

pTagBFP-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	2828; 3033
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	3116; 4072; 5861
AatI	AGG!CCT	3	1030; 2482; 3866
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	3	1181; 1526; 1934
AccII	CG!CG	15	60; 2933; 2969; 3345; 3365; 3389; 3420; 4111; 4412; 4850; 4934; 4997; 5066; 5339; 5920
AccIII	T!CCGGA	1	1306
Acc16I	TGC!GCA	1	4147
Acc36I	ACCTGCNNNN!	2	4313; 4763
Acc36I	!NNNNNNNNGCAGGT	1	3932
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	10	465; 655; 715; 1564; 2100; 2360; 2409; 3198; 4044; 4079
AccB7I	CCANNNN!NTGG	1	2352
AccBSI	CCG!CTC	2	3469; 4658
AccBSI	GAG!CGG	2	3305; 4712
AceIII	CAGCTCNNNNNNN!	3	1588; 1606; 3001
AceIII	!NNNNNNNNNNGAGCTG	3	552; 601; 2429
AciI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 914; 1052; 1154; 1572; 2007; 2112; 3360; 3363; 3377; 3467; 3715; 3727; 3736; 3748; 3758; 3769; 3815; 3954; 4017; 4519; 4564; 4630; 4656; 4781; 4784; 4932; 5064; 5371; 5515; 6011
AciI	G!CGG	27	370; 403; 528; 595; 749; 1061; 1103; 3305; 3332; 3420; 3530; 4111; 4175; 4276; 4279; 4559; 4614; 4712; 4850; 4997; 5137; 5380; 5625; 5746; 5765; 5892; 5920
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	9	2688; 2697; 3913; 4224; 4470; 4862; 5221; 5319; 5405
AclWI	!NNNNNGATCC	7	580; 1136; 2675; 4289; 4833; 5220; 5317
AcoI	Y!GGCCR	9	1259; 1350; 1422; 2129; 2426; 3951; 4125; 4516; 4543
AcsI	R!AATY	5	1685; 2083; 2859; 2963; 2974
AcuI	CTGAAGNNNNNNNNNNNNNNN!	3	1111; 4191; 4623
AcuI	!NNNNNNNNNNNNNCTTCAG	3	1464; 1702; 5421
AcvI	CAC!GTG	1	1506
AcyI	GR!CGYC	8	122; 175; 258; 444; 1178; 4045; 4747; 4826
AdeI	CACNNN!GTG	2	1251; 3161
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 646; 1048; 2278; 2435; 2545; 4351
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	25	49; 712; 825; 1057; 1677; 1782; 2248; 2352; 2430; 2610; 3057; 3383; 3775; 4026; 4570; 4851; 4883; 5015; 5050; 5100; 5132; 5485; 5764; 5930; 5948
AfIII	C!TTAAG	0	
AfIII	A!CRYGT	2	2931; 5963
AgeI	A!CCGGT	1	1711
AgsI	TTS!AA	10	678; 846; 1470; 2376; 2644; 3456; 3500; 3510; 3923; 5499
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	1	2289
AjnI	!CCWGG	26	88; 281; 776; 824; 920; 935; 1064; 1173; 1352; 1397; 1847; 1904; 2096; 2412; 2423; 2482; 2492; 3579; 3634; 3651; 4430; 5009; 5112; 5802; 5815; 5936
AjuI	GAANNNNNNTTGGNNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNNTTC	1	1810

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AjuI	CCAANNNNNNNNTTCNNNNNNNNNNNN!	1	1842
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	2407
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	3	1522; 3619; 3691
AlfI	!NNNNNNNNNGCANNNNNNNTGC	3	1488; 3585; 3657
AloI	GAACNNNNNNNTCCNNNNNNNNNNNN!	3	1002; 1426; 3127
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	3	970; 1394; 3095
AluI	AG!CT	26	566; 615; 642; 788; 1095; 1299; 1389; 1578; 1596; 1695; 1742; 1821; 1861; 2178; 2443; 2824; 2991; 3248; 3543; 3831; 4151; 4609; 5406; 5663; 5709; 5799
AluBI	AG!CT	26	566; 615; 642; 788; 1095; 1299; 1389; 1578; 1596; 1695; 1742; 1821; 1861; 2178; 2443; 2824; 2991; 3248; 3543; 3831; 4151; 4609; 5406; 5663; 5709; 5799
AlwI	GGATCNNNN!	9	2688; 2697; 3913; 4224; 4470; 4862; 5221; 5319; 5405
AlwI	!NNNNNGATCC	7	580; 1136; 2675; 4289; 4833; 5220; 5317
Alw21I	GWGCW!C	7	685; 1391; 1711; 1913; 4158; 4348; 5653
Alw26I	GTCTCN!	2	434; 1795
Alw26I	!NNNNNGAGAC	8	1033; 1222; 1480; 2414; 3469; 3887; 4906; 5034
Alw44I	G!TGCAC	3	681; 1707; 5649
AlwNI	CAGNNN!CTG	3	1268; 5146; 5554
Ama87I	C!YCGRG	3	1319; 1511; 1634
Aor13HI	T!CCGGA	1	1306
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	4	1380; 3613; 3685; 5147
ApaLI	G!TGCAC	3	681; 1707; 5649
ApeKI	G!CWGC	22	800; 944; 1242; 1593; 1618; 2267; 2311; 2339; 2599; 2821; 3340; 4005; 4106; 4148; 4189; 4282; 4669; 5122; 5348; 5554; 5557; 5622
ApoI	R!AATY	5	1685; 2083; 2859; 2963; 2974
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	4560
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	4354; 5007; 5845
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	4444
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	0	
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	3	1479; 2645; 3873
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	2	2588; 2681
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	2	771; 4615
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	1	2520
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	1	2488
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	26	586; 966; 1116; 1142; 1316; 1662; 2193; 2681; 2690; 2703; 3883; 3887; 3906; 4217; 4295; 4376; 4385; 4463; 4839; 4855; 5214; 5226; 5304; 5312; 5323; 5398
AsiGI	A!CCGGT	1	1711
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4163
Asp700I	GAANN!NNTTC	1	1758
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3867; 4882
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	23	1495; 1985; 2339; 3311; 3319; 3345; 3367; 3376; 3389; 3420; 4039; 4047; 4111; 4148; 4414; 4674; 4850; 4936; 5339; 5448; 5622; 5722; 5789
AspS9I	G!GNCC	14	83; 276; 751; 994; 1086; 1680; 2496; 2583; 3152; 4561; 5006; 5052; 5110; 5143
AssI	AGT!ACT	0	
AsuII	TT!CGAA	1	4727
AsuC2I	CC!SGG	6	1512; 1513; 4049; 4209; 4822; 5586
AsuHPI	GGTGANNNNNNNN!	8	376; 987; 2241; 2296; 2563; 2665; 5116; 5232
AsuHPI	!NNNNNNNTCACC	7	876; 1026; 1761; 1881; 2187; 3162; 4223

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AsuNI	G!CTAGC	1	591
AvaI	C!YCGRG	3	1319; 1511; 1634
AvaII	G!GWCC	4	1680; 2496; 4561; 5006
AviII	TGC!GCA	1	4147
AvrII	C!CTAGG	2	3867; 4882
AxyI	CC!TNAGG	3	860; 3525; 5157
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	1	2535
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	1	2568
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI	12	658; 685; 718; 1295; 1511; 1643; 1711; 2105; 2365; 3991; 4084; 5653
BalI	TGG!CCA	6	1261; 1352; 1424; 2131; 2428; 4127
BamHI	G!GATCC	1	2680
BanI	G!GYRCC	10	465; 655; 715; 1564; 2100; 2360; 2409; 3198; 4044; 4079
BanII	GRGCY!C	7	1391; 1874; 2064; 2490; 3236; 4410; 5120
BanIII	AT!CGAT	1	3885
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	0	
BasI	CCANNNN!NTGG	1	2352
BauI	C!ACGAG	3	1246; 4763; 5790
BauI	C!TCGTG	2	1096; 4637
BbeI	GGCGC!C	1	4048
Bbr7I	GAAGACNNNNNN!	1	907
Bbr7I	!NNNNNNNNNNNGTCTTC	1	1703
BbrPI	CAC!GTG	1	1506
BbsI	GAAGACNN!	1	902
BbsI	!NNNNNNGTCTTC	1	1708
BbuI	GCATG!C	4	2454; 3615; 3687; 4450
BbvI	GCAGCNNNNNNNN!	10	812; 1254; 1605; 2351; 2833; 4118; 4160; 4681; 5134; 5634
BbvI	!NNNNNNNNNNNGCTGC	11	931; 1605; 2254; 2298; 2586; 3327; 3992; 4176; 4269; 5335; 5541
Bbv12I	GWGCW!C	7	685; 1391; 1711; 1913; 4158; 4348; 5653
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	1	2477
BccI	CCATCNNNN!	11	677; 1118; 1348; 1891; 1954; 2041; 2332; 3175; 3739; 4265; 4767
BccI	!NNNNNGATGG	7	1414; 2050; 2220; 2553; 3143; 3923; 4351
BceAI	ACGGCNNNNNNNNNN!	7	813; 957; 1008; 1074; 1422; 4471; 4958
BceAI	!NNNNNNNNNNNNNGCCGT	3	3186; 4004; 5463
Bcefl	ACGGCNNNNNNNNNN!	7	813; 957; 1008; 1074; 1422; 4471; 4958
Bcefl	!NNNNNNNNNNNNNGCCGT	3	3187; 4005; 5464
BcgI	CGANNNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3474; 4264; 5765
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	2702
BcnI	CC!SGG	6	1512; 1513; 4049; 4209; 4822; 5586
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNNTCANNNNNNNNNN!	2	2725; 5898
BdaI	!NNNNNNNNNNNTGANNNNNNNTCA	2	2691; 5864
BfaI	C!TAG	10	592; 785; 1280; 2693; 2894; 3312; 3868; 4883; 5217; 5470
BfiI	ACTGGGNNNNN!	2	1297; 3994
BfiI	!NNNNCCCAGT	2	289; 3746
BfmI	C!TRYAG	6	1194; 1862; 2183; 3380; 5507; 5698
BfoI	RGCGC!Y	6	1496; 1986; 3312; 3320; 4048; 5723
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	3	3474; 4264; 5765
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4313; 4763
BfuAI	!NNNNNNNNNGCAGGT	1	3932

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BfuCI	!GATC	26	585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397
BglI	GCCNNNN!NGGC	6	90; 212; 283; 1070; 2369; 3820
BglII	A!GATCT	1	1315
BisI	GC!NGC	39	750; 801; 945; 1062; 1243; 1594; 1619; 2268; 2312; 2340; 2600; 2822; 3341; 3363; 3377; 3815; 3954; 4006; 4017; 4107; 4112; 4149; 4190; 4277; 4280; 4283; 4519; 4615; 4656; 4670; 4784; 5123; 5138; 5349; 5555; 5558; 5623; 5766; 5921
BlnI	C!CTAGG	2	3867; 4882
BlpI	GC!TNAGC	1	2455
BlsI	GCN!GC	39	751; 802; 946; 1063; 1244; 1595; 1620; 2269; 2313; 2341; 2601; 2823; 3342; 3364; 3378; 3816; 3955; 4007; 4018; 4108; 4113; 4150; 4191; 4278; 4281; 4284; 4520; 4616; 4657; 4671; 4785; 5124; 5139; 5350; 5556; 5559; 5624; 5767; 5922
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	4	1680; 2496; 4561; 5006
Bme1390I	CC!NGG	32	90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1512; 1513; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4049; 4209; 4432; 4822; 5011; 5114; 5586; 5804; 5817; 5938
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	3	1319; 1511; 1634
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	1	2289
BmgT120I	GG!NCC	14	84; 277; 752; 995; 1087; 1681; 2497; 2584; 3153; 4562; 5007; 5053; 5111; 5144
BmiI	GGN!NCC	25	467; 657; 717; 1108; 1535; 1566; 2061; 2102; 2294; 2362; 2411; 2682; 3200; 3221; 3233; 3424; 3585; 3657; 4046; 4081; 4929; 5008; 5053; 5896; 5935
BmrI	ACTGGGNNNNN!	2	1297; 3994
BmrI	!NNNNCCCAAGT	2	289; 3746
BmrFI	CC!NGG	32	90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1512; 1513; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4049; 4209; 4432; 4822; 5011; 5114; 5586; 5804; 5817; 5938
BmsI	GCATCNNNNN!	12	839; 1343; 1418; 2123; 2351; 2393; 2861; 3624; 3696; 4344; 4408; 4683
BmsI	!NNNNNNNNNGATGC	9	357; 992; 1160; 1418; 1605; 4003; 4258; 4474; 5866
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1297; 3994
BmuI	!NNNNCCCAAGT	2	289; 3746
BoxI	GACNN!NNGTC	2	1234; 1958
BpiI	GAAGACNN!	1	902
BpiI	!NNNNNGTCTTC	1	1708
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	3	1353; 3834; 4733
BpI	!NNNNNNNNNGAGNNNNNCTC	3	1321; 3802; 4701
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	3	1843; 1927; 4885
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	919; 4828
Bpu10I	CC!TNAGC	1	1589
Bpu10I	GC!TNAGG	1	2477
Bpu14I	TT!CGAA	1	4727
Bpu1102I	GC!TNAGC	1	2455
BpuAI	GAAGACNN!	1	902
BpuAI	!NNNNNGTCTTC	1	1708
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	2626; 5339; 5878
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	1150; 4421; 5580
BpuMI	CC!SGG	6	1512; 1513; 4049; 4209; 4822; 5586
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	1222; 2414; 5034
Bsa29I	AT!CGAT	1	3885
BsaAI	YAC!GTR	5	340; 1506; 2547; 3161; 4349
BsaBI	GATNN!NNATC	2	2707; 3904
BsaHI	GR!CGYC	8	122; 175; 258; 444; 1178; 4045; 4747; 4826

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BsaJI	C!CNNGG	28	360; 659; 689; 824; 825; 920; 1510; 1635; 1847; 1904; 2247; 2280; 2429; 2483; 3579; 3651; 3774; 3809; 3818; 3867; 4208; 4477; 4882; 5009; 5010; 5112; 5113; 5803
BsaMI	GAATGCN!	1	2796
BsaMI	G!CATTC	1	2889
BsaWI	W!CCGGW	7	1306; 1711; 2686; 4076; 4920; 5610; 5757
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	3125
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	3095
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	2	1496; 2486
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	3	1655; 3046; 4953
Bsc4I	CCNNNNN!NNGG	25	49; 712; 825; 1057; 1677; 1782; 2248; 2352; 2430; 2610; 3057; 3383; 3775; 4026; 4570; 4851; 4883; 5015; 5050; 5100; 5132; 5485; 5764; 5930; 5948
BscAI	GCATCNNNN!	12	838; 1342; 1417; 2122; 2350; 2392; 2860; 3623; 3695; 4343; 4407; 4682
BscAI	!NNNNNGATGC	9	360; 995; 1163; 1421; 1608; 4006; 4261; 4477; 5869
BseI	ACTGGN!	9	1205; 1292; 1566; 1761; 2373; 2545; 3989; 4190; 5436
BseI	C!CAGT	7	295; 1704; 2346; 3074; 3752; 5548; 5561
Bse8I	GATNN!NNATC	2	2707; 3904
Bse2II	CC!TNAGG	3	860; 3525; 5157
Bse118I	R!CCGGY	5	1711; 3262; 4364; 4545; 4828
BseAI	T!CCGGA	1	1306
BseBI	CC!WGG	26	90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4432; 5011; 5114; 5804; 5817; 5938
BseCI	AT!CGAT	1	3885
BseDI	C!CNNGG	28	360; 659; 689; 824; 825; 920; 1510; 1635; 1847; 1904; 2247; 2280; 2429; 2483; 3579; 3651; 3774; 3809; 3818; 3867; 4208; 4477; 4882; 5009; 5010; 5112; 5113; 5803
Bse3DI	GCAATGNN!	2	1380; 4278
Bse3DI	!CATTGC	2	2315; 2471
BseGI	GGATGNN!	5	2564; 3905; 4362; 4387; 4841
BseGI	!CATCC	10	685; 773; 830; 985; 1340; 1409; 1883; 2114; 2342; 3731
BseJI	GATNN!NNATC	2	2707; 3904
BseLI	CCNNNNN!NNGG	25	49; 712; 825; 1057; 1677; 1782; 2248; 2352; 2430; 2610; 3057; 3383; 3775; 4026; 4570; 4851; 4883; 5015; 5050; 5100; 5132; 5485; 5764; 5930; 5948
BseMI	GCAATGNN!	2	1380; 4278
BseMI	!CATTGC	2	2315; 2471
BseMII	CTCAGNNNNNNNNNN!	3	1326; 1808; 5171
BseMII	!NNNNNNNNCTGAG	11	851; 1580; 2038; 2147; 2446; 2468; 3516; 3818; 4699; 5271; 5680
BseNI	ACTGGN!	9	1205; 1292; 1566; 1761; 2373; 2545; 3989; 4190; 5436
BseNI	C!CAGT	7	295; 1704; 2346; 3074; 3752; 5548; 5561
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	3	1469; 2635; 3863
BseRI	!NNNNNNNNCTCCTC	0	
BseSI	GKGCN!C	12	658; 685; 718; 1295; 1511; 1643; 1711; 2105; 2365; 3991; 4084; 5653
BseXI	GCAGCNNNNNNNN!	10	812; 1254; 1605; 2351; 2833; 4118; 4160; 4681; 5134; 5634
BseXI	!NNNNNNNNNNNGCTGC	11	931; 1605; 2254; 2298; 2586; 3327; 3992; 4176; 4269; 5335; 5541
BseX3I	C!GGCCG	1	3951
BseYI	C!CCAGC	4	1839; 3588; 3660; 5659
BseYI	G!CTGGG	3	1022; 1382; 4549
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	15	60; 2933; 2969; 3345; 3365; 3389; 3420; 4111; 4412; 4850; 4934; 4997; 5066; 5339; 5920
Bsh1285I	CGRY!CG	3	599; 3954; 5629
BshFI	GG!CC	33	84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1352; 1424; 1945; 2131; 2428; 2482; 2584; 3011; 3153; 3808; 3814; 3823; 3866; 3953; 4127; 4518; 4545; 5054; 5111; 5144; 5489; 5923; 5941; 5952
BshNI	G!GYRCC	10	465; 655; 715; 1564; 2100; 2360; 2409; 3198; 4044; 4079

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BshTI	A!CCGGT	1	1711
BshVI	AT!CGAT	1	3885
BsiEI	CGRY!CG	3	599; 3954; 5629
BsiHKAI	GWGCW!C	7	685; 1391; 1711; 1913; 4158; 4348; 5653
BsiHKCI	C!YCGRG	3	1319; 1511; 1634
BsiSI	C!CGG	20	1307; 1512; 1712; 2687; 3263; 3950; 4027; 4049; 4077; 4208; 4298; 4365; 4546; 4821; 4829; 4921; 5395; 5585; 5611; 5758
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	25	49; 712; 825; 1057; 1677; 1782; 2248; 2352; 2430; 2610; 3057; 3383; 3775; 4026; 4570; 4851; 4883; 5015; 5050; 5100; 5132; 5485; 5764; 5930; 5948
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4196; 4728; 4837
BsIFI	!NNNNNNNNNNNNNGTCCC	4	3561; 3633; 3697; 4992
BsmI	GAATGCN!	1	2796
BsmI	G!CATTC	1	2889
BsmAI	GTCTCN!	2	434; 1795
BsmAI	!NNNNNGAGAC	8	1033; 1222; 1480; 2414; 3469; 3887; 4906; 5034
BsmBI	CGTCTCN!	1	1795
BsmBI	!NNNNNGAGACG	2	1033; 1480
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4196; 4728; 4837
BsmFI	!NNNNNNNNNNNNNGTCCC	4	3561; 3633; 3697; 4992
BsnI	GG!CC	33	84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1352; 1424; 1945; 2131; 2428; 2482; 2584; 3011; 3153; 3808; 3814; 3823; 3866; 3953; 4127; 4518; 4545; 5054; 5111; 5144; 5489; 5923; 5941; 5952
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	1222; 2414; 5034
BsoBI	C!YCGRG	3	1319; 1511; 1634
Bsp13I	T!CCGGA	1	1306
Bsp19I	C!CATGG	4	360; 2247; 3774; 4477
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	3	289; 1511; 4848
Bsp24I	!NNNNNNCCANNNNNGTC	3	2011; 5269; 5447
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	3	2043; 5301; 5479
Bsp24I	!NNNNNNNGACNNNNNTGG	3	257; 1479; 4816
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4727
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	26	585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397
Bsp1286I	GDGCH!C	22	658; 685; 718; 1295; 1391; 1511; 1643; 1711; 1874; 1913; 2064; 2105; 2365; 2490; 3236; 3991; 4084; 4158; 4348; 4410; 5120; 5653
Bsp1407I	T!GTACA	1	644
Bsp1720I	GC!TNAGC	1	2455
BspACI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 914; 1052; 1154; 1572; 2007; 2112; 3360; 3363; 3377; 3467; 3715; 3727; 3736; 3748; 3758; 3769; 3815; 3954; 4017; 4519; 4564; 4630; 4656; 4781; 4784; 4932; 5064; 5371; 5515; 6011
BspACI	G!CGG	27	370; 403; 528; 595; 749; 1061; 1103; 3305; 3332; 3420; 3530; 4111; 4175; 4276; 4279; 4559; 4614; 4712; 4850; 4997; 5137; 5380; 5625; 5746; 5765; 5892; 5920
BspCNI	CTCAGNNNNNNNN!	3	1325; 1807; 5170
BspCNI	!NNNNNNCTGAG	11	852; 1581; 2039; 2148; 2447; 2469; 3517; 3819; 4700; 5272; 5681
BspDI	AT!CGAT	1	3885
BspD6I	GACTCNNNN!	6	418; 1318; 1470; 3118; 4724; 5601
BspD6I	!NNNNNGAGTC	3	874; 3081; 3513
BspEI	T!CCGGA	1	1306
BspFNI	CG!CG	15	60; 2933; 2969; 3345; 3365; 3389; 3420; 4111; 4412; 4850; 4934; 4997; 5066; 5339; 5920
BspHI	T!CATGA	2	3471; 5243
BspLI	GGN!NCC	25	467; 657; 717; 1108; 1535; 1566; 2061; 2102; 2294; 2362; 2411; 2682; 3200; 3221; 3233; 3424; 3585; 3657; 4046; 4081; 4929; 5008; 5053; 5896; 5935
BspMI	ACCTGCNNNN!	2	4313; 4763
BspMI	!NNNNNNNGCAGGT	1	3932

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	9	2688; 2697; 3913; 4224; 4470; 4862; 5221; 5319; 5405
BspPI	!NNNNNGATCC	7	580; 1136; 2675; 4289; 4833; 5220; 5317
BspQI	GCTCTTCN!	1	1585
BspQI	!NNNNGAAGAGC	2	4389; 4599
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	1	4727
BspT107I	G!GYRCC	10	465; 655; 715; 1564; 2100; 2360; 2409; 3198; 4044; 4079
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	1222; 2414; 5034
BsrI	ACTGGN!	9	1205; 1292; 1566; 1761; 2373; 2545; 3989; 4190; 5436
BsrI	C!CAGT	7	295; 1704; 2346; 3074; 3752; 5548; 5561
BsrBI	CCG!CTC	2	3469; 4658
BsrBI	GAG!CGG	2	3305; 4712
BsrDI	GCAATGNN!	2	1380; 4278
BsrDI	!CATTGC	2	2315; 2471
BsrFI	R!CCGGY	5	1711; 3262; 4364; 4545; 4828
BsrGI	T!GTACA	1	644
BsrSI	ACTGGN!	9	1205; 1292; 1566; 1761; 2373; 2545; 3989; 4190; 5436
BsrSI	C!CAGT	7	295; 1704; 2346; 3074; 3752; 5548; 5561
BssAI	R!CCGGY	5	1711; 3262; 4364; 4545; 4828
BssECI	C!CNNGG	28	360; 659; 689; 824; 825; 920; 1510; 1635; 1847; 1904; 2247; 2280; 2429; 2483; 3579; 3651; 3774; 3809; 3818; 3867; 4208; 4477; 4882; 5009; 5010; 5112; 5113; 5803
BssHII	G!CGCGC	0	
BssKI	!CCNNGG	32	88; 281; 776; 824; 920; 935; 1064; 1173; 1352; 1397; 1510; 1511; 1847; 1904; 2096; 2412; 2423; 2482; 2492; 3579; 3634; 3651; 4047; 4207; 4430; 4820; 5009; 5112; 5584; 5802; 5815; 5936
BssMI	!GATC	26	585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397
BssNI	GR!CGYC	8	122; 175; 258; 444; 1178; 4045; 4747; 4826
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1246; 4763; 5790
BssSI	C!TCGTG	2	1096; 4637
BssT1I	C!CWWGG	7	360; 2247; 2429; 3774; 3867; 4477; 4882
Bst6I	CTCTTCN!	1	1585
Bst6I	!NNNNGAAGAG	3	3512; 4389; 4599
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 1178; 4045; 4747; 4826
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	4	1379; 3612; 3684; 5146
BstAUI	T!GTACA	1	644
BstBI	TT!CGAA	1	4727
Bst2BI	C!ACGAG	3	1246; 4763; 5790
Bst2BI	C!TCGTG	2	1096; 4637
BstBAI	YAC!GTR	5	340; 1506; 2547; 3161; 4349
Bst4CI	ACN!GT	17	76; 198; 269; 543; 581; 660; 1542; 2281; 2406; 3136; 4425; 4541; 4649; 4972; 5463; 5933; 6004
BstC8I	GCN!NGC	42	86; 279; 593; 613; 703; 907; 1380; 1501; 1576; 1693; 1697; 2205; 2216; 2265; 2452; 2490; 2528; 3264; 3307; 3321; 3594; 3613; 3666; 3685; 3939; 4125; 4344; 4410; 4416; 4444; 4448; 4489; 4493; 4547; 4830; 5017; 5064; 5120; 5142; 5353; 5913; 5950
BstDEI	C!TNAG	16	860; 1157; 1312; 1589; 1794; 2047; 2156; 2455; 2477; 2676; 3525; 3827; 4708; 5157; 5280; 5689
BstDSI	C!CRYGG	6	360; 659; 2247; 2280; 3774; 4477
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	2	2428; 2608
BstF5I	GGATGNN!	5	2564; 3905; 4362; 4387; 4841
BstF5I	!CATCC	10	685; 773; 830; 985; 1340; 1409; 1883; 2114; 2342; 3731
BstFNI	CG!CG	15	60; 2933; 2969; 3345; 3365; 3389; 3420; 4111; 4412; 4850; 4934; 4997; 5066; 5339; 5920
BstH2I	RGCGC!Y	6	1496; 1986; 3312; 3320; 4048; 5723

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstHHI	GCG!C	23	1495; 1985; 2339; 3311; 3319; 3345; 3367; 3376; 3389; 3420; 4039; 4047; 4111; 4148; 4414; 4674; 4850; 4936; 5339; 5448; 5622; 5722; 5789
BstKTI	GAT!C	26	588; 968; 1118; 1144; 1318; 1664; 2195; 2683; 2692; 2705; 3885; 3889; 3908; 4219; 4297; 4378; 4387; 4465; 4841; 4857; 5216; 5228; 5306; 5314; 5325; 5400
BstMAI	GTCTCN!	2	434; 1795
BstMAI	!NNNNNGAGAC	8	1033; 1222; 1480; 2414; 3469; 3887; 4906; 5034
BstMBI	!GATC	26	585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397
BstMCI	CGRY!CG	3	599; 3954; 5629
BstMWI	GCNNNNN!NNGC	36	90; 212; 244; 283; 376; 400; 639; 1070; 1379; 1571; 2015; 2137; 2161; 2317; 2369; 2456; 2527; 3272; 3302; 3329; 3371; 3612; 3684; 3735; 3814; 4036; 4120; 4143; 4282; 4405; 4488; 4755; 4942; 5146; 5345; 5917
BstNI	CC!WGG	26	90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4432; 5011; 5114; 5804; 5817; 5938
BstNSI	RCATG!Y	6	633; 2454; 3615; 3687; 4450; 5967
BstOI	CC!WGG	26	90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4432; 5011; 5114; 5804; 5817; 5938
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	2	1234; 1958
BstSCI	!CCNGG	32	88; 281; 776; 824; 920; 935; 1064; 1173; 1352; 1397; 1510; 1511; 1847; 1904; 2096; 2412; 2423; 2482; 2492; 3579; 3634; 3651; 4047; 4207; 4430; 4820; 5009; 5112; 5584; 5802; 5815; 5936
BstSFI	C!TRYAG	6	1194; 1862; 2183; 3380; 5507; 5698
BstSLI	GKGC!C	12	658; 685; 718; 1295; 1511; 1643; 1711; 2105; 2365; 3991; 4084; 5653
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	15	60; 2933; 2969; 3345; 3365; 3389; 3420; 4111; 4412; 4850; 4934; 4997; 5066; 5339; 5920
Bst2UI	CC!WGG	26	90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4432; 5011; 5114; 5804; 5817; 5938
BstV1I	GCAGCNNNNNNN!	10	812; 1254; 1605; 2351; 2833; 4118; 4160; 4681; 5134; 5634
BstV1I	!NNNNNNNNNNNGCTGC	11	931; 1605; 2254; 2298; 2586; 3327; 3992; 4176; 4269; 5335; 5541
BstV2I	GAAGACNN!	1	902
BstV2I	!NNNNNNGTCTTC	1	1708
BstXI	CCANNNNN!NTGG	3	1420; 1744; 2226
BstX2I	R!GATCY	12	585; 1141; 1315; 2680; 2689; 4216; 4462; 4854; 5213; 5225; 5311; 5322
BstYI	R!GATCY	12	585; 1141; 1315; 2680; 2689; 4216; 4462; 4854; 5213; 5225; 5311; 5322
BstZI	C!GGCCG	1	3951
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3474; 4264; 5765
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3885
Bsu36I	CC!TNAGG	3	860; 3525; 5157
BsuRI	GG!CC	33	84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1352; 1424; 1945; 2131; 2428; 2482; 2584; 3011; 3153; 3808; 3814; 3823; 3866; 3953; 4127; 4518; 4545; 5054; 5111; 5144; 5489; 5923; 5941; 5952
BsuTUI	AT!CGAT	1	3885
BtgI	C!CRYGG	6	360; 659; 2247; 2280; 3774; 4477
BtgZI	GCGATGNNNNNNNNN!	2	3162; 4497
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 4316; 4660
BthCI	GCNG!C	39	752; 803; 947; 1064; 1245; 1596; 1621; 2270; 2314; 2342; 2602; 2824; 3343; 3365; 3379; 3817; 3956; 4008; 4019; 4109; 4114; 4151; 4192; 4279; 4282; 4285; 4521; 4617; 4658; 4672; 4786; 5125; 5140; 5351; 5557; 5560; 5625; 5768; 5923
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	1	2289

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BtsI	GCAGTGNN!	1	1262
BtsI	!CACTGC	2	2036; 2884
BtsCI	GGATGNN!	5	2564; 3905; 4362; 4387; 4841
BtsCI	!CATCC	10	685; 773; 830; 985; 1340; 1409; 1883; 2114; 2342; 3731
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4313; 4763
BveI	!NNNNNNNNGCAGGT	1	3932
Cac8I	GCN!NGC	42	86; 279; 593; 613; 703; 907; 1380; 1501; 1576; 1693; 1697; 2205; 2216; 2265; 2452; 2490; 2528; 3264; 3307; 3321; 3594; 3613; 3666; 3685; 3939; 4125; 4344; 4410; 4416; 4444; 4448; 4489; 4493; 4547; 4830; 5017; 5064; 5120; 5142; 5353; 5913; 5950
CaiI	CAGNNN!CTG	3	1268; 5146; 5554
CciI	T!CATGA	2	3471; 5243
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	352; 4334; 4339; 4537; 4678
CdiI	C!GATG	3	1419; 3148; 4483
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5917
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3706; 3748
CelII	GC!TNAGC	1	2455
CfoI	GCG!C	23	1495; 1985; 2339; 3311; 3319; 3345; 3367; 3376; 3389; 3420; 4039; 4047; 4111; 4148; 4414; 4674; 4850; 4936; 5339; 5448; 5622; 5722; 5789
CfrI	Y!GGCCR	9	1259; 1350; 1422; 2129; 2426; 3951; 4125; 4516; 4543
Cfr9I	C!CCGGG	1	1511
Cfr10I	R!CCGGY	5	1711; 3262; 4364; 4545; 4828
Cfr13I	G!GNCC	14	83; 276; 751; 994; 1086; 1680; 2496; 2583; 3152; 4561; 5006; 5052; 5110; 5143
Cfr42I	CCGC!GG	0	
ChaI	GATC!	26	589; 969; 1119; 1145; 1319; 1665; 2196; 2684; 2693; 2706; 3886; 3890; 3909; 4220; 4298; 4379; 4388; 4466; 4842; 4858; 5217; 5229; 5307; 5315; 5326; 5401
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	2044; 3862; 5302; 5402; 5480
CjeI	!NNNNNNNNNACNNNNNNNTGG	9	64; 257; 1479; 1746; 3529; 3624; 4816; 5366; 5921
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	9	98; 291; 1513; 1780; 3563; 3658; 4850; 5400; 5955
CjeI	!NNNNNNNNCCANNNNNNGT	5	2010; 3828; 5268; 5368; 5446
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	3	2044; 5302; 5480
CjePI	!NNNNNNNNGANNNNNNNTGG	7	257; 722; 1067; 1479; 2040; 4816; 5415
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	7	290; 755; 1100; 1512; 2073; 4849; 5448
CjePI	!NNNNNNNNCCANNNNNNNNTC	3	2011; 5269; 5447
Clal	AT!CGAT	1	3885
CpoI	CG!GWCCG	1	4561
CseI	GACGCNNNNN!	4	526; 1050; 4755; 4834
CseI	!NNNNNNNNNNGCGTC	4	1167; 3378; 5273; 5851
CsiI	A!CCWGGT	2	2096; 3634
CspI	CG!GWCCG	1	4561
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 645; 1047; 2277; 2434; 2544; 4350
Csp45I	TT!CGAA	1	4727
CspAI	A!CCGGT	1	1711
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	2	1527; 2454
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	2	1562; 2489
CspCI	!NNNNNNNNNNNCAANNNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNNNN!	6	647; 1238; 1682; 2670; 3325; 4934
CstMI	!NNNNNNNNNNNNNNNNNNNNCTCCTT	1	1445
CviAII	C!ATG	28	301; 361; 606; 630; 636; 648; 726; 872; 1083; 1782; 1929; 2170; 2248; 2259; 2451; 3472; 3612; 3684; 3775; 3916; 4261; 4447; 4478; 4504; 4860; 5244; 5964; 6015

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviJI	RG!CY	123	42; 84; 93; 277; 566; 615; 642; 705; 752; 781; 788; 866; 932; 944; 995; 1022; 1030; 1064; 1087; 1095; 1109; 1219; 1261; 1299; 1352; 1357; 1389; 1416; 1424; 1516; 1578; 1596; 1695; 1699; 1724; 1742; 1821; 1861; 1872; 1945; 2018; 2062; 2131; 2164; 2178; 2214; 2218; 2263; 2372; 2397; 2428; 2443; 2470; 2482; 2488; 2584; 2599; 2714; 2824; 2991; 3011; 3153; 3234; 3248; 3262; 3543; 3584; 3656; 3779; 3808; 3814; 3823; 3831; 3854; 3866; 3872; 3953; 3970; 3978; 4005; 4030; 4114; 4123; 4127; 4151; 4189; 4265; 4282; 4301; 4364; 4408; 4418; 4435; 4518; 4545; 4549; 4586; 4609; 4625; 4805; 4832; 4893; 5015; 5054; 5111; 5118; 5125; 5144; 5155; 5406; 5435; 5478; 5489; 5554; 5633; 5658; 5663; 5709; 5799; 5897; 5923; 5941; 5952
CviKI-1	RG!CY	123	42; 84; 93; 277; 566; 615; 642; 705; 752; 781; 788; 866; 932; 944; 995; 1022; 1030; 1064; 1087; 1095; 1109; 1219; 1261; 1299; 1352; 1357; 1389; 1416; 1424; 1516; 1578; 1596; 1695; 1699; 1724; 1742; 1821; 1861; 1872; 1945; 2018; 2062; 2131; 2164; 2178; 2214; 2218; 2263; 2372; 2397; 2428; 2443; 2470; 2482; 2488; 2584; 2599; 2714; 2824; 2991; 3011; 3153; 3234; 3248; 3262; 3543; 3584; 3656; 3779; 3808; 3814; 3823; 3831; 3854; 3866; 3872; 3953; 3970; 3978; 4005; 4030; 4114; 4123; 4127; 4151; 4189; 4265; 4282; 4301; 4364; 4408; 4418; 4435; 4518; 4545; 4549; 4586; 4609; 4625; 4805; 4832; 4893; 5015; 5054; 5111; 5118; 5125; 5144; 5155; 5406; 5435; 5478; 5489; 5554; 5633; 5658; 5663; 5709; 5799; 5897; 5923; 5941; 5952
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 645; 1047; 2277; 2434; 2544; 4350
DdeI	C!TNAG	16	860; 1157; 1312; 1589; 1794; 2047; 2156; 2455; 2477; 2676; 3525; 3827; 4708; 5157; 5280; 5689
DinI	GGC!GCC	1	4046
DpnI	GA!TC	26	587; 967; 1117; 1143; 1317; 1663; 2194; 2682; 2691; 2704; 3884; 3888; 3907; 4218; 4296; 4377; 4386; 4464; 4840; 4856; 5215; 5227; 5305; 5313; 5324; 5399
DpnII	!GATC	26	585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397
DraI	TTT!AAA	3	2747; 5189; 5208
DraII	RG!GNCCY	1	5143
DraIII	CACNNN!GTG	2	1251; 3161
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	3	266; 1526; 5525
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	3	3116; 4072; 5861
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	2	476; 1942
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	3116; 4072; 5861
EaeI	Y!GGCCR	9	1259; 1350; 1422; 2129; 2426; 3951; 4125; 4516; 4543
EagI	C!GGCCG	1	3951
Eam1104I	CTCTCN!	1	1585
Eam1104I	!NNNNGAAGAG	3	3512; 4389; 4599
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	1	1585
EarI	!NNNNGAAGAG	3	3512; 4389; 4599
EciI	GGCGANNNNNNNNNNNN!	4	3545; 4574; 5761; 5907
EciI	!NNNNNNNNNTCCGCC	4	496; 3716; 3737; 3758
Ecl136II	GAG!CTC	1	1389
EclXI	C!GGCCG	1	3951
Eco24I	GRGCY!C	7	1391; 1874; 2064; 2490; 3236; 4410; 5120
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	3	1222; 2414; 5034
Eco32I	GAT!ATC	1	1977
Eco47I	G!GWCC	4	1680; 2496; 4561; 5006
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	1	3951
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	1111; 4191; 4623
Eco57I	!NNNNNNNNNNNNNNNNCTCAG	3	1464; 1702; 5421
Eco72I	CAC!GTG	1	1506
Eco81I	CC!TNAGG	3	860; 3525; 5157
Eco88I	C!YCGRG	3	1319; 1511; 1634

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	7	360; 2247; 2429; 3774; 3867; 4477; 4882
Eco147I	AGG!CCT	3	1030; 2482; 3866
EcoHI	!CCSGG	6	1510; 1511; 4047; 4207; 4820; 5584
EcoICRI	GAG!CTC	1	1389
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	6	1111; 1843; 1927; 4191; 4623; 4885
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	5	919; 1464; 1702; 4828; 5421
EcoNI	CCTNN!NNNAGG	2	2428; 2608
EcoO65I	G!GTNACC	0	
EcoO109I	RG!GNCCY	1	5143
EcoRI	G!AATTC	2	1685; 2083
EcoRII	!CCWGG	26	88; 281; 776; 824; 920; 935; 1064; 1173; 1352; 1397; 1847; 1904; 2096; 2412; 2423; 2482; 2492; 3579; 3634; 3651; 4430; 5009; 5112; 5802; 5815; 5936
EcoRV	GAT!ATC	1	1977
EcoT14I	C!CWWGG	7	360; 2247; 2429; 3774; 3867; 4477; 4882
EcoT22I	ATGCA!T	3	3617; 3689; 6020
EcoT38I	GRGCY!C	7	1391; 1874; 2064; 2490; 3236; 4410; 5120
Eco53kI	GAG!CTC	1	1389
EgeI	GGC!GCC	1	4046
EheI	GGC!GCC	1	4046
ErhI	C!CWWGG	7	360; 2247; 2429; 3774; 3867; 4477; 4882
EsaBC3I	TC!GA	17	744; 771; 1239; 1321; 1974; 1980; 3195; 3886; 4159; 4315; 4339; 4375; 4537; 4728; 4773; 5028; 5866
Esp3I	CGTCTCN!	1	1795
Esp3I	!NNNNNGAGACG	2	1033; 1480
FaeI	CATG!	28	304; 364; 609; 633; 639; 651; 729; 875; 1086; 1785; 1932; 2173; 2251; 2262; 2454; 3475; 3615; 3687; 3778; 3919; 4264; 4450; 4481; 4507; 4863; 5247; 5967; 6018
Fail	YA!TR	76	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 607; 631; 637; 649; 727; 873; 891; 1084; 1137; 1139; 1187; 1631; 1783; 1805; 1930; 1952; 2136; 2138; 2171; 2249; 2260; 2452; 2519; 2596; 2618; 2707; 2717; 2783; 2828; 3033; 3461; 3473; 3604; 3613; 3676; 3685; 3709; 3776; 3800; 3917; 3981; 4262; 4287; 4448; 4479; 4505; 4577; 4793; 4861; 4939; 4991; 5152; 5169; 5171; 5173; 5245; 5523; 5712; 5828; 5901; 5965; 6016
FalI	AAGNNNNNCTNNNNNNNNNNNN!	3	870; 2547; 4385
FalI	!NNNNNNNNAAGNNNNNCTT	3	838; 2515; 4353
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4196; 4728; 4837
FaqI	!NNNNNNNNNNNNNGTCCC	4	3561; 3633; 3697; 4992
FatI	!CATG	28	300; 360; 605; 629; 635; 647; 725; 871; 1082; 1781; 1928; 2169; 2247; 2258; 2450; 3471; 3611; 3683; 3774; 3915; 4260; 4446; 4477; 4503; 4859; 5243; 5963; 6014
FauI	CCCGCNNNN!	11	93; 119; 286; 1059; 1161; 2119; 3367; 3722; 3743; 4939; 5071
FauI	!NNNNNNNGCGGG	6	1096; 3298; 4168; 4705; 4843; 4990
FauNDI	CA!TATG	2	234; 2136
FbaI	T!GATCA	1	2702
FblI	GT!MKAC	3	1181; 1526; 1934
FmuI	GGNC!C	14	86; 279; 754; 997; 1089; 1683; 2499; 2586; 3155; 4564; 5009; 5055; 5113; 5146
Fnu4HI	GC!NGC	39	750; 801; 945; 1062; 1243; 1594; 1619; 2268; 2312; 2340; 2600; 2822; 3341; 3363; 3377; 3815; 3954; 4006; 4017; 4107; 4112; 4149; 4190; 4277; 4280; 4283; 4519; 4615; 4656; 4670; 4784; 5123; 5138; 5349; 5555; 5558; 5623; 5766; 5921
FokI	GGATGNNNNNNNNNN!	5	2571; 3912; 4369; 4394; 4848
FokI	!NNNNNNNNNNNNNCATCC	10	672; 760; 817; 972; 1327; 1396; 1870; 2101; 2329; 3718
FriOI	GRGCY!C	7	1391; 1874; 2064; 2490; 3236; 4410; 5120
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	4147
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	10	592; 785; 1280; 2693; 2894; 3312; 3868; 4883; 5217; 5470

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	208	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 615; 672; 702; 719; 733; 766; 780; 805; 822; 837; 867; 900; 927; 942; 961; 1002; 1044; 1063; 1078; 1101; 1123; 1146; 1166; 1187; 1233; 1275; 1291; 1320; 1353; 1378; 1392; 1411; 1426; 1445; 1479; 1523; 1550; 1581; 1597; 1635; 1662; 1684; 1717; 1750; 1785; 1830; 1845; 1859; 1886; 1900; 1914; 1938; 1959; 1984; 1999; 2014; 2032; 2046; 2076; 2101; 2117; 2131; 2145; 2178; 2211; 2228; 2254; 2284; 2309; 2328; 2346; 2377; 2407; 2426; 2442; 2478; 2496; 2512; 2535; 2598; 2616; 2697; 2728; 2767; 2781; 2922; 3017; 3041; 3064; 3087; 3105; 3127; 3148; 3167; 3186; 3215; 3236; 3250; 3276; 3364; 3390; 3439; 3480; 3498; 3537; 3553; 3591; 3648; 3663; 3720; 3740; 3754; 3771; 3785; 3822; 3837; 3880; 3963; 4030; 4061; 4081; 4096; 4141; 4155; 4221; 4235; 4254; 4270; 4311; 4331; 4378; 4428; 4444; 4464; 4489; 4509; 4532; 4559; 4577; 4603; 4643; 4669; 4693; 4749; 4763; 4791; 4834; 4855; 4890; 4934; 5022; 5046; 5068; 5088; 5104; 5125; 5139; 5158; 5242; 5262; 5290; 5305; 5339; 5381; 5408; 5423; 5468; 5492; 5506; 5528; 5554; 5574; 5598; 5624; 5672; 5691; 5710; 5736; 5771; 5816; 5846; 5860; 5911; 5925; 5950; 5966; 5987; 6016
FspEI	!NNNNNNNNNNNNNGG	167	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 580; 607; 634; 676; 697; 721; 763; 782; 811; 847; 884; 907; 926; 956; 977; 1004; 1043; 1069; 1088; 1160; 1186; 1234; 1273; 1292; 1334; 1355; 1384; 1406; 1433; 1474; 1497; 1516; 1547; 1589; 1622; 1642; 1663; 1681; 1705; 1730; 1748; 1768; 1790; 1834; 1891; 1915; 2042; 2083; 2113; 2212; 2234; 2267; 2338; 2362; 2392; 2410; 2464; 2526; 2545; 2566; 2596; 2617; 2635; 2653; 2672; 2716; 2816; 2885; 2993; 3042; 3064; 3092; 3128; 3173; 3202; 3238; 3257; 3285; 3305; 3368; 3391; 3499; 3531; 3549; 3578; 3621; 3650; 3761; 3790; 3833; 3854; 3882; 3915; 3935; 3960; 3987; 4012; 4034; 4062; 4088; 4109; 4160; 4181; 4199; 4247; 4283; 4339; 4364; 4388; 4417; 4440; 4464; 4490; 4512; 4531; 4556; 4596; 4632; 4697; 4782; 4806; 4835; 4869; 4890; 4910; 4955; 4982; 5001; 5034; 5086; 5117; 5144; 5196; 5294; 5365; 5410; 5471; 5536; 5570; 5596; 5614; 5650; 5720; 5743; 5765; 5789; 5822; 5870; 5905; 5923; 5980
Fsp4HI	GC!NGC	39	750; 801; 945; 1062; 1243; 1594; 1619; 2268; 2312; 2340; 2600; 2822; 3341; 3363; 3377; 3815; 3954; 4006; 4017; 4107; 4112; 4149; 4190; 4277; 4280; 4283; 4519; 4615; 4656; 4670; 4784; 5123; 5138; 5349; 5555; 5558; 5623; 5766; 5921
GdiII	C!GGCCR	1	3951
GdiII	Y!GGCCG	3	3951; 4516; 4543
GlaI	GC!GC	23	1494; 1984; 2338; 3310; 3318; 3344; 3366; 3375; 3388; 3419; 4038; 4046; 4110; 4147; 4413; 4673; 4849; 4935; 5338; 5447; 5621; 5721; 5788
GluI	GC!NGC	39	750; 801; 945; 1062; 1243; 1594; 1619; 2268; 2312; 2340; 2600; 2822; 3341; 3363; 3377; 3815; 3954; 4006; 4017; 4107; 4112; 4149; 4190; 4277; 4280; 4283; 4519; 4615; 4656; 4670; 4784; 5123; 5138; 5349; 5555; 5558; 5623; 5766; 5921
GsaI	CCCAG!C	4	1843; 3592; 3664; 5663
GsaI	GCTGG!G	3	1026; 1386; 4553
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	3	1843; 1927; 4885
GsuI	!NNNNNNNNNNNNNCTCCAG	2	919; 4828
HaeI	WGG!CCW	14	1030; 1219; 1261; 1352; 1424; 1945; 2131; 2428; 2482; 3866; 4127; 5489; 5941; 5952
HaeII	RGCGC!Y	6	1496; 1986; 3312; 3320; 4048; 5723
HaeIII	GG!CC	33	84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1352; 1424; 1945; 2131; 2428; 2482; 2584; 3011; 3153; 3808; 3814; 3823; 3866; 3953; 4127; 4518; 4545; 5054; 5111; 5144; 5489; 5923; 5941; 5952
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	2720; 4241
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	2686; 4207
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	2	2719; 4240
HaeIV	!NNNNNNNNNGAYNNNNNNRTC	2	2688; 4209
HapII	C!CGG	20	1307; 1512; 1712; 2687; 3263; 3950; 4027; 4049; 4077; 4208; 4298; 4365; 4546; 4821; 4829; 4921; 5395; 5585; 5611; 5758
HgaI	GACGCNNNNN!	4	526; 1050; 4755; 4834
HgaI	!NNNNNNNNNNNGCGTC	4	1167; 3378; 5273; 5851

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HhaI	GCG!C	23	1495; 1985; 2339; 3311; 3319; 3345; 3367; 3376; 3389; 3420; 4039; 4047; 4111; 4148; 4414; 4674; 4850; 4936; 5339; 5448; 5622; 5722; 5789
Hin1I	GR!CGYC	8	122; 175; 258; 444; 1178; 4045; 4747; 4826
Hin1II	CATG!	28	304; 364; 609; 633; 639; 651; 729; 875; 1086; 1785; 1932; 2173; 2251; 2262; 2454; 3475; 3615; 3687; 3778; 3919; 4264; 4450; 4481; 4507; 4863; 5247; 5967; 6018
Hin4I	GAYNNNNVTCNNNNNNNNNNNN!	2	2719; 4240
Hin4I	!NNNNNNNGABNNNNNRTC	3	2687; 4208; 4238
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	2719; 4240; 4270
Hin4I	!NNNNNNNGAYNNNNNVTC	2	2687; 4208
Hin6I	G!CGC	23	1493; 1983; 2337; 3309; 3317; 3343; 3365; 3374; 3387; 3418; 4037; 4045; 4109; 4146; 4412; 4672; 4848; 4934; 5337; 5446; 5620; 5720; 5787
HinP1I	G!CGC	23	1493; 1983; 2337; 3309; 3317; 3343; 3365; 3374; 3387; 3418; 4037; 4045; 4109; 4146; 4412; 4672; 4848; 4934; 5337; 5446; 5620; 5720; 5787
HincII	GTY!RAC	2	2073; 2808
HindII	GTY!RAC	2	2073; 2808
HindIII	A!AGCTT	1	1297
HinfI	G!ANTC	17	410; 731; 881; 1208; 1310; 1462; 2635; 3088; 3110; 3520; 4530; 4664; 4716; 4774; 4811; 5593; 5989
HpaI	GTT!AAC	1	2808
HpaII	C!CGG	20	1307; 1512; 1712; 2687; 3263; 3950; 4027; 4049; 4077; 4208; 4298; 4365; 4546; 4821; 4829; 4921; 5395; 5585; 5611; 5758
HphI	GGTGANNNNNNNN!	8	376; 987; 2241; 2296; 2563; 2665; 5116; 5232
HphI	!NNNNNNNTCACC	7	876; 1026; 1761; 1881; 2187; 3162; 4223
Hpy8I	GTN!NAC	19	201; 539; 577; 663; 683; 978; 1182; 1191; 1527; 1709; 1769; 1935; 2073; 2538; 2808; 3092; 3109; 3164; 5651
Hpy99I	CGWCG!	8	1240; 4135; 4163; 4457; 4472; 4749; 5134; 5867
Hpy166II	GTN!NAC	19	201; 539; 577; 663; 683; 978; 1182; 1191; 1527; 1709; 1769; 1935; 2073; 2538; 2808; 3092; 3109; 3164; 5651
Hpy188I	TCN!GA	17	585; 690; 970; 1115; 1315; 1917; 2580; 3219; 3828; 4012; 4356; 4709; 4810; 5289; 5423; 5776; 5854
Hpy188III	TC!NNGA	27	963; 1128; 1167; 1307; 1319; 1365; 2088; 2693; 3472; 3524; 3837; 3890; 4063; 4379; 4388; 4471; 4527; 4571; 4661; 4694; 4763; 5244; 5318; 5401; 5499; 5597; 5731
HpyAV	CCTTCNNNNNN!	9	771; 819; 864; 1041; 1476; 1935; 4690; 4797; 5476
HpyAV	!NNNNNGAAGG	13	691; 1063; 2560; 2604; 2638; 2656; 3278; 4173; 4902; 4918; 5101; 5418; 5728
HpyCH4III	ACN!GT	17	76; 198; 269; 543; 581; 660; 1542; 2281; 2406; 3136; 4425; 4541; 4649; 4972; 5463; 5933; 6004
HpyCH4IV	A!CGT	21	122; 134; 175; 258; 339; 444; 959; 1235; 1346; 1505; 1788; 2288; 2546; 3105; 3117; 3160; 3270; 4161; 4348; 5129; 5262
HpyCH4V	TG!CA	22	633; 683; 1005; 1334; 1709; 2450; 2794; 2821; 2889; 3606; 3615; 3678; 3687; 3802; 3878; 3937; 4096; 4271; 4285; 5355; 5651; 6018
HpyF3I	C!TNAG	16	860; 1157; 1312; 1589; 1794; 2047; 2156; 2455; 2477; 2676; 3525; 3827; 4708; 5157; 5280; 5689
HpyF10VI	GCNNNNN!NNGC	36	90; 212; 244; 283; 376; 400; 639; 1070; 1379; 1571; 2015; 2137; 2161; 2317; 2369; 2456; 2527; 3272; 3302; 3329; 3371; 3612; 3684; 3735; 3814; 4036; 4120; 4143; 4282; 4405; 4488; 4755; 4942; 5146; 5345; 5917
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 1178; 4045; 4747; 4826
Hsp92II	CATG!	28	304; 364; 609; 633; 639; 651; 729; 875; 1086; 1785; 1932; 2173; 2251; 2262; 2454; 3475; 3615; 3687; 3778; 3919; 4264; 4450; 4481; 4507; 4863; 5247; 5967; 6018
HspAI	G!CGC	23	1493; 1983; 2337; 3309; 3317; 3343; 3365; 3374; 3387; 3418; 4037; 4045; 4109; 4146; 4412; 4672; 4848; 4934; 5337; 5446; 5620; 5720; 5787
KasI	G!GCGCC	1	4044
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1306
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	2702
KspAI	GTT!AAC	1	2808

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kzo9I	!GATC	26	585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397
LguI	GCTCTCN!	1	1585
LguI	!NNNNGAAGAGC	2	4389; 4599
LpnI	RGCI!GCY	6	1494; 1984; 3310; 3318; 4046; 5721
LpnPI	CCDGNNNNNNNNNN!	81	102; 295; 733; 790; 838; 872; 934; 949; 1010; 1078; 1102; 1187; 1275; 1320; 1366; 1392; 1411; 1426; 1525; 1588; 1717; 1789; 1853; 1918; 2032; 2059; 2077; 2101; 2156; 2228; 2284; 2359; 2407; 2426; 2496; 2524; 2700; 2782; 3087; 3276; 3499; 3537; 3553; 3593; 3648; 3665; 3765; 3850; 3963; 4040; 4062; 4085; 4221; 4235; 4254; 4311; 4378; 4428; 4444; 4501; 4559; 4768; 4834; 4858; 4934; 5023; 5126; 5159; 5390; 5408; 5554; 5574; 5598; 5624; 5673; 5771; 5816; 5846; 5925; 5950; 5987
LpnPI	!NNNNNNNNNNNNNNCHGG	71	75; 268; 552; 763; 811; 907; 1008; 1051; 1160; 1186; 1273; 1292; 1339; 1368; 1481; 1547; 1589; 1681; 1705; 1742; 1807; 1834; 1891; 2083; 2113; 2354; 2399; 2469; 2526; 2672; 3128; 3248; 3305; 3368; 3566; 3578; 3638; 3650; 3882; 3927; 3970; 4012; 4034; 4062; 4109; 4171; 4193; 4283; 4350; 4373; 4417; 4512; 4531; 4556; 4705; 4806; 4849; 4906; 4996; 5099; 5126; 5144; 5380; 5417; 5570; 5596; 5736; 5754; 5789; 5870; 5923
Lsp1109I	GCAGCNNNNNNNN!	10	812; 1254; 1605; 2351; 2833; 4118; 4160; 4681; 5134; 5634
Lsp1109I	!NNNNNNNNNNNNNGCTGC	11	931; 1605; 2254; 2298; 2586; 3327; 3992; 4176; 4269; 5335; 5541
LweI	GCATCNNNNN!	12	839; 1343; 1418; 2123; 2351; 2393; 2861; 3624; 3696; 4344; 4408; 4683
LweI	!NNNNNNNNNGATGC	9	357; 992; 1160; 1418; 1605; 4003; 4258; 4474; 5866
MabI	A!CCWGGT	2	2096; 3634
MaeI	C!TAG	10	592; 785; 1280; 2693; 2894; 3312; 3868; 4883; 5217; 5470
MaeII	A!CGT	21	122; 134; 175; 258; 339; 444; 959; 1235; 1346; 1505; 1788; 2288; 2546; 3105; 3117; 3160; 3270; 4161; 4348; 5129; 5262
MaeIII	!GTNAC	16	61; 148; 497; 882; 1435; 2236; 2284; 2833; 3334; 3346; 4165; 4471; 5161; 5427; 5543; 5606
MalI	GA!TC	26	587; 967; 1117; 1143; 1317; 1663; 2194; 2682; 2691; 2704; 3884; 3888; 3907; 4218; 4296; 4377; 4386; 4464; 4840; 4856; 5215; 5227; 5305; 5313; 5324; 5399
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	5	144; 197; 466; 540; 1692
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	4	157; 240; 426; 2285
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3469; 4658
MbiI	GAG!CGG	2	3305; 4712
MboI	!GATC	26	585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397
MboII	GAAGANNNNNNNN!	10	907; 1020; 1624; 2602; 2671; 3301; 3529; 4406; 4616; 5235
MboII	!NNNNNNNTCTTC	8	834; 1470; 1572; 1708; 4696; 4863; 5063; 5306
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2795
MflI	R!GATCY	12	585; 1141; 1315; 2680; 2689; 4216; 4462; 4854; 5213; 5225; 5311; 5322
MhII	GDGCH!C	22	658; 685; 718; 1295; 1391; 1511; 1643; 1711; 1874; 1913; 2064; 2105; 2365; 2490; 3236; 3991; 4084; 4158; 4348; 4410; 5120; 5653
MIsI	TGG!CCA	6	1261; 1352; 1424; 2131; 2428; 4127
MluI	A!CGCGT	1	2931
MluNI	TGG!CCA	6	1261; 1352; 1424; 2131; 2428; 4127
MlyI	GAGTCNNNNN!	3	890; 3097; 3529
MlyI	!NNNNNGACTC	6	404; 1304; 1456; 3104; 4710; 5587
Mly113I	GG!CGCC	1	4045
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	2	1013; 3138
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	3	1658; 5570; 5754
MnlI	CCTCNNNNNNN!	20	764; 802; 943; 958; 1174; 1285; 1782; 1897; 1981; 2040; 2135; 2252; 2408; 2764; 3828; 4646; 4852; 5166; 5536; 5860
MnlI	!NNNNNGAGG	31	541; 645; 684; 705; 738; 855; 964; 1020; 1209; 1242; 1447; 1630; 1935; 2472; 2547; 2574; 2613; 2643; 2661; 2724; 3189; 3520; 3798; 3841; 3856; 3896; 3960; 4096; 4453; 4883; 5786
Mph1103I	ATGCA!T	3	3617; 3689; 6020
MreI	CG!CCGGCG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MroI	T!CCGGA	1	1306
MroNI	G!CCGGC	3	3262; 4545; 4828
MroXI	GAANN!NNTTC	1	1758
MscI	TGG!CCA	6	1261; 1352; 1424; 2131; 2428; 4127
MseI	T!TAA	18	7; 620; 1301; 2003; 2746; 2807; 2928; 2949; 2960; 2972; 2983; 3000; 3098; 3369; 5188; 5202; 5207; 5259
MslI	CAYNN!NNRTG	4	365; 634; 2407; 4482
MspI	C!CGG	20	1307; 1512; 1712; 2687; 3263; 3950; 4027; 4049; 4077; 4208; 4298; 4365; 4546; 4821; 4829; 4921; 5395; 5585; 5611; 5758
Msp20I	TGG!CCA	6	1261; 1352; 1424; 2131; 2428; 4127
MspA1I	CMG!CKG	6	1054; 1861; 3543; 4151; 5380; 5625
MspCI	C!TTAAG	0	
MspJI	CNNRNNNNNNNNN!	306	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; 618; 642; 660; 690; 708; 723; 738; 756; 789; 816; 832; 847; 871; 884; 900; 918; 932; 948; 961; 975; 996; 1009; 1030; 1049; 1063; 1077; 1095; 1108; 1126; 1140; 1157; 1177; 1209; 1224; 1239; 1258; 1274; 1291; 1306; 1319; 1333; 1357; 1370; 1391; 1410; 1425; 1438; 1452; 1502; 1516; 1542; 1570; 1587; 1600; 1614; 1634; 1647; 1668; 1684; 1702; 1716; 1732; 1750; 1769; 1788; 1806; 1821; 1834; 1851; 1869; 1886; 1900; 1917; 1941; 1975; 1992; 2009; 2023; 2058; 2076; 2089; 2105; 2123; 2140; 2155; 2168; 2182; 2201; 2216; 2231; 2255; 2271; 2293; 2308; 2340; 2358; 2377; 2406; 2425; 2441; 2463; 2478; 2495; 2512; 2534; 2553; 2583; 2597; 2617; 2688; 2705; 2718; 2733; 2752; 2769; 2782; 2823; 2837; 2850; 2868; 2906; 2921; 2939; 2980; 3004; 3024; 3042; 3063; 3086; 3118; 3133; 3155; 3173; 3186; 3207; 3224; 3237; 3250; 3266; 3279; 3309; 3324; 3349; 3367; 3380; 3395; 3419; 3433; 3457; 3482; 3498; 3536; 3552; 3591; 3605; 3619; 3647; 3663; 3677; 3691; 3720; 3733; 3754; 3763; 3785; 3815; 3831; 3849; 3879; 3902; 3926; 3950; 3969; 3997; 4023; 4039; 4052; 4075; 4089; 4109; 4122; 4136; 4155; 4169; 4182; 4198; 4213; 4226; 4242; 4257; 4273; 4298; 4317; 4333; 4346; 4359; 4377; 4391; 4405; 4421; 4443; 4459; 4478; 4500; 4516; 4539; 4558; 4572; 4588; 4602; 4622; 4638; 4651; 4673; 4706; 4720; 4740; 4753; 4767; 4821; 4834; 4857; 4870; 4889; 4906; 4933; 4969; 5002; 5021; 5046; 5067; 5094; 5107; 5124; 5138; 5153; 5169; 5229; 5254; 5270; 5292; 5305; 5319; 5350; 5364; 5389; 5407; 5422; 5435; 5454; 5467; 5482; 5511; 5530; 5548; 5573; 5588; 5607; 5623; 5642; 5660; 5676; 5690; 5709; 5736; 5759; 5781; 5800; 5815; 5828; 5845; 5865; 5892; 5905; 5924; 5949; 5972; 5986; 5999; 6016
MspJI	!NNNNNNNNNNNNYNG	254	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 592; 616; 634; 664; 688; 706; 730; 749; 771; 790; 811; 832; 858; 878; 907; 949; 983; 1004; 1024; 1051; 1069; 1086; 1114; 1132; 1153; 1172; 1198; 1220; 1248; 1266; 1292; 1311; 1331; 1351; 1369; 1391; 1411; 1434; 1467; 1486; 1504; 1542; 1561; 1590; 1616; 1638; 1658; 1678; 1698; 1715; 1735; 1762; 1781; 1804; 1826; 1855; 1891; 1915; 1937; 1958; 2001; 2032; 2050; 2074; 2097; 2114; 2138; 2156; 2190; 2209; 2229; 2250; 2267; 2320; 2338; 2355; 2380; 2399; 2416; 2433; 2464; 2488; 2509; 2527; 2557; 2581; 2603; 2624; 2641; 2663; 2697; 2726; 2755; 2797; 2880; 2918; 2942; 2965; 2994; 3038; 3060; 3092; 3128; 3145; 3166; 3203; 3223; 3240; 3257; 3292; 3310; 3328; 3345; 3369; 3391; 3418; 3446; 3472; 3510; 3531; 3548; 3566; 3589; 3610; 3638; 3661; 3682; 3700; 3721; 3738; 3761; 3785; 3805; 3823; 3845; 3876; 3898; 3924; 3943; 3960; 3988; 4007; 4026; 4044; 4062; 4083; 4105; 4129; 4162; 4182; 4200; 4221; 4247; 4274; 4291; 4308; 4325; 4351; 4373; 4395; 4413; 4433; 4452; 4474; 4512; 4532; 4556; 4576; 4596; 4623; 4647; 4680; 4699; 4727; 4749; 4778; 4806; 4831; 4850; 4869; 4890; 4907; 4924; 4955; 4982; 5002; 5025; 5045; 5082; 5099; 5118; 5144; 5164; 5203; 5230; 5249; 5267; 5304; 5322; 5363; 5381; 5407; 5424; 5456; 5485; 5513; 5534; 5557; 5576; 5597; 5615; 5632; 5650; 5676; 5697; 5717; 5737; 5755; 5776; 5802; 5819; 5838; 5857; 5886; 5905; 5923; 5942; 5960; 5978; 6001
MspR9I	CC!NGG	32	90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1512; 1513; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4049; 4209; 4432; 4822; 5011; 5114; 5586; 5804; 5817; 5938
MssI	GTTT!AAAC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MunI	C!AATTG	1	2795
MvaI	CC!WGG	26	90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4432; 5011; 5114; 5804; 5817; 5938
Mva1269I	GAATGCN!	1	2796
Mva1269I	G!CATTC	1	2889
MvnI	CG!CG	15	60; 2933; 2969; 3345; 3365; 3389; 3420; 4111; 4412; 4850; 4934; 4997; 5066; 5339; 5920
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	36	90; 212; 244; 283; 376; 400; 639; 1070; 1379; 1571; 2015; 2137; 2161; 2317; 2369; 2456; 2527; 3272; 3302; 3329; 3371; 3612; 3684; 3735; 3814; 4036; 4120; 4143; 4282; 4405; 4488; 4755; 4942; 5146; 5345; 5917
NaeI	GCC!GGC	3	3264; 4547; 4830
NarI	GG!CGCC	1	4045
NciI	CC!SGG	6	1512; 1513; 4049; 4209; 4822; 5586
NcoI	C!CATGG	4	360; 2247; 3774; 4477
NdeI	CA!TATG	2	234; 2136
NdeII	!GATC	26	585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	722
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	758
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	3262; 4545; 4828
NheI	G!CTAGC	1	591
NlaIII	CATG!	28	304; 364; 609; 633; 639; 651; 729; 875; 1086; 1785; 1932; 2173; 2251; 2262; 2454; 3475; 3615; 3687; 3778; 3919; 4264; 4450; 4481; 4507; 4863; 5247; 5967; 6018
NlaIV	GGN!NCC	25	467; 657; 717; 1108; 1535; 1566; 2061; 2102; 2294; 2362; 2411; 2682; 3200; 3221; 3233; 3424; 3585; 3657; 4046; 4081; 4929; 5008; 5053; 5896; 5935
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	6	694; 1623; 2058; 2877; 3192; 4784
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 982; 5856
Nli3877I	CYCGR!G	3	1323; 1515; 1638
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3834; 4270
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	998; 3799
NmeDI	RCCGGYNNNNNNN!	5	1723; 3274; 4376; 4557; 4840
NmeDI	!NNNNNNNNNNNNRCCGGY	5	1698; 3249; 4351; 4532; 4815
NmuCI	!GTSAC	7	882; 1435; 2236; 2284; 3334; 4165; 4471
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4147
NsiI	ATGCA!T	3	3617; 3689; 6020
NspI	RCATG!Y	6	633; 2454; 3615; 3687; 4450; 5967
NspV	TT!CGAA	1	4727
OliI	CACNN!NNGTG	1	2407
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 647; 1049; 2279; 2436; 2546; 4352
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	2454; 3615; 3687; 4450
PaeR7I	C!TCGAG	1	1319
PagI	T!CATGA	2	3471; 5243
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	825; 5010; 5113
PauI	G!CGCGC	0	
PceI	AGG!CCT	3	1030; 2482; 3866
PciI	A!CATGT	1	5963
PciSI	GCTCTCN!	1	1585
PciSI	!NNNNGAAGAGC	2	4389; 4599
PcsI	WCGNNNN!NNNCGW	7	1232; 4339; 4416; 4659; 4733; 5126; 5644
PctI	GAATGCN!	1	2796
PctI	G!CATTC	1	2889
PdiI	GCC!GGC	3	3264; 4547; 4830
PdmI	GAANN!NNTTC	1	1758

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PfeI	G!AWTC	8	731; 1208; 2635; 4530; 4664; 4774; 4811; 5989
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	4163
PfIMI	CCANNNN!NTGG	1	2352
PfoI	T!CCNGGA	2	935; 4820
PhoI	GG!CC	33	84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1352; 1424; 1945; 2131; 2428; 2482; 2584; 3011; 3153; 3808; 3814; 3823; 3866; 3953; 4127; 4518; 4545; 5054; 5111; 5144; 5489; 5923; 5941; 5952
PinAI	A!CCGGT	1	1711
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	1	4426
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	2492; 3991; 4246
PleI	GAGTCNNNN!	3	889; 3096; 3528
PleI	!NNNNNGACTC	6	404; 1304; 1456; 3104; 4710; 5587
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	1506
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	1	1506
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	3127
PpiI	!NNNNNNNGAGNNNNNGTTC	1	5257
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	5289
PpiI	!NNNNNNNGAACNNNNNNCTC	1	3095
Ppsi	GAGTCNNNN!	3	889; 3096; 3528
Ppsi	!NNNNNGACTC	6	404; 1304; 1456; 3104; 4710; 5587
Ppu10I	A!TGCAT	3	3613; 3685; 6016
Ppu21I	YAC!GTR	5	340; 1506; 2547; 3161; 4349
PpuMI	RG!GWCCY	0	
Psci	A!CATGT	1	5963
PshAI	GACNN!NNGTC	2	1234; 1958
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2828; 3033
Psp03I	GGWC!C	4	1683; 2499; 4564; 5009
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	26	88; 281; 776; 824; 920; 935; 1064; 1173; 1352; 1397; 1847; 1904; 2096; 2412; 2423; 2482; 2492; 3579; 3634; 3651; 4430; 5009; 5112; 5802; 5815; 5936
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	1391
PspCI	CAC!GTG	1	1506
PspEI	G!GTNACC	0	
PspGI	!CCWGG	26	88; 281; 776; 824; 920; 935; 1064; 1173; 1352; 1397; 1847; 1904; 2096; 2412; 2423; 2482; 2492; 3579; 3634; 3651; 4430; 5009; 5112; 5802; 5815; 5936
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	25	467; 657; 717; 1108; 1535; 1566; 2061; 2102; 2294; 2362; 2411; 2682; 3200; 3221; 3233; 3424; 3585; 3657; 4046; 4081; 4929; 5008; 5053; 5896; 5935
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	4	125; 2010; 3775; 4774
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	4177
PspPI	G!GNCC	14	83; 276; 751; 994; 1086; 1680; 2496; 2583; 3152; 4561; 5006; 5052; 5110; 5143
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNNNN!	4	1866; 3598; 3670; 5176
PspPRI	!NNNNNNNNNNNNNNNNNNCTGRGG	5	846; 1274; 2463; 3511; 4706
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
Pssi	RGGNC!CY	1	5146
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	3	1268; 5146; 5554
PsuI	R!GATCY	12	585; 1141; 1315; 2680; 2689; 4216; 4462; 4854; 5213; 5225; 5311; 5322
PsyI	GACN!NNGTC	1	4163

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1861; 3543; 4151
RcaI	T!CATGA	2	3471; 5243
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	4560
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	3	1554; 1912; 2774
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 646; 1048; 2278; 2435; 2545; 4351
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 645; 1047; 2277; 2434; 2544; 4350
RseI	CAYNN!NNRTG	4	365; 634; 2407; 4482
RsrII	CG!GWCCG	1	4561
Rsr2I	CG!GWCCG	1	4561
SacI	GAGCT!C	1	1391
SacII	CCGC!GG	0	
SaI	G!TCGAC	0	
SapI	GCTCTCN!	1	1585
SapI	!NNNNGAAGAGC	2	4389; 4599
SaqAI	T!TAA	18	7; 620; 1301; 2003; 2746; 2807; 2928; 2949; 2960; 2972; 2983; 3000; 3098; 3369; 5188; 5202; 5207; 5259
SatI	GC!NGC	39	750; 801; 945; 1062; 1243; 1594; 1619; 2268; 2312; 2340; 2600; 2822; 3341; 3363; 3377; 3815; 3954; 4006; 4017; 4107; 4112; 4149; 4190; 4277; 4280; 4283; 4519; 4615; 4656; 4670; 4784; 5123; 5138; 5349; 5555; 5558; 5623; 5766; 5921
Sau96I	G!GNCC	14	83; 276; 751; 994; 1086; 1680; 2496; 2583; 3152; 4561; 5006; 5052; 5110; 5143
Sau3AI	!GATC	26	585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	3	890; 3097; 3529
SchI	!NNNNNGACTC	6	404; 1304; 1456; 3104; 4710; 5587
SciI	CTC!GAG	1	1321
ScrFI	CC!NGG	32	90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1512; 1513; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4049; 4209; 4432; 4822; 5011; 5114; 5586; 5804; 5817; 5938
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	5	1032; 3623; 3695; 3864; 5806
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	2	4200; 4685
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	22	658; 685; 718; 1295; 1391; 1511; 1643; 1711; 1874; 1913; 2064; 2105; 2365; 2490; 3236; 3991; 4084; 4158; 4348; 4410; 5120; 5653
SelI	!CGCG	15	58; 2931; 2967; 3343; 3363; 3387; 3418; 4109; 4410; 4848; 4932; 4995; 5064; 5337; 5918
SetI	ASST!	91	125; 137; 178; 261; 308; 342; 447; 552; 568; 617; 644; 740; 790; 811; 962; 1097; 1166; 1234; 1238; 1253; 1277; 1301; 1349; 1391; 1477; 1508; 1570; 1580; 1598; 1673; 1697; 1744; 1774; 1791; 1823; 1853; 1863; 1973; 1993; 2003; 2078; 2099; 2180; 2291; 2381; 2426; 2435; 2445; 2513; 2549; 2627; 2735; 2756; 2765; 2777; 2826; 2993; 3108; 3120; 3163; 3200; 3250; 3273; 3397; 3545; 3640; 3833; 3946; 4074; 4153; 4164; 4236; 4307; 4351; 4611; 4757; 4801; 5132; 5163; 5222; 5265; 5408; 5429; 5528; 5665; 5680; 5699; 5711; 5755; 5801; 5852

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SexAI	A!CCWGGT	2	2096; 3634
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	12	839; 1343; 1418; 2123; 2351; 2393; 2861; 3624; 3696; 4344; 4408; 4683
SfaNI	!NNNNNNNNNGATGC	9	357; 992; 1160; 1418; 1605; 4003; 4258; 4474; 5866
SfcI	C!TRYAG	6	1194; 1862; 2183; 3380; 5507; 5698
SfiI	GGCCNNNN!NGGCC	1	3820
SfoI	GGC!GCC	1	4046
Sfr274I	C!TCGAG	1	1319
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	1	4727
SgeI	CNNGNNNNNNNNN!	240	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 618; 642; 660; 690; 714; 732; 747; 789; 816; 837; 858; 871; 884; 912; 933; 948; 975; 1009; 1030; 1050; 1063; 1077; 1095; 1108; 1140; 1158; 1179; 1213; 1239; 1258; 1274; 1292; 1308; 1331; 1357; 1370; 1391; 1410; 1425; 1445; 1502; 1516; 1542; 1574; 1587; 1600; 1616; 1646; 1668; 1684; 1704; 1724; 1740; 1769; 1788; 1821; 1834; 1852; 1917; 1941; 1984; 2031; 2058; 2076; 2100; 2123; 2140; 2155; 2182; 2216; 2235; 2255; 2271; 2293; 2346; 2381; 2406; 2425; 2442; 2463; 2495; 2514; 2535; 2553; 2583; 2597; 2617; 2699; 2752; 2781; 2823; 2906; 2944; 2980; 3064; 3086; 3118; 3155; 3173; 3192; 3207; 3249; 3266; 3283; 3318; 3332; 3349; 3371; 3395; 3419; 3484; 3498; 3536; 3552; 3592; 3605; 3624; 3647; 3664; 3677; 3696; 3726; 3747; 3764; 3787; 3822; 3849; 3880; 3902; 3928; 3950; 3969; 3997; 4033; 4052; 4075; 4089; 4109; 4122; 4136; 4155; 4169; 4188; 4220; 4234; 4247; 4273; 4304; 4317; 4334; 4351; 4365; 4382; 4400; 4415; 4443; 4459; 4478; 4500; 4516; 4539; 4558; 4583; 4602; 4622; 4649; 4673; 4706; 4725; 4753; 4767; 4833; 4857; 4872; 4895; 4916; 4933; 4981; 5008; 5022; 5051; 5075; 5108; 5125; 5145; 5158; 5171; 5229; 5256; 5275; 5305; 5330; 5350; 5364; 5389; 5407; 5444; 5482; 5511; 5539; 5553; 5573; 5588; 5609; 5623; 5642; 5660; 5676; 5716; 5736; 5763; 5781; 5802; 5815; 5828; 5845; 5869; 5892; 5924; 5949; 5976; 5998
SgeI	!NNNNNNNNNNNNCNG	211	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 616; 634; 664; 688; 706; 730; 763; 790; 811; 832; 858; 886; 907; 949; 983; 1004; 1024; 1051; 1069; 1090; 1114; 1132; 1153; 1187; 1213; 1232; 1266; 1293; 1313; 1331; 1351; 1369; 1391; 1411; 1476; 1497; 1516; 1548; 1574; 1594; 1620; 1642; 1678; 1698; 1743; 1762; 1795; 1826; 1891; 1915; 1958; 2005; 2032; 2050; 2074; 2097; 2114; 2156; 2190; 2209; 2229; 2250; 2267; 2320; 2355; 2380; 2399; 2416; 2437; 2469; 2488; 2509; 2527; 2557; 2591; 2673; 2726; 2755; 2797; 2880; 2918; 2954; 3038; 3060; 3092; 3129; 3147; 3166; 3223; 3240; 3257; 3292; 3310; 3330; 3350; 3369; 3393; 3458; 3510; 3566; 3598; 3621; 3638; 3670; 3700; 3721; 3738; 3761; 3796; 3823; 3854; 3876; 3902; 3924; 3943; 3971; 4007; 4026; 4049; 4070; 4088; 4105; 4129; 4162; 4194; 4221; 4247; 4278; 4308; 4325; 4351; 4374; 4395; 4417; 4437; 4457; 4474; 4513; 4532; 4557; 4576; 4596; 4623; 4647; 4680; 4699; 4727; 4749; 4807; 4831; 4850; 4869; 4890; 4907; 4955; 4982; 5002; 5025; 5049; 5082; 5099; 5119; 5145; 5203; 5230; 5249; 5279; 5304; 5324; 5363; 5381; 5418; 5456; 5485; 5513; 5534; 5562; 5583; 5616; 5634; 5690; 5710; 5737; 5755; 5776; 5802; 5819; 5843; 5866; 5898; 5923; 5950; 5972; 6001
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; 3192; 4979; 5772
SimI	!GACCC	5	106; 2238; 4473; 5041; 5289
SinI	G!GWCC	4	1680; 2496; 4561; 5006
SlaI	C!TCGAG	1	1319
SmaI	CCC!GGG	1	1513
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	4	365; 634; 2407; 4482
SmlI	C!TYRAG	7	1165; 1319; 2605; 4436; 5318; 5595; 5857
SmoI	C!TYRAG	7	1165; 1319; 2605; 4436; 5318; 5595; 5857

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SmuI	CCCGCNNNN!	11	93; 119; 286; 1059; 1161; 2119; 3367; 3722; 3743; 4939; 5071
SmuI	!NNNNNNGCGGG	6	1096; 3298; 4168; 4705; 4843; 4990
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	2454; 3615; 3687; 4450
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	13	18; 1302; 1685; 2083; 2795; 2859; 2937; 2963; 2974; 3621; 3693; 3785; 5203
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	3	1030; 2482; 3866
SsiI	C!CGC	37	58; 86; 98; 112; 279; 507; 589; 914; 1052; 1154; 1572; 2007; 2112; 3360; 3363; 3377; 3467; 3715; 3727; 3736; 3748; 3758; 3769; 3815; 3954; 4017; 4519; 4564; 4630; 4656; 4781; 4784; 4932; 5064; 5371; 5515; 6011
SsiI	G!CGG	27	370; 403; 528; 595; 749; 1061; 1103; 3305; 3332; 3420; 3530; 4111; 4175; 4276; 4279; 4559; 4614; 4712; 4850; 4997; 5137; 5380; 5625; 5746; 5765; 5892; 5920
SspI	AAT!ATT	2	2953; 3506
SspDI	G!GCGCC	1	4044
SspD5I	GGTGANNNNNNNN!	8	376; 987; 2241; 2296; 2563; 2665; 5116; 5232
SspD5I	!NNNNNNNNNTCACC	7	875; 1025; 1760; 1880; 2186; 3161; 4222
SstI	GAGCT!C	1	1391
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	1	920
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	23	92; 118; 285; 842; 1058; 1160; 1424; 1518; 1641; 2118; 2592; 3244; 3366; 3721; 3742; 4055; 4458; 4597; 4668; 4938; 5070; 5300; 5738
Sth132I	!NNNNNNNNNCGGG	22	15; 407; 470; 891; 1095; 1481; 1504; 3245; 3297; 3398; 4125; 4167; 4200; 4704; 4813; 4842; 4989; 5093; 5124; 5577; 5621; 5829
Sth302II	CC!GG	20	1308; 1513; 1713; 2688; 3264; 3951; 4028; 4050; 4078; 4209; 4299; 4366; 4547; 4822; 4830; 4922; 5396; 5586; 5612; 5759
StrI	C!TCGAG	1	1319
StsI	GGATGNNNNNNNNNN!	5	2572; 3913; 4370; 4395; 4849
StsI	!NNNNNNNNNNNNNNNNNNCATCC	10	671; 759; 816; 971; 1326; 1395; 1869; 2100; 2328; 3717
StuI	AGG!CCT	3	1030; 2482; 3866
StyI	C!CWWGG	7	360; 2247; 2429; 3774; 3867; 4477; 4882
StyD4I	!CCNGG	32	88; 281; 776; 824; 920; 935; 1064; 1173; 1352; 1397; 1510; 1511; 1847; 1904; 2096; 2412; 2423; 2482; 2492; 3579; 3634; 3651; 4047; 4207; 4430; 4820; 5009; 5112; 5584; 5802; 5815; 5936
SwaI	ATTT!AAAT	0	
Taal	ACN!GT	17	76; 198; 269; 543; 581; 660; 1542; 2281; 2406; 3136; 4425; 4541; 4649; 4972; 5463; 5933; 6004
TaiI	ACGT!	21	125; 137; 178; 261; 342; 447; 962; 1238; 1349; 1508; 1791; 2291; 2549; 3108; 3120; 3163; 3273; 4164; 4351; 5132; 5265
TaqI	T!CGA	17	743; 770; 1238; 1320; 1973; 1979; 3194; 3885; 4158; 4314; 4338; 4374; 4536; 4727; 4772; 5027; 5865
TaqII	GACCGANNNNNNNNNN!	4	1697; 3065; 4082; 4750
TaqII	!NNNNNNNNNTCGGTC	1	4994
TaqII	CACCCANNNNNNNNNN!	3	733; 838; 1909
TaqII	!NNNNNNNNNTGGGTG	4	172; 2539; 3949; 4541
TasI	!AATT	13	18; 1302; 1685; 2083; 2795; 2859; 2937; 2963; 2974; 3621; 3693; 3785; 5203
TatI	W!GTACW	5	217; 297; 330; 381; 644
TauI	GCSG!C	17	752; 1064; 3365; 3379; 3817; 3956; 4019; 4114; 4279; 4282; 4521; 4617; 4658; 4786; 5140; 5768; 5923
TfiI	G!AWTC	8	731; 1208; 2635; 4530; 4664; 4774; 4811; 5989
THI	C!TCGAG	1	1319
TruII	T!TAA	18	7; 620; 1301; 2003; 2746; 2807; 2928; 2949; 2960; 2972; 2983; 3000; 3098; 3369; 5188; 5202; 5207; 5259
Tru9I	T!TAA	18	7; 620; 1301; 2003; 2746; 2807; 2928; 2949; 2960; 2972; 2983; 3000; 3098; 3369; 5188; 5202; 5207; 5259
TscAI	CASTGNN!	13	1262; 1488; 1566; 1711; 2043; 2373; 2409; 2545; 2891; 4174; 5284; 5555; 5568

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TseI	G!CWGC	22	800; 944; 1242; 1593; 1618; 2267; 2311; 2339; 2599; 2821; 3340; 4005; 4106; 4148; 4189; 4282; 4669; 5122; 5348; 5554; 5557; 5622
TsoI	TARCCANNNNNNNNNNN!	3	2032; 3017; 3364
TsoI	!NNNNNNNNNTGGYTA	3	769; 2822; 4574
Tsp45I	!GTSAC	7	882; 1435; 2236; 2284; 3334; 4165; 4471
Tsp509I	!AATT	13	18; 1302; 1685; 2083; 2795; 2859; 2937; 2963; 2974; 3621; 3693; 3785; 5203
TspDTI	ATGAANNNNNNNNNNN!	6	652; 1565; 2186; 2803; 4104; 4808
TspDTI	!NNNNNNNNNTTCAT	6	26; 801; 1917; 4522; 4978; 5185
TspEI	!AATT	13	18; 1302; 1685; 2083; 2795; 2859; 2937; 2963; 2974; 3621; 3693; 3785; 5203
TspGWI	ACGGANNNNNNNNNNN!	1	4920
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	1	1511
TspRI	CASTGNN!	13	1262; 1488; 1566; 1711; 2043; 2373; 2409; 2545; 2891; 4174; 5284; 5555; 5568
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	4163
Tth111II	CAARCANNNNNNNNNNN!	4	862; 1137; 1516; 5372
Tth111II	!NNNNNNNNNTGYTTG	5	1510; 2192; 4480; 5340; 5379
UnbI	!GGNCC	14	82; 275; 750; 993; 1085; 1679; 2495; 2582; 3151; 4560; 5005; 5051; 5109; 5142
Van91I	CCANNNN!NTGG	1	2352
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	3	681; 1707; 5649
VpaK11AI	!GGWCC	4	1679; 2495; 4560; 5005
VpaK11BI	G!GWCC	4	1680; 2496; 4561; 5006
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	2	2428; 2608
XapI	R!AATTY	5	1685; 2083; 2859; 2963; 2974
XbaI	T!CTAGA	1	2692
XceI	RCATG!Y	6	633; 2454; 3615; 3687; 4450; 5967
XcmI	CCANNNNN!NNNTGG	1	1744
XhoI	C!TCGAG	1	1319
XhoII	R!GATCY	12	585; 1141; 1315; 2680; 2689; 4216; 4462; 4854; 5213; 5225; 5311; 5322
XmaI	C!CCGGG	1	1511
XmaJI	C!CTAGG	2	3867; 4882
XmiI	GT!MKAC	3	1181; 1526; 1934
XmnI	GAANN!NNNTTC	1	1758
XspI	C!TAG	10	592; 785; 1280; 2693; 2894; 3312; 3868; 4883; 5217; 5470
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3617; 3689; 6020