

## pTagFP635-laminB1 vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	3	2798; 3263; 3468
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNNGCAGGTG	1	1530
AasI	GACNNNN!NNGTC	4	2788; 3551; 4507; 6296
AatI	AGG!CCT	2	1048; 4301
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	1199
AccII	CG!CG	30	60; 1380; 1394; 1428; 1437; 1463; 1528; 1553; 1565; 1618; 1620; 1625; 1627; 1646; 1652; 2028; 3368; 3404; 3780; 3800; 3824; 3855; 4546; 4847; 5285; 5369; 5432; 5501; 5774; 6355
AccIII	T!CCGGA	1	1324
Acc16I	TGC!GCA	2	1504; 4582
Acc36I	ACCTGCNNNN!	2	4748; 5198
Acc36I	!NNNNNNNNNGCAGGT	2	1530; 4367
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	7	465; 673; 733; 1741; 3633; 4479; 4514
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	3904; 5093
AccBSI	GAG!CGG	2	3740; 5147
AceIII	CAGCTCNNNNNNN!	2	1805; 3436
AceIII	!NNNNNNNNNNNGAGCTG	6	552; 619; 1444; 1594; 1657; 2128
AciI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 932; 1070; 1172; 1375; 1378; 1392; 1414; 1644; 2241; 2657; 2715; 3795; 3798; 3812; 3902; 4150; 4162; 4171; 4183; 4193; 4204; 4250; 4389; 4452; 4954; 4999; 5065; 5091; 5216; 5219; 5367; 5499; 5806; 5950; 6446
AciI	G!CGG	34	370; 403; 528; 767; 1079; 1121; 1380; 1400; 1437; 1483; 1565; 1687; 2392; 2598; 3740; 3767; 3855; 3965; 4546; 4610; 4711; 4714; 4994; 5049; 5147; 5285; 5432; 5572; 5815; 6060; 6181; 6200; 6327; 6355
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	13	1853; 1862; 2411; 2747; 3123; 3132; 4348; 4659; 4905; 5297; 5656; 5754; 5840
AcIWI	!NNNNNGATCC	7	580; 1154; 3110; 4724; 5268; 5655; 5752
AcoI	Y!GGCCR	7	1277; 1566; 1610; 4386; 4560; 4951; 4978
AcsI	R!AATY	5	2707; 2949; 3294; 3398; 3409
AcuI	CTGAAGNNNNNNNNNNNNNNN!	6	1129; 1870; 2842; 3026; 4626; 5058
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	5856
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	10	122; 175; 258; 444; 1196; 1742; 2052; 4480; 5182; 5261
AdeI	CACNNN!GTG	3	1269; 1813; 3596
AfaI	GT!AC	15	219; 244; 299; 332; 383; 540; 664; 814; 1066; 1489; 2071; 2579; 2583; 2982; 4786
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	29	49; 730; 843; 1009; 1075; 1384; 1449; 1482; 1515; 1959; 2123; 2466; 2752; 3069; 3492; 3818; 4210; 4461; 5005; 5286; 5318; 5450; 5485; 5535; 5567; 5920; 6199; 6365; 6383
AfII	C!TTAAG	0	
AfIII	A!CRYGT	2	3366; 6398
AgeI	A!CCGGT	1	600
AgsI	TTS!AA	11	696; 1146; 2317; 2517; 2721; 2946; 3891; 3935; 3945; 4358; 5934
AhdI	GACNNN!NNGTC	0	
AhII	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjnI	!CCWGG	20	88; 281; 794; 842; 938; 953; 1082; 1442; 1508; 2218; 2459; 4014; 4069; 4086; 4865; 5444; 5547; 6237; 6250; 6371
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	
AjuI	!NNNNNNCCAANNNNNNNTTC	1	2520
AjuI	CCAANNNNNNNTTCNNNNNNNNNN!	1	2552
AjuI	!NNNNNNNGAANNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	613
AlfI	GCANNNNNNTGCNNNNNNNNNN!	3	2129; 4054; 4126
AlfI	!NNNNNNNNNGCANNNNNNNTGC	3	2095; 4020; 4092
AloI	GAACNNNNNTCCNNNNNNNNNN!	2	1020; 3562
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	2	988; 3530
AluI	AG!CT	37	566; 633; 660; 806; 1113; 1342; 1348; 1458; 1467; 1536; 1575; 1608; 1659; 1671; 1701; 1755; 1795; 1885; 2076; 2142; 2271; 2421; 2439; 2520; 3034; 3098; 3259; 3426; 3683; 3978; 4266; 4586; 5044; 5841; 6098; 6144; 6234
AluBI	AG!CT	37	566; 633; 660; 806; 1113; 1342; 1348; 1458; 1467; 1536; 1575; 1608; 1659; 1671; 1701; 1755; 1795; 1885; 2076; 2142; 2271; 2421; 2439; 2520; 3034; 3098; 3259; 3426; 3683; 3978; 4266; 4586; 5044; 5841; 6098; 6144; 6234
AlwI	GGATCNNNN!	13	1853; 1862; 2411; 2747; 3123; 3132; 4348; 4659; 4905; 5297; 5656; 5754; 5840
AlwI	!NNNNNGATCC	7	580; 1154; 3110; 4724; 5268; 5655; 5752
Alw21I	GWGCW!C	7	703; 1344; 1469; 1577; 4593; 4783; 6088
Alw26I	GTCTCN!	2	434; 2528
Alw26I	!NNNNNGAGAC	9	1240; 1507; 1594; 1999; 2774; 3904; 4322; 5341; 5469
Alw44I	G!TGCAC	2	699; 6084
AlwNI	CAGNNN!CTG	4	1286; 2668; 5581; 5989
Ama87I	C!YCGRG	2	1337; 2555
Aor13HI	T!CCGGA	1	1324
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	4	1799; 4048; 4120; 5582
ApaLI	G!TGCAC	2	699; 6084
ApeKI	G!CWGC	29	818; 962; 1260; 1388; 1458; 1505; 1533; 1536; 1659; 1701; 1771; 1792; 1888; 2412; 2851; 3031; 3256; 3775; 4440; 4541; 4583; 4624; 4717; 5104; 5557; 5783; 5989; 5992; 6057
ApoI	R!AATY	5	2707; 2949; 3294; 3398; 3409
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	2	1517; 4995
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	4789; 5442; 6280
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	4879
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	794
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	7	1478; 1580; 2018; 2162; 2987; 3038; 4308
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	1	1686
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	2	3047; 3074
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	1	5050
ArsI	GACNNNNNTTYGNNNNNNNNNN!	0	
ArsI	!NNNNNCCRAANNNNNGTC	0	
ArsI	CRAANNNNNGTCNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	0	
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	32	586; 984; 1134; 1160; 1334; 1665; 1732; 1749; 1846; 1855; 2404; 2740; 2766; 3116; 3125; 3138; 4318; 4322; 4341; 4652; 4730; 4811; 4820; 4898; 5274; 5290; 5649; 5661; 5739; 5747; 5758; 5833
AsiGI	A!CCGGT	1	600
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4598
Asp700I	GAANN!NNTTC	2	2312; 2438
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	4302; 5317
AspEI	GACNNN!NNGTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AspLEI	GCG!C	38	597; 1396; 1430; 1463; 1505; 1528; 1530; 1553; 1565; 1593; 1620; 1627; 1629; 1652; 1654; 1744; 2030; 2082; 3746; 3754; 3780; 3802; 3811; 3824; 3855; 4474; 4482; 4546; 4583; 4849; 5109; 5285; 5371; 5774; 5883; 6057; 6157; 6224
AspS9I	G!GNCC	14	83; 276; 769; 1012; 1104; 1125; 1402; 1641; 3587; 4996; 5441; 5487; 5545; 5578
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	1783; 5162
AsuC2I	CC!SGG	5	1193; 4484; 4644; 5257; 6021
AsuHPI	GGTGANNNNNNNN!	6	376; 1005; 1554; 1825; 5551; 5667
AsuHPI	!NNNNNNNTCACC	4	894; 1569; 3597; 4658
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	1337; 2555
AvaII	G!GWCC	2	4996; 5441
AviII	TGC!GCA	2	1504; 4582
AvrII	C!CTAGG	2	4302; 5317
AxyI	CC!TNAGG	3	878; 3960; 5592
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	8	676; 703; 736; 1313; 2920; 4426; 4519; 6088
BalI	TGG!CCA	2	1279; 4562
BamHI	G!GATCC	1	3115
BanI	G!GYRCC	7	465; 673; 733; 1741; 3633; 4479; 4514
BanII	GRGY!C	7	1344; 1423; 1469; 1577; 3671; 4845; 5555
BanIII	AT!CGAT	1	4320
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	1170
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	1138
BasI	CCANNN!NTGG	0	
BauI	C!ACGAG	3	1264; 5198; 6225
BauI	C!TCGTG	3	1114; 2910; 5072
BbeI	GGCG!C	2	1745; 4483
Bbr7I	GAAGACNNNNNN!	3	925; 1158; 1226
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	3	920; 1153; 1221
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	4	2367; 4050; 4122; 4885
BbvI	GCAGCNNNNNNNN!	16	830; 1272; 1400; 1517; 1545; 1783; 1804; 1900; 2424; 3043; 3268; 4553; 4595; 5116; 5569; 6069
BbvI	!NNNNNNNNNNNGCTGC	13	949; 1445; 1517; 1646; 1688; 1872; 2838; 3762; 4427; 4611; 4704; 5770; 5976
Bbv12I	GWGCW!C	7	703; 1344; 1469; 1577; 4593; 4783; 6088
BbvCI	CC!TCAGC	1	2661
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	5	1011; 3610; 4174; 4700; 5202
BccI	!NNNNNGATGG	8	1347; 1377; 2226; 2382; 2695; 3578; 4358; 4786
BceAI	ACGGCNNNNNNNNNN!	7	831; 975; 1026; 1092; 1655; 4906; 5393
BceAI	!NNNNNNNNNNNNNGCCGT	4	1553; 3621; 4439; 5898
BceFI	ACGGCNNNNNNNNNN!	7	831; 975; 1026; 1092; 1655; 4906; 5393
BceFI	!NNNNNNNNNNNNNGCCGT	4	1554; 3622; 4440; 5899
BcgI	CGANNNNNNTGCNNNNNNNNNN!	1	1387
BcgI	!NNNNNNNNNNNGCANNNNNNTCG	1	1763
BcgI	GCANNNNNNTGCNNNNNNNNNN!	1	1797
BcgI	!NNNNNNNNNNCGANNNNNNTGC	1	1353
BciVI	GTATCCNNNNNN!	4	2562; 3909; 4699; 6200
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	2	2765; 3137
BcnI	CC!SGG	5	1193; 4484; 4644; 5257; 6021
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNN!	3	2756; 3160; 6333
BdaI	!NNNNNNNNNNTGANNNNNNTCA	3	2722; 3126; 6299

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BfaI	C!TAG	11	592; 1298; 2294; 2588; 3128; 3329; 3747; 4303; 5318; 5652; 5905
BfiI	ACTGGGNNNNN!	2	1315; 4429
BfiI	!NNNNCCCAGT	3	289; 1860; 4181
BfmI	C!TRYAG	8	1531; 1537; 1660; 1886; 2281; 3815; 5942; 6133
BfoI	RGCGC!Y	7	598; 1594; 1745; 3747; 3755; 4483; 6158
BfrI	C!TTAAG	0	
BfuI	GTATCCNNNNNN!	4	2562; 3909; 4699; 6200
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4748; 5198
BfuAI	!NNNNNNNNNGCAGGT	2	1530; 4367
BfuCI	!GATC	32	585; 983; 1133; 1159; 1333; 1664; 1731; 1748; 1845; 1854; 2403; 2739; 2765; 3115; 3124; 3137; 4317; 4321; 4340; 4651; 4729; 4810; 4819; 4897; 5273; 5289; 5648; 5660; 5738; 5746; 5757; 5832
BglI	GCCNNNN!NGGC	6	90; 212; 283; 1088; 1397; 4255
BglII	A!GATCT	1	1333
BisI	GC!NGC	54	768; 819; 963; 1080; 1261; 1375; 1378; 1389; 1392; 1401; 1414; 1438; 1459; 1506; 1534; 1537; 1566; 1660; 1702; 1772; 1793; 1889; 2241; 2413; 2852; 3032; 3257; 3776; 3798; 3812; 4250; 4389; 4441; 4452; 4542; 4547; 4584; 4625; 4712; 4715; 4718; 4954; 5050; 5091; 5105; 5219; 5558; 5573; 5784; 5990; 5993; 6058; 6201; 6356
BlnI	C!CTAGG	2	4302; 5317
BlpI	GC!TNAGC	1	1417
BlsI	GCN!GC	54	769; 820; 964; 1081; 1262; 1376; 1379; 1390; 1393; 1402; 1415; 1439; 1460; 1507; 1535; 1538; 1567; 1661; 1703; 1773; 1794; 1890; 2242; 2414; 2853; 3033; 3258; 3777; 3799; 3813; 4251; 4390; 4442; 4453; 4543; 4548; 4585; 4626; 4713; 4716; 4719; 4955; 5051; 5092; 5106; 5220; 5559; 5574; 5785; 5991; 5994; 6059; 6202; 6357
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	4996; 5441
Bme1390I	CC!NGG	25	90; 283; 796; 844; 940; 955; 1084; 1193; 1444; 1510; 2220; 2461; 4016; 4071; 4088; 4484; 4644; 4867; 5257; 5446; 5549; 6021; 6239; 6252; 6373
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	1337; 2555
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	14	84; 277; 770; 1013; 1105; 1126; 1403; 1642; 3588; 4997; 5442; 5488; 5546; 5579
BmiI	GGN!NCC	22	467; 675; 735; 1126; 1404; 1441; 1743; 3075; 3117; 3635; 3656; 3668; 3859; 4020; 4092; 4481; 4516; 5364; 5443; 5488; 6331; 6370
BmrI	ACTGGGNNNNN!	2	1315; 4429
BmrI	!NNNNCCCAGT	3	289; 1860; 4181
BmrFI	CC!NGG	25	90; 283; 796; 844; 940; 955; 1084; 1193; 1444; 1510; 2220; 2461; 4016; 4071; 4088; 4484; 4644; 4867; 5257; 5446; 5549; 6021; 6239; 6252; 6373
BmsI	GCATCNNNNN!	11	857; 2569; 2654; 2690; 3094; 3296; 4059; 4131; 4779; 4843; 5118
BmsI	!NNNNNNNNNGATGC	10	357; 1010; 1049; 1178; 1779; 2103; 4438; 4693; 4909; 6301
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	1315; 4429
BmuI	!NNNNCCCAGT	3	289; 1860; 4181
BoxI	GACNN!NNGTC	1	1252
BpiI	GAAGACNN!	3	920; 1153; 1221
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	4269; 5168
BpI	!NNNNNNNNNGAGNNNNNNCTC	2	4237; 5136
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	4	1531; 2164; 3056; 5320
BpmI	!NNNNNNNNNNNNNNNCTCCAG	3	937; 1426; 5263
Bpu10I	CC!TNAGC	2	1881; 2661
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	1783; 5162
Bpu1102I	GC!TNAGC	1	1417

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BpuAI	GAAGACNN!	3	920; 1153; 1221
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	2188; 5774; 6313
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	7	1168; 1328; 1570; 2550; 2793; 4856; 6015
BpuMI	CC!SGG	5	1193; 4484; 4644; 5257; 6021
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	4	1240; 1594; 1999; 5469
Bsa29I	AT!CGAT	1	4320
BsaAI	YAC!GTR	4	340; 2581; 3596; 4784
BsaBI	GATNN!NNATC	2	3142; 4339
BsaHI	GR!CGYC	10	122; 175; 258; 444; 1196; 1742; 2052; 4480; 5182; 5261
BsaJI	C!CNNGG	22	360; 707; 842; 843; 938; 1378; 2219; 2459; 4014; 4086; 4209; 4244; 4253; 4302; 4643; 4912; 5317; 5444; 5445; 5547; 5548; 6238
BsaMI	GAATGCN!	2	2178; 3231
BsaMI	G!CATTC	1	3324
BsaWI	W!CCGGW	7	600; 1324; 3121; 4511; 5355; 6045; 6192
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	3560
BsaXI	!NNNNNNNGGAGNNNNNNGT	2	2951; 3029
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	2	2981; 3059
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	3530
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNGTGTTG	2	3481; 5388
Bsc4I	CCNNNNN!NNGG	29	49; 730; 843; 1009; 1075; 1384; 1449; 1482; 1515; 1959; 2123; 2466; 2752; 3069; 3492; 3818; 4210; 4461; 5005; 5286; 5318; 5450; 5485; 5535; 5567; 5920; 6199; 6365; 6383
BscAI	GCATCNNNN!	11	856; 2568; 2653; 2689; 3093; 3295; 4058; 4130; 4778; 4842; 5117
BscAI	!NNNNNNGATGC	10	360; 1013; 1052; 1181; 1782; 2106; 4441; 4696; 4912; 6304
Bse1I	ACTGGN!	7	1223; 1310; 2673; 2925; 4424; 4625; 5871
Bse1I	C!CAGT	6	295; 1866; 3509; 4187; 5983; 5996
Bse8I	GATNN!NNATC	2	3142; 4339
Bse21I	CC!TNAGG	3	878; 3960; 5592
Bse118I	R!CCGGY	7	600; 1475; 1579; 3697; 4799; 4980; 5263
BseAI	T!CCGGA	1	1324
BseBI	CC!WGG	20	90; 283; 796; 844; 940; 955; 1084; 1444; 1510; 2220; 2461; 4016; 4071; 4088; 4867; 5446; 5549; 6239; 6252; 6373
BseCI	AT!CGAT	1	4320
BseDI	C!CNNGG	22	360; 707; 842; 843; 938; 1378; 2219; 2459; 4014; 4086; 4209; 4244; 4253; 4302; 4643; 4912; 5317; 5444; 5445; 5547; 5548; 6238
Bse3DI	GCAATGNN!	1	4713
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	1388; 4340; 4797; 4822; 5276
BseGI	!CATCC	8	703; 791; 848; 1003; 2263; 2560; 3085; 4166
BseJI	GATNN!NNATC	2	3142; 4339
BseLI	CCNNNNN!NNGG	29	49; 730; 843; 1009; 1075; 1384; 1449; 1482; 1515; 1959; 2123; 2466; 2752; 3069; 3492; 3818; 4210; 4461; 5005; 5286; 5318; 5450; 5485; 5535; 5567; 5920; 6199; 6365; 6383
BseMI	GCAATGNN!	1	4713
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	4	1344; 2675; 2968; 5606
BseMII	!NNNNNNNNCTGAG	8	869; 1408; 1949; 3951; 4253; 5134; 5706; 6115
BseNI	ACTGGN!	7	1223; 1310; 2673; 2925; 4424; 4625; 5871
BseNI	C!CAGT	6	295; 1866; 3509; 4187; 5983; 5996
BsePI	G!CGCGC	3	1526; 1625; 1650
BseRI	GAGGAGNNNNNNNNNN!	7	1468; 1570; 2008; 2152; 2977; 3028; 4298
BseRI	!NNNNNNNNCTCCTC	1	1696
BseSI	GKGCMI!C	8	676; 703; 736; 1313; 2920; 4426; 4519; 6088
BseXI	GCAGCNNNNNNNN!	16	830; 1272; 1400; 1517; 1545; 1783; 1804; 1900; 2424; 3043; 3268; 4553; 4595; 5116; 5569; 6069
BseXI	!NNNNNNNNNNNNGCTGC	13	949; 1445; 1517; 1646; 1688; 1872; 2838; 3762; 4427; 4611; 4704; 5770; 5976
BseX3I	C!GGCCG	2	1566; 4386
BseYI	C!CCAGC	4	2267; 4023; 4095; 6094

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BseI	G!CTGGG	4	1040; 1671; 2756; 4984
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNNCTGCAC	1	1790
Bsh1236I	CG!CG	30	60; 1380; 1394; 1428; 1437; 1463; 1528; 1553; 1565; 1618; 1620; 1625; 1627; 1646; 1652; 2028; 3368; 3404; 3780; 3800; 3824; 3855; 4546; 4847; 5285; 5369; 5432; 5501; 5774; 6355
Bsh1285I	CGRY!CG	4	605; 1569; 4389; 6064
BshFI	GG!CC	33	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1403; 1568; 1583; 1612; 1642; 2831; 3446; 3588; 4243; 4249; 4258; 4301; 4388; 4562; 4953; 4980; 5489; 5546; 5579; 5924; 6358; 6376; 6387
BshNI	G!GYRCC	7	465; 673; 733; 1741; 3633; 4479; 4514
BshTI	A!CCGGT	1	600
BshVI	AT!CGAT	1	4320
BsiEI	CGRY!CG	4	605; 1569; 4389; 6064
BsiHKAI	GWGCW!C	7	703; 1344; 1469; 1577; 4593; 4783; 6088
BsiHKCI	C!YCGRG	2	1337; 2555
BsiSI	C!CGG	22	601; 1193; 1325; 1476; 1580; 3122; 3698; 4385; 4462; 4484; 4512; 4643; 4733; 4800; 4981; 5256; 5264; 5356; 5830; 6020; 6046; 6193
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	29	49; 730; 843; 1009; 1075; 1384; 1449; 1482; 1515; 1959; 2123; 2466; 2752; 3069; 3492; 3818; 4210; 4461; 5005; 5286; 5318; 5450; 5485; 5535; 5567; 5920; 6199; 6365; 6383
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4631; 5163; 5272
BsIFI	!NNNNNNNNNNNNNNNGTCCC	4	3996; 4068; 4132; 5427
BsmI	GAATGCN!	2	2178; 3231
BsmI	G!CATTC	1	3324
BsmAI	GTCTCN!	2	434; 2528
BsmAI	!NNNNNGAGAC	9	1240; 1507; 1594; 1999; 2774; 3904; 4322; 5341; 5469
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	1	1507
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4631; 5163; 5272
BsmFI	!NNNNNNNNNNNNNNNGTCCC	4	3996; 4068; 4132; 5427
BsnI	GG!CC	33	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1403; 1568; 1583; 1612; 1642; 2831; 3446; 3588; 4243; 4249; 4258; 4301; 4388; 4562; 4953; 4980; 5489; 5546; 5579; 5924; 6358; 6376; 6387
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	4	1240; 1594; 1999; 5469
BsoBI	C!YCGRG	2	1337; 2555
Bsp13I	T!CCGGA	1	1324
Bsp19I	C!CATGG	3	360; 4209; 4912
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	3	289; 2910; 5283
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	5704; 5882
Bsp24I	CCANNNNNNGTCTNNNNNNNNNN!	2	5736; 5914
Bsp24I	!NNNNNNNGACNNNNNNNTGG	3	257; 2878; 5251
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	1783; 5162
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	32	585; 983; 1133; 1159; 1333; 1664; 1731; 1748; 1845; 1854; 2403; 2739; 2765; 3115; 3124; 3137; 4317; 4321; 4340; 4651; 4729; 4810; 4819; 4897; 5273; 5289; 5648; 5660; 5738; 5746; 5757; 5832
Bsp1286I	GDGCH!C	17	676; 703; 736; 1313; 1344; 1423; 1469; 1577; 2920; 3671; 4426; 4519; 4593; 4783; 4845; 5555; 6088
Bsp1407I	T!GTACA	2	662; 1487
Bsp1720I	GC!TNAGC	1	1417
BspACI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 932; 1070; 1172; 1375; 1378; 1392; 1414; 1644; 2241; 2657; 2715; 3795; 3798; 3812; 3902; 4150; 4162; 4171; 4183; 4193; 4204; 4250; 4389; 4452; 4954; 4999; 5065; 5091; 5216; 5219; 5367; 5499; 5806; 5950; 6446
BspACI	G!CGG	34	370; 403; 528; 767; 1079; 1121; 1380; 1400; 1437; 1483; 1565; 1687; 2392; 2598; 3740; 3767; 3855; 3965; 4546; 4610; 4711; 4714; 4994; 5049; 5147; 5285; 5432; 5572; 5815; 6060; 6181; 6200; 6327; 6355
BspCNI	CTCAGNNNNNNNN!	4	1343; 2674; 2967; 5605

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspCNI	!NNNNNNNCTGAG	8	870; 1409; 1950; 3952; 4254; 5135; 5707; 6116
BspDI	AT!CGAT	1	4320
BspD6I	GACTCNNNN!	5	418; 1336; 3553; 5159; 6036
BspD6I	!NNNNNNGAGTC	4	892; 2283; 3516; 3948
BspEI	T!CCGGA	1	1324
BspFNI	CG!CG	30	60; 1380; 1394; 1428; 1437; 1463; 1528; 1553; 1565; 1618; 1620; 1625; 1627; 1646; 1652; 2028; 3368; 3404; 3780; 3800; 3824; 3855; 4546; 4847; 5285; 5369; 5432; 5501; 5774; 6355
BspHI	T!CATGA	3	2091; 3906; 5678
BspLI	GGN!NCC	22	467; 675; 735; 1126; 1404; 1441; 1743; 3075; 3117; 3635; 3656; 3668; 3859; 4020; 4092; 4481; 4516; 5364; 5443; 5488; 6331; 6370
BspMI	ACCTGCNNNN!	2	4748; 5198
BspMI	!NNNNNNNNGCAGGT	2	1530; 4367
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	13	1853; 1862; 2411; 2747; 3123; 3132; 4348; 4659; 4905; 5297; 5656; 5754; 5840
BspPI	!NNNNNGATCC	7	580; 1154; 3110; 4724; 5268; 5655; 5752
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	3	623; 4824; 5034
BspTI	C!TTAAG	0	
BspT104I	TT!CGAA	2	1783; 5162
BspT107I	G!GYRCC	7	465; 673; 733; 1741; 3633; 4479; 4514
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	4	1240; 1594; 1999; 5469
BsrI	ACTGGN!	7	1223; 1310; 2673; 2925; 4424; 4625; 5871
BsrI	C!CAGT	6	295; 1866; 3509; 4187; 5983; 5996
BsrBI	CCG!CTC	2	3904; 5093
BsrBI	GAG!CGG	2	3740; 5147
BsrDI	GCAATGNN!	1	4713
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	600; 1475; 1579; 3697; 4799; 4980; 5263
BsrGI	T!GTACA	2	662; 1487
BsrSI	ACTGGN!	7	1223; 1310; 2673; 2925; 4424; 4625; 5871
BsrSI	C!CAGT	6	295; 1866; 3509; 4187; 5983; 5996
BssAI	R!CCGGY	7	600; 1475; 1579; 3697; 4799; 4980; 5263
BssECI	C!CNNGG	22	360; 707; 842; 843; 938; 1378; 2219; 2459; 4014; 4086; 4209; 4244; 4253; 4302; 4643; 4912; 5317; 5444; 5445; 5547; 5548; 6238
BssHII	G!CGCGC	3	1526; 1625; 1650
BssKI	!CCNGG	25	88; 281; 794; 842; 938; 953; 1082; 1191; 1442; 1508; 2218; 2459; 4014; 4069; 4086; 4482; 4642; 4865; 5255; 5444; 5547; 6019; 6237; 6250; 6371
BssMI	!GATC	32	585; 983; 1133; 1159; 1333; 1664; 1731; 1748; 1845; 1854; 2403; 2739; 2765; 3115; 3124; 3137; 4317; 4321; 4340; 4651; 4729; 4810; 4819; 4897; 5273; 5289; 5648; 5660; 5738; 5746; 5757; 5832
BssNI	GR!CGYC	10	122; 175; 258; 444; 1196; 1742; 2052; 4480; 5182; 5261
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	1264; 5198; 6225
BssSI	C!TCGTG	3	1114; 2910; 5072
BssTII	C!CWWGG	5	360; 4209; 4302; 4912; 5317
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	8	623; 1985; 2501; 2596; 3005; 3947; 4824; 5034
Bst98I	C!TTAAG	0	
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	10	122; 175; 258; 444; 1196; 1742; 2052; 4480; 5182; 5261
BstAFI	C!TTAAG	0	
BstAPI	GCANNNN!NTGC	4	1798; 4047; 4119; 5581
BstAUI	T!GTACA	2	662; 1487
BstBI	TT!CGAA	2	1783; 5162
Bst2BI	C!ACGAG	3	1264; 5198; 6225
Bst2BI	C!TCGTG	3	1114; 2910; 5072
BstBAI	YAC!GTR	4	340; 2581; 3596; 4784
Bst4CI	ACN!GT	21	76; 198; 269; 543; 581; 678; 1901; 2183; 2208; 2215; 2550; 2838; 2985; 3571; 4860; 4976; 5084; 5407; 5898; 6368; 6439

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstC8I	GCN!NGC	44	86; 279; 593; 721; 925; 1398; 1465; 1481; 1528; 1610; 1627; 1644; 1648; 1652; 2078; 2084; 2336; 2365; 2829; 2874; 3699; 3742; 3756; 4029; 4048; 4101; 4120; 4374; 4560; 4779; 4845; 4851; 4879; 4883; 4928; 4982; 5265; 5452; 5499; 5555; 5577; 5788; 6348; 6385
BstDEI	C!TNAG	17	620; 878; 1175; 1330; 1417; 1718; 1881; 1958; 2493; 2661; 2954; 3960; 4262; 5143; 5592; 5715; 6124
BstDSI	C!CRYGG	4	360; 1378; 4209; 4912
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	1	1957
BstF5I	GGATGNN!	5	1388; 4340; 4797; 4822; 5276
BstF5I	!CATCC	8	703; 791; 848; 1003; 2263; 2560; 3085; 4166
BstFNI	CG!CG	30	60; 1380; 1394; 1428; 1437; 1463; 1528; 1553; 1565; 1618; 1620; 1625; 1627; 1646; 1652; 2028; 3368; 3404; 3780; 3800; 3824; 3855; 4546; 4847; 5285; 5369; 5432; 5501; 5774; 6355
BstH2I	RGCGC!Y	7	598; 1594; 1745; 3747; 3755; 4483; 6158
BstHHI	GCG!C	38	597; 1396; 1430; 1463; 1505; 1528; 1530; 1553; 1565; 1593; 1620; 1627; 1629; 1652; 1654; 1744; 2030; 2082; 3746; 3754; 3780; 3802; 3811; 3824; 3855; 4474; 4482; 4546; 4583; 4849; 5109; 5285; 5371; 5774; 5883; 6057; 6157; 6224
BstKTI	GAT!C	32	588; 986; 1136; 1162; 1336; 1667; 1734; 1751; 1848; 1857; 2406; 2742; 2768; 3118; 3127; 3140; 4320; 4324; 4343; 4654; 4732; 4813; 4822; 4900; 5276; 5292; 5651; 5663; 5741; 5749; 5760; 5835
BstMAI	GTCTCN!	2	434; 2528
BstMAI	!NNNNNGAGAC	9	1240; 1507; 1594; 1999; 2774; 3904; 4322; 5341; 5469
BstMBI	!GATC	32	585; 983; 1133; 1159; 1333; 1664; 1731; 1748; 1845; 1854; 2403; 2739; 2765; 3115; 3124; 3137; 4317; 4321; 4340; 4651; 4729; 4810; 4819; 4897; 5273; 5289; 5648; 5660; 5738; 5746; 5757; 5832
BstMCI	CGRY!CG	4	605; 1569; 4389; 6064
BstMWI	GCNNNNN!NNGC	40	90; 212; 244; 283; 376; 400; 657; 1088; 1354; 1397; 1427; 1464; 1536; 1624; 1656; 1668; 1798; 1882; 2025; 2418; 2857; 3707; 3737; 3764; 3806; 4047; 4119; 4170; 4249; 4471; 4555; 4578; 4717; 4840; 4923; 5190; 5377; 5581; 5780; 6352
BstNI	CC!WGG	20	90; 283; 796; 844; 940; 955; 1084; 1444; 1510; 2220; 2461; 4016; 4071; 4088; 4867; 5446; 5549; 6239; 6252; 6373
BstNSI	RCATG!Y	8	651; 1986; 2303; 2367; 4050; 4122; 4885; 6402
BstOI	CC!WGG	20	90; 283; 796; 844; 940; 955; 1084; 1444; 1510; 2220; 2461; 4016; 4071; 4088; 4867; 5446; 5549; 6239; 6252; 6373
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	1252
BstSCI	!CCNGG	25	88; 281; 794; 842; 938; 953; 1082; 1191; 1442; 1508; 2218; 2459; 4014; 4069; 4086; 4482; 4642; 4865; 5255; 5444; 5547; 6019; 6237; 6250; 6371
BstSFI	C!TRYAG	8	1531; 1537; 1660; 1886; 2281; 3815; 5942; 6133
BstSLI	GKGC!C	8	676; 703; 736; 1313; 2920; 4426; 4519; 6088
BstSNI	TAC!GTA	2	340; 2581
BstUI	CG!CG	30	60; 1380; 1394; 1428; 1437; 1463; 1528; 1553; 1565; 1618; 1620; 1625; 1627; 1646; 1652; 2028; 3368; 3404; 3780; 3800; 3824; 3855; 4546; 4847; 5285; 5369; 5432; 5501; 5774; 6355
Bst2UI	CC!WGG	20	90; 283; 796; 844; 940; 955; 1084; 1444; 1510; 2220; 2461; 4016; 4071; 4088; 4867; 5446; 5549; 6239; 6252; 6373
BstV1I	GCAGCNNNNNNN!	16	830; 1272; 1400; 1517; 1545; 1783; 1804; 1900; 2424; 3043; 3268; 4553; 4595; 5116; 5569; 6069
BstV1I	!NNNNNNNNNNNGCTGC	13	949; 1445; 1517; 1646; 1688; 1872; 2838; 3762; 4427; 4611; 4704; 5770; 5976
BstV2I	GAAGACNN!	3	920; 1153; 1221
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 1159; 1333; 1845; 3115; 3124; 4651; 4897; 5289; 5648; 5660; 5746; 5757
BstYI	R!GATCY	13	585; 1159; 1333; 1845; 3115; 3124; 4651; 4897; 5289; 5648; 5660; 5746; 5757
BstZI	C!GGCCG	2	1566; 4386
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	4	2562; 3909; 4699; 6200
BsuI	!NNNNNGGATAC	0	



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bsu15I	AT!CGAT	1	4320
Bsu36I	CC!TNAGG	3	878; 3960; 5592
BsuRI	GG!CC	33	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1403; 1568; 1583; 1612; 1642; 2831; 3446; 3588; 4243; 4249; 4258; 4301; 4388; 4562; 4953; 4980; 5489; 5546; 5579; 5924; 6358; 6376; 6387
BsuTUI	AT!CGAT	1	4320
BtgI	C!CRYGG	4	360; 1378; 4209; 4912
BtgZI	GCGATGNNNNNNNNNN!	2	3597; 4932
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 4751; 5095
BthCI	GCNG!C	54	770; 821; 965; 1082; 1263; 1377; 1380; 1391; 1394; 1403; 1416; 1440; 1461; 1508; 1536; 1539; 1568; 1662; 1704; 1774; 1795; 1891; 2243; 2415; 2854; 3034; 3259; 3778; 3800; 3814; 4252; 4391; 4443; 4454; 4544; 4549; 4586; 4627; 4714; 4717; 4720; 4956; 5052; 5093; 5107; 5221; 5560; 5575; 5786; 5992; 5995; 6060; 6203; 6358
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	3319
BtsCI	GGATGNN!	5	1388; 4340; 4797; 4822; 5276
BtsCI	!CATCC	8	703; 791; 848; 1003; 2263; 2560; 3085; 4166
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4748; 5198
BveI	!NNNNNNNNNGCAGGT	2	1530; 4367
Cac8I	GCN!NGC	44	86; 279; 593; 721; 925; 1398; 1465; 1481; 1528; 1610; 1627; 1644; 1648; 1652; 2078; 2084; 2336; 2365; 2829; 2874; 3699; 3742; 3756; 4029; 4048; 4101; 4120; 4374; 4560; 4779; 4845; 4851; 4879; 4883; 4928; 4982; 5265; 5452; 5499; 5555; 5577; 5788; 6348; 6385
CaiI	CAGNNN!CTG	4	1286; 2668; 5581; 5989
CciI	T!CATGA	3	2091; 3906; 5678
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	7	352; 1494; 2685; 4769; 4774; 4972; 5113
CdiI	C!GATG	3	1352; 3583; 4918
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	6352
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 4141; 4183
CelII	GC!TNAGC	1	1417
CfoI	GCG!C	38	597; 1396; 1430; 1463; 1505; 1528; 1530; 1553; 1565; 1593; 1620; 1627; 1629; 1652; 1654; 1744; 2030; 2082; 3746; 3754; 3780; 3802; 3811; 3824; 3855; 4474; 4482; 4546; 4583; 4849; 5109; 5285; 5371; 5774; 5883; 6057; 6157; 6224
CfrI	Y!GGCCR	7	1277; 1566; 1610; 4386; 4560; 4951; 4978
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	7	600; 1475; 1579; 3697; 4799; 4980; 5263
Cfr13I	G!GNCC	14	83; 276; 769; 1012; 1104; 1125; 1402; 1641; 3587; 4996; 5441; 5487; 5545; 5578
Cfr42I	CCGC!GG	1	1381
ChaI	GATC!	32	589; 987; 1137; 1163; 1337; 1668; 1735; 1752; 1849; 1858; 2407; 2743; 2769; 3119; 3128; 3141; 4321; 4325; 4344; 4655; 4733; 4814; 4823; 4901; 5277; 5293; 5652; 5664; 5742; 5750; 5761; 5836
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	6	715; 2929; 4297; 5737; 5837; 5915
CjeI	!NNNNNNNNNACNNNNNNNTGG	9	64; 257; 1794; 2878; 3964; 4059; 5251; 5801; 6356
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNNNN!	9	98; 291; 1828; 2912; 3998; 4093; 5285; 5835; 6390
CjeI	!NNNNNNNNCCANNNNNNGT	6	681; 2895; 4263; 5703; 5803; 5881
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNNNN!	3	2906; 5737; 5915
CjePI	!NNNNNNNNGANNNNNNNNTGG	7	257; 740; 1085; 2288; 2878; 5251; 5850
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNNNN!	7	290; 773; 1118; 2321; 2911; 5284; 5883
CjePI	!NNNNNNNNCCANNNNNNNNTC	3	2873; 5704; 5882
Clai	AT!CGAT	1	4320
CpoI	CG!GWCCG	1	4996
CseI	GACGCNNNNN!	4	526; 1624; 5190; 5269
CseI	!NNNNNNNNNGCGTC	5	1185; 2041; 3813; 5708; 6286
CsiI	A!CCWGGT	1	4069
Cspi	CG!GWCCG	1	4996

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Csp6I	G!TAC	15	218; 243; 298; 331; 382; 539; 663; 813; 1065; 1488; 2070; 2578; 2582; 2981; 4785
Csp45I	TT!CGAA	2	1783; 5162
CspAI	A!CCGGT	1	600
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	6	665; 1256; 1475; 2159; 3760; 5369
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	1	1859
CviAII	C!ATG	31	301; 361; 648; 654; 666; 744; 810; 890; 1101; 1983; 2020; 2092; 2110; 2158; 2244; 2300; 2364; 2466; 3907; 4047; 4119; 4210; 4351; 4696; 4882; 4913; 4939; 5295; 5679; 6399; 6450
CviJI	RG!CY	136	42; 84; 93; 277; 566; 633; 660; 723; 770; 799; 806; 884; 950; 962; 1013; 1040; 1048; 1082; 1105; 1113; 1127; 1237; 1273; 1279; 1342; 1348; 1391; 1403; 1421; 1440; 1458; 1467; 1479; 1508; 1536; 1568; 1575; 1583; 1608; 1612; 1642; 1659; 1671; 1701; 1755; 1795; 1876; 1885; 1891; 1952; 2076; 2086; 2127; 2142; 2240; 2258; 2271; 2421; 2439; 2458; 2520; 2531; 2665; 2756; 2831; 2851; 2872; 2876; 3034; 3098; 3149; 3259; 3426; 3446; 3588; 3669; 3683; 3697; 3978; 4019; 4091; 4214; 4243; 4249; 4258; 4266; 4289; 4301; 4307; 4388; 4405; 4413; 4440; 4465; 4549; 4558; 4562; 4586; 4624; 4700; 4717; 4736; 4799; 4843; 4853; 4870; 4953; 4980; 4984; 5021; 5044; 5060; 5240; 5267; 5328; 5450; 5489; 5546; 5553; 5560; 5579; 5590; 5841; 5870; 5913; 5924; 5989; 6068; 6093; 6098; 6144; 6234; 6332; 6358; 6376; 6387
CviKI-1	RG!CY	136	42; 84; 93; 277; 566; 633; 660; 723; 770; 799; 806; 884; 950; 962; 1013; 1040; 1048; 1082; 1105; 1113; 1127; 1237; 1273; 1279; 1342; 1348; 1391; 1403; 1421; 1440; 1458; 1467; 1479; 1508; 1536; 1568; 1575; 1583; 1608; 1612; 1642; 1659; 1671; 1701; 1755; 1795; 1876; 1885; 1891; 1952; 2076; 2086; 2127; 2142; 2240; 2258; 2271; 2421; 2439; 2458; 2520; 2531; 2665; 2756; 2831; 2851; 2872; 2876; 3034; 3098; 3149; 3259; 3426; 3446; 3588; 3669; 3683; 3697; 3978; 4019; 4091; 4214; 4243; 4249; 4258; 4266; 4289; 4301; 4307; 4388; 4405; 4413; 4440; 4465; 4549; 4558; 4562; 4586; 4624; 4700; 4717; 4736; 4799; 4843; 4853; 4870; 4953; 4980; 4984; 5021; 5044; 5060; 5240; 5267; 5328; 5450; 5489; 5546; 5553; 5560; 5579; 5590; 5841; 5870; 5913; 5924; 5989; 6068; 6093; 6098; 6144; 6234; 6332; 6358; 6376; 6387
CviQI	G!TAC	15	218; 243; 298; 331; 382; 539; 663; 813; 1065; 1488; 2070; 2578; 2582; 2981; 4785
DdeI	C!TNAG	17	620; 878; 1175; 1330; 1417; 1718; 1881; 1958; 2493; 2661; 2954; 3960; 4262; 5143; 5592; 5715; 6124
DinI	GGC!GCC	2	1743; 4481
DpnI	GA!TC	32	587; 985; 1135; 1161; 1335; 1666; 1733; 1750; 1847; 1856; 2405; 2741; 2767; 3117; 3126; 3139; 4319; 4323; 4342; 4653; 4731; 4812; 4821; 4899; 5275; 5291; 5650; 5662; 5740; 5748; 5759; 5834
DpnII	!GATC	32	585; 983; 1133; 1159; 1333; 1664; 1731; 1748; 1845; 1854; 2403; 2739; 2765; 3115; 3124; 3137; 4317; 4321; 4340; 4651; 4729; 4810; 4819; 4897; 5273; 5289; 5648; 5660; 5738; 5746; 5757; 5832
DraI	TTT!AAA	4	2991; 3182; 5624; 5643
DraII	RG!GNCCY	1	5578
DraIII	CACNNN!GTG	3	1269; 1813; 3596
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	2	266; 5960
DraRI	!NNNNNNNNNNNNNNNNNGTNCTTG	0	
DrdI	GACNNN!NNGTC	4	2788; 3551; 4507; 6296
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	2	476; 2551
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	4	2788; 3551; 4507; 6296
EaeI	Y!GGCCR	7	1277; 1566; 1610; 4386; 4560; 4951; 4978
EagI	C!GGCCG	2	1566; 4386
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	8	623; 1985; 2501; 2596; 3005; 3947; 4824; 5034
Eam1105I	GACNNN!NNGTC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	8	623; 1985; 2501; 2596; 3005; 3947; 4824; 5034
EciI	GGCGANNNNNNNNNN!	6	1702; 2407; 3980; 5009; 6196; 6342
EciI	!NNNNNNNNNTCCGCC	5	496; 2646; 4151; 4172; 4193
Ecl136II	GAG!CTC	3	1342; 1467; 1575
EclXI	C!GGCCG	2	1566; 4386
Eco24I	GRGCY!C	7	1344; 1423; 1469; 1577; 3671; 4845; 5555
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	4	1240; 1594; 1999; 5469
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	4996; 5441
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	1566; 4386
Eco57I	CTGAAGNNNNNNNNNNNNNN!	6	1129; 1870; 2842; 3026; 4626; 5058
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	5856
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	878; 3960; 5592
Eco88I	C!YCGRG	2	1337; 2555
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	2	340; 2581
Eco130I	C!CWGGG	5	360; 4209; 4302; 4912; 5317
Eco147I	AGG!CCT	2	1048; 4301
EcoHI	!CCSGG	5	1191; 4482; 4642; 5255; 6019
EcoICRI	GAG!CTC	3	1342; 1467; 1575
Eco57MI	CTGRAGNNNNNNNNNNNNNN!	10	1129; 1531; 1870; 2164; 2842; 3026; 3056; 4626; 5058; 5320
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	4	937; 1426; 5263; 5856
EcoNI	CCTNN!NNNAGG	1	1957
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	5578
EcoRI	G!AATTC	0	
EcoRII	!CCWGG	20	88; 281; 794; 842; 938; 953; 1082; 1442; 1508; 2218; 2459; 4014; 4069; 4086; 4865; 5444; 5547; 6237; 6250; 6371
EcoRV	GAT!ATC	0	
EcoT14I	C!CWGGG	5	360; 4209; 4302; 4912; 5317
EcoT22I	ATGCA!T	3	4052; 4124; 6455
EcoT38I	GRGCY!C	7	1344; 1423; 1469; 1577; 3671; 4845; 5555
Eco53kl	GAG!CTC	3	1342; 1467; 1575
EgeI	GGC!GCC	2	1743; 4481
EheI	GGC!GCC	2	1743; 4481
ErhI	C!CWGGG	5	360; 4209; 4302; 4912; 5317
EsaBC3I	TC!GA	22	762; 789; 1257; 1339; 1352; 1494; 1632; 1668; 1759; 1784; 2685; 3630; 4321; 4594; 4750; 4774; 4810; 4972; 5163; 5208; 5463; 6301
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	1	1507
FaeI	CATG!	31	304; 364; 651; 657; 669; 747; 813; 893; 1104; 1986; 2023; 2095; 2113; 2161; 2247; 2303; 2367; 2469; 3910; 4050; 4122; 4213; 4354; 4699; 4885; 4916; 4942; 5298; 5682; 6402; 6453
Fail	YA!TR	82	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 649; 655; 667; 745; 811; 891; 909; 1102; 1155; 1205; 1715; 1766; 1984; 1988; 2021; 2066; 2093; 2111; 2132; 2159; 2245; 2301; 2365; 2432; 2467; 2798; 2804; 2816; 2941; 3001; 3109; 3142; 3152; 3218; 3263; 3468; 3896; 3908; 4039; 4048; 4111; 4120; 4144; 4211; 4235; 4352; 4416; 4697; 4722; 4883; 4914; 4940; 5012; 5228; 5296; 5374; 5426; 5587; 5604; 5606; 5608; 5680; 5958; 6147; 6263; 6336; 6400; 6451
FalI	AAGNNNNCTTNNNNNNNNNNNN!	3	888; 2552; 4820
FalI	!NNNNNNNAAGNNNNNNCTT	3	856; 2520; 4788
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 4631; 5163; 5272
FaqI	!NNNNNNNNNNNNNGTCCC	4	3996; 4068; 4132; 5427
FatI	!CATG	31	300; 360; 647; 653; 665; 743; 809; 889; 1100; 1982; 2019; 2091; 2109; 2157; 2243; 2299; 2363; 2465; 3906; 4046; 4118; 4209; 4350; 4695; 4881; 4912; 4938; 5294; 5678; 6398; 6449
FauI	CCCGCNNNN!	11	93; 119; 286; 1077; 1179; 1651; 3802; 4157; 4178; 5374; 5506
FauI	!NNNNNNNGCGGG	6	1114; 3733; 4603; 5140; 5278; 5425
FauNDI	CA!TATG	1	234

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FbaI	T!GATCA	2	2765; 3137
FblI	GT!MKAC	1	1199
FmuI	GGNC!C	14	86; 279; 772; 1015; 1107; 1128; 1405; 1644; 3590; 4999; 5444; 5490; 5548; 5581
Fnu4HI	GC!NGC	54	768; 819; 963; 1080; 1261; 1375; 1378; 1389; 1392; 1401; 1414; 1438; 1459; 1506; 1534; 1537; 1566; 1660; 1702; 1772; 1793; 1889; 2241; 2413; 2852; 3032; 3257; 3776; 3798; 3812; 4250; 4389; 4441; 4452; 4542; 4547; 4584; 4625; 4712; 4715; 4718; 4954; 5050; 5091; 5105; 5219; 5558; 5573; 5784; 5990; 5993; 6058; 6201; 6356
FokI	GGATGNNNNNNNNN!	5	1395; 4347; 4804; 4829; 5283
FokI	!NNNNNNNNNNNNNNCATCC	8	690; 778; 835; 990; 2250; 2547; 3072; 4153
FriOI	GRGCY!C	7	1344; 1423; 1469; 1577; 3671; 4845; 5555
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	2	1504; 4582
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	11	592; 1298; 2294; 2588; 3128; 3329; 3747; 4303; 5318; 5652; 5905
FspEI	CCNNNNNNNNNNNN!	194	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 690; 720; 737; 751; 784; 798; 816; 840; 855; 885; 918; 945; 960; 979; 1015; 1062; 1081; 1096; 1119; 1141; 1164; 1184; 1205; 1251; 1293; 1309; 1338; 1380; 1405; 1419; 1435; 1456; 1489; 1522; 1582; 1597; 1617; 1656; 1711; 1758; 1878; 1893; 1966; 2022; 2100; 2130; 2170; 2190; 2232; 2254; 2272; 2472; 2540; 2554; 2568; 2670; 2728; 2759; 2820; 2845; 2886; 2902; 2917; 3012; 3076; 3090; 3132; 3163; 3202; 3216; 3357; 3452; 3476; 3499; 3522; 3540; 3562; 3583; 3602; 3621; 3650; 3671; 3685; 3711; 3799; 3825; 3874; 3915; 3933; 3972; 3988; 4026; 4083; 4098; 4155; 4175; 4189; 4206; 4220; 4257; 4272; 4315; 4398; 4465; 4496; 4516; 4531; 4576; 4590; 4656; 4670; 4689; 4705; 4746; 4766; 4813; 4863; 4879; 4899; 4924; 4944; 4967; 4994; 5012; 5038; 5078; 5104; 5128; 5184; 5198; 5226; 5269; 5290; 5325; 5369; 5457; 5481; 5503; 5523; 5539; 5560; 5574; 5593; 5677; 5697; 5725; 5740; 5774; 5816; 5843; 5858; 5903; 5927; 5941; 5963; 5989; 6009; 6033; 6059; 6107; 6126; 6145; 6171; 6206; 6251; 6281; 6295; 6346; 6360; 6385; 6401; 6422; 6451
FspEI	!NNNNNNNNNNNNNNNGG	177	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 607; 625; 652; 694; 715; 739; 781; 800; 829; 865; 902; 925; 944; 974; 995; 1022; 1061; 1087; 1106; 1178; 1204; 1252; 1291; 1310; 1339; 1365; 1385; 1422; 1461; 1483; 1501; 1525; 1543; 1565; 1594; 1624; 1657; 1708; 1796; 1816; 1837; 1855; 1918; 1945; 1978; 1998; 2017; 2062; 2109; 2128; 2205; 2290; 2311; 2374; 2446; 2469; 2496; 2576; 2599; 2654; 2687; 2722; 2742; 2762; 2809; 2832; 2880; 2898; 2920; 2941; 2998; 3020; 3055; 3097; 3151; 3251; 3320; 3428; 3477; 3499; 3527; 3563; 3608; 3637; 3673; 3692; 3720; 3740; 3803; 3826; 3934; 3966; 3984; 4013; 4056; 4085; 4196; 4225; 4268; 4289; 4317; 4350; 4370; 4395; 4422; 4447; 4469; 4497; 4523; 4544; 4595; 4616; 4634; 4682; 4718; 4774; 4799; 4823; 4852; 4875; 4899; 4925; 4947; 4966; 4991; 5031; 5067; 5132; 5217; 5241; 5270; 5304; 5325; 5345; 5390; 5417; 5436; 5469; 5521; 5552; 5579; 5631; 5729; 5800; 5845; 5906; 5971; 6005; 6031; 6049; 6085; 6155; 6178; 6200; 6224; 6257; 6305; 6340; 6358; 6415
Fsp4HI	GC!NGC	54	768; 819; 963; 1080; 1261; 1375; 1378; 1389; 1392; 1401; 1414; 1438; 1459; 1506; 1534; 1537; 1566; 1660; 1702; 1772; 1793; 1889; 2241; 2413; 2852; 3032; 3257; 3776; 3798; 3812; 4250; 4389; 4441; 4452; 4542; 4547; 4584; 4625; 4712; 4715; 4718; 4954; 5050; 5091; 5105; 5219; 5558; 5573; 5784; 5990; 5993; 6058; 6201; 6356
GdiII	C!GGCCR	2	1566; 4386
GdiII	Y!GGCCG	5	1566; 1610; 4386; 4951; 4978
GlaI	GC!GC	38	596; 1395; 1429; 1462; 1504; 1527; 1529; 1552; 1564; 1592; 1619; 1626; 1628; 1651; 1653; 1743; 2029; 2081; 3745; 3753; 3779; 3801; 3810; 3823; 3854; 4473; 4481; 4545; 4582; 4848; 5108; 5284; 5370; 5773; 5882; 6056; 6156; 6223

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
GluI	GC!NGC	54	768; 819; 963; 1080; 1261; 1375; 1378; 1389; 1392; 1401; 1414; 1438; 1459; 1506; 1534; 1537; 1566; 1660; 1702; 1772; 1793; 1889; 2241; 2413; 2852; 3032; 3257; 3776; 3798; 3812; 4250; 4389; 4441; 4452; 4542; 4547; 4584; 4625; 4712; 4715; 4718; 4954; 5050; 5091; 5105; 5219; 5558; 5573; 5784; 5990; 5993; 6058; 6201; 6356
GsaI	CCCAG!C	4	2271; 4027; 4099; 6098
GsaI	GCTGG!G	4	1044; 1675; 2760; 4988
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	4	1531; 2164; 3056; 5320
GsuI	!NNNNNNNNNNNNNNCTCCAG	3	937; 1426; 5263
HaeI	WGG!CCW	8	1048; 1279; 2831; 4301; 4562; 5924; 6376; 6387
HaeII	RGCGC!Y	7	598; 1594; 1745; 3747; 3755; 4483; 6158
HaeIII	GG!CC	33	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1403; 1568; 1583; 1612; 1642; 2831; 3446; 3588; 4243; 4249; 4258; 4301; 4388; 4562; 4953; 4980; 5489; 5546; 5579; 5924; 6358; 6376; 6387
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	3155; 4676
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	3121; 4642
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	3154; 4675
HaeIV	!NNNNNNNGAYNNNNNRTC	2	3123; 4644
HapII	C!CGG	22	601; 1193; 1325; 1476; 1580; 3122; 3698; 4385; 4462; 4484; 4512; 4643; 4733; 4800; 4981; 5256; 5264; 5356; 5830; 6020; 6046; 6193
HgaI	GACGCNNNNN!	4	526; 1624; 5190; 5269
HgaI	!NNNNNNNNNNNGCGTC	5	1185; 2041; 3813; 5708; 6286
HhaI	GCG!C	38	597; 1396; 1430; 1463; 1505; 1528; 1530; 1553; 1565; 1593; 1620; 1627; 1629; 1652; 1654; 1744; 2030; 2082; 3746; 3754; 3780; 3802; 3811; 3824; 3855; 4474; 4482; 4546; 4583; 4849; 5109; 5285; 5371; 5774; 5883; 6057; 6157; 6224
HinI	GR!CGYC	10	122; 175; 258; 444; 1196; 1742; 2052; 4480; 5182; 5261
Hin1II	CATG!	31	304; 364; 651; 657; 669; 747; 813; 893; 1104; 1986; 2023; 2095; 2113; 2161; 2247; 2303; 2367; 2469; 3910; 4050; 4122; 4213; 4354; 4699; 4885; 4916; 4942; 5298; 5682; 6402; 6453
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	3	1645; 3154; 4675
Hin4I	!NNNNNNNNNGABNNNNNRTC	3	3122; 4643; 4673
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	3154; 4675; 4705
Hin4I	!NNNNNNNNNGAYNNNNNVTC	3	1613; 3122; 4643
Hin6I	G!CGC	38	595; 1394; 1428; 1461; 1503; 1526; 1528; 1551; 1563; 1591; 1618; 1625; 1627; 1650; 1652; 1742; 2028; 2080; 3744; 3752; 3778; 3800; 3809; 3822; 3853; 4472; 4480; 4544; 4581; 4847; 5107; 5283; 5369; 5772; 5881; 6055; 6155; 6222
HinP1I	G!CGC	38	595; 1394; 1428; 1461; 1503; 1526; 1528; 1551; 1563; 1591; 1618; 1625; 1627; 1650; 1652; 1742; 2028; 2080; 3744; 3752; 3778; 3800; 3809; 3822; 3853; 4472; 4480; 4544; 4581; 4847; 5107; 5283; 5369; 5772; 5881; 6055; 6155; 6222
HincII	GTY!RAC	2	2211; 3243
HindII	GTY!RAC	2	2211; 3243
HindIII	A!AGCTT	2	1346; 1753
HinfI	G!ANTC	21	410; 749; 899; 1226; 1328; 1726; 1938; 2044; 2290; 2313; 2620; 3523; 3545; 3955; 4965; 5099; 5151; 5209; 5246; 6028; 6424
HpaI	GTT!AAC	1	3243
HpaII	C!CGG	22	601; 1193; 1325; 1476; 1580; 3122; 3698; 4385; 4462; 4484; 4512; 4643; 4733; 4800; 4981; 5256; 5264; 5356; 5830; 6020; 6046; 6193
HphI	GGTGANNNNNNNN!	6	376; 1005; 1554; 1825; 5551; 5667
HphI	!NNNNNNNTCACC	4	894; 1569; 3597; 4658
Hpy8I	GTN!NAC	16	201; 539; 577; 681; 701; 996; 1200; 1209; 1488; 2211; 2578; 3243; 3527; 3544; 3599; 6086
Hpy99I	CGWCG!	12	1258; 1618; 1625; 1636; 2363; 4570; 4598; 4892; 4907; 5184; 5569; 6302
Hpy166II	GTN!NAC	16	201; 539; 577; 681; 701; 996; 1200; 1209; 1488; 2211; 2578; 3243; 3527; 3544; 3599; 6086
Hpy188I	TCN!GA	22	585; 708; 988; 1333; 1731; 1850; 1859; 1949; 2190; 2625; 2733; 2770; 3654; 4263; 4447; 4791; 5144; 5245; 5724; 5858; 6211; 6289

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hpy188III	TC!NNGA	32	981; 1185; 1325; 1337; 1759; 2092; 2294; 2317; 2443; 2555; 2810; 2895; 3128; 3907; 3959; 4272; 4325; 4498; 4814; 4823; 4906; 4962; 5006; 5096; 5129; 5198; 5679; 5753; 5836; 5934; 6032; 6166
HpyAV	CCTTCNNNNNN!	8	789; 837; 882; 2098; 2543; 5125; 5232; 5911
HpyAV	!NNNNNGAAGG	16	709; 1081; 1443; 1716; 1845; 2006; 2491; 2817; 2928; 3713; 4608; 5337; 5353; 5536; 5853; 6163
HpyCH4III	ACN!GT	21	76; 198; 269; 543; 581; 678; 1901; 2183; 2208; 2215; 2550; 2838; 2985; 3571; 4860; 4976; 5084; 5407; 5898; 6368; 6439
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 977; 1253; 2580; 3540; 3552; 3595; 3705; 4596; 4783; 5564; 5697
HpyCH4V	TG!CA	31	651; 701; 1023; 1139; 1533; 1539; 1662; 1682; 1792; 1807; 1888; 2412; 2681; 2854; 3103; 3229; 3256; 3324; 4041; 4050; 4113; 4122; 4237; 4313; 4372; 4531; 4706; 4720; 5790; 6086; 6453
HpyF3I	C!TNAG	17	620; 878; 1175; 1330; 1417; 1718; 1881; 1958; 2493; 2661; 2954; 3960; 4262; 5143; 5592; 5715; 6124
HpyF10VI	GCNNNNN!NNGC	40	90; 212; 244; 283; 376; 400; 657; 1088; 1354; 1397; 1427; 1464; 1536; 1624; 1656; 1668; 1798; 1882; 2025; 2418; 2857; 3707; 3737; 3764; 3806; 4047; 4119; 4170; 4249; 4471; 4555; 4578; 4717; 4840; 4923; 5190; 5377; 5581; 5780; 6352
Hsp92I	GR!CGYC	10	122; 175; 258; 444; 1196; 1742; 2052; 4480; 5182; 5261
Hsp92II	CATG!	31	304; 364; 651; 657; 669; 747; 813; 893; 1104; 1986; 2023; 2095; 2113; 2161; 2247; 2303; 2367; 2469; 3910; 4050; 4122; 4213; 4354; 4699; 4885; 4916; 4942; 5298; 5682; 6402; 6453
HspAI	G!CGC	38	595; 1394; 1428; 1461; 1503; 1526; 1528; 1551; 1563; 1591; 1618; 1625; 1627; 1650; 1652; 1742; 2028; 2080; 3744; 3752; 3778; 3800; 3809; 3822; 3853; 4472; 4480; 4544; 4581; 4847; 5107; 5283; 5369; 5772; 5881; 6055; 6155; 6222
KasI	G!GCGCC	2	1741; 4479
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1324
KspI	CCGC!GG	1	1381
Ksp22I	T!GATCA	2	2765; 3137
KspAI	GTT!AAC	1	3243
Kzo9I	!GATC	32	585; 983; 1133; 1159; 1333; 1664; 1731; 1748; 1845; 1854; 2403; 2739; 2765; 3115; 3124; 3137; 4317; 4321; 4340; 4651; 4729; 4810; 4819; 4897; 5273; 5289; 5648; 5660; 5738; 5746; 5757; 5832
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	3	623; 4824; 5034
LpnI	RGC!GCGY	7	596; 1592; 1743; 3745; 3753; 4481; 6156
LpnPI	CCDGNNNNNNNNN!	78	102; 295; 614; 751; 808; 856; 890; 952; 967; 1028; 1096; 1120; 1144; 1206; 1293; 1338; 1444; 1489; 1522; 1593; 1711; 1759; 1879; 2022; 2190; 2232; 2281; 2473; 2845; 2886; 2917; 3017; 3079; 3135; 3217; 3522; 3711; 3934; 3972; 3988; 4028; 4083; 4100; 4200; 4285; 4398; 4475; 4497; 4520; 4656; 4670; 4689; 4746; 4813; 4863; 4879; 4936; 4994; 5203; 5269; 5293; 5369; 5458; 5561; 5594; 5825; 5843; 5989; 6009; 6033; 6059; 6108; 6206; 6251; 6281; 6360; 6385; 6422
LpnPI	!NNNNNNNNNNNNNCHGG	79	75; 268; 552; 586; 781; 829; 925; 1026; 1069; 1178; 1204; 1291; 1310; 1382; 1429; 1461; 1495; 1525; 1565; 1594; 1657; 2033; 2062; 2128; 2205; 2446; 2469; 2654; 2722; 2742; 2813; 2846; 2880; 2906; 2941; 3020; 3055; 3107; 3563; 3683; 3740; 3803; 4001; 4013; 4073; 4085; 4317; 4362; 4405; 4447; 4469; 4497; 4544; 4606; 4628; 4718; 4785; 4808; 4852; 4947; 4966; 4991; 5140; 5241; 5284; 5341; 5431; 5534; 5561; 5579; 5815; 5852; 6005; 6031; 6171; 6189; 6224; 6305; 6358
Lsp1109I	GCAGCNNNNNNNN!	16	830; 1272; 1400; 1517; 1545; 1783; 1804; 1900; 2424; 3043; 3268; 4553; 4595; 5116; 5569; 6069
Lsp1109I	!NNNNNNNNNNNNGCTGC	13	949; 1445; 1517; 1646; 1688; 1872; 2838; 3762; 4427; 4611; 4704; 5770; 5976
LweI	GCATCNNNNN!	11	857; 2569; 2654; 2690; 3094; 3296; 4059; 4131; 4779; 4843; 5118
LweI	!NNNNNNNNNNGATGC	10	357; 1010; 1049; 1178; 1779; 2103; 4438; 4693; 4909; 6301
MabI	A!CCWGGT	1	4069
MaeI	C!TAG	11	592; 1298; 2294; 2588; 3128; 3329; 3747; 4303; 5318; 5652; 5905

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 977; 1253; 2580; 3540; 3552; 3595; 3705; 4596; 4783; 5564; 5697
MaeIII	!GTNAC	18	61; 148; 497; 900; 1542; 1813; 2544; 2838; 2865; 3268; 3769; 3781; 4600; 4906; 5596; 5862; 5978; 6041
MaiI	GA!TC	32	587; 985; 1135; 1161; 1335; 1666; 1733; 1750; 1847; 1856; 2405; 2741; 2767; 3117; 3126; 3139; 4319; 4323; 4342; 4653; 4731; 4812; 4821; 4899; 5275; 5291; 5650; 5662; 5740; 5748; 5759; 5834
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3904; 5093
MbiI	GAG!CGG	2	3740; 5147
MboI	!GATC	32	585; 983; 1133; 1159; 1333; 1664; 1731; 1748; 1845; 1854; 2403; 2739; 2765; 3115; 3124; 3137; 4317; 4321; 4340; 4651; 4729; 4810; 4819; 4897; 5273; 5289; 5648; 5660; 5738; 5746; 5757; 5832
MboII	GAAGANNNNNNN!	22	640; 925; 1038; 1158; 1226; 2002; 2236; 2515; 2613; 2629; 2698; 2733; 2910; 2938; 3019; 3037; 3064; 3736; 3964; 4841; 5051; 5670
MboII	!NNNNNNNTCTTC	5	2528; 5131; 5298; 5498; 5741
McaTI	GCGC!GC	3	1529; 1628; 1653
MfeI	C!AATTG	1	3230
MflI	R!GATCY	13	585; 1159; 1333; 1845; 3115; 3124; 4651; 4897; 5289; 5648; 5660; 5746; 5757
MhII	GDGCH!C	17	676; 703; 736; 1313; 1344; 1423; 1469; 1577; 2920; 3671; 4426; 4519; 4593; 4783; 4845; 5555; 6088
MisI	TGG!CCA	2	1279; 4562
MluI	A!CGCGT	1	3366
MluNI	TGG!CCA	2	1279; 4562
MlyI	GAGTCNNNNN!	4	908; 2299; 3532; 3964
MlyI	!NNNNNGACTC	5	404; 1322; 3539; 5145; 6022
Mly113I	GG!CGG	2	1742; 4480
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1031; 3573
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	3	1850; 6005; 6189
MnII	CCTCNNNNNN!	20	782; 961; 976; 1059; 1192; 1303; 1594; 1717; 1887; 2574; 2670; 2817; 2899; 3199; 4263; 5081; 5287; 5601; 5971; 6295
MnII	!NNNNNGAGG	40	541; 663; 702; 723; 756; 873; 982; 1038; 1227; 1260; 1446; 1548; 1824; 1836; 1953; 1986; 2031; 2117; 2130; 2319; 2504; 2584; 2597; 2619; 2746; 2955; 3006; 3042; 3159; 3624; 3955; 4233; 4276; 4291; 4331; 4395; 4531; 4888; 5318; 6221
Mph1103I	ATGCA!T	3	4052; 4124; 6455
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1324
MroNI	G!CCGGC	3	3697; 4980; 5263
MroXI	GAANN!NNTTC	2	2312; 2438
MscI	TGG!CCA	2	1279; 4562
MseI	T!TAA	22	7; 638; 863; 1319; 1736; 1922; 2000; 2990; 3181; 3242; 3363; 3384; 3395; 3407; 3418; 3435; 3533; 3804; 5623; 5637; 5642; 5694
MslI	CAYNN!NNRTG	5	365; 613; 652; 1057; 4917
MspI	C!CGG	22	601; 1193; 1325; 1476; 1580; 3122; 3698; 4385; 4462; 4484; 4512; 4643; 4733; 4800; 4981; 5256; 5264; 5356; 5830; 6020; 6046; 6193
Msp20I	TGG!CCA	2	1279; 4562
MspA1I	CMG!CKG	11	1072; 1380; 1416; 1536; 1701; 2421; 3034; 3978; 4586; 5815; 6060
MspCI	C!TTAAG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	328	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; 632; 646; 660; 678; 708; 726; 741; 756; 774; 807; 822; 850; 865; 889; 902; 918; 936; 950; 966; 979; 993; 1014; 1027; 1048; 1067; 1081; 1095; 1113; 1126; 1143; 1164; 1183; 1197; 1224; 1242; 1262; 1276; 1292; 1309; 1324; 1337; 1351; 1381; 1405; 1422; 1435; 1448; 1474; 1488; 1509; 1522; 1539; 1552; 1566; 1582; 1597; 1611; 1625; 1638; 1655; 1668; 1684; 1700; 1720; 1742; 1757; 1771; 1789; 1810; 1830; 1861; 1877; 1893; 1919; 1933; 1960; 1977; 1995; 2016; 2032; 2060; 2085; 2104; 2122; 2155; 2170; 2189; 2231; 2254; 2279; 2296; 2312; 2329; 2343; 2369; 2384; 2405; 2419; 2434; 2455; 2472; 2492; 2505; 2539; 2552; 2567; 2584; 2600; 2636; 2663; 2681; 2697; 2730; 2744; 2758; 2781; 2796; 2820; 2833; 2867; 2880; 2893; 2907; 2922; 2937; 2966; 2984; 3012; 3047; 3078; 3091; 3134; 3148; 3163; 3187; 3204; 3217; 3258; 3272; 3285; 3303; 3341; 3356; 3374; 3415; 3439; 3459; 3477; 3498; 3521; 3553; 3568; 3590; 3608; 3621; 3642; 3659; 3672; 3685; 3701; 3714; 3744; 3759; 3784; 3802; 3815; 3830; 3854; 3868; 3892; 3917; 3933; 3971; 3987; 4026; 4040; 4054; 4082; 4098; 4112; 4126; 4155; 4168; 4189; 4198; 4220; 4250; 4266; 4284; 4314; 4337; 4361; 4385; 4404; 4432; 4458; 4474; 4487; 4510; 4524; 4544; 4557; 4571; 4590; 4604; 4617; 4633; 4648; 4661; 4677; 4692; 4708; 4733; 4752; 4768; 4781; 4794; 4812; 4826; 4840; 4856; 4878; 4894; 4913; 4935; 4951; 4974; 4993; 5007; 5023; 5037; 5057; 5073; 5086; 5108; 5141; 5155; 5175; 5188; 5202; 5256; 5269; 5292; 5305; 5324; 5341; 5368; 5404; 5437; 5456; 5481; 5502; 5529; 5542; 5559; 5573; 5588; 5604; 5664; 5689; 5705; 5727; 5740; 5754; 5785; 5799; 5824; 5842; 5857; 5870; 5889; 5902; 5917; 5946; 5965; 5983; 6008; 6023; 6042; 6058; 6077; 6095; 6111; 6125; 6144; 6171; 6194; 6216; 6235; 6250; 6263; 6280; 6300; 6327; 6340; 6359; 6384; 6407; 6421; 6434; 6451
MspJI	!NNNNNNNNNNNNYNG	270	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 607; 625; 652; 682; 706; 724; 748; 767; 789; 829; 850; 876; 896; 925; 967; 1001; 1022; 1042; 1069; 1087; 1104; 1122; 1150; 1171; 1190; 1216; 1238; 1261; 1284; 1310; 1331; 1348; 1365; 1383; 1404; 1422; 1446; 1466; 1483; 1513; 1538; 1556; 1573; 1591; 1610; 1629; 1654; 1679; 1700; 1732; 1751; 1768; 1796; 1814; 1834; 1852; 1889; 1918; 1945; 1969; 1990; 2013; 2033; 2051; 2069; 2096; 2119; 2144; 2163; 2205; 2230; 2254; 2280; 2303; 2321; 2343; 2385; 2417; 2441; 2460; 2480; 2514; 2541; 2565; 2599; 2616; 2642; 2664; 2689; 2717; 2736; 2754; 2774; 2796; 2814; 2832; 2859; 2880; 2898; 2917; 2941; 2990; 3021; 3052; 3086; 3108; 3132; 3161; 3190; 3232; 3315; 3353; 3377; 3400; 3429; 3473; 3495; 3527; 3563; 3580; 3601; 3638; 3658; 3675; 3692; 3727; 3745; 3763; 3780; 3804; 3826; 3853; 3881; 3907; 3945; 3966; 3983; 4001; 4024; 4045; 4073; 4096; 4117; 4135; 4156; 4173; 4196; 4220; 4240; 4258; 4280; 4311; 4333; 4359; 4378; 4395; 4423; 4442; 4461; 4479; 4497; 4518; 4540; 4564; 4597; 4617; 4635; 4656; 4682; 4709; 4726; 4743; 4760; 4786; 4808; 4830; 4848; 4868; 4887; 4909; 4947; 4967; 4991; 5011; 5031; 5058; 5082; 5115; 5134; 5162; 5184; 5213; 5241; 5266; 5285; 5304; 5325; 5342; 5359; 5390; 5417; 5437; 5460; 5480; 5517; 5534; 5553; 5579; 5599; 5638; 5665; 5684; 5702; 5739; 5757; 5798; 5816; 5842; 5859; 5891; 5920; 5948; 5969; 5992; 6011; 6032; 6050; 6067; 6085; 6111; 6132; 6152; 6172; 6190; 6211; 6237; 6254; 6273; 6292; 6321; 6340; 6358; 6377; 6395; 6413; 6436
MspR9I	CC!NGG	25	90; 283; 796; 844; 940; 955; 1084; 1193; 1444; 1510; 2220; 2461; 4016; 4071; 4088; 4484; 4644; 4867; 5257; 5446; 5549; 6021; 6239; 6252; 6373
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	3230
MvaI	CC!WGG	20	90; 283; 796; 844; 940; 955; 1084; 1444; 1510; 2220; 2461; 4016; 4071; 4088; 4867; 5446; 5549; 6239; 6252; 6373
Mva1269I	GAATGCN!	2	2178; 3231
Mva1269I	G!CATTC	1	3324
MvnI	CG!CG	30	60; 1380; 1394; 1428; 1437; 1463; 1528; 1553; 1565; 1618; 1620; 1625; 1627; 1646; 1652; 2028; 3368; 3404; 3780; 3800; 3824; 3855; 4546; 4847; 5285; 5369; 5432; 5501; 5774; 6355
MvrI	CGAT!CG	0	



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MwoI	GCNNNNN!NNGC	40	90; 212; 244; 283; 376; 400; 657; 1088; 1354; 1397; 1427; 1464; 1536; 1624; 1656; 1668; 1798; 1882; 2025; 2418; 2857; 3707; 3737; 3764; 3806; 4047; 4119; 4170; 4249; 4471; 4555; 4578; 4717; 4840; 4923; 5190; 5377; 5581; 5780; 6352
NaeI	GCC!GGC	3	3699; 4982; 5265
NarI	GG!CGCC	2	1742; 4480
NciI	CC!SGG	5	1193; 4484; 4644; 5257; 6021
NcoI	C!CATGG	3	360; 4209; 4912
NdeI	CA!TATG	1	234
NdeII	!GATC	32	585; 983; 1133; 1159; 1333; 1664; 1731; 1748; 1845; 1854; 2403; 2739; 2765; 3115; 3124; 3137; 4317; 4321; 4340; 4651; 4729; 4810; 4819; 4897; 5273; 5289; 5648; 5660; 5738; 5746; 5757; 5832
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	740
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	776
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	3697; 4980; 5263
NheI	G!CTAGC	1	591
NlaIII	CATG!	31	304; 364; 651; 657; 669; 747; 813; 893; 1104; 1986; 2023; 2095; 2113; 2161; 2247; 2303; 2367; 2469; 3910; 4050; 4122; 4213; 4354; 4699; 4885; 4916; 4942; 5298; 5682; 6402; 6453
NlaIV	GGN!NCC	22	467; 675; 735; 1126; 1404; 1441; 1743; 3075; 3117; 3635; 3656; 3668; 3859; 4020; 4092; 4481; 4516; 5364; 5443; 5488; 6331; 6370
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	3312; 3627; 5219
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 1000; 6291
Nli3877I	CYCGR!G	2	1341; 2559
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	4269; 4705
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1016; 4234
NmeDI	RCCGGYNNNNNNN!	7	612; 1487; 1591; 3709; 4811; 4992; 5275
NmeDI	!NNNNNNNNNNNNRCCGGY	7	587; 1462; 1566; 3684; 4786; 4967; 5250
NmuCI	!GTSAC	8	900; 1542; 1813; 2544; 2865; 3769; 4600; 4906
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	2	1504; 4582
NsiI	ATGCA!T	3	4052; 4124; 6455
NspI	RCATG!Y	8	651; 1986; 2303; 2367; 4050; 4122; 4885; 6402
NspV	TT!CGAA	2	1783; 5162
OliI	CACNN!NNGTG	1	613
PabI	GTA!C	15	220; 245; 300; 333; 384; 541; 665; 815; 1067; 1490; 2072; 2580; 2584; 2983; 4787
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	4	2367; 4050; 4122; 4885
PaeR7I	C!TCGAG	1	1337
PagI	T!CATGA	3	2091; 3906; 5678
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	843; 5445; 5548
PauI	G!CGCGC	3	1526; 1625; 1650
PceI	AGG!CCT	2	1048; 4301
PciI	A!CATGT	1	6398
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	3	623; 4824; 5034
PcsI	WCGNNNN!NNNCGW	8	1262; 2577; 4774; 4851; 5094; 5168; 5561; 6079
PctI	GAATGCN!	2	2178; 3231
PctI	G!CATTC	1	3324
PdiI	GCC!GGC	3	3699; 4982; 5265
PdmI	GAANN!NNTTC	2	2312; 2438
PfeI	G!AWTC	12	749; 1226; 1726; 1938; 2044; 2313; 2620; 4965; 5099; 5209; 5246; 6424
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	4598
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	3	953; 1442; 5255

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PhoI	GG!CC	33	84; 277; 770; 1013; 1048; 1082; 1105; 1127; 1237; 1279; 1403; 1568; 1583; 1612; 1642; 2831; 3446; 3588; 4243; 4249; 4258; 4301; 4388; 4562; 4953; 4980; 5489; 5546; 5579; 5924; 6358; 6376; 6387
PinAI	A!CCGGT	1	600
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	3	2212; 2812; 4861
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	2210; 4426; 4681
PleI	GAGTCNNNN!	4	907; 2298; 3531; 3963
PleI	!NNNNNGACTC	5	404; 1322; 3539; 5145; 6022
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNNCTCNNNNNNNNNNNN!	2	2925; 3562
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	5692
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	5724
PpiI	!NNNNNNNGAACNNNNNNCTC	2	2893; 3530
PpsI	GAGTCNNNN!	4	907; 2298; 3531; 3963
PpsI	!NNNNNGACTC	5	404; 1322; 3539; 5145; 6022
Ppu10I	A!TGCAT	3	4048; 4120; 6451
Ppu21I	YAC!GTR	4	340; 2581; 3596; 4784
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	6398
PshAI	GACNN!NNGTC	1	1252
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	3	2798; 3263; 3468
Psp03I	GGWC!C	2	4999; 5444
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	20	88; 281; 794; 842; 938; 953; 1082; 1442; 1508; 2218; 2459; 4014; 4069; 4086; 4865; 5444; 5547; 6237; 6250; 6371
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	3	1344; 1469; 1577
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	20	88; 281; 794; 842; 938; 953; 1082; 1442; 1508; 2218; 2459; 4014; 4069; 4086; 4865; 5444; 5547; 6237; 6250; 6371
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	22	467; 675; 735; 1126; 1404; 1441; 1743; 3075; 3117; 3635; 3656; 3668; 3859; 4020; 4092; 4481; 4516; 5364; 5443; 5488; 6331; 6370
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	4	125; 1769; 4210; 5209
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	2	2029; 4612
PspPI	G!GNCC	14	83; 276; 769; 1012; 1104; 1125; 1402; 1641; 3587; 4996; 5441; 5487; 5545; 5578
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	4	2680; 4033; 4105; 5611
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	5	864; 1292; 1944; 3946; 5141
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	5581
PstI	CTGCA!G	4	1535; 1541; 1664; 1890
PstNI	CAGNNN!CTG	4	1286; 2668; 5581; 5989
PsuI	R!GATCY	13	585; 1159; 1333; 1845; 3115; 3124; 4651; 4897; 5289; 5648; 5660; 5746; 5757
PsyI	GACN!NNGTC	1	4598
PteI	G!CGCGC	3	1526; 1625; 1650
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	6	1536; 1701; 2421; 3034; 3978; 4586
RcaI	T!CATGA	3	2091; 3906; 5678
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	2	1517; 4995
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RgiI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	1	3209
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	15	219; 244; 299; 332; 383; 540; 664; 814; 1066; 1489; 2071; 2579; 2583; 2982; 4786
RsaNI	G!TAC	15	218; 243; 298; 331; 382; 539; 663; 813; 1065; 1488; 2070; 2578; 2582; 2981; 4785
RseI	CAYNN!NNRTG	5	365; 613; 652; 1057; 4917
RsrII	CG!GWCCG	1	4996
Rsr2I	CG!GWCCG	1	4996
SacI	GAGCT!C	3	1344; 1469; 1577
SacII	CCGC!GG	1	1381
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	3	623; 4824; 5034
SaqAI	T!TAA	22	7; 638; 863; 1319; 1736; 1922; 2000; 2990; 3181; 3242; 3363; 3384; 3395; 3407; 3418; 3435; 3533; 3804; 5623; 5637; 5642; 5694
SatI	GC!NGC	54	768; 819; 963; 1080; 1261; 1375; 1378; 1389; 1392; 1401; 1414; 1438; 1459; 1506; 1534; 1537; 1566; 1660; 1702; 1772; 1793; 1889; 2241; 2413; 2852; 3032; 3257; 3776; 3798; 3812; 4250; 4389; 4441; 4452; 4542; 4547; 4584; 4625; 4712; 4715; 4718; 4954; 5050; 5091; 5105; 5219; 5558; 5573; 5784; 5990; 5993; 6058; 6201; 6356
Sau96I	G!GNCC	14	83; 276; 769; 1012; 1104; 1125; 1402; 1641; 3587; 4996; 5441; 5487; 5545; 5578
Sau3AI	!GATC	32	585; 983; 1133; 1159; 1333; 1664; 1731; 1748; 1845; 1854; 2403; 2739; 2765; 3115; 3124; 3137; 4317; 4321; 4340; 4651; 4729; 4810; 4819; 4897; 5273; 5289; 5648; 5660; 5738; 5746; 5757; 5832
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	908; 2299; 3532; 3964
SchI	!NNNNNGACTC	5	404; 1322; 3539; 5145; 6022
SciI	CTC!GAG	1	1339
ScrFI	CC!NGG	25	90; 283; 796; 844; 940; 955; 1084; 1193; 1444; 1510; 2220; 2461; 4016; 4071; 4088; 4484; 4644; 4867; 5257; 5446; 5549; 6021; 6239; 6252; 6373
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	9	1050; 1118; 1238; 1470; 2036; 4058; 4130; 4299; 6241
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	3	2709; 4635; 5120
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	17	676; 703; 736; 1313; 1344; 1423; 1469; 1577; 2920; 3671; 4426; 4519; 4593; 4783; 4845; 5555; 6088
SelI	!CGCG	30	58; 1378; 1392; 1426; 1435; 1461; 1526; 1551; 1563; 1616; 1618; 1623; 1625; 1644; 1650; 2026; 3366; 3402; 3778; 3798; 3822; 3853; 4544; 4845; 5283; 5367; 5430; 5499; 5772; 6353
SetI	ASST!	94	125; 137; 178; 261; 308; 342; 447; 552; 568; 635; 662; 758; 808; 829; 980; 1115; 1133; 1184; 1252; 1256; 1271; 1295; 1344; 1350; 1460; 1469; 1502; 1538; 1544; 1562; 1577; 1610; 1661; 1673; 1703; 1757; 1797; 1887; 2042; 2078; 2144; 2273; 2423; 2441; 2515; 2522; 2583; 2809; 2891; 2939; 2969; 3006; 3036; 3100; 3170; 3191; 3200; 3212; 3261; 3428; 3543; 3555; 3598; 3635; 3685; 3708; 3832; 3980; 4075; 4268; 4381; 4509; 4588; 4599; 4671; 4742; 4786; 5046; 5192; 5236; 5567; 5598; 5657; 5700; 5843; 5864; 5963; 6100; 6115; 6134; 6146; 6190; 6236; 6287
SexAI	A!CCWGGT	1	4069
SfaAI	GCGAT!CGC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SfaNI	GCATCNNNNN!	11	857; 2569; 2654; 2690; 3094; 3296; 4059; 4131; 4779; 4843; 5118
SfaNI	!NNNNNNNNNGATGC	10	357; 1010; 1049; 1178; 1779; 2103; 4438; 4693; 4909; 6301
SfcI	C!TRYAG	8	1531; 1537; 1660; 1886; 2281; 3815; 5942; 6133
SfiI	GGCCNNNN!NGGCC	1	4255
SfoI	GGC!GCC	2	1743; 4481
Sfr274I	C!TCGAG	1	1337
Sfr303I	CCGC!GG	1	1381
Sful	TT!CGAA	2	1783; 5162
SgeI	CNNGNNNNNNNNN!	249	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 660; 678; 708; 732; 750; 765; 807; 822; 855; 889; 902; 930; 951; 966; 993; 1027; 1048; 1068; 1081; 1095; 1113; 1126; 1143; 1176; 1197; 1231; 1269; 1292; 1310; 1337; 1351; 1381; 1405; 1422; 1437; 1455; 1474; 1488; 1509; 1522; 1539; 1552; 1566; 1582; 1599; 1617; 1631; 1650; 1663; 1680; 1695; 1710; 1758; 1771; 1810; 1878; 1977; 1995; 2016; 2032; 2060; 2085; 2104; 2122; 2155; 2170; 2189; 2231; 2256; 2280; 2306; 2329; 2343; 2369; 2455; 2472; 2496; 2540; 2554; 2567; 2600; 2642; 2681; 2730; 2749; 2769; 2822; 2840; 2873; 2907; 2922; 2968; 3016; 3047; 3078; 3092; 3134; 3187; 3216; 3258; 3341; 3379; 3415; 3499; 3521; 3553; 3590; 3608; 3627; 3642; 3684; 3701; 3718; 3753; 3767; 3784; 3806; 3830; 3854; 3919; 3933; 3971; 3987; 4027; 4040; 4059; 4082; 4099; 4112; 4131; 4161; 4182; 4199; 4222; 4257; 4284; 4315; 4337; 4363; 4385; 4404; 4432; 4468; 4487; 4510; 4524; 4544; 4557; 4571; 4590; 4604; 4623; 4655; 4669; 4682; 4708; 4739; 4752; 4769; 4786; 4800; 4817; 4835; 4850; 4878; 4894; 4913; 4935; 4951; 4974; 4993; 5018; 5037; 5057; 5084; 5108; 5141; 5160; 5188; 5202; 5268; 5292; 5307; 5330; 5351; 5368; 5416; 5443; 5457; 5486; 5510; 5543; 5560; 5580; 5593; 5606; 5664; 5691; 5710; 5740; 5765; 5785; 5799; 5824; 5842; 5879; 5917; 5946; 5974; 5988; 6008; 6023; 6044; 6058; 6077; 6095; 6111; 6151; 6171; 6198; 6216; 6237; 6250; 6263; 6280; 6304; 6327; 6359; 6384; 6411; 6433
SgeI	!NNNNNNNNNNNNCNG	219	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 634; 652; 682; 706; 724; 748; 781; 829; 863; 904; 925; 967; 1001; 1022; 1042; 1069; 1087; 1108; 1129; 1150; 1171; 1205; 1243; 1266; 1284; 1311; 1331; 1355; 1379; 1396; 1413; 1430; 1448; 1466; 1483; 1513; 1538; 1556; 1573; 1591; 1610; 1629; 1654; 1679; 1732; 1784; 1852; 1951; 1969; 1990; 2013; 2034; 2059; 2078; 2096; 2129; 2153; 2205; 2230; 2254; 2280; 2303; 2321; 2343; 2429; 2446; 2470; 2514; 2541; 2574; 2616; 2655; 2704; 2723; 2743; 2796; 2814; 2847; 2881; 2898; 2942; 2990; 3021; 3052; 3108; 3161; 3190; 3232; 3315; 3353; 3389; 3473; 3495; 3527; 3564; 3582; 3601; 3658; 3675; 3692; 3727; 3745; 3765; 3785; 3804; 3828; 3893; 3945; 4001; 4033; 4056; 4073; 4105; 4135; 4156; 4173; 4196; 4231; 4258; 4289; 4311; 4337; 4359; 4378; 4406; 4442; 4461; 4484; 4505; 4523; 4540; 4564; 4597; 4629; 4656; 4682; 4713; 4743; 4760; 4786; 4809; 4830; 4852; 4872; 4892; 4909; 4948; 4967; 4992; 5011; 5031; 5058; 5082; 5115; 5134; 5162; 5184; 5242; 5266; 5285; 5304; 5325; 5342; 5390; 5417; 5437; 5460; 5484; 5517; 5534; 5554; 5580; 5638; 5665; 5684; 5714; 5739; 5759; 5798; 5816; 5853; 5891; 5920; 5948; 5969; 5997; 6018; 6051; 6069; 6125; 6145; 6172; 6190; 6211; 6237; 6254; 6278; 6301; 6333; 6358; 6385; 6407; 6436
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	1381
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 3627; 5414; 6207
SimI	!GACCC	5	106; 1364; 4908; 5476; 5724
SinI	G!GWCC	2	4996; 5441
SlaI	C!TCGAG	1	1337
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	5	365; 613; 652; 1057; 4917
SmlI	C!TYRAG	11	1183; 1337; 1343; 1585; 2167; 2565; 2808; 4871; 5753; 6030; 6292

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SmoI	C!TYRAG	11	1183; 1337; 1343; 1585; 2167; 2565; 2808; 4871; 5753; 6030; 6292
SmuI	CCC GCNNNN!	11	93; 119; 286; 1077; 1179; 1651; 3802; 4157; 4178; 5374; 5506
SmuI	!NNNNNNGCGGG	6	1114; 3733; 4603; 5140; 5278; 5425
SnaBI	TAC!GTA	2	340; 2581
SpeI	A!CTAGT	0	
SphI	GCATG!C	4	2367; 4050; 4122; 4885
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	21	18; 1320; 1779; 2057; 2249; 2320; 2690; 2707; 2774; 2843; 2949; 3104; 3230; 3294; 3372; 3398; 3409; 4056; 4128; 4220; 5638
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	2	1048; 4301
SsiI	C!CGC	42	58; 86; 98; 112; 279; 507; 589; 932; 1070; 1172; 1375; 1378; 1392; 1414; 1644; 2241; 2657; 2715; 3795; 3798; 3812; 3902; 4150; 4162; 4171; 4183; 4193; 4204; 4250; 4389; 4452; 4954; 4999; 5065; 5091; 5216; 5219; 5367; 5499; 5806; 5950; 6446
SsiI	G!CGG	34	370; 403; 528; 767; 1079; 1121; 1380; 1400; 1437; 1483; 1565; 1687; 2392; 2598; 3740; 3767; 3855; 3965; 4546; 4610; 4711; 4714; 4994; 5049; 5147; 5285; 5432; 5572; 5815; 6060; 6181; 6200; 6327; 6355
SspI	AAT!ATT	2	3388; 3941
SspDI	G!GCGCC	2	1741; 4479
SspD5I	GGTGANNNNNNNN!	6	376; 1005; 1554; 1825; 5551; 5667
SspD5I	!NNNNNNNNNTCACC	4	893; 1568; 3596; 4657
SstI	GAGCT!C	3	1344; 1469; 1577
SstII	CCGC!GG	1	1381
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	938
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	23	92; 118; 285; 860; 1076; 1178; 1199; 1376; 1650; 2547; 2562; 3679; 3801; 4156; 4177; 4490; 4893; 5032; 5103; 5373; 5505; 5735; 6173
Sth132I	!NNNNNNNNNCGGG	20	15; 407; 470; 909; 1113; 3680; 3732; 3833; 4560; 4602; 4635; 5139; 5248; 5277; 5424; 5528; 5559; 6012; 6056; 6264
Sth302II	CC!GG	22	602; 1194; 1326; 1477; 1581; 3123; 3699; 4386; 4463; 4485; 4513; 4644; 4734; 4801; 4982; 5257; 5265; 5357; 5831; 6021; 6047; 6194
StrI	C!TCGAG	1	1337
StsI	GGATGNNNNNNNNNN!	5	1396; 4348; 4805; 4830; 5284
StsI	!NNNNNNNNNNNNNNNNCATCC	8	689; 777; 834; 989; 2249; 2546; 3071; 4152
StuI	AGG!CCT	2	1048; 4301
StyI	C!CWWGG	5	360; 4209; 4302; 4912; 5317
StyD4I	!CCNGG	25	88; 281; 794; 842; 938; 953; 1082; 1191; 1442; 1508; 2218; 2459; 4014; 4069; 4086; 4482; 4642; 4865; 5255; 5444; 5547; 6019; 6237; 6250; 6371
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	21	76; 198; 269; 543; 581; 678; 1901; 2183; 2208; 2215; 2550; 2838; 2985; 3571; 4860; 4976; 5084; 5407; 5898; 6368; 6439
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 980; 1256; 2583; 3543; 3555; 3598; 3708; 4599; 4786; 5567; 5700
TaqI	T!CGA	22	761; 788; 1256; 1338; 1351; 1493; 1631; 1667; 1758; 1783; 2684; 3629; 4320; 4593; 4749; 4773; 4809; 4971; 5162; 5207; 5462; 6300
TaqII	GACCGANNNNNNNNNN!	4	1618; 3500; 4517; 5185
TaqII	!NNNNNNNNNTCGGTC	1	5429
TaqII	CACCCANNNNNNNNNN!	2	751; 856
TaqII	!NNNNNNNNNTGGGTG	3	172; 4384; 4976
TasI	!AATT	21	18; 1320; 1779; 2057; 2249; 2320; 2690; 2707; 2774; 2843; 2949; 3104; 3230; 3294; 3372; 3398; 3409; 4056; 4128; 4220; 5638
TatI	W!GTACW	8	217; 297; 330; 381; 662; 1487; 2069; 2980
TauI	GCSG!C	25	770; 1082; 1377; 1380; 1394; 1403; 1416; 1440; 1568; 2243; 3800; 3814; 4252; 4391; 4454; 4549; 4714; 4717; 4956; 5052; 5093; 5221; 5575; 6203; 6358
TfiI	G!AWTC	12	749; 1226; 1726; 1938; 2044; 2313; 2620; 4965; 5099; 5209; 5246; 6424
TliI	C!TCGAG	1	1337

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TruI	T!TAA	22	7; 638; 863; 1319; 1736; 1922; 2000; 2990; 3181; 3242; 3363; 3384; 3395; 3407; 3418; 3435; 3533; 3804; 5623; 5637; 5642; 5694
Tru9I	T!TAA	22	7; 638; 863; 1319; 1736; 1922; 2000; 2990; 3181; 3242; 3363; 3384; 3395; 3407; 3418; 3435; 3533; 3804; 5623; 5637; 5642; 5694
TscAI	CASTGNN!	9	2220; 2481; 2673; 2925; 3326; 4609; 5719; 5990; 6003
TseI	G!CWGC	29	818; 962; 1260; 1388; 1458; 1505; 1533; 1536; 1659; 1701; 1771; 1792; 1888; 2412; 2851; 3031; 3256; 3775; 4440; 4541; 4583; 4624; 4717; 5104; 5557; 5783; 5989; 5992; 6057
TsoI	TARCCANNNNNNNNNN!	2	3452; 3799
TsoI	!NNNNNNNNNTGGYTA	3	787; 3257; 5009
Tsp45I	!GTSAC	8	900; 1542; 1813; 2544; 2865; 3769; 4600; 4906
Tsp509I	!AATT	21	18; 1320; 1779; 2057; 2249; 2320; 2690; 2707; 2774; 2843; 2949; 3104; 3230; 3294; 3372; 3398; 3409; 4056; 4128; 4220; 5638
TspDTI	ATGAANNNNNNNNNN!	10	670; 1781; 1925; 2003; 2036; 2209; 2447; 3238; 4539; 5243
TspDTI	!NNNNNNNNNTTCAT	8	26; 798; 819; 2080; 2252; 4957; 5413; 5620
TspEI	!AATT	21	18; 1320; 1779; 2057; 2249; 2320; 2690; 2707; 2774; 2843; 2949; 3104; 3230; 3294; 3372; 3398; 3409; 4056; 4128; 4220; 5638
TspGWI	ACGGANNNNNNNNNN!	3	1531; 1561; 5355
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	9	2220; 2481; 2673; 2925; 3326; 4609; 5719; 5990; 6003
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNCCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	4598
Tth111II	CAARCANNNNNNNNNN!	1	5807
Tth111II	!NNNNNNNNNTGYTTG	6	2292; 2323; 2666; 4915; 5775; 5814
UnbI	!GGNCC	14	82; 275; 768; 1011; 1103; 1124; 1401; 1640; 3586; 4995; 5440; 5486; 5544; 5577
Van9I	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	0	
VneI	G!TGCAC	2	699; 6084
VpaK11AI	!GWCC	2	4995; 5440
VpaK11BI	G!GWCC	2	4996; 5441
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	1	1957
XapI	R!AATY	5	2707; 2949; 3294; 3398; 3409
XbaI	T!CTAGA	2	2293; 3127
XceI	RCATG!Y	8	651; 1986; 2303; 2367; 4050; 4122; 4885; 6402
XcmI	CCANNNN!NNNTGG	1	2753
XhoI	C!TCGAG	1	1337
XhoII	R!GATCY	13	585; 1159; 1333; 1845; 3115; 3124; 4651; 4897; 5289; 5648; 5660; 5746; 5757
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	4302; 5317
XmiI	GT!MKAC	1	1199
XmnI	GAANN!NNTTC	2	2312; 2438
XspI	C!TAG	11	592; 1298; 2294; 2588; 3128; 3329; 3747; 4303; 5318; 5652; 5905
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	4052; 4124; 6455