5372; 5375; 5440; 5583; 5738
FokI	GGATGNNNNNNNN!	9	795; 815; 1380; 1586; 1659; 3729; 4186; 4211; 4665
FokI	!NNNNNNNNNNNNCATCC	6	668; 1428; 1874; 1962; 2019; 3535
FriOI	GRGCY!C	6	790; 965; 1441; 3053; 4227; 4937
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3964
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	9	592; 1140; 2517; 2711; 3129; 3685; 4700; 5034; 5287
FspEI	CCNNNNNNNNNN!	191	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 611; 635; 673; 698; 744; 765; 788; 834; 927; 945; 968; 995; 1011; 1088; 1132; 1157; 1188; 1218; 1267; 1331; 1366; 1395; 1430; 1453; 1479; 1506; 1521; 1563; 1607; 1667; 1682; 1696; 1716; 1734; 1757; 1793; 1807; 1849; 1874; 1904; 1921; 1935; 1968; 1982; 2000; 2024; 2038; 2069; 2102; 2129; 2144; 2163; 2199; 2246; 2265; 2280; 2303; 2325; 2340; 2360; 2379; 2409; 2435; 2477; 2522; 2545; 2584; 2598; 2739; 2834; 2858; 2881; 2904; 2922; 2944; 2965; 2984; 3003; 3032; 3053; 3067; 3093; 3181; 3207; 3256; 3297; 3315; 3354; 3370; 3408; 3465; 3480; 3537; 3557; 3571; 3588; 3602; 3639; 3654; 3697; 3780; 3847; 3878; 3898; 3913; 3958; 3972; 4038; 4052; 4071; 4087; 4128; 4148; 4195; 4245; 4261; 4281; 4306; 4326; 4349; 4376; 4394; 4420; 4460; 4486; 4510; 4566; 4580; 4608; 4651; 4672; 4707; 4751; 4839; 4863; 4885; 4905; 4921; 4942; 4956; 4975; 5059; 5079; 5107; 5122; 5156; 5198; 5225; 5240; 5285; 5309; 5323; 5345; 5371; 5391; 5415; 5441; 5489; 5508; 5527; 5553; 5588; 5633; 5663; 5677; 5728; 5742; 5767; 5783; 5804; 5833

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	!NNNNNNNNNNNNNNNNNGG	166	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 593; 628; 660; 722; 761; 785; 810; 853; 874; 894; 944; 968; 1006; 1030; 1072; 1090; 1108; 1141; 1171; 1191; 1218; 1270; 1296; 1324; 1350; 1380; 1414; 1434; 1459; 1480; 1512; 1551; 1584; 1608; 1629; 1650; 1671; 1723; 1765; 1791; 1809; 1836; 1878; 1899; 1923; 1965; 1984; 2013; 2049; 2086; 2109; 2128; 2151; 2179; 2206; 2245; 2271; 2290; 2362; 2388; 2436; 2461; 2479; 2533; 2633; 2702; 2732; 2810; 2859; 2881; 2909; 2945; 2990; 3019; 3055; 3074; 3102; 3122; 3185; 3208; 3316; 3348; 3366; 3395; 3438; 3467; 3578; 3607; 3650; 3671; 3699; 3732; 3752; 3777; 3804; 3829; 3851; 3879; 3905; 3926; 3977; 3998; 4016; 4064; 4100; 4156; 4181; 4205; 4234; 4257; 4281; 4307; 4329; 4348; 4373; 4413; 4449; 4514; 4599; 4623; 4652; 4686; 4707; 4727; 4772; 4799; 4818; 4851; 4903; 4934; 4961; 5013; 5111; 5182; 5227; 5288; 5353; 5387; 5413; 5431; 5467; 5537; 5560; 5582; 5606; 5639; 5687; 5722; 5740; 5797
Fsp4HI	GC!NGC	41	622; 1198; 1237; 1315; 1411; 1414; 1455; 1651; 1952; 2003; 2147; 2264; 2445; 2509; 2639; 3158; 3180; 3194; 3632; 3771; 3823; 3834; 3924; 3929; 3966; 4007; 4094; 4100; 4336; 4432; 4473; 4487; 4601; 4940; 4955; 5166; 5372; 5375; 5440; 5583; 5738
GdiII	C!GGCCR	3	1666; 2506; 3768
GdiII	Y!GGCCG	5	1666; 2506; 3768; 4333; 4360
GlaI	GC!GC	25	647; 1111; 1127; 2276; 2483; 3127; 3135; 3161; 3183; 3192; 3205; 3236; 3855; 3863; 3927; 3964; 4230; 4490; 4666; 4752; 5155; 5264; 5438; 5538; 5605
Glul	GC!NGC	41	622; 1198; 1237; 1315; 1411; 1414; 1455; 1651; 1952; 2003; 2147; 2264; 2445; 2509; 2639; 3158; 3180; 3194; 3632; 3771; 3823; 3834; 3924; 3929; 3966; 4007; 4094; 4100; 4336; 4432; 4473; 4487; 4601; 4940; 4955; 5166; 5372; 5375; 5440; 5583; 5738
GsaI	CCCAG!C	4	2190; 3409; 3481; 5480
GsaI	GCTGG!G	4	1132; 1698; 2228; 4370
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	936; 1516; 4702
GsuI	!NNNNNNNNNNNNNNNNCTCCAG	3	1697; 2121; 4645
HaeI	WGG!CCW	7	2232; 2463; 3683; 3944; 5306; 5758; 5769
HaeII	RGCGC!Y	7	649; 1129; 2485; 3129; 3137; 3865; 5540
HaeIII	GG!CC	35	84; 277; 751; 913; 921; 988; 1210; 1439; 1668; 1954; 2197; 2232; 2266; 2289; 2311; 2421; 2463; 2508; 2828; 2970; 3625; 3631; 3640; 3683; 3770; 3944; 4335; 4362; 4871; 4928; 4961; 5306; 5740; 5758; 5769
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	2537; 4058
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2503; 4024
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	2536; 4057
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2505; 4026
HapII	C!CGG	25	660; 737; 922; 959; 983; 1780; 1794; 2028; 2377; 3080; 3767; 3844; 3866; 3894; 4025; 4115; 4182; 4363; 4638; 4646; 4738; 5212; 5402; 5428; 5575
HgaI	GACGCNNNNN!	3	526; 4572; 4651
HgaI	!NNNNNNNNNGCGTC	5	1376; 2369; 3195; 5090; 5668
HhaI	GCG!C	25	648; 1112; 1128; 2277; 2484; 3128; 3136; 3162; 3184; 3193; 3206; 3237; 3856; 3864; 3928; 3965; 4231; 4491; 4667; 4753; 5156; 5265; 5439; 5539; 5606
HinI	GR!CGYC	8	122; 175; 258; 444; 2380; 3862; 4564; 4643
Hin1II	CATG!	27	304; 364; 608; 1070; 1235; 1808; 1835; 1841; 1853; 1931; 1997; 2077; 2281; 2288; 3292; 3432; 3504; 3595; 3736; 4081; 4267; 4298; 4324; 4680; 5064; 5784; 5835
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	2	2536; 4057
Hin4I	!NNNNNNNNGABNNNNNRTC	3	2504; 4025; 4055
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	3	2536; 4057; 4087
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	2504; 4025
Hin6I	G!CGC	25	646; 1110; 1126; 2275; 2482; 3126; 3134; 3160; 3182; 3191; 3204; 3235; 3854; 3862; 3926; 3963; 4229; 4489; 4665; 4751; 5154; 5263; 5437; 5537; 5604
HinP1I	G!CGC	25	646; 1110; 1126; 2275; 2482; 3126; 3134; 3160; 3182; 3191; 3204; 3235; 3854; 3862; 3926; 3963; 4229; 4489; 4665; 4751; 5154; 5263; 5437; 5537; 5604
HincII	GTY!RAC	1	2625
HindII	GTY!RAC	1	2625

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HindIII	A!AGCTT	2	898; 1222
HinfI	G!ANTC	16	410; 1498; 1933; 2083; 2410; 2513; 2905; 2927; 3337; 4347; 4481; 4533; 4591; 4628; 5410; 5806
HpaI	GTT!AAC	1	2625
HpaII	C!CGG	25	660; 737; 922; 959; 983; 1780; 1794; 2028; 2377; 3080; 3767; 3844; 3866; 3894; 4025; 4115; 4182; 4363; 4638; 4646; 4738; 5212; 5402; 5428; 5575
HphI	GGTGANNNNNNNN!	7	376; 1589; 1820; 2189; 2499; 4933; 5049
HphI	!NNNNNNNTCACC	6	726; 764; 971; 2078; 2979; 4040
Hpy8I	GTN!NAC	15	201; 539; 577; 1512; 1580; 1865; 1885; 2180; 2384; 2393; 2625; 2909; 2926; 2981; 5468
Hpy99I	CGWCG!	10	1947; 2427; 2442; 3952; 3980; 4274; 4289; 4566; 4951; 5684
Hpy166II	GTN!NAC	15	201; 539; 577; 1512; 1580; 1865; 1885; 2180; 2384; 2393; 2625; 2909; 2926; 2981; 5468
Hpy188I	TCN!GA	15	585; 655; 999; 1392; 1892; 3036; 3645; 3829; 4173; 4526; 4627; 5106; 5240; 5593; 5671
Hpy188III	TC!NNGA	26	894; 1445; 1527; 1674; 1780; 2369; 2517; 3289; 3341; 3654; 3707; 3880; 4196; 4205; 4288; 4344; 4388; 4478; 4511; 4580; 5061; 5135; 5218; 5316; 5414; 5548
HpyAV	CCTTCNNNNNN!	7	741; 1973; 2021; 2066; 4507; 4614; 5293
HpyAV	!NNNNNGAAGG	12	741; 1427; 1628; 1893; 2265; 3095; 3990; 4719; 4735; 4918; 5235; 5545
HpyCH4III	ACN!GT	19	76; 198; 269; 543; 581; 767; 815; 1467; 1482; 1509; 1862; 2953; 4242; 4358; 4466; 4789; 5280; 5750; 5821
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 1296; 2161; 2389; 2437; 2922; 2934; 2977; 3087; 3978; 4165; 4946; 5079
HpyCH4V	TG!CA	23	696; 809; 1064; 1457; 1885; 2207; 2323; 2611; 2638; 2706; 3423; 3432; 3495; 3504; 3619; 3695; 3754; 3913; 4088; 4102; 5172; 5468; 5835
HpyF3I	C!TNAG	10	652; 1359; 1675; 2062; 3342; 3644; 4525; 4974; 5097; 5506
HpyF10VI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 597; 702; 910; 960; 1134; 1659; 1841; 2272; 3089; 3119; 3146; 3188; 3429; 3501; 3552; 3631; 3853; 3937; 3960; 4099; 4222; 4305; 4572; 4759; 4963; 5162; 5734
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 2380; 3862; 4564; 4643
Hsp92II	CATG!	27	304; 364; 608; 1070; 1235; 1808; 1835; 1841; 1853; 1931; 1997; 2077; 2281; 2288; 3292; 3432; 3504; 3595; 3736; 4081; 4267; 4298; 4324; 4680; 5064; 5784; 5835
HspAI	G!CGC	25	646; 1110; 1126; 2275; 2482; 3126; 3134; 3160; 3182; 3191; 3204; 3235; 3854; 3862; 3926; 3963; 4229; 4489; 4665; 4751; 5154; 5263; 5437; 5537; 5604
KasI	G!GCGCC	1	3861
KfiI	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1779
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	2625
Kzo9I	!GATC	26	585; 839; 1056; 1425; 1670; 1753; 1787; 2317; 2343; 2519; 3699; 3703; 3722; 4033; 4111; 4192; 4201; 4279; 4655; 4671; 5030; 5042; 5120; 5128; 5139; 5214
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	3	1684; 4206; 4416
LpnI	RGC!GCY	7	647; 1127; 2483; 3127; 3135; 3863; 5538
LpnPI	CCDGNNNNNNNNNN!	80	102; 295; 673; 750; 769; 788; 927; 972; 996; 1134; 1157; 1188; 1218; 1331; 1366; 1395; 1458; 1507; 1607; 1668; 1687; 1727; 1793; 1807; 1935; 1992; 2041; 2074; 2136; 2151; 2200; 2280; 2304; 2328; 2390; 2477; 2599; 2904; 3093; 3316; 3354; 3370; 3410; 3465; 3482; 3582; 3667; 3780; 3857; 3879; 3902; 4038; 4052; 4071; 4128; 4195; 4245; 4261; 4318; 4376; 4585; 4651; 4675; 4751; 4840; 4943; 4976; 5207; 5225; 5371; 5391; 5415; 5441; 5490; 5588; 5633; 5663; 5742; 5767; 5804
LpnPI	!NNNNNNNNNNNNNNCHGG	71	75; 268; 552; 628; 660; 722; 761; 785; 879; 900; 944; 968; 1006; 1098; 1191; 1339; 1414; 1480; 1512; 1556; 1680; 1765; 1965; 2013; 2109; 2210; 2253; 2362; 2388; 2461; 2945; 3065; 3122; 3185; 3383; 3395; 3455; 3467; 3699; 3744; 3787; 3829; 3851; 3879; 3926; 3988; 4010; 4100; 4167; 4190; 4234; 4329; 4348; 4373; 4522; 4623; 4666; 4723; 4813; 4916; 4943; 4961; 5197; 5234; 5387; 5413; 5553; 5571; 5606; 5687; 5740

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Lsp1109I	GCAGCNNNNNNNN!	10	1248; 1326; 2014; 2456; 2650; 3935; 3977; 4498; 4951; 5451
Lsp1109I	!NNNNNNNNNNNGCTGC	11	1184; 1397; 1441; 1637; 2133; 3144; 3809; 3993; 4086; 5152; 5358
LweI	GCATCNNNNN!	10	690; 934; 1108; 2041; 2678; 3441; 3513; 4161; 4225; 4500
LweI	!NNNNNNNNNGATGC	12	357; 604; 692; 796; 1051; 1637; 2194; 2362; 3820; 4075; 4291; 5683
MabI	A!CCWGGT	1	3451
MaeI	C!TAG	9	592; 1140; 2517; 2711; 3129; 3685; 4700; 5034; 5287
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 1296; 2161; 2389; 2437; 2922; 2934; 2977; 3087; 3978; 4165; 4946; 5079
MaeIII	!GTNAC	21	61; 148; 497; 726; 758; 876; 1467; 1488; 1503; 1545; 2084; 2280; 2650; 3151; 3163; 3982; 4288; 4978; 5244; 5360; 5423
MalI	GA!TC	26	587; 841; 1058; 1427; 1672; 1755; 1789; 2319; 2345; 2521; 3701; 3705; 3724; 4035; 4113; 4194; 4203; 4281; 4657; 4673; 5032; 5044; 5122; 5130; 5141; 5216
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGC	0	
MbiI	CCG!CTC	2	3286; 4475
MbiI	GAG!CGG	4	1311; 2505; 3122; 4529
MboI	!GATC	26	585; 839; 1056; 1425; 1670; 1753; 1787; 2317; 2343; 2519; 3699; 3703; 3722; 4033; 4111; 4192; 4201; 4279; 4655; 4671; 5030; 5042; 5120; 5128; 5139; 5214
MboII	GAAGANNNNNNN!	12	623; 756; 1530; 1614; 1701; 2109; 2222; 3118; 3346; 4223; 4433; 5052
MboII	!NNNNNNNTCTTC	4	4513; 4680; 4880; 5123
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2612
MfII	R!GATCY	11	585; 1425; 1787; 2343; 4033; 4279; 4671; 5030; 5042; 5128; 5139
MhII	GDGCH!C	16	772; 790; 965; 1120; 1441; 1860; 1887; 1920; 3053; 3808; 3901; 3975; 4165; 4227; 4937; 5470
MIsI	TGG!CCA	2	2463; 3944
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	2463; 3944
MlyI	GAGTCNNNNN!	4	1507; 2092; 2914; 3346
MlyI	!NNNNNGACTC	5	404; 2507; 2921; 4527; 5404
Mly113I	GG!CGCC	1	3862
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	2955
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	5387; 5571
MnII	CCTCNNNNNNN!	14	763; 1966; 2035; 2145; 2160; 2243; 2376; 2581; 3645; 4463; 4669; 4983; 5353; 5677
MnII	!NNNNNNGAGG	34	541; 601; 773; 911; 1026; 1047; 1160; 1332; 1388; 1624; 1637; 1776; 1847; 1886; 1907; 1940; 2057; 2166; 2222; 2411; 2444; 2487; 2541; 3006; 3337; 3615; 3658; 3673; 3713; 3777; 3913; 4270; 4700; 5603
Mph1103I	ATGCA!T	3	3434; 3506; 5837
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1779
MroNI	G!CCGGC	5	659; 921; 3079; 4362; 4645
MroXI	GAANN!NNTTC	1	1522
MscI	TGG!CCA	2	2463; 3944
MseI	T!TAA	19	7; 718; 1762; 1822; 2047; 2563; 2624; 2745; 2766; 2777; 2789; 2800; 2817; 2915; 3186; 5005; 5019; 5024; 5076
MslI	CAYNN!NNRTG	8	365; 765; 883; 1069; 1446; 1806; 1836; 4299
MspI	C!CGG	25	660; 737; 922; 959; 983; 1780; 1794; 2028; 2377; 3080; 3767; 3844; 3866; 3894; 4025; 4115; 4182; 4363; 4638; 4646; 4738; 5212; 5402; 5428; 5575
Msp20I	TGG!CCA	2	2463; 3944
MspA1I	CMG!CKG	6	845; 2256; 3360; 3968; 5197; 5442
MspCI	C!TTAAG	1	2744

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	292	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; 630; 643; 664; 680; 697; 749; 768; 783; 801; 822; 850; 867; 893; 906; 926; 945; 962; 976; 994; 1010; 1024; 1038; 1054; 1077; 1100; 1115; 1133; 1152; 1187; 1213; 1232; 1267; 1330; 1346; 1365; 1394; 1414; 1429; 1452; 1470; 1485; 1506; 1521; 1539; 1563; 1577; 1602; 1620; 1666; 1681; 1707; 1726; 1749; 1769; 1792; 1806; 1826; 1844; 1862; 1892; 1910; 1925; 1940; 1958; 1991; 2006; 2030; 2049; 2073; 2086; 2102; 2120; 2134; 2150; 2163; 2177; 2198; 2211; 2232; 2251; 2265; 2279; 2297; 2310; 2327; 2340; 2354; 2367; 2381; 2402; 2415; 2434; 2453; 2476; 2497; 2522; 2535; 2550; 2569; 2586; 2599; 2640; 2654; 2667; 2685; 2723; 2738; 2756; 2797; 2821; 2841; 2859; 2880; 2903; 2935; 2950; 2972; 2990; 3003; 3024; 3041; 3054; 3067; 3083; 3096; 3126; 3141; 3166; 3184; 3197; 3212; 3236; 3250; 3274; 3299; 3315; 3353; 3369; 3408; 3422; 3436; 3464; 3480; 3494; 3508; 3537; 3550; 3571; 3580; 3602; 3632; 3648; 3666; 3696; 3719; 3743; 3767; 3786; 3814; 3840; 3856; 3869; 3892; 3906; 3926; 3939; 3953; 3972; 3986; 3999; 4015; 4030; 4043; 4059; 4074; 4090; 4115; 4134; 4150; 4163; 4176; 4194; 4208; 4222; 4238; 4260; 4276; 4295; 4317; 4333; 4356; 4375; 4389; 4405; 4419; 4439; 4455; 4468; 4490; 4523; 4537; 4557; 4570; 4584; 4638; 4651; 4674; 4687; 4706; 4723; 4750; 4786; 4819; 4838; 4863; 4884; 4911; 4924; 4941; 4955; 4970; 4986; 5046; 5071; 5087; 5109; 5122; 5136; 5167; 5181; 5206; 5224; 5239; 5252; 5271; 5284; 5299; 5328; 5347; 5365; 5390; 5405; 5424; 5440; 5459; 5477; 5493; 5507; 5526; 5553; 5576; 5598; 5617; 5632; 5645; 5662; 5682; 5709; 5722; 5741; 5766; 5789; 5803; 5816; 5833
MspJI	!NNNNNNNNNNNNNYNG	247	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; 617; 639; 661; 679; 697; 723; 742; 761; 786; 803; 828; 851; 869; 887; 908; 945; 968; 985; 1007; 1024; 1053; 1072; 1089; 1107; 1126; 1152; 1171; 1191; 1218; 1241; 1270; 1290; 1320; 1339; 1368; 1388; 1414; 1431; 1459; 1480; 1499; 1520; 1542; 1576; 1608; 1629; 1650; 1671; 1700; 1721; 1743; 1765; 1791; 1809; 1836; 1866; 1890; 1908; 1932; 1951; 1973; 2004; 2023; 2047; 2080; 2109; 2151; 2173; 2206; 2226; 2253; 2271; 2288; 2306; 2334; 2355; 2376; 2400; 2422; 2445; 2462; 2488; 2514; 2543; 2572; 2614; 2697; 2732; 2759; 2782; 2811; 2855; 2877; 2909; 2945; 2962; 2983; 3020; 3040; 3057; 3074; 3109; 3127; 3145; 3162; 3186; 3208; 3235; 3263; 3289; 3327; 3348; 3365; 3383; 3406; 3427; 3455; 3478; 3499; 3517; 3538; 3555; 3578; 3602; 3622; 3640; 3662; 3693; 3715; 3741; 3760; 3777; 3805; 3824; 3843; 3861; 3879; 3900; 3922; 3946; 3979; 3999; 4017; 4038; 4064; 4091; 4108; 4125; 4142; 4168; 4190; 4212; 4230; 4250; 4269; 4291; 4329; 4349; 4373; 4393; 4413; 4440; 4464; 4497; 4516; 4544; 4566; 4595; 4623; 4648; 4667; 4686; 4707; 4724; 4741; 4772; 4799; 4819; 4842; 4862; 4899; 4916; 4935; 4961; 4981; 5020; 5047; 5066; 5084; 5121; 5139; 5180; 5198; 5224; 5241; 5273; 5302; 5330; 5351; 5374; 5393; 5414; 5432; 5449; 5467; 5493; 5514; 5534; 5554; 5572; 5593; 5619; 5636; 5655; 5674; 5703; 5722; 5740; 5759; 5777; 5795; 5818
MspR9I	CC!NGG	29	90; 283; 776; 915; 960; 984; 1122; 1206; 1354; 1495; 1980; 2029; 2124; 2139; 2268; 2377; 3398; 3453; 3470; 3866; 4026; 4249; 4639; 4828; 4931; 5403; 5621; 5634; 5755
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2612
MvaI	CC!WGG	21	90; 283; 776; 915; 1122; 1206; 1354; 1495; 1980; 2124; 2139; 2268; 3398; 3453; 3470; 4249; 4828; 4931; 5621; 5634; 5755
Mva1269I	GAATGCN!	1	2613
Mva1269I	G!CATTC	1	2706
MvnI	CG!CG	16	60; 634; 2511; 2786; 3162; 3182; 3206; 3237; 3928; 4229; 4667; 4751; 4814; 4883; 5156; 5737
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 597; 702; 910; 960; 1134; 1659; 1841; 2272; 3089; 3119; 3146; 3188; 3429; 3501; 3552; 3631; 3853; 3937; 3960; 4099; 4222; 4305; 4572; 4759; 4963; 5162; 5734
NaeI	GCC!GGC	5	661; 923; 3081; 4364; 4647
NarI	GG!CGCC	1	3862
NciI	CC!SGG	8	960; 984; 2029; 2377; 3866; 4026; 4639; 5403

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NcoI	C!CATGG	4	360; 1804; 3591; 4294
NdeI	CA!TATG	1	234
NdeII	!GATC	26	585; 839; 1056; 1425; 1670; 1753; 1787; 2317; 2343; 2519; 3699; 3703; 3722; 4033; 4111; 4192; 4201; 4279; 4655; 4671; 5030; 5042; 5120; 5128; 5139; 5214
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	1924
NgoAVIII	TCANNNNNNGTCNNNNNNNNNNNN!	1	1960
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	5	659; 921; 3079; 4362; 4645
NheI	G!CTAGC	1	591
NlaIII	CATG!	27	304; 364; 608; 1070; 1235; 1808; 1835; 1841; 1853; 1931; 1997; 2077; 2281; 2288; 3292; 3432; 3504; 3595; 3736; 4081; 4267; 4298; 4324; 4680; 5064; 5784; 5835
NlaIV	GGN!NCC	22	467; 987; 1117; 1438; 1742; 1789; 1859; 1919; 2310; 3017; 3038; 3050; 3241; 3402; 3474; 3863; 3898; 4746; 4825; 4870; 5713; 5752
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	4	971; 2694; 3009; 4601
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	5	347; 868; 2184; 2470; 5673
Nli3877I	CYCGR!G	1	986
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3651; 4087
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	2200; 3616
NmeDI	RCCGGYNNNNNNN!	8	671; 748; 933; 1805; 3091; 4193; 4374; 4657
NmeDI	!NNNNNNNNNNNNRCCGGY	8	646; 723; 908; 1780; 3066; 4168; 4349; 4632
NmuCI	!GTSAC	10	726; 758; 876; 1488; 1545; 2084; 2280; 3151; 3982; 4288
NotI	GC!GGCCGC	1	2506
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3964
NsiI	ATGCA!T	3	3434; 3506; 5837
NspI	RCATG!Y	7	1070; 1835; 2281; 3432; 3504; 4267; 5784
NspV	TT!CGAA	2	1219; 4544
OliI	CACNN!NNGTG	3	765; 883; 1806
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 818; 1512; 1849; 1999; 2251; 4169
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3432; 3504; 4267
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	2	3288; 5060
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1121; 4827; 4930
PauI	G!CGCGC	0	
PceI	AGG!CCT	2	2232; 3683
PciI	A!CATGT	2	1066; 5780
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	1684; 4206; 4416
PcsI	WCGNNNN!NNNCGW	7	2446; 4156; 4233; 4476; 4550; 4943; 5461
PctI	GAATGCN!	1	2613
PctI	G!CATTC	1	2706
PdiI	GCC!GGC	5	661; 923; 3081; 4364; 4647
PdmI	GAANN!NNTTC	1	1522
PfeI	G!AWTC	7	1933; 2410; 4347; 4481; 4591; 4628; 5806
Pfi23II	C!GTACG	0	
Pfifi	GACN!NNGTC	1	3980
PfIMI	CCANNNN!NTGG	2	1750; 2402
PfoI	T!CCNGGA	2	2137; 4637
PhoI	GG!CC	35	84; 277; 751; 913; 921; 988; 1210; 1439; 1668; 1954; 2197; 2232; 2266; 2289; 2311; 2421; 2463; 2508; 2828; 2970; 3625; 3631; 3640; 3683; 3770; 3944; 4335; 4362; 4871; 4928; 4961; 5306; 5740; 5758; 5769
PinAI	A!CCGGT	1	1793
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	4243
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	3	1426; 3808; 4063
PleI	GAGTCNNNN!	4	1506; 2091; 2913; 3345
PleI	!NNNNNGACTC	5	404; 2507; 2921; 4527; 5404
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2944
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	5074
PpiI	GAGNNNNGTTCNNNNNNNNNNNNNN!	1	5106
PpiI	!NNNNNNNGAACNNNNNCTC	1	2912
PpsI	GAGTCNNNN!	4	1506; 2091; 2913; 3345
PpsI	!NNNNNGACTC	5	404; 2507; 2921; 4527; 5404
Ppu10I	A!TGCAT	3	3430; 3502; 5833
Ppu21I	YAC!GTR	3	340; 2978; 4166
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	2	1066; 5780
PshAI	GACNN!NNGTC	1	2436
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2645; 2850
Psp03I	GGWC!C	3	2396; 4381; 4826
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	21	88; 281; 774; 913; 1120; 1204; 1352; 1493; 1978; 2122; 2137; 2266; 3396; 3451; 3468; 4247; 4826; 4929; 5619; 5632; 5753
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	21	88; 281; 774; 913; 1120; 1204; 1352; 1493; 1978; 2122; 2137; 2266; 3396; 3451; 3468; 4247; 4826; 4929; 5619; 5632; 5753
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 987; 1117; 1438; 1742; 1789; 1859; 1919; 2310; 3017; 3038; 3050; 3241; 3402; 3474; 3863; 3898; 4746; 4825; 4870; 5713; 5752
PspOMI	G!GGCCC	1	1437
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 3592; 4591
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	2	1103; 3994
PspPI	G!GNCC	18	83; 276; 750; 911; 986; 1208; 1438; 1953; 2196; 2288; 2309; 2393; 2969; 4378; 4823; 4869; 4927; 4960
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	3415; 3487; 4993
PspPRI	!NNNNNNNNNNNNNCTGRGG	3	2048; 3328; 4523
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	4	753; 989; 1440; 4963
PstI	CTGCA!G	1	1459
PstNI	CAGNNN!CTG	2	4963; 5371
PsuI	R!GATCY	11	585; 1425; 1787; 2343; 4033; 4279; 4671; 5030; 5042; 5128; 5139
Psyl	GACN!NNGTC	1	3980
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	845; 3360; 3968
RcaI	T!CATGA	2	3288; 5060
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4377
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	2	950; 2591
RleAI	!NNNNNNNNNTGTGGG	1	898
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 817; 1511; 1848; 1998; 2250; 4168

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 816; 1510; 1847; 1997; 2249; 4167
RseI	CAYNN!NNRTG	8	365; 765; 883; 1069; 1446; 1806; 1836; 4299
RsrII	CG!GWCCG	1	4378
Rsr2I	CG!GWCCG	1	4378
SacI	GAGCT!C	0	
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	3	1684; 4206; 4416
SaqAI	T!TAA	19	7; 718; 1762; 1822; 2047; 2563; 2624; 2745; 2766; 2777; 2789; 2800; 2817; 2915; 3186; 5005; 5019; 5024; 5076
SatI	GC!NGC	41	622; 1198; 1237; 1315; 1411; 1414; 1455; 1651; 1952; 2003; 2147; 2264; 2445; 2509; 2639; 3158; 3180; 3194; 3632; 3771; 3823; 3834; 3924; 3929; 3966; 4007; 4094; 4100; 4336; 4432; 4473; 4487; 4601; 4940; 4955; 5166; 5372; 5375; 5440; 5583; 5738
Sau96I	G!GNCC	18	83; 276; 750; 911; 986; 1208; 1438; 1953; 2196; 2288; 2309; 2393; 2969; 4378; 4823; 4869; 4927; 4960
Sau3AI	!GATC	26	585; 839; 1056; 1425; 1670; 1753; 1787; 2317; 2343; 2519; 3699; 3703; 3722; 4033; 4111; 4192; 4201; 4279; 4655; 4671; 5030; 5042; 5120; 5128; 5139; 5214
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	1507; 2092; 2914; 3346
SchI	!NNNNNGACTC	5	404; 2507; 2921; 4527; 5404
SciI	CTC!GAG	0	
ScrFI	CC!NGG	29	90; 283; 776; 915; 960; 984; 1122; 1206; 1354; 1495; 1980; 2029; 2124; 2139; 2268; 2377; 3398; 3453; 3470; 3866; 4026; 4249; 4639; 4828; 4931; 5403; 5621; 5634; 5755
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	6	680; 2234; 3440; 3512; 3681; 5623
SdeAI	!NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTYCTG	3	734; 4017; 4502
SdeOSI	GACNNNNRTGANNNNNNNNNNNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNNRTGA	1	245
SduI	GDGCH!C	16	772; 790; 965; 1120; 1441; 1860; 1887; 1920; 3053; 3808; 3901; 3975; 4165; 4227; 4937; 5470
SelI	!CGCG	16	58; 632; 2509; 2784; 3160; 3180; 3204; 3235; 3926; 4227; 4665; 4749; 4812; 4881; 5154; 5735
SetI	ASST!	82	125; 137; 178; 261; 308; 342; 447; 552; 568; 733; 847; 902; 1018; 1037; 1117; 1171; 1226; 1241; 1256; 1299; 1407; 1456; 1685; 1696; 1727; 1779; 1819; 1846; 1942; 1992; 2013; 2164; 2170; 2299; 2317; 2329; 2368; 2392; 2436; 2440; 2455; 2498; 2552; 2573; 2582; 2594; 2643; 2810; 2925; 2937; 2980; 3017; 3067; 3090; 3214; 3362; 3457; 3650; 3763; 3891; 3970; 3981; 4053; 4124; 4168; 4428; 4574; 4618; 4949; 4980; 5039; 5082; 5225; 5246; 5345; 5482; 5497; 5516; 5528; 5572; 5618; 5669
SexAI	A!CCWGGT	1	3451
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	690; 934; 1108; 2041; 2678; 3441; 3513; 4161; 4225; 4500
SfaNI	!NNNNNNNNNNNGATGC	12	357; 604; 692; 796; 1051; 1637; 2194; 2362; 3820; 4075; 4291; 5683
Sfcl	C!TRYAG	5	797; 1455; 3197; 5324; 5515
SfiI	GGCCNNNN!NGGCC	1	3637
SfoI	GGC!GCC	1	3863
Sfr274I	C!TCGAG	0	
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	2	1219; 4544

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	232	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 617; 630; 643; 672; 687; 749; 768; 787; 812; 879; 893; 906; 926; 971; 994; 1011; 1033; 1079; 1100; 1115; 1133; 1152; 1187; 1217; 1244; 1267; 1330; 1346; 1365; 1394; 1414; 1441; 1457; 1485; 1506; 1525; 1539; 1577; 1602; 1667; 1686; 1707; 1726; 1749; 1769; 1792; 1806; 1826; 1844; 1862; 1892; 1916; 1934; 1949; 1991; 2006; 2030; 2049; 2073; 2086; 2114; 2135; 2150; 2177; 2199; 2232; 2252; 2265; 2279; 2297; 2310; 2327; 2340; 2360; 2381; 2402; 2415; 2453; 2476; 2497; 2522; 2569; 2598; 2640; 2723; 2797; 2881; 2903; 2935; 2972; 2990; 3009; 3024; 3066; 3083; 3100; 3135; 3149; 3166; 3188; 3212; 3236; 3301; 3315; 3353; 3369; 3409; 3422; 3441; 3464; 3481; 3494; 3513; 3543; 3564; 3581; 3604; 3639; 3666; 3697; 3719; 3745; 3767; 3786; 3814; 3850; 3869; 3892; 3906; 3926; 3939; 3953; 3972; 3986; 4005; 4037; 4051; 4064; 4090; 4121; 4134; 4151; 4168; 4182; 4199; 4217; 4232; 4260; 4276; 4295; 4317; 4333; 4356; 4375; 4400; 4419; 4439; 4466; 4490; 4523; 4542; 4570; 4584; 4650; 4674; 4689; 4712; 4733; 4750; 4798; 4825; 4839; 4868; 4892; 4925; 4942; 4962; 4975; 4988; 5046; 5073; 5092; 5122; 5147; 5167; 5181; 5206; 5224; 5261; 5299; 5328; 5356; 5370; 5390; 5405; 5426; 5440; 5459; 5477; 5493; 5533; 5553; 5580; 5598; 5619; 5632; 5645; 5662; 5686; 5709; 5741; 5766; 5793; 5815
SgeI	!NNNNNNNNNNNNCNG	202	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 604; 621; 646; 671; 723; 742; 761; 786; 853; 880; 900; 945; 968; 985; 1007; 1053; 1074; 1099; 1126; 1161; 1191; 1218; 1241; 1304; 1339; 1368; 1388; 1415; 1459; 1480; 1499; 1551; 1576; 1641; 1660; 1681; 1700; 1723; 1743; 1766; 1791; 1818; 1836; 1866; 1890; 1908; 1932; 1965; 2004; 2023; 2047; 2088; 2109; 2151; 2173; 2206; 2226; 2253; 2271; 2292; 2314; 2334; 2355; 2376; 2400; 2427; 2450; 2471; 2496; 2543; 2572; 2614; 2697; 2771; 2855; 2877; 2909; 2946; 2964; 2983; 3040; 3057; 3074; 3109; 3127; 3147; 3167; 3186; 3210; 3275; 3327; 3383; 3415; 3438; 3455; 3487; 3517; 3538; 3555; 3578; 3613; 3640; 3671; 3693; 3719; 3741; 3760; 3788; 3824; 3843; 3866; 3887; 3905; 3922; 3946; 3979; 4011; 4038; 4064; 4095; 4125; 4142; 4168; 4191; 4212; 4234; 4254; 4274; 4291; 4330; 4349; 4374; 4393; 4413; 4440; 4464; 4497; 4516; 4544; 4566; 4624; 4648; 4667; 4686; 4707; 4724; 4772; 4799; 4819; 4842; 4866; 4899; 4916; 4936; 4962; 5020; 5047; 5066; 5096; 5121; 5141; 5180; 5198; 5235; 5273; 5302; 5330; 5351; 5379; 5400; 5433; 5451; 5507; 5527; 5554; 5572; 5593; 5619; 5636; 5660; 5683; 5715; 5740; 5767; 5789; 5818
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 3009; 4796; 5589
SimI	!GACCC	7	106; 1490; 1547; 1718; 4290; 4858; 5106
SinI	G!GWCC	3	2393; 4378; 4823
SlaI	C!TCGAG	0	
SmaI	CCC!GGG	1	984
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	8	365; 765; 883; 1069; 1446; 1806; 1836; 4299
SmlI	C!TYRAG	8	1563; 2328; 2367; 2744; 4253; 5135; 5412; 5674
SmoI	C!TYRAG	8	1563; 2328; 2367; 2744; 4253; 5135; 5412; 5674
SmuI	CCCGCNNNN!	11	93; 119; 286; 639; 2261; 2363; 3184; 3539; 3560; 4756; 4888
SmuI	!NNNNNNGCGGG	6	2298; 3115; 3985; 4522; 4660; 4807
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3432; 3504; 4267
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	17	18; 689; 715; 859; 1003; 1248; 1522; 1615; 2612; 2676; 2754; 2780; 2791; 3438; 3510; 3602; 5020
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	2	2232; 3683

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 598; 622; 632; 2116; 2254; 2356; 2509; 3177; 3180; 3194; 3284; 3532; 3544; 3553; 3565; 3575; 3586; 3632; 3771; 3834; 4336; 4381; 4447; 4473; 4598; 4601; 4749; 4881; 5188; 5332; 5828
SsiI	G!CGG	28	370; 403; 528; 1311; 1951; 2263; 2305; 2505; 3122; 3149; 3237; 3347; 3928; 3992; 4093; 4096; 4376; 4431; 4529; 4667; 4814; 4954; 5197; 5442; 5563; 5582; 5709; 5737
SspI	AAT!ATT	2	2770; 3323
SspDI	G!GCGCC	1	3861
SspD5I	GGTGANNNNNNNN!	7	376; 1589; 1820; 2189; 2499; 4933; 5049
SspD5I	!NNNNNNNNNTCACC	6	725; 763; 970; 2077; 2978; 4039
SstI	GAGCT!C	0	
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	2122
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 638; 692; 989; 2044; 2260; 2362; 2383; 3061; 3183; 3538; 3559; 3872; 4275; 4414; 4485; 4755; 4887; 5117; 5555
Sth132I	!NNNNNNNNNCGGG	24	15; 407; 470; 951; 975; 1079; 2020; 2093; 2297; 3062; 3114; 3215; 3942; 3984; 4017; 4521; 4630; 4659; 4806; 4910; 4941; 5394; 5438; 5646
Sth302II	CC!GG	25	661; 738; 923; 960; 984; 1781; 1795; 2029; 2378; 3081; 3768; 3845; 3867; 3895; 4026; 4116; 4183; 4364; 4639; 4647; 4739; 5213; 5403; 5429; 5576
StrI	C!TCGAG	0	
StsI	GGATGNNNNNNNNNN!	9	796; 816; 1381; 1587; 1660; 3730; 4187; 4212; 4666
StsI	!NNNNNNNNNNNNNNCATCC	6	667; 1427; 1873; 1961; 2018; 3534
StuI	AGG!CCT	2	2232; 3683
StyI	C!CWGG	6	360; 1804; 3591; 3684; 4294; 4699
StyD4I	!CCNGG	29	88; 281; 774; 913; 958; 982; 1120; 1204; 1352; 1493; 1978; 2027; 2122; 2137; 2266; 2375; 3396; 3451; 3468; 3864; 4024; 4247; 4637; 4826; 4929; 5401; 5619; 5632; 5753
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	19	76; 198; 269; 543; 581; 767; 815; 1467; 1482; 1509; 1862; 2953; 4242; 4358; 4466; 4789; 5280; 5750; 5821
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 1299; 2164; 2392; 2440; 2925; 2937; 2980; 3090; 3981; 4168; 4949; 5082
TaqI	T!CGA	16	1059; 1219; 1945; 1972; 2440; 3011; 3702; 3975; 4131; 4155; 4191; 4353; 4544; 4589; 4844; 5682
TaqII	GACCGANNNNNNNNNN!	3	2882; 3899; 4567
TaqII	!NNNNNNNNNTCGGTC	1	4811
TaqII	CACCCANNNNNNNNNN!	1	1935
TaqII	!NNNNNNNNNTGGGTG	3	172; 3766; 4358
TasI	!AATT	17	18; 689; 715; 859; 1003; 1248; 1522; 1615; 2612; 2676; 2754; 2780; 2791; 3438; 3510; 3602; 5020
TatI	W!GTACW	5	217; 297; 330; 381; 1846
TauI	GCSG!C	20	624; 1314; 1954; 2266; 2511; 3182; 3196; 3634; 3773; 3836; 3931; 4096; 4099; 4338; 4434; 4475; 4603; 4957; 5585; 5740
TfiI	G!AWTC	7	1933; 2410; 4347; 4481; 4591; 4628; 5806
TliI	C!TCGAG	0	
TruII	T!TAA	19	7; 718; 1762; 1822; 2047; 2563; 2624; 2745; 2766; 2777; 2789; 2800; 2817; 2915; 3186; 5005; 5019; 5024; 5076
Tru9I	T!TAA	19	7; 718; 1762; 1822; 2047; 2563; 2624; 2745; 2766; 2777; 2789; 2800; 2817; 2915; 3186; 5005; 5019; 5024; 5076
TscAI	CASTGNN!	9	772; 1328; 1601; 1755; 2708; 3991; 5101; 5372; 5385
TseI	G!CWGC	23	1197; 1236; 1314; 1410; 1413; 1454; 1650; 2002; 2146; 2444; 2638; 3157; 3822; 3923; 3965; 4006; 4099; 4486; 4939; 5165; 5371; 5374; 5439
TsoI	TARCCANNNNNNNNNN!	3	1218; 2834; 3181
TsoI	!NNNNNNNNNTGGYTA	3	1971; 2639; 4391
Tsp45I	!GTSAC	10	726; 758; 876; 1488; 1545; 2084; 2280; 3151; 3982; 4288
Tsp509I	!AATT	17	18; 689; 715; 859; 1003; 1248; 1522; 1615; 2612; 2676; 2754; 2780; 2791; 3438; 3510; 3602; 5020
TspDTI	ATGAANNNNNNNNNN!	4	1854; 2620; 3921; 4625
TspDTI	!NNNNNNNNNTTCAT	8	26; 1253; 1337; 1982; 2003; 4339; 4795; 5002
TspEI	!AATT	17	18; 689; 715; 859; 1003; 1248; 1522; 1615; 2612; 2676; 2754; 2780; 2791; 3438; 3510; 3602; 5020
TspGWI	ACGGANNNNNNNNNN!	2	1489; 4737

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TspGI	!NNNNNNNNNTCCGT	1	983
TspMI	C!CCGGG	1	982
TspRI	CASTGNN!	9	772; 1328; 1601; 1755; 2708; 3991; 5101; 5372; 5385
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	2	1687; 1727
TstI	!NNNNNNNNGGANNNNNNNGTG	2	1099; 1368
TstI	GGANNNNNNGTGNNNNNNNNNNNN!	2	1131; 1400
TstI	!NNNNNNNNCACNNNNNNNTCC	2	1655; 1695
Tth111I	GACN!NNGTC	1	3980
Tth111II	CAARCANNNNNNNNNN!	3	680; 2034; 5189
Tth111II	!NNNNNNNNNTGYTTG	3	4297; 5157; 5196
UnbI	!GGNCC	18	82; 275; 749; 910; 985; 1207; 1437; 1952; 2195; 2287; 2308; 2392; 2968; 4377; 4822; 4868; 4926; 4959
Van9II	CCANNNN!NTGG	2	1750; 2402
Vha464I	C!TTAAG	1	2744
VneI	G!TGCAC	2	1883; 5466
VpaK11AI	!GGWCC	3	2392; 4377; 4822
VpaK11BI	G!GWCC	3	2393; 4378; 4823
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATY	5	1003; 1522; 2676; 2780; 2791
XbaI	T!CTAGA	1	2516
XceI	RCATG!Y	7	1070; 1835; 2281; 3432; 3504; 4267; 5784
XcmI	CCANNNN!NNNNTGG	0	
XhoI	C!TCGAG	0	
XhoII	R!GATCY	11	585; 1425; 1787; 2343; 4033; 4279; 4671; 5030; 5042; 5128; 5139
XmaI	C!CCGGG	1	982
XmaJI	C!CTAGG	2	3684; 4699
XmiI	GT!MKAC	1	2383
XmnI	GAANN!NNTTC	1	1522
XspI	C!TAG	9	592; 1140; 2517; 2711; 3129; 3685; 4700; 5034; 5287
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3434; 3506; 5837