

## pTagRFP-Cx43 vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2845; 3050
AarI	CACCTGCNNNN!	1	1388
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	3133; 4089; 5878
AatI	AGG!CCT	2	1945; 3883
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	3	1374; 1410; 2577
AccII	CG!CG	19	60; 781; 1370; 1539; 1932; 2711; 2986; 3362; 3382; 3406; 3437; 4128; 4429; 4867; 4951; 5014; 5083; 5356; 5937
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	4164
Acc36I	ACCTGCNNNN!	3	1388; 4330; 4780
Acc36I	!NNNNNNNNGCAGGT	1	3949
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	7	465; 813; 2051; 2111; 3215; 4061; 4096
AccB7I	CCANNNN!NTGG	1	2596
AccBSI	CCG!CTC	2	3486; 4675
AccBSI	GAG!CGG	3	2705; 3322; 4729
AceIII	CAGCTCNNNNNNN!	1	3018
AceIII	!NNNNNNNNNNGAGCTG	2	552; 1997
AciI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 879; 1717; 1930; 2310; 2448; 2550; 2709; 3377; 3380; 3394; 3484; 3732; 3744; 3753; 3765; 3775; 3786; 3832; 3971; 4034; 4536; 4581; 4647; 4673; 4798; 4801; 4949; 5081; 5388; 5532; 6028
AciI	G!CGG	31	370; 403; 528; 1269; 1370; 1602; 1970; 2145; 2457; 2499; 2705; 3322; 3349; 3437; 3547; 4128; 4192; 4293; 4296; 4576; 4631; 4729; 4867; 5014; 5154; 5397; 5642; 5763; 5782; 5909; 5937
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	10	1542; 1612; 1980; 3930; 4241; 4487; 4879; 5238; 5336; 5422
AcIWI	!NNNNNGATCC	9	580; 1385; 1550; 1967; 2532; 4306; 4850; 5237; 5334
AcoI	Y!GGCCR	6	2655; 2706; 3968; 4142; 4533; 4560
AcsI	R!AATY	4	629; 2876; 2980; 2991
AcuI	CTGAAGNNNNNNNNNNNNNNN!	4	1223; 2507; 4208; 4640
AcuI	!NNNNNNNNNNNNNNCTTCAG	3	733; 1046; 5438
AcvI	CAC!GTG	1	1045
AcyI	GR!CGYC	8	122; 175; 258; 444; 2574; 4062; 4764; 4843
AdeI	CACNNN!GTG	2	2647; 3178
AfaI	GT!AC	15	219; 244; 299; 332; 383; 540; 676; 1097; 1232; 1346; 1679; 2042; 2192; 2444; 4368
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	27	49; 823; 885; 931; 1099; 1405; 1941; 2108; 2221; 2387; 2453; 2596; 3074; 3400; 3792; 4043; 4587; 4868; 4900; 5032; 5067; 5117; 5149; 5502; 5781; 5947; 5965
AflIII	C!TTAAG	1	2944
AflIII	A!CRYGT	1	5980
AgeI	A!CCGGT	1	1978
AgsI	TTS!AA	14	1214; 1228; 1241; 1306; 1492; 1522; 1627; 2074; 2524; 3473; 3517; 3527; 3940; 5516
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	1	1427
AjiI	GAC!GTG	0	
AjnI	!CCWGG	21	88; 281; 930; 997; 1404; 1672; 1959; 2172; 2220; 2316; 2331; 2460; 3596; 3651; 3668; 4447; 5026; 5129; 5819; 5832; 5953
AjuI	GAANNNNNNTTGGNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNCCAANNNNNNNNTTC	0	
AjuI	CCAANNNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNNTTGG	0	
AleI	CACNN!NNGTG	1	1991
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	2	3636; 3708
AlfI	!NNNNNNNNNGCANNNNNNNTGC	2	3602; 3674
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	2	2398; 3144
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	2	2366; 3112
AluI	AG!CT	27	566; 618; 624; 850; 941; 953; 1138; 1159; 1362; 1504; 1684; 1736; 2011; 2038; 2184; 2491; 2841; 3008; 3265; 3560; 3848; 4168; 4626; 5423; 5680; 5726; 5816
AluBI	AG!CT	27	566; 618; 624; 850; 941; 953; 1138; 1159; 1362; 1504; 1684; 1736; 2011; 2038; 2184; 2491; 2841; 3008; 3265; 3560; 3848; 4168; 4626; 5423; 5680; 5726; 5816
AlwI	GGATCNNNN!	10	1542; 1612; 1980; 3930; 4241; 4487; 4879; 5238; 5336; 5422
AlwI	!NNNNNGATCC	9	580; 1385; 1550; 1967; 2532; 4306; 4850; 5237; 5334
Alw21I	GWGCW!C	9	620; 909; 1161; 1248; 1506; 2081; 4175; 4365; 5670
Alw26I	GTCTCN!	3	434; 1485; 1671
Alw26I	!NNNNNGAGAC	5	2618; 3486; 3904; 4923; 5051
Alw44I	G!TGCAC	2	2077; 5666
AlwNI	CAGNNN!CTG	3	2664; 5163; 5571
Ama87I	C!YCGRG	1	613
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	3	3630; 3702; 5164
ApaLI	G!TGCAC	2	2077; 5666
ApeKI	G!CWGC	23	636; 685; 1002; 1632; 1865; 1926; 1938; 2196; 2340; 2638; 2838; 3357; 4022; 4123; 4165; 4206; 4299; 4686; 5139; 5365; 5571; 5574; 5639
ApoI	R!AATY	4	629; 2876; 2980; 2991
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	4577
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	4371; 5024; 5862
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	4461
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	2172
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	2	1179; 3890
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	2	1617; 1649
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	3	682; 869; 1148
AquIV	!NNNNNNNNNNNNNNNNNNNCTTCCYC	3	1012; 1399; 4632
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGGCC	1	779
AseI	AT!TAAT	1	7
Asi256I	G!ATC	28	586; 610; 1066; 1391; 1535; 1556; 1605; 1973; 2362; 2512; 2538; 2720; 3900; 3904; 3923; 4234; 4312; 4393; 4402; 4480; 4856; 4872; 5231; 5243; 5321; 5329; 5340; 5415
AsiGI	A!CCGGT	1	1978
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	3	860; 1181; 4180
Asp700I	GAANN!NNTTC	1	1705
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3884; 4899
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	27	597; 781; 783; 1050; 1370; 1766; 1934; 3328; 3336; 3362; 3384; 3393; 3406; 3437; 4056; 4064; 4128; 4165; 4431; 4691; 4867; 4953; 5356; 5465; 5639; 5739; 5806
AspS9I	G!GNCC	19	83; 276; 862; 1057; 1102; 1168; 1577; 1900; 2147; 2390; 2482; 2503; 2587; 3169; 4578; 5023; 5069; 5127; 5160
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 4744
AsuC2I	CC!SGG	5	2571; 4066; 4226; 4839; 5603
AsuHPI	GGTGANNNNNNN!	8	376; 839; 971; 1267; 1706; 2383; 5133; 5249

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AsuHPI	!NNNNNNNTCACC	4	1632; 2272; 3179; 4240
AsuNHI	G!CTAGC	2	591; 1736
AvaI	C!YCGRG	1	613
AvaII	G!GWCC	6	862; 1057; 1900; 2587; 4578; 5023
AviII	TGC!GCA	1	4164
AvrII	C!CTAGG	2	3884; 4899
AxyI	CC!TNAGG	3	2256; 3542; 5174
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	9	818; 1086; 2054; 2081; 2114; 2691; 4008; 4101; 5670
BalI	TGG!CCA	2	2657; 4144
BamHI	G!GATCC	1	1972
BanI	G!GYRCC	7	465; 813; 2051; 2111; 3215; 4061; 4096
BanII	GRGCY!C	7	620; 1161; 1506; 1589; 3253; 4427; 5137
BanIII	AT!CGAT	1	3902
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	1246
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNNNTAC	1	1214
BasI	CCANNNN!NTGG	1	2596
BauI	C!ACGAG	3	2642; 4780; 5807
BauI	C!TCGTG	3	1711; 2492; 4654
BbeI	GGCG!C	1	4065
Bbr7I	GAAGACNNNNNN!	1	2303
Bbr7I	!NNNNNNNNNNNGTCTTC	2	1301; 1502
BbrPI	CAC!GTG	1	1045
BbsI	GAAGACNN!	1	2298
BbsI	!NNNNNGTCTTC	2	1306; 1507
BbuI	GCATG!C	3	3632; 3704; 4467
BbvI	GCAGCNNNNNN!	11	648; 697; 1938; 2208; 2650; 2850; 4135; 4177; 4698; 5151; 5651
BbvI	!NNNNNNNNNNNGCTGC	10	989; 1619; 1852; 2327; 3344; 4009; 4193; 4286; 5352; 5558
Bbv12I	GWGCW!C	9	620; 909; 1161; 1248; 1506; 2081; 4175; 4365; 5670
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	10	1043; 1451; 1597; 1808; 1901; 2389; 3192; 3756; 4282; 4784
BccI	!NNNNNGATGG	3	3160; 3940; 4368
BceAI	ACGGCNNNNNNNNNN!	8	1264; 1662; 2209; 2353; 2404; 2470; 4488; 4975
BceAI	!NNNNNNNNNNNGCCGT	4	1807; 3203; 4021; 5480
BceFI	ACGGCNNNNNNNNNN!	8	1264; 1662; 2209; 2353; 2404; 2470; 4488; 4975
BceFI	!NNNNNNNNNNNGCCGT	4	1808; 3204; 4022; 5481
BcgI	CGANNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3491; 4281; 5782
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	5	2571; 4066; 4226; 4839; 5603
BcuI	A!CTAGT	0	
BdaI	TGANNNNNTCANNNNNNNNNN!	1	5915
BdaI	!NNNNNNNNNTGANNNNNNNTCA	1	5881
BfaI	C!TAG	10	592; 1737; 2676; 2717; 2911; 3329; 3885; 4900; 5234; 5487
BfiI	ACTGGGNNNN!	3	1759; 2693; 4011
BfiI	!NNNNCCCAGT	2	289; 3763
BfmI	C!TRYAG	4	1759; 3397; 5524; 5715
BfoI	RGCG!Y	5	598; 3329; 3337; 4065; 5740
BfrI	C!TTAAG	1	2944
BfuI	GTATCCNNNNNN!	3	3491; 4281; 5782
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	3	1388; 4330; 4780
BfuAI	!NNNNNNNNGCAGGT	1	3949

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BfuCI	!GATC	28	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2361; 2511; 2537; 2719; 3899; 3903; 3922; 4233; 4311; 4392; 4401; 4479; 4855; 4871; 5230; 5242; 5320; 5328; 5339; 5414
BglI	GCCNNNN!NGGC	5	90; 212; 283; 2466; 3837
BglII	A!GATCT	1	609
BisI	GC!NGC	44	637; 686; 1003; 1270; 1633; 1717; 1866; 1927; 1930; 1939; 2146; 2197; 2341; 2458; 2639; 2706; 2709; 2839; 3358; 3380; 3394; 3832; 3971; 4023; 4034; 4124; 4129; 4166; 4207; 4294; 4300; 4536; 4632; 4673; 4687; 4801; 5140; 5155; 5366; 5572; 5575; 5640; 5783; 5938
BlnI	C!CTAGG	2	3884; 4899
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	44	638; 687; 1004; 1271; 1634; 1718; 1867; 1928; 1931; 1940; 2147; 2198; 2342; 2459; 2640; 2707; 2710; 2840; 3359; 3381; 3395; 3833; 3972; 4024; 4035; 4125; 4130; 4167; 4208; 4295; 4301; 4537; 4633; 4674; 4688; 4802; 5141; 5156; 5367; 5573; 5576; 5641; 5784; 5939
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	6	862; 1057; 1900; 2587; 4578; 5023
Bme1390I	CC!NGG	26	90; 283; 932; 999; 1406; 1674; 1961; 2174; 2222; 2318; 2333; 2462; 2571; 3598; 3653; 3670; 4066; 4226; 4449; 4839; 5028; 5131; 5603; 5821; 5834; 5955
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	1	613
BmgBI	CAC!GTC	1	1427
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	19	84; 277; 863; 1058; 1103; 1169; 1578; 1901; 2148; 2391; 2483; 2504; 2588; 3170; 4579; 5024; 5070; 5128; 5161
BmiI	GGN!NCC	21	467; 815; 1058; 1650; 1974; 2053; 2113; 2504; 3217; 3238; 3250; 3441; 3602; 3674; 4063; 4098; 4946; 5025; 5070; 5913; 5952
BmrI	ACTGGGNNNNN!	3	1759; 2693; 4011
BmrI	!NNNNCCCAGT	2	289; 3763
BmrFI	CC!NGG	26	90; 283; 932; 999; 1406; 1674; 1961; 2174; 2222; 2318; 2333; 2462; 2571; 3598; 3653; 3670; 4066; 4226; 4449; 4839; 5028; 5131; 5603; 5821; 5834; 5955
BmsI	GCATCNNNNN!	8	1305; 2235; 2878; 3641; 3713; 4361; 4425; 4700
BmsI	!NNNNNNNNNGATGC	9	357; 1185; 2388; 2427; 2556; 4020; 4275; 4491; 5883
BmtI	GCTAG!C	2	595; 1740
BmuI	ACTGGGNNNNN!	3	1759; 2693; 4011
BmuI	!NNNNCCCAGT	2	289; 3763
BoxI	GACNN!NNGTC	1	2630
BpiI	GAAGACNN!	1	2298
BpiI	!NNNNNNGTCTTC	2	1306; 1507
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3851; 4750
BpI	!NNNNNNNNGAGNNNNNCTC	2	3819; 4718
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	4	853; 903; 1982; 4902
BpmI	!NNNNNNNNNNNNNNNCTCCAG	3	1865; 2315; 4845
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 4744
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	2298
BpuAI	!NNNNNNGTCTTC	2	1306; 1507
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	1384; 5356; 5895
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	4	604; 2546; 4438; 5597
BpuMI	CC!SGG	5	2571; 4066; 4226; 4839; 5603
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	2618; 5051
Bsa29I	AT!CGAT	1	3902
BsaAI	YAC!GTR	4	340; 1045; 3178; 4366
BsaBI	GATNN!NNATC	3	1214; 2724; 3921
BsaHI	GR!CGYC	8	122; 175; 258; 444; 2574; 4062; 4764; 4843
BsaJI	C!CNNGG	27	360; 757; 840; 931; 1431; 1473; 1673; 1946; 1989; 2085; 2220; 2221; 2316; 3596; 3668; 3791; 3826; 3835; 3884; 4225; 4494; 4899; 5026; 5027; 5129; 5130; 5820

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BsaMI	GAATGCN!	2	1855; 2813
BsaMI	G!CATTC	1	2906
BsaWI	W!CCGGW	6	600; 1978; 4093; 4937; 5627; 5774
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	1893; 3142
BsaXI	!NNNNNNNGGAGNNNNNGT	1	876
BsaXI	GGAGNNNNGTNNNNNNNNNN!	1	906
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	1863; 3112
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	1	2454
BsbI	!NNNNNNNNNNNNNNNNNGTGTTG	2	3063; 4970
Bsc4I	CCNNNNN!NNGG	27	49; 823; 885; 931; 1099; 1405; 1941; 2108; 2221; 2387; 2453; 2596; 3074; 3400; 3792; 4043; 4587; 4868; 4900; 5032; 5067; 5117; 5149; 5502; 5781; 5947; 5965
BscAI	GCATCNNNN!	8	1304; 2234; 2877; 3640; 3712; 4360; 4424; 4699
BscAI	!NNNNNNGATGC	9	360; 1188; 2391; 2430; 2559; 4023; 4278; 4494; 5886
BseI	ACTGGN!	9	836; 1579; 1696; 1754; 2601; 2688; 4006; 4207; 5453
BseI	C!CAGT	6	295; 1339; 3091; 3769; 5565; 5578
Bse8I	GATNN!NNATC	3	1214; 2724; 3921
Bse2II	CC!TNAGG	3	2256; 3542; 5174
Bse118I	R!CCGGY	6	783; 1978; 3279; 4381; 4562; 4845
BseAI	T!CCGGA	0	
BseBI	CC!WGG	21	90; 283; 932; 999; 1406; 1674; 1961; 2174; 2222; 2318; 2333; 2462; 3598; 3653; 3670; 4449; 5028; 5131; 5821; 5834; 5955
BseCI	AT!CGAT	1	3902
BseDI	C!CNNGG	27	360; 757; 840; 931; 1431; 1473; 1673; 1946; 1989; 2085; 2220; 2221; 2316; 3596; 3668; 3791; 3826; 3835; 3884; 4225; 4494; 4899; 5026; 5027; 5129; 5130; 5820
Bse3DI	GCAATGNN!	1	4295
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	4	3922; 4379; 4404; 4858
BseGI	!CATCC	7	1296; 1335; 2081; 2169; 2226; 2381; 3748
BseJI	GATNN!NNATC	3	1214; 2724; 3921
BseLI	CCNNNNN!NNGG	27	49; 823; 885; 931; 1099; 1405; 1941; 2108; 2221; 2387; 2453; 2596; 3074; 3400; 3792; 4043; 4587; 4868; 4900; 5032; 5067; 5117; 5149; 5502; 5781; 5947; 5965
BseMI	GCAATGNN!	1	4295
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	620; 5188
BseMII	!NNNNNNNNNCTGAG	9	708; 1268; 1574; 2247; 3533; 3835; 4716; 5288; 5697
BseNI	ACTGGN!	9	836; 1579; 1696; 1754; 2601; 2688; 4006; 4207; 5453
BseNI	C!CAGT	6	295; 1339; 3091; 3769; 5565; 5578
BsePI	G!CGCGC	1	779
BseRI	GAGGAGNNNNNNNNNN!	2	1169; 3880
BseRI	!NNNNNNNNNCTCCTC	2	1627; 1659
BseSI	GKGC!C	9	818; 1086; 2054; 2081; 2114; 2691; 4008; 4101; 5670
BseXI	GCAGCNNNNNNNN!	11	648; 697; 1938; 2208; 2650; 2850; 4135; 4177; 4698; 5151; 5651
BseXI	!NNNNNNNNNNNGCTGC	10	989; 1619; 1852; 2327; 3344; 4009; 4193; 4286; 5352; 5558
BseX3I	C!GGCCG	2	2706; 3968
BseYI	C!CCAGC	4	1818; 3605; 3677; 5676
BseYI	G!CTGGG	2	2418; 4566
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	19	60; 781; 1370; 1539; 1932; 2711; 2986; 3362; 3382; 3406; 3437; 4128; 4429; 4867; 4951; 5014; 5083; 5356; 5937
Bsh1285I	CGRY!CG	4	1983; 2709; 3971; 5646
BshFI	GG!CC	35	84; 277; 1103; 1169; 1325; 1578; 1790; 1945; 1951; 2148; 2391; 2426; 2460; 2483; 2505; 2615; 2657; 2708; 3028; 3170; 3825; 3831; 3840; 3883; 3970; 4144; 4535; 4562; 5071; 5128; 5161; 5506; 5940; 5958; 5969
BshNI	G!GYRCC	7	465; 813; 2051; 2111; 3215; 4061; 4096
BshTI	A!CCGGT	1	1978
BshVI	AT!CGAT	1	3902
BsiEI	CGRY!CG	4	1983; 2709; 3971; 5646
BsiHKAI	GWGCW!C	9	620; 909; 1161; 1248; 1506; 2081; 4175; 4365; 5670
BsiHKCI	C!YCGRG	1	613

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsiSI	C!CGG	21	601; 784; 1791; 1979; 2571; 3280; 3967; 4044; 4066; 4094; 4225; 4315; 4382; 4563; 4838; 4846; 4938; 5412; 5602; 5628; 5775
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	27	49; 823; 885; 931; 1099; 1405; 1941; 2108; 2221; 2387; 2453; 2596; 3074; 3400; 3792; 4043; 4587; 4868; 4900; 5032; 5067; 5117; 5149; 5502; 5781; 5947; 5965
BsIF1	GGGACNNNNNNNNNN!	7	175; 326; 494; 949; 4213; 4745; 4854
BsIF1	!NNNNNNNNNNNNNGTCCC	5	1413; 3578; 3650; 3714; 5009
BsmI	GAATGCN!	2	1855; 2813
BsmI	G!CATTC	1	2906
BsmAI	GTCTCN!	3	434; 1485; 1671
BsmAI	!NNNNNGAGAC	5	2618; 3486; 3904; 4923; 5051
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	7	175; 326; 494; 949; 4213; 4745; 4854
BsmFI	!NNNNNNNNNNNNNGTCCC	5	1413; 3578; 3650; 3714; 5009
BsnI	GG!CC	35	84; 277; 1103; 1169; 1325; 1578; 1790; 1945; 1951; 2148; 2391; 2426; 2460; 2483; 2505; 2615; 2657; 2708; 3028; 3170; 3825; 3831; 3840; 3883; 3970; 4144; 4535; 4562; 5071; 5128; 5161; 5506; 5940; 5958; 5969
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	2618; 5051
BsoBI	C!YCGRG	1	613
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 1989; 3791; 4494
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	2	289; 4865
Bsp24I	!NNNNNNCCANNNNNNNGTC	2	5286; 5464
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	5318; 5496
Bsp24I	!NNNNNNNGACNNNNNTGG	2	257; 4833
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 4744
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	28	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2361; 2511; 2537; 2719; 3899; 3903; 3922; 4233; 4311; 4392; 4401; 4479; 4855; 4871; 5230; 5242; 5320; 5328; 5339; 5414
Bsp1286I	GDGCH!C	20	620; 818; 909; 1086; 1161; 1248; 1506; 1589; 2054; 2081; 2114; 2691; 3253; 4008; 4101; 4175; 4365; 4427; 5137; 5670
Bsp1407I	T!GTACA	1	2040
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 879; 1717; 1930; 2310; 2448; 2550; 2709; 3377; 3380; 3394; 3484; 3732; 3744; 3753; 3765; 3775; 3786; 3832; 3971; 4034; 4536; 4581; 4647; 4673; 4798; 4801; 4949; 5081; 5388; 5532; 6028
BspACI	G!CGG	31	370; 403; 528; 1269; 1370; 1602; 1970; 2145; 2457; 2499; 2705; 3322; 3349; 3437; 3547; 4128; 4192; 4293; 4296; 4576; 4631; 4729; 4867; 5014; 5154; 5397; 5642; 5763; 5782; 5909; 5937
BspCNI	CTCAGNNNNNNNN!	2	619; 5187
BspCNI	!NNNNNNCTGAG	9	709; 1269; 1575; 2248; 3534; 3836; 4717; 5289; 5698
BspDI	AT!CGAT	1	3902
BspD6I	GACTCNNNN!	6	418; 612; 2721; 3135; 4741; 5618
BspD6I	!NNNNNGAGTC	4	940; 2270; 3098; 3530
BspEI	T!CCGGA	0	
BspFNI	CG!CG	19	60; 781; 1370; 1539; 1932; 2711; 2986; 3362; 3382; 3406; 3437; 4128; 4429; 4867; 4951; 5014; 5083; 5356; 5937
BspHI	T!CATGA	2	3488; 5260
BspLI	GGN!NCC	21	467; 815; 1058; 1650; 1974; 2053; 2113; 2504; 3217; 3238; 3250; 3441; 3602; 3674; 4063; 4098; 4946; 5025; 5070; 5913; 5952
BspMI	ACCTGCNNNN!	3	1388; 4330; 4780
BspMI	!NNNNNNNGCAGGT	1	3949
BspOI	GCTAG!C	2	595; 1740
BspPI	GGATCNNNN!	10	1542; 1612; 1980; 3930; 4241; 4487; 4879; 5238; 5336; 5422
BspPI	!NNNNNGATCC	9	580; 1385; 1550; 1967; 2532; 4306; 4850; 5237; 5334
BspQI	GCTCTCN!	2	914; 1511
BspQI	!NNNNGAAGAGC	4	1236; 2001; 4406; 4616

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspTI	C!TTAAG	1	2944
BspT104I	TT!CGAA	2	627; 4744
BspT107I	G!GYRCC	7	465; 813; 2051; 2111; 3215; 4061; 4096
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	2618; 5051
BsrI	ACTGGN!	9	836; 1579; 1696; 1754; 2601; 2688; 4006; 4207; 5453
BsrI	C!CAGT	6	295; 1339; 3091; 3769; 5565; 5578
BsrBI	CCG!CTC	2	3486; 4675
BsrBI	GAG!CGG	3	2705; 3322; 4729
BsrDI	GCAATGNN!	1	4295
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	6	783; 1978; 3279; 4381; 4562; 4845
BsrGI	T!GTACA	1	2040
BsrSI	ACTGGN!	9	836; 1579; 1696; 1754; 2601; 2688; 4006; 4207; 5453
BsrSI	C!CAGT	6	295; 1339; 3091; 3769; 5565; 5578
BssAI	R!CCGGY	6	783; 1978; 3279; 4381; 4562; 4845
BssECI	C!CNNGG	27	360; 757; 840; 931; 1431; 1473; 1673; 1946; 1989; 2085; 2220; 2221; 2316; 3596; 3668; 3791; 3826; 3835; 3884; 4225; 4494; 4899; 5026; 5027; 5129; 5130; 5820
BssHII	G!CGCGC	1	779
BssKI	!CCNGG	26	88; 281; 930; 997; 1404; 1672; 1959; 2172; 2220; 2316; 2331; 2460; 2569; 3596; 3651; 3668; 4064; 4224; 4447; 4837; 5026; 5129; 5601; 5819; 5832; 5953
BssMI	!GATC	28	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2361; 2511; 2537; 2719; 3899; 3903; 3922; 4233; 4311; 4392; 4401; 4479; 4855; 4871; 5230; 5242; 5320; 5328; 5339; 5414
BssNI	GR!CGYC	8	122; 175; 258; 444; 2574; 4062; 4764; 4843
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	2642; 4780; 5807
BssSI	C!TCGTG	3	1711; 2492; 4654
BssT1I	C!CWVWGG	9	360; 757; 840; 1473; 1989; 3791; 3884; 4494; 4899
Bst6I	CTCTTCN!	3	914; 1307; 1511
Bst6I	!NNNNGAAGAG	7	1125; 1146; 1236; 2001; 3529; 4406; 4616
Bst98I	C!TTAAG	1	2944
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	8	122; 175; 258; 444; 2574; 4062; 4764; 4843
BstAFI	C!TTAAG	1	2944
BstAPI	GCANNNN!NTGC	3	3629; 3701; 5163
BstAUI	T!GTACA	1	2040
BstBI	TT!CGAA	2	627; 4744
Bst2BI	C!ACGAG	3	2642; 4780; 5807
Bst2BI	C!TCGTG	3	1711; 2492; 4654
BstBAI	YAC!GTR	4	340; 1045; 3178; 4366
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 969; 2056; 3153; 4442; 4558; 4666; 4989; 5480; 5950; 6021
BstC8I	GCN!NGC	39	86; 279; 593; 781; 785; 1274; 1738; 1742; 1788; 1815; 1924; 1936; 1943; 2099; 2303; 3281; 3324; 3338; 3611; 3630; 3683; 3702; 3956; 4142; 4361; 4427; 4433; 4461; 4465; 4510; 4564; 4847; 5034; 5081; 5137; 5159; 5370; 5930; 5967
BstDEI	C!TNAG	13	606; 717; 1277; 1583; 1998; 2256; 2553; 3542; 3844; 4725; 5174; 5297; 5706
BstDSI	C!CRYGG	5	360; 1431; 1989; 3791; 4494
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	0	
BstF5I	GGATGNN!	4	3922; 4379; 4404; 4858
BstF5I	!CATCC	7	1296; 1335; 2081; 2169; 2226; 2381; 3748
BstFNI	CG!CG	19	60; 781; 1370; 1539; 1932; 2711; 2986; 3362; 3382; 3406; 3437; 4128; 4429; 4867; 4951; 5014; 5083; 5356; 5937
BstH2I	RGCGC!Y	5	598; 3329; 3337; 4065; 5740
BstHHI	GCG!C	27	597; 781; 783; 1050; 1370; 1766; 1934; 3328; 3336; 3362; 3384; 3393; 3406; 3437; 4056; 4064; 4128; 4165; 4431; 4691; 4867; 4953; 5356; 5465; 5639; 5739; 5806
BstKTI	GAT!C	28	588; 612; 1068; 1393; 1537; 1558; 1607; 1975; 2364; 2514; 2540; 2722; 3902; 3906; 3925; 4236; 4314; 4395; 4404; 4482; 4858; 4874; 5233; 5245; 5323; 5331; 5342; 5417
BstMAI	GTCTCN!	3	434; 1485; 1671
BstMAI	!NNNNNGAGAC	5	2618; 3486; 3904; 4923; 5051

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstMBI	!GATC	28	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2361; 2511; 2537; 2719; 3899; 3903; 3922; 4233; 4311; 4392; 4401; 4479; 4855; 4871; 5230; 5242; 5320; 5328; 5339; 5414
BstMCI	CGRY!CG	4	1983; 2709; 3971; 5646
BstMWI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 904; 1204; 1584; 1819; 1923; 1935; 2035; 2466; 3289; 3319; 3346; 3388; 3629; 3701; 3752; 3831; 4053; 4137; 4160; 4299; 4422; 4505; 4772; 4959; 5163; 5362; 5934
BstNI	CC!WGG	21	90; 283; 932; 999; 1406; 1674; 1961; 2174; 2222; 2318; 2333; 2462; 3598; 3653; 3670; 4449; 5028; 5131; 5821; 5834; 5955
BstNSI	RCATG!Y	5	2029; 3632; 3704; 4467; 5984
BstOI	CC!WGG	21	90; 283; 932; 999; 1406; 1674; 1961; 2174; 2222; 2318; 2333; 2462; 3598; 3653; 3670; 4449; 5028; 5131; 5821; 5834; 5955
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	2630
BstSCI	!CCNGG	26	88; 281; 930; 997; 1404; 1672; 1959; 2172; 2220; 2316; 2331; 2460; 2569; 3596; 3651; 3668; 4064; 4224; 4447; 4837; 5026; 5129; 5601; 5819; 5832; 5953
BstSFI	C!TRYAG	4	1759; 3397; 5524; 5715
BstSLI	GKGC!C	9	818; 1086; 2054; 2081; 2114; 2691; 4008; 4101; 5670
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	19	60; 781; 1370; 1539; 1932; 2711; 2986; 3362; 3382; 3406; 3437; 4128; 4429; 4867; 4951; 5014; 5083; 5356; 5937
Bst2UI	CC!WGG	21	90; 283; 932; 999; 1406; 1674; 1961; 2174; 2222; 2318; 2333; 2462; 3598; 3653; 3670; 4449; 5028; 5131; 5821; 5834; 5955
BstV1I	GCAGC!NNNNNNN!	11	648; 697; 1938; 2208; 2650; 2850; 4135; 4177; 4698; 5151; 5651
BstV1I	!NNNNNNNNNNNGCTGC	10	989; 1619; 1852; 2327; 3344; 4009; 4193; 4286; 5352; 5558
BstV2I	GAAGACNN!	1	2298
BstV2I	!NNNNNNGTCTTC	2	1306; 1507
BstXI	CCANNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 609; 1390; 1604; 1972; 2537; 4233; 4479; 4871; 5230; 5242; 5328; 5339
BstYI	R!GATCY	13	585; 609; 1390; 1604; 1972; 2537; 4233; 4479; 4871; 5230; 5242; 5328; 5339
BstZI	C!GGCCG	2	2706; 3968
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNN!	3	3491; 4281; 5782
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3902
Bsu36I	CC!TNAGG	3	2256; 3542; 5174
BsuRI	GG!CC	35	84; 277; 1103; 1169; 1325; 1578; 1790; 1945; 1951; 2148; 2391; 2426; 2460; 2483; 2505; 2615; 2657; 2708; 3028; 3170; 3825; 3831; 3840; 3883; 3970; 4144; 4535; 4562; 5071; 5128; 5161; 5506; 5940; 5958; 5969
BsuTUI	AT!CGAT	1	3902
BtgI	C!CRYGG	5	360; 1431; 1989; 3791; 4494
BtgZI	GCGATGNNNNNNNNN!	2	3179; 4514
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 4333; 4677
BthCI	GCNG!C	44	639; 688; 1005; 1272; 1635; 1719; 1868; 1929; 1932; 1941; 2148; 2199; 2343; 2460; 2641; 2708; 2711; 2841; 3360; 3382; 3396; 3834; 3973; 4025; 4036; 4126; 4131; 4168; 4209; 4296; 4302; 4538; 4634; 4675; 4689; 4803; 5142; 5157; 5368; 5574; 5577; 5642; 5785; 5940
BtrI	CAC!GTC	1	1427
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2901
BtsCI	GGATGNN!	4	3922; 4379; 4404; 4858
BtsCI	!CATCC	7	1296; 1335; 2081; 2169; 2226; 2381; 3748
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	3	1388; 4330; 4780
BveI	!NNNNNNNNGCAGGT	1	3949
Cac8I	GCN!NGC	39	86; 279; 593; 781; 785; 1274; 1738; 1742; 1788; 1815; 1924; 1936; 1943; 2099; 2303; 3281; 3324; 3338; 3611; 3630; 3683; 3702; 3956; 4142; 4361; 4427; 4433; 4461; 4465; 4510; 4564; 4847; 5034; 5081; 5137; 5159; 5370; 5930; 5967
CaiI	CAGNNN!CTG	3	2664; 5163; 5571



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CciI	T!CATGA	2	3488; 5260
CciNI	GC!GGCCGC	1	2706
CdiI	CATC!G	6	352; 1897; 4351; 4356; 4554; 4695
CdiI	C!GATG	2	3165; 4500
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5934
CdpI	!NNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3723; 3765
CelII	GC!TNAGC	0	
CfoI	GCG!C	27	597; 781; 783; 1050; 1370; 1766; 1934; 3328; 3336; 3362; 3384; 3393; 3406; 3437; 4056; 4064; 4128; 4165; 4431; 4691; 4867; 4953; 5356; 5465; 5639; 5739; 5806
CfrI	Y!GGCCR	6	2655; 2706; 3968; 4142; 4533; 4560
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	6	783; 1978; 3279; 4381; 4562; 4845
Cfr13I	G!GNCC	19	83; 276; 862; 1057; 1102; 1168; 1577; 1900; 2147; 2390; 2482; 2503; 2587; 3169; 4578; 5023; 5069; 5127; 5160
Cfr42I	CCG!GG	0	
ChaI	GATC!	28	589; 613; 1069; 1394; 1538; 1559; 1608; 1976; 2365; 2515; 2541; 2723; 3903; 3907; 3926; 4237; 4315; 4396; 4405; 4483; 4859; 4875; 5234; 5246; 5324; 5332; 5343; 5418
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	5	2093; 3879; 5319; 5419; 5497
CjeI	!NNNNNNNNNACNNNNNNNTGG	8	64; 257; 759; 3546; 3641; 4833; 5383; 5938
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	8	98; 291; 793; 3580; 3675; 4867; 5417; 5972
CjeI	!NNNNNNNNCCANNNNNNGT	5	2059; 3845; 5285; 5385; 5463
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	4	890; 1911; 5319; 5497
CjePI	!NNNNNNNNNGANNNNNNNNTGG	7	257; 938; 1733; 2118; 2463; 4833; 5432
CjePI	GANNNNNNNNTGGNNNNNNNNNNNNNN!	7	290; 971; 1766; 2151; 2496; 4866; 5465
CjePI	!NNNNNNNNCCANNNNNNNNTC	4	857; 1878; 5286; 5464
Clal	AT!CGAT	1	3902
CpoI	CG!GWCCG	1	4578
CseI	GACGCNNNNN!	3	526; 4772; 4851
CseI	!NNNNNNNNNNNGCGTC	4	2563; 3395; 5290; 5868
CsiI	A!CCWGGT	2	1404; 3651
CspI	CG!GWCCG	1	4578
Csp6I	G!TAC	15	218; 243; 298; 331; 382; 539; 675; 1096; 1231; 1345; 1678; 2041; 2191; 2443; 4367
Csp45I	TT!CGAA	2	627; 4744
CspAI	A!CCGGT	1	1978
CspCI	CAANNNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	1	756
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	1	791
CspCI	!NNNNNNNNNNCAANNNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	5	784; 2043; 2634; 3342; 4951
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	28	301; 361; 823; 1106; 1459; 1780; 1874; 1990; 2026; 2032; 2044; 2122; 2188; 2268; 2479; 3489; 3629; 3701; 3792; 3933; 4278; 4464; 4495; 4521; 4877; 5261; 5981; 6032
CviJI	RG!CY	124	42; 84; 93; 277; 566; 618; 624; 723; 753; 787; 850; 869; 898; 941; 953; 1002; 1103; 1138; 1159; 1169; 1272; 1325; 1362; 1504; 1578; 1587; 1632; 1649; 1684; 1736; 1790; 1822; 1885; 1892; 1922; 1929; 1945; 1951; 2011; 2038; 2101; 2148; 2177; 2184; 2262; 2328; 2340; 2391; 2418; 2426; 2460; 2483; 2491; 2505; 2615; 2651; 2657; 2708; 2731; 2841; 3008; 3028; 3170; 3251; 3265; 3279; 3560; 3601; 3673; 3796; 3825; 3831; 3840; 3848; 3871; 3883; 3889; 3970; 3987; 3995; 4022; 4047; 4131; 4140; 4144; 4168; 4206; 4282; 4299; 4318; 4381; 4425; 4435; 4452; 4535; 4562; 4566; 4603; 4626; 4642; 4822; 4849; 4910; 5032; 5071; 5128; 5135; 5142; 5161; 5172; 5423; 5452; 5495; 5506; 5571; 5650; 5675; 5680; 5726; 5816; 5914; 5940; 5958; 5969

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	124	42; 84; 93; 277; 566; 618; 624; 723; 753; 787; 850; 869; 898; 941; 953; 1002; 1103; 1138; 1159; 1169; 1272; 1325; 1362; 1504; 1578; 1587; 1632; 1649; 1684; 1736; 1790; 1822; 1885; 1892; 1922; 1929; 1945; 1951; 2011; 2038; 2101; 2148; 2177; 2184; 2262; 2328; 2340; 2391; 2418; 2426; 2460; 2483; 2491; 2505; 2615; 2651; 2657; 2708; 2731; 2841; 3008; 3028; 3170; 3251; 3265; 3279; 3560; 3601; 3673; 3796; 3825; 3831; 3840; 3848; 3871; 3883; 3889; 3970; 3987; 3995; 4022; 4047; 4131; 4140; 4144; 4168; 4206; 4282; 4299; 4318; 4381; 4425; 4435; 4452; 4535; 4562; 4566; 4603; 4626; 4642; 4822; 4849; 4910; 5032; 5071; 5128; 5135; 5142; 5161; 5172; 5423; 5452; 5495; 5506; 5571; 5650; 5675; 5680; 5726; 5816; 5914; 5940; 5958; 5969
CviQI	G!TAC	15	218; 243; 298; 331; 382; 539; 675; 1096; 1231; 1345; 1678; 2041; 2191; 2443; 4367
DdeI	C!TNAG	13	606; 717; 1277; 1583; 1998; 2256; 2553; 3542; 3844; 4725; 5174; 5297; 5706
DinI	GGC!GCC	1	4063
DpnI	GA!TC	28	587; 611; 1067; 1392; 1536; 1557; 1606; 1974; 2363; 2513; 2539; 2721; 3901; 3905; 3924; 4235; 4313; 4394; 4403; 4481; 4857; 4873; 5232; 5244; 5322; 5330; 5341; 5416
DpnII	!GATC	28	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2361; 2511; 2537; 2719; 3899; 3903; 3922; 4233; 4311; 4392; 4401; 4479; 4855; 4871; 5230; 5242; 5320; 5328; 5339; 5414
DraI	TTT!AAA	5	697; 704; 2764; 5206; 5225
DraII	RG!GNCCY	2	1057; 5160
DraIII	CACNNN!GTG	2	2647; 3178
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	3	266; 1254; 5542
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	2	1077; 1452
DrdI	GACNNN!NNGTC	3	3133; 4089; 5878
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	3133; 4089; 5878
EaeI	Y!GGCCR	6	2655; 2706; 3968; 4142; 4533; 4560
EagI	C!GGCCG	2	2706; 3968
Eam1104I	CTCTCN!	3	914; 1307; 1511
Eam1104I	!NNNNGAAGAG	7	1125; 1146; 1236; 2001; 3529; 4406; 4616
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	3	914; 1307; 1511
EarI	!NNNNGAAGAG	7	1125; 1146; 1236; 2001; 3529; 4406; 4616
EciI	GGCGGANNNNNNNNNNNN!	4	3562; 4591; 5778; 5924
EciI	!NNNNNNNNNTCCGCC	4	496; 3733; 3754; 3775
Ecl136II	GAG!CTC	3	618; 1159; 1504
EclXI	C!GGCCG	2	2706; 3968
Eco24I	GRGCY!C	7	620; 1161; 1506; 1589; 3253; 4427; 5137
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	2	2618; 5051
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	6	862; 1057; 1900; 2587; 4578; 5023
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	2706; 3968
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	1223; 2507; 4208; 4640
Eco57I	!NNNNNNNNNNNNNNNCTTCAG	3	733; 1046; 5438
Eco72I	CAC!GTG	1	1045
Eco81I	CC!TNAGG	3	2256; 3542; 5174
Eco88I	C!YCGRG	1	613
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWVGG	9	360; 757; 840; 1473; 1989; 3791; 3884; 4494; 4899
Eco147I	AGG!CCT	2	1945; 3883
EcoHI	!CCSGG	5	2569; 4064; 4224; 4837; 5601
EcoICRI	GAG!CTC	3	618; 1159; 1504
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	8	853; 903; 1223; 1982; 2507; 4208; 4640; 4902
Eco57MI	!NNNNNNNNNNNNNNNCTYCAG	6	733; 1046; 1865; 2315; 4845; 5438
EcoNI	CCTNN!NNNAGG	0	
Eco065I	G!GTNACC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EcoO109I	RG!GNCCY	2	1057; 5160
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	21	88; 281; 930; 997; 1404; 1672; 1959; 2172; 2220; 2316; 2331; 2460; 3596; 3651; 3668; 4447; 5026; 5129; 5819; 5832; 5953
EcoRV	GAT!ATC	0	
EcoT14I	C!CWVGG	9	360; 757; 840; 1473; 1989; 3791; 3884; 4494; 4899
EcoT22I	ATGCA!T	3	3634; 3706; 6037
EcoT38I	GRGCY!C	7	620; 1161; 1506; 1589; 3253; 4427; 5137
Eco53kI	GAG!CTC	3	618; 1159; 1504
EgeI	GGC!GCC	1	4063
EheI	GGC!GCC	1	4063
ErhI	C!CWVGG	9	360; 757; 840; 1473; 1989; 3791; 3884; 4494; 4899
EsaBC3I	TC!GA	18	615; 628; 1318; 1828; 2140; 2167; 2635; 3212; 3903; 4176; 4332; 4356; 4392; 4554; 4745; 4790; 5045; 5883
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNGAGACG	0	
FaeI	CATG!	28	304; 364; 826; 1109; 1462; 1783; 1877; 1993; 2029; 2035; 2047; 2125; 2191; 2271; 2482; 3492; 3632; 3704; 3795; 3936; 4281; 4467; 4498; 4524; 4880; 5264; 5984; 6035
FaiI	YA!TR	73	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 824; 914; 1020; 1070; 1107; 1116; 1353; 1460; 1664; 1781; 1875; 1991; 2027; 2033; 2045; 2123; 2189; 2269; 2287; 2480; 2533; 2583; 2724; 2734; 2800; 2845; 3050; 3478; 3490; 3621; 3630; 3693; 3702; 3726; 3793; 3817; 3934; 3998; 4279; 4304; 4465; 4496; 4522; 4594; 4810; 4878; 4956; 5008; 5169; 5186; 5188; 5190; 5262; 5540; 5729; 5845; 5918; 5982; 6033
FalI	AAGNNNNCTTNNNNNNNNNN!	4	1330; 1575; 2266; 4402
FalI	!NNNNNNNNAAGNNNNCTT	4	1298; 1543; 2234; 4370
FaqI	GGGACNNNNNNNN!	7	175; 326; 494; 949; 4213; 4745; 4854
FaqI	!NNNNNNNNNNNGTCCC	5	1413; 3578; 3650; 3714; 5009
FatI	!CATG	28	300; 360; 822; 1105; 1458; 1779; 1873; 1989; 2025; 2031; 2043; 2121; 2187; 2267; 2478; 3488; 3628; 3700; 3791; 3932; 4277; 4463; 4494; 4520; 4876; 5260; 5980; 6031
FauI	CCCGCNNNN!	10	93; 119; 286; 2455; 2557; 3384; 3739; 3760; 4956; 5088
FauI	!NNNNNGCGGG	6	2492; 3315; 4185; 4722; 4860; 5007
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	3	1374; 1410; 2577
FmuI	GGNC!C	19	86; 279; 865; 1060; 1105; 1171; 1580; 1903; 2150; 2393; 2485; 2506; 2590; 3172; 4581; 5026; 5072; 5130; 5163
Fnu4HI	GC!NGC	44	637; 686; 1003; 1270; 1633; 1717; 1866; 1927; 1930; 1939; 2146; 2197; 2341; 2458; 2639; 2706; 2709; 2839; 3358; 3380; 3394; 3832; 3971; 4023; 4034; 4124; 4129; 4166; 4207; 4294; 4300; 4536; 4632; 4673; 4687; 4801; 5140; 5155; 5366; 5572; 5575; 5640; 5783; 5938
FokI	GGATGNNNNNNNN!	4	3929; 4386; 4411; 4865
FokI	!NNNNNNNNNNNNCATCC	7	1283; 1322; 2068; 2156; 2213; 2368; 3735
FriOI	GRGCY!C	7	620; 1161; 1506; 1589; 3253; 4427; 5137
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	4164
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	10	592; 1737; 2676; 2717; 2911; 3329; 3885; 4900; 5234; 5487

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	CCNNNNNNNNNNNN!	198	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 691; 737; 754; 770; 797; 830; 853; 878; 892; 938; 988; 1011; 1042; 1073; 1098; 1117; 1183; 1214; 1297; 1313; 1339; 1393; 1407; 1433; 1456; 1486; 1572; 1592; 1623; 1651; 1665; 1683; 1723; 1804; 1819; 1836; 1859; 1895; 1916; 1936; 1959; 1973; 1989; 2068; 2098; 2115; 2129; 2162; 2176; 2194; 2218; 2233; 2263; 2296; 2323; 2338; 2357; 2393; 2440; 2459; 2474; 2497; 2519; 2542; 2562; 2583; 2603; 2629; 2671; 2687; 2722; 2745; 2784; 2798; 2939; 3034; 3058; 3081; 3104; 3122; 3144; 3165; 3184; 3203; 3232; 3253; 3267; 3293; 3381; 3407; 3456; 3497; 3515; 3554; 3570; 3608; 3665; 3680; 3737; 3757; 3771; 3788; 3802; 3839; 3854; 3897; 3980; 4047; 4078; 4098; 4113; 4158; 4172; 4238; 4252; 4271; 4287; 4328; 4348; 4395; 4445; 4461; 4481; 4506; 4526; 4549; 4576; 4594; 4620; 4660; 4686; 4710; 4766; 4780; 4808; 4851; 4872; 4907; 4951; 5039; 5063; 5085; 5105; 5121; 5142; 5156; 5175; 5259; 5279; 5307; 5322; 5356; 5398; 5425; 5440; 5485; 5509; 5523; 5545; 5571; 5591; 5615; 5641; 5689; 5708; 5727; 5753; 5788; 5833; 5863; 5877; 5928; 5942; 5967; 5983; 6004; 6033
FspEI	!NNNNNNNNNNNNNNNGG	167	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 618; 638; 697; 744; 769; 796; 817; 839; 867; 917; 940; 984; 1039; 1085; 1108; 1139; 1164; 1218; 1238; 1304; 1327; 1355; 1391; 1418; 1448; 1508; 1529; 1560; 1587; 1614; 1659; 1677; 1735; 1766; 1854; 1883; 1927; 1946; 1964; 1985; 2003; 2030; 2072; 2093; 2117; 2159; 2178; 2207; 2243; 2280; 2303; 2322; 2352; 2373; 2400; 2439; 2465; 2484; 2556; 2582; 2630; 2669; 2690; 2733; 2833; 2902; 2932; 3010; 3059; 3081; 3109; 3145; 3190; 3219; 3255; 3274; 3302; 3322; 3385; 3408; 3516; 3548; 3566; 3595; 3638; 3667; 3778; 3807; 3850; 3871; 3899; 3932; 3952; 3977; 4004; 4029; 4051; 4079; 4105; 4126; 4177; 4198; 4216; 4264; 4300; 4356; 4381; 4405; 4434; 4457; 4481; 4507; 4529; 4548; 4573; 4613; 4649; 4714; 4799; 4823; 4852; 4886; 4907; 4927; 4972; 4999; 5018; 5051; 5103; 5134; 5161; 5213; 5311; 5382; 5427; 5488; 5553; 5587; 5613; 5631; 5667; 5737; 5760; 5782; 5806; 5839; 5887; 5922; 5940; 5997
Fsp4HI	GC!NGC	44	637; 686; 1003; 1270; 1633; 1717; 1866; 1927; 1930; 1939; 2146; 2197; 2341; 2458; 2639; 2706; 2709; 2839; 3358; 3380; 3394; 3832; 3971; 4023; 4034; 4124; 4129; 4166; 4207; 4294; 4300; 4536; 4632; 4673; 4687; 4801; 5140; 5155; 5366; 5572; 5575; 5640; 5783; 5938
GdiII	C!GGCCR	2	2706; 3968
GdiII	Y!GGCCG	4	2706; 3968; 4533; 4560
GlaI	GC!GC	27	596; 780; 782; 1049; 1369; 1765; 1933; 3327; 3335; 3361; 3383; 3392; 3405; 3436; 4055; 4063; 4127; 4164; 4430; 4690; 4866; 4952; 5355; 5464; 5638; 5738; 5805
GluI	GC!NGC	44	637; 686; 1003; 1270; 1633; 1717; 1866; 1927; 1930; 1939; 2146; 2197; 2341; 2458; 2639; 2706; 2709; 2839; 3358; 3380; 3394; 3832; 3971; 4023; 4034; 4124; 4129; 4166; 4207; 4294; 4300; 4536; 4632; 4673; 4687; 4801; 5140; 5155; 5366; 5572; 5575; 5640; 5783; 5938
GsaI	CCCAG!C	4	1822; 3609; 3681; 5680
GsaI	GCTGG!G	2	2422; 4570
GsuI	CTGGAGNNNNNNNNNNNNNN!	4	853; 903; 1982; 4902
GsuI	!NNNNNNNNNNNNNCTCCAG	3	1865; 2315; 4845
HaeI	WGG!CCW	9	1325; 1945; 2426; 2657; 3883; 4144; 5506; 5958; 5969
HaeII	RGCGC!Y	5	598; 3329; 3337; 4065; 5740
HaeIII	GG!CC	35	84; 277; 1103; 1169; 1325; 1578; 1790; 1945; 1951; 2148; 2391; 2426; 2460; 2483; 2505; 2615; 2657; 2708; 3028; 3170; 3825; 3831; 3840; 3883; 3970; 4144; 4535; 4562; 5071; 5128; 5161; 5506; 5940; 5958; 5969
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	5	986; 1622; 1990; 2737; 4258
HaeIV	!NNNNNNNNNGAYNNNNNRTC	5	952; 1588; 1956; 2703; 4224
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	5	985; 1621; 1989; 2736; 4257
HaeIV	!NNNNNNNGAYNNNNNRTC	5	954; 1590; 1958; 2705; 4226
HapII	C!CGG	21	601; 784; 1791; 1979; 2571; 3280; 3967; 4044; 4066; 4094; 4225; 4315; 4382; 4563; 4838; 4846; 4938; 5412; 5602; 5628; 5775
HgaI	GACGCNNNNN!	3	526; 4772; 4851
HgaI	!NNNNNNNNNGCGTC	4	2563; 3395; 5290; 5868

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HhaI	GCG!C	27	597; 781; 783; 1050; 1370; 1766; 1934; 3328; 3336; 3362; 3384; 3393; 3406; 3437; 4056; 4064; 4128; 4165; 4431; 4691; 4867; 4953; 5356; 5465; 5639; 5739; 5806
Hin1I	GR!CGYC	8	122; 175; 258; 444; 2574; 4062; 4764; 4843
Hin1II	CATG!	28	304; 364; 826; 1109; 1462; 1783; 1877; 1993; 2029; 2035; 2047; 2125; 2191; 2271; 2482; 3492; 3632; 3704; 3795; 3936; 4281; 4467; 4498; 4524; 4880; 5264; 5984; 6035
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	6	985; 1621; 1895; 1989; 2736; 4257
Hin4I	!NNNNNNNNGABNNNNNRTC	6	953; 1589; 1957; 2704; 4225; 4255
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	6	985; 1621; 1989; 2736; 4257; 4287
Hin4I	!NNNNNNNNGAYNNNNNVTC	6	953; 1589; 1863; 1957; 2704; 4225
Hin6I	G!CGC	27	595; 779; 781; 1048; 1368; 1764; 1932; 3326; 3334; 3360; 3382; 3391; 3404; 3435; 4054; 4062; 4126; 4163; 4429; 4689; 4865; 4951; 5354; 5463; 5637; 5737; 5804
HinP1I	G!CGC	27	595; 779; 781; 1048; 1368; 1764; 1932; 3326; 3334; 3360; 3382; 3391; 3404; 3435; 4054; 4062; 4126; 4163; 4429; 4689; 4865; 4951; 5354; 5463; 5637; 5737; 5804
HincII	GTY!RAC	2	1186; 2825
HindII	GTY!RAC	2	1186; 2825
HindIII	A!AGCTT	2	622; 848
HinfI	G!ANTC	18	410; 604; 921; 947; 2127; 2277; 2604; 2713; 3105; 3127; 3537; 4547; 4681; 4733; 4791; 4828; 5610; 6006
HpaI	GTT!AAC	1	2825
HpaII	C!CGG	21	601; 784; 1791; 1979; 2571; 3280; 3967; 4044; 4066; 4094; 4225; 4315; 4382; 4563; 4838; 4846; 4938; 5412; 5602; 5628; 5775
HphI	GGTGANNNNNNN!	8	376; 839; 971; 1267; 1706; 2383; 5133; 5249
HphI	!NNNNNNNTCACC	4	1632; 2272; 3179; 4240
Hpy8I	GTN!NAC	17	201; 539; 577; 1186; 1375; 1411; 1900; 2059; 2079; 2374; 2578; 2587; 2825; 3109; 3126; 3181; 5668
Hpy99I	CGWCG!	9	1841; 2636; 4152; 4180; 4474; 4489; 4766; 5151; 5884
Hpy166II	GTN!NAC	17	201; 539; 577; 1186; 1375; 1411; 1900; 2059; 2079; 2374; 2578; 2587; 2825; 3109; 3126; 3181; 5668
Hpy188I	TCN!GA	17	585; 609; 718; 920; 1065; 2086; 2366; 3236; 3845; 4029; 4373; 4726; 4827; 5306; 5440; 5793; 5871
Hpy188III	TC!NNGA	26	613; 854; 1219; 2359; 2524; 2563; 2717; 3489; 3541; 3854; 3907; 4080; 4396; 4405; 4488; 4544; 4588; 4678; 4711; 4780; 5261; 5335; 5418; 5516; 5614; 5748
HpyAV	CCTTCNNNNNN!	10	1039; 1070; 1336; 1920; 2167; 2215; 2260; 4707; 4814; 5493
HpyAV	!NNNNNGAAGG	13	654; 883; 1120; 1537; 2087; 2459; 3295; 4190; 4919; 4935; 5118; 5435; 5745
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 969; 2056; 3153; 4442; 4558; 4666; 4989; 5480; 5950; 6021
HpyCH4IV	A!CGT	21	122; 134; 175; 258; 339; 444; 1011; 1044; 1188; 1426; 1512; 2355; 2631; 3122; 3134; 3177; 3287; 4178; 4365; 5146; 5279
HpyCH4V	TG!CA	22	1198; 1383; 2029; 2079; 2401; 2517; 2811; 2838; 2906; 3623; 3632; 3695; 3704; 3819; 3895; 3954; 4113; 4288; 4302; 5372; 5668; 6035
HpyF3I	C!TNAG	13	606; 717; 1277; 1583; 1998; 2256; 2553; 3542; 3844; 4725; 5174; 5297; 5706
HpyF10VI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 904; 1204; 1584; 1819; 1923; 1935; 2035; 2466; 3289; 3319; 3346; 3388; 3629; 3701; 3752; 3831; 4053; 4137; 4160; 4299; 4422; 4505; 4772; 4959; 5163; 5362; 5934
Hsp92I	GR!CGYC	8	122; 175; 258; 444; 2574; 4062; 4764; 4843
Hsp92II	CATG!	28	304; 364; 826; 1109; 1462; 1783; 1877; 1993; 2029; 2035; 2047; 2125; 2191; 2271; 2482; 3492; 3632; 3704; 3795; 3936; 4281; 4467; 4498; 4524; 4880; 5264; 5984; 6035
HspAI	G!CGC	27	595; 779; 781; 1048; 1368; 1764; 1932; 3326; 3334; 3360; 3382; 3391; 3404; 3435; 4054; 4062; 4126; 4163; 4429; 4689; 4865; 4951; 5354; 5463; 5637; 5737; 5804
KasI	G!GCGCC	1	4061
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	2825

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Kzo9I	!GATC	28	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2361; 2511; 2537; 2719; 3899; 3903; 3922; 4233; 4311; 4392; 4401; 4479; 4855; 4871; 5230; 5242; 5320; 5328; 5339; 5414
LguI	GCTCTTCN!	2	914; 1511
LguI	!NNNNGAAGAGC	4	1236; 2001; 4406; 4616
LpnI	RGCI GCY	5	596; 3327; 3335; 4063; 5738
LpnPI	CCDGNNNNNNNNNN!	79	102; 295; 614; 737; 797; 831; 938; 1011; 1106; 1184; 1214; 1343; 1393; 1408; 1686; 1804; 1832; 1859; 1895; 1927; 1948; 1965; 1992; 2129; 2186; 2234; 2268; 2330; 2345; 2406; 2474; 2498; 2522; 2584; 2671; 2799; 3104; 3293; 3516; 3554; 3570; 3610; 3665; 3682; 3782; 3867; 3980; 4057; 4079; 4102; 4238; 4252; 4271; 4328; 4395; 4445; 4461; 4518; 4576; 4785; 4851; 4875; 4951; 5040; 5143; 5176; 5407; 5425; 5571; 5591; 5615; 5641; 5690; 5788; 5833; 5863; 5942; 5967; 6004
LpnPI	!NNNNNNNNNNNNNNCHGG	72	75; 268; 552; 586; 697; 769; 817; 839; 867; 917; 984; 1039; 1391; 1448; 1560; 1659; 1677; 1735; 1772; 1854; 1927; 1946; 1964; 2159; 2207; 2303; 2404; 2447; 2556; 2582; 2669; 3145; 3265; 3322; 3385; 3583; 3595; 3655; 3667; 3899; 3944; 3987; 4029; 4051; 4079; 4126; 4188; 4210; 4300; 4367; 4390; 4434; 4529; 4548; 4573; 4722; 4823; 4866; 4923; 5013; 5116; 5143; 5161; 5397; 5434; 5587; 5613; 5753; 5771; 5806; 5887; 5940
Lsp1109I	GCAGCNNNNNNNN!	11	648; 697; 1938; 2208; 2650; 2850; 4135; 4177; 4698; 5151; 5651
Lsp1109I	!NNNNNNNNNNNGCTGC	10	989; 1619; 1852; 2327; 3344; 4009; 4193; 4286; 5352; 5558
LweI	GCATCNNNNN!	8	1305; 2235; 2878; 3641; 3713; 4361; 4425; 4700
LweI	!NNNNNNNNNGATGC	9	357; 1185; 2388; 2427; 2556; 4020; 4275; 4491; 5883
MabI	A!CCWGGT	2	1404; 3651
MaeI	C!TAG	10	592; 1737; 2676; 2717; 2911; 3329; 3885; 4900; 5234; 5487
MaeII	A!CGT	21	122; 134; 175; 258; 339; 444; 1011; 1044; 1188; 1426; 1512; 2355; 2631; 3122; 3134; 3177; 3287; 4178; 4365; 5146; 5279
MaeIII	!GTNAC	17	61; 148; 497; 827; 983; 1687; 1694; 2278; 2850; 3351; 3363; 4182; 4488; 5178; 5444; 5560; 5623
MalI	GA!TC	28	587; 611; 1067; 1392; 1536; 1557; 1606; 1974; 2363; 2513; 2539; 2721; 3901; 3905; 3924; 4235; 4313; 4394; 4403; 4481; 4857; 4873; 5232; 5244; 5322; 5330; 5341; 5416
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNNNGTCAAYG	4	157; 240; 426; 1164
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3486; 4675
MbiI	GAG!CGG	3	2705; 3322; 4729
MboI	!GATC	28	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2361; 2511; 2537; 2719; 3899; 3903; 3922; 4233; 4311; 4392; 4401; 4479; 4855; 4871; 5230; 5242; 5320; 5328; 5339; 5414
MboII	GAAGANNNNNNNN!	12	1142; 1163; 1253; 1560; 2018; 2303; 2416; 3318; 3546; 4423; 4633; 5252
MboII	!NNNNNNNTCTTC	10	901; 1294; 1306; 1438; 1498; 1510; 4713; 4880; 5080; 5323
McaTI	GCGC!GC	1	782
MfeI	C!AATTG	1	2812
MflI	R!GATCY	13	585; 609; 1390; 1604; 1972; 2537; 4233; 4479; 4871; 5230; 5242; 5328; 5339
MhII	GDGCH!C	20	620; 818; 909; 1086; 1161; 1248; 1506; 1589; 2054; 2081; 2114; 2691; 3253; 4008; 4101; 4175; 4365; 4427; 5137; 5670
MisI	TGG!CCA	2	2657; 4144
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	2657; 4144
MlyI	GAGTCNNNNN!	4	956; 2286; 3114; 3546
MlyI	!NNNNNGACTC	6	404; 598; 2707; 3121; 4727; 5604
Mly113I	GG!CGCC	1	4062
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNNNN!	3	1830; 2409; 3155
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	5587; 5771
MnII	CCTCNNNNNNN!	19	764; 1310; 1430; 1648; 1680; 1720; 1956; 2160; 2339; 2354; 2570; 2681; 2781; 3845; 4663; 4869; 5183; 5553; 5877
MnII	!NNNNNGAGG	29	541; 661; 804; 878; 1116; 1147; 1257; 1312; 2041; 2080; 2101; 2134; 2251; 2360; 2416; 2605; 2638; 2741; 3206; 3537; 3815; 3858; 3873; 3913; 3977; 4113; 4470; 4900; 5803
Mph1103I	ATGCA!T	3	3634; 3706; 6037
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MroNI	G!CCGGC	4	783; 3279; 4562; 4845
MroXI	GAANN!NNTTC	1	1705
MscI	TGG!CCA	2	2657; 4144
MseI	T!TAA	22	7; 696; 703; 799; 1530; 2016; 2241; 2697; 2763; 2824; 2945; 2966; 2977; 2989; 3000; 3017; 3115; 3386; 5205; 5219; 5224; 5276
MslI	CAYNN!NNRTG	7	365; 1073; 1457; 1991; 2030; 2435; 4499
MspI	C!CGG	21	601; 784; 1791; 1979; 2571; 3280; 3967; 4044; 4066; 4094; 4225; 4315; 4382; 4563; 4838; 4846; 4938; 5412; 5602; 5628; 5775
Msp20I	TGG!CCA	2	2657; 4144
MspA1I	CMG!CKG	7	881; 941; 2450; 3560; 4168; 5397; 5642
MspCI	C!TTAAG	1	2944
MspJI	CNNRNNNNNNNNN!	307	36; 50; 71; 97; 113; 127; 147; 167; 219; 236; 251; 290; 306; 319; 332; 352; 373; 407; 424; 449; 481; 500; 523; 548; 574; 596; 613; 627; 640; 677; 690; 720; 736; 769; 782; 796; 829; 844; 866; 882; 925; 943; 966; 1002; 1018; 1036; 1053; 1066; 1081; 1097; 1111; 1151; 1172; 1188; 1201; 1214; 1231; 1246; 1259; 1285; 1318; 1342; 1375; 1392; 1407; 1435; 1471; 1486; 1534; 1550; 1572; 1587; 1600; 1615; 1632; 1651; 1669; 1685; 1704; 1723; 1741; 1757; 1777; 1790; 1803; 1818; 1831; 1847; 1866; 1881; 1894; 1909; 1926; 1943; 1959; 1972; 1991; 2010; 2024; 2038; 2056; 2086; 2104; 2119; 2134; 2152; 2185; 2200; 2228; 2243; 2267; 2280; 2296; 2314; 2328; 2344; 2357; 2371; 2392; 2405; 2426; 2439; 2459; 2473; 2491; 2504; 2521; 2536; 2553; 2573; 2603; 2620; 2640; 2654; 2670; 2687; 2702; 2722; 2735; 2750; 2769; 2786; 2799; 2840; 2854; 2867; 2885; 2923; 2938; 2956; 2997; 3021; 3041; 3059; 3080; 3103; 3135; 3150; 3172; 3190; 3203; 3224; 3241; 3254; 3267; 3283; 3296; 3326; 3341; 3366; 3384; 3397; 3412; 3436; 3450; 3474; 3499; 3515; 3553; 3569; 3608; 3622; 3636; 3664; 3680; 3694; 3708; 3737; 3750; 3771; 3780; 3802; 3832; 3848; 3866; 3896; 3919; 3943; 3967; 3986; 4014; 4040; 4056; 4069; 4092; 4106; 4126; 4139; 4153; 4172; 4186; 4199; 4215; 4230; 4243; 4259; 4274; 4290; 4315; 4334; 4350; 4363; 4376; 4394; 4408; 4422; 4438; 4460; 4476; 4495; 4517; 4533; 4556; 4575; 4589; 4605; 4619; 4639; 4655; 4668; 4690; 4723; 4737; 4757; 4770; 4784; 4838; 4851; 4874; 4887; 4906; 4923; 4950; 4986; 5019; 5038; 5063; 5084; 5111; 5124; 5141; 5155; 5170; 5186; 5246; 5271; 5287; 5309; 5322; 5336; 5367; 5381; 5406; 5424; 5439; 5452; 5471; 5484; 5499; 5528; 5547; 5565; 5590; 5605; 5624; 5640; 5659; 5677; 5693; 5707; 5726; 5753; 5776; 5798; 5817; 5832; 5845; 5862; 5882; 5909; 5922; 5941; 5966; 5989; 6003; 6016; 6033
MspJI	!NNNNNNNNNNNNYNG	252	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 593; 612; 639; 698; 729; 761; 786; 804; 827; 845; 868; 888; 911; 932; 957; 984; 1005; 1029; 1049; 1067; 1085; 1103; 1130; 1157; 1175; 1205; 1233; 1259; 1279; 1296; 1316; 1338; 1355; 1381; 1411; 1445; 1470; 1487; 1508; 1526; 1551; 1570; 1587; 1643; 1660; 1678; 1697; 1715; 1736; 1766; 1796; 1821; 1855; 1875; 1900; 1917; 1934; 1955; 1976; 2003; 2030; 2060; 2084; 2102; 2126; 2145; 2167; 2207; 2228; 2254; 2274; 2303; 2345; 2379; 2400; 2420; 2447; 2465; 2482; 2500; 2528; 2549; 2568; 2594; 2616; 2639; 2662; 2688; 2714; 2743; 2772; 2814; 2897; 2932; 2959; 2982; 3011; 3055; 3077; 3109; 3145; 3162; 3183; 3220; 3240; 3257; 3274; 3309; 3327; 3345; 3362; 3386; 3408; 3435; 3463; 3489; 3527; 3548; 3565; 3583; 3606; 3627; 3655; 3678; 3699; 3717; 3738; 3755; 3778; 3802; 3822; 3840; 3862; 3893; 3915; 3941; 3960; 3977; 4005; 4024; 4043; 4061; 4079; 4100; 4122; 4146; 4179; 4199; 4217; 4238; 4264; 4291; 4308; 4325; 4342; 4368; 4390; 4412; 4430; 4450; 4469; 4491; 4529; 4549; 4573; 4593; 4613; 4640; 4664; 4697; 4716; 4744; 4766; 4795; 4823; 4848; 4867; 4886; 4907; 4924; 4941; 4972; 4999; 5019; 5042; 5062; 5099; 5116; 5135; 5161; 5181; 5220; 5247; 5266; 5284; 5321; 5339; 5380; 5398; 5424; 5441; 5473; 5502; 5530; 5551; 5574; 5593; 5614; 5632; 5649; 5667; 5693; 5714; 5734; 5754; 5772; 5793; 5819; 5836; 5855; 5874; 5903; 5922; 5940; 5959; 5977; 5995; 6018
MspR9I	CC!NGG	26	90; 283; 932; 999; 1406; 1674; 1961; 2174; 2222; 2318; 2333; 2462; 2571; 3598; 3653; 3670; 4066; 4226; 4449; 4839; 5028; 5131; 5603; 5821; 5834; 5955
MssI	GTTT!AAC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MunI	C!AATTG	1	2812
MvaI	CC!WGG	21	90; 283; 932; 999; 1406; 1674; 1961; 2174; 2222; 2318; 2333; 2462; 3598; 3653; 3670; 4449; 5028; 5131; 5821; 5834; 5955
Mva1269I	GAATGCN!	2	1855; 2813
Mva1269I	G!CATTC	1	2906
MvnI	CG!CG	19	60; 781; 1370; 1539; 1932; 2711; 2986; 3362; 3382; 3406; 3437; 4128; 4429; 4867; 4951; 5014; 5083; 5356; 5937
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	33	90; 212; 244; 283; 376; 400; 904; 1204; 1584; 1819; 1923; 1935; 2035; 2466; 3289; 3319; 3346; 3388; 3629; 3701; 3752; 3831; 4053; 4137; 4160; 4299; 4422; 4505; 4772; 4959; 5163; 5362; 5934
NaeI	GCC!GGC	4	785; 3281; 4564; 4847
NarI	GG!CGCC	1	4062
NciI	CC!SGG	5	2571; 4066; 4226; 4839; 5603
NcoI	C!CATGG	4	360; 1989; 3791; 4494
NdeI	CA!TATG	1	234
NdeII	!GATC	28	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2361; 2511; 2537; 2719; 3899; 3903; 3922; 4233; 4311; 4392; 4401; 4479; 4855; 4871; 5230; 5242; 5320; 5328; 5339; 5414
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	3	280; 733; 844
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	2	1293; 2118
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	2	1329; 2154
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	3	244; 697; 808
NgoMIV	G!CCGGC	4	783; 3279; 4562; 4845
NheI	G!CTAGC	2	591; 1736
NlaIII	CATG!	28	304; 364; 826; 1109; 1462; 1783; 1877; 1993; 2029; 2035; 2047; 2125; 2191; 2271; 2482; 3492; 3632; 3704; 3795; 3936; 4281; 4467; 4498; 4524; 4880; 5264; 5984; 6035
NlaIV	GGN!NCC	21	467; 815; 1058; 1650; 1974; 2053; 2113; 2504; 3217; 3238; 3250; 3441; 3602; 3674; 4063; 4098; 4946; 5025; 5070; 5913; 5952
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2894; 3209; 4801
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	5	347; 942; 1100; 2378; 5873
Nii3877I	CYCGR!G	1	617
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3851; 4287
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	3	1927; 2394; 3816
NmeDI	RCCGGYNNNNNN!	6	795; 1990; 3291; 4393; 4574; 4857
NmeDI	!NNNNNNNNNNNNRCCGGY	6	770; 1965; 3266; 4368; 4549; 4832
NmuCI	!GTSAC	6	827; 1694; 2278; 3351; 4182; 4488
NotI	GC!GGCCGC	1	2706
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4164
NsiI	ATGCA!T	3	3634; 3706; 6037
NspI	RCATG!Y	5	2029; 3632; 3704; 4467; 5984
NspV	TT!CGAA	2	627; 4744
OliI	CACNN!NNGTG	1	1991
PabI	GTA!C	15	220; 245; 300; 333; 384; 541; 677; 1098; 1233; 1347; 1680; 2043; 2193; 2445; 4369
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3632; 3704; 4467
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	3488; 5260
PalAI	GG!CGCGCC	1	779
PasI	CC!CWGGG	3	2221; 5027; 5130
PauI	G!CGCGC	1	779
PceI	AGG!CCT	2	1945; 3883
PciI	A!CATGT	1	5980
PciSI	GCTCTCN!	2	914; 1511
PciSI	!NNNNGAAGAGC	4	1236; 2001; 4406; 4616
PcsI	WCGNNNN!NNNCGW	9	1185; 1833; 2640; 4356; 4433; 4676; 4750; 5143; 5661
PctI	GAATGCN!	2	1855; 2813
PctI	G!CATTC	1	2906
PdiI	GCC!GGC	4	785; 3281; 4564; 4847
PdmI	GAANN!NNTTC	1	1705
PfeI	G!AWTC	8	921; 2127; 2604; 4547; 4681; 4791; 4828; 6006



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	3	860; 1181; 4180
PfIMI	CCANNNN!NTGG	1	2596
PfoI	T!CCNGGA	2	2331; 4837
PhoI	GG!CC	35	84; 277; 1103; 1169; 1325; 1578; 1790; 1945; 1951; 2148; 2391; 2426; 2460; 2483; 2505; 2615; 2657; 2708; 3028; 3170; 3825; 3831; 3840; 3883; 3970; 4144; 4535; 4562; 5071; 5128; 5161; 5506; 5940; 5958; 5969
PinAI	A!CCGGT	1	1978
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNN!	2	1317; 4443
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	1933; 4008; 4263
PleI	GAGTCNNNN!	4	955; 2285; 3113; 3545
PleI	!NNNNNGACTC	6	404; 598; 2707; 3121; 4727; 5604
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	1	1045
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	1	1045
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	3144
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	5274
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	5306
PpiI	!NNNNNNNGAACNNNNNCTC	1	3112
PpsI	GAGTCNNNN!	4	955; 2285; 3113; 3545
PpsI	!NNNNNGACTC	6	404; 598; 2707; 3121; 4727; 5604
Ppu10I	A!TGCAT	3	3630; 3702; 6033
Ppu21I	YAC!GTR	4	340; 1045; 3178; 4366
PpuMI	RG!GWCCY	1	1057
PscI	A!CATGT	1	5980
PshAI	GACN!NNGTC	1	2630
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2845; 3050
Psp03I	GGWC!C	6	865; 1060; 1903; 2590; 4581; 5026
Psp5II	RG!GWCCY	1	1057
Psp6I	!CCWGG	21	88; 281; 930; 997; 1404; 1672; 1959; 2172; 2220; 2316; 2331; 2460; 3596; 3651; 3668; 4447; 5026; 5129; 5819; 5832; 5953
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	3	620; 1161; 1506
PspCI	CAC!GTG	1	1045
PspEI	G!GTNACC	0	
PspGI	!CCWGG	21	88; 281; 930; 997; 1404; 1672; 1959; 2172; 2220; 2316; 2331; 2460; 3596; 3651; 3668; 4447; 5026; 5129; 5819; 5832; 5953
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	21	467; 815; 1058; 1650; 1974; 2053; 2113; 2504; 3217; 3238; 3250; 3441; 3602; 3674; 4063; 4098; 4946; 5025; 5070; 5913; 5952
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNN!	4	125; 1842; 3792; 4791
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	2	1731; 4194
PspPI	G!GNCC	19	83; 276; 862; 1057; 1102; 1168; 1577; 1900; 2147; 2390; 2482; 2503; 2587; 3169; 4578; 5023; 5069; 5127; 5160
PspPPI	RG!GWCCY	1	1057
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	3615; 3687; 5193
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	5	918; 2242; 2670; 3528; 4723
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	2	1060; 5163
PstI	CTGCA!G	0	
PstNI	CAGNNN!CTG	3	2664; 5163; 5571
PsuI	R!GATCY	13	585; 609; 1390; 1604; 1972; 2537; 4233; 4479; 4871; 5230; 5242; 5328; 5339
PsyI	GACN!NNGTC	3	860; 1181; 4180
PteI	G!CGCGC	1	779
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	941; 3560; 4168

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RcaI	T!CATGA	2	3488; 5260
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	4577
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNN!	2	1102; 2791
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	15	219; 244; 299; 332; 383; 540; 676; 1097; 1232; 1346; 1679; 2042; 2192; 2444; 4368
RsaNI	G!TAC	15	218; 243; 298; 331; 382; 539; 675; 1096; 1231; 1345; 1678; 2041; 2191; 2443; 4367
RseI	CAYNN!NNRTG	7	365; 1073; 1457; 1991; 2030; 2435; 4499
RsrII	CG!GWCCG	1	4578
Rsr2I	CG!GWCCG	1	4578
SacI	GAGCT!C	3	620; 1161; 1506
SacII	CCGC!GG	0	
SalI	G!TCGAC	0	
SapI	GCTCTTCN!	2	914; 1511
SapI	!NNNNGAAGAGC	4	1236; 2001; 4406; 4616
SaqAI	T!TAA	22	7; 696; 703; 799; 1530; 2016; 2241; 2697; 2763; 2824; 2945; 2966; 2977; 2989; 3000; 3017; 3115; 3386; 5205; 5219; 5224; 5276
SatI	GC!NGC	44	637; 686; 1003; 1270; 1633; 1717; 1866; 1927; 1930; 1939; 2146; 2197; 2341; 2458; 2639; 2706; 2709; 2839; 3358; 3380; 3394; 3832; 3971; 4023; 4034; 4124; 4129; 4166; 4207; 4294; 4300; 4536; 4632; 4673; 4687; 4801; 5140; 5155; 5366; 5572; 5575; 5640; 5783; 5938
Sau96I	G!GNCC	19	83; 276; 862; 1057; 1102; 1168; 1577; 1900; 2147; 2390; 2482; 2503; 2587; 3169; 4578; 5023; 5069; 5127; 5160
Sau3AI	!GATC	28	585; 609; 1065; 1390; 1534; 1555; 1604; 1972; 2361; 2511; 2537; 2719; 3899; 3903; 3922; 4233; 4311; 4392; 4401; 4479; 4855; 4871; 5230; 5242; 5320; 5328; 5339; 5414
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	956; 2286; 3114; 3546
SchI	!NNNNNGACTC	6	404; 598; 2707; 3121; 4727; 5604
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	26	90; 283; 932; 999; 1406; 1674; 1961; 2174; 2222; 2318; 2333; 2462; 2571; 3598; 3653; 3670; 4066; 4226; 4449; 4839; 5028; 5131; 5603; 5821; 5834; 5955
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	6	2428; 2496; 3640; 3712; 3881; 5823
SdeAI	!NNNNNNNNNNNNNNNNNNCTYCTG	7	831; 909; 1031; 1071; 1651; 4217; 4702
SdeOSI	GACNNNNRTGANNNNNNNNNNN!	2	279; 843
SdeOSI	!NNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	2	245; 809
SduI	GDGCH!C	20	620; 818; 909; 1086; 1161; 1248; 1506; 1589; 2054; 2081; 2114; 2691; 3253; 4008; 4101; 4175; 4365; 4427; 5137; 5670
SelI	!CGCG	19	58; 779; 1368; 1537; 1930; 2709; 2984; 3360; 3380; 3404; 3435; 4126; 4427; 4865; 4949; 5012; 5081; 5354; 5935
SetI	ASST!	91	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 716; 815; 852; 864; 894; 943; 955; 1000; 1014; 1047; 1140; 1161; 1191; 1203; 1257; 1286; 1323; 1364; 1382; 1410; 1429; 1506; 1515; 1686; 1738; 1912; 1962; 2013; 2040; 2136; 2186; 2207; 2358; 2493; 2511; 2562; 2630; 2634; 2649; 2673; 2752; 2773; 2782; 2794; 2843; 3010; 3125; 3137; 3180; 3217; 3267; 3290; 3414; 3562; 3657; 3850; 3963; 4091; 4170; 4181; 4253; 4324; 4368; 4628; 4774; 4818; 5149; 5180; 5239; 5282; 5425; 5446; 5545; 5682; 5697; 5716; 5728; 5772; 5818; 5869
SexAI	A!CCWGGT	2	1404; 3651
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	8	1305; 2235; 2878; 3641; 3713; 4361; 4425; 4700

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SfaNI	!NNNNNNNNNGATGC	9	357; 1185; 2388; 2427; 2556; 4020; 4275; 4491; 5883
SfcI	C!TRYAG	4	1759; 3397; 5524; 5715
SfiI	GGCCNNNN!NGGCC	1	3837
SfoI	GGC!GCC	1	4063
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	2	627; 4744
SgeI	CNNGNNNNNNNN!	234	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 677; 724; 770; 792; 830; 844; 866; 894; 937; 966; 1010; 1036; 1055; 1087; 1105; 1118; 1156; 1183; 1201; 1231; 1246; 1259; 1285; 1318; 1342; 1375; 1392; 1407; 1437; 1471; 1486; 1534; 1550; 1577; 1669; 1685; 1704; 1723; 1741; 1762; 1792; 1822; 1847; 1881; 1894; 1909; 1926; 1943; 1959; 1972; 1991; 2038; 2056; 2086; 2110; 2128; 2143; 2185; 2200; 2233; 2267; 2280; 2308; 2329; 2344; 2371; 2405; 2426; 2446; 2459; 2473; 2491; 2504; 2521; 2536; 2554; 2575; 2609; 2647; 2670; 2688; 2722; 2769; 2798; 2840; 2923; 2997; 3081; 3103; 3135; 3172; 3190; 3209; 3224; 3266; 3283; 3300; 3335; 3349; 3366; 3388; 3412; 3436; 3501; 3515; 3553; 3569; 3609; 3622; 3641; 3664; 3681; 3694; 3713; 3743; 3764; 3781; 3804; 3839; 3866; 3897; 3919; 3945; 3967; 3986; 4014; 4050; 4069; 4092; 4106; 4126; 4139; 4153; 4172; 4186; 4205; 4237; 4251; 4264; 4290; 4321; 4334; 4351; 4368; 4382; 4399; 4417; 4432; 4460; 4476; 4495; 4517; 4533; 4556; 4575; 4600; 4619; 4639; 4666; 4690; 4723; 4742; 4770; 4784; 4850; 4874; 4889; 4912; 4933; 4950; 4998; 5025; 5039; 5068; 5092; 5125; 5142; 5162; 5175; 5188; 5246; 5273; 5292; 5322; 5347; 5367; 5381; 5406; 5424; 5461; 5499; 5528; 5556; 5570; 5590; 5605; 5626; 5640; 5659; 5677; 5693; 5733; 5753; 5780; 5798; 5819; 5832; 5845; 5862; 5886; 5909; 5941; 5966; 5993; 6015
SgeI	!NNNNNNNNNNNNCNG	207	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 651; 698; 744; 766; 804; 827; 845; 868; 911; 940; 984; 1010; 1029; 1061; 1079; 1130; 1157; 1175; 1205; 1233; 1259; 1292; 1316; 1349; 1366; 1391; 1411; 1445; 1470; 1508; 1526; 1551; 1643; 1660; 1678; 1697; 1715; 1736; 1766; 1796; 1821; 1855; 1883; 1900; 1917; 1938; 1965; 2012; 2030; 2060; 2084; 2102; 2126; 2159; 2207; 2241; 2282; 2303; 2345; 2379; 2400; 2420; 2447; 2465; 2486; 2510; 2528; 2549; 2583; 2621; 2644; 2662; 2696; 2743; 2772; 2814; 2897; 2971; 3055; 3077; 3109; 3146; 3164; 3183; 3240; 3257; 3274; 3309; 3327; 3347; 3367; 3386; 3410; 3475; 3527; 3583; 3615; 3638; 3655; 3687; 3717; 3738; 3755; 3778; 3813; 3840; 3871; 3893; 3919; 3941; 3960; 3988; 4024; 4043; 4066; 4087; 4105; 4122; 4146; 4179; 4211; 4238; 4264; 4295; 4325; 4342; 4368; 4391; 4412; 4434; 4454; 4474; 4491; 4530; 4549; 4574; 4593; 4613; 4640; 4664; 4697; 4716; 4744; 4766; 4824; 4848; 4867; 4886; 4907; 4924; 4972; 4999; 5019; 5042; 5066; 5099; 5116; 5136; 5162; 5220; 5247; 5266; 5296; 5321; 5341; 5380; 5398; 5435; 5473; 5502; 5530; 5551; 5579; 5600; 5633; 5651; 5707; 5727; 5754; 5772; 5793; 5819; 5836; 5860; 5883; 5915; 5940; 5967; 5989; 6018
SgfI	GGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	1	779
SimI	GG!GTC	6	27; 1057; 1183; 3209; 4996; 5789
SimI	!GACCC	4	106; 4490; 5058; 5306
SinI	G!GWCC	6	862; 1057; 1900; 2587; 4578; 5023
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	7	365; 1073; 1457; 1991; 2030; 2435; 4499
SmlI	C!TYRAG	9	613; 619; 1363; 2561; 2944; 4453; 5335; 5612; 5874
SmoI	C!TYRAG	9	613; 619; 1363; 2561; 2944; 4453; 5335; 5612; 5874
SmuI	CCCGCNNNN!	10	93; 119; 286; 2455; 2557; 3384; 3739; 3760; 4956; 5088
SmuI	!NNNNNNGCGGG	6	2492; 3315; 4185; 4722; 4860; 5007
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3632; 3704; 4467

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	14	18; 629; 1705; 1720; 2698; 2812; 2876; 2954; 2980; 2991; 3638; 3710; 3802; 5220
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	2	1945; 3883
SsiI	C!CGC	38	58; 86; 98; 112; 279; 507; 589; 879; 1717; 1930; 2310; 2448; 2550; 2709; 3377; 3380; 3394; 3484; 3732; 3744; 3753; 3765; 3775; 3786; 3832; 3971; 4034; 4536; 4581; 4647; 4673; 4798; 4801; 4949; 5081; 5388; 5532; 6028
SsiI	G!CGG	31	370; 403; 528; 1269; 1370; 1602; 1970; 2145; 2457; 2499; 2705; 3322; 3349; 3437; 3547; 4128; 4192; 4293; 4296; 4576; 4631; 4729; 4867; 5014; 5154; 5397; 5642; 5763; 5782; 5909; 5937
SspI	AAT!ATT	2	2970; 3523
SspDI	G!GCGCC	1	4061
SspD5I	GGTGANNNNNNNN!	8	376; 839; 971; 1267; 1706; 2383; 5133; 5249
SspD5I	!NNNNNNNNNTCACC	4	1631; 2271; 3178; 4239
SstI	GAGCT!C	3	620; 1161; 1506
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	2316
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	1	1294
Sth132I	CCCGNNNN!	20	92; 118; 285; 1842; 2238; 2454; 2556; 2577; 3261; 3383; 3738; 3759; 4072; 4475; 4614; 4685; 4955; 5087; 5317; 5755
Sth132I	!NNNNNNNNCCGGG	22	15; 407; 470; 1171; 1225; 2287; 2491; 3262; 3314; 3415; 4142; 4184; 4217; 4721; 4830; 4859; 5006; 5110; 5141; 5594; 5638; 5846
Sth302II	CC!GG	21	602; 785; 1792; 1980; 2572; 3281; 3968; 4045; 4067; 4095; 4226; 4316; 4383; 4564; 4839; 4847; 4939; 5413; 5603; 5629; 5776
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	4	3930; 4387; 4412; 4866
StsI	!NNNNNNNNNNNNNNNNCATCC	7	1282; 1321; 2067; 2155; 2212; 2367; 3734
StuI	AGG!CCT	2	1945; 3883
StyI	C!CWWGG	9	360; 757; 840; 1473; 1989; 3791; 3884; 4494; 4899
StyD4I	!CCNGG	26	88; 281; 930; 997; 1404; 1672; 1959; 2172; 2220; 2316; 2331; 2460; 2569; 3596; 3651; 3668; 4064; 4224; 4447; 4837; 5026; 5129; 5601; 5819; 5832; 5953
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 969; 2056; 3153; 4442; 4558; 4666; 4989; 5480; 5950; 6021
TaiI	ACGT!	21	125; 137; 178; 261; 342; 447; 1014; 1047; 1191; 1429; 1515; 2358; 2634; 3125; 3137; 3180; 3290; 4181; 4368; 5149; 5282
TaqI	T!CGA	18	614; 627; 1317; 1827; 2139; 2166; 2634; 3211; 3902; 4175; 4331; 4355; 4391; 4553; 4744; 4789; 5044; 5882
TaqII	GACCGANNNNNNNNNN!	3	3082; 4099; 4767
TaqII	!NNNNNNNNNTCGGTC	1	5011
TaqII	CACCCANNNNNNNNNN!	2	2129; 2234
TaqII	!NNNNNNNNNTGGGTG	4	172; 815; 3966; 4558
TasI	!AATT	14	18; 629; 1705; 1720; 2698; 2812; 2876; 2954; 2980; 2991; 3638; 3710; 3802; 5220
TatI	W!GTACW	6	217; 297; 330; 381; 1095; 2040
TauI	GCSG!C	22	1272; 1719; 1932; 2148; 2460; 2708; 2711; 3382; 3396; 3834; 3973; 4036; 4131; 4296; 4299; 4538; 4634; 4675; 4803; 5157; 5785; 5940
TfiI	G!AWTC	8	921; 2127; 2604; 4547; 4681; 4791; 4828; 6006
TliI	C!TCGAG	1	613
TruII	T!TAA	22	7; 696; 703; 799; 1530; 2016; 2241; 2697; 2763; 2824; 2945; 2966; 2977; 2989; 3000; 3017; 3115; 3386; 5205; 5219; 5224; 5276
Tru9I	T!TAA	22	7; 696; 703; 799; 1530; 2016; 2241; 2697; 2763; 2824; 2945; 2966; 2977; 2989; 3000; 3017; 3115; 3386; 5205; 5219; 5224; 5276
TscAI	CASTGNN!	9	909; 1346; 1579; 1587; 2908; 4191; 5301; 5572; 5585
TseI	G!CWGC	23	636; 685; 1002; 1632; 1865; 1926; 1938; 2196; 2340; 2638; 2838; 3357; 4022; 4123; 4165; 4206; 4299; 4686; 5139; 5365; 5571; 5574; 5639
TsoI	TARCCANNNNNNNNNN!	3	1906; 3034; 3381

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TsoI	!NNNNNNNNNTGGYTA	4	1676; 2165; 2839; 4591
Tsp45I	!GTSAC	6	827; 1694; 2278; 3351; 4182; 4488
Tsp509I	!AATT	14	18; 629; 1705; 1720; 2698; 2812; 2876; 2954; 2980; 2991; 3638; 3710; 3802; 5220
TspDTI	ATGAANNNNNNNNNN!	6	978; 1890; 2048; 2820; 4121; 4825
TspDTI	!NNNNNNNNNTTCAT	10	26; 639; 785; 901; 1438; 2176; 2197; 4539; 4995; 5202
TspEI	!AATT	14	18; 629; 1705; 1720; 2698; 2812; 2876; 2954; 2980; 2991; 3638; 3710; 3802; 5220
TspGWI	ACGGANNNNNNNNNN!	2	1448; 4937
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	9	909; 1346; 1579; 1587; 2908; 4191; 5301; 5572; 5585
TstI	CACNNNNNTCCNNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	1	876
TstI	GGANNNNNNGTGNNNNNNNNNNN!	1	908
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	3	860; 1181; 4180
Tth111II	CAARCANNNNNNNNNN!	3	695; 1745; 5389
Tth111III	!NNNNNNNNNTGYTTG	3	4497; 5357; 5396
UnbI	!GGNCC	19	82; 275; 861; 1056; 1101; 1167; 1576; 1899; 2146; 2389; 2481; 2502; 2586; 3168; 4577; 5022; 5068; 5126; 5159
Van9II	CCANNNN!NTGG	1	2596
Vha464I	C!TTAAG	1	2944
VneI	G!TGCAC	2	2077; 5666
VpaK11AI	!GGWCC	6	861; 1056; 1899; 2586; 4577; 5022
VpaK11BI	G!GWCC	6	862; 1057; 1900; 2587; 4578; 5023
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	0	
XapI	R!AATTY	4	629; 2876; 2980; 2991
XbaI	T!CTAGA	1	2716
XceI	RCATG!Y	5	2029; 3632; 3704; 4467; 5984
XcmI	CCANNNNN!NNNTGG	1	1571
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	13	585; 609; 1390; 1604; 1972; 2537; 4233; 4479; 4871; 5230; 5242; 5328; 5339
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3884; 4899
XmiI	GT!MKAC	3	1374; 1410; 2577
XmnI	GAANN!NNTTC	1	1705
XspI	C!TAG	10	592; 1737; 2676; 2717; 2911; 3329; 3885; 4900; 5234; 5487
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3634; 3706; 6037