

pTagRFP-keratin vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2795; 3000
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	4	1092; 3083; 4039; 5828
AatI	AGG!CCT	2	1267; 3833
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	1902; 2527
AccII	CG!CG	17	60; 693; 1913; 2661; 2936; 3312; 3332; 3356; 3387; 4078; 4379; 4817; 4901; 4964; 5033; 5306; 5887
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	1	4114
Acc36I	ACCTGCNNNN!	2	4280; 4730
Acc36I	!NNNNNNNNNGCAGGT	1	3899
Acc65I	G!GTACC	1	1907
AccB1I	G!GYRCC	9	465; 659; 672; 1907; 2001; 2061; 3165; 4011; 4046
AccB7I	CCANNNN!NTGG	3	1130; 1514; 2546
AccBSI	CCG!CTC	3	748; 3436; 4625
AccBSI	GAG!CGG	3	2655; 3272; 4679
AceIII	CAGCTCNNNNNNN!	3	1298; 1620; 2968
AceIII	!NNNNNNNNNNNGAGCTG	8	552; 1098; 1212; 1359; 1456; 1479; 1629; 1947
AciI	C!CGC	44	58; 86; 98; 112; 279; 507; 589; 746; 866; 1043; 1154; 1586; 1739; 1742; 1829; 1911; 2260; 2398; 2500; 2659; 3327; 3330; 3344; 3434; 3682; 3694; 3703; 3715; 3725; 3736; 3782; 3921; 3984; 4486; 4531; 4597; 4623; 4748; 4751; 4899; 5031; 5338; 5482; 5978
AciI	G!CGG	30	370; 403; 528; 693; 766; 1913; 2095; 2407; 2449; 2655; 3272; 3299; 3387; 3497; 4078; 4142; 4243; 4246; 4526; 4581; 4679; 4817; 4964; 5104; 5347; 5592; 5713; 5732; 5859; 5887
AcI	AA!CGTT	0	
AcIWI	GGATCNNNN!	10	741; 1626; 1930; 3880; 4191; 4437; 4829; 5188; 5286; 5372
AcIWI	!NNNNNGATCC	8	580; 1613; 1917; 2482; 4256; 4800; 5187; 5284
AcoI	Y!GGCCR	10	678; 694; 787; 1114; 2605; 2656; 3918; 4092; 4483; 4510
AcsI	R!AATY	4	1891; 2826; 2930; 2941
AcuI	CTGAAGNNNNNNNNNNNNNNN!	4	1566; 2457; 4158; 4590
AcuI	!NNNNNNNNNNNNNNCTTCAG	2	743; 5388
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	10	122; 175; 258; 444; 660; 673; 2524; 4012; 4714; 4793
AdeI	CACNNN!GTG	2	2597; 3128
AfaI	GT!AC	13	219; 244; 299; 332; 383; 540; 1407; 1502; 1909; 1992; 2142; 2394; 4318
AfeI	AGC!GCT	0	
AfiI	CCNNNNN!NNGG	35	49; 637; 669; 760; 913; 1130; 1253; 1291; 1514; 1574; 1601; 1661; 1679; 1748; 1831; 2058; 2171; 2337; 2403; 2546; 3024; 3350; 3742; 3993; 4537; 4818; 4850; 4982; 5017; 5067; 5099; 5452; 5731; 5897; 5915
AfiII	C!TTAAG	1	2894
AfiIII	A!CRYGT	1	5930
AgeI	A!CCGGT	2	637; 1928
AgsI	TTS!AA	8	989; 2024; 2474; 3423; 3467; 3477; 3890; 5466
AhdI	GACNNN!NNGTC	2	963; 1503
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	26	88; 281; 643; 655; 784; 868; 880; 898; 961; 1525; 1672; 1678; 2122; 2170; 2266; 2281; 2410; 3546; 3601; 3618; 4397; 4976; 5079; 5769; 5782; 5903

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	GAANNNNNNNTTGGNNNNNNNNNNNN!	1	1571
AjuI	!NNNNNNCCAANNNNNNNTTC	0	
AjuI	CCAANNNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNNTTGG	1	1539
AleI	CACNN!NNGTG	2	1437; 1941
AlfI	GCANNNNNTGCGNNNNNNNNNNNN!	5	1068; 1455; 1818; 3586; 3658
AlfI	!NNNNNNNNNGCANNNNNNNTGC	5	1034; 1421; 1784; 3552; 3624
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	2	2348; 3094
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNNNTCC	2	2316; 3062
AluI	AG!CT	31	566; 604; 667; 757; 1112; 1193; 1226; 1288; 1373; 1397; 1470; 1493; 1555; 1610; 1643; 1715; 1961; 1988; 2134; 2441; 2791; 2958; 3215; 3510; 3798; 4118; 4576; 5373; 5630; 5676; 5766
AluBI	AG!CT	31	566; 604; 667; 757; 1112; 1193; 1226; 1288; 1373; 1397; 1470; 1493; 1555; 1610; 1643; 1715; 1961; 1988; 2134; 2441; 2791; 2958; 3215; 3510; 3798; 4118; 4576; 5373; 5630; 5676; 5766
AlwI	GGATCNNNN!	10	741; 1626; 1930; 3880; 4191; 4437; 4829; 5188; 5286; 5372
AlwI	!NNNNNGATCC	8	580; 1613; 1917; 2482; 4256; 4800; 5187; 5284
Alw21I	GWGCW!C	7	943; 1434; 1444; 2031; 4125; 4315; 5620
Alw26I	GTCTCN!	2	434; 1417
Alw26I	!NNNNNGAGAC	13	837; 897; 964; 1098; 1191; 1470; 1490; 1854; 2568; 3436; 3854; 4873; 5001
Alw44I	G!TGCAC	2	2027; 5616
AlwNI	CAGNNN!CTG	5	714; 973; 2614; 5113; 5521
Ama87I	C!YCGRG	2	1654; 1918
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	0	
ApaI	GGGCC!C	2	1361; 1919
ApaBI	GCANNNN!TGC	3	3580; 3652; 5114
ApaLI	G!TGCAC	2	2027; 5616
ApeKI	G!CWGC	24	688; 1077; 1190; 1226; 1470; 1607; 1625; 1792; 2146; 2290; 2588; 2788; 3307; 3972; 4073; 4115; 4156; 4249; 4636; 5089; 5315; 5521; 5524; 5589
ApoI	R!AATTY	4	1891; 2826; 2930; 2941
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	2	1546; 4527
ApyPI	!NNNNNNNNNNNNNNNNNNNGTCGAT	3	4321; 4974; 5812
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	4411
AquII	!NNNNNNNNNNNNNNNNNNNGTNCGGC	1	2122
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	5	918; 1246; 1417; 1450; 3840
AquIII	!NNNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	1	1279
AquIV	!NNNNNNNNNNNNNNNNNNCTCCYC	1	4582
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNNGTC	0	
ArsI	CRAANNNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	30	586; 734; 992; 1016; 1205; 1340; 1520; 1619; 1727; 1923; 2312; 2462; 2488; 2670; 3850; 3854; 3873; 4184; 4262; 4343; 4352; 4430; 4806; 4822; 5181; 5193; 5271; 5279; 5290; 5365
AsiGI	A!CCGGT	2	637; 1928
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	4130
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	1907
AspA2I	C!CTAGG	2	3834; 4849
AspEI	GACNNN!NNGTC	2	963; 1503
AspLEI	GCG!C	26	662; 675; 693; 714; 1123; 1672; 3278; 3286; 3312; 3334; 3343; 3356; 3387; 4006; 4014; 4078; 4115; 4381; 4641; 4817; 4903; 5306; 5415; 5589; 5689; 5756
AspS9I	G!GNCC	24	83; 276; 640; 775; 782; 957; 1001; 1328; 1358; 1583; 1676; 1691; 1916; 2097; 2340; 2432; 2453; 2537; 3119; 4528; 4973; 5019; 5077; 5110
AssI	AGT!ACT	1	1407

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AsuII	TT!CGAA	1	4694
AsuC2I	CC!SGG	16	677; 731; 779; 794; 803; 936; 1356; 1655; 1656; 1919; 1920; 2521; 4016; 4176; 4789; 5553
AsuHPI	GGTANNNNNNNN!	5	376; 1788; 2333; 5083; 5199
AsuHPI	!NNNNNNNTCACC	5	599; 1436; 2222; 3129; 4190
AsuNHI	G!CTAGC	1	591
AvaI	C!YCGRG	2	1654; 1918
AvaII	G!GWCC	8	640; 775; 957; 1001; 1328; 2537; 4528; 4973
AviII	TGC!GCA	1	4114
AvrII	C!CTAGG	2	3834; 4849
AxyI	CC!TNAGG	5	1005; 1569; 2206; 3492; 5124
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	9	1361; 1919; 2004; 2031; 2064; 2641; 3958; 4051; 5620
BalI	TGG!CCA	4	789; 1116; 2607; 4094
BamHI	G!GATCC	2	1618; 1922
BanI	G!GYRCC	9	465; 659; 672; 1907; 2001; 2061; 3165; 4011; 4046
BanII	GRGCY!C	9	651; 723; 1013; 1153; 1361; 1919; 3203; 4377; 5087
BanIII	AT!CGAT	1	3852
BarI	GAAGNNNNNTACNNNNNNNNNN!	0	
BarI	!NNNNNNNGTANNNNNCTTC	0	
BarI	GTANNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	0	
BasI	CCANNN!NTGG	3	1130; 1514; 2546
BauI	C!ACGAG	3	2592; 4730; 5757
BauI	C!TCGTG	2	2442; 4604
BbeI	GGGC!C	3	663; 676; 4015
Bbr7I	GAAGACNNNNNN!	1	2253
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	1	2248
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	3582; 3654; 4417
BbvI	GCAGCNNNNNNNN!	12	700; 1202; 1619; 1804; 2158; 2600; 2800; 4085; 4127; 4648; 5101; 5601
BbvI	!NNNNNNNNNNNGCTGC	11	1064; 1213; 1457; 1612; 2277; 3294; 3959; 4143; 4236; 5302; 5508
Bbv12I	GWGCW!C	7	943; 1434; 1444; 2031; 4125; 4315; 5620
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	1	1459
BccI	CCATCNNNN!	6	1818; 2339; 3142; 3706; 4232; 4734
BccI	!NNNNNGATGG	6	1595; 1749; 1836; 3110; 3890; 4318
BceAI	ACGGCNNNNNNNNNN!	7	686; 2159; 2303; 2354; 2420; 4438; 4925
BceAI	!NNNNNNNNNNNGCCGT	3	3153; 3971; 5430
Bcefi	ACGGCNNNNNNNNNN!	7	686; 2159; 2303; 2354; 2420; 4438; 4925
Bcefi	!NNNNNNNNNNNGCCGT	3	3154; 3972; 5431
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNGCANNNNNTCG	0	
BcgI	GCANNNNNNTCGNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNCGANNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3441; 4231; 5732
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	16	677; 731; 779; 794; 803; 936; 1356; 1655; 1656; 1919; 1920; 2521; 4016; 4176; 4789; 5553
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	5865
BdaI	!NNNNNNNNNTGANNNNNNTCA	1	5831
BfaI	C!TAG	10	592; 1398; 2626; 2667; 2861; 3279; 3835; 4850; 5184; 5437
BfiI	ACTGGGNNNNN!	2	2643; 3961
BfiI	!NNNNCCCAGT	2	289; 3713
BfmI	C!TRYAG	7	1053; 1188; 1596; 1896; 3347; 5474; 5665
BfoI	RGCGC!Y	8	663; 676; 715; 1673; 3279; 3287; 4015; 5690

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BfrI	C!TTAAG	1	2894
BfuI	GTATCCNNNNNN!	3	3441; 4231; 5732
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	4280; 4730
BfuAI	!NNNNNNNNNGCAGGT	1	3899
BfuCI	!GATC	30	585; 733; 991; 1015; 1204; 1339; 1519; 1618; 1726; 1922; 2311; 2461; 2487; 2669; 3849; 3853; 3872; 4183; 4261; 4342; 4351; 4429; 4805; 4821; 5180; 5192; 5270; 5278; 5289; 5364
BglI	GCCNNNN!NGGC	5	90; 212; 283; 2416; 3787
BglII	A!GATCT	1	1015
BisI	GC!NGC	46	689; 694; 767; 1078; 1191; 1227; 1471; 1608; 1626; 1742; 1793; 2096; 2147; 2291; 2408; 2589; 2656; 2659; 2789; 3308; 3330; 3344; 3782; 3921; 3973; 3984; 4074; 4079; 4116; 4157; 4244; 4247; 4250; 4486; 4582; 4623; 4637; 4751; 5090; 5105; 5316; 5522; 5525; 5590; 5733; 5888
BlnI	C!CTAGG	2	3834; 4849
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	46	690; 695; 768; 1079; 1192; 1228; 1472; 1609; 1627; 1743; 1794; 2097; 2148; 2292; 2409; 2590; 2657; 2660; 2790; 3309; 3331; 3345; 3783; 3922; 3974; 3985; 4075; 4080; 4117; 4158; 4245; 4248; 4251; 4487; 4583; 4624; 4638; 4752; 5091; 5106; 5317; 5523; 5526; 5591; 5734; 5889
BmcAI	AGT!ACT	1	1407
Bme18I	G!GWCC	8	640; 775; 957; 1001; 1328; 2537; 4528; 4973
Bme1390I	CC!NGG	42	90; 283; 645; 657; 677; 731; 779; 786; 794; 803; 870; 882; 900; 936; 963; 1356; 1527; 1655; 1656; 1674; 1680; 1919; 1920; 2124; 2172; 2268; 2283; 2412; 2521; 3548; 3603; 3620; 4016; 4176; 4399; 4789; 4978; 5081; 5553; 5771; 5784; 5905
BmeRI	GACNNN!NNGTC	2	963; 1503
BmeT110I	C!YCGRG	2	1654; 1918
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	24	84; 277; 641; 776; 783; 958; 1002; 1329; 1359; 1584; 1677; 1692; 1917; 2098; 2341; 2433; 2454; 2538; 3120; 4529; 4974; 5020; 5078; 5111
BmiI	GGN!NCC	32	467; 642; 661; 674; 728; 776; 783; 897; 958; 978; 1152; 1359; 1620; 1909; 1917; 1924; 2003; 2063; 2454; 3167; 3188; 3200; 3391; 3552; 3624; 4013; 4048; 4896; 4975; 5020; 5863; 5902
BmrI	ACTGGGNNNNN!	2	2643; 3961
BmrI	!NNNNCCCAGT	2	289; 3713
BmrFI	CC!NGG	42	90; 283; 645; 657; 677; 731; 779; 786; 794; 803; 870; 882; 900; 936; 963; 1356; 1527; 1655; 1656; 1674; 1680; 1919; 1920; 2124; 2172; 2268; 2283; 2412; 2521; 3548; 3603; 3620; 4016; 4176; 4399; 4789; 4978; 5081; 5553; 5771; 5784; 5905
BmsI	GCATCNNNNN!	10	835; 1054; 1895; 2185; 2828; 3591; 3663; 4311; 4375; 4650
BmsI	!NNNNNNNNNGATGC	10	357; 1301; 1769; 2338; 2377; 2506; 3970; 4225; 4441; 5833
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	2643; 3961
BmuI	!NNNNCCCAGT	2	289; 3713
BoxI	GACNN!NNGTC	1	2580
BpiI	GAAGACNN!	1	2248
BpiI	!NNNNNGTCTTC	0	
BpI	GAGNNNNCTCNNNNNNNNNNNN!	2	3801; 4700
BpI	!NNNNNNNGAGNNNNNNCTC	2	3769; 4668
BpmI	CTGGAGNNNNNNNNNNNNNNNN!	5	921; 995; 1215; 1737; 4852
BpmI	!NNNNNNNNNNNNNNNNCTCCAG	2	2265; 4795
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	1	1459
Bpu14I	TT!CGAA	1	4694
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	1	2248
BpuAI	!NNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNN!	3	1653; 5306; 5845
BpuEI	!NNNNNNNNNNNNNNNNCTCAAG	4	1200; 2496; 4388; 5547
BpuMI	CC!SGG	16	677; 731; 779; 794; 803; 936; 1356; 1655; 1656; 1919; 1920; 2521; 4016; 4176; 4789; 5553
BpvUI	CGAT!CG	0	

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BsaI	GGTCTCN!	1	1417
BsaI	!NNNNNGAGACC	5	837; 897; 1854; 2568; 5001
Bsa29I	AT!CGAT	1	3852
BsaAI	YAC!GTR	3	340; 3128; 4316
BsaBI	GATNN!NNATC	2	2674; 3871
BsaHI	GR!CGYC	10	122; 175; 258; 444; 660; 673; 2524; 4012; 4714; 4793
BsaJI	C!CNNGG	32	360; 643; 778; 802; 961; 1145; 1300; 1513; 1654; 1678; 1783; 1911; 1918; 1939; 2035; 2170; 2171; 2266; 3546; 3618; 3741; 3776; 3785; 3834; 4175; 4444; 4849; 4976; 4977; 5079; 5080; 5770
BsaMI	GAATGCN!	1	2763
BsaMI	G!CATTC	1	2856
BsaWI	W!CCGGW	7	637; 913; 1928; 4043; 4887; 5577; 5724
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	2	1545; 3092
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	2	1515; 3062
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	1	2404
BsbI	!NNNNNNNNNNNNNNNNNGTGTG	2	3013; 4920
Bsc4I	CCNNNNN!NNGG	35	49; 637; 669; 760; 913; 1130; 1253; 1291; 1514; 1574; 1601; 1661; 1679; 1748; 1831; 2058; 2171; 2337; 2403; 2546; 3024; 3350; 3742; 3993; 4537; 4818; 4850; 4982; 5017; 5067; 5099; 5452; 5731; 5897; 5915
BscAI	GCATCNNNN!	10	834; 1053; 1894; 2184; 2827; 3590; 3662; 4310; 4374; 4649
BscAI	!NNNNNNGATGC	10	360; 1304; 1772; 2341; 2380; 2509; 3973; 4228; 4444; 5836
BseI	ACTGGN!	7	978; 1413; 2551; 2638; 3956; 4157; 5403
BseI	C!CAGT	7	295; 1124; 1508; 3041; 3719; 5515; 5528
Bse8I	GATNN!NNATC	2	2674; 3871
Bse2II	CC!TNAGG	5	1005; 1569; 2206; 3492; 5124
Bse118I	R!CCGGY	7	637; 680; 1928; 3229; 4331; 4512; 4795
BseAI	T!CCGGA	0	
BseBI	CC!WGG	26	90; 283; 645; 657; 786; 870; 882; 900; 963; 1527; 1674; 1680; 2124; 2172; 2268; 2283; 2412; 3548; 3603; 3620; 4399; 4978; 5081; 5771; 5784; 5905
BseCI	AT!CGAT	1	3852
BseDI	C!CNNGG	32	360; 643; 778; 802; 961; 1145; 1300; 1513; 1654; 1678; 1783; 1911; 1918; 1939; 2035; 2170; 2171; 2266; 3546; 3618; 3741; 3776; 3785; 3834; 4175; 4444; 4849; 4976; 4977; 5079; 5080; 5770
Bse3DI	GCAATGNN!	1	4245
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	1847; 3872; 4329; 4354; 4808
BseGI	!CATCC	9	826; 1141; 1351; 1810; 2031; 2119; 2176; 2331; 3698
BseJI	GATNN!NNATC	2	2674; 3871
BseLI	CCNNNNN!NNGG	35	49; 637; 669; 760; 913; 1130; 1253; 1291; 1514; 1574; 1601; 1661; 1679; 1748; 1831; 2058; 2171; 2337; 2403; 2546; 3024; 3350; 3742; 3993; 4537; 4818; 4850; 4982; 5017; 5067; 5099; 5452; 5731; 5897; 5915
BseMI	GCAATGNN!	1	4245
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	4	1026; 1338; 1428; 5138
BseMII	!NNNNNNNCTGAG	14	996; 1450; 1465; 1485; 1560; 1714; 1849; 1872; 2197; 3483; 3785; 4666; 5238; 5647
BseNI	ACTGGN!	7	978; 1413; 2551; 2638; 3956; 4157; 5403
BseNI	C!CAGT	7	295; 1124; 1508; 3041; 3719; 5515; 5528
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	5	908; 1236; 1407; 1440; 3830
BseRI	!NNNNNNNCTCCTC	0	
BseSI	GKGC!C	9	1361; 1919; 2004; 2031; 2064; 2641; 3958; 4051; 5620
BseXI	GCAGCNNNNNNNN!	12	700; 1202; 1619; 1804; 2158; 2600; 2800; 4085; 4127; 4648; 5101; 5601
BseXI	!NNNNNNNNNNNGCTGC	11	1064; 1213; 1457; 1612; 2277; 3294; 3959; 4143; 4236; 5302; 5508
BseX3I	C!GGCCG	3	678; 2656; 3918
BseYI	C!CCAGC	4	663; 3555; 3627; 5626
BseYI	G!CTGGG	3	714; 2368; 4516
BsgI	GTGCAGNNNNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsgI	!NNNNNNNNNNNNNNCTGCAC	1	1611
Bsh1236I	CG!CG	17	60; 693; 1913; 2661; 2936; 3312; 3332; 3356; 3387; 4078; 4379; 4817; 4901; 4964; 5033; 5306; 5887
Bsh1285I	CGRY!CG	6	681; 866; 1933; 2659; 3921; 5596
BshFI	GG!CC	41	84; 277; 680; 696; 784; 789; 873; 1116; 1267; 1359; 1551; 1584; 1677; 1692; 1917; 2098; 2341; 2376; 2410; 2433; 2455; 2565; 2607; 2658; 2978; 3120; 3775; 3781; 3790; 3833; 3920; 4094; 4485; 4512; 5021; 5078; 5111; 5456; 5890; 5908; 5919
BshNI	G!GYRCC	9	465; 659; 672; 1907; 2001; 2061; 3165; 4011; 4046
BshTI	A!CCGGT	2	637; 1928
BshVI	AT!CGAT	1	3852
BsiEI	CGRY!CG	6	681; 866; 1933; 2659; 3921; 5596
BsiHKAI	GWGCW!C	7	943; 1434; 1444; 2031; 4125; 4315; 5620
BsiHKCI	C!YCGRG	2	1654; 1918
BsiSI	C!CGG	31	638; 677; 681; 731; 778; 793; 802; 914; 935; 1355; 1655; 1832; 1919; 1929; 2521; 3230; 3917; 3994; 4016; 4044; 4175; 4265; 4332; 4513; 4788; 4796; 4888; 5362; 5552; 5578; 5725
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	35	49; 637; 669; 760; 913; 1130; 1253; 1291; 1514; 1574; 1601; 1661; 1679; 1748; 1831; 2058; 2171; 2337; 2403; 2546; 3024; 3350; 3742; 3993; 4537; 4818; 4850; 4982; 5017; 5067; 5099; 5452; 5731; 5897; 5915
BsIFI	GGGACNNNNNNNNN!	8	175; 326; 494; 970; 1678; 4163; 4695; 4804
BsIFI	!NNNNNNNNNNNNNGTCCC	6	626; 728; 3528; 3600; 3664; 4959
BsmI	GAATGCN!	1	2763
BsmI	G!CATTC	1	2856
BsmAI	GTCTCN!	2	434; 1417
BsmAI	!NNNNNGAGAC	13	837; 897; 964; 1098; 1191; 1470; 1490; 1854; 2568; 3436; 3854; 4873; 5001
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	2	1470; 1490
BsmFI	GGGACNNNNNNNNN!	8	175; 326; 494; 970; 1678; 4163; 4695; 4804
BsmFI	!NNNNNNNNNNNNNGTCCC	6	626; 728; 3528; 3600; 3664; 4959
BsnI	GG!CC	41	84; 277; 680; 696; 784; 789; 873; 1116; 1267; 1359; 1551; 1584; 1677; 1692; 1917; 2098; 2341; 2376; 2410; 2433; 2455; 2565; 2607; 2658; 2978; 3120; 3775; 3781; 3790; 3833; 3920; 4094; 4485; 4512; 5021; 5078; 5111; 5456; 5890; 5908; 5919
Bso31I	GGTCTCN!	1	1417
Bso31I	!NNNNNGAGACC	5	837; 897; 1854; 2568; 5001
BsoBI	C!YCGRG	2	1654; 1918
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	5	360; 1145; 1939; 3741; 4444
Bsp24I	GACNNNNNTGGNNNNNNNNNNN!	4	289; 1209; 1424; 4815
Bsp24I	!NNNNNNNCCANNNNNNNGTC	2	5236; 5414
Bsp24I	CCANNNNNNGTCTNNNNNNNNNNN!	2	5268; 5446
Bsp24I	!NNNNNNNNGACNNNNNNNTGG	4	257; 1177; 1392; 4783
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	1	4694
Bsp120I	G!GGCCC	2	1357; 1915
Bsp143I	!GATC	30	585; 733; 991; 1015; 1204; 1339; 1519; 1618; 1726; 1922; 2311; 2461; 2487; 2669; 3849; 3853; 3872; 4183; 4261; 4342; 4351; 4429; 4805; 4821; 5180; 5192; 5270; 5278; 5289; 5364
Bsp1286I	GDGCH!C	21	651; 723; 943; 1013; 1153; 1361; 1434; 1444; 1919; 2004; 2031; 2064; 2641; 3203; 3958; 4051; 4125; 4315; 4377; 5087; 5620
Bsp1407I	T!GTACA	1	1990
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	44	58; 86; 98; 112; 279; 507; 589; 746; 866; 1043; 1154; 1586; 1739; 1742; 1829; 1911; 2260; 2398; 2500; 2659; 3327; 3330; 3344; 3434; 3682; 3694; 3703; 3715; 3725; 3736; 3782; 3921; 3984; 4486; 4531; 4597; 4623; 4748; 4751; 4899; 5031; 5338; 5482; 5978
BspACI	G!CGG	30	370; 403; 528; 693; 766; 1913; 2095; 2407; 2449; 2655; 3272; 3299; 3387; 3497; 4078; 4142; 4243; 4246; 4526; 4581; 4679; 4817; 4964; 5104; 5347; 5592; 5713; 5732; 5859; 5887
BspCNI	CTCAGNNNNNNNNN!	4	1025; 1337; 1427; 5137
BspCNI	!NNNNNNNCTGAG	14	997; 1451; 1466; 1486; 1561; 1715; 1850; 1873; 2198; 3484; 3786; 4667; 5239; 5648

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspDI	AT!CGAT	1	3852
BspD6I	GACTCNNNN!	6	418; 1538; 2671; 3085; 4691; 5568
BspD6I	!NNNNNNGAGTC	5	1086; 1628; 2220; 3048; 3480
BspEI	T!CCGGA	0	
BspFNI	CG!CG	17	60; 693; 1913; 2661; 2936; 3312; 3332; 3356; 3387; 4078; 4379; 4817; 4901; 4964; 5033; 5306; 5887
BspHI	T!CATGA	3	1234; 3438; 5210
BspLI	GGN!NCC	32	467; 642; 661; 674; 728; 776; 783; 897; 958; 978; 1152; 1359; 1620; 1909; 1917; 1924; 2003; 2063; 2454; 3167; 3188; 3200; 3391; 3552; 3624; 4013; 4048; 4896; 4975; 5020; 5863; 5902
BspMI	ACCTGCNNNN!	2	4280; 4730
BspMI	!NNNNNNNNGCAGGT	1	3899
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	10	741; 1626; 1930; 3880; 4191; 4437; 4829; 5188; 5286; 5372
BspPI	!NNNNNGATCC	8	580; 1613; 1917; 2482; 4256; 4800; 5187; 5284
BspQI	GCTCTCN!	1	1236
BspQI	!NNNNGAAGAGC	3	1951; 4356; 4566
BspTI	C!TTAAG	1	2894
BspT104I	TT!CGAA	1	4694
BspT107I	G!GYRCC	9	465; 659; 672; 1907; 2001; 2061; 3165; 4011; 4046
BspTNI	GGTCTCN!	1	1417
BspTNI	!NNNNNGAGACC	5	837; 897; 1854; 2568; 5001
BsrI	ACTGGN!	7	978; 1413; 2551; 2638; 3956; 4157; 5403
BsrI	C!CAGT	7	295; 1124; 1508; 3041; 3719; 5515; 5528
BsrBI	CCG!CTC	3	748; 3436; 4625
BsrBI	GAG!CGG	3	2655; 3272; 4679
BsrDI	GCAATGNN!	1	4245
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	7	637; 680; 1928; 3229; 4331; 4512; 4795
BsrGI	T!GTACA	1	1990
BsrSI	ACTGGN!	7	978; 1413; 2551; 2638; 3956; 4157; 5403
BsrSI	C!CAGT	7	295; 1124; 1508; 3041; 3719; 5515; 5528
BssAI	R!CCGGY	7	637; 680; 1928; 3229; 4331; 4512; 4795
BssECI	C!CNNGG	32	360; 643; 778; 802; 961; 1145; 1300; 1513; 1654; 1678; 1783; 1911; 1918; 1939; 2035; 2170; 2171; 2266; 3546; 3618; 3741; 3776; 3785; 3834; 4175; 4444; 4849; 4976; 4977; 5079; 5080; 5770
BssHII	G!CGCGC	0	
BssKI	!CCNNGG	42	88; 281; 643; 655; 675; 729; 777; 784; 792; 801; 868; 880; 898; 934; 961; 1354; 1525; 1653; 1654; 1672; 1678; 1917; 1918; 2122; 2170; 2266; 2281; 2410; 2519; 3546; 3601; 3618; 4014; 4174; 4397; 4787; 4976; 5079; 5551; 5769; 5782; 5903
BssMI	!GATC	30	585; 733; 991; 1015; 1204; 1339; 1519; 1618; 1726; 1922; 2311; 2461; 2487; 2669; 3849; 3853; 3872; 4183; 4261; 4342; 4351; 4429; 4805; 4821; 5180; 5192; 5270; 5278; 5289; 5364
BssNI	GR!CGYC	10	122; 175; 258; 444; 660; 673; 2524; 4012; 4714; 4793
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	2592; 4730; 5757
BssSI	C!TCGTG	2	2442; 4604
BssT1I	C!CWWGG	9	360; 1145; 1513; 1783; 1939; 3741; 3834; 4444; 4849
Bst6I	CTCTCN!	1	1236
Bst6I	!NNNNGAAGAG	5	1246; 1951; 3479; 4356; 4566
Bst98I	C!TTAAG	1	2894
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	10	122; 175; 258; 444; 660; 673; 2524; 4012; 4714; 4793
BstAFI	C!TTAAG	1	2894
BstAPI	GCANNNN!NTGC	3	3579; 3651; 5113
BstAUI	T!GTACA	1	1990
BstBI	TT!CGAA	1	4694
Bst2BI	C!ACGAG	3	2592; 4730; 5757
Bst2BI	C!TCGTG	2	2442; 4604
BstBAI	YAC!GTR	3	340; 3128; 4316
Bst4CI	ACN!GT	20	76; 198; 269; 543; 581; 1031; 1301; 1439; 1453; 1505; 1907; 2006; 3103; 4392; 4508; 4616; 4939; 5430; 5900; 5971

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstC8I	GCN!NGC	40	86; 279; 593; 698; 710; 1043; 1114; 1286; 1375; 1553; 1586; 1645; 1746; 1915; 2049; 2253; 3231; 3274; 3288; 3561; 3580; 3633; 3652; 3906; 4092; 4311; 4377; 4383; 4415; 4456; 4460; 4514; 4797; 4984; 5031; 5087; 5109; 5320; 5880; 5917
BstDEI	C!TNAG	20	1005; 1012; 1324; 1414; 1459; 1474; 1494; 1569; 1723; 1858; 1881; 1948; 2206; 2503; 3492; 3794; 4675; 5124; 5247; 5656
BstDSI	C!CRYGG	7	360; 1145; 1300; 1911; 1939; 3741; 4444
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	1	1572
BstF5I	GGATGNN!	5	1847; 3872; 4329; 4354; 4808
BstF5I	!CATCC	9	826; 1141; 1351; 1810; 2031; 2119; 2176; 2331; 3698
BstFNI	CG!CG	17	60; 693; 1913; 2661; 2936; 3312; 3332; 3356; 3387; 4078; 4379; 4817; 4901; 4964; 5033; 5306; 5887
BstH2I	RGCGC!Y	8	663; 676; 715; 1673; 3279; 3287; 4015; 5690
BstHHI	GCG!C	26	662; 675; 693; 714; 1123; 1672; 3278; 3286; 3312; 3334; 3343; 3356; 3387; 4006; 4014; 4078; 4115; 4381; 4641; 4817; 4903; 5306; 5415; 5589; 5689; 5756
BstKTI	GAT!C	30	588; 736; 994; 1018; 1207; 1342; 1522; 1621; 1729; 1925; 2314; 2464; 2490; 2672; 3852; 3856; 3875; 4186; 4264; 4345; 4354; 4432; 4808; 4824; 5183; 5195; 5273; 5281; 5292; 5367
BstMAI	GTCTCN!	2	434; 1417
BstMAI	!NNNNNGAGAC	13	837; 897; 964; 1098; 1191; 1470; 1490; 1854; 2568; 3436; 3854; 4873; 5001
BstMBI	!GATC	30	585; 733; 991; 1015; 1204; 1339; 1519; 1618; 1726; 1922; 2311; 2461; 2487; 2669; 3849; 3853; 3872; 4183; 4261; 4342; 4351; 4429; 4805; 4821; 5180; 5192; 5270; 5278; 5289; 5364
BstMCI	CGRY!CG	6	681; 866; 1933; 2659; 3921; 5596
BstMWI	GCNNNNN!NNGC	37	90; 212; 244; 283; 376; 400; 601; 697; 718; 754; 1074; 1118; 1281; 1490; 1590; 1728; 1985; 2416; 3239; 3269; 3296; 3338; 3579; 3651; 3702; 3781; 4003; 4087; 4110; 4249; 4372; 4455; 4722; 4909; 5113; 5312; 5884
BstNI	CC!WGG	26	90; 283; 645; 657; 786; 870; 882; 900; 963; 1527; 1674; 1680; 2124; 2172; 2268; 2283; 2412; 3548; 3603; 3620; 4399; 4978; 5081; 5771; 5784; 5905
BstNSI	RCATG!Y	5	1979; 3582; 3654; 4417; 5934
BstOI	CC!WGG	26	90; 283; 645; 657; 786; 870; 882; 900; 963; 1527; 1674; 1680; 2124; 2172; 2268; 2283; 2412; 3548; 3603; 3620; 4399; 4978; 5081; 5771; 5784; 5905
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	2580
BstSCI	!CCNGG	42	88; 281; 643; 655; 675; 729; 777; 784; 792; 801; 868; 880; 898; 934; 961; 1354; 1525; 1653; 1654; 1672; 1678; 1917; 1918; 2122; 2170; 2266; 2281; 2410; 2519; 3546; 3601; 3618; 4014; 4174; 4397; 4787; 4976; 5079; 5551; 5769; 5782; 5903
BstSFI	C!TRYAG	7	1053; 1188; 1596; 1896; 3347; 5474; 5665
BstSLI	GKGC!C	9	1361; 1919; 2004; 2031; 2064; 2641; 3958; 4051; 5620
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	17	60; 693; 1913; 2661; 2936; 3312; 3332; 3356; 3387; 4078; 4379; 4817; 4901; 4964; 5033; 5306; 5887
Bst2UI	CC!WGG	26	90; 283; 645; 657; 786; 870; 882; 900; 963; 1527; 1674; 1680; 2124; 2172; 2268; 2283; 2412; 3548; 3603; 3620; 4399; 4978; 5081; 5771; 5784; 5905
BstV1I	GCAGCNNNNNNN!	12	700; 1202; 1619; 1804; 2158; 2600; 2800; 4085; 4127; 4648; 5101; 5601
BstV1I	!NNNNNNNNNNNGCTGC	11	1064; 1213; 1457; 1612; 2277; 3294; 3959; 4143; 4236; 5302; 5508
BstV2I	GAAGACNN!	1	2248
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	1	1343
BstX2I	R!GATCY	13	585; 733; 1015; 1618; 1922; 2487; 4183; 4429; 4821; 5180; 5192; 5278; 5289
BstYI	R!GATCY	13	585; 733; 1015; 1618; 1922; 2487; 4183; 4429; 4821; 5180; 5192; 5278; 5289
BstZI	C!GGCCG	3	678; 2656; 3918
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3441; 4231; 5732
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3852

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Bsu36I	CC!TNAGG	5	1005; 1569; 2206; 3492; 5124
BsuRI	GG!CC	41	84; 277; 680; 696; 784; 789; 873; 1116; 1267; 1359; 1551; 1584; 1677; 1692; 1917; 2098; 2341; 2376; 2410; 2433; 2455; 2565; 2607; 2658; 2978; 3120; 3775; 3781; 3790; 3833; 3920; 4094; 4485; 4512; 5021; 5078; 5111; 5456; 5890; 5908; 5919
BsuTUI	AT!CGAT	1	3852
BtgI	C!CRYGG	7	360; 1145; 1300; 1911; 1939; 3741; 4444
BtgZI	GCGATGNNNNNNNNNN!	2	3129; 4464
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 4283; 4627
BthCI	GCNG!C	46	691; 696; 769; 1080; 1193; 1229; 1473; 1610; 1628; 1744; 1795; 2098; 2149; 2293; 2410; 2591; 2658; 2661; 2791; 3310; 3332; 3346; 3784; 3923; 3975; 3986; 4076; 4081; 4118; 4159; 4246; 4249; 4252; 4488; 4584; 4625; 4639; 4753; 5092; 5107; 5318; 5524; 5527; 5592; 5735; 5890
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2851
BtsCI	GGATGNN!	5	1847; 3872; 4329; 4354; 4808
BtsCI	!CATCC	9	826; 1141; 1351; 1810; 2031; 2119; 2176; 2331; 3698
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	4280; 4730
BveI	!NNNNNNNNNGCAGGT	1	3899
Cac8I	GCN!NGC	40	86; 279; 593; 698; 710; 1043; 1114; 1286; 1375; 1553; 1586; 1645; 1746; 1915; 2049; 2253; 3231; 3274; 3288; 3561; 3580; 3633; 3652; 3906; 4092; 4311; 4377; 4383; 4415; 4456; 4460; 4514; 4797; 4984; 5031; 5087; 5109; 5320; 5880; 5917
CaiI	CAGNN!CTG	5	714; 973; 2614; 5113; 5521
CciI	T!CATGA	3	1234; 3438; 5210
CciNI	GC!GGCCGC	1	2656
CdiI	CATC!G	8	352; 998; 1049; 1890; 4301; 4306; 4504; 4645
CdiI	C!GATG	2	3115; 4450
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5884
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	4	486; 1133; 3673; 3715
CelII	GC!TNAGC	0	
CfoI	GCG!C	26	662; 675; 693; 714; 1123; 1672; 3278; 3286; 3312; 3334; 3343; 3356; 3387; 4006; 4014; 4078; 4115; 4381; 4641; 4817; 4903; 5306; 5415; 5589; 5689; 5756
CfrI	Y!GGCCR	10	678; 694; 787; 1114; 2605; 2656; 3918; 4092; 4483; 4510
Cfr9I	C!CCGGG	2	1654; 1918
Cfr10I	R!CCGGY	7	637; 680; 1928; 3229; 4331; 4512; 4795
Cfr13I	G!GNCC	24	83; 276; 640; 775; 782; 957; 1001; 1328; 1358; 1583; 1676; 1691; 1916; 2097; 2340; 2432; 2453; 2537; 3119; 4528; 4973; 5019; 5077; 5110
Cfr42I	CCGC!GG	1	1914
ChaI	GATC!	30	589; 737; 995; 1019; 1208; 1343; 1523; 1622; 1730; 1926; 2315; 2465; 2491; 2673; 3853; 3857; 3876; 4187; 4265; 4346; 4355; 4433; 4809; 4825; 5184; 5196; 5274; 5282; 5293; 5368
CjeI	CCANNNNNGTNNNNNNNNNNNNNNNN!	5	2043; 3829; 5269; 5369; 5447
CjeI	!NNNNNNNNNACNNNNNNNTGG	9	64; 257; 1177; 1392; 3496; 3591; 4783; 5333; 5888
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	9	98; 291; 1211; 1426; 3530; 3625; 4817; 5367; 5922
CjeI	!NNNNNNNNCCANNNNNNNGT	5	2009; 3795; 5235; 5335; 5413
CjePI	CCANNNNNNNTCNNNNNNNNNNNNNN!	3	1559; 5269; 5447
CjePI	!NNNNNNNNNGANNNNNNNTGG	8	257; 1177; 1392; 1826; 2068; 2413; 4783; 5382
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	8	290; 1210; 1425; 1859; 2101; 2446; 4816; 5415
CjePI	!NNNNNNNNCCANNNNNNNTC	3	1526; 5236; 5414
Clai	AT!CGAT	1	3852
CpoI	CG!GWCCG	1	4528
CseI	GACGCNNNNN!	4	526; 1490; 4722; 4801
CseI	!NNNNNNNNNNNGCGTC	5	689; 2513; 3345; 5240; 5818
CsiI	A!CCWGGT	1	3601
CspI	CG!GWCCG	1	4528
Csp6I	G!TAC	13	218; 243; 298; 331; 382; 539; 1406; 1501; 1908; 1991; 2141; 2393; 4317
Csp45I	TT!CGAA	1	4694
CspAI	A!CCGGT	2	637; 1928
CspCI	CAANNNNNGTGGNNNNNNNNNNNNNN!	2	411; 1047

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNGTG	2	376; 1012
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	6	865; 1243; 1993; 2584; 3292; 4901
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	32	301; 361; 599; 770; 848; 1118; 1146; 1235; 1343; 1535; 1802; 1940; 1976; 1982; 1994; 2072; 2138; 2218; 2429; 3439; 3579; 3651; 3742; 3883; 4228; 4414; 4445; 4471; 4827; 5211; 5931; 5982
CviJI	RG!CY	133	42; 84; 93; 277; 566; 604; 649; 667; 680; 696; 721; 757; 784; 789; 801; 856; 873; 898; 920; 979; 1011; 1112; 1116; 1151; 1193; 1212; 1226; 1267; 1275; 1288; 1359; 1373; 1377; 1397; 1470; 1493; 1551; 1555; 1567; 1584; 1610; 1643; 1677; 1692; 1715; 1722; 1917; 1961; 1988; 2051; 2098; 2127; 2134; 2212; 2278; 2290; 2341; 2368; 2376; 2410; 2433; 2441; 2455; 2565; 2601; 2607; 2658; 2681; 2791; 2958; 2978; 3120; 3201; 3215; 3229; 3510; 3551; 3623; 3746; 3775; 3781; 3790; 3798; 3821; 3833; 3839; 3920; 3937; 3945; 3972; 3997; 4081; 4090; 4094; 4118; 4156; 4232; 4249; 4268; 4331; 4375; 4385; 4402; 4485; 4512; 4516; 4553; 4576; 4592; 4772; 4799; 4860; 4982; 5021; 5078; 5085; 5092; 5111; 5122; 5373; 5402; 5445; 5456; 5521; 5600; 5625; 5630; 5676; 5766; 5864; 5890; 5908; 5919
CviKI-1	RG!CY	133	42; 84; 93; 277; 566; 604; 649; 667; 680; 696; 721; 757; 784; 789; 801; 856; 873; 898; 920; 979; 1011; 1112; 1116; 1151; 1193; 1212; 1226; 1267; 1275; 1288; 1359; 1373; 1377; 1397; 1470; 1493; 1551; 1555; 1567; 1584; 1610; 1643; 1677; 1692; 1715; 1722; 1917; 1961; 1988; 2051; 2098; 2127; 2134; 2212; 2278; 2290; 2341; 2368; 2376; 2410; 2433; 2441; 2455; 2565; 2601; 2607; 2658; 2681; 2791; 2958; 2978; 3120; 3201; 3215; 3229; 3510; 3551; 3623; 3746; 3775; 3781; 3790; 3798; 3821; 3833; 3839; 3920; 3937; 3945; 3972; 3997; 4081; 4090; 4094; 4118; 4156; 4232; 4249; 4268; 4331; 4375; 4385; 4402; 4485; 4512; 4516; 4553; 4576; 4592; 4772; 4799; 4860; 4982; 5021; 5078; 5085; 5092; 5111; 5122; 5373; 5402; 5445; 5456; 5521; 5600; 5625; 5630; 5676; 5766; 5864; 5890; 5908; 5919
CviQI	G!TAC	13	218; 243; 298; 331; 382; 539; 1406; 1501; 1908; 1991; 2141; 2393; 4317
DdeI	C!TNAG	20	1005; 1012; 1324; 1414; 1459; 1474; 1494; 1569; 1723; 1858; 1881; 1948; 2206; 2503; 3492; 3794; 4675; 5124; 5247; 5656
DinI	GGC!GCC	3	661; 674; 4013
DpnI	GA!TC	30	587; 735; 993; 1017; 1206; 1341; 1521; 1620; 1728; 1924; 2313; 2463; 2489; 2671; 3851; 3855; 3874; 4185; 4263; 4344; 4353; 4431; 4807; 4823; 5182; 5194; 5272; 5280; 5291; 5366
DpnII	!GATC	30	585; 733; 991; 1015; 1204; 1339; 1519; 1618; 1726; 1922; 2311; 2461; 2487; 2669; 3849; 3853; 3872; 4183; 4261; 4342; 4351; 4429; 4805; 4821; 5180; 5192; 5270; 5278; 5289; 5364
DraI	TTT!AAA	3	2714; 5156; 5175
DraII	RG!GNCCY	6	782; 957; 1001; 1328; 1691; 5110
DraIII	CACNN!GTG	2	2597; 3128
DraRI	CAAGNACNNNNNNNNNNNNNNNNNN!	3	266; 1429; 5492
DraRI	!NNNNNNNNNNNNNNNNNGTCTTG	1	1492
DrdI	GACNNN!NNGTC	4	1092; 3083; 4039; 5828
DrdIV	TACGACNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	2	963; 1503
DseDI	GACNNN!NNGTC	4	1092; 3083; 4039; 5828
EaeI	Y!GGCCR	10	678; 694; 787; 1114; 2605; 2656; 3918; 4092; 4483; 4510
EagI	C!GGCCG	3	678; 2656; 3918
Eam1104I	CTCTCN!	1	1236
Eam1104I	!NNNNGAAGAG	5	1246; 1951; 3479; 4356; 4566
Eam1105I	GACNN!NNGTC	2	963; 1503
EarI	CTCTCN!	1	1236
EarI	!NNNNGAAGAG	5	1246; 1951; 3479; 4356; 4566
EciI	GGCGANNNNNNNNNNNN!	4	3512; 4541; 5728; 5874
EciI	!NNNNNNNNNTCCGCC	4	496; 3683; 3704; 3725
Ecl136II	GAG!CTC	0	
EclXI	C!GGCCG	3	678; 2656; 3918
Eco24I	GRGCY!C	9	651; 723; 1013; 1153; 1361; 1919; 3203; 4377; 5087
Eco31I	GGTCTCN!	1	1417

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Eco31I	!NNNNNGAGACC	5	837; 897; 1854; 2568; 5001
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	8	640; 775; 957; 1001; 1328; 2537; 4528; 4973
Eco47III	AGC!GCT	0	
Eco52I	C!GGCCG	3	678; 2656; 3918
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	4	1566; 2457; 4158; 4590
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	743; 5388
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	5	1005; 1569; 2206; 3492; 5124
Eco88I	C!YCGRG	2	1654; 1918
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	9	360; 1145; 1513; 1783; 1939; 3741; 3834; 4444; 4849
Eco147I	AGG!CCT	2	1267; 3833
EcoHI	!CCSGG	16	675; 729; 777; 792; 801; 934; 1354; 1653; 1654; 1917; 1918; 2519; 4014; 4174; 4787; 5551
EcoICRI	GAG!CTC	0	
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	9	921; 995; 1215; 1566; 1737; 2457; 4158; 4590; 4852
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	4	743; 2265; 4795; 5388
EcoNI	CCTNN!NNNAGG	1	1572
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	6	782; 957; 1001; 1328; 1691; 5110
EcoRI	G!AATTC	1	1891
EcoRII	!CCWGG	26	88; 281; 643; 655; 784; 868; 880; 898; 961; 1525; 1672; 1678; 2122; 2170; 2266; 2281; 2410; 3546; 3601; 3618; 4397; 4976; 5079; 5769; 5782; 5903
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	9	360; 1145; 1513; 1783; 1939; 3741; 3834; 4444; 4849
EcoT22I	ATGCA!T	3	3584; 3656; 5987
EcoT38I	GRGCY!C	9	651; 723; 1013; 1153; 1361; 1919; 3203; 4377; 5087
Eco53kI	GAG!CTC	0	
EgeI	GGC!GCC	3	661; 674; 4013
EheI	GGC!GCC	3	661; 674; 4013
ErhI	C!CWWGG	9	360; 1145; 1513; 1783; 1939; 3741; 3834; 4444; 4849
EsaBC3I	TC!GA	19	998; 1208; 1523; 1890; 1903; 2090; 2117; 2585; 3162; 3853; 4126; 4282; 4306; 4342; 4504; 4695; 4740; 4995; 5833
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	2	1470; 1490
FaeI	CATG!	32	304; 364; 602; 773; 851; 1121; 1149; 1238; 1346; 1538; 1805; 1943; 1979; 1985; 1997; 2075; 2141; 2221; 2432; 3442; 3582; 3654; 3745; 3886; 4231; 4417; 4448; 4474; 4830; 5214; 5934; 5985
Fail	YA!TR	75	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 600; 706; 771; 849; 1102; 1119; 1147; 1236; 1344; 1366; 1536; 1687; 1803; 1941; 1977; 1983; 1995; 2073; 2139; 2219; 2237; 2430; 2483; 2533; 2674; 2684; 2750; 2795; 3000; 3428; 3440; 3571; 3580; 3643; 3652; 3676; 3743; 3767; 3884; 3948; 4229; 4254; 4415; 4446; 4472; 4544; 4760; 4828; 4906; 4958; 5119; 5136; 5138; 5140; 5212; 5490; 5679; 5795; 5868; 5932; 5983
FalI	AAGNNNNNCTNNNNNNNNNNNN!	3	1571; 2216; 4352
FalI	!NNNNNNNNAAGNNNNNCTT	3	1539; 2184; 4320
FaqI	GGGACNNNNNNNNNN!	8	175; 326; 494; 970; 1678; 4163; 4695; 4804
FaqI	!NNNNNNNNNNNNNGTCCC	6	626; 728; 3528; 3600; 3664; 4959
FatI	!CATG	32	300; 360; 598; 769; 847; 1117; 1145; 1234; 1342; 1534; 1801; 1939; 1975; 1981; 1993; 2071; 2137; 2217; 2428; 3438; 3578; 3650; 3741; 3882; 4227; 4413; 4444; 4470; 4826; 5210; 5930; 5981
FauI	CCCGCNNNN!	14	93; 119; 286; 753; 1050; 1593; 1836; 2405; 2507; 3334; 3689; 3710; 4906; 5038
FauI	!NNNNNNNGCGGG	7	1906; 2442; 3265; 4135; 4672; 4810; 4957
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FbII	GT!MKAC	2	1902; 2527
FmuI	GGNC!C	24	86; 279; 643; 778; 785; 960; 1004; 1331; 1361; 1586; 1679; 1694; 1919; 2100; 2343; 2435; 2456; 2540; 3122; 4531; 4976; 5022; 5080; 5113

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fnu4HI	GC!NGC	46	689; 694; 767; 1078; 1191; 1227; 1471; 1608; 1626; 1742; 1793; 2096; 2147; 2291; 2408; 2589; 2656; 2659; 2789; 3308; 3330; 3344; 3782; 3921; 3973; 3984; 4074; 4079; 4116; 4157; 4244; 4247; 4250; 4486; 4582; 4623; 4637; 4751; 5090; 5105; 5316; 5522; 5525; 5590; 5733; 5888
FokI	GGATGNNNNNNNNNN!	5	1854; 3879; 4336; 4361; 4815
FokI	!NNNNNNNNNNNNNNCATCC	9	813; 1128; 1338; 1797; 2018; 2106; 2163; 2318; 3685
FriOI	GRGCY!C	9	651; 723; 1013; 1153; 1361; 1919; 3203; 4377; 5087
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	4114
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	10	592; 1398; 2626; 2667; 2861; 3279; 3835; 4850; 5184; 5437
FspEI	CCNNNNNNNNNNNN!	204	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 611; 632; 651; 669; 689; 710; 743; 758; 791; 806; 843; 860; 879; 894; 912; 927; 948; 973; 993; 1017; 1055; 1082; 1130; 1158; 1187; 1260; 1281; 1298; 1313; 1328; 1344; 1368; 1401; 1448; 1521; 1539; 1565; 1581; 1598; 1635; 1667; 1686; 1706; 1745; 1796; 1814; 1835; 1877; 1924; 1939; 2018; 2048; 2065; 2079; 2112; 2126; 2144; 2168; 2183; 2213; 2246; 2273; 2288; 2307; 2343; 2390; 2409; 2424; 2447; 2469; 2492; 2512; 2533; 2553; 2579; 2621; 2637; 2672; 2695; 2734; 2748; 2889; 2984; 3008; 3031; 3054; 3072; 3094; 3115; 3134; 3153; 3182; 3203; 3217; 3243; 3331; 3357; 3406; 3447; 3465; 3504; 3520; 3558; 3615; 3630; 3687; 3707; 3721; 3738; 3752; 3789; 3804; 3847; 3930; 3997; 4028; 4048; 4063; 4108; 4122; 4188; 4202; 4221; 4237; 4278; 4298; 4345; 4395; 4411; 4431; 4456; 4476; 4499; 4526; 4544; 4570; 4610; 4636; 4660; 4716; 4730; 4758; 4801; 4822; 4857; 4901; 4989; 5013; 5035; 5055; 5071; 5092; 5106; 5125; 5209; 5229; 5257; 5272; 5306; 5348; 5375; 5390; 5435; 5459; 5473; 5495; 5521; 5541; 5565; 5591; 5639; 5658; 5677; 5703; 5738; 5783; 5813; 5827; 5878; 5892; 5917; 5933; 5954; 5983
FspEI	!NNNNNNNNNNNNNNNGG	173	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 623; 642; 662; 694; 716; 746; 764; 787; 805; 825; 855; 878; 899; 920; 939; 959; 984; 1017; 1098; 1116; 1143; 1179; 1203; 1239; 1276; 1311; 1329; 1359; 1377; 1410; 1446; 1500; 1533; 1556; 1587; 1629; 1647; 1665; 1692; 1734; 1759; 1817; 1836; 1868; 1890; 1914; 1935; 1953; 1980; 2022; 2043; 2067; 2109; 2128; 2157; 2193; 2230; 2253; 2272; 2302; 2323; 2350; 2389; 2415; 2434; 2506; 2532; 2580; 2619; 2640; 2683; 2783; 2852; 2882; 2960; 3009; 3031; 3059; 3095; 3140; 3169; 3205; 3224; 3252; 3272; 3335; 3358; 3466; 3498; 3516; 3545; 3588; 3617; 3728; 3757; 3800; 3821; 3849; 3882; 3902; 3927; 3954; 3979; 4001; 4029; 4055; 4076; 4127; 4148; 4166; 4214; 4250; 4306; 4331; 4355; 4384; 4407; 4431; 4457; 4479; 4498; 4523; 4563; 4599; 4664; 4749; 4773; 4802; 4836; 4857; 4877; 4922; 4949; 4968; 5001; 5053; 5084; 5111; 5163; 5261; 5332; 5377; 5438; 5503; 5537; 5563; 5581; 5617; 5687; 5710; 5732; 5756; 5789; 5837; 5872; 5890; 5947
Fsp4HI	GC!NGC	46	689; 694; 767; 1078; 1191; 1227; 1471; 1608; 1626; 1742; 1793; 2096; 2147; 2291; 2408; 2589; 2656; 2659; 2789; 3308; 3330; 3344; 3782; 3921; 3973; 3984; 4074; 4079; 4116; 4157; 4244; 4247; 4250; 4486; 4582; 4623; 4637; 4751; 5090; 5105; 5316; 5522; 5525; 5590; 5733; 5888
GdiII	C!GGCCR	4	678; 694; 2656; 3918
GdiII	Y!GGCCG	5	678; 2656; 3918; 4483; 4510
GlaI	GC!GC	26	661; 674; 692; 713; 1122; 1671; 3277; 3285; 3311; 3333; 3342; 3355; 3386; 4005; 4013; 4077; 4114; 4380; 4640; 4816; 4902; 5305; 5414; 5588; 5688; 5755
GluI	GC!NGC	46	689; 694; 767; 1078; 1191; 1227; 1471; 1608; 1626; 1742; 1793; 2096; 2147; 2291; 2408; 2589; 2656; 2659; 2789; 3308; 3330; 3344; 3782; 3921; 3973; 3984; 4074; 4079; 4116; 4157; 4244; 4247; 4250; 4486; 4582; 4623; 4637; 4751; 5090; 5105; 5316; 5522; 5525; 5590; 5733; 5888
GsaI	CCCAG!C	4	667; 3559; 3631; 5630
GsaI	GCTGG!G	3	718; 2372; 4520
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	5	921; 995; 1215; 1737; 4852
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	2265; 4795
HaeI	WGG!CCW	12	789; 873; 1116; 1267; 1551; 2376; 2607; 3833; 4094; 5456; 5908; 5919
HaeII	RGCGC!Y	8	663; 676; 715; 1673; 3279; 3287; 4015; 5690

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HaeIII	GG!CC	41	84; 277; 680; 696; 784; 789; 873; 1116; 1267; 1359; 1551; 1584; 1677; 1692; 1917; 2098; 2341; 2376; 2410; 2433; 2455; 2565; 2607; 2658; 2978; 3120; 3775; 3781; 3790; 3833; 3920; 4094; 4485; 4512; 5021; 5078; 5111; 5456; 5890; 5908; 5919
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	4	982; 1522; 2687; 4208
HaeIV	!NNNNNNNNNGAYNNNNNRTC	4	948; 1488; 2653; 4174
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNNN!	4	981; 1521; 2686; 4207
HaeIV	!NNNNNNNNNGAYNNNNNRTC	4	950; 1490; 2655; 4176
HapII	C!CGG	31	638; 677; 681; 731; 778; 793; 802; 914; 935; 1355; 1655; 1832; 1919; 1929; 2521; 3230; 3917; 3994; 4016; 4044; 4175; 4265; 4332; 4513; 4788; 4796; 4888; 5362; 5552; 5578; 5725
HgaI	GACGCNNNNN!	4	526; 1490; 4722; 4801
HgaI	!NNNNNNNNNNNGCGTC	5	689; 2513; 3345; 5240; 5818
HhaI	GCG!C	26	662; 675; 693; 714; 1123; 1672; 3278; 3286; 3312; 3334; 3343; 3356; 3387; 4006; 4014; 4078; 4115; 4381; 4641; 4817; 4903; 5306; 5415; 5589; 5689; 5756
HinI	GR!CGYC	10	122; 175; 258; 444; 660; 673; 2524; 4012; 4714; 4793
Hin1II	CATG!	32	304; 364; 602; 773; 851; 1121; 1149; 1238; 1346; 1538; 1805; 1943; 1979; 1985; 1997; 2075; 2141; 2221; 2432; 3442; 3582; 3654; 3745; 3886; 4231; 4417; 4448; 4474; 4830; 5214; 5934; 5985
Hin4I	GAYNNNNNVTCNNNNNNNNNNNNNN!	6	981; 1228; 1521; 1547; 2686; 4207
Hin4I	!NNNNNNNNNGABNNNNNRTC	5	949; 1489; 2654; 4175; 4205
Hin4I	GABNNNNNRTCNNNNNNNNNNNNNN!	5	981; 1521; 2686; 4207; 4237
Hin4I	!NNNNNNNNNGAYNNNNNVTC	6	949; 1196; 1489; 1515; 2654; 4175
Hin6I	G!CGC	26	660; 673; 691; 712; 1121; 1670; 3276; 3284; 3310; 3332; 3341; 3354; 3385; 4004; 4012; 4076; 4113; 4379; 4639; 4815; 4901; 5304; 5413; 5587; 5687; 5754
HinP1I	G!CGC	26	660; 673; 691; 712; 1121; 1670; 3276; 3284; 3310; 3332; 3341; 3354; 3385; 4004; 4012; 4076; 4113; 4379; 4639; 4815; 4901; 5304; 5413; 5587; 5687; 5754
HincII	GTY!RAC	3	1297; 1903; 2775
HindII	GTY!RAC	3	1297; 1903; 2775
HindIII	A!AGCTT	0	
HinfI	G!ANTC	18	410; 1093; 1530; 1635; 2077; 2227; 2554; 2663; 3055; 3077; 3487; 4497; 4631; 4683; 4741; 4778; 5560; 5956
HpaI	GTT!AAC	1	2775
HpaII	C!CGG	31	638; 677; 681; 731; 778; 793; 802; 914; 935; 1355; 1655; 1832; 1919; 1929; 2521; 3230; 3917; 3994; 4016; 4044; 4175; 4265; 4332; 4513; 4788; 4796; 4888; 5362; 5552; 5578; 5725
HphI	GGTGANNNNNNNN!	5	376; 1788; 2333; 5083; 5199
HphI	!NNNNNNNTCACC	5	599; 1436; 2222; 3129; 4190
Hpy8I	GTN!NAC	16	201; 539; 577; 1034; 1297; 1903; 2009; 2029; 2324; 2528; 2537; 2775; 3059; 3076; 3131; 5618
Hpy99I	CGWCG!	10	1484; 1907; 2586; 4102; 4130; 4424; 4439; 4716; 5101; 5834
Hpy166II	GTN!NAC	16	201; 539; 577; 1034; 1297; 1903; 2009; 2029; 2324; 2528; 2537; 2775; 3059; 3076; 3131; 5618
Hpy188I	TCN!GA	20	585; 969; 1015; 1381; 1546; 1640; 1859; 1882; 2036; 2316; 3186; 3795; 3979; 4323; 4676; 4777; 5256; 5390; 5743; 5821
Hpy188III	TC!NNGA	27	830; 989; 1235; 1326; 2309; 2474; 2513; 2667; 3439; 3491; 3804; 3857; 4030; 4346; 4355; 4438; 4494; 4538; 4628; 4661; 4730; 5211; 5285; 5368; 5466; 5564; 5698
HpyAV	CCTCANNNNNN!	7	632; 2117; 2165; 2210; 4657; 4764; 5443
HpyAV	!NNNNNGAAGG	12	833; 947; 1541; 2037; 2409; 3245; 4140; 4869; 4885; 5068; 5385; 5695
HpyCH4III	ACN!GT	20	76; 198; 269; 543; 581; 1031; 1301; 1439; 1453; 1505; 1907; 2006; 3103; 4392; 4508; 4616; 4939; 5430; 5900; 5971
HpyCH4IV	A!CGT	17	122; 134; 175; 258; 339; 444; 1499; 2305; 2581; 3072; 3084; 3127; 3237; 4128; 4315; 5096; 5229
HpyCH4V	TG!CA	27	708; 851; 1055; 1190; 1628; 1805; 1898; 1979; 2029; 2351; 2467; 2761; 2788; 2856; 3573; 3582; 3645; 3654; 3769; 3845; 3904; 4063; 4238; 4252; 5322; 5618; 5985
HpyF3I	C!TNAG	20	1005; 1012; 1324; 1414; 1459; 1474; 1494; 1569; 1723; 1858; 1881; 1948; 2206; 2503; 3492; 3794; 4675; 5124; 5247; 5656
HpyF10VI	GCNNNNN!NNGC	37	90; 212; 244; 283; 376; 400; 601; 697; 718; 754; 1074; 1118; 1281; 1490; 1590; 1728; 1985; 2416; 3239; 3269; 3296; 3338; 3579; 3651; 3702; 3781; 4003; 4087; 4110; 4249; 4372; 4455; 4722; 4909; 5113; 5312; 5884
Hsp92I	GR!CGYC	10	122; 175; 258; 444; 660; 673; 2524; 4012; 4714; 4793

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hsp92II	CATG!	32	304; 364; 602; 773; 851; 1121; 1149; 1238; 1346; 1538; 1805; 1943; 1979; 1985; 1997; 2075; 2141; 2221; 2432; 3442; 3582; 3654; 3745; 3886; 4231; 4417; 4448; 4474; 4830; 5214; 5934; 5985
HspAI	G!CGC	26	660; 673; 691; 712; 1121; 1670; 3276; 3284; 3310; 3332; 3341; 3354; 3385; 4004; 4012; 4076; 4113; 4379; 4639; 4815; 4901; 5304; 5413; 5587; 5687; 5754
KasI	G!GCGCC	3	659; 672; 4011
KfII	GG!GWCCC	1	957
KpnI	GGTAC!C	1	1911
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	1914
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	2775
Kzo9I	!GATC	30	585; 733; 991; 1015; 1204; 1339; 1519; 1618; 1726; 1922; 2311; 2461; 2487; 2669; 3849; 3853; 3872; 4183; 4261; 4342; 4351; 4429; 4805; 4821; 5180; 5192; 5270; 5278; 5289; 5364
LguI	GCTCTTCN!	1	1236
LguI	!NNNGAAGAGC	3	1951; 4356; 4566
LpnI	RGC!GCV	8	661; 674; 713; 1671; 3277; 3285; 4013; 5688
LpnPI	CCDGNNNNNNNNN!	88	102; 295; 651; 669; 690; 710; 744; 767; 791; 806; 843; 870; 894; 912; 927; 948; 975; 1017; 1137; 1290; 1368; 1521; 1539; 1565; 1581; 1635; 1668; 1686; 1707; 1758; 1845; 1932; 2079; 2136; 2184; 2218; 2280; 2295; 2356; 2424; 2448; 2472; 2534; 2621; 2749; 3054; 3243; 3466; 3504; 3520; 3560; 3615; 3632; 3732; 3817; 3930; 4007; 4029; 4052; 4188; 4202; 4221; 4278; 4345; 4395; 4411; 4468; 4526; 4735; 4801; 4825; 4901; 4990; 5093; 5126; 5357; 5375; 5521; 5541; 5565; 5591; 5640; 5738; 5783; 5813; 5892; 5917; 5954
LpnPI	!NNNNNNNNNNNNNCHGG	78	75; 268; 552; 623; 642; 662; 694; 716; 746; 771; 795; 855; 885; 906; 948; 1098; 1179; 1276; 1311; 1340; 1359; 1394; 1512; 1629; 1659; 1701; 1734; 1817; 1904; 2109; 2157; 2253; 2354; 2397; 2506; 2532; 2619; 3095; 3215; 3272; 3335; 3533; 3545; 3605; 3617; 3849; 3894; 3937; 3979; 4001; 4029; 4076; 4138; 4160; 4250; 4317; 4340; 4384; 4479; 4498; 4523; 4672; 4773; 4816; 4873; 4963; 5066; 5093; 5111; 5347; 5384; 5537; 5563; 5703; 5721; 5756; 5837; 5890
Lsp1109I	GCAGCNNNNNNNN!	12	700; 1202; 1619; 1804; 2158; 2600; 2800; 4085; 4127; 4648; 5101; 5601
Lsp1109I	!NNNNNNNNNNNGCTGC	11	1064; 1213; 1457; 1612; 2277; 3294; 3959; 4143; 4236; 5302; 5508
LweI	GCATCNNNNN!	10	835; 1054; 1895; 2185; 2828; 3591; 3663; 4311; 4375; 4650
LweI	!NNNNNNNNNGATGC	10	357; 1301; 1769; 2338; 2377; 2506; 3970; 4225; 4441; 5833
MabI	A!CCWGGT	1	3601
MaeI	C!TAG	10	592; 1398; 2626; 2667; 2861; 3279; 3835; 4850; 5184; 5437
MaeII	A!CGT	17	122; 134; 175; 258; 339; 444; 1499; 2305; 2581; 3072; 3084; 3127; 3237; 4128; 4315; 5096; 5229
MaeIII	!GTNAC	13	61; 148; 497; 2228; 2800; 3301; 3313; 4132; 4438; 5128; 5394; 5510; 5573
MalI	GA!TC	30	587; 735; 993; 1017; 1206; 1341; 1521; 1620; 1728; 1924; 2313; 2463; 2489; 2671; 3851; 3855; 3874; 4185; 4263; 4344; 4353; 4431; 4807; 4823; 5182; 5194; 5272; 5280; 5291; 5366
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	3	748; 3436; 4625
MbiI	GAG!CGG	3	2655; 3272; 4679
MboI	!GATC	30	585; 733; 991; 1015; 1204; 1339; 1519; 1618; 1726; 1922; 2311; 2461; 2487; 2669; 3849; 3853; 3872; 4183; 4261; 4342; 4351; 4429; 4805; 4821; 5180; 5192; 5270; 5278; 5289; 5364
MboII	GAAGANNNNNNNN!	13	962; 1250; 1263; 1394; 1764; 1968; 2253; 2366; 3268; 3496; 4373; 4583; 5202
MboII	!NNNNNNNTCTTC	6	1010; 1223; 4663; 4830; 5030; 5273
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2762
MfII	R!GATCY	13	585; 733; 1015; 1618; 1922; 2487; 4183; 4429; 4821; 5180; 5192; 5278; 5289

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MhII	GDGCH!C	21	651; 723; 943; 1013; 1153; 1361; 1434; 1444; 1919; 2004; 2031; 2064; 2641; 3203; 3958; 4051; 4125; 4315; 4377; 5087; 5620
MIsI	TGG!CCA	4	789; 1116; 2607; 4094
MluI	A!CGCGT	0	
MluNI	TGG!CCA	4	789; 1116; 2607; 4094
MlyI	GAGTCNNNNN!	5	1102; 1644; 2236; 3064; 3496
MlyI	!NNNNNGACTC	6	404; 1524; 2657; 3071; 4677; 5554
Mly113I	GG!CGCC	3	660; 673; 4012
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	2359; 3105
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	3	1445; 5537; 5721
MnII	CCTCNNNNNN!	14	884; 1341; 2110; 2289; 2304; 2520; 2631; 2731; 3795; 4613; 4819; 5133; 5503; 5827
MnII	!NNNNNGAGG	40	541; 816; 886; 910; 992; 1202; 1214; 1247; 1298; 1385; 1418; 1454; 1564; 1574; 1655; 1682; 1712; 1754; 1876; 1991; 2030; 2051; 2084; 2201; 2310; 2366; 2555; 2588; 2691; 3156; 3487; 3765; 3808; 3823; 3863; 3927; 4063; 4420; 4850; 5753
Mph1103I	ATGCA!T	3	3584; 3656; 5987
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	3	3229; 4512; 4795
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	4	789; 1116; 2607; 4094
MseI	T!TAA	19	7; 1768; 1966; 2191; 2647; 2713; 2774; 2895; 2916; 2927; 2939; 2950; 2967; 3065; 3336; 5155; 5169; 5174; 5226
MslI	CAYNN!NNRTG	6	365; 1437; 1941; 1980; 2385; 4449
MspI	C!CGG	31	638; 677; 681; 731; 778; 793; 802; 914; 935; 1355; 1655; 1832; 1919; 1929; 2521; 3230; 3917; 3994; 4016; 4044; 4175; 4265; 4332; 4513; 4788; 4796; 4888; 5362; 5552; 5578; 5725
Msp20I	TGG!CCA	4	789; 1116; 2607; 4094
MspA1I	CMG!CKG	7	1193; 1913; 2400; 3510; 4118; 5347; 5592
MspCI	C!TTAAG	1	2894
MspJI	CNNRNNNNNNNN!	313	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; 611; 625; 643; 656; 669; 688; 704; 721; 736; 752; 766; 782; 797; 814; 842; 860; 881; 894; 911; 926; 941; 956; 973; 986; 1001; 1016; 1034; 1054; 1068; 1081; 1109; 1125; 1158; 1186; 1206; 1220; 1247; 1260; 1280; 1297; 1313; 1329; 1344; 1360; 1373; 1386; 1400; 1415; 1431; 1448; 1462; 1486; 1499; 1512; 1526; 1539; 1557; 1580; 1597; 1611; 1628; 1644; 1660; 1685; 1706; 1724; 1747; 1761; 1785; 1814; 1827; 1840; 1859; 1876; 1893; 1924; 1941; 1960; 1974; 1988; 2006; 2036; 2054; 2069; 2084; 2102; 2135; 2150; 2178; 2193; 2217; 2230; 2246; 2264; 2278; 2294; 2307; 2321; 2342; 2355; 2376; 2389; 2409; 2423; 2441; 2454; 2471; 2486; 2503; 2523; 2553; 2570; 2590; 2604; 2620; 2637; 2652; 2672; 2685; 2700; 2719; 2736; 2749; 2790; 2804; 2817; 2835; 2873; 2888; 2906; 2947; 2971; 2991; 3009; 3030; 3053; 3085; 3100; 3122; 3140; 3153; 3174; 3191; 3204; 3217; 3233; 3246; 3276; 3291; 3316; 3334; 3347; 3362; 3386; 3400; 3424; 3449; 3465; 3503; 3519; 3558; 3572; 3586; 3614; 3630; 3644; 3658; 3687; 3700; 3721; 3730; 3752; 3782; 3798; 3816; 3846; 3869; 3893; 3917; 3936; 3964; 3990; 4006; 4019; 4042; 4056; 4076; 4089; 4103; 4122; 4136; 4149; 4165; 4180; 4193; 4209; 4224; 4240; 4265; 4284; 4300; 4313; 4326; 4344; 4358; 4372; 4388; 4410; 4426; 4445; 4467; 4483; 4506; 4525; 4539; 4555; 4569; 4589; 4605; 4618; 4640; 4673; 4687; 4707; 4720; 4734; 4788; 4801; 4824; 4837; 4856; 4873; 4900; 4936; 4969; 4988; 5013; 5034; 5061; 5074; 5091; 5105; 5120; 5136; 5196; 5221; 5237; 5259; 5272; 5286; 5317; 5331; 5356; 5374; 5389; 5402; 5421; 5434; 5449; 5478; 5497; 5515; 5540; 5555; 5574; 5590; 5609; 5627; 5643; 5657; 5676; 5703; 5726; 5748; 5767; 5782; 5795; 5812; 5832; 5859; 5872; 5891; 5916; 5939; 5953; 5966; 5983

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	!NNNNNNNNNNNNNNYNG	253	8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 599; 624; 642; 662; 683; 701; 724; 746; 763; 780; 800; 822; 843; 867; 885; 907; 930; 948; 975; 992; 1017; 1038; 1055; 1076; 1099; 1116; 1134; 1169; 1194; 1221; 1258; 1276; 1311; 1329; 1351; 1375; 1395; 1441; 1461; 1481; 1500; 1521; 1538; 1556; 1576; 1602; 1620; 1640; 1659; 1680; 1698; 1731; 1759; 1788; 1814; 1843; 1866; 1898; 1915; 1935; 1953; 1980; 2010; 2034; 2052; 2076; 2095; 2117; 2157; 2178; 2204; 2224; 2253; 2295; 2329; 2350; 2370; 2397; 2415; 2432; 2450; 2478; 2499; 2518; 2544; 2566; 2589; 2612; 2638; 2664; 2693; 2722; 2764; 2847; 2882; 2909; 2932; 2961; 3005; 3027; 3059; 3095; 3112; 3133; 3170; 3190; 3207; 3224; 3259; 3277; 3295; 3312; 3336; 3358; 3385; 3413; 3439; 3477; 3498; 3515; 3533; 3556; 3577; 3605; 3628; 3649; 3667; 3688; 3705; 3728; 3752; 3772; 3790; 3812; 3843; 3865; 3891; 3910; 3927; 3955; 3974; 3993; 4011; 4029; 4050; 4072; 4096; 4129; 4149; 4167; 4188; 4214; 4241; 4258; 4275; 4292; 4318; 4340; 4362; 4380; 4400; 4419; 4441; 4479; 4499; 4523; 4543; 4563; 4590; 4614; 4647; 4666; 4694; 4716; 4745; 4773; 4798; 4817; 4836; 4857; 4874; 4891; 4922; 4949; 4969; 4992; 5012; 5049; 5066; 5085; 5111; 5131; 5170; 5197; 5216; 5234; 5271; 5289; 5330; 5348; 5374; 5391; 5423; 5452; 5480; 5501; 5524; 5543; 5564; 5582; 5599; 5617; 5643; 5664; 5684; 5704; 5722; 5743; 5769; 5786; 5805; 5824; 5853; 5872; 5890; 5909; 5927; 5945; 5968
MspR9I	CC!NGG	42	90; 283; 645; 657; 677; 731; 779; 786; 794; 803; 870; 882; 900; 936; 963; 1356; 1527; 1655; 1656; 1674; 1680; 1919; 1920; 2124; 2172; 2268; 2283; 2412; 2521; 3548; 3603; 3620; 4016; 4176; 4399; 4789; 4978; 5081; 5553; 5771; 5784; 5905
MssI	GTTT!AAC	0	
MunI	CA!AATTG	1	2762
MvaI	CC!WGG	26	90; 283; 645; 657; 786; 870; 882; 900; 963; 1527; 1674; 1680; 2124; 2172; 2268; 2283; 2412; 3548; 3603; 3620; 4399; 4978; 5081; 5771; 5784; 5905
Mva1269I	GAATGCN!	1	2763
Mva1269I	G!CATTC	1	2856
MvnI	CG!CG	17	60; 693; 1913; 2661; 2936; 3312; 3332; 3356; 3387; 4078; 4379; 4817; 4901; 4964; 5033; 5306; 5887
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	37	90; 212; 244; 283; 376; 400; 601; 697; 718; 754; 1074; 1118; 1281; 1490; 1590; 1728; 1985; 2416; 3239; 3269; 3296; 3338; 3579; 3651; 3702; 3781; 4003; 4087; 4110; 4249; 4372; 4455; 4722; 4909; 5113; 5312; 5884
NaeI	GCC!GGC	3	3231; 4514; 4797
NarI	GG!CGCC	3	660; 673; 4012
NciI	CC!SGG	16	677; 731; 779; 794; 803; 936; 1356; 1655; 1656; 1919; 1920; 2521; 4016; 4176; 4789; 5553
NcoI	C!CATGG	5	360; 1145; 1939; 3741; 4444
NdeI	CA!TATG	1	234
NdeII	!GATC	30	585; 733; 991; 1015; 1204; 1339; 1519; 1618; 1726; 1922; 2311; 2461; 2487; 2669; 3849; 3853; 3872; 4183; 4261; 4342; 4351; 4429; 4805; 4821; 5180; 5192; 5270; 5278; 5289; 5364
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	2068
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	2104
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	3	3229; 4512; 4795
NheI	G!CTAGC	1	591
NlaIII	CATG!	32	304; 364; 602; 773; 851; 1121; 1149; 1238; 1346; 1538; 1805; 1943; 1979; 1985; 1997; 2075; 2141; 2221; 2432; 3442; 3582; 3654; 3745; 3886; 4231; 4417; 4448; 4474; 4830; 5214; 5934; 5985
NlaIV	GGN!NCC	32	467; 642; 661; 674; 728; 776; 783; 897; 958; 978; 1152; 1359; 1620; 1909; 1917; 1924; 2003; 2063; 2454; 3167; 3188; 3200; 3391; 3552; 3624; 4013; 4048; 4896; 4975; 5020; 5863; 5902
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2844; 3159; 4751
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	4	347; 1759; 2328; 5823
Nli3877I	CYCGR!G	2	1658; 1922
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3801; 4237
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	2344; 3766

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NmeDI	RCCGGYNNNNNNNN!	7	649; 692; 1940; 3241; 4343; 4524; 4807
NmeDI	!NNNNNNNNNNNNRCCGGY	7	624; 667; 1915; 3216; 4318; 4499; 4782
NmuCI	!GTSAC	4	2228; 3301; 4132; 4438
NotI	GC!GGCCGC	1	2656
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	4114
NsiI	ATGCA!T	3	3584; 3656; 5987
NspI	RCATG!Y	5	1979; 3582; 3654; 4417; 5934
NspV	TT!CGAA	1	4694
OliI	CACNN!NNGTG	2	1437; 1941
PabI	GTA!C	13	220; 245; 300; 333; 384; 541; 1408; 1503; 1910; 1993; 2143; 2395; 4319
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3582; 3654; 4417
PaeR7I	C!TCGAG	0	
PagI	T!CATGA	3	1234; 3438; 5210
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	4	644; 2171; 4977; 5080
PauI	G!CGCGC	0	
PceI	AGG!CCT	2	1267; 3833
PciI	A!CATGT	1	5930
PciSI	GCTCTTCN!	1	1236
PciSI	!NNNNGAAGAGC	3	1951; 4356; 4566
PcsI	WCGNNNN!NNNCGW	8	1385; 2590; 4306; 4383; 4626; 4700; 5093; 5611
PctI	GAATGCN!	1	2763
PctI	G!CATTC	1	2856
PdiI	GCC!GGC	3	3231; 4514; 4797
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	2077; 2554; 4497; 4631; 4741; 4778; 5956
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	4130
PfIMI	CCANNNN!NTGG	3	1130; 1514; 2546
PfoI	T!CCNGGA	4	729; 934; 2281; 4787
PhoI	GG!CC	41	84; 277; 680; 696; 784; 789; 873; 1116; 1267; 1359; 1551; 1584; 1677; 1692; 1917; 2098; 2341; 2376; 2410; 2433; 2455; 2565; 2607; 2658; 2978; 3120; 3775; 3781; 3790; 3833; 3920; 4094; 4485; 4512; 5021; 5078; 5111; 5456; 5890; 5908; 5919
PinAI	A!CCGGT	2	637; 1928
PlaDI	CATCAGNNNNNNNNNNNNNNNNNNNNNN!	1	4393
PlaDI	!NNNNNNNNNNNNNNNNNNNNCTGATG	3	1061; 3958; 4213
PleI	GAGTCNNNN!	5	1101; 1643; 2235; 3063; 3495
PleI	!NNNNNGACTC	6	404; 1524; 2657; 3071; 4677; 5554
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	3094
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	5224
PpiI	GAGNNNNNGTTCNNNNNNNNNNNNNN!	1	5256
PpiI	!NNNNNNNGAACNNNNNNCTC	1	3062
PpsI	GAGTCNNNN!	5	1101; 1643; 2235; 3063; 3495
PpsI	!NNNNNGACTC	6	404; 1524; 2657; 3071; 4677; 5554
Ppu10I	A!TGCAT	3	3580; 3652; 5983
Ppu21I	YAC!GTR	3	340; 3128; 4316
PpuMI	RG!GWCCY	3	957; 1001; 1328
PscI	A!CATGT	1	5930
PshAI	GACNN!NNGTC	1	2580
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2795; 3000
Psp03I	GGWC!C	8	643; 778; 960; 1004; 1331; 2540; 4531; 4976
Psp5II	RG!GWCCY	3	957; 1001; 1328
Psp6I	!CCWGG	26	88; 281; 643; 655; 784; 868; 880; 898; 961; 1525; 1672; 1678; 2122; 2170; 2266; 2281; 2410; 3546; 3601; 3618; 4397; 4976; 5079; 5769; 5782; 5903
Psp1406I	AA!CGTT	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Psp124BI	GAGCT!C	0	
PspCI	CAC!GTG	0	
PspEI	G!GTNACC	0	
PspGI	!CCWGG	26	88; 281; 643; 655; 784; 868; 880; 898; 961; 1525; 1672; 1678; 2122; 2170; 2266; 2281; 2410; 3546; 3601; 3618; 4397; 4976; 5079; 5769; 5782; 5903
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	32	467; 642; 661; 674; 728; 776; 783; 897; 958; 978; 1152; 1359; 1620; 1909; 1917; 1924; 2003; 2063; 2454; 3167; 3188; 3200; 3391; 3552; 3624; 4013; 4048; 4896; 4975; 5020; 5863; 5902
PspOMI	G!GGCCC	2	1357; 1915
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNNNN!	4	125; 687; 3742; 4741
PspOMII	!NNNNNNNNNNNNNNNNNNNYTGGGCG	1	4144
PspPI	G!GNCC	24	83; 276; 640; 775; 782; 957; 1001; 1328; 1358; 1583; 1676; 1691; 1916; 2097; 2340; 2432; 2453; 2537; 3119; 4528; 4973; 5019; 5077; 5110
PspPPI	RG!GWCCY	3	957; 1001; 1328
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	4	980; 3565; 3637; 5143
PspPRI	!NNNNNNNNNNNNNCTGRGG	9	701; 991; 1445; 1555; 1867; 2192; 2620; 3478; 4673
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNNTAC	0	
PssI	RGGNC!CY	6	785; 960; 1004; 1331; 1694; 5113
PstI	CTGCA!G	3	1057; 1192; 1900
PstNI	CAGNNN!CTG	5	714; 973; 2614; 5113; 5521
PsuI	R!GATCY	13	585; 733; 1015; 1618; 1922; 2487; 4183; 4429; 4821; 5180; 5192; 5278; 5289
PsyI	GACN!NNGTC	1	4130
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1193; 3510; 4118
RcaI	T!CATGA	3	1234; 3438; 5210
RceI	CATCGACNNNNNNNNNNNNNNNNNNNN!	1	4527
RceI	!NNNNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNN!	1	2741
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGGACNNNNNNNNNNNNNNNNNNNN!	2	1024; 1786
RpaB5I	!NNNNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	13	219; 244; 299; 332; 383; 540; 1407; 1502; 1909; 1992; 2142; 2394; 4318
RsaNI	G!TAC	13	218; 243; 298; 331; 382; 539; 1406; 1501; 1908; 1991; 2141; 2393; 4317
RseI	CAYNN!NNRTG	6	365; 1437; 1941; 1980; 2385; 4449
RsrII	CG!GWCCG	1	4528
Rsr2I	CG!GWCCG	1	4528
SacI	GAGCT!C	0	
SacII	CCGC!GG	1	1914
SalI	G!TCGAC	1	1901
SapI	GCTCTCN!	1	1236
SapI	!NNNNGAAGAGC	3	1951; 4356; 4566
SaqAI	T!TAA	19	7; 1768; 1966; 2191; 2647; 2713; 2774; 2895; 2916; 2927; 2939; 2950; 2967; 3065; 3336; 5155; 5169; 5174; 5226
SatI	GC!NGC	46	689; 694; 767; 1078; 1191; 1227; 1471; 1608; 1626; 1742; 1793; 2096; 2147; 2291; 2408; 2589; 2656; 2659; 2789; 3308; 3330; 3344; 3782; 3921; 3973; 3984; 4074; 4079; 4116; 4157; 4244; 4247; 4250; 4486; 4582; 4623; 4637; 4751; 5090; 5105; 5316; 5522; 5525; 5590; 5733; 5888
Sau96I	G!GNCC	24	83; 276; 640; 775; 782; 957; 1001; 1328; 1358; 1583; 1676; 1691; 1916; 2097; 2340; 2432; 2453; 2537; 3119; 4528; 4973; 5019; 5077; 5110

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sau3AI	!GATC	30	585; 733; 991; 1015; 1204; 1339; 1519; 1618; 1726; 1922; 2311; 2461; 2487; 2669; 3849; 3853; 3872; 4183; 4261; 4342; 4351; 4429; 4805; 4821; 5180; 5192; 5270; 5278; 5289; 5364
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	1	1407
SchI	GAGTCNNNNN!	5	1102; 1644; 2236; 3064; 3496
SchI	!NNNNNGACTC	6	404; 1524; 2657; 3071; 4677; 5554
SciI	CTC!GAG	0	
ScrFI	CC!NGG	42	90; 283; 645; 657; 677; 731; 779; 786; 794; 803; 870; 882; 900; 936; 963; 1356; 1527; 1655; 1656; 1674; 1680; 1919; 1920; 2124; 2172; 2268; 2283; 2412; 2521; 3548; 3603; 3620; 4016; 4176; 4399; 4789; 4978; 5081; 5553; 5771; 5784; 5905
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNN!	7	1706; 2378; 2446; 3590; 3662; 3831; 5773
SdeAI	!NNNNNNNNNNNNNNNNNNNNNNNNCTYCTG	2	4167; 4652
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNNRTGA	1	245
SduI	GDGCH!C	21	651; 723; 943; 1013; 1153; 1361; 1434; 1444; 1919; 2004; 2031; 2064; 2641; 3203; 3958; 4051; 4125; 4315; 4377; 5087; 5620
SelI	!CGCG	17	58; 691; 1911; 2659; 2934; 3310; 3330; 3354; 3385; 4076; 4377; 4815; 4899; 4962; 5031; 5304; 5885
SetI	ASST!	91	125; 137; 178; 261; 308; 342; 447; 552; 568; 606; 624; 669; 759; 883; 967; 1006; 1114; 1162; 1195; 1228; 1290; 1309; 1333; 1375; 1399; 1465; 1472; 1495; 1502; 1528; 1557; 1579; 1612; 1633; 1645; 1711; 1717; 1737; 1963; 1990; 2086; 2136; 2157; 2308; 2443; 2461; 2512; 2580; 2584; 2599; 2623; 2702; 2723; 2732; 2744; 2793; 2960; 3075; 3087; 3130; 3167; 3217; 3240; 3364; 3512; 3607; 3800; 3913; 4041; 4120; 4131; 4203; 4274; 4318; 4578; 4724; 4768; 5099; 5130; 5189; 5232; 5375; 5396; 5495; 5632; 5647; 5666; 5678; 5722; 5768; 5819
SexAI	A!CCWGGT	1	3601
SfaAI	GCGAT!GCG	0	
SfaNI	GCATCNNNNN!	10	835; 1054; 1895; 2185; 2828; 3591; 3663; 4311; 4375; 4650
SfaNI	!NNNNNNNNNGATGC	10	357; 1301; 1769; 2338; 2377; 2506; 3970; 4225; 4441; 5833
Sfci	C!TRYAG	7	1053; 1188; 1596; 1896; 3347; 5474; 5665
SfiI	GGCCNNNN!NGGCC	1	3787
SfoI	GGC!GCC	3	661; 674; 4013
Sfr274I	C!TCGAG	0	
Sfr303I	CCGC!GG	1	1914
Sful	TT!CGAA	1	4694
SgeI	CNNGNNNNNNNNN!	240	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 650; 668; 688; 704; 721; 736; 752; 766; 782; 797; 814; 842; 860; 881; 894; 911; 926; 947; 974; 1001; 1016; 1054; 1081; 1109; 1125; 1158; 1195; 1220; 1247; 1260; 1284; 1297; 1313; 1338; 1355; 1368; 1382; 1401; 1415; 1520; 1538; 1564; 1580; 1597; 1628; 1644; 1666; 1685; 1706; 1724; 1757; 1772; 1785; 1814; 1840; 1924; 1941; 1988; 2006; 2036; 2060; 2078; 2093; 2135; 2150; 2183; 2217; 2230; 2258; 2279; 2294; 2321; 2355; 2376; 2396; 2409; 2423; 2441; 2454; 2471; 2486; 2504; 2525; 2559; 2597; 2620; 2638; 2672; 2719; 2748; 2790; 2873; 2947; 3031; 3053; 3085; 3122; 3140; 3159; 3174; 3216; 3233; 3250; 3285; 3299; 3316; 3338; 3362; 3386; 3451; 3465; 3503; 3519; 3559; 3572; 3591; 3614; 3631; 3644; 3663; 3693; 3714; 3731; 3754; 3789; 3816; 3847; 3869; 3895; 3917; 3936; 3964; 4000; 4019; 4042; 4056; 4076; 4089; 4103; 4122; 4136; 4155; 4187; 4201; 4214; 4240; 4271; 4284; 4301; 4318; 4332; 4349; 4367; 4382; 4410; 4426; 4445; 4467; 4483; 4506; 4525; 4550; 4569; 4589; 4616; 4640; 4673; 4692; 4720; 4734; 4800; 4824; 4839; 4862; 4883; 4900; 4948; 4975; 4989; 5018; 5042; 5075; 5092; 5112; 5125; 5138; 5196; 5223; 5242; 5272; 5297; 5317; 5331; 5356; 5374; 5411; 5449; 5478; 5506; 5520; 5540; 5555; 5576; 5590; 5609; 5627; 5643; 5683; 5703; 5730; 5748; 5769; 5782; 5795; 5812; 5836; 5859; 5891; 5916; 5943; 5965

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	!NNNNNNNNNNNNNCNNG	207	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 624; 642; 662; 683; 701; 726; 747; 764; 788; 816; 834; 855; 885; 907; 930; 948; 975; 1028; 1055; 1083; 1104; 1132; 1169; 1194; 1221; 1258; 1277; 1312; 1329; 1356; 1375; 1395; 1494; 1512; 1538; 1571; 1602; 1630; 1659; 1680; 1698; 1731; 1759; 1788; 1814; 1898; 1915; 1962; 1980; 2010; 2034; 2052; 2076; 2109; 2157; 2191; 2232; 2253; 2295; 2329; 2350; 2370; 2397; 2415; 2436; 2460; 2478; 2499; 2533; 2571; 2594; 2612; 2646; 2693; 2722; 2764; 2847; 2921; 3005; 3027; 3059; 3096; 3114; 3133; 3190; 3207; 3224; 3259; 3277; 3297; 3317; 3336; 3360; 3425; 3477; 3533; 3565; 3588; 3605; 3637; 3667; 3688; 3705; 3728; 3763; 3790; 3821; 3843; 3869; 3891; 3910; 3938; 3974; 3993; 4016; 4037; 4055; 4072; 4096; 4129; 4161; 4188; 4214; 4245; 4275; 4292; 4318; 4341; 4362; 4384; 4404; 4424; 4441; 4480; 4499; 4524; 4543; 4563; 4590; 4614; 4647; 4666; 4694; 4716; 4774; 4798; 4817; 4836; 4857; 4874; 4922; 4949; 4969; 4992; 5016; 5049; 5066; 5086; 5112; 5170; 5197; 5216; 5246; 5271; 5291; 5330; 5348; 5385; 5423; 5452; 5480; 5501; 5529; 5550; 5583; 5601; 5657; 5677; 5704; 5722; 5743; 5769; 5786; 5810; 5833; 5865; 5890; 5917; 5939; 5968
Sgfl	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	1914
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	6	27; 775; 807; 3159; 4946; 5739
SimI	!GACCC	6	106; 957; 1651; 4440; 5008; 5256
SinI	G!GWCC	8	640; 775; 957; 1001; 1328; 2537; 4528; 4973
SlaI	C!TCGAG	0	
SmaI	CCC!GGG	2	1656; 1920
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	6	365; 1437; 1941; 1980; 2385; 4449
SmlI	C!TYRAG	8	1215; 1632; 2511; 2894; 4403; 5285; 5562; 5824
SmoI	C!TYRAG	8	1215; 1632; 2511; 2894; 4403; 5285; 5562; 5824
SmuI	CCCGCNNNN!	14	93; 119; 286; 753; 1050; 1593; 1836; 2405; 2507; 3334; 3689; 3710; 4906; 5038
SmuI	!NNNNNNGCGGG	7	1906; 2442; 3265; 4135; 4672; 4810; 4957
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3582; 3654; 4417
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	12	18; 1891; 2648; 2762; 2826; 2904; 2930; 2941; 3588; 3660; 3752; 5170
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCCT	2	1001; 1328
SseBI	AGG!CCT	2	1267; 3833
SsiI	C!CGC	44	58; 86; 98; 112; 279; 507; 589; 746; 866; 1043; 1154; 1586; 1739; 1742; 1829; 1911; 2260; 2398; 2500; 2659; 3327; 3330; 3344; 3434; 3682; 3694; 3703; 3715; 3725; 3736; 3782; 3921; 3984; 4486; 4531; 4597; 4623; 4748; 4751; 4899; 5031; 5338; 5482; 5978
SsiI	G!CGG	30	370; 403; 528; 693; 766; 1913; 2095; 2407; 2449; 2655; 3272; 3299; 3387; 3497; 4078; 4142; 4243; 4246; 4526; 4581; 4679; 4817; 4964; 5104; 5347; 5592; 5713; 5732; 5859; 5887
SspI	AAT!ATT	2	2920; 3473
SspDI	G!GCGCC	3	659; 672; 4011
SspD5I	GGTGANNNNNNN!	5	376; 1788; 2333; 5083; 5199
SspD5I	!NNNNNNNNNTCACC	5	598; 1435; 2221; 3128; 4189
SstI	GAGCT!C	0	
SstII	CCGC!GG	1	1914
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	2266
SstE37I	!NNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	28	92; 118; 285; 683; 737; 752; 1049; 1076; 1592; 1661; 1835; 1925; 2188; 2404; 2506; 2527; 3211; 3333; 3688; 3709; 4022; 4425; 4564; 4635; 4905; 5037; 5267; 5705
Sth132I	!NNNNNNNNCGGG	27	15; 407; 470; 770; 785; 927; 1347; 1607; 1647; 1905; 2237; 2441; 3212; 3264; 3365; 4092; 4134; 4167; 4671; 4780; 4809; 4956; 5060; 5091; 5544; 5588; 5796

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Sth302II	CC!GG	31	639; 678; 682; 732; 779; 794; 803; 915; 936; 1356; 1656; 1833; 1920; 1930; 2522; 3231; 3918; 3995; 4017; 4045; 4176; 4266; 4333; 4514; 4789; 4797; 4889; 5363; 5553; 5579; 5726
StrI	C!TCGAG	0	
StsI	GGATGNNNNNNNNNN!	5	1855; 3880; 4337; 4362; 4816
StsI	!NNNNNNNNNNNNNNCATCC	9	812; 1127; 1337; 1796; 2017; 2105; 2162; 2317; 3684
StuI	AGG!CCT	2	1267; 3833
StyI	C!CWWGG	9	360; 1145; 1513; 1783; 1939; 3741; 3834; 4444; 4849
StyD4I	!CCNGG	42	88; 281; 643; 655; 675; 729; 777; 784; 792; 801; 868; 880; 898; 934; 961; 1354; 1525; 1653; 1654; 1672; 1678; 1917; 1918; 2122; 2170; 2266; 2281; 2410; 2519; 3546; 3601; 3618; 4014; 4174; 4397; 4787; 4976; 5079; 5551; 5769; 5782; 5903
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	20	76; 198; 269; 543; 581; 1031; 1301; 1439; 1453; 1505; 1907; 2006; 3103; 4392; 4508; 4616; 4939; 5430; 5900; 5971
TaiI	ACGT!	17	125; 137; 178; 261; 342; 447; 1502; 2308; 2584; 3075; 3087; 3130; 3240; 4131; 4318; 5099; 5232
TaqI	T!CGA	19	997; 1207; 1522; 1889; 1902; 2089; 2116; 2584; 3161; 3852; 4125; 4281; 4305; 4341; 4503; 4694; 4739; 4994; 5832
TaqII	GACCGANNNNNNNNNN!	4	921; 3032; 4049; 4717
TaqII	!NNNNNNNNNTCGGTC	1	4961
TaqII	CACCCANNNNNNNNNN!	2	2079; 2184
TaqII	!NNNNNNNNNTGGGTG	3	172; 3916; 4508
TasI	!AATT	12	18; 1891; 2648; 2762; 2826; 2904; 2930; 2941; 3588; 3660; 3752; 5170
TatI	W!GTACW	6	217; 297; 330; 381; 1405; 1990
TauI	GCSG!C	22	696; 769; 1744; 2098; 2410; 2658; 2661; 3332; 3346; 3784; 3923; 3986; 4081; 4246; 4249; 4488; 4584; 4625; 4753; 5107; 5735; 5890
TfiI	G!AWTC	7	2077; 2554; 4497; 4631; 4741; 4778; 5956
TliI	C!TCGAG	0	
TruII	T!TAA	19	7; 1768; 1966; 2191; 2647; 2713; 2774; 2895; 2916; 2927; 2939; 2950; 2967; 3065; 3336; 5155; 5169; 5174; 5226
Tru9I	T!TAA	19	7; 1768; 1966; 2191; 2647; 2713; 2774; 2895; 2916; 2927; 2939; 2950; 2967; 3065; 3336; 5155; 5169; 5174; 5226
TscAI	CASTGNN!	6	1444; 2858; 4141; 5251; 5522; 5535
TseI	G!CWGC	24	688; 1077; 1190; 1226; 1470; 1607; 1625; 1792; 2146; 2290; 2588; 2788; 3307; 3972; 4073; 4115; 4156; 4249; 4636; 5089; 5315; 5521; 5524; 5589
TsoI	TARCCANNNNNNNNNN!	2	2984; 3331
TsoI	!NNNNNNNNNTGGYTA	3	2115; 2789; 4541
Tsp45I	!GTSAC	4	2228; 3301; 4132; 4438
Tsp509I	!AATT	12	18; 1891; 2648; 2762; 2826; 2904; 2930; 2941; 3588; 3660; 3752; 5170
TspDTI	ATGAANNNNNNNNNN!	5	1251; 1998; 2770; 4071; 4775
TspDTI	!NNNNNNNNNTTCAT	7	26; 1223; 2126; 2147; 4489; 4945; 5152
TspEI	!AATT	12	18; 1891; 2648; 2762; 2826; 2904; 2930; 2941; 3588; 3660; 3752; 5170
TspGWI	ACGGANNNNNNNNNN!	1	4887
TspGWI	!NNNNNNNNNTCCGT	1	728
TspMI	C!CCGGG	2	1654; 1918
TspRI	CASTGNN!	6	1444; 2858; 4141; 5251; 5522; 5535
TstI	CACNNNNNTCCNNNNNNNNNN!	0	
TstI	!NNNNNNNGGANNNNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	4130
Tth111II	CAARCANNNNNNNNN!	1	5339
Tth111III	!NNNNNNNNNTGYTTG	3	4447; 5307; 5346
UnbI	!GGNCC	24	82; 275; 639; 774; 781; 956; 1000; 1327; 1357; 1582; 1675; 1690; 1915; 2096; 2339; 2431; 2452; 2536; 3118; 4527; 4972; 5018; 5076; 5109
Van91I	CCANNNN!NTGG	3	1130; 1514; 2546
Vha464I	C!TTAAG	1	2894
VneI	G!TGCAC	2	2027; 5616
VpaK11AI	!GWCC	8	639; 774; 956; 1000; 1327; 2536; 4527; 4972
VpaK11BI	G!GWCC	8	640; 775; 957; 1001; 1328; 2537; 4528; 4973

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	1	1572
XapI	R!AATTY	4	1891; 2826; 2930; 2941
XbaI	T!CTAGA	1	2666
XceI	RCATG!Y	5	1979; 3582; 3654; 4417; 5934
XcmI	CCANNNNN!NNNNTGG	0	
XhoI	C!TCGAG	0	
XhoII	R!GATCY	13	585; 733; 1015; 1618; 1922; 2487; 4183; 4429; 4821; 5180; 5192; 5278; 5289
XmaI	C!CCGGG	2	1654; 1918
XmaJI	C!CTAGG	2	3834; 4849
XmiI	GT!MKAC	2	1902; 2527
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	10	592; 1398; 2626; 2667; 2861; 3279; 3835; 4850; 5184; 5437
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	1	1407
Zsp2I	ATGCA!T	3	3584; 3656; 5987