

## pTagCFP-tubulin vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2849; 3054
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	3137; 4093; 5882
AatI	AGG!CCT	2	2503; 3887
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	1547; 1955
AccII	CG!CG	19	60; 701; 938; 977; 1256; 2954; 2990; 3366; 3386; 3410; 3441; 4132; 4433; 4871; 4955; 5018; 5087; 5360; 5941
AccIII	T!CCGGA	1	1327
Acc16I	TGC!GCA	1	4168
Acc36I	ACCTGCNNNN!	2	4334; 4784
Acc36I	!NNNNNNNNGCAGGT	1	3953
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	8	465; 1585; 2121; 2381; 2430; 3219; 4065; 4100
AccB7I	CCANNNN!NTGG	3	1032; 1308; 2373
AccBSI	CCG!CTC	3	1325; 3490; 4679
AccBSI	GAG!CGG	3	617; 3326; 4733
AceIII	CAGCTCNNNNNNN!	3	1609; 1627; 3022
AceIII	!NNNNNNNNNNGAGCTG	7	552; 616; 649; 970; 1203; 1303; 2450
AciI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 828; 936; 975; 1113; 1226; 1242; 1254; 1323; 1593; 2028; 2133; 3381; 3384; 3398; 3488; 3736; 3748; 3757; 3769; 3779; 3790; 3836; 3975; 4038; 4540; 4585; 4651; 4677; 4802; 4805; 4953; 5085; 5392; 5536; 6032
AciI	G!CGG	28	370; 403; 528; 617; 701; 938; 1130; 1133; 3326; 3353; 3441; 3551; 4132; 4196; 4297; 4300; 4580; 4635; 4733; 4871; 5018; 5158; 5401; 5646; 5767; 5786; 5913; 5941
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	2709; 2718; 3934; 4245; 4491; 4883; 5242; 5340; 5426
AclWI	!NNNNNGATCC	8	580; 1104; 1188; 2696; 4310; 4854; 5241; 5338
AcoI	Y!GGCCR	10	681; 1145; 1371; 1443; 2150; 2447; 3972; 4146; 4537; 4564
AcsI	R!AATY	5	1706; 2104; 2880; 2984; 2995
AcuI	CTGAAGNNNNNNNNNNNNNNN!	3	1006; 4212; 4644
AcuI	!NNNNNNNNNNNNNCTTCAG	4	1266; 1485; 1723; 5442
AcvI	CAC!GTG	1	1527
AcyI	GR!CGYC	8	122; 175; 258; 444; 719; 4066; 4768; 4847
AdeI	CACNNN!GTG	2	1266; 3182
AfaI	GT!AC	14	219; 244; 299; 332; 383; 540; 928; 1039; 1063; 1321; 2299; 2456; 2566; 4372
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	29	49; 617; 779; 806; 912; 942; 1032; 1308; 1698; 1803; 2269; 2373; 2451; 2631; 3078; 3404; 3796; 4047; 4591; 4872; 4904; 5036; 5071; 5121; 5153; 5506; 5785; 5951; 5969
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	3	1058; 2952; 5984
AgeI	A!CCGGT	2	600; 1732
AgsI	TTS!AA	11	864; 1002; 1107; 1491; 2397; 2665; 3477; 3521; 3531; 3944; 5520
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	2	675; 2310
AjnI	!CCWGG	30	88; 281; 778; 788; 805; 890; 911; 965; 1019; 1091; 1172; 1271; 1373; 1418; 1868; 1925; 2117; 2433; 2444; 2503; 2513; 3600; 3655; 3672; 4451; 5030; 5133; 5823; 5836; 5957
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	

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AjuI	!NNNNNNCCAANNNNNNTTC	1	1831
AjuI	CCAANNNNNNTTCNNNNNNNNNNNN!	1	1863
AjuI	!NNNNNNNGAANNNNNNTTGG	0	
AleI	CACNN!NNGTG	3	790; 967; 2428
AlfI	GCANNNNTGTCNNNNNNNNNNNN!	3	1543; 3640; 3712
AlfI	!NNNNNNNNNGCANNNNNTGC	3	1509; 3606; 3678
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	2	1447; 3148
AloI	!NNNNNNNGGANNNNNNGTTC	1	730
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	1	762
AloI	!NNNNNNNGAACNNNNNTCC	2	1415; 3116
AluI	AG!CT	29	566; 630; 663; 735; 768; 984; 1143; 1217; 1317; 1410; 1599; 1617; 1716; 1763; 1842; 1882; 2199; 2464; 2845; 3012; 3269; 3564; 3852; 4172; 4630; 5427; 5684; 5730; 5820
AluBI	AG!CT	29	566; 630; 663; 735; 768; 984; 1143; 1217; 1317; 1410; 1599; 1617; 1716; 1763; 1842; 1882; 2199; 2464; 2845; 3012; 3269; 3564; 3852; 4172; 4630; 5427; 5684; 5730; 5820
AlwI	GGATCNNNN!	9	2709; 2718; 3934; 4245; 4491; 4883; 5242; 5340; 5426
AlwI	!NNNNNGATCC	8	580; 1104; 1188; 2696; 4310; 4854; 5241; 5338
Alw21I	GWGCW!C	9	680; 842; 1271; 1412; 1732; 1934; 4179; 4369; 5674
Alw26I	GTCTCN!	2	434; 1816
Alw26I	!NNNNNGAGAC	6	1501; 2435; 3490; 3908; 4927; 5055
Alw44I	G!TGCAC	3	676; 1728; 5670
AlwNI	CAGNNN!CTG	2	5167; 5575
Ama87I	C!YCGRG	5	835; 877; 1340; 1532; 1655
Aor13HI	T!CCGGA	1	1327
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	5	819; 1401; 3634; 3706; 5168
ApaLI	G!TGCAC	3	676; 1728; 5670
ApeKI	G!CWGC	22	768; 1140; 1217; 1614; 1639; 2288; 2332; 2360; 2620; 2842; 3361; 4026; 4127; 4169; 4210; 4303; 4690; 5143; 5369; 5575; 5578; 5643
ApoI	R!AATTY	5	1706; 2104; 2880; 2984; 2995
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	4581
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	4375; 5028; 5866
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	4465
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	4	650; 1500; 2666; 3894
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	2	2609; 2702
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	1	4636
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	1	2541
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNNGACNNNNNTTYG	1	2509
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 657; 741; 1110; 1194; 1337; 1683; 2214; 2702; 2711; 2724; 3904; 3908; 3927; 4238; 4316; 4397; 4406; 4484; 4860; 4876; 5235; 5247; 5325; 5333; 5344; 5419
AsiGI	A!CCGGT	2	600; 1732
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4184
Asp700I	GAANN!NNTTC	2	856; 1779
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3888; 4903
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	29	597; 701; 871; 899; 1045; 1288; 1516; 2006; 2360; 3332; 3340; 3366; 3388; 3397; 3410; 3441; 4060; 4068; 4132; 4169; 4435; 4695; 4871; 4957; 5360; 5469; 5643; 5743; 5810
AspS9I	G!GNCC	15	83; 276; 782; 1023; 1183; 1239; 1701; 2517; 2604; 3173; 4582; 5027; 5073; 5131; 5164
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	4748
AsuC2I	CC!SGG	6	1533; 1534; 4070; 4230; 4843; 5607
AsuHPI	GGTGANNNNNNN!	11	376; 715; 804; 957; 981; 2262; 2317; 2584; 2686; 5137; 5253

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AsuHPI	!NNNNNNNTCACC	5	1782; 1902; 2208; 3183; 4244
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	5	835; 877; 1340; 1532; 1655
AvaII	G!GWCC	5	1239; 1701; 2517; 4582; 5027
AviII	TGC!GCA	1	4168
AvrII	C!CTAGG	2	3888; 4903
AxyI	CC!TNAGG	2	3546; 5178
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNGT	1	2556
BaeI	GRTACNNNGTNNNNNNNNNNNN!	1	2589
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	12	650; 680; 779; 1172; 1532; 1664; 1732; 2126; 2386; 4012; 4105; 5674
BalI	TGG!CCA	5	1373; 1445; 2152; 2449; 4148
BamHI	G!GATCC	1	2701
BanI	G!GYRCC	8	465; 1585; 2121; 2381; 2430; 3219; 4065; 4100
BanII	GRGCY!C	7	1412; 1895; 2085; 2511; 3257; 4431; 5141
BanIII	AT!CGAT	1	3906
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNNN!NTGG	3	1032; 1308; 2373
BauI	C!ACGAG	2	4784; 5811
BauI	C!TCGTG	1	4658
BbeI	GGCGC!C	1	4069
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	1	1724
BbrPI	CAC!GTG	1	1527
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	1	1729
BbuI	GCATG!C	4	2475; 3636; 3708; 4471
BbvI	GCAGCNNNNNNNN!	9	1152; 1626; 2372; 2854; 4139; 4181; 4702; 5155; 5655
BbvI	!NNNNNNNNNNNGCTGC	12	755; 1204; 1626; 2275; 2319; 2607; 3348; 4013; 4197; 4290; 5356; 5562
Bbv12I	GWGCW!C	9	680; 842; 1271; 1412; 1732; 1934; 4179; 4369; 5674
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	1	2498
BccI	CCATCNNNN!	13	910; 1054; 1207; 1237; 1369; 1912; 1975; 2062; 2353; 3196; 3760; 4286; 4788
BccI	!NNNNNGATGG	8	1174; 1435; 2071; 2241; 2574; 3164; 3944; 4372
BceAI	ACGGCNNNNNNNNNN!	9	684; 744; 936; 1026; 1104; 1320; 1443; 4492; 4979
BceAI	!NNNNNNNNNNNNNGCCGT	3	3207; 4025; 5484
Bcefl	ACGGCNNNNNNNNNN!	9	684; 744; 936; 1026; 1104; 1320; 1443; 4492; 4979
Bcefl	!NNNNNNNNNNNNNGCCGT	3	3208; 4026; 5485
BcgI	CGANNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3495; 4285; 5786
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2723
BcnI	CC!SGG	6	1533; 1534; 4070; 4230; 4843; 5607
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNN!	3	1216; 2746; 5919
BdaI	!NNNNNNNNNTGANNNNNTCA	3	1182; 2712; 5885
BfaI	C!TAG	8	592; 2714; 2915; 3333; 3889; 4904; 5238; 5491
BfiI	ACTGGGNNNNN!	1	4015
BfiI	!NNNCCAGT	2	289; 3767
BfmI	C!TRYAG	5	1883; 2204; 3401; 5528; 5719
BfoI	RGCGC!Y	10	598; 872; 1046; 1289; 1517; 2007; 3333; 3341; 4069; 5744
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	3495; 4285; 5786
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4334; 4784

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BfuAI	!NNNNNNNNGCAGGT	1	3953
BfuCI	!GATC	27	585; 656; 740; 1109; 1193; 1336; 1682; 2213; 2701; 2710; 2723; 3903; 3907; 3926; 4237; 4315; 4396; 4405; 4483; 4859; 4875; 5234; 5246; 5324; 5332; 5343; 5418
BglI	GCCNNNN!NGGC	5	90; 212; 283; 2390; 3841
BglII	A!GATCT	1	1336
BisI	GC!NGC	39	769; 939; 1131; 1134; 1141; 1218; 1615; 1640; 2289; 2333; 2361; 2621; 2843; 3362; 3384; 3398; 3836; 3975; 4027; 4038; 4128; 4133; 4170; 4211; 4298; 4304; 4540; 4636; 4677; 4691; 4805; 5144; 5159; 5370; 5576; 5579; 5644; 5787; 5942
BlnI	C!CTAGG	2	3888; 4903
BlpI	GC!TNAGC	1	2476
BlsI	GCN!GC	39	770; 940; 1132; 1135; 1142; 1219; 1616; 1641; 2290; 2334; 2362; 2622; 2844; 3363; 3385; 3399; 3837; 3976; 4028; 4039; 4129; 4134; 4171; 4212; 4299; 4305; 4541; 4637; 4678; 4692; 4806; 5145; 5160; 5371; 5577; 5580; 5645; 5788; 5943
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	5	1239; 1701; 2517; 4582; 5027
Bme1390I	CC!NGG	36	90; 283; 780; 790; 807; 892; 913; 967; 1021; 1093; 1174; 1273; 1375; 1420; 1533; 1534; 1870; 1927; 2119; 2435; 2446; 2505; 2515; 3602; 3657; 3674; 4070; 4230; 4453; 4843; 5032; 5135; 5607; 5825; 5838; 5959
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	5	835; 877; 1340; 1532; 1655
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	2	675; 2310
BmgT120I	GG!NCC	15	84; 277; 783; 1024; 1184; 1240; 1702; 2518; 2605; 3174; 4583; 5028; 5074; 5132; 5165
BmiI	GGN!NCC	23	467; 1185; 1556; 1587; 2082; 2123; 2315; 2383; 2432; 2703; 3221; 3242; 3254; 3445; 3606; 3678; 4067; 4102; 4950; 5029; 5074; 5917; 5956
BmrI	ACTGGGNNNNN!	1	4015
BmrI	!NNNNCCCAGT	2	289; 3767
BmrFI	CC!NGG	36	90; 283; 780; 790; 807; 892; 913; 967; 1021; 1093; 1174; 1273; 1375; 1420; 1533; 1534; 1870; 1927; 2119; 2435; 2446; 2505; 2515; 3602; 3657; 3674; 4070; 4230; 4453; 4843; 5032; 5135; 5607; 5825; 5838; 5959
BmsI	GCATCNNNNN!	13	650; 821; 1364; 1439; 2144; 2372; 2414; 2882; 3645; 3717; 4365; 4429; 4704
BmsI	!NNNNNNNNNGATGC	7	357; 1439; 1626; 4024; 4279; 4495; 5887
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	4015
BmuI	!NNNNCCCAGT	2	289; 3767
BoxI	GACNN!NNGTC	1	1979
BpiI	GAAGACNN!	0	
BpiI	!NNNNNGTCTTC	1	1729
BpI	GAGNNNNCTCNNNNNNNNNNNN!	3	1374; 3855; 4754
BpI	!NNNNNNNGAGNNNNNCTC	3	1342; 3823; 4722
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	6	757; 1114; 1294; 1864; 1948; 4906
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	1	4849
Bpu10I	CC!TNAGC	2	1213; 1610
Bpu10I	GC!TNAGG	1	2498
Bpu14I	TT!CGAA	1	4748
Bpu1102I	GC!TNAGC	1	2476
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNGTCTTC	1	1729
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	2647; 5360; 5899
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	2	4442; 5601
BpuMI	CC!SGG	6	1533; 1534; 4070; 4230; 4843; 5607
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	2435; 5055
Bsa29I	AT!CGAT	1	3906
BsaAI	YAC!GTR	5	340; 1527; 2568; 3182; 4370
BsaBI	GATNN!NNATC	3	1198; 2728; 3925
BsaHI	GR!CGYC	8	122; 175; 258; 444; 719; 4066; 4768; 4847

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BsaJI	C!CNNGG	33	360; 778; 788; 806; 878; 936; 965; 1020; 1172; 1173; 1302; 1531; 1656; 1868; 1925; 2268; 2301; 2450; 2504; 3600; 3672; 3795; 3830; 3839; 3888; 4229; 4498; 4903; 5030; 5031; 5133; 5134; 5824
BsaMI	GAATGCN!	1	2817
BsaMI	G!CATTC	1	2910
BsaWI	W!CCGGW	8	600; 1327; 1732; 2707; 4097; 4941; 5631; 5778
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	3146
BsaXI	!NNNNNNNGGAGNNNNNGT	1	730
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	1	760
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	3116
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	2	1517; 2507
BsbI	!NNNNNNNNNNNNNNNNNGTGTTG	3	1676; 3067; 4974
Bsc4I	CCNNNNN!NNGG	29	49; 617; 779; 806; 912; 942; 1032; 1308; 1698; 1803; 2269; 2373; 2451; 2631; 3078; 3404; 3796; 4047; 4591; 4872; 4904; 5036; 5071; 5121; 5153; 5506; 5785; 5951; 5969
BscAI	GCATCNNNN!	13	649; 820; 1363; 1438; 2143; 2371; 2413; 2881; 3644; 3716; 4364; 4428; 4703
BscAI	!NNNNNNGATGC	7	360; 1442; 1629; 4027; 4282; 4498; 5890
BseI	ACTGGN!	7	1587; 1782; 2394; 2566; 4010; 4211; 5457
BseI	C!CAGT	9	295; 816; 1221; 1725; 2367; 3095; 3773; 5569; 5582
BseI	GATNN!NNATC	3	1198; 2728; 3925
Bse2II	CC!TNAGG	2	3546; 5178
Bse118I	R!CCGGY	7	600; 760; 1732; 3283; 4385; 4566; 4849
BseAI	T!CCGGA	1	1327
BseBI	CC!WGG	30	90; 283; 780; 790; 807; 892; 913; 967; 1021; 1093; 1174; 1273; 1375; 1420; 1870; 1927; 2119; 2435; 2446; 2505; 2515; 3602; 3657; 3674; 4453; 5032; 5135; 5825; 5838; 5959
BseCI	AT!CGAT	1	3906
BseDI	C!CNNGG	33	360; 778; 788; 806; 878; 936; 965; 1020; 1172; 1173; 1302; 1531; 1656; 1868; 1925; 2268; 2301; 2450; 2504; 3600; 3672; 3795; 3830; 3839; 3888; 4229; 4498; 4903; 5030; 5031; 5133; 5134; 5824
Bse3DI	GCAATGNN!	2	1401; 4299
Bse3DI	!CATTGC	2	2336; 2492
BseGI	GGATGNN!	5	2585; 3926; 4383; 4408; 4862
BseGI	!CATCC	10	812; 887; 902; 1016; 1361; 1430; 1904; 2135; 2363; 3752
BseJI	GATNN!NNATC	3	1198; 2728; 3925
BseLI	CCNNNNN!NNGG	29	49; 617; 779; 806; 912; 942; 1032; 1308; 1698; 1803; 2269; 2373; 2451; 2631; 3078; 3404; 3796; 4047; 4591; 4872; 4904; 5036; 5071; 5121; 5153; 5506; 5785; 5951; 5969
BseMI	GCAATGNN!	2	1401; 4299
BseMI	!CATTGC	2	2336; 2492
BseMII	CTCAGNNNNNNNNNN!	3	1347; 1829; 5192
BseMII	!NNNNNNNNCTGAG	11	1204; 1601; 2059; 2168; 2467; 2489; 3537; 3839; 4720; 5292; 5701
BseNI	ACTGGN!	7	1587; 1782; 2394; 2566; 4010; 4211; 5457
BseNI	C!CAGT	9	295; 816; 1221; 1725; 2367; 3095; 3773; 5569; 5582
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	4	640; 1490; 2656; 3884
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCMI!	12	650; 680; 779; 1172; 1532; 1664; 1732; 2126; 2386; 4012; 4105; 5674
BseXI	GCAGCNNNNNNNN!	9	1152; 1626; 2372; 2854; 4139; 4181; 4702; 5155; 5655
BseXI	!NNNNNNNNNNNGCTGC	12	755; 1204; 1626; 2275; 2319; 2607; 3348; 4013; 4197; 4290; 5356; 5562
BseX3I	C!GGCCG	1	3972
BseYI	C!CCAGC	4	1860; 3609; 3681; 5680
BseYI	G!CTGGG	2	1403; 4570
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	1	1159
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	738
Bsh1236I	CG!CG	19	60; 701; 938; 977; 1256; 2954; 2990; 3366; 3386; 3410; 3441; 4132; 4433; 4871; 4955; 5018; 5087; 5360; 5941
Bsh1285I	CGRY!CG	3	605; 3975; 5650

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BshFI	GG!CC	33	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1373; 1445; 1966; 2152; 2449; 2503; 2605; 3032; 3174; 3829; 3835; 3844; 3887; 3974; 4148; 4539; 4566; 5075; 5132; 5165; 5510; 5944; 5962; 5973
BshNI	G!GYRCC	8	465; 1585; 2121; 2381; 2430; 3219; 4065; 4100
BshTI	A!CCGGT	2	600; 1732
BshVI	AT!CGAT	1	3906
BsiEI	CGRY!CG	3	605; 3975; 5650
BsiHKAI	GWGCW!C	9	680; 842; 1271; 1412; 1732; 1934; 4179; 4369; 5674
BsiHKCI	C!YCGRG	5	835; 877; 1340; 1532; 1655
BsiSI	C!CGG	22	601; 761; 1328; 1533; 1733; 2708; 3284; 3971; 4048; 4070; 4098; 4229; 4319; 4386; 4567; 4842; 4850; 4942; 5416; 5606; 5632; 5779
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	29	49; 617; 779; 806; 912; 942; 1032; 1308; 1698; 1803; 2269; 2373; 2451; 2631; 3078; 3404; 3796; 4047; 4591; 4872; 4904; 5036; 5071; 5121; 5153; 5506; 5785; 5951; 5969
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4217; 4749; 4858
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3582; 3654; 3718; 5013
BsmI	GAATGCN!	1	2817
BsmI	G!CATTC	1	2910
BsmAI	GTCTCN!	2	434; 1816
BsmAI	!NNNNNGAGAC	6	1501; 2435; 3490; 3908; 4927; 5055
BsmBI	CGTCTCN!	1	1816
BsmBI	!NNNNNGAGACG	1	1501
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4217; 4749; 4858
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3582; 3654; 3718; 5013
BsnI	GG!CC	33	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1373; 1445; 1966; 2152; 2449; 2503; 2605; 3032; 3174; 3829; 3835; 3844; 3887; 3974; 4148; 4539; 4566; 5075; 5132; 5165; 5510; 5944; 5962; 5973
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	2435; 5055
BsoBI	C!YCGRG	5	835; 877; 1340; 1532; 1655
Bsp13I	T!CCGGA	1	1327
Bsp19I	C!CATGG	4	360; 2268; 3795; 4498
Bsp24I	GACNNNNNNNTGGNNNNNNNNNNNN!	3	289; 1532; 4869
Bsp24I	!NNNNNNNNCCANNNNNNNGTC	3	2032; 5290; 5468
Bsp24I	CCANNNNNNNGTCNNNNNNNNNNNN!	3	2064; 5322; 5500
Bsp24I	!NNNNNNNGACNNNNNNNTGG	3	257; 1500; 4837
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4748
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	27	585; 656; 740; 1109; 1193; 1336; 1682; 2213; 2701; 2710; 2723; 3903; 3907; 3926; 4237; 4315; 4396; 4405; 4483; 4859; 4875; 5234; 5246; 5324; 5332; 5343; 5418
Bsp1286I	GDGCH!C	24	650; 680; 779; 842; 1172; 1271; 1412; 1532; 1664; 1732; 1895; 1934; 2085; 2126; 2386; 2511; 3257; 4012; 4105; 4179; 4369; 4431; 5141; 5674
Bsp1407I	T!GTACA	1	1061
Bsp1720I	GC!TNAGC	1	2476
BspACI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 828; 936; 975; 1113; 1226; 1242; 1254; 1323; 1593; 2028; 2133; 3381; 3384; 3398; 3488; 3736; 3748; 3757; 3769; 3779; 3790; 3836; 3975; 4038; 4540; 4585; 4651; 4677; 4802; 4805; 4953; 5085; 5392; 5536; 6032
BspACI	G!CGG	28	370; 403; 528; 617; 701; 938; 1130; 1133; 3326; 3353; 3441; 3551; 4132; 4196; 4297; 4300; 4580; 4635; 4733; 4871; 5018; 5158; 5401; 5646; 5767; 5786; 5913; 5941
BspCNI	CTCAGNNNNNNNNN!	3	1346; 1828; 5191
BspCNI	!NNNNNNNCTGAG	11	1205; 1602; 2060; 2169; 2468; 2490; 3538; 3840; 4721; 5293; 5702
BspDI	AT!CGAT	1	3906
BspD6I	GACTCNNNN!	6	418; 1339; 1491; 3139; 4745; 5622
BspD6I	!NNNNNNGAGTC	3	1269; 3102; 3534
BspEI	T!CCGGA	1	1327
BspFNI	CG!CG	19	60; 701; 938; 977; 1256; 2954; 2990; 3366; 3386; 3410; 3441; 4132; 4433; 4871; 4955; 5018; 5087; 5360; 5941

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspHI	T!CATGA	2	3492; 5264
BspLI	GGN!NCC	23	467; 1185; 1556; 1587; 2082; 2123; 2315; 2383; 2432; 2703; 3221; 3242; 3254; 3445; 3606; 3678; 4067; 4102; 4950; 5029; 5074; 5917; 5956
BspMI	ACCTGCNNNN!	2	4334; 4784
BspMI	!NNNNNNNNGCAGGT	1	3953
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	2709; 2718; 3934; 4245; 4491; 4883; 5242; 5340; 5426
BspPI	!NNNNNGATCC	8	580; 1104; 1188; 2696; 4310; 4854; 5241; 5338
BspQI	GCTCTCN!	1	1606
BspQI	!NNNNGAAGAGC	2	4410; 4620
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4748
BspT107I	G!GYRCC	8	465; 1585; 2121; 2381; 2430; 3219; 4065; 4100
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	2435; 5055
BsrI	ACTGGN!	7	1587; 1782; 2394; 2566; 4010; 4211; 5457
BsrI	C!CAGT	9	295; 816; 1221; 1725; 2367; 3095; 3773; 5569; 5582
BsrBI	CCG!CTC	3	1325; 3490; 4679
BsrBI	GAG!CGG	3	617; 3326; 4733
BsrDI	GCAATGNN!	2	1401; 4299
BsrDI	!CATTGC	2	2336; 2492
BsrFI	R!CCGGY	7	600; 760; 1732; 3283; 4385; 4566; 4849
BsrGI	T!GTACA	1	1061
BsrSI	ACTGGN!	7	1587; 1782; 2394; 2566; 4010; 4211; 5457
BsrSI	C!CAGT	9	295; 816; 1221; 1725; 2367; 3095; 3773; 5569; 5582
BssAI	R!CCGGY	7	600; 760; 1732; 3283; 4385; 4566; 4849
BssECI	C!CNNGG	33	360; 778; 788; 806; 878; 936; 965; 1020; 1172; 1173; 1302; 1531; 1656; 1868; 1925; 2268; 2301; 2450; 2504; 3600; 3672; 3795; 3830; 3839; 3888; 4229; 4498; 4903; 5030; 5031; 5133; 5134; 5824
BssHII	G!CGCGC	0	
BssKI	!CCNGG	36	88; 281; 778; 788; 805; 890; 911; 965; 1019; 1091; 1172; 1271; 1373; 1418; 1531; 1532; 1868; 1925; 2117; 2433; 2444; 2503; 2513; 3600; 3655; 3672; 4068; 4228; 4451; 4841; 5030; 5133; 5605; 5823; 5836; 5957
BssMI	!GATC	27	585; 656; 740; 1109; 1193; 1336; 1682; 2213; 2701; 2710; 2723; 3903; 3907; 3926; 4237; 4315; 4396; 4405; 4483; 4859; 4875; 5234; 5246; 5324; 5332; 5343; 5418
BssNI	GR!CGYC	8	122; 175; 258; 444; 719; 4066; 4768; 4847
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4784; 5811
BssSI	C!TCGTG	1	4658
BssT1I	C!CWWGG	7	360; 2268; 2450; 3795; 3888; 4498; 4903
Bst6I	CTCTCN!	1	1606
Bst6I	!NNNNGAAGAG	3	3533; 4410; 4620
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 719; 4066; 4768; 4847
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	5	818; 1400; 3633; 3705; 5167
BstAUI	T!GTACA	1	1061
BstBI	TT!CGAA	1	4748
Bst2BI	C!ACGAG	2	4784; 5811
Bst2BI	C!TCGTG	1	4658
BstBAI	YAC!GTR	5	340; 1527; 2568; 3182; 4370
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 1563; 2302; 2427; 3157; 4446; 4562; 4670; 4993; 5484; 5954; 6025
BstC8I	GCN!NGC	46	86; 279; 593; 639; 697; 733; 766; 828; 1138; 1145; 1254; 1401; 1518; 1522; 1597; 1718; 2226; 2237; 2286; 2473; 2511; 2549; 3285; 3328; 3342; 3615; 3634; 3687; 3706; 3960; 4146; 4365; 4431; 4437; 4469; 4510; 4514; 4568; 4851; 5038; 5085; 5141; 5163; 5374; 5934; 5971
BstDEI	C!TNAG	15	1213; 1333; 1610; 1815; 2068; 2177; 2476; 2498; 2697; 3546; 3848; 4729; 5178; 5301; 5710
BstDSI	C!CRYGG	7	360; 936; 1302; 2268; 2301; 3795; 4498
BstEII	G!GTNACC	1	792

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstENI	CCTNN!NNNAGG	2	2449; 2629
BstF5I	GGATGNN!	5	2585; 3926; 4383; 4408; 4862
BstF5I	!CATCC	10	812; 887; 902; 1016; 1361; 1430; 1904; 2135; 2363; 3752
BstFNI	CG!CG	19	60; 701; 938; 977; 1256; 2954; 2990; 3366; 3386; 3410; 3441; 4132; 4433; 4871; 4955; 5018; 5087; 5360; 5941
BstH2I	RGCGC!Y	10	598; 872; 1046; 1289; 1517; 2007; 3333; 3341; 4069; 5744
BstHHI	GCG!C	29	597; 701; 871; 899; 1045; 1288; 1516; 2006; 2360; 3332; 3340; 3366; 3388; 3397; 3410; 3441; 4060; 4068; 4132; 4169; 4435; 4695; 4871; 4957; 5360; 5469; 5643; 5743; 5810
BstKTI	GAT!C	27	588; 659; 743; 1112; 1196; 1339; 1685; 2216; 2704; 2713; 2726; 3906; 3910; 3929; 4240; 4318; 4399; 4408; 4486; 4862; 4878; 5237; 5249; 5327; 5335; 5346; 5421
BstMAI	GTCTCN!	2	434; 1816
BstMAI	!NNNNNGAGAC	6	1501; 2435; 3490; 3908; 4927; 5055
BstMBI	!GATC	27	585; 656; 740; 1109; 1193; 1336; 1682; 2213; 2701; 2710; 2723; 3903; 3907; 3926; 4237; 4315; 4396; 4405; 4483; 4859; 4875; 5234; 5246; 5324; 5332; 5343; 5418
BstMCI	CGRY!CG	3	605; 3975; 5650
BstMWI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 660; 761; 774; 818; 1049; 1241; 1292; 1400; 1592; 2036; 2158; 2182; 2338; 2390; 2477; 2548; 3293; 3323; 3350; 3392; 3633; 3705; 3756; 3835; 4057; 4141; 4164; 4303; 4426; 4509; 4776; 4963; 5167; 5366; 5938
BstNI	CC!WGG	30	90; 283; 780; 790; 807; 892; 913; 967; 1021; 1093; 1174; 1273; 1375; 1420; 1870; 1927; 2119; 2435; 2446; 2505; 2515; 3602; 3657; 3674; 4453; 5032; 5135; 5825; 5838; 5959
BstNSI	RCATG!Y	5	2475; 3636; 3708; 4471; 5988
BstOI	CC!WGG	30	90; 283; 780; 790; 807; 892; 913; 967; 1021; 1093; 1174; 1273; 1375; 1420; 1870; 1927; 2119; 2435; 2446; 2505; 2515; 3602; 3657; 3674; 4453; 5032; 5135; 5825; 5838; 5959
BstPI	G!GTNACC	1	792
BstPAI	GACNN!NNGTC	1	1979
BstSCI	!CCNGG	36	88; 281; 778; 788; 805; 890; 911; 965; 1019; 1091; 1172; 1271; 1373; 1418; 1531; 1532; 1868; 1925; 2117; 2433; 2444; 2503; 2513; 3600; 3655; 3672; 4068; 4228; 4451; 4841; 5030; 5133; 5605; 5823; 5836; 5957
BstSFI	C!TRYAG	5	1883; 2204; 3401; 5528; 5719
BstSLI	GKGC!C	12	650; 680; 779; 1172; 1532; 1664; 1732; 2126; 2386; 4012; 4105; 5674
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 701; 938; 977; 1256; 2954; 2990; 3366; 3386; 3410; 3441; 4132; 4433; 4871; 4955; 5018; 5087; 5360; 5941
Bst2UI	CC!WGG	30	90; 283; 780; 790; 807; 892; 913; 967; 1021; 1093; 1174; 1273; 1375; 1420; 1870; 1927; 2119; 2435; 2446; 2505; 2515; 3602; 3657; 3674; 4453; 5032; 5135; 5825; 5838; 5959
BstV1I	GCAGCNNNNNNN!	9	1152; 1626; 2372; 2854; 4139; 4181; 4702; 5155; 5655
BstV1I	!NNNNNNNNNNNGCTGC	12	755; 1204; 1626; 2275; 2319; 2607; 3348; 4013; 4197; 4290; 5356; 5562
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	1	1729
BstXI	CCANNNNN!NTGG	3	1441; 1765; 2247
BstX2I	R!GATCY	12	585; 1109; 1336; 2701; 2710; 4237; 4483; 4875; 5234; 5246; 5332; 5343
BstYI	R!GATCY	12	585; 1109; 1336; 2701; 2710; 4237; 4483; 4875; 5234; 5246; 5332; 5343
BstZI	C!GGCCG	1	3972
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3495; 4285; 5786
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3906
Bsu36I	CC!TNAGG	2	3546; 5178
BsuRI	GG!CC	33	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1373; 1445; 1966; 2152; 2449; 2503; 2605; 3032; 3174; 3829; 3835; 3844; 3887; 3974; 4148; 4539; 4566; 5075; 5132; 5165; 5510; 5944; 5962; 5973
BsuTUI	AT!CGAT	1	3906
BtgI	C!CRYGG	7	360; 936; 1302; 2268; 2301; 3795; 4498
BtgZI	GCGATGNNNNNNNNN!	3	1193; 3183; 4518
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 4337; 4681



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BthCI	GCNG!C	39	771; 941; 1133; 1136; 1143; 1220; 1617; 1642; 2291; 2335; 2363; 2623; 2845; 3364; 3386; 3400; 3838; 3977; 4029; 4040; 4130; 4135; 4172; 4213; 4300; 4306; 4542; 4638; 4679; 4693; 4807; 5146; 5161; 5372; 5578; 5581; 5646; 5789; 5944
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	2	675; 2310
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	2	2057; 2905
BtsCI	GGATGNN!	5	2585; 3926; 4383; 4408; 4862
BtsCI	!CATCC	10	812; 887; 902; 1016; 1361; 1430; 1904; 2135; 2363; 3752
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4334; 4784
BveI	!NNNNNNNNGCAGGT	1	3953
Cac8I	GCN!NGC	46	86; 279; 593; 639; 697; 733; 766; 828; 1138; 1145; 1254; 1401; 1518; 1522; 1597; 1718; 2226; 2237; 2286; 2473; 2511; 2549; 3285; 3328; 3342; 3615; 3634; 3687; 3706; 3960; 4146; 4365; 4431; 4437; 4469; 4510; 4514; 4568; 4851; 5038; 5085; 5141; 5163; 5374; 5934; 5971
CaiI	CAGNNN!CTG	2	5167; 5575
CciI	T!CATGA	2	3492; 5264
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 645; 1125; 4355; 4360; 4558; 4699
CdiI	C!GATG	4	1179; 1440; 3169; 4504
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5938
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3727; 3769
CelII	GC!TNAGC	1	2476
CfoI	GCG!C	29	597; 701; 871; 899; 1045; 1288; 1516; 2006; 2360; 3332; 3340; 3366; 3388; 3397; 3410; 3441; 4060; 4068; 4132; 4169; 4435; 4695; 4871; 4957; 5360; 5469; 5643; 5743; 5810
CfrI	Y!GGCCR	10	681; 1145; 1371; 1443; 2150; 2447; 3972; 4146; 4537; 4564
Cfr9I	C!CCGGG	1	1532
Cfr10I	R!CCGGY	7	600; 760; 1732; 3283; 4385; 4566; 4849
Cfr13I	G!GNCC	15	83; 276; 782; 1023; 1183; 1239; 1701; 2517; 2604; 3173; 4582; 5027; 5073; 5131; 5164
Cfr42I	CCGC!GG	1	939
ChaI	GATC!	27	589; 660; 744; 1113; 1197; 1340; 1686; 2217; 2705; 2714; 2727; 3907; 3911; 3930; 4241; 4319; 4400; 4409; 4487; 4863; 4879; 5238; 5250; 5328; 5336; 5347; 5422
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	2065; 3883; 5323; 5423; 5501
CjeI	!NNNNNNNNNACNNNNNTGG	9	64; 257; 1500; 1767; 3550; 3645; 4837; 5387; 5942
CjeI	ACNNNNNTGGNNNNNNNNNNNNNN!	9	98; 291; 1534; 1801; 3584; 3679; 4871; 5421; 5976
CjeI	!NNNNNNNNCCANNNNNNGT	5	2031; 3849; 5289; 5389; 5467
CjePI	CCANNNNNNTCNNNNNNNNNNNNNN!	3	2065; 5323; 5501
CjePI	!NNNNNNNNGANNNNNNTGG	5	257; 1500; 2061; 4837; 5436
CjePI	GANNNNNNNTGGNNNNNNNNNNNN!	5	290; 1533; 2094; 4870; 5469
CjePI	!NNNNNNNNCCANNNNNNTC	3	2032; 5290; 5468
ClaI	AT!CGAT	1	3906
CpoI	CG!GWCCG	1	4582
CseI	GACGCNNNNN!	4	526; 727; 4776; 4855
CseI	!NNNNNNNNNNGCGTC	4	966; 3399; 5294; 5872
CsiI	A!CCWGGT	2	2117; 3655
CspI	CG!GWCCG	1	4582
Csp6I	G!TAC	14	218; 243; 298; 331; 382; 539; 927; 1038; 1062; 1320; 2298; 2455; 2565; 4371
Csp45I	TT!CGAA	1	4748
CspAI	A!CCGGT	2	600; 1732
CspCI	CAANNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	2	1548; 2475
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	2	1583; 2510
CspCI	!NNNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	5	1028; 1703; 2691; 3346; 4955
CstMI	!NNNNNNNNNNNNNNNNNNNCTCCT	1	1466
CviAII	C!ATG	27	301; 361; 612; 843; 873; 1068; 1263; 1308; 1803; 1950; 2191; 2269; 2280; 2472; 3493; 3633; 3705; 3796; 3937; 4282; 4468; 4499; 4525; 4881; 5265; 5985; 6036

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviJI	RG!CY	122	42; 84; 93; 277; 566; 630; 663; 683; 735; 768; 783; 884; 984; 998; 1025; 1081; 1091; 1143; 1147; 1184; 1217; 1252; 1317; 1373; 1378; 1410; 1437; 1445; 1537; 1599; 1617; 1716; 1720; 1745; 1763; 1842; 1882; 1893; 1966; 2039; 2083; 2152; 2185; 2199; 2235; 2239; 2284; 2393; 2418; 2449; 2464; 2491; 2503; 2509; 2605; 2620; 2735; 2845; 3012; 3032; 3174; 3255; 3269; 3283; 3564; 3605; 3677; 3800; 3829; 3835; 3844; 3852; 3875; 3887; 3893; 3974; 3991; 3999; 4026; 4051; 4135; 4144; 4148; 4172; 4210; 4286; 4303; 4322; 4385; 4429; 4439; 4456; 4539; 4566; 4570; 4607; 4630; 4646; 4826; 4853; 4914; 5036; 5075; 5132; 5139; 5146; 5165; 5176; 5427; 5456; 5499; 5510; 5575; 5654; 5679; 5684; 5730; 5820; 5918; 5944; 5962; 5973
CviKI-1	RG!CY	122	42; 84; 93; 277; 566; 630; 663; 683; 735; 768; 783; 884; 984; 998; 1025; 1081; 1091; 1143; 1147; 1184; 1217; 1252; 1317; 1373; 1378; 1410; 1437; 1445; 1537; 1599; 1617; 1716; 1720; 1745; 1763; 1842; 1882; 1893; 1966; 2039; 2083; 2152; 2185; 2199; 2235; 2239; 2284; 2393; 2418; 2449; 2464; 2491; 2503; 2509; 2605; 2620; 2735; 2845; 3012; 3032; 3174; 3255; 3269; 3283; 3564; 3605; 3677; 3800; 3829; 3835; 3844; 3852; 3875; 3887; 3893; 3974; 3991; 3999; 4026; 4051; 4135; 4144; 4148; 4172; 4210; 4286; 4303; 4322; 4385; 4429; 4439; 4456; 4539; 4566; 4570; 4607; 4630; 4646; 4826; 4853; 4914; 5036; 5075; 5132; 5139; 5146; 5165; 5176; 5427; 5456; 5499; 5510; 5575; 5654; 5679; 5684; 5730; 5820; 5918; 5944; 5962; 5973
CviQI	G!TAC	14	218; 243; 298; 331; 382; 539; 927; 1038; 1062; 1320; 2298; 2455; 2565; 4371
DdeI	C!TNAG	15	1213; 1333; 1610; 1815; 2068; 2177; 2476; 2498; 2697; 3546; 3848; 4729; 5178; 5301; 5710
DinI	GGC!GCC	1	4067
DpnI	GA!TC	27	587; 658; 742; 1111; 1195; 1338; 1684; 2215; 2703; 2712; 2725; 3905; 3909; 3928; 4239; 4317; 4398; 4407; 4485; 4861; 4877; 5236; 5248; 5326; 5334; 5345; 5420
DpnII	!GATC	27	585; 656; 740; 1109; 1193; 1336; 1682; 2213; 2701; 2710; 2723; 3903; 3907; 3926; 4237; 4315; 4396; 4405; 4483; 4859; 4875; 5234; 5246; 5324; 5332; 5343; 5418
DraI	TTT!AAA	3	2768; 5210; 5229
DraII	RG!GNCCY	1	5164
DraIII	CACNNN!GTG	2	1266; 3182
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	5	266; 950; 1262; 1547; 5546
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	3	3137; 4093; 5882
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	2	476; 1963
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	3137; 4093; 5882
EaeI	Y!GGCCR	10	681; 1145; 1371; 1443; 2150; 2447; 3972; 4146; 4537; 4564
EagI	C!GGCCG	1	3972
Eam1104I	CTCTCN!	1	1606
Eam1104I	!NNNNGAAGAG	3	3533; 4410; 4620
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	1	1606
EarI	!NNNNGAAGAG	3	3533; 4410; 4620
EciI	GGCGANNNNNNNNNNNNNN!	4	3566; 4595; 5782; 5928
EciI	!NNNNNNNNNTCCGCC	6	496; 1102; 1215; 3737; 3758; 3779
Ecl136II	GAG!CTC	1	1410
EclXI	C!GGCCG	1	3972
Eco24I	GRGCY!C	7	1412; 1895; 2085; 2511; 3257; 4431; 5141
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	2435; 5055
Eco32I	GAT!ATC	1	1998
Eco47I	G!GWCC	5	1239; 1701; 2517; 4582; 5027
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	1	3972
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	1006; 4212; 4644
Eco57I	!NNNNNNNNNNNNNNNNCTTCAG	4	1266; 1485; 1723; 5442
Eco72I	CAC!GTG	1	1527
Eco81I	CC!TNAGG	2	3546; 5178
Eco88I	C!YCGRG	5	835; 877; 1340; 1532; 1655

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco91I	G!GTNACC	1	792
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	7	360; 2268; 2450; 3795; 3888; 4498; 4903
Eco147I	AGG!CCT	2	2503; 3887
EcoHI	!CCSGG	6	1531; 1532; 4068; 4228; 4841; 5605
EcoICRI	GAG!CTC	1	1410
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	9	757; 1006; 1114; 1294; 1864; 1948; 4212; 4644; 4906
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	1266; 1485; 1723; 4849; 5442
EcoNI	CCTNN!NNNAGG	2	2449; 2629
EcoO65I	G!GTNACC	1	792
EcoO109I	RG!GNCCY	1	5164
EcoRI	G!AATTC	2	1706; 2104
EcoRII	!CCWGG	30	88; 281; 778; 788; 805; 890; 911; 965; 1019; 1091; 1172; 1271; 1373; 1418; 1868; 1925; 2117; 2433; 2444; 2503; 2513; 3600; 3655; 3672; 4451; 5030; 5133; 5823; 5836; 5957
EcoRV	GAT!ATC	1	1998
EcoT14I	C!CWWGG	7	360; 2268; 2450; 3795; 3888; 4498; 4903
EcoT22I	ATGCA!T	3	3638; 3710; 6041
EcoT38I	GRGCY!C	7	1412; 1895; 2085; 2511; 3257; 4431; 5141
Eco53kI	GAG!CTC	1	1410
EgeI	GGC!GCC	1	4067
EheI	GGC!GCC	1	4067
ErhI	C!CWWGG	7	360; 2268; 2450; 3795; 3888; 4498; 4903
EsaBC3I	TC!GA	18	660; 954; 981; 1125; 1342; 1995; 2001; 3216; 3907; 4180; 4336; 4360; 4396; 4558; 4749; 4794; 5049; 5887
Esp3I	CGTCTCN!	1	1816
Esp3I	!NNNNNGAGACG	1	1501
FaeI	CATG!	27	304; 364; 615; 846; 876; 1071; 1266; 1311; 1806; 1953; 2194; 2272; 2283; 2475; 3496; 3636; 3708; 3799; 3940; 4285; 4471; 4502; 4528; 4884; 5268; 5988; 6039
Fail	YA!TR	71	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 613; 844; 874; 1069; 1264; 1309; 1652; 1804; 1826; 1951; 1973; 2157; 2159; 2192; 2270; 2281; 2473; 2540; 2617; 2639; 2728; 2738; 2804; 2849; 3054; 3482; 3494; 3625; 3634; 3697; 3706; 3730; 3797; 3821; 3938; 4002; 4283; 4308; 4469; 4500; 4526; 4598; 4814; 4882; 4960; 5012; 5173; 5190; 5192; 5194; 5266; 5544; 5733; 5849; 5922; 5986; 6037
FalI	AAGNNNNNCTNNNNNNNNNNNN!	2	2568; 4406
FalI	!NNNNNNNNAAGNNNNNCTT	2	2536; 4374
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4217; 4749; 4858
FaqI	!NNNNNNNNNNNNNGTCCC	4	3582; 3654; 3718; 5013
FatI	!CATG	27	300; 360; 611; 842; 872; 1067; 1262; 1307; 1802; 1949; 2190; 2268; 2279; 2471; 3492; 3632; 3704; 3795; 3936; 4281; 4467; 4498; 4524; 4880; 5264; 5984; 6035
FauI	CCCGCNNNN!	12	93; 119; 286; 835; 943; 1261; 2140; 3388; 3743; 3764; 4960; 5092
FauI	!NNNNNNNGCGGG	6	610; 3319; 4189; 4726; 4864; 5011
FauNDI	CA!TATG	2	234; 2157
FbaI	T!GATCA	1	2723
FblI	GT!MKAC	2	1547; 1955
FmuI	GGNC!C	15	86; 279; 785; 1026; 1186; 1242; 1704; 2520; 2607; 3176; 4585; 5030; 5076; 5134; 5167
Fnu4HI	GC!NGC	39	769; 939; 1131; 1134; 1141; 1218; 1615; 1640; 2289; 2333; 2361; 2621; 2843; 3362; 3384; 3398; 3836; 3975; 4027; 4038; 4128; 4133; 4170; 4211; 4298; 4304; 4540; 4636; 4677; 4691; 4805; 5144; 5159; 5370; 5576; 5579; 5644; 5787; 5942
FokI	GGATGNNNNNNNNN!	5	2592; 3933; 4390; 4415; 4869
FokI	!NNNNNNNNNNNNNCATCC	9	799; 874; 1003; 1348; 1417; 1891; 2122; 2350; 3739
FriOI	GRGCY!C	7	1412; 1895; 2085; 2511; 3257; 4431; 5141
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	4168
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	8	592; 2714; 2915; 3333; 3889; 4904; 5238; 5491

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	209	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 697; 735; 771; 785; 801; 819; 840; 885; 904; 919; 948; 978; 1033; 1059; 1085; 1105; 1126; 1161; 1176; 1198; 1212; 1234; 1255; 1273; 1293; 1309; 1336; 1374; 1399; 1413; 1432; 1447; 1466; 1500; 1544; 1571; 1602; 1618; 1656; 1683; 1705; 1738; 1771; 1806; 1851; 1866; 1880; 1907; 1921; 1935; 1959; 1980; 2005; 2020; 2035; 2053; 2067; 2097; 2122; 2138; 2152; 2166; 2199; 2232; 2249; 2275; 2305; 2330; 2349; 2367; 2398; 2428; 2447; 2463; 2499; 2517; 2533; 2556; 2619; 2637; 2718; 2749; 2788; 2802; 2943; 3038; 3062; 3085; 3108; 3126; 3148; 3169; 3188; 3207; 3236; 3257; 3271; 3297; 3385; 3411; 3460; 3501; 3519; 3558; 3574; 3612; 3669; 3684; 3741; 3761; 3775; 3792; 3806; 3843; 3858; 3901; 3984; 4051; 4082; 4102; 4117; 4162; 4176; 4242; 4256; 4275; 4291; 4332; 4352; 4399; 4449; 4465; 4485; 4510; 4530; 4553; 4580; 4598; 4624; 4664; 4690; 4714; 4770; 4784; 4812; 4855; 4876; 4911; 4955; 5043; 5067; 5089; 5109; 5125; 5146; 5160; 5179; 5263; 5283; 5311; 5326; 5360; 5402; 5429; 5444; 5489; 5513; 5527; 5549; 5575; 5595; 5619; 5645; 5693; 5712; 5731; 5757; 5792; 5837; 5867; 5881; 5932; 5946; 5971; 5987; 6008; 6037
FspEI	!NNNNNNNNNNNNNGG	168	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 604; 623; 649; 686; 713; 746; 765; 792; 865; 898; 923; 941; 973; 991; 1018; 1063; 1081; 1111; 1129; 1159; 1222; 1249; 1289; 1313; 1355; 1376; 1405; 1427; 1454; 1495; 1518; 1537; 1568; 1610; 1643; 1663; 1684; 1702; 1726; 1751; 1769; 1789; 1811; 1855; 1912; 1936; 2063; 2104; 2134; 2233; 2255; 2288; 2359; 2383; 2413; 2431; 2485; 2547; 2566; 2587; 2617; 2638; 2656; 2674; 2693; 2737; 2837; 2906; 3014; 3063; 3085; 3113; 3149; 3194; 3223; 3259; 3278; 3306; 3326; 3389; 3412; 3520; 3552; 3570; 3599; 3642; 3671; 3782; 3811; 3854; 3875; 3903; 3936; 3956; 3981; 4008; 4033; 4055; 4083; 4109; 4130; 4181; 4202; 4220; 4268; 4304; 4360; 4385; 4409; 4438; 4461; 4485; 4511; 4533; 4552; 4577; 4617; 4653; 4718; 4803; 4827; 4856; 4890; 4911; 4931; 4976; 5003; 5022; 5055; 5107; 5138; 5165; 5217; 5315; 5386; 5431; 5492; 5557; 5591; 5617; 5635; 5671; 5741; 5764; 5786; 5810; 5843; 5891; 5926; 5944; 6001
Fsp4HI	GC!NGC	39	769; 939; 1131; 1134; 1141; 1218; 1615; 1640; 2289; 2333; 2361; 2621; 2843; 3362; 3384; 3398; 3836; 3975; 4027; 4038; 4128; 4133; 4170; 4211; 4298; 4304; 4540; 4636; 4677; 4691; 4805; 5144; 5159; 5370; 5576; 5579; 5644; 5787; 5942
GdiII	C!GGCCR	2	681; 3972
GdiII	Y!GGCCG	4	1145; 3972; 4537; 4564
GlaI	GC!GC	29	596; 700; 870; 898; 1044; 1287; 1515; 2005; 2359; 3331; 3339; 3365; 3387; 3396; 3409; 3440; 4059; 4067; 4131; 4168; 4434; 4694; 4870; 4956; 5359; 5468; 5642; 5742; 5809
GluI	GC!NGC	39	769; 939; 1131; 1134; 1141; 1218; 1615; 1640; 2289; 2333; 2361; 2621; 2843; 3362; 3384; 3398; 3836; 3975; 4027; 4038; 4128; 4133; 4170; 4211; 4298; 4304; 4540; 4636; 4677; 4691; 4805; 5144; 5159; 5370; 5576; 5579; 5644; 5787; 5942
GsaI	CCCAG!C	4	1864; 3613; 3685; 5684
GsaI	GCTGG!G	2	1407; 4574
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	6	757; 1114; 1294; 1864; 1948; 4906
GsuI	!NNNNNNNNNNNNNCTCCAG	1	4849
HaeI	WGG!CCW	12	1081; 1373; 1445; 1966; 2152; 2449; 2503; 3887; 4148; 5510; 5962; 5973
HaeII	RGCGC!Y	10	598; 872; 1046; 1289; 1517; 2007; 3333; 3341; 4069; 5744
HaeIII	GG!CC	33	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1373; 1445; 1966; 2152; 2449; 2503; 2605; 3032; 3174; 3829; 3835; 3844; 3887; 3974; 4148; 4539; 4566; 5075; 5132; 5165; 5510; 5944; 5962; 5973
HaeIV	GAYNNNNNNRTCNNNNNNNNNNNN!	2	2741; 4262
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	2707; 4228
HaeIV	GAYNNNNNNRTCNNNNNNNNNNNN!	2	2740; 4261
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	2709; 4230
HapII	C!CGG	22	601; 761; 1328; 1533; 1733; 2708; 3284; 3971; 4048; 4070; 4098; 4229; 4319; 4386; 4567; 4842; 4850; 4942; 5416; 5606; 5632; 5779
HgaI	GACGCNNNNN!	4	526; 727; 4776; 4855
HgaI	!NNNNNNNNNGCGTC	4	966; 3399; 5294; 5872

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HhaI	GCG!C	29	597; 701; 871; 899; 1045; 1288; 1516; 2006; 2360; 3332; 3340; 3366; 3388; 3397; 3410; 3441; 4060; 4068; 4132; 4169; 4435; 4695; 4871; 4957; 5360; 5469; 5643; 5743; 5810
Hin1I	GR!CGYC	8	122; 175; 258; 444; 719; 4066; 4768; 4847
Hin1II	CATG!	27	304; 364; 615; 846; 876; 1071; 1266; 1311; 1806; 1953; 2194; 2272; 2283; 2475; 3496; 3636; 3708; 3799; 3940; 4285; 4471; 4502; 4528; 4884; 5268; 5988; 6039
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	2740; 4261
Hin4I	!NNNNNNNNGABNNNNNRTC	3	2708; 4229; 4259
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	2740; 4261; 4291
Hin4I	!NNNNNNNNGAYNNNNNVTC	2	2708; 4229
Hin6I	G!CGC	29	595; 699; 869; 897; 1043; 1286; 1514; 2004; 2358; 3330; 3338; 3364; 3386; 3395; 3408; 3439; 4058; 4066; 4130; 4167; 4433; 4693; 4869; 4955; 5358; 5467; 5641; 5741; 5808
HinP1I	G!CGC	29	595; 699; 869; 897; 1043; 1286; 1514; 2004; 2358; 3330; 3338; 3364; 3386; 3395; 3408; 3439; 4058; 4066; 4130; 4167; 4433; 4693; 4869; 4955; 5358; 5467; 5641; 5741; 5808
HincII	GTY!RAC	2	2094; 2829
HindII	GTY!RAC	2	2094; 2829
HindIII	A!AGCTT	0	
HinfI	G!ANTC	15	410; 1276; 1331; 1483; 2656; 3109; 3131; 3541; 4551; 4685; 4737; 4795; 4832; 5614; 6010
HpaI	GTT!AAC	1	2829
HpaII	C!CGG	22	601; 761; 1328; 1533; 1733; 2708; 3284; 3971; 4048; 4070; 4098; 4229; 4319; 4386; 4567; 4842; 4850; 4942; 5416; 5606; 5632; 5779
HphI	GGTGANNNNNNN!	11	376; 715; 804; 957; 981; 2262; 2317; 2584; 2686; 5137; 5253
HphI	!NNNNNNNTCACC	5	1782; 1902; 2208; 3183; 4244
Hpy8I	GTN!NAC	17	201; 539; 577; 678; 972; 1062; 1548; 1730; 1790; 1956; 2094; 2559; 2829; 3113; 3130; 3185; 5672
Hpy99I	CGWCG!	11	676; 721; 922; 982; 4156; 4184; 4478; 4493; 4770; 5155; 5888
Hpy166II	GTN!NAC	17	201; 539; 577; 678; 972; 1062; 1548; 1730; 1790; 1956; 2094; 2559; 2829; 3113; 3130; 3185; 5672
Hpy188I	TCN!GA	14	585; 1336; 1938; 2601; 3240; 3849; 4033; 4377; 4730; 4831; 5310; 5444; 5797; 5875
Hpy188III	TC!NNGA	26	864; 1107; 1328; 1340; 1386; 2109; 2714; 3493; 3545; 3858; 3911; 4084; 4400; 4409; 4492; 4548; 4592; 4682; 4715; 4784; 5265; 5339; 5422; 5520; 5618; 5752
HpyAV	CCTTCNNNNNN!	6	1290; 1497; 1956; 4711; 4818; 5497
HpyAV	!NNNNNGAAGG	12	981; 2581; 2625; 2659; 2677; 3299; 4194; 4923; 4939; 5122; 5439; 5749
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 1563; 2302; 2427; 3157; 4446; 4562; 4670; 4993; 5484; 5954; 6025
HpyCH4IV	A!CGT	22	122; 134; 175; 258; 339; 444; 674; 1058; 1166; 1367; 1526; 1809; 2309; 2567; 3126; 3138; 3181; 3291; 4182; 4369; 5150; 5283
HpyCH4V	TG!CA	22	678; 755; 1140; 1355; 1730; 2471; 2815; 2842; 2910; 3627; 3636; 3699; 3708; 3823; 3899; 3958; 4117; 4292; 4306; 5376; 5672; 6039
HpyF3I	C!TNAG	15	1213; 1333; 1610; 1815; 2068; 2177; 2476; 2498; 2697; 3546; 3848; 4729; 5178; 5301; 5710
HpyF10VI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 660; 761; 774; 818; 1049; 1241; 1292; 1400; 1592; 2036; 2158; 2182; 2338; 2390; 2477; 2548; 3293; 3323; 3350; 3392; 3633; 3705; 3756; 3835; 4057; 4141; 4164; 4303; 4426; 4509; 4776; 4963; 5167; 5366; 5938
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 719; 4066; 4768; 4847
Hsp92II	CATG!	27	304; 364; 615; 846; 876; 1071; 1266; 1311; 1806; 1953; 2194; 2272; 2283; 2475; 3496; 3636; 3708; 3799; 3940; 4285; 4471; 4502; 4528; 4884; 5268; 5988; 6039
HspAI	G!CGC	29	595; 699; 869; 897; 1043; 1286; 1514; 2004; 2358; 3330; 3338; 3364; 3386; 3395; 3408; 3439; 4058; 4066; 4130; 4167; 4433; 4693; 4869; 4955; 5358; 5467; 5641; 5741; 5808
KasI	G!GCGCC	1	4065
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1327
KspI	CCGC!GG	1	939
Ksp22I	T!GATCA	1	2723

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
KspAI	GTT!AAC	1	2829
Kzo9I	!GATC	27	585; 656; 740; 1109; 1193; 1336; 1682; 2213; 2701; 2710; 2723; 3903; 3907; 3926; 4237; 4315; 4396; 4405; 4483; 4859; 4875; 5234; 5246; 5324; 5332; 5343; 5418
LguI	GCTCTTCN!	1	1606
LguI	!NNNNGAAGAGC	2	4410; 4620
LpnI	RGCI!GCY	10	596; 870; 1044; 1287; 1515; 2005; 3331; 3339; 4067; 5742
LpnPI	CCDGNNNNNNNNN!	83	102; 295; 614; 774; 792; 819; 904; 925; 979; 1033; 1105; 1171; 1186; 1225; 1285; 1341; 1387; 1413; 1432; 1447; 1546; 1609; 1738; 1810; 1874; 1939; 2053; 2080; 2098; 2122; 2177; 2249; 2305; 2380; 2428; 2447; 2517; 2545; 2721; 2803; 3108; 3297; 3520; 3558; 3574; 3614; 3669; 3686; 3786; 3871; 3984; 4061; 4083; 4106; 4242; 4256; 4275; 4332; 4399; 4449; 4465; 4522; 4580; 4789; 4855; 4879; 4955; 5044; 5147; 5180; 5411; 5429; 5575; 5595; 5619; 5645; 5694; 5792; 5837; 5867; 5946; 5971; 6008
LpnPI	!NNNNNNNNNNNNNNCHGG	78	75; 268; 552; 586; 623; 649; 721; 746; 765; 792; 877; 898; 952; 1006; 1078; 1129; 1159; 1258; 1313; 1360; 1389; 1502; 1568; 1610; 1702; 1726; 1763; 1828; 1855; 1912; 2104; 2134; 2375; 2420; 2490; 2547; 2693; 3149; 3269; 3326; 3389; 3587; 3599; 3659; 3671; 3903; 3948; 3991; 4033; 4055; 4083; 4130; 4192; 4214; 4304; 4371; 4394; 4438; 4533; 4552; 4577; 4726; 4827; 4870; 4927; 5017; 5120; 5147; 5165; 5401; 5438; 5591; 5617; 5757; 5775; 5810; 5891; 5944
Lsp1109I	GCAGCNNNNNNNN!	9	1152; 1626; 2372; 2854; 4139; 4181; 4702; 5155; 5655
Lsp1109I	!NNNNNNNNNNNNNGTGC	12	755; 1204; 1626; 2275; 2319; 2607; 3348; 4013; 4197; 4290; 5356; 5562
LweI	GCATCNNNNN!	13	650; 821; 1364; 1439; 2144; 2372; 2414; 2882; 3645; 3717; 4365; 4429; 4704
LweI	!NNNNNNNNNGATGC	7	357; 1439; 1626; 4024; 4279; 4495; 5887
MabI	A!CCWGGT	2	2117; 3655
MaeI	C!TAG	8	592; 2714; 2915; 3333; 3889; 4904; 5238; 5491
MaeII	A!CGT	22	122; 134; 175; 258; 339; 444; 674; 1058; 1166; 1367; 1526; 1809; 2309; 2567; 3126; 3138; 3181; 3291; 4182; 4369; 5150; 5283
MaeIII	!GTNAC	16	61; 148; 497; 792; 1456; 2257; 2305; 2854; 3355; 3367; 4186; 4492; 5182; 5448; 5564; 5627
MalI	GA!TC	27	587; 658; 742; 1111; 1195; 1338; 1684; 2215; 2703; 2712; 2725; 3905; 3909; 3928; 4239; 4317; 4398; 4407; 4485; 4861; 4877; 5236; 5248; 5326; 5334; 5345; 5420
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	5	144; 197; 466; 540; 1713
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	4	157; 240; 426; 2306
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	3	1325; 3490; 4679
MbiI	GAG!CGG	3	617; 3326; 4733
MboI	!GATC	27	585; 656; 740; 1109; 1193; 1336; 1682; 2213; 2701; 2710; 2723; 3903; 3907; 3926; 4237; 4315; 4396; 4405; 4483; 4859; 4875; 5234; 5246; 5324; 5332; 5343; 5418
MboII	GAAGANNNNNNNN!	9	858; 1645; 2623; 2692; 3322; 3550; 4427; 4637; 5256
MboII	!NNNNNNNTCTTC	8	852; 1491; 1593; 1729; 4717; 4884; 5084; 5327
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2816
MflI	R!GATCY	12	585; 1109; 1336; 2701; 2710; 4237; 4483; 4875; 5234; 5246; 5332; 5343
MhII	GDGCH!C	24	650; 680; 779; 842; 1172; 1271; 1412; 1532; 1664; 1732; 1895; 1934; 2085; 2126; 2386; 2511; 3257; 4012; 4105; 4179; 4369; 4431; 5141; 5674
MlsI	TGG!CCA	5	1373; 1445; 2152; 2449; 4148
MluI	A!CGCGT	1	2952
MluNI	TGG!CCA	5	1373; 1445; 2152; 2449; 4148
MlyI	GAGTCNNNNN!	3	1285; 3118; 3550
MlyI	!NNNNNGACTC	6	404; 1325; 1477; 3125; 4731; 5608
Mly113I	GG!CGCC	1	4066
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	1	3159
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	4	1013; 1679; 5591; 5775
MnII	CCTCNNNNNNN!	15	811; 1803; 1918; 2002; 2061; 2156; 2273; 2429; 2785; 3849; 4667; 4873; 5187; 5557; 5881

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MnII	!NNNNNNGAGG	31	541; 618; 699; 873; 936; 948; 987; 999; 1089; 1119; 1468; 1651; 1956; 2493; 2568; 2595; 2634; 2664; 2682; 2745; 3210; 3541; 3819; 3862; 3877; 3917; 3981; 4117; 4474; 4904; 5807
Mph1103I	ATGCA!T	3	3638; 3710; 6041
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1327
MroNI	G!CCGGC	3	3283; 4566; 4849
MroXI	GAANN!NNTTC	2	856; 1779
MscI	TGG!CCA	5	1373; 1445; 2152; 2449; 4148
MseI	T!TAA	16	7; 2024; 2767; 2828; 2949; 2970; 2981; 2993; 3004; 3021; 3119; 3390; 5209; 5223; 5228; 5280
MslI	CAYNN!NNRTG	6	365; 790; 847; 967; 2428; 4503
MspI	C!CGG	22	601; 761; 1328; 1533; 1733; 2708; 3284; 3971; 4048; 4070; 4098; 4229; 4319; 4386; 4567; 4842; 4850; 4942; 5416; 5606; 5632; 5779
Msp20I	TGG!CCA	5	1373; 1445; 2152; 2449; 4148
MspAII	CMG!CKG	7	938; 1143; 1882; 3564; 4172; 5401; 5646
MspCI	C!TTAAG	0	
MspJI	CNNRRNNNNNNNN!	307	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; 630; 650; 663; 676; 691; 708; 734; 748; 773; 786; 801; 814; 828; 847; 876; 889; 903; 924; 942; 966; 979; 993; 1014; 1032; 1071; 1084; 1104; 1119; 1137; 1156; 1170; 1185; 1198; 1224; 1248; 1265; 1284; 1301; 1315; 1340; 1354; 1378; 1391; 1412; 1431; 1446; 1459; 1473; 1523; 1537; 1563; 1591; 1608; 1621; 1635; 1655; 1668; 1689; 1705; 1723; 1737; 1753; 1771; 1790; 1809; 1827; 1842; 1855; 1872; 1890; 1907; 1921; 1938; 1962; 1996; 2013; 2030; 2044; 2079; 2097; 2110; 2126; 2144; 2161; 2176; 2189; 2203; 2222; 2237; 2252; 2276; 2292; 2314; 2329; 2361; 2379; 2398; 2427; 2446; 2462; 2484; 2499; 2516; 2533; 2555; 2574; 2604; 2618; 2638; 2709; 2726; 2739; 2754; 2773; 2790; 2803; 2844; 2858; 2871; 2889; 2927; 2942; 2960; 3001; 3025; 3045; 3063; 3084; 3107; 3139; 3154; 3176; 3194; 3207; 3228; 3245; 3258; 3271; 3287; 3300; 3330; 3345; 3370; 3388; 3401; 3416; 3440; 3454; 3478; 3503; 3519; 3557; 3573; 3612; 3626; 3640; 3668; 3684; 3698; 3712; 3741; 3754; 3775; 3784; 3806; 3836; 3852; 3870; 3900; 3923; 3947; 3971; 3990; 4018; 4044; 4060; 4073; 4096; 4110; 4130; 4143; 4157; 4176; 4190; 4203; 4219; 4234; 4247; 4263; 4278; 4294; 4319; 4338; 4354; 4367; 4380; 4398; 4412; 4426; 4442; 4464; 4480; 4499; 4521; 4537; 4560; 4579; 4593; 4609; 4623; 4643; 4659; 4672; 4694; 4727; 4741; 4761; 4774; 4788; 4842; 4855; 4878; 4891; 4910; 4927; 4954; 4990; 5023; 5042; 5067; 5088; 5115; 5128; 5145; 5159; 5174; 5190; 5250; 5275; 5291; 5313; 5326; 5340; 5371; 5385; 5410; 5428; 5443; 5456; 5475; 5488; 5503; 5532; 5551; 5569; 5594; 5609; 5628; 5644; 5663; 5681; 5697; 5711; 5730; 5757; 5780; 5802; 5821; 5836; 5849; 5866; 5886; 5913; 5926; 5945; 5970; 5993; 6007; 6020; 6037

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNYNGG	256	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; 620; 637; 661; 678; 713; 730; 747; 765; 788; 809; 829; 850; 877; 898; 916; 938; 962; 979; 1006; 1035; 1054; 1078; 1098; 1123; 1144; 1161; 1198; 1218; 1239; 1258; 1289; 1313; 1332; 1352; 1372; 1390; 1412; 1432; 1455; 1488; 1507; 1525; 1563; 1582; 1611; 1637; 1659; 1679; 1699; 1719; 1736; 1756; 1783; 1802; 1825; 1847; 1876; 1912; 1936; 1958; 1979; 2022; 2053; 2071; 2095; 2118; 2135; 2159; 2177; 2211; 2230; 2250; 2271; 2288; 2341; 2359; 2376; 2401; 2420; 2437; 2454; 2485; 2509; 2530; 2548; 2578; 2602; 2624; 2645; 2662; 2684; 2718; 2747; 2776; 2818; 2901; 2939; 2963; 2986; 3015; 3059; 3081; 3113; 3149; 3166; 3187; 3224; 3244; 3261; 3278; 3313; 3331; 3349; 3366; 3390; 3412; 3439; 3467; 3493; 3531; 3552; 3569; 3587; 3610; 3631; 3659; 3682; 3703; 3721; 3742; 3759; 3782; 3806; 3826; 3844; 3866; 3897; 3919; 3945; 3964; 3981; 4009; 4028; 4047; 4065; 4083; 4104; 4126; 4150; 4183; 4203; 4221; 4242; 4268; 4295; 4312; 4329; 4346; 4372; 4394; 4416; 4434; 4454; 4473; 4495; 4533; 4553; 4577; 4597; 4617; 4644; 4668; 4701; 4720; 4748; 4770; 4799; 4827; 4852; 4871; 4890; 4911; 4928; 4945; 4976; 5003; 5023; 5046; 5066; 5103; 5120; 5139; 5165; 5185; 5224; 5251; 5270; 5288; 5325; 5343; 5384; 5402; 5428; 5445; 5477; 5506; 5534; 5555; 5578; 5597; 5618; 5636; 5653; 5671; 5697; 5718; 5738; 5758; 5776; 5797; 5823; 5840; 5859; 5878; 5907; 5926; 5944; 5963; 5981; 5999; 6022
MspR9I	CC!NGG	36	90; 283; 780; 790; 807; 892; 913; 967; 1021; 1093; 1174; 1273; 1375; 1420; 1533; 1534; 1870; 1927; 2119; 2435; 2446; 2505; 2515; 3602; 3657; 3674; 4070; 4230; 4453; 4843; 5032; 5135; 5607; 5825; 5838; 5959
MssI	GTTT!AAC	0	
MunI	C!AATTG	1	2816
MvaI	CC!WGG	30	90; 283; 780; 790; 807; 892; 913; 967; 1021; 1093; 1174; 1273; 1375; 1420; 1870; 1927; 2119; 2435; 2446; 2505; 2515; 3602; 3657; 3674; 4453; 5032; 5135; 5825; 5838; 5959
Mva1269I	GAATGCN!	1	2817
Mva1269I	G!CATTC	1	2910
MvnI	CG!CG	19	60; 701; 938; 977; 1256; 2954; 2990; 3366; 3386; 3410; 3441; 4132; 4433; 4871; 4955; 5018; 5087; 5360; 5941
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 660; 761; 774; 818; 1049; 1241; 1292; 1400; 1592; 2036; 2158; 2182; 2338; 2390; 2477; 2548; 3293; 3323; 3350; 3392; 3633; 3705; 3756; 3835; 4057; 4141; 4164; 4303; 4426; 4509; 4776; 4963; 5167; 5366; 5938
NaeI	GCC!GGC	3	3285; 4568; 4851
NarI	GG!CGCC	1	4066
NciI	CC!SGG	6	1533; 1534; 4070; 4230; 4843; 5607
NcoI	C!CATGG	4	360; 2268; 3795; 4498
NdeI	CA!TATG	2	234; 2157
NdeII	!GATC	27	585; 656; 740; 1109; 1193; 1336; 1682; 2213; 2701; 2710; 2723; 3903; 3907; 3926; 4237; 4315; 4396; 4405; 4483; 4859; 4875; 5234; 5246; 5324; 5332; 5343; 5418
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	3283; 4566; 4849
NheI	G!CTAGC	1	591
NlaIII	CATG!	27	304; 364; 615; 846; 876; 1071; 1266; 1311; 1806; 1953; 2194; 2272; 2283; 2475; 3496; 3636; 3708; 3799; 3940; 4285; 4471; 4502; 4528; 4884; 5268; 5988; 6039
NlaIV	GGN!NCC	23	467; 1185; 1556; 1587; 2082; 2123; 2315; 2383; 2432; 2703; 3221; 3242; 3254; 3445; 3606; 3678; 4067; 4102; 4950; 5029; 5074; 5917; 5956
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	5	1644; 2079; 2898; 3213; 4805
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	2	347; 5877
Nii3877I	CYCGR!G	5	839; 881; 1344; 1536; 1659
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3855; 4291
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	3820
NmeDI	RCCGGYNNNNNN!	7	612; 772; 1744; 3295; 4397; 4578; 4861
NmeDI	!NNNNNNNNNNNNRCCGGY	7	587; 747; 1719; 3270; 4372; 4553; 4836



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmuCI	!GTSAC	7	792; 1456; 2257; 2305; 3355; 4186; 4492
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4168
NsiI	ATGCA!T	3	3638; 3710; 6041
NspI	RCATG!Y	5	2475; 3636; 3708; 4471; 5988
NspV	TT!CGAA	1	4748
OliI	CACNN!NNGTG	3	790; 967; 2428
PabI	GTA!C	14	220; 245; 300; 333; 384; 541; 929; 1040; 1064; 1322; 2300; 2457; 2567; 4373
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	2475; 3636; 3708; 4471
PaeR7I	C!TCGAG	1	1340
PagI	T!CATGA	2	3492; 5264
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1173; 5031; 5134
PauI	G!CGCGC	0	
PceI	AGG!CCT	2	2503; 3887
PciI	A!CATGT	1	5984
PciSI	GCTCTTCN!	1	1606
PciSI	!NNNNGAAGAGC	2	4410; 4620
PcsI	WCGNNNN!NNNCGW	9	641; 1253; 1310; 4360; 4437; 4680; 4754; 5147; 5665
PctI	GAATGCN!	1	2817
PctI	G!CATTC	1	2910
PdiI	GCC!GGC	3	3285; 4568; 4851
PdmI	GAANN!NNTTC	2	856; 1779
PfeI	G!AWTC	6	2656; 4551; 4685; 4795; 4832; 6010
Pfi23II	C!GTACG	0	
PfifI	GACN!NNGTC	1	4184
PfIMI	CCANNNN!NTGG	3	1032; 1308; 2373
PfoI	T!CCNGGA	4	890; 911; 1271; 4841
PhoI	GG!CC	33	84; 277; 683; 783; 1025; 1081; 1091; 1147; 1184; 1373; 1445; 1966; 2152; 2449; 2503; 2605; 3032; 3174; 3829; 3835; 3844; 3887; 3974; 4148; 4539; 4566; 5075; 5132; 5165; 5510; 5944; 5962; 5973
PinAI	A!CCGGT	2	600; 1732
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	3	1073; 1256; 4447
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	2513; 4012; 4267
PleI	GAGTCNNNN!	3	1284; 3117; 3549
PleI	!NNNNNGACTC	6	404; 1325; 1477; 3125; 4731; 5608
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	1527
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	1	1527
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	3148
PpiI	!NNNNNNNNNGAGNNNNNGTTC	4	616; 730; 934; 5278
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	4	648; 762; 966; 5310
PpiI	!NNNNNNNGAACNNNNNNCTC	1	3116
Ppsi	GAGTCNNNN!	3	1284; 3117; 3549
Ppsi	!NNNNNGACTC	6	404; 1325; 1477; 3125; 4731; 5608
Ppu10I	A!TGCAT	3	3634; 3706; 6037
Ppu21I	YAC!GTR	5	340; 1527; 2568; 3182; 4370
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	5984
PshAI	GACNN!NNGTC	1	1979
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2849; 3054
Psp03I	GGWC!C	5	1242; 1704; 2520; 4585; 5030
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	30	88; 281; 778; 788; 805; 890; 911; 965; 1019; 1091; 1172; 1271; 1373; 1418; 1868; 1925; 2117; 2433; 2444; 2503; 2513; 3600; 3655; 3672; 4451; 5030; 5133; 5823; 5836; 5957
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1412
PspCI	CAC!GTG	1	1527

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PspEI	G!GTNACC	1	792
PspGI	!CCWGG	30	88; 281; 778; 788; 805; 890; 911; 965; 1019; 1091; 1172; 1271; 1373; 1418; 1868; 1925; 2117; 2433; 2444; 2503; 2513; 3600; 3655; 3672; 4451; 5030; 5133; 5823; 5836; 5957
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	23	467; 1185; 1556; 1587; 2082; 2123; 2315; 2383; 2432; 2703; 3221; 3242; 3254; 3445; 3606; 3678; 4067; 4102; 4950; 5029; 5074; 5917; 5956
PspOMI	G!GGCCC	0	
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNNNN!	4	125; 2031; 3796; 4795
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	2	1155; 4198
PspPI	G!GNCC	15	83; 276; 782; 1023; 1183; 1239; 1701; 2517; 2604; 3173; 4582; 5027; 5073; 5131; 5164
PspPPI	RG!GWCCY	0	
PspPRI	CCYAGNNNNNNNNNNNNNNNNNN!	4	1887; 3619; 3691; 5197
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	4	793; 2484; 3532; 4727
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	5167
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	2	5167; 5575
PsuI	R!GATCY	12	585; 1109; 1336; 2701; 2710; 4237; 4483; 4875; 5234; 5246; 5332; 5343
PsyI	GACN!NNGTC	1	4184
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	4	1143; 1882; 3564; 4172
RcaI	T!CATGA	2	3492; 5264
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4581
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	3	1575; 1933; 2795
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	14	219; 244; 299; 332; 383; 540; 928; 1039; 1063; 1321; 2299; 2456; 2566; 4372
RsaNI	G!TAC	14	218; 243; 298; 331; 382; 539; 927; 1038; 1062; 1320; 2298; 2455; 2565; 4371
RseI	CAYNN!NNRTG	6	365; 790; 847; 967; 2428; 4503
RsrII	CG!GWCCG	1	4582
Rsr2I	CG!GWCCG	1	4582
SacI	GAGCT!C	1	1412
SacII	CCGC!GG	1	939
SalI	G!TCGAC	0	
SapI	GCTCTCN!	1	1606
SapI	!NNNNGAAGAGC	2	4410; 4620
SaqAI	T!TAA	16	7; 2024; 2767; 2828; 2949; 2970; 2981; 2993; 3004; 3021; 3119; 3390; 5209; 5223; 5228; 5280
SatI	GC!NGC	39	769; 939; 1131; 1134; 1141; 1218; 1615; 1640; 2289; 2333; 2361; 2621; 2843; 3362; 3384; 3398; 3836; 3975; 4027; 4038; 4128; 4133; 4170; 4211; 4298; 4304; 4540; 4636; 4677; 4691; 4805; 5144; 5159; 5370; 5576; 5579; 5644; 5787; 5942
Sau96I	G!GNCC	15	83; 276; 782; 1023; 1183; 1239; 1701; 2517; 2604; 3173; 4582; 5027; 5073; 5131; 5164
Sau3AI	!GATC	27	585; 656; 740; 1109; 1193; 1336; 1682; 2213; 2701; 2710; 2723; 3903; 3907; 3926; 4237; 4315; 4396; 4405; 4483; 4859; 4875; 5234; 5246; 5324; 5332; 5343; 5418
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SchI	GAGTCNNNNN!	3	1285; 3118; 3550
SchI	!NNNNNGACTC	6	404; 1325; 1477; 3125; 4731; 5608
SciI	CTC!GAG	1	1342
ScrFI	CC!NGG	36	90; 283; 780; 790; 807; 892; 913; 967; 1021; 1093; 1174; 1273; 1375; 1420; 1533; 1534; 1870; 1927; 2119; 2435; 2446; 2505; 2515; 3602; 3657; 3674; 4070; 4230; 4453; 4843; 5032; 5135; 5607; 5825; 5838; 5959
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	918; 3644; 3716; 3885; 5827
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	1250; 4221; 4706
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	24	650; 680; 779; 842; 1172; 1271; 1412; 1532; 1664; 1732; 1895; 1934; 2085; 2126; 2386; 2511; 3257; 4012; 4105; 4179; 4369; 4431; 5141; 5674
SelI	!CGCG	19	58; 699; 936; 975; 1254; 2952; 2988; 3364; 3384; 3408; 3439; 4130; 4431; 4869; 4953; 5016; 5085; 5358; 5939
SetI	ASST!	91	125; 137; 178; 261; 308; 342; 447; 552; 568; 632; 665; 677; 737; 770; 947; 986; 1061; 1145; 1169; 1214; 1219; 1319; 1370; 1412; 1498; 1529; 1591; 1601; 1619; 1694; 1718; 1765; 1795; 1812; 1844; 1874; 1884; 1994; 2014; 2024; 2099; 2120; 2201; 2312; 2402; 2447; 2456; 2466; 2534; 2570; 2648; 2756; 2777; 2786; 2798; 2847; 3014; 3129; 3141; 3184; 3221; 3271; 3294; 3418; 3566; 3661; 3854; 3967; 4095; 4174; 4185; 4257; 4328; 4372; 4632; 4778; 4822; 5153; 5184; 5243; 5286; 5429; 5450; 5549; 5686; 5701; 5720; 5732; 5776; 5822; 5873
SexAI	A!CCWGGT	2	2117; 3655
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	13	650; 821; 1364; 1439; 2144; 2372; 2414; 2882; 3645; 3717; 4365; 4429; 4704
SfaNI	!NNNNNNNNNGATGC	7	357; 1439; 1626; 4024; 4279; 4495; 5887
SfcI	C!TRYAG	5	1883; 2204; 3401; 5528; 5719
SfiI	GGCCNNNN!NGGCC	1	3841
SfoI	GGC!GCC	1	4067
Sfr274I	C!TCGAG	1	1340
Sfr303I	CCGC!GG	1	939
SfuI	TT!CGAA	1	4748
SgeI	CNNGNNNNNNNNN!	245	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 624; 650; 663; 676; 691; 708; 744; 773; 786; 801; 814; 828; 847; 876; 889; 903; 924; 942; 966; 979; 993; 1014; 1032; 1071; 1084; 1104; 1119; 1137; 1156; 1170; 1185; 1198; 1224; 1248; 1265; 1284; 1315; 1340; 1354; 1378; 1391; 1412; 1431; 1446; 1466; 1523; 1537; 1563; 1595; 1608; 1621; 1637; 1667; 1689; 1705; 1725; 1745; 1761; 1790; 1809; 1842; 1855; 1873; 1938; 1962; 2005; 2052; 2079; 2097; 2121; 2144; 2161; 2176; 2203; 2237; 2256; 2276; 2292; 2314; 2367; 2402; 2427; 2446; 2463; 2484; 2516; 2535; 2556; 2574; 2604; 2618; 2638; 2720; 2773; 2802; 2844; 2927; 2965; 3001; 3085; 3107; 3139; 3176; 3194; 3213; 3228; 3270; 3287; 3304; 3339; 3353; 3370; 3392; 3416; 3440; 3505; 3519; 3557; 3573; 3613; 3626; 3645; 3668; 3685; 3698; 3717; 3747; 3768; 3785; 3808; 3843; 3870; 3901; 3923; 3949; 3971; 3990; 4018; 4054; 4073; 4096; 4110; 4130; 4143; 4157; 4176; 4190; 4209; 4241; 4255; 4268; 4294; 4325; 4338; 4355; 4372; 4386; 4403; 4421; 4436; 4464; 4480; 4499; 4521; 4537; 4560; 4579; 4604; 4623; 4643; 4670; 4694; 4727; 4746; 4774; 4788; 4854; 4878; 4893; 4916; 4937; 4954; 5002; 5029; 5043; 5072; 5096; 5129; 5146; 5166; 5179; 5192; 5250; 5277; 5296; 5326; 5351; 5371; 5385; 5410; 5428; 5465; 5503; 5532; 5560; 5574; 5594; 5609; 5630; 5644; 5663; 5681; 5697; 5737; 5757; 5784; 5802; 5823; 5836; 5849; 5866; 5890; 5913; 5945; 5970; 5997; 6019

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	213	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 624; 646; 665; 682; 718; 747; 765; 788; 813; 850; 877; 898; 916; 940; 962; 979; 1006; 1045; 1063; 1093; 1111; 1130; 1153; 1172; 1198; 1222; 1239; 1258; 1289; 1314; 1334; 1352; 1372; 1390; 1412; 1432; 1497; 1518; 1537; 1569; 1595; 1615; 1641; 1663; 1699; 1719; 1764; 1783; 1816; 1847; 1912; 1936; 1979; 2026; 2053; 2071; 2095; 2118; 2135; 2177; 2211; 2230; 2250; 2271; 2288; 2341; 2376; 2401; 2420; 2437; 2458; 2490; 2509; 2530; 2548; 2578; 2612; 2694; 2747; 2776; 2818; 2901; 2939; 2975; 3059; 3081; 3113; 3150; 3168; 3187; 3244; 3261; 3278; 3313; 3331; 3351; 3371; 3390; 3414; 3479; 3531; 3587; 3619; 3642; 3659; 3691; 3721; 3742; 3759; 3782; 3817; 3844; 3875; 3897; 3923; 3945; 3964; 3992; 4028; 4047; 4070; 4091; 4109; 4126; 4150; 4183; 4215; 4242; 4268; 4299; 4329; 4346; 4372; 4395; 4416; 4438; 4458; 4478; 4495; 4534; 4553; 4578; 4597; 4617; 4644; 4668; 4701; 4720; 4748; 4770; 4828; 4852; 4871; 4890; 4911; 4928; 4976; 5003; 5023; 5046; 5070; 5103; 5120; 5140; 5166; 5224; 5251; 5270; 5300; 5325; 5345; 5384; 5402; 5439; 5477; 5506; 5534; 5555; 5583; 5604; 5637; 5655; 5711; 5731; 5758; 5776; 5797; 5823; 5840; 5864; 5887; 5919; 5944; 5971; 5993; 6022
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	939
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 3213; 5000; 5793
SimI	!GACCC	6	106; 932; 2259; 4494; 5062; 5310
SinI	G!GWCC	5	1239; 1701; 2517; 4582; 5027
SlaI	C!TCGAG	1	1340
SmaI	CCC!GGG	1	1534
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	6	365; 790; 847; 967; 2428; 4503
SmlI	C!TYRAG	6	1340; 2626; 4457; 5339; 5616; 5878
SmoI	C!TYRAG	6	1340; 2626; 4457; 5339; 5616; 5878
SmuI	CCCGCNNNN!	12	93; 119; 286; 835; 943; 1261; 2140; 3388; 3743; 3764; 4960; 5092
SmuI	!NNNNNNGCGGG	6	610; 3319; 4189; 4726; 4864; 5011
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	2475; 3636; 3708; 4471
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	12	18; 1706; 2104; 2816; 2880; 2958; 2984; 2995; 3642; 3714; 3806; 5224
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	0	
SseBI	AGG!CCT	2	2503; 3887
SsiI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 828; 936; 975; 1113; 1226; 1242; 1254; 1323; 1593; 2028; 2133; 3381; 3384; 3398; 3488; 3736; 3748; 3757; 3769; 3779; 3790; 3836; 3975; 4038; 4540; 4585; 4651; 4677; 4802; 4805; 4953; 5085; 5392; 5536; 6032
SsiI	G!CGG	28	370; 403; 528; 617; 701; 938; 1130; 1133; 3326; 3353; 3441; 3551; 4132; 4196; 4297; 4300; 4580; 4635; 4733; 4871; 5018; 5158; 5401; 5646; 5767; 5786; 5913; 5941
SspI	AAT!ATT	2	2974; 3527
SspDI	G!GCGCC	1	4065
SspD5I	GGTGANNNNNNNN!	11	376; 715; 804; 957; 981; 2262; 2317; 2584; 2686; 5137; 5253
SspD5I	!NNNNNNNNNTCACC	5	1781; 1901; 2207; 3182; 4243
SstI	GAGCT!C	1	1412
SstII	CCGC!GG	1	939
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	29	92; 118; 285; 656; 779; 834; 842; 884; 942; 1079; 1193; 1260; 1445; 1539; 1662; 2139; 2613; 3265; 3387; 3742; 3763; 4076; 4479; 4618; 4689; 4959; 5091; 5321; 5759
Sth132I	!NNNNNNNNNCGGG	21	15; 407; 470; 609; 1502; 1525; 3266; 3318; 3419; 4146; 4188; 4221; 4725; 4834; 4863; 5010; 5114; 5145; 5598; 5642; 5850

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sth302II	CC!GG	22	602; 762; 1329; 1534; 1734; 2709; 3285; 3972; 4049; 4071; 4099; 4230; 4320; 4387; 4568; 4843; 4851; 4943; 5417; 5607; 5633; 5780
StrI	C!TCGAG	1	1340
StsI	GGATGNNNNNNNNNN!	5	2593; 3934; 4391; 4416; 4870
StsI	!NNNNNNNNNNNNNNCATCC	9	798; 873; 1002; 1347; 1416; 1890; 2121; 2349; 3738
StuI	AGG!CCT	2	2503; 3887
StyI	C!CWWGG	7	360; 2268; 2450; 3795; 3888; 4498; 4903
StyD4I	!CCNGG	36	88; 281; 778; 788; 805; 890; 911; 965; 1019; 1091; 1172; 1271; 1373; 1418; 1531; 1532; 1868; 1925; 2117; 2433; 2444; 2503; 2513; 3600; 3655; 3672; 4068; 4228; 4451; 4841; 5030; 5133; 5605; 5823; 5836; 5957
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	16	76; 198; 269; 543; 581; 1563; 2302; 2427; 3157; 4446; 4562; 4670; 4993; 5484; 5954; 6025
TaiI	ACGT!	22	125; 137; 178; 261; 342; 447; 677; 1061; 1169; 1370; 1529; 1812; 2312; 2570; 3129; 3141; 3184; 3294; 4185; 4372; 5153; 5286
TaqI	T!CGA	18	659; 953; 980; 1124; 1341; 1994; 2000; 3215; 3906; 4179; 4335; 4359; 4395; 4557; 4748; 4793; 5048; 5886
TaqII	GACCGANNNNNNNNNN!	4	1718; 3086; 4103; 4771
TaqII	!NNNNNNNNNTCGGTC	1	5015
TaqII	CACCCANNNNNNNNNN!	2	1315; 1930
TaqII	!NNNNNNNNNTGGGTG	4	172; 2560; 3970; 4562
TasI	!AATT	12	18; 1706; 2104; 2816; 2880; 2958; 2984; 2995; 3642; 3714; 3806; 5224
TatI	W!GTACW	7	217; 297; 330; 381; 926; 1037; 1061
TauI	GCSG!C	18	941; 1133; 1136; 3386; 3400; 3838; 3977; 4040; 4135; 4300; 4303; 4542; 4638; 4679; 4807; 5161; 5789; 5944
TfiI	G!AWTC	6	2656; 4551; 4685; 4795; 4832; 6010
TliI	C!TCGAG	1	1340
TruII	T!TAA	16	7; 2024; 2767; 2828; 2949; 2970; 2981; 2993; 3004; 3021; 3119; 3390; 5209; 5223; 5228; 5280
Tru9I	T!TAA	16	7; 2024; 2767; 2828; 2949; 2970; 2981; 2993; 3004; 3021; 3119; 3390; 5209; 5223; 5228; 5280
TscAI	CASTGNN!	13	823; 1509; 1587; 1732; 2064; 2394; 2430; 2566; 2912; 4195; 5305; 5576; 5589
TseI	G!CWGC	22	768; 1140; 1217; 1614; 1639; 2288; 2332; 2360; 2620; 2842; 3361; 4026; 4127; 4169; 4210; 4303; 4690; 5143; 5369; 5575; 5578; 5643
TsoI	TARCCANNNNNNNNNN!	3	2053; 3038; 3385
TsoI	!NNNNNNNNNTGGYTA	2	2843; 4595
Tsp45I	!GTSAC	7	792; 1456; 2257; 2305; 3355; 4186; 4492
Tsp509I	!AATT	12	18; 1706; 2104; 2816; 2880; 2958; 2984; 2995; 3642; 3714; 3806; 5224
TspDTI	ATGAANNNNNNNNNN!	6	859; 1586; 2207; 2824; 4125; 4829
TspDTI	!NNNNNNNNNTTCAT	6	26; 738; 1938; 4543; 4999; 5206
TspEI	!AATT	12	18; 1706; 2104; 2816; 2880; 2958; 2984; 2995; 3642; 3714; 3806; 5224
TspGWI	ACGGANNNNNNNNNN!	1	4941
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1532
TspRI	CASTGNN!	13	823; 1509; 1587; 1732; 2064; 2394; 2430; 2566; 2912; 4195; 5305; 5576; 5589
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNN!	0	
TstI	!NNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	4184
Tth111II	CAARCANNNNNNNNNN!	2	1537; 5393
Tth111II	!NNNNNNNNNTGYTTG	5	1531; 2213; 4501; 5361; 5400
UnbI	!GGNCC	15	82; 275; 781; 1022; 1182; 1238; 1700; 2516; 2603; 3172; 4581; 5026; 5072; 5130; 5163
Van91I	CCANNNN!NTGG	3	1032; 1308; 2373
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	3	676; 1728; 5670
VpaK11AI	!GGWCC	5	1238; 1700; 2516; 4581; 5026

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
VpaK11BI	G!GWCC	5	1239; 1701; 2517; 4582; 5027
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	2	2449; 2629
XapI	R!AATTY	5	1706; 2104; 2880; 2984; 2995
XbaI	T!CTAGA	1	2713
XceI	RCATG!Y	5	2475; 3636; 3708; 4471; 5988
XcmI	CCANNNNN!NNNNTGG	3	1089; 1170; 1765
XhoI	C!TCGAG	1	1340
XhoII	R!GATCY	12	585; 1109; 1336; 2701; 2710; 4237; 4483; 4875; 5234; 5246; 5332; 5343
XmaI	C!CCGGG	1	1532
XmaJI	C!CTAGG	2	3888; 4903
XmiI	GT!MKAC	2	1547; 1955
XmnI	GAANN!NNTTC	2	856; 1779
XspI	C!TAG	8	592; 2714; 2915; 3333; 3889; 4904; 5238; 5491
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3638; 3710; 6041