

## pTagRFP-EB3 vector

### Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2370; 2575
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2658; 3614; 5403
AatI	AGG!CCT	1	3408
AatII	GACGT!C	5	125; 178; 261; 447; 1135
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	640; 2102
AccII	CG!CG	16	60; 1038; 2236; 2511; 2887; 2907; 2931; 2962; 3653; 3954; 4392; 4476; 4539; 4608; 4881; 5462
AccIII	T!CCGGA	1	1202
Acc16I	TGC!GCA	1	3689
Acc36I	ACCTGCNNNN!	2	3855; 4305
Acc36I	!NNNNNNNNGCAGGT	1	3474
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	6	465; 1576; 1636; 2740; 3586; 3621
AccB7I	CCANNNN!NTGG	3	792; 1275; 2121
AccBSI	CCG!CTC	2	3011; 4200
AccBSI	GAG!CGG	3	2230; 2847; 4254
AceIII	CAGCTCNNNNNNN!	1	2543
AceIII	!NNNNNNNNNNNGAGCTG	2	552; 1522
AciI	C!CGC	35	58; 86; 98; 112; 279; 507; 589; 1835; 1973; 2075; 2234; 2902; 2905; 2919; 3009; 3257; 3269; 3278; 3290; 3300; 3311; 3357; 3496; 3559; 4061; 4106; 4172; 4198; 4323; 4326; 4474; 4606; 4913; 5057; 5553
AciI	G!CGG	29	370; 403; 528; 1038; 1232; 1670; 1982; 2024; 2230; 2847; 2874; 2962; 3072; 3653; 3717; 3818; 3821; 4101; 4156; 4254; 4392; 4539; 4679; 4922; 5167; 5288; 5307; 5434; 5462
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	8	1505; 3455; 3766; 4012; 4404; 4763; 4861; 4947
AclWI	!NNNNNGATCC	7	580; 1492; 2057; 3831; 4375; 4762; 4859
AcoI	Y!GGCCR	9	653; 1167; 1233; 2180; 2231; 3493; 3667; 4058; 4085
AcsI	R!AATY	7	629; 949; 988; 1253; 2401; 2505; 2516
AcuI	CTGAAGNNNNNNNNNNNNNNN!	3	2032; 3733; 4165
AcuI	!NNNNNNNNNNNNNCTTCAG	2	1314; 4963
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 1132; 2099; 3587; 4289; 4368
AdeI	CACNNN!GTG	2	2172; 2703
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 667; 1492; 1567; 1717; 1969; 3893
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	26	49; 792; 1032; 1072; 1169; 1275; 1633; 1746; 1912; 1978; 2121; 2599; 2925; 3317; 3568; 4112; 4393; 4425; 4557; 4592; 4642; 4674; 5027; 5306; 5472; 5490
AfIII	C!TTAAG	1	2469
AfIII	A!CRYGT	1	5505
AgeI	A!CCGGT	1	1503
AgsI	TT!AA	13	876; 897; 1089; 1261; 1287; 1462; 1599; 2049; 2998; 3042; 3052; 3465; 5041
AhdI	GACNNN!NNGTC	0	
AhlI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	22	88; 281; 839; 1046; 1071; 1361; 1481; 1493; 1697; 1745; 1841; 1856; 1985; 3121; 3176; 3193; 3972; 4551; 4654; 5344; 5357; 5478
AjuI	GAANNNNNNNTTGGNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNCCAANNNNNNTTC	0	
AjuI	CCAANNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNGAANNNNNNTTGG	0	
AleI	CACNN!NNGTG	2	676; 1516
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	4	659; 798; 3161; 3233
AlfI	!NNNNNNNNNGCANNNNNNNTGC	4	625; 764; 3127; 3199
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	2	1923; 2669
AloI	!NNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNGAACNNNNNNNTCC	2	1891; 2637
AluI	AG!CT	23	566; 618; 624; 762; 892; 1275; 1290; 1353; 1536; 1563; 1709; 2016; 2366; 2533; 2790; 3085; 3373; 3693; 4151; 4948; 5205; 5251; 5341
AluBI	AG!CT	23	566; 618; 624; 762; 892; 1275; 1290; 1353; 1536; 1563; 1709; 2016; 2366; 2533; 2790; 3085; 3373; 3693; 4151; 4948; 5205; 5251; 5341
AlwI	GGATCNNNN!	8	1505; 3455; 3766; 4012; 4404; 4763; 4861; 4947
AlwI	!NNNNNGATCC	7	580; 1492; 2057; 3831; 4375; 4762; 4859
Alw21I	GWGCW!C	7	620; 821; 1355; 1606; 3700; 3890; 5195
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	6	1234; 2143; 3011; 3429; 4448; 4576
Alw44I	G!TGCAC	3	817; 1602; 5191
AlwNI	CAGNNN!CTG	3	2189; 4688; 5096
Ama87I	C!YCGRG	1	613
Aor13HI	T!CCGGA	1	1202
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	3	3155; 3227; 4689
ApaLI	G!TGCAC	3	817; 1602; 5191
ApeKI	G!CWGC	19	775; 882; 889; 1721; 1865; 2163; 2363; 2882; 3547; 3648; 3690; 3731; 3824; 4211; 4664; 4890; 5096; 5099; 5164
ApoI	R!AATY	7	629; 949; 988; 1253; 2401; 2505; 2516
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	4102
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	3896; 4549; 5387
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3986
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	1697
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	3415
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	1	1451
AquIV	!NNNNNNNNNNNNNNNNNNNCTCCYC	2	786; 4157
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNCRANNNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	25	586; 610; 1078; 1083; 1498; 1887; 2037; 2063; 2245; 3425; 3429; 3448; 3759; 3837; 3918; 3927; 4005; 4381; 4397; 4756; 4768; 4846; 4854; 4865; 4940
AsiGI	A!CCGGT	1	1503
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3705
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3409; 4424
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	23	597; 1038; 1059; 2853; 2861; 2887; 2909; 2918; 2931; 2962; 3581; 3589; 3653; 3690; 3956; 4216; 4392; 4478; 4881; 4990; 5164; 5264; 5331
AspS9I	G!GNCC	16	83; 276; 1044; 1144; 1185; 1672; 1915; 2007; 2028; 2112; 2694; 4103; 4548; 4594; 4652; 4685
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 4269
AsuC2I	CC!SGG	6	809; 2096; 3591; 3751; 4364; 5128
AsuHPI	GGTGANNNNNNNNN!	5	376; 1087; 1908; 4658; 4774
AsuHPI	!NNNNNNNTCACC	3	1797; 2704; 3765

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AsuNI	G!CTAGC	1	591
AvaI	C!YCGRG	1	613
AvaII	G!GWCC	3	2112; 4103; 4548
AviII	TGC!GCA	1	3689
AvrII	C!CTAGG	2	3409; 4424
AxyI	CC!TNAGG	4	1445; 1781; 3067; 4699
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	8	821; 1579; 1606; 1639; 2216; 3533; 3626; 5195
BalI	TGG!CCA	2	2182; 3669
BamHI	G!GATCC	1	1497
BanI	G!GYRCC	6	465; 1576; 1636; 2740; 3586; 3621
BanII	GRGCY!C	5	620; 1355; 2778; 3952; 4662
BanIII	AT!CGAT	1	3427
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	3	792; 1275; 2121
BauI	C!ACGAG	3	2167; 4305; 5332
BauI	C!TCGTG	2	2017; 4179
BbeI	GGCG!C	1	3590
Bbr7I	GAAGACNNNNNN!	2	1489; 1828
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	2	1484; 1823
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	3157; 3229; 3992
BbvI	GCAGCNNNNNNNN!	10	787; 901; 1733; 2175; 2375; 3660; 3702; 4223; 4676; 5176
BbvI	!NNNNNNNNNNNGCTGC	8	869; 1852; 2869; 3534; 3718; 3811; 4877; 5083
Bbv12I	GWGCW!C	7	620; 821; 1355; 1606; 3700; 3890; 5195
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	1224; 1914; 2717; 3281; 3807; 4309
BccI	!NNNNNGATGG	6	897; 1003; 1294; 2685; 3465; 3893
BceAI	ACGGCNNNNNNNNNN!	6	1734; 1878; 1929; 1995; 4013; 4500
BceAI	!NNNNNNNNNNNNNGCCGT	4	640; 2728; 3546; 5005
Bcefl	ACGGCNNNNNNNNNN!	6	1734; 1878; 1929; 1995; 4013; 4500
Bcefl	!NNNNNNNNNNNNNGCCGT	4	641; 2729; 3547; 5006
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNCGANNNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3016; 3806; 5307
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1077
BcnI	CC!SGG	6	809; 2096; 3591; 3751; 4364; 5128
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	3	989; 1484; 5440
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	3	955; 1450; 5406
BfaI	C!TAG	10	592; 850; 2201; 2242; 2436; 2854; 3410; 4425; 4759; 5012
BfiI	ACTGGGNNNNNN!	2	2218; 3536
BfiI	!NNNNCCCAGT	2	289; 3288
BfmI	C!TRYAG	5	634; 926; 2922; 5049; 5240
BfoI	RGCG!Y	6	598; 1060; 2854; 2862; 3590; 5265
BfrI	C!TTAAG	1	2469
BfuI	GTATCCNNNNNN!	3	3016; 3806; 5307
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3855; 4305
BfuAI	!NNNNNNNNNGCAGGT	1	3474
BfuCI	!GATC	25	585; 609; 1077; 1082; 1497; 1886; 2036; 2062; 2244; 3424; 3428; 3447; 3758; 3836; 3917; 3926; 4004; 4380; 4396; 4755; 4767; 4845; 4853; 4864; 4939

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BglI	GCCNNNN!NGGC	6	90; 212; 283; 652; 1991; 3362
BglII	A!GATCT	2	609; 1082
BisI	GC!NGC	39	776; 883; 890; 1039; 1233; 1671; 1722; 1866; 1983; 2164; 2231; 2234; 2364; 2883; 2905; 2919; 3357; 3496; 3548; 3559; 3649; 3654; 3691; 3732; 3819; 3825; 4061; 4157; 4198; 4212; 4326; 4665; 4680; 4891; 5097; 5100; 5165; 5308; 5463
BlnI	C!CTAGG	2	3409; 4424
BlpI	GC!TNAGC	1	1174
BlsI	GCN!GC	39	777; 884; 891; 1040; 1234; 1672; 1723; 1867; 1984; 2165; 2232; 2235; 2365; 2884; 2906; 2920; 3358; 3497; 3549; 3560; 3650; 3655; 3692; 3733; 3820; 3826; 4062; 4158; 4199; 4213; 4327; 4666; 4681; 4892; 5098; 5101; 5166; 5309; 5464
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	3	2112; 4103; 4548
Bme1390I	CC!NGG	28	90; 283; 809; 841; 1048; 1073; 1363; 1483; 1495; 1699; 1747; 1843; 1858; 1987; 2096; 3123; 3178; 3195; 3591; 3751; 3974; 4364; 4553; 4656; 5128; 5346; 5359; 5480
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	1	613
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	16	84; 277; 1045; 1145; 1186; 1673; 1916; 2008; 2029; 2113; 2695; 4104; 4549; 4595; 4653; 4686
BmiI	GGN!NCC	19	467; 1187; 1499; 1578; 1638; 2029; 2742; 2763; 2775; 2966; 3127; 3199; 3588; 3623; 4471; 4550; 4595; 5438; 5477
BmrI	ACTGGGNNNNN!	2	2218; 3536
BmrI	!NNNNCCCAGT	2	289; 3288
BmrFI	CC!NGG	28	90; 283; 809; 841; 1048; 1073; 1363; 1483; 1495; 1699; 1747; 1843; 1858; 1987; 2096; 3123; 3178; 3195; 3591; 3751; 3974; 4364; 4553; 4656; 5128; 5346; 5359; 5480
BmsI	GCATCNNNNN!	9	1409; 1476; 1760; 2403; 3166; 3238; 3886; 3950; 4225
BmsI	!NNNNNNNNNGATGC	9	357; 1236; 1913; 1952; 2081; 3545; 3800; 4016; 5408
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	2218; 3536
BmuI	!NNNNCCCAGT	2	289; 3288
BoxI	GACNN!NNGTC	1	2155
BpiI	GAAGACNN!	2	1484; 1823
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3376; 4275
BpI	!NNNNNNNNNGAGNNNNNCTC	2	3344; 4243
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	2	1327; 4427
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	1840; 4370
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 4269
Bpu1102I	GC!TNAGC	1	1174
BpuAI	GAAGACNN!	2	1484; 1823
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	843; 4881; 5420
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	4	604; 2071; 3963; 5122
BpuMI	CC!SGG	6	809; 2096; 3591; 3751; 4364; 5128
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	2	2143; 4576
Bsa29I	AT!CGAT	1	3427
BsaAI	YAC!GTR	3	340; 2703; 3891
BsaBI	GATNN!NNATC	2	2249; 3446
BsaHI	GR!CGYC	9	122; 175; 258; 444; 1132; 2099; 3587; 4289; 4368
BsaJI	C!CNNGG	23	360; 650; 807; 1071; 1514; 1610; 1745; 1746; 1841; 3121; 3193; 3316; 3351; 3360; 3409; 3750; 4019; 4424; 4551; 4552; 4654; 4655; 5345
BsaMI	GAATGCN!	1	2338
BsaMI	G!CATTC	2	1196; 2431
BsaWI	W!CCGGW	7	600; 1202; 1503; 3618; 4462; 5152; 5299
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2667
BsaXI	!NNNNNNNNGGAGNNNNNNGT	0	

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BsaXI	GGAGNNNNNGTNNNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNNCTCC	1	2637
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	1	1979
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	3	888; 2588; 4495
Bsc4I	CCNNNNN!NNGG	26	49; 792; 1032; 1072; 1169; 1275; 1633; 1746; 1912; 1978; 2121; 2599; 2925; 3317; 3568; 4112; 4393; 4425; 4557; 4592; 4642; 4674; 5027; 5306; 5472; 5490
BscAI	GCATCNNNN!	10	1408; 1417; 1475; 1759; 2402; 3165; 3237; 3885; 3949; 4224
BscAI	!NNNNNNNGATGC	9	360; 1239; 1916; 1955; 2084; 3548; 3803; 4019; 5411
BseI	ACTGGN!	5	2126; 2213; 3531; 3732; 4978
BseI	C!CAGT	7	295; 683; 786; 2616; 3294; 5090; 5103
Bse8I	GATNN!NNATC	2	2249; 3446
Bse21I	CC!TNAGG	4	1445; 1781; 3067; 4699
Bse118I	R!CCGGY	6	1169; 1503; 2804; 3906; 4087; 4370
BseAI	T!CCGGA	1	1202
BseBI	CC!WGG	22	90; 283; 841; 1048; 1073; 1363; 1483; 1495; 1699; 1747; 1843; 1858; 1987; 3123; 3178; 3195; 3974; 4553; 4656; 5346; 5359; 5480
BseCI	AT!CGAT	1	3427
BseDI	C!CNNGG	23	360; 650; 807; 1071; 1514; 1610; 1745; 1746; 1841; 3121; 3193; 3316; 3351; 3360; 3409; 3750; 4019; 4424; 4551; 4552; 4654; 4655; 5345
Bse3DI	GCAATGNN!	2	1185; 3820
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	1305; 3447; 3904; 3929; 4383
BseGI	!CATCC	7	863; 1409; 1606; 1694; 1751; 1906; 3273
BseJI	GATNN!NNATC	2	2249; 3446
BseLI	CCNNNNN!NNGG	26	49; 792; 1032; 1072; 1169; 1275; 1633; 1746; 1912; 1978; 2121; 2599; 2925; 3317; 3568; 4112; 4393; 4425; 4557; 4592; 4642; 4674; 5027; 5306; 5472; 5490
BseMI	GCAATGNN!	2	1185; 3820
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	3	620; 1409; 4713
BseMII	!NNNNNNNNNCTGAG	9	685; 1165; 1436; 1772; 3058; 3360; 4241; 4813; 5222
BseNI	ACTGGN!	5	2126; 2213; 3531; 3732; 4978
BseNI	C!CAGT	7	295; 683; 786; 2616; 3294; 5090; 5103
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	3405
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGC!C	8	821; 1579; 1606; 1639; 2216; 3533; 3626; 5195
BseXI	GCAGCNNNNNNNN!	10	787; 901; 1733; 2175; 2375; 3660; 3702; 4223; 4676; 5176
BseXI	!NNNNNNNNNNNGCTGC	8	869; 1852; 2869; 3534; 3718; 3811; 4877; 5083
BseX3I	C!GGCCG	2	2231; 3493
BseYI	C!CCAGC	3	3130; 3202; 5201
BseYI	G!CTGGG	2	1943; 4091
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNCTGCAC	1	718
Bsh1236I	CG!CG	16	60; 1038; 2236; 2511; 2887; 2907; 2931; 2962; 3653; 3954; 4392; 4476; 4539; 4608; 4881; 5462
Bsh1285I	CGRY!CG	4	1508; 2234; 3496; 5171
BshFI	GG!CC	35	84; 277; 655; 844; 1046; 1145; 1169; 1186; 1235; 1673; 1916; 1951; 1985; 2008; 2030; 2140; 2182; 2233; 2553; 2695; 3350; 3356; 3365; 3408; 3495; 3669; 4060; 4087; 4596; 4653; 4686; 5031; 5465; 5483; 5494
BshNI	G!GYRCC	6	465; 1576; 1636; 2740; 3586; 3621
BshTI	A!CCGGT	1	1503
BshVI	AT!CGAT	1	3427
BsiEI	CGRY!CG	4	1508; 2234; 3496; 5171
BsiHKAI	GWGCW!C	7	620; 821; 1355; 1606; 3700; 3890; 5195
BsiHKCI	C!YCGRG	1	613
BsiSI	C!CGG	22	601; 809; 1170; 1203; 1504; 2096; 2805; 3492; 3569; 3591; 3619; 3750; 3840; 3907; 4088; 4363; 4371; 4463; 4937; 5127; 5153; 5300
BsiWI	C!GTACG	0	
BslI	CCNNNNN!NNGG	26	49; 792; 1032; 1072; 1169; 1275; 1633; 1746; 1912; 1978; 2121; 2599; 2925; 3317; 3568; 4112; 4393; 4425; 4557; 4592; 4642; 4674; 5027; 5306; 5472; 5490

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsIF1	GGGACNNNNNNNNNN!	6	175; 326; 494; 3738; 4270; 4379
BsIF1	!NNNNNNNNNNNNNGTCCC	5	1119; 3103; 3175; 3239; 4534
BsmI	GAATGCN!	1	2338
BsmI	G!CATTC	2	1196; 2431
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	6	1234; 2143; 3011; 3429; 4448; 4576
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3738; 4270; 4379
BsmFI	!NNNNNNNNNNNNNGTCCC	5	1119; 3103; 3175; 3239; 4534
BsnI	GG!CC	35	84; 277; 655; 844; 1046; 1145; 1169; 1186; 1235; 1673; 1916; 1951; 1985; 2008; 2030; 2140; 2182; 2233; 2553; 2695; 3350; 3356; 3365; 3408; 3495; 3669; 4060; 4087; 4596; 4653; 4686; 5031; 5465; 5483; 5494
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	2	2143; 4576
BsoBI	C!YCGRG	1	613
Bsp13I	T!CCGGA	1	1202
Bsp19I	C!CATGG	5	360; 650; 1514; 3316; 4019
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	3	289; 1316; 4390
Bsp24I	!NNNNNNCCANNNNNGTC	2	4811; 4989
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4843; 5021
Bsp24I	!NNNNNNNGACNNNNNTGG	3	257; 1284; 4358
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 4269
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	25	585; 609; 1077; 1082; 1497; 1886; 2036; 2062; 2244; 3424; 3428; 3447; 3758; 3836; 3917; 3926; 4004; 4380; 4396; 4755; 4767; 4845; 4853; 4864; 4939
Bsp1286I	GDGCH!C	15	620; 821; 1355; 1579; 1606; 1639; 2216; 2778; 3533; 3626; 3700; 3890; 3952; 4662; 5195
Bsp1407I	T!GTACA	1	1565
Bsp1720I	GC!TNAGC	1	1174
BspACI	C!CGC	35	58; 86; 98; 112; 279; 507; 589; 1835; 1973; 2075; 2234; 2902; 2905; 2919; 3009; 3257; 3269; 3278; 3290; 3300; 3311; 3357; 3496; 3559; 4061; 4106; 4172; 4198; 4323; 4326; 4474; 4606; 4913; 5057; 5553
BspACI	G!CGG	29	370; 403; 528; 1038; 1232; 1670; 1982; 2024; 2230; 2847; 2874; 2962; 3072; 3653; 3717; 3818; 3821; 4101; 4156; 4254; 4392; 4539; 4679; 4922; 5167; 5288; 5307; 5434; 5462
BspCNI	CTCAGNNNNNNNN!	3	619; 1408; 4712
BspCNI	!NNNNNNCTGAG	9	686; 1166; 1437; 1773; 3059; 3361; 4242; 4814; 5223
BspDI	AT!CGAT	1	3427
BspD6I	GACTCNNNN!	7	418; 612; 735; 2246; 2660; 4266; 5143
BspD6I	!NNNNNGAGTC	4	689; 1795; 2623; 3055
BspEI	T!CCGGA	1	1202
BspFNI	CG!CG	16	60; 1038; 2236; 2511; 2887; 2907; 2931; 2962; 3653; 3954; 4392; 4476; 4539; 4608; 4881; 5462
BspHI	T!CATGA	2	3013; 4785
BspLI	GGN!NCC	19	467; 1187; 1499; 1578; 1638; 2029; 2742; 2763; 2775; 2966; 3127; 3199; 3588; 3623; 4471; 4550; 4595; 5438; 5477
BspMI	ACCTGCNNNN!	2	3855; 4305
BspMI	!NNNNNNNGCAGGT	1	3474
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	1505; 3455; 3766; 4012; 4404; 4763; 4861; 4947
BspPI	!NNNNNGATCC	7	580; 1492; 2057; 3831; 4375; 4762; 4859
BspQI	GCTCTCN!	1	808
BspQI	!NNNNGAAGAGC	4	1457; 1526; 3931; 4141
BspTI	C!TTAAG	1	2469
BspT104I	TT!CGAA	2	627; 4269
BspT107I	G!GYRCC	6	465; 1576; 1636; 2740; 3586; 3621
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	2	2143; 4576
BsrI	ACTGGN!	5	2126; 2213; 3531; 3732; 4978
BsrI	C!CAGT	7	295; 683; 786; 2616; 3294; 5090; 5103
BsrBI	CCG!CTC	2	3011; 4200

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrBI	GAG!CGG	3	2230; 2847; 4254
BsrDI	GCAATGNN!	2	1185; 3820
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	6	1169; 1503; 2804; 3906; 4087; 4370
BsrGI	T!GTACA	1	1565
BsrSI	ACTGGN!	5	2126; 2213; 3531; 3732; 4978
BsrSI	C!CAGT	7	295; 683; 786; 2616; 3294; 5090; 5103
BssAI	R!CCGGY	6	1169; 1503; 2804; 3906; 4087; 4370
BssECl	C!CNNGG	23	360; 650; 807; 1071; 1514; 1610; 1745; 1746; 1841; 3121; 3193; 3316; 3351; 3360; 3409; 3750; 4019; 4424; 4551; 4552; 4654; 4655; 5345
BssHII	G!CGCGC	0	
BssKI	!CCNGG	28	88; 281; 807; 839; 1046; 1071; 1361; 1481; 1493; 1697; 1745; 1841; 1856; 1985; 2094; 3121; 3176; 3193; 3589; 3749; 3972; 4362; 4551; 4654; 5126; 5344; 5357; 5478
BssMI	!GATC	25	585; 609; 1077; 1082; 1497; 1886; 2036; 2062; 2244; 3424; 3428; 3447; 3758; 3836; 3917; 3926; 4004; 4380; 4396; 4755; 4767; 4845; 4853; 4864; 4939
BssNI	GR!CGYC	9	122; 175; 258; 444; 1132; 2099; 3587; 4289; 4368
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	2167; 4305; 5332
BssSI	C!TCGTG	2	2017; 4179
BssT1I	C!CWWGG	7	360; 650; 1514; 3316; 3409; 4019; 4424
Bst6I	CTCTCN!	1	808
Bst6I	!NNNNGAAGAG	5	1457; 1526; 3054; 3931; 4141
Bst98I	C!TTAAG	1	2469
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 1132; 2099; 3587; 4289; 4368
BstAFI	C!TTAAG	1	2469
BstAPI	GCANNNN!NTGC	3	3154; 3226; 4688
BstAUI	T!GTACA	1	1565
BstBI	TT!CGAA	2	627; 4269
Bst2BI	C!ACGAG	3	2167; 4305; 5332
Bst2BI	C!TCGTG	2	2017; 4179
BstBAI	YAC!GTR	3	340; 2703; 3891
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 1296; 1581; 2678; 3967; 4083; 4191; 4514; 5005; 5475; 5546
BstC8I	GCN!NGC	32	86; 279; 593; 713; 887; 1034; 1171; 1624; 1828; 2806; 2849; 2863; 3136; 3155; 3208; 3227; 3481; 3667; 3886; 3952; 3958; 3990; 4035; 4089; 4372; 4559; 4606; 4662; 4684; 4895; 5455; 5492
BstDEI	C!TNAG	14	606; 694; 1174; 1395; 1445; 1523; 1781; 2078; 3067; 3369; 4250; 4699; 4822; 5231
BstDSI	C!CRYGG	5	360; 650; 1514; 3316; 4019
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	1	1070
BstF5I	GGATGNN!	5	1305; 3447; 3904; 3929; 4383
BstF5I	!CATCC	7	863; 1409; 1606; 1694; 1751; 1906; 3273
BstFNI	CG!CG	16	60; 1038; 2236; 2511; 2887; 2907; 2931; 2962; 3653; 3954; 4392; 4476; 4539; 4608; 4881; 5462
BstH2I	RGCGC!Y	6	598; 1060; 2854; 2862; 3590; 5265
BstHHI	GCG!C	23	597; 1038; 1059; 2853; 2861; 2887; 2909; 2918; 2931; 2962; 3581; 3589; 3653; 3690; 3956; 4216; 4392; 4478; 4881; 4990; 5164; 5264; 5331
BstKTI	GAT!C	25	588; 612; 1080; 1085; 1500; 1889; 2039; 2065; 2247; 3427; 3431; 3450; 3761; 3839; 3920; 3929; 4007; 4383; 4399; 4758; 4770; 4848; 4856; 4867; 4942
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	6	1234; 2143; 3011; 3429; 4448; 4576
BstMBI	!GATC	25	585; 609; 1077; 1082; 1497; 1886; 2036; 2062; 2244; 3424; 3428; 3447; 3758; 3836; 3917; 3926; 4004; 4380; 4396; 4755; 4767; 4845; 4853; 4864; 4939
BstMCI	CGRY!CG	4	1508; 2234; 3496; 5171
BstMWI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 652; 1038; 1175; 1406; 1560; 1991; 2814; 2844; 2871; 2913; 3154; 3226; 3277; 3356; 3578; 3662; 3685; 3824; 3947; 4030; 4297; 4484; 4688; 4887; 5459

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstNI	CC!WGG	22	90; 283; 841; 1048; 1073; 1363; 1483; 1495; 1699; 1747; 1843; 1858; 1987; 3123; 3178; 3195; 3974; 4553; 4656; 5346; 5359; 5480
BstNSI	RCATG!Y	7	801; 1158; 1554; 3157; 3229; 3992; 5509
BstOI	CC!WGG	22	90; 283; 841; 1048; 1073; 1363; 1483; 1495; 1699; 1747; 1843; 1858; 1987; 3123; 3178; 3195; 3974; 4553; 4656; 5346; 5359; 5480
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	2155
BstSCI	!CCNGG	28	88; 281; 807; 839; 1046; 1071; 1361; 1481; 1493; 1697; 1745; 1841; 1856; 1985; 2094; 3121; 3176; 3193; 3589; 3749; 3972; 4362; 4551; 4654; 5126; 5344; 5357; 5478
BstSFI	C!TRYAG	5	634; 926; 2922; 5049; 5240
BstSLI	GKGCMI!C	8	821; 1579; 1606; 1639; 2216; 3533; 3626; 5195
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	16	60; 1038; 2236; 2511; 2887; 2907; 2931; 2962; 3653; 3954; 4392; 4476; 4539; 4608; 4881; 5462
Bst2UI	CC!WGG	22	90; 283; 841; 1048; 1073; 1363; 1483; 1495; 1699; 1747; 1843; 1858; 1987; 3123; 3178; 3195; 3974; 4553; 4656; 5346; 5359; 5480
BstV1I	GCAGCNNNNNNNN!	10	787; 901; 1733; 2175; 2375; 3660; 3702; 4223; 4676; 5176
BstV1I	!NNNNNNNNNNNGCTGC	8	869; 1852; 2869; 3534; 3718; 3811; 4877; 5083
BstV2I	GAAGACNN!	2	1484; 1823
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	12	585; 609; 1082; 1497; 2062; 3758; 4004; 4396; 4755; 4767; 4853; 4864
BstYI	R!GATCY	12	585; 609; 1082; 1497; 2062; 3758; 4004; 4396; 4755; 4767; 4853; 4864
BstZI	C!GGCCG	2	2231; 3493
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3016; 3806; 5307
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3427
Bsu36I	CC!TNAGG	4	1445; 1781; 3067; 4699
BsuRI	GG!CC	35	84; 277; 655; 844; 1046; 1145; 1169; 1186; 1235; 1673; 1916; 1951; 1985; 2008; 2030; 2140; 2182; 2233; 2553; 2695; 3350; 3356; 3365; 3408; 3495; 3669; 4060; 4087; 4596; 4653; 4686; 5031; 5465; 5483; 5494
BsuTUI	AT!CGAT	1	3427
BtgI	C!CRYGG	5	360; 650; 1514; 3316; 4019
BtgZI	GCGATGNNNNNNNNNN!	2	2704; 4039
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3858; 4202
BthCI	GCNG!C	39	778; 885; 892; 1041; 1235; 1673; 1724; 1868; 1985; 2166; 2233; 2236; 2366; 2885; 2907; 2921; 3359; 3498; 3550; 3561; 3651; 3656; 3693; 3734; 3821; 3827; 4063; 4159; 4200; 4214; 4328; 4667; 4682; 4893; 5099; 5102; 5167; 5310; 5465
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2426
BtsCI	GGATGNN!	5	1305; 3447; 3904; 3929; 4383
BtsCI	!CATCC	7	863; 1409; 1606; 1694; 1751; 1906; 3273
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3855; 4305
BveI	!NNNNNNNNGCAGGT	1	3474
Cac8I	GCN!NGC	32	86; 279; 593; 713; 887; 1034; 1171; 1624; 1828; 2806; 2849; 2863; 3136; 3155; 3208; 3227; 3481; 3667; 3886; 3952; 3958; 3990; 4035; 4089; 4372; 4559; 4606; 4662; 4684; 4895; 5455; 5492
CaiI	CAGNNN!CTG	3	2189; 4688; 5096
CciI	T!CATGA	2	3013; 4785
CciNI	GC!GGCCGC	1	2231
CdiI	CATC!G	6	352; 1350; 3876; 3881; 4079; 4220
CdiI	C!GATG	3	1452; 2690; 4025
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	5459
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3248; 3290



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CelII	GC!TNAGC	1	1174
CfoI	GCG!C	23	597; 1038; 1059; 2853; 2861; 2887; 2909; 2918; 2931; 2962; 3581; 3589; 3653; 3690; 3956; 4216; 4392; 4478; 4881; 4990; 5164; 5264; 5331
CfrI	Y!GGCCR	9	653; 1167; 1233; 2180; 2231; 3493; 3667; 4058; 4085
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	6	1169; 1503; 2804; 3906; 4087; 4370
Cfr13I	G!GNCC	16	83; 276; 1044; 1144; 1185; 1672; 1915; 2007; 2028; 2112; 2694; 4103; 4548; 4594; 4652; 4685
Cfr42I	CCGC!GG	0	
ChaI	GATC!	25	589; 613; 1081; 1086; 1501; 1890; 2040; 2066; 2248; 3428; 3432; 3451; 3762; 3840; 3921; 3930; 4008; 4384; 4400; 4759; 4771; 4849; 4857; 4868; 4943
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	6	1507; 1618; 3404; 4844; 4944; 5022
CjeI	!NNNNNNNNNACNNNNNNNTGG	9	64; 257; 1262; 1284; 3071; 3166; 4358; 4908; 5463
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	8	98; 291; 1296; 3105; 3200; 4392; 4942; 5497
CjeI	!NNNNNNNNCCANNNNNNGT	6	1473; 1584; 3370; 4810; 4910; 4988
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	3	708; 4844; 5022
CjePI	!NNNNNNNNGANNNNNNNTGG	7	257; 1092; 1284; 1643; 1988; 4358; 4957
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	7	290; 1125; 1317; 1676; 2021; 4391; 4990
CjePI	!NNNNNNNNCCANNNNNNNNTC	3	675; 4811; 4989
Clal	AT!CGAT	1	3427
CpoI	CG!GWCCG	1	4103
CseI	GACGCNNNNN!	4	526; 1006; 4297; 4376
CseI	!NNNNNNNNNNGCGTC	4	2088; 2920; 4815; 5393
CsiI	A!CCWGGT	1	3176
CspI	CG!GWCCG	1	4103
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 666; 1491; 1566; 1716; 1968; 3892
Csp45I	TT!CGAA	2	627; 4269
CspAI	A!CCGGT	1	1503
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	1568; 2159; 2867; 4476
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	32	301; 361; 651; 703; 716; 792; 798; 856; 1155; 1237; 1369; 1515; 1551; 1557; 1569; 1647; 1713; 1793; 2004; 3014; 3154; 3226; 3317; 3458; 3803; 3989; 4020; 4046; 4402; 4786; 5506; 5557
CviJI	RG!CY	111	42; 84; 93; 277; 566; 618; 624; 655; 762; 778; 812; 844; 892; 1046; 1145; 1169; 1173; 1186; 1222; 1235; 1275; 1290; 1305; 1353; 1385; 1536; 1563; 1626; 1673; 1702; 1709; 1787; 1853; 1865; 1916; 1943; 1951; 1985; 2008; 2016; 2030; 2140; 2176; 2182; 2233; 2256; 2366; 2533; 2553; 2695; 2776; 2790; 2804; 3085; 3126; 3198; 3321; 3350; 3356; 3365; 3373; 3396; 3408; 3414; 3495; 3512; 3520; 3547; 3572; 3656; 3665; 3669; 3693; 3731; 3807; 3824; 3843; 3906; 3950; 3960; 3977; 4060; 4087; 4091; 4128; 4151; 4167; 4347; 4374; 4435; 4557; 4596; 4653; 4660; 4667; 4686; 4697; 4948; 4977; 5020; 5031; 5096; 5175; 5200; 5205; 5251; 5341; 5439; 5465; 5483; 5494
CviKI-1	RG!CY	111	42; 84; 93; 277; 566; 618; 624; 655; 762; 778; 812; 844; 892; 1046; 1145; 1169; 1173; 1186; 1222; 1235; 1275; 1290; 1305; 1353; 1385; 1536; 1563; 1626; 1673; 1702; 1709; 1787; 1853; 1865; 1916; 1943; 1951; 1985; 2008; 2016; 2030; 2140; 2176; 2182; 2233; 2256; 2366; 2533; 2553; 2695; 2776; 2790; 2804; 3085; 3126; 3198; 3321; 3350; 3356; 3365; 3373; 3396; 3408; 3414; 3495; 3512; 3520; 3547; 3572; 3656; 3665; 3669; 3693; 3731; 3807; 3824; 3843; 3906; 3950; 3960; 3977; 4060; 4087; 4091; 4128; 4151; 4167; 4347; 4374; 4435; 4557; 4596; 4653; 4660; 4667; 4686; 4697; 4948; 4977; 5020; 5031; 5096; 5175; 5200; 5205; 5251; 5341; 5439; 5465; 5483; 5494
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 666; 1491; 1566; 1716; 1968; 3892
DdeI	C!TNAG	14	606; 694; 1174; 1395; 1445; 1523; 1781; 2078; 3067; 3369; 4250; 4699; 4822; 5231
DinI	GGC!GCC	1	3588

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DpnI	GA!TC	25	587; 611; 1079; 1084; 1499; 1888; 2038; 2064; 2246; 3426; 3430; 3449; 3760; 3838; 3919; 3928; 4006; 4382; 4398; 4757; 4769; 4847; 4855; 4866; 4941
DpnII	!GATC	25	585; 609; 1077; 1082; 1497; 1886; 2036; 2062; 2244; 3424; 3428; 3447; 3758; 3836; 3917; 3926; 4004; 4380; 4396; 4755; 4767; 4845; 4853; 4864; 4939
DraI	TTT!AAA	3	2289; 4731; 4750
DraII	RG!GNCCY	1	4685
DraIII	CACNNN!GTG	2	2172; 2703
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	2	266; 5067
DraRI	!NNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	2658; 3614; 5403
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2658; 3614; 5403
EaeI	Y!GGCCR	9	653; 1167; 1233; 2180; 2231; 3493; 3667; 4058; 4085
EagI	C!GGCCG	2	2231; 3493
Eam1104I	CTCTCN!	1	808
Eam1104I	!NNNNGAAGAG	5	1457; 1526; 3054; 3931; 4141
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	1	808
EarI	!NNNNGAAGAG	5	1457; 1526; 3054; 3931; 4141
EciI	GGCGGANNNNNNNNNNNN!	4	3087; 4116; 5303; 5449
EciI	!NNNNNNNNNTCCGCC	4	496; 3258; 3279; 3300
Ecl136II	GAG!CTC	2	618; 1353
EclXI	C!GGCCG	2	2231; 3493
Eco24I	GRGCY!C	5	620; 1355; 2778; 3952; 4662
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	2	2143; 4576
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	3	2112; 4103; 4548
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	2231; 3493
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	2032; 3733; 4165
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	1314; 4963
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	4	1445; 1781; 3067; 4699
Eco88I	C!YCGRG	1	613
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	7	360; 650; 1514; 3316; 3409; 4019; 4424
Eco147I	AGG!CCT	1	3408
EcoHI	!CCSGG	6	807; 2094; 3589; 3749; 4362; 5126
EcoICRI	GAG!CTC	2	618; 1353
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	5	1327; 2032; 3733; 4165; 4427
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	4	1314; 1840; 4370; 4963
EcoNI	CCTNN!NNNAGG	1	1070
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	4685
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	22	88; 281; 839; 1046; 1071; 1361; 1481; 1493; 1697; 1745; 1841; 1856; 1985; 3121; 3176; 3193; 3972; 4551; 4654; 5344; 5357; 5478
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	7	360; 650; 1514; 3316; 3409; 4019; 4424
EcoT22I	ATGCA!T	3	3159; 3231; 5562
EcoT38I	GRGCY!C	5	620; 1355; 2778; 3952; 4662
Eco53kI	GAG!CTC	2	618; 1353
EgeI	GGC!GCC	1	3588
EheI	GGC!GCC	1	3588
ErhI	C!CWWGG	7	360; 650; 1514; 3316; 3409; 4019; 4424
EsaBC3I	TC!GA	18	615; 628; 641; 1350; 1665; 1692; 2160; 2737; 3428; 3701; 3857; 3881; 3917; 4079; 4270; 4315; 4570; 5408
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FaeI	CATG!	32	304; 364; 654; 706; 719; 795; 801; 859; 1158; 1240; 1372; 1518; 1554; 1560; 1572; 1650; 1716; 1796; 2007; 3017; 3157; 3229; 3320; 3461; 3806; 3992; 4023; 4049; 4405; 4789; 5509; 5560
FaiI	YA!TR	75	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 652; 704; 709; 717; 746; 793; 799; 857; 1007; 1156; 1238; 1370; 1418; 1516; 1552; 1558; 1570; 1648; 1714; 1794; 1812; 2005; 2058; 2108; 2249; 2259; 2325; 2370; 2575; 3003; 3015; 3146; 3155; 3218; 3227; 3251; 3318; 3342; 3459; 3523; 3804; 3829; 3990; 4021; 4047; 4119; 4335; 4403; 4481; 4533; 4694; 4711; 4713; 4715; 4787; 5065; 5254; 5370; 5443; 5507; 5558
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	3	1008; 1791; 3927
FalI	!NNNNNNNNAAGNNNNNCTT	3	976; 1759; 3895
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3738; 4270; 4379
FaqI	!NNNNNNNNNNNNNGTCCC	5	1119; 3103; 3175; 3239; 4534
FatI	!CATG	32	300; 360; 650; 702; 715; 791; 797; 855; 1154; 1236; 1368; 1514; 1550; 1556; 1568; 1646; 1712; 1792; 2003; 3013; 3153; 3225; 3316; 3457; 3802; 3988; 4019; 4045; 4401; 4785; 5505; 5556
FauI	CCCGCNNNN!	10	93; 119; 286; 1980; 2082; 2909; 3264; 3285; 4481; 4613
FauI	!NNNNNNNGCGGG	6	2017; 2840; 3710; 4247; 4385; 4532
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	1077
FblI	GT!MKAC	2	640; 2102
FmuI	GGNC!C	16	86; 279; 1047; 1147; 1188; 1675; 1918; 2010; 2031; 2115; 2697; 4106; 4551; 4597; 4655; 4688
Fnu4HI	GC!NGC	39	776; 883; 890; 1039; 1233; 1671; 1722; 1866; 1983; 2164; 2231; 2234; 2364; 2883; 2905; 2919; 3357; 3496; 3548; 3559; 3649; 3654; 3691; 3732; 3819; 3825; 4061; 4157; 4198; 4212; 4326; 4665; 4680; 4891; 5097; 5100; 5165; 5308; 5463
FokI	GGATGNNNNNNNNN!	5	1312; 3454; 3911; 3936; 4390
FokI	!NNNNNNNNNNNNNCATCC	7	850; 1396; 1593; 1681; 1738; 1893; 3260
FriOI	GRGCY!C	5	620; 1355; 2778; 3952; 4662
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3689
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	10	592; 850; 2201; 2242; 2436; 2854; 3410; 4425; 4759; 5012
FspEI	CCNNNNNNNNNNNN!	184	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 660; 684; 715; 744; 762; 792; 820; 853; 880; 938; 967; 1039; 1060; 1076; 1110; 1136; 1150; 1176; 1200; 1216; 1236; 1263; 1282; 1375; 1399; 1426; 1454; 1495; 1514; 1593; 1623; 1640; 1654; 1687; 1701; 1719; 1743; 1758; 1788; 1821; 1848; 1863; 1882; 1918; 1965; 1984; 1999; 2022; 2044; 2067; 2087; 2108; 2128; 2154; 2196; 2212; 2247; 2270; 2309; 2323; 2464; 2559; 2583; 2606; 2629; 2647; 2669; 2690; 2709; 2728; 2757; 2778; 2792; 2818; 2906; 2932; 2981; 3022; 3040; 3079; 3095; 3133; 3190; 3205; 3262; 3282; 3296; 3313; 3327; 3364; 3379; 3422; 3505; 3572; 3603; 3623; 3638; 3683; 3697; 3763; 3777; 3796; 3812; 3853; 3873; 3920; 3970; 3986; 4006; 4031; 4051; 4074; 4101; 4119; 4145; 4185; 4211; 4235; 4291; 4305; 4333; 4376; 4397; 4432; 4476; 4564; 4588; 4610; 4630; 4646; 4667; 4681; 4700; 4784; 4804; 4832; 4847; 4881; 4923; 4950; 4965; 5010; 5034; 5048; 5070; 5096; 5116; 5140; 5166; 5214; 5233; 5252; 5278; 5313; 5358; 5388; 5402; 5453; 5467; 5492; 5508; 5529; 5558
FspEI	!NNNNNNNNNNNNNNNGG	153	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 637; 702; 755; 778; 810; 862; 889; 929; 963; 995; 1018; 1058; 1094; 1113; 1151; 1188; 1214; 1261; 1282; 1348; 1382; 1411; 1432; 1468; 1489; 1510; 1528; 1555; 1597; 1618; 1642; 1684; 1703; 1732; 1768; 1805; 1828; 1847; 1877; 1898; 1925; 1964; 1990; 2009; 2081; 2107; 2155; 2194; 2215; 2258; 2358; 2427; 2457; 2535; 2584; 2606; 2634; 2670; 2715; 2744; 2780; 2799; 2827; 2847; 2910; 2933; 3041; 3073; 3091; 3120; 3163; 3192; 3303; 3332; 3375; 3396; 3424; 3457; 3477; 3502; 3529; 3554; 3576; 3604; 3630; 3651; 3702; 3723; 3741; 3789; 3825; 3881; 3906; 3930; 3959; 3982; 4006; 4032; 4054; 4073; 4098; 4138; 4174; 4239; 4324; 4348; 4377; 4411; 4432; 4452; 4497; 4524; 4543; 4576; 4628; 4659; 4686; 4738; 4836; 4907; 4952; 5013; 5078; 5112; 5138; 5156; 5192; 5262; 5285; 5307; 5331; 5364; 5412; 5447; 5465; 5522

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fsp4HI	GC!NGC	39	776; 883; 890; 1039; 1233; 1671; 1722; 1866; 1983; 2164; 2231; 2234; 2364; 2883; 2905; 2919; 3357; 3496; 3548; 3559; 3649; 3654; 3691; 3732; 3819; 3825; 4061; 4157; 4198; 4212; 4326; 4665; 4680; 4891; 5097; 5100; 5165; 5308; 5463
GdiII	C!GGCCR	3	1233; 2231; 3493
GdiII	Y!GGCCG	6	653; 1167; 2231; 3493; 4058; 4085
GlaI	GC!GC	23	596; 1037; 1058; 2852; 2860; 2886; 2908; 2917; 2930; 2961; 3580; 3588; 3652; 3689; 3955; 4215; 4391; 4477; 4880; 4989; 5163; 5263; 5330
Glul	GC!NGC	39	776; 883; 890; 1039; 1233; 1671; 1722; 1866; 1983; 2164; 2231; 2234; 2364; 2883; 2905; 2919; 3357; 3496; 3548; 3559; 3649; 3654; 3691; 3732; 3819; 3825; 4061; 4157; 4198; 4212; 4326; 4665; 4680; 4891; 5097; 5100; 5165; 5308; 5463
GsaI	CCCAG!C	3	3134; 3206; 5205
GsaI	GCTGG!G	2	1947; 4095
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	2	1327; 4427
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	1840; 4370
HaeI	WGG!CCW	8	844; 1951; 2182; 3408; 3669; 5031; 5483; 5494
HaeII	RGCGC!Y	6	598; 1060; 2854; 2862; 3590; 5265
HaeIII	GG!CC	35	84; 277; 655; 844; 1046; 1145; 1169; 1186; 1235; 1673; 1916; 1951; 1985; 2008; 2030; 2140; 2182; 2233; 2553; 2695; 3350; 3356; 3365; 3408; 3495; 3669; 4060; 4087; 4596; 4653; 4686; 5031; 5465; 5483; 5494
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2262; 3783
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2228; 3749
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2261; 3782
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2230; 3751
HapII	C!CGG	22	601; 809; 1170; 1203; 1504; 2096; 2805; 3492; 3569; 3591; 3619; 3750; 3840; 3907; 4088; 4363; 4371; 4463; 4937; 5127; 5153; 5300
HgaI	GACGCNNNNN!	4	526; 1006; 4297; 4376
HgaI	!NNNNNNNNNGCGTC	4	2088; 2920; 4815; 5393
HhaI	GCG!C	23	597; 1038; 1059; 2853; 2861; 2887; 2909; 2918; 2931; 2962; 3581; 3589; 3653; 3690; 3956; 4216; 4392; 4478; 4881; 4990; 5164; 5264; 5331
HinI	GR!CGYC	9	122; 175; 258; 444; 1132; 2099; 3587; 4289; 4368
HinII	CATG!	32	304; 364; 654; 706; 719; 795; 801; 859; 1158; 1240; 1372; 1518; 1554; 1560; 1572; 1650; 1716; 1796; 2007; 3017; 3157; 3229; 3320; 3461; 3806; 3992; 4023; 4049; 4405; 4789; 5509; 5560
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	2261; 3782
Hin4I	!NNNNNNNGABNNNNNRTC	3	2229; 3750; 3780
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	2261; 3782; 3812
Hin4I	!NNNNNNNGAYNNNNNVTC	2	2229; 3750
Hin6I	G!CGC	23	595; 1036; 1057; 2851; 2859; 2885; 2907; 2916; 2929; 2960; 3579; 3587; 3651; 3688; 3954; 4214; 4390; 4476; 4879; 4988; 5162; 5262; 5329
HinP1I	G!CGC	23	595; 1036; 1057; 2851; 2859; 2885; 2907; 2916; 2929; 2960; 3579; 3587; 3651; 3688; 3954; 4214; 4390; 4476; 4879; 4988; 5162; 5262; 5329
HincII	GTY!RAC	4	641; 723; 912; 2350
HindII	GTY!RAC	4	641; 723; 912; 2350
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	20	410; 604; 696; 727; 1209; 1433; 1652; 1802; 2129; 2238; 2630; 2652; 3062; 4072; 4206; 4258; 4316; 4353; 5135; 5531
HpaI	GTT!AAC	1	2350
HpaII	C!CGG	22	601; 809; 1170; 1203; 1504; 2096; 2805; 3492; 3569; 3591; 3619; 3750; 3840; 3907; 4088; 4363; 4371; 4463; 4937; 5127; 5153; 5300
HphI	GGTGANNNNNNNN!	5	376; 1087; 1908; 4658; 4774
HphI	!NNNNNNNTCACC	3	1797; 2704; 3765
Hpy8I	GTN!NAC	19	201; 539; 577; 641; 666; 723; 819; 912; 1281; 1584; 1604; 1899; 2103; 2112; 2350; 2634; 2651; 2706; 5193
Hpy99I	CGWCG!	8	2161; 3677; 3705; 3999; 4014; 4291; 4676; 5409
Hpy166II	GTN!NAC	19	201; 539; 577; 641; 666; 723; 819; 912; 1281; 1584; 1604; 1899; 2103; 2112; 2350; 2634; 2651; 2706; 5193
Hpy188I	TCN!GA	16	585; 609; 695; 1082; 1611; 1891; 2761; 3370; 3554; 3898; 4251; 4352; 4831; 4965; 5318; 5396

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hpy188III	TC!NNGA	28	613; 897; 1203; 1258; 1342; 1884; 2049; 2088; 2242; 3014; 3066; 3379; 3432; 3605; 3921; 3930; 4013; 4069; 4113; 4203; 4236; 4305; 4786; 4860; 4943; 5041; 5139; 5273
HpyAV	CCTTCNNNNNN!	6	1692; 1740; 1785; 4232; 4339; 5018
HpyAV	!NNNNNGAAGG	11	1305; 1423; 1612; 1984; 2820; 3715; 4444; 4460; 4643; 4960; 5270
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 1296; 1581; 2678; 3967; 4083; 4191; 4514; 5005; 5475; 5546
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 1052; 1132; 1317; 1880; 2156; 2647; 2659; 2702; 2812; 3703; 3890; 4671; 4804
HpyCH4V	TG!CA	27	636; 715; 735; 819; 885; 1158; 1196; 1554; 1604; 1926; 2042; 2336; 2363; 2431; 3148; 3157; 3220; 3229; 3344; 3420; 3479; 3638; 3813; 3827; 4897; 5193; 5560
HpyF3I	C!TNAG	14	606; 694; 1174; 1395; 1445; 1523; 1781; 2078; 3067; 3369; 4250; 4699; 4822; 5231
HpyF10VI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 652; 1038; 1175; 1406; 1560; 1991; 2814; 2844; 2871; 2913; 3154; 3226; 3277; 3356; 3578; 3662; 3685; 3824; 3947; 4030; 4297; 4484; 4688; 4887; 5459
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 1132; 2099; 3587; 4289; 4368
Hsp92II	CATG!	32	304; 364; 654; 706; 719; 795; 801; 859; 1158; 1240; 1372; 1518; 1554; 1560; 1572; 1650; 1716; 1796; 2007; 3017; 3157; 3229; 3320; 3461; 3806; 3992; 4023; 4049; 4405; 4789; 5509; 5560
HspAI	G!CGC	23	595; 1036; 1057; 2851; 2859; 2885; 2907; 2916; 2929; 2960; 3579; 3587; 3651; 3688; 3954; 4214; 4390; 4476; 4879; 4988; 5162; 5262; 5329
KasI	G!GCGCC	1	3586
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	0	
Kpn2I	T!CCGGA	1	1202
KspI	CCGC!GG	0	
Ksp22I	T!GATCA	1	1077
KspAI	GTT!AAC	1	2350
Kzo9I	!GATC	25	585; 609; 1077; 1082; 1497; 1886; 2036; 2062; 2244; 3424; 3428; 3447; 3758; 3836; 3917; 3926; 4004; 4380; 4396; 4755; 4767; 4845; 4853; 4864; 4939
LguI	GCTCTTCN!	1	808
LguI	!NNNNGAAGAGC	4	1457; 1526; 3931; 4141
LpnI	RGC!GCV	6	596; 1058; 2852; 2860; 3588; 5263
LpnPI	CCDGNNNNNNNNN!	74	102; 295; 614; 696; 745; 799; 822; 853; 938; 1060; 1085; 1183; 1206; 1375; 1400; 1457; 1495; 1517; 1654; 1711; 1759; 1793; 1855; 1870; 1931; 1999; 2023; 2047; 2109; 2196; 2324; 2629; 2818; 3041; 3079; 3095; 3135; 3190; 3207; 3307; 3392; 3505; 3582; 3604; 3627; 3763; 3777; 3796; 3853; 3920; 3970; 3986; 4043; 4101; 4310; 4376; 4400; 4476; 4565; 4668; 4701; 4932; 4950; 5096; 5116; 5140; 5166; 5215; 5313; 5358; 5388; 5467; 5492; 5529
LpnPI	!NNNNNNNNNNNNNCHGG	67	75; 268; 552; 586; 755; 794; 826; 1018; 1058; 1127; 1151; 1188; 1261; 1291; 1348; 1382; 1468; 1489; 1684; 1732; 1828; 1929; 1972; 2081; 2107; 2194; 2670; 2790; 2847; 2910; 3108; 3120; 3180; 3192; 3424; 3469; 3512; 3554; 3576; 3604; 3651; 3713; 3735; 3825; 3892; 3915; 3959; 4054; 4073; 4098; 4247; 4348; 4391; 4448; 4538; 4641; 4668; 4686; 4922; 4959; 5112; 5138; 5278; 5296; 5331; 5412; 5465
Lsp1109I	GCAGCNNNNNNNN!	10	787; 901; 1733; 2175; 2375; 3660; 3702; 4223; 4676; 5176
Lsp1109I	!NNNNNNNNNNNGCTGC	8	869; 1852; 2869; 3534; 3718; 3811; 4877; 5083
LweI	GCATCNNNNN!	9	1409; 1476; 1760; 2403; 3166; 3238; 3886; 3950; 4225
LweI	!NNNNNNNNNGATGC	9	357; 1236; 1913; 1952; 2081; 3545; 3800; 4016; 5408
MabI	A!CCWGGT	1	3176
MaeI	C!TAG	10	592; 850; 2201; 2242; 2436; 2854; 3410; 4425; 4759; 5012
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 1052; 1132; 1317; 1880; 2156; 2647; 2659; 2702; 2812; 3703; 3890; 4671; 4804
MaeIII	!GTNAC	16	61; 148; 497; 678; 1318; 1342; 1803; 2375; 2876; 2888; 3707; 4013; 4703; 4969; 5085; 5148
MaiI	GA!TC	25	587; 611; 1079; 1084; 1499; 1888; 2038; 2064; 2246; 3426; 3430; 3449; 3760; 3838; 3919; 3928; 4006; 4382; 4398; 4757; 4769; 4847; 4855; 4866; 4941
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	5	157; 240; 426; 638; 701

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	3011; 4200
MbiI	GAG!CGG	3	2230; 2847; 4254
MboI	!GATC	25	585; 609; 1077; 1082; 1497; 1886; 2036; 2062; 2244; 3424; 3428; 3447; 3758; 3836; 3917; 3926; 4004; 4380; 4396; 4755; 4767; 4845; 4853; 4864; 4939
MboII	GAAGANNNNNNNN!	12	912; 1218; 1474; 1489; 1543; 1828; 1941; 2843; 3071; 3948; 4158; 4777
MboII	!NNNNNNNTCTTC	6	795; 1077; 4238; 4405; 4605; 4848
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2337
MfII	R!GATCY	12	585; 609; 1082; 1497; 2062; 3758; 4004; 4396; 4755; 4767; 4853; 4864
MhII	GDGCH!C	15	620; 821; 1355; 1579; 1606; 1639; 2216; 2778; 3533; 3626; 3700; 3890; 3952; 4662; 5195
MIsI	TGG!CCA	2	2182; 3669
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	2182; 3669
MlyI	GAGTCNNNNN!	4	705; 1811; 2639; 3071
MlyI	!NNNNNGACTC	7	404; 598; 721; 2232; 2646; 4252; 5129
Mly113I	GG!CGCC	1	3587
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1934; 2680
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	5112; 5296
MnII	CCTCNNNNNNN!	18	748; 1037; 1073; 1173; 1223; 1423; 1685; 1864; 1879; 2095; 2206; 2306; 3370; 4188; 4394; 4708; 5078; 5402
MnII	!NNNNNNGAGG	26	541; 818; 1121; 1419; 1440; 1566; 1605; 1626; 1659; 1776; 1885; 1941; 2130; 2163; 2266; 2731; 3062; 3340; 3383; 3398; 3438; 3502; 3638; 3995; 4425; 5328
Mph1103I	ATGCA!T	3	3159; 3231; 5562
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1202
MroNI	G!CCGGC	4	1169; 2804; 4087; 4370
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	2	2182; 3669
MseI	T!TAA	19	7; 983; 1541; 1766; 2222; 2288; 2349; 2470; 2491; 2502; 2514; 2525; 2542; 2640; 2911; 4730; 4744; 4749; 4801
MslI	CAYNN!NNRTG	8	365; 676; 796; 1373; 1516; 1555; 1960; 4024
MspI	C!CGG	22	601; 809; 1170; 1203; 1504; 2096; 2805; 3492; 3569; 3591; 3619; 3750; 3840; 3907; 4088; 4363; 4371; 4463; 4937; 5127; 5153; 5300
Msp20I	TGG!CCA	2	2182; 3669
MspA1I	CMG!CKG	6	1275; 1975; 3085; 3693; 4922; 5167
MspCI	C!TTAAG	1	2469

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	282	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; 663; 684; 706; 724; 744; 761; 782; 798; 820; 834; 852; 868; 888; 909; 927; 966; 1011; 1045; 1059; 1078; 1093; 1109; 1125; 1138; 1152; 1167; 1182; 1205; 1235; 1249; 1262; 1276; 1296; 1318; 1347; 1362; 1375; 1399; 1434; 1449; 1486; 1500; 1516; 1535; 1549; 1563; 1581; 1611; 1629; 1644; 1659; 1677; 1710; 1725; 1753; 1768; 1792; 1805; 1821; 1839; 1853; 1869; 1882; 1896; 1917; 1930; 1951; 1964; 1984; 1998; 2016; 2029; 2046; 2061; 2078; 2098; 2128; 2145; 2165; 2179; 2195; 2212; 2227; 2247; 2260; 2275; 2294; 2311; 2324; 2365; 2379; 2392; 2410; 2448; 2463; 2481; 2522; 2546; 2566; 2584; 2605; 2628; 2660; 2675; 2697; 2715; 2728; 2749; 2766; 2779; 2792; 2808; 2821; 2851; 2866; 2891; 2909; 2922; 2937; 2961; 2975; 2999; 3024; 3040; 3078; 3094; 3133; 3147; 3161; 3189; 3205; 3219; 3233; 3262; 3275; 3296; 3305; 3327; 3357; 3373; 3391; 3421; 3444; 3468; 3492; 3511; 3539; 3565; 3581; 3594; 3617; 3631; 3651; 3664; 3678; 3697; 3711; 3724; 3740; 3755; 3768; 3784; 3799; 3815; 3840; 3859; 3875; 3888; 3901; 3919; 3933; 3947; 3963; 3985; 4001; 4020; 4042; 4058; 4081; 4100; 4114; 4130; 4144; 4164; 4180; 4193; 4215; 4248; 4262; 4282; 4295; 4309; 4363; 4376; 4399; 4412; 4431; 4448; 4475; 4511; 4544; 4563; 4588; 4609; 4636; 4649; 4666; 4680; 4695; 4711; 4771; 4796; 4812; 4834; 4847; 4861; 4892; 4906; 4931; 4949; 4964; 4977; 4996; 5009; 5024; 5053; 5072; 5090; 5115; 5130; 5149; 5165; 5184; 5202; 5218; 5232; 5251; 5278; 5301; 5323; 5342; 5357; 5370; 5387; 5407; 5434; 5447; 5466; 5491; 5514; 5528; 5541; 5558
MspJI	!NNNNNNNNNNNNYNG	234	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; 637; 662; 679; 698; 718; 736; 755; 772; 794; 826; 862; 883; 911; 941; 961; 980; 1015; 1033; 1058; 1084; 1128; 1151; 1168; 1188; 1205; 1223; 1244; 1262; 1288; 1317; 1336; 1355; 1373; 1392; 1421; 1441; 1460; 1480; 1501; 1528; 1555; 1585; 1609; 1627; 1651; 1670; 1692; 1732; 1753; 1779; 1799; 1828; 1870; 1904; 1925; 1945; 1972; 1990; 2007; 2025; 2053; 2074; 2093; 2119; 2141; 2164; 2187; 2213; 2239; 2268; 2297; 2339; 2422; 2457; 2484; 2507; 2536; 2580; 2602; 2634; 2670; 2687; 2708; 2745; 2765; 2782; 2799; 2834; 2852; 2870; 2887; 2911; 2933; 2960; 2988; 3014; 3052; 3073; 3090; 3108; 3131; 3152; 3180; 3203; 3224; 3242; 3263; 3280; 3303; 3327; 3347; 3365; 3387; 3418; 3440; 3466; 3485; 3502; 3530; 3549; 3568; 3586; 3604; 3625; 3647; 3671; 3704; 3724; 3742; 3763; 3789; 3816; 3833; 3850; 3867; 3893; 3915; 3937; 3955; 3975; 3994; 4016; 4054; 4074; 4098; 4118; 4138; 4165; 4189; 4222; 4241; 4269; 4291; 4320; 4348; 4373; 4392; 4411; 4432; 4449; 4466; 4497; 4524; 4544; 4567; 4587; 4624; 4641; 4660; 4686; 4706; 4745; 4772; 4791; 4809; 4846; 4864; 4905; 4923; 4949; 4966; 4998; 5027; 5055; 5076; 5099; 5118; 5139; 5157; 5174; 5192; 5218; 5239; 5259; 5279; 5297; 5318; 5344; 5361; 5380; 5399; 5428; 5447; 5465; 5484; 5502; 5520; 5543
MspR9I	CC!NGG	28	90; 283; 809; 841; 1048; 1073; 1363; 1483; 1495; 1699; 1747; 1843; 1858; 1987; 2096; 3123; 3178; 3195; 3591; 3751; 3974; 4364; 4553; 4656; 5128; 5346; 5359; 5480
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2337
MvaI	CC!WGG	22	90; 283; 841; 1048; 1073; 1363; 1483; 1495; 1699; 1747; 1843; 1858; 1987; 3123; 3178; 3195; 3974; 4553; 4656; 5346; 5359; 5480
Mva1269I	GAATGCN!	1	2338
Mva1269I	G!CATTC	2	1196; 2431
MvnI	CG!CG	16	60; 1038; 2236; 2511; 2887; 2907; 2931; 2962; 3653; 3954; 4392; 4476; 4539; 4608; 4881; 5462
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	31	90; 212; 244; 283; 376; 400; 652; 1038; 1175; 1406; 1560; 1991; 2814; 2844; 2871; 2913; 3154; 3226; 3277; 3356; 3578; 3662; 3685; 3824; 3947; 4030; 4297; 4484; 4688; 4887; 5459
NaeI	GCC!GGC	4	1171; 2806; 4089; 4372
NarI	GG!CGCC	1	3587
NciI	CC!SGG	6	809; 2096; 3591; 3751; 4364; 5128
NcoI	C!CATGG	5	360; 650; 1514; 3316; 4019
NdeI	CA!TATG	1	234

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeII	!GATC	25	585; 609; 1077; 1082; 1497; 1886; 2036; 2062; 2244; 3424; 3428; 3447; 3758; 3836; 3917; 3926; 4004; 4380; 4396; 4755; 4767; 4845; 4853; 4864; 4939
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	1643
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	1679
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	1169; 2804; 4087; 4370
NheI	G!CTAGC	1	591
NlaIII	CATG!	32	304; 364; 654; 706; 719; 795; 801; 859; 1158; 1240; 1372; 1518; 1554; 1560; 1572; 1650; 1716; 1796; 2007; 3017; 3157; 3229; 3320; 3461; 3806; 3992; 4023; 4049; 4405; 4789; 5509; 5560
NlaIV	GGN!NCC	19	467; 1187; 1499; 1578; 1638; 2029; 2742; 2763; 2775; 2966; 3127; 3199; 3588; 3623; 4471; 4550; 4595; 5438; 5477
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2419; 2734; 4326
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 1903; 5398
Nii3877I	CYCGR!G	1	617
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3376; 3812
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1919; 3341
NmeDI	RCCGGYNNNNNNN!	6	1181; 1515; 2816; 3918; 4099; 4382
NmeDI	!NNNNNNNNNNNNRCCGGY	6	1156; 1490; 2791; 3893; 4074; 4357
NmuCI	!GTSAC	7	678; 1318; 1342; 1803; 2876; 3707; 4013
NotI	GC!GGCCGC	1	2231
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3689
NsiI	ATGCA!T	3	3159; 3231; 5562
NspI	RCATG!Y	7	801; 1158; 1554; 3157; 3229; 3992; 5509
NspV	TT!CGAA	2	627; 4269
OliI	CACNN!NNGTG	2	676; 1516
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 668; 1493; 1568; 1718; 1970; 3894
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3157; 3229; 3992
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	3013; 4785
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1746; 4552; 4655
PauI	G!CGCGC	0	
PceI	AGG!CCT	1	3408
PciI	A!CATGT	1	5505
PciSI	GCTCTTCN!	1	808
PciSI	!NNNNGAAGAGC	4	1457; 1526; 3931; 4141
PcsI	WCGNNNN!NNNCGW	7	2165; 3881; 3958; 4201; 4275; 4668; 5186
PctI	GAATGCN!	1	2338
PctI	G!CATTC	2	1196; 2431
PdiI	GCC!GGC	4	1171; 2806; 4089; 4372
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	9	1209; 1433; 1652; 2129; 4072; 4206; 4316; 4353; 5531
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3705
PfIMI	CCANNNN!NTGG	3	792; 1275; 2121
PfoI	T!CCNGGA	2	1856; 4362
PhoI	GG!CC	35	84; 277; 655; 844; 1046; 1145; 1169; 1186; 1235; 1673; 1916; 1951; 1985; 2008; 2030; 2140; 2182; 2233; 2553; 2695; 3350; 3356; 3365; 3408; 3495; 3669; 4060; 4087; 4596; 4653; 4686; 5031; 5465; 5483; 5494
PinAI	A!CCGGT	1	1503
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	2	1243; 3968
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	3	1224; 3533; 3788
PleI	GAGTCNNNN!	4	704; 1810; 2638; 3070
PleI	!NNNNNGACTC	7	404; 598; 721; 2232; 2646; 4252; 5129
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmII	CAC!GTG	0	



Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2669
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	4799
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4831
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2637
PpsI	GAGTCNNNN!	4	704; 1810; 2638; 3070
PpsI	!NNNNNGACTC	7	404; 598; 721; 2232; 2646; 4252; 5129
Ppu10I	A!TGCAT	3	3155; 3227; 5558
Ppu21I	YAC!GTR	3	340; 2703; 3891
PpuMI	RG!GWCCY	0	
PscI	A!CATGT	1	5505
PshAI	GACNN!NNGTC	1	2155
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2370; 2575
Psp03I	GGWC!C	3	2115; 4106; 4551
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	22	88; 281; 839; 1046; 1071; 1361; 1481; 1493; 1697; 1745; 1841; 1856; 1985; 3121; 3176; 3193; 3972; 4551; 4654; 5344; 5357; 5478
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	2	620; 1355
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	22	88; 281; 839; 1046; 1071; 1361; 1481; 1493; 1697; 1745; 1841; 1856; 1985; 3121; 3176; 3193; 3972; 4551; 4654; 5344; 5357; 5478
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	19	467; 1187; 1499; 1578; 1638; 2029; 2742; 2763; 2775; 2966; 3127; 3199; 3588; 3623; 4471; 4550; 4595; 5438; 5477
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 3317; 4316
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	1	3719
PspPI	G!GNCC	16	83; 276; 1044; 1144; 1185; 1672; 1915; 2007; 2028; 2112; 2694; 4103; 4548; 4594; 4652; 4685
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	3140; 3212; 4718
PspPRI	!NNNNNNNNNNNNNNCTGRGG	5	1431; 1767; 2195; 3053; 4248
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	1	4688
PstI	CTGCA!G	1	638
PstNI	CAGNNN!CTG	3	2189; 4688; 5096
PsuI	R!GATCY	12	585; 609; 1082; 1497; 2062; 3758; 4004; 4396; 4755; 4767; 4853; 4864
PsyI	GACN!NNGTC	1	3705
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1275; 3085; 3693
RcaI	T!CATGA	2	3013; 4785
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4102
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	2	1155; 2316
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNN!	0	
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	12	219; 244; 299; 332; 383; 540; 667; 1492; 1567; 1717; 1969; 3893
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 666; 1491; 1566; 1716; 1968; 3892

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RseI	CAYNN!NNRTG	8	365; 676; 796; 1373; 1516; 1555; 1960; 4024
RsrII	CG!GWCCG	1	4103
Rsr2I	CG!GWCCG	1	4103
SacI	GAGCT!C	2	620; 1355
SacII	CCGC!GG	0	
SalI	G!TCGAC	1	639
SapI	GCTCTTCN!	1	808
SapI	!NNNNGAAGAGC	4	1457; 1526; 3931; 4141
SaqAI	T!TAA	19	7; 983; 1541; 1766; 2222; 2288; 2349; 2470; 2491; 2502; 2514; 2525; 2542; 2640; 2911; 4730; 4744; 4749; 4801
SatI	GC!NGC	39	776; 883; 890; 1039; 1233; 1671; 1722; 1866; 1983; 2164; 2231; 2234; 2364; 2883; 2905; 2919; 3357; 3496; 3548; 3559; 3649; 3654; 3691; 3732; 3819; 3825; 4061; 4157; 4198; 4212; 4326; 4665; 4680; 4891; 5097; 5100; 5165; 5308; 5463
Sau96I	G!GNCC	16	83; 276; 1044; 1144; 1185; 1672; 1915; 2007; 2028; 2112; 2694; 4103; 4548; 4594; 4652; 4685
Sau3AI	!GATC	25	585; 609; 1077; 1082; 1497; 1886; 2036; 2062; 2244; 3424; 3428; 3447; 3758; 3836; 3917; 3926; 4004; 4380; 4396; 4755; 4767; 4845; 4853; 4864; 4939
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	705; 1811; 2639; 3071
SchI	!NNNNGACTC	7	404; 598; 721; 2232; 2646; 4252; 5129
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	28	90; 283; 809; 841; 1048; 1073; 1363; 1483; 1495; 1699; 1747; 1843; 1858; 1987; 2096; 3123; 3178; 3195; 3591; 3751; 3974; 4364; 4553; 4656; 5128; 5346; 5359; 5480
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNN!	7	1389; 1953; 2021; 3165; 3237; 3406; 5348
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	3742; 4227
SdeOSI	GACNNNRTGANNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	15	620; 821; 1355; 1579; 1606; 1639; 2216; 2778; 3533; 3626; 3700; 3890; 3952; 4662; 5195
SelI	!CGCG	16	58; 1036; 2234; 2509; 2885; 2905; 2929; 2960; 3651; 3952; 4390; 4474; 4537; 4606; 4879; 5460
SetI	ASST!	78	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 740; 764; 881; 894; 1055; 1065; 1077; 1135; 1165; 1277; 1292; 1320; 1355; 1496; 1538; 1565; 1661; 1711; 1732; 1883; 2018; 2036; 2087; 2155; 2159; 2174; 2198; 2277; 2298; 2307; 2319; 2368; 2535; 2650; 2662; 2705; 2742; 2792; 2815; 2939; 3087; 3182; 3375; 3488; 3616; 3695; 3706; 3778; 3849; 3893; 4153; 4299; 4343; 4674; 4705; 4764; 4807; 4950; 4971; 5070; 5207; 5222; 5241; 5253; 5297; 5343; 5394
SexAI	A!CCWGGT	1	3176
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	9	1409; 1476; 1760; 2403; 3166; 3238; 3886; 3950; 4225
SfaNI	!NNNNNNNNNGATGC	9	357; 1236; 1913; 1952; 2081; 3545; 3800; 4016; 5408
Sfcl	C!TRYAG	5	634; 926; 2922; 5049; 5240
SfiI	GGCCNNNN!NGGCC	1	3362
SfoI	GGC!GCC	1	3588
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	2	627; 4269

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	219	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 663; 695; 715; 728; 744; 762; 782; 798; 820; 834; 852; 868; 888; 909; 937; 967; 1045; 1059; 1084; 1110; 1154; 1167; 1182; 1205; 1235; 1249; 1270; 1288; 1318; 1354; 1374; 1399; 1456; 1486; 1500; 1516; 1563; 1581; 1611; 1635; 1653; 1668; 1710; 1725; 1758; 1792; 1805; 1833; 1854; 1869; 1896; 1930; 1951; 1971; 1984; 1998; 2016; 2029; 2046; 2061; 2079; 2100; 2134; 2172; 2195; 2213; 2247; 2294; 2323; 2365; 2448; 2522; 2606; 2628; 2660; 2697; 2715; 2734; 2749; 2791; 2808; 2825; 2860; 2874; 2891; 2913; 2937; 2961; 3026; 3040; 3078; 3094; 3134; 3147; 3166; 3189; 3206; 3219; 3238; 3268; 3289; 3306; 3329; 3364; 3391; 3422; 3444; 3470; 3492; 3511; 3539; 3575; 3594; 3617; 3631; 3651; 3664; 3678; 3697; 3711; 3730; 3762; 3776; 3789; 3815; 3846; 3859; 3876; 3893; 3907; 3924; 3942; 3957; 3985; 4001; 4020; 4042; 4058; 4081; 4100; 4125; 4144; 4164; 4191; 4215; 4248; 4267; 4295; 4309; 4375; 4399; 4414; 4437; 4458; 4475; 4523; 4550; 4564; 4593; 4617; 4650; 4667; 4687; 4700; 4713; 4771; 4798; 4817; 4847; 4872; 4892; 4906; 4931; 4949; 4986; 5024; 5053; 5081; 5095; 5115; 5130; 5151; 5165; 5184; 5202; 5218; 5258; 5278; 5305; 5323; 5344; 5357; 5370; 5387; 5411; 5434; 5466; 5491; 5518; 5540
SgeI	!NNNNNNNNNNNNCNG	190	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 637; 669; 689; 718; 736; 756; 778; 795; 826; 862; 883; 911; 941; 1019; 1058; 1084; 1128; 1152; 1179; 1209; 1244; 1262; 1292; 1328; 1348; 1373; 1430; 1460; 1480; 1501; 1537; 1555; 1585; 1609; 1627; 1651; 1684; 1732; 1766; 1807; 1828; 1870; 1904; 1925; 1945; 1972; 1990; 2011; 2035; 2053; 2074; 2108; 2146; 2169; 2187; 2221; 2268; 2297; 2339; 2422; 2496; 2580; 2602; 2634; 2671; 2689; 2708; 2765; 2782; 2799; 2834; 2852; 2872; 2892; 2911; 2935; 3000; 3052; 3108; 3140; 3163; 3180; 3212; 3242; 3263; 3280; 3303; 3338; 3365; 3396; 3418; 3444; 3466; 3485; 3513; 3549; 3568; 3591; 3612; 3630; 3647; 3671; 3704; 3736; 3763; 3789; 3820; 3850; 3867; 3893; 3916; 3937; 3959; 3979; 3999; 4016; 4055; 4074; 4099; 4118; 4138; 4165; 4189; 4222; 4241; 4269; 4291; 4349; 4373; 4392; 4411; 4432; 4449; 4497; 4524; 4544; 4567; 4591; 4624; 4641; 4661; 4687; 4745; 4772; 4791; 4821; 4846; 4866; 4905; 4923; 4960; 4998; 5027; 5055; 5076; 5104; 5125; 5158; 5176; 5232; 5252; 5279; 5297; 5318; 5344; 5361; 5385; 5408; 5440; 5465; 5492; 5514; 5543
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	0	
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	5	27; 720; 2734; 4521; 5314
SimI	!GACCC	4	106; 4015; 4583; 4831
SinI	G!GWCC	3	2112; 4103; 4548
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	8	365; 676; 796; 1373; 1516; 1555; 1960; 4024
SmlI	C!TYRAG	9	613; 619; 822; 2086; 2469; 3978; 4860; 5137; 5399
SmoI	C!TYRAG	9	613; 619; 822; 2086; 2469; 3978; 4860; 5137; 5399
SmuI	CCCGCNNNN!	10	93; 119; 286; 1980; 2082; 2909; 3264; 3285; 4481; 4613
SmuI	!NNNNNNGCGGG	6	2017; 2840; 3710; 4247; 4385; 4532
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3157; 3229; 3992
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	17	18; 629; 934; 949; 960; 988; 1253; 2223; 2337; 2401; 2479; 2505; 2516; 3163; 3235; 3327; 4745
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	1	3408
SsiI	C!CGC	35	58; 86; 98; 112; 279; 507; 589; 1835; 1973; 2075; 2234; 2902; 2905; 2919; 3009; 3257; 3269; 3278; 3290; 3300; 3311; 3357; 3496; 3559; 4061; 4106; 4172; 4198; 4323; 4326; 4474; 4606; 4913; 5057; 5553

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	G!CGG	29	370; 403; 528; 1038; 1232; 1670; 1982; 2024; 2230; 2847; 2874; 2962; 3072; 3653; 3717; 3818; 3821; 4101; 4156; 4254; 4392; 4539; 4679; 4922; 5167; 5288; 5307; 5434; 5462
SspI	AAT!ATT	2	2495; 3048
SspDI	G!GCGCC	1	3586
SspD5I	GGTGANNNNNNNN!	5	376; 1087; 1908; 4658; 4774
SspD5I	!NNNNNNNNNTCACC	3	1796; 2703; 3764
SstI	GAGCT!C	2	620; 1355
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	1841
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	21	92; 118; 285; 815; 1230; 1763; 1979; 2081; 2102; 2786; 2908; 3263; 3284; 3597; 4000; 4139; 4210; 4480; 4612; 4842; 5280
Sth132I	!NNNNNNNNCCGGG	20	15; 407; 470; 1812; 2016; 2787; 2839; 2940; 3667; 3709; 3742; 4246; 4355; 4384; 4531; 4635; 4666; 5119; 5163; 5371
Sth302II	CC!GG	22	602; 810; 1171; 1204; 1505; 2097; 2806; 3493; 3570; 3592; 3620; 3751; 3841; 3908; 4089; 4364; 4372; 4464; 4938; 5128; 5154; 5301
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	5	1313; 3455; 3912; 3937; 4391
StsI	!NNNNNNNNNNNNNNCATCC	7	849; 1395; 1592; 1680; 1737; 1892; 3259
StuI	AGG!CCT	1	3408
StyI	C!CWWGG	7	360; 650; 1514; 3316; 3409; 4019; 4424
StyD4I	!CCNGG	28	88; 281; 807; 839; 1046; 1071; 1361; 1481; 1493; 1697; 1745; 1841; 1856; 1985; 2094; 3121; 3176; 3193; 3589; 3749; 3972; 4362; 4551; 4654; 5126; 5344; 5357; 5478
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 1296; 1581; 2678; 3967; 4083; 4191; 4514; 5005; 5475; 5546
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 1055; 1135; 1320; 1883; 2159; 2650; 2662; 2705; 2815; 3706; 3893; 4674; 4807
TaqI	T!CGA	18	614; 627; 640; 1349; 1664; 1691; 2159; 2736; 3427; 3700; 3856; 3880; 3916; 4078; 4269; 4314; 4569; 5407
TaqII	GACCGANNNNNNNNNNN!	3	2607; 3624; 4292
TaqII	!NNNNNNNNNTCGGTC	1	4536
TaqII	CACCCANNNNNNNNNNN!	2	1654; 1759
TaqII	!NNNNNNNNNTGGGTG	4	172; 895; 3491; 4083
TasI	!AATT	17	18; 629; 934; 949; 960; 988; 1253; 2223; 2337; 2401; 2479; 2505; 2516; 3163; 3235; 3327; 4745
TatI	W!GTACW	6	217; 297; 330; 381; 665; 1565
TauI	GCSG!C	21	1041; 1235; 1673; 1985; 2233; 2236; 2907; 2921; 3359; 3498; 3561; 3656; 3821; 3824; 4063; 4159; 4200; 4328; 4682; 5310; 5465
TfiI	G!AWTC	9	1209; 1433; 1652; 2129; 4072; 4206; 4316; 4353; 5531
ThiI	C!TCGAG	1	613
TruII	T!TAA	19	7; 983; 1541; 1766; 2222; 2288; 2349; 2470; 2491; 2502; 2514; 2525; 2542; 2640; 2911; 4730; 4744; 4749; 4801
Tru9I	T!TAA	19	7; 983; 1541; 1766; 2222; 2288; 2349; 2470; 2491; 2502; 2514; 2525; 2542; 2640; 2911; 4730; 4744; 4749; 4801
TscAI	CASTGNN!	8	690; 982; 1301; 2433; 3716; 4826; 5097; 5110
TseI	G!CWGC	19	775; 882; 889; 1721; 1865; 2163; 2363; 2882; 3547; 3648; 3690; 3731; 3824; 4211; 4664; 4890; 5096; 5099; 5164
TsoI	TARCCANNNNNNNNNNN!	2	2559; 2906
TsoI	!NNNNNNNNNTGGYTA	3	1690; 2364; 4116
Tsp45I	!GTSAC	7	678; 1318; 1342; 1803; 2876; 3707; 4013
Tsp509I	!AATT	17	18; 629; 934; 949; 960; 988; 1253; 2223; 2337; 2401; 2479; 2505; 2516; 3163; 3235; 3327; 4745
TspDTI	ATGAANNNNNNNNNNN!	6	872; 1385; 1573; 2345; 3646; 4350
TspDTI	!NNNNNNNNNTTCAT	7	26; 780; 1701; 1722; 4064; 4520; 4727
TspEI	!AATT	17	18; 629; 934; 949; 960; 988; 1253; 2223; 2337; 2401; 2479; 2505; 2516; 3163; 3235; 3327; 4745
TspGWI	ACGGANNNNNNNNNNN!	1	4462
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	8	690; 982; 1301; 2433; 3716; 4826; 5097; 5110
TstI	CACNNNNNNNTCCNNNNNNNNNNNN!	1	1136
TstI	!NNNNNNNGGANNNNNNNNGTG	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TstI	GGANNNNNNGTGNNNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNNCACNNNNNNNTCC	1	1104
Tth111I	GACN!NNGTC	1	3705
Tth111II	CAARCANNNNNNNNNNNN!	2	902; 4914
Tth111III	!NNNNNNNNNTGYTTG	4	700; 4022; 4882; 4921
UnbI	!GGNCC	16	82; 275; 1043; 1143; 1184; 1671; 1914; 2006; 2027; 2111; 2693; 4102; 4547; 4593; 4651; 4684
Van9II	CCANNNN!NTGG	3	792; 1275; 2121
Vha464I	C!TTAAG	1	2469
VneI	G!TGCAC	3	817; 1602; 5191
VpaK11AI	!GGWCC	3	2111; 4102; 4547
VpaK11BI	G!GWCC	3	2112; 4103; 4548
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	1	1070
XapI	R!AATTY	7	629; 949; 988; 1253; 2401; 2505; 2516
XbaI	T!CTAGA	1	2241
XceI	RCATG!Y	7	801; 1158; 1554; 3157; 3229; 3992; 5509
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	12	585; 609; 1082; 1497; 2062; 3758; 4004; 4396; 4755; 4767; 4853; 4864
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3409; 4424
XmiI	GT!MKAC	2	640; 2102
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	10	592; 850; 2201; 2242; 2436; 2854; 3410; 4425; 4759; 5012
ZraI	GAC!GTC	5	123; 176; 259; 445; 1133
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3159; 3231; 5562