

pmKate2-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	2355; 2560
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2643; 3599; 5388
AatI	AGG!CCT	2	1942; 3393
AatII	GACGT!C	5	125; 178; 261; 447; 1135
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	2	640; 2093
AccII	CG!CG	16	60; 1038; 2221; 2496; 2872; 2892; 2916; 2947; 3638; 3939; 4377; 4461; 4524; 4593; 4866; 5447
AccIII	T!CCGGA	1	1202
Acc16I	TGC!GCA	1	3674
Acc36I	ACCTGCNNNN!	2	3840; 4290
Acc36I	!NNNNNNNNGCAGGT	1	3459
Acc65I	G!GTACC	0	
AccB1I	G!GYRCC	6	465; 1567; 1627; 2725; 3571; 3606
AccB7I	CCANNNN!NTGG	2	792; 1275
AccBSI	CCG!CTC	2	2996; 4185
AccBSI	GAG!CGG	3	2215; 2832; 4239
AceIII	CAGCTCNNNNNNN!	1	2528
AceIII	!NNNNNNNNNNGAGCTG	2	552; 1513
AciI	C!CGC	35	58; 86; 98; 112; 279; 507; 589; 1826; 1964; 2066; 2219; 2887; 2890; 2904; 2994; 3242; 3254; 3263; 3275; 3285; 3296; 3342; 3481; 3544; 4046; 4091; 4157; 4183; 4308; 4311; 4459; 4591; 4898; 5042; 5538
AciI	G!CGG	30	370; 403; 528; 1038; 1232; 1651; 1661; 1973; 2015; 2215; 2832; 2859; 2947; 3057; 3638; 3702; 3803; 3806; 4086; 4141; 4239; 4377; 4524; 4664; 4907; 5152; 5273; 5292; 5419; 5447
AclI	AA!CGTT	0	
AclWI	GGATCNNNN!	8	1505; 3440; 3751; 3997; 4389; 4748; 4846; 4932
AclWI	!NNNNNGATCC	7	580; 1492; 2048; 3816; 4360; 4747; 4844
AcoI	Y!GGCCR	9	653; 1167; 1233; 2171; 2216; 3478; 3652; 4043; 4070
AcsI	R!AATY	7	629; 949; 988; 1253; 2386; 2490; 2501
AcuI	CTGAAGNNNNNNNNNNNNNNN!	3	2023; 3718; 4150
AcuI	!NNNNNNNNNNNNNCTTCAG	2	1314; 4948
AcvI	CAC!GTG	0	
AcyI	GR!CGYC	9	122; 175; 258; 444; 1132; 2090; 3572; 4274; 4353
AdeI	CACNNN!GTG	2	2163; 2688
AfaI	GT!AC	12	219; 244; 299; 332; 383; 540; 667; 1492; 1558; 1708; 1960; 3878
AfeI	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	25	49; 792; 1032; 1072; 1169; 1275; 1624; 1737; 1903; 1969; 2584; 2910; 3302; 3553; 4097; 4378; 4410; 4542; 4577; 4627; 4659; 5012; 5291; 5457; 5475
AfIII	C!TTAAG	1	2454
AfIII	A!CRYGT	1	5490
AgeI	A!CCGGT	1	1503
AgsI	TTS!AA	13	876; 897; 1089; 1261; 1287; 1462; 1590; 2040; 2983; 3027; 3037; 3450; 5026
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	22	88; 281; 839; 1046; 1071; 1361; 1481; 1493; 1688; 1736; 1832; 1847; 1976; 3106; 3161; 3178; 3957; 4536; 4639; 5329; 5342; 5463
AjuI	GAANNNNNNNTTGGNNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AjuI	!NNNNNNCCAANNNNNNTTC	0	
AjuI	CCAANNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNNGAANNNNNNTTGG	0	
AleI	CACNN!NNGTG	2	676; 1516
AlfI	GCANNNNNNTGCNNNNNNNNNNNN!	4	659; 798; 3146; 3218
AlfI	!NNNNNNNNNGCANNNNNNNTGC	4	625; 764; 3112; 3184
AloI	GAACNNNNNTCCNNNNNNNNNNNN!	2	1914; 2654
AloI	!NNNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNNNN!	0	
AloI	!NNNNNNNGAACNNNNNTCC	2	1882; 2622
AluI	AG!CT	23	566; 618; 624; 762; 892; 1275; 1290; 1353; 1527; 1554; 1700; 2007; 2351; 2518; 2775; 3070; 3358; 3678; 4136; 4933; 5190; 5236; 5326
AluBI	AG!CT	23	566; 618; 624; 762; 892; 1275; 1290; 1353; 1527; 1554; 1700; 2007; 2351; 2518; 2775; 3070; 3358; 3678; 4136; 4933; 5190; 5236; 5326
AlwI	GGATCNNNN!	8	1505; 3440; 3751; 3997; 4389; 4748; 4846; 4932
AlwI	!NNNNNGATCC	7	580; 1492; 2048; 3816; 4360; 4747; 4844
Alw21I	GWGCW!C	7	620; 821; 1355; 1597; 3685; 3875; 5180
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	7	1234; 1945; 2134; 2996; 3414; 4433; 4561
Alw44I	G!TGCAC	3	817; 1593; 5176
AlwNI	CAGNN!CTG	3	2180; 4673; 5081
Ama87I	C!YCGRG	2	613; 1771
Aor13HI	T!CCGGA	1	1202
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	0	
ApaBI	GCANNNNN!TGC	3	3140; 3212; 4674
ApaLI	G!TGCAC	3	817; 1593; 5176
ApeKI	G!CWGC	19	775; 882; 889; 1712; 1856; 2154; 2348; 2867; 3532; 3633; 3675; 3716; 3809; 4196; 4649; 4875; 5081; 5084; 5149
ApoI	R!AATTY	7	629; 949; 988; 1253; 2386; 2490; 2501
ApyPI	ATCGACNNNNNNNNNNNNNNNNNNNN!	1	4087
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	3881; 4534; 5372
AquII	GCCGNACNNNNNNNNNNNNNNNNNNNN!	1	3971
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	1	1688
AquIII	GAGGAGNNNNNNNNNNNNNNNNNNNN!	1	3400
AquIII	!NNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNNNN!	1	1451
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	3	786; 1749; 4142
ArsI	GACNNNNNTTYGNNNNNNNNNNNN!	0	
ArsI	!NNNNNNCRAANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNNNTTYG	0	
AscI	GG!CGGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	25	586; 610; 1078; 1083; 1498; 1878; 2028; 2054; 2230; 3410; 3414; 3433; 3744; 3822; 3903; 3912; 3990; 4366; 4382; 4741; 4753; 4831; 4839; 4850; 4925
AsiGI	A!CCGGT	1	1503
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3690
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	0	
AspA2I	C!CTAGG	2	3394; 4409
AspEI	GACNN!NNGTC	0	
AspLEI	GCG!C	23	597; 1038; 1059; 2838; 2846; 2872; 2894; 2903; 2916; 2947; 3566; 3574; 3638; 3675; 3941; 4201; 4377; 4463; 4866; 4975; 5149; 5249; 5316
AspS9I	G!GNCC	15	83; 276; 1044; 1144; 1185; 1663; 1906; 1998; 2019; 2679; 4088; 4533; 4579; 4637; 4670
AssI	AGT!ACT	0	
AsuII	TT!CGAA	2	627; 4254
AsuC2I	CC!SGG	6	809; 2087; 3576; 3736; 4349; 5113
AsuHPI	GGTGANNNNNNN!	6	376; 1087; 1530; 1899; 4643; 4759
AsuHPI	!NNNNNNNTCACC	3	1788; 2689; 3750

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AsuNI	G!CTAGC	1	591
AvaI	C!YCGRG	2	613; 1771
AvaII	G!GWCC	2	4088; 4533
AviII	TGC!GCA	1	3674
AvrII	C!CTAGG	2	3394; 4409
AxyI	CC!TNAGG	3	1445; 3052; 4684
BaeI	ACNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGC!C	8	821; 1570; 1597; 1630; 2207; 3518; 3611; 5180
BalI	TGG!CCA	2	2173; 3654
BamHI	G!GATCC	1	1497
BanI	G!GYRCC	6	465; 1567; 1627; 2725; 3571; 3606
BanII	GRGCY!C	5	620; 1355; 2763; 3937; 4647
BanIII	AT!CGAT	1	3412
BarI	GAAGNNNNNTACNNNNNNNNNN!	1	2064
BarI	!NNNNNNNGTANNNNNNCTTC	0	
BarI	GTANNNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	1	2032
BasI	CCANNN!NTGG	2	792; 1275
BauI	C!ACGAG	3	2158; 4290; 5317
BauI	C!TCGTG	2	2008; 4164
BbeI	GGCG!C	1	3575
Bbr7I	GAAGACNNNNNN!	4	1489; 1819; 2052; 2120
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	0	
BbsI	GAAGACNN!	4	1484; 1814; 2047; 2115
BbsI	!NNNNNGTCTTC	0	
BbuI	GCATG!C	3	3142; 3214; 3977
BbvI	GCAGCNNNNNNNN!	10	787; 901; 1724; 2166; 2360; 3645; 3687; 4208; 4661; 5161
BbvI	!NNNNNNNNNNNGCTGC	8	869; 1843; 2854; 3519; 3703; 3796; 4862; 5068
Bbv12I	GWGCW!C	7	620; 821; 1355; 1597; 3685; 3875; 5180
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	6	1224; 1905; 2702; 3266; 3792; 4294
BccI	!NNNNNGATGG	6	897; 1003; 1294; 2670; 3450; 3878
BceAI	ACGGCNNNNNNNNNN!	6	1725; 1869; 1920; 1986; 3998; 4485
BceAI	!NNNNNNNNNNNNNGCCGT	4	640; 2713; 3531; 4990
Bcefl	ACGGCNNNNNNNNNN!	6	1725; 1869; 1920; 1986; 3998; 4485
Bcefl	!NNNNNNNNNNNNNGCCGT	4	641; 2714; 3532; 4991
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNNNTCG	0	
BcgI	GCANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNCGANNNNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	3001; 3791; 5292
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	1	1077
BcnI	CC!SGG	6	809; 2087; 3576; 3736; 4349; 5113
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	3	989; 1484; 5425
BdaI	!NNNNNNNNNNTGANNNNNNNTCA	3	955; 1450; 5391
BfaI	C!TAG	10	592; 850; 2192; 2227; 2421; 2839; 3395; 4410; 4744; 4997
BfiI	ACTGGGNNNNNN!	2	2209; 3521
BfiI	!NNNNCCCAGT	2	289; 3273
BfmI	C!TRYAG	5	634; 926; 2907; 5034; 5225
BfoI	RGCG!Y	6	598; 1060; 2839; 2847; 3575; 5250
BfrI	C!TTAAG	1	2454
BfuI	GTATCCNNNNNN!	3	3001; 3791; 5292
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	2	3840; 4290
BfuAI	!NNNNNNNNNGCAGGT	1	3459
BfuCI	!GATC	25	585; 609; 1077; 1082; 1497; 1877; 2027; 2053; 2229; 3409; 3413; 3432; 3743; 3821; 3902; 3911; 3989; 4365; 4381; 4740; 4752; 4830; 4838; 4849; 4924

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BglI	GCCNNNN!NGGC	7	90; 212; 283; 652; 1982; 1996; 3347
BglII	A!GATCT	2	609; 1082
BisI	GC!NGC	39	776; 883; 890; 1039; 1233; 1662; 1713; 1857; 1974; 2155; 2216; 2219; 2349; 2868; 2890; 2904; 3342; 3481; 3533; 3544; 3634; 3639; 3676; 3717; 3804; 3810; 4046; 4142; 4183; 4197; 4311; 4650; 4665; 4876; 5082; 5085; 5150; 5293; 5448
BlnI	C!CTAGG	2	3394; 4409
BlpI	GC!TNAGC	1	1174
BlsI	GCN!GC	39	777; 884; 891; 1040; 1234; 1663; 1714; 1858; 1975; 2156; 2217; 2220; 2350; 2869; 2891; 2905; 3343; 3482; 3534; 3545; 3635; 3640; 3677; 3718; 3805; 3811; 4047; 4143; 4184; 4198; 4312; 4651; 4666; 4877; 5083; 5086; 5151; 5294; 5449
BmcAI	AGT!ACT	0	
Bme18I	G!GWCC	2	4088; 4533
Bme1390I	CC!NGG	28	90; 283; 809; 841; 1048; 1073; 1363; 1483; 1495; 1690; 1738; 1834; 1849; 1978; 2087; 3108; 3163; 3180; 3576; 3736; 3959; 4349; 4538; 4641; 5113; 5331; 5344; 5465
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	2	613; 1771
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	15	84; 277; 1045; 1145; 1186; 1664; 1907; 1999; 2020; 2680; 4089; 4534; 4580; 4638; 4671
BmiI	GGN!NCC	19	467; 1187; 1499; 1569; 1629; 2020; 2727; 2748; 2760; 2951; 3112; 3184; 3573; 3608; 4456; 4535; 4580; 5423; 5462
BmrI	ACTGGGNNNNN!	2	2209; 3521
BmrI	!NNNNCCCAGT	2	289; 3273
BmrFI	CC!NGG	28	90; 283; 809; 841; 1048; 1073; 1363; 1483; 1495; 1690; 1738; 1834; 1849; 1978; 2087; 3108; 3163; 3180; 3576; 3736; 3959; 4349; 4538; 4641; 5113; 5331; 5344; 5465
BmsI	GCATCNNNNN!	9	1409; 1476; 1751; 2388; 3151; 3223; 3871; 3935; 4210
BmsI	!NNNNNNNNNGATGC	8	357; 1236; 1904; 2072; 3530; 3785; 4001; 5393
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	2	2209; 3521
BmuI	!NNNNCCCAGT	2	289; 3273
BoxI	GACNN!NNGTC	1	2146
BpiI	GAAGACNN!	4	1484; 1814; 2047; 2115
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNN!	2	3361; 4260
BpI	!NNNNNNNNNGAGNNNNNCTC	2	3329; 4228
BpmI	CTGGAGNNNNNNNNNNNNNNN!	2	1327; 4412
BpmI	!NNNNNNNNNNNNNNNCTCCAG	2	1831; 4355
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 4254
Bpu1102I	GC!TNAGC	1	1174
BpuAI	GAAGACNN!	4	1484; 1814; 2047; 2115
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNN!	3	843; 4866; 5405
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	4	604; 2062; 3948; 5107
BpuMI	CC!SGG	6	809; 2087; 3576; 3736; 4349; 5113
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	3	1945; 2134; 4561
Bsa29I	AT!CGAT	1	3412
BsaAI	YAC!GTR	3	340; 2688; 3876
BsaBI	GATNN!NNATC	2	2234; 3431
BsaHI	GR!CGYC	9	122; 175; 258; 444; 1132; 2090; 3572; 4274; 4353
BsaJI	C!CNNGG	24	360; 650; 807; 1071; 1514; 1601; 1736; 1737; 1772; 1832; 3106; 3178; 3301; 3336; 3345; 3394; 3735; 4004; 4409; 4536; 4537; 4639; 4640; 5330
BsaMI	GAATGCN!	1	2323
BsaMI	G!CATTC	2	1196; 2416
BsaWI	W!CCGGW	7	600; 1202; 1503; 3603; 4447; 5137; 5284
BsaXI	ACNNNNNCTCCNNNNNNNNN!	1	2652
BsaXI	!NNNNNNNNGGAGNNNNNNGT	0	

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BsaXI	GGAGNNNNNGTNNNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2622
BsbI	CAACACNNNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	3	888; 2573; 4480
Bsc4I	CCNNNNN!NNGG	25	49; 792; 1032; 1072; 1169; 1275; 1624; 1737; 1903; 1969; 2584; 2910; 3302; 3553; 4097; 4378; 4410; 4542; 4577; 4627; 4659; 5012; 5291; 5457; 5475
BscAI	GCATCNNNN!	10	1408; 1417; 1475; 1750; 2387; 3150; 3222; 3870; 3934; 4209
BscAI	!NNNNNNGATGC	8	360; 1239; 1907; 2075; 3533; 3788; 4004; 5396
BseI	ACTGGN!	5	2117; 2204; 3516; 3717; 4963
BseI	C!CAGT	7	295; 683; 786; 2601; 3279; 5075; 5088
Bse8I	GATNN!NNATC	2	2234; 3431
Bse21I	CC!TNAGG	3	1445; 3052; 4684
Bse118I	R!CCGGY	6	1169; 1503; 2789; 3891; 4072; 4355
BseAI	T!CCGGA	1	1202
BseBI	CC!WGG	22	90; 283; 841; 1048; 1073; 1363; 1483; 1495; 1690; 1738; 1834; 1849; 1978; 3108; 3163; 3180; 3959; 4538; 4641; 5331; 5344; 5465
BseCI	AT!CGAT	1	3412
BseDI	C!CNNGG	24	360; 650; 807; 1071; 1514; 1601; 1736; 1737; 1772; 1832; 3106; 3178; 3301; 3336; 3345; 3394; 3735; 4004; 4409; 4536; 4537; 4639; 4640; 5330
Bse3DI	GCAATGNN!	2	1185; 3805
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	1305; 3432; 3889; 3914; 4368
BseGI	!CATCC	7	863; 1409; 1597; 1685; 1742; 1897; 3258
BseJI	GATNN!NNATC	2	2234; 3431
BseLI	CCNNNNN!NNGG	25	49; 792; 1032; 1072; 1169; 1275; 1624; 1737; 1903; 1969; 2584; 2910; 3302; 3553; 4097; 4378; 4410; 4542; 4577; 4627; 4659; 5012; 5291; 5457; 5475
BseMI	GCAATGNN!	2	1185; 3805
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	3	620; 1409; 4698
BseMII	!NNNNNNNNNCTGAG	8	685; 1165; 1436; 3043; 3345; 4226; 4798; 5207
BseNI	ACTGGN!	5	2117; 2204; 3516; 3717; 4963
BseNI	C!CAGT	7	295; 683; 786; 2601; 3279; 5075; 5088
BsePI	G!CGCGC	0	
BseRI	GAGGAGNNNNNNNNNN!	1	3390
BseRI	!NNNNNNNNNCTCCTC	0	
BseSI	GKGC!C	8	821; 1570; 1597; 1630; 2207; 3518; 3611; 5180
BseXI	GCAGCNNNNNNNN!	10	787; 901; 1724; 2166; 2360; 3645; 3687; 4208; 4661; 5161
BseXI	!NNNNNNNNNNNGCTGC	8	869; 1843; 2854; 3519; 3703; 3796; 4862; 5068
BseX3I	C!GGCCG	2	2216; 3478
BseYI	C!CCAGC	3	3115; 3187; 5186
BseYI	G!CTGGG	2	1934; 4076
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNNNCTGCAC	1	718
Bsh1236I	CG!CG	16	60; 1038; 2221; 2496; 2872; 2892; 2916; 2947; 3638; 3939; 4377; 4461; 4524; 4593; 4866; 5447
Bsh1285I	CGRY!CG	5	1508; 1655; 2219; 3481; 5156
BshFI	GG!CC	35	84; 277; 655; 844; 1046; 1145; 1169; 1186; 1235; 1664; 1907; 1942; 1976; 1999; 2021; 2131; 2173; 2218; 2538; 2680; 3335; 3341; 3350; 3393; 3480; 3654; 4045; 4072; 4581; 4638; 4671; 5016; 5450; 5468; 5479
BshNI	G!GYRCC	6	465; 1567; 1627; 2725; 3571; 3606
BshTI	A!CCGGT	1	1503
BshVI	AT!CGAT	1	3412
BsiEI	CGRY!CG	5	1508; 1655; 2219; 3481; 5156
BsiHKAI	GWGCW!C	7	620; 821; 1355; 1597; 3685; 3875; 5180
BsiHKCI	C!YCGRG	2	613; 1771
BsiSI	C!CGG	22	601; 809; 1170; 1203; 1504; 2087; 2790; 3477; 3554; 3576; 3604; 3735; 3825; 3892; 4073; 4348; 4356; 4448; 4922; 5112; 5138; 5285
BsiWI	C!GTACG	0	
BslI	CCNNNNN!NNGG	25	49; 792; 1032; 1072; 1169; 1275; 1624; 1737; 1903; 1969; 2584; 2910; 3302; 3553; 4097; 4378; 4410; 4542; 4577; 4627; 4659; 5012; 5291; 5457; 5475

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BsIF1	GGGACNNNNNNNNNN!	6	175; 326; 494; 3723; 4255; 4364
BsIF1	!NNNNNNNNNNNNNGTCCC	5	1119; 3088; 3160; 3224; 4519
BsmI	GAATGCN!	1	2323
BsmI	G!CATTC	2	1196; 2416
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	7	1234; 1945; 2134; 2996; 3414; 4433; 4561
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3723; 4255; 4364
BsmFI	!NNNNNNNNNNNNNGTCCC	5	1119; 3088; 3160; 3224; 4519
BsnI	GG!CC	35	84; 277; 655; 844; 1046; 1145; 1169; 1186; 1235; 1664; 1907; 1942; 1976; 1999; 2021; 2131; 2173; 2218; 2538; 2680; 3335; 3341; 3350; 3393; 3480; 3654; 4045; 4072; 4581; 4638; 4671; 5016; 5450; 5468; 5479
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	3	1945; 2134; 4561
BsoBI	C!YCGRG	2	613; 1771
Bsp13I	T!CCGGA	1	1202
Bsp19I	C!CATGG	5	360; 650; 1514; 3301; 4004
Bsp24I	GACNNNNNTGGNNNNNNNNNN!	3	289; 1316; 4375
Bsp24I	!NNNNNNCCANNNNNGTC	2	4796; 4974
Bsp24I	CCANNNNNGTCNNNNNNNNNN!	2	4828; 5006
Bsp24I	!NNNNNNNGACNNNNNTGG	3	257; 1284; 4343
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 4254
Bsp120I	G!GGCCC	0	
Bsp143I	!GATC	25	585; 609; 1077; 1082; 1497; 1877; 2027; 2053; 2229; 3409; 3413; 3432; 3743; 3821; 3902; 3911; 3989; 4365; 4381; 4740; 4752; 4830; 4838; 4849; 4924
Bsp1286I	GDGCH!C	15	620; 821; 1355; 1570; 1597; 1630; 2207; 2763; 3518; 3611; 3685; 3875; 3937; 4647; 5180
Bsp1407I	T!GTACA	1	1556
Bsp1720I	GC!TNAGC	1	1174
BspACI	C!CGC	35	58; 86; 98; 112; 279; 507; 589; 1826; 1964; 2066; 2219; 2887; 2890; 2904; 2994; 3242; 3254; 3263; 3275; 3285; 3296; 3342; 3481; 3544; 4046; 4091; 4157; 4183; 4308; 4311; 4459; 4591; 4898; 5042; 5538
BspACI	G!CGG	30	370; 403; 528; 1038; 1232; 1651; 1661; 1973; 2015; 2215; 2832; 2859; 2947; 3057; 3638; 3702; 3803; 3806; 4086; 4141; 4239; 4377; 4524; 4664; 4907; 5152; 5273; 5292; 5419; 5447
BspCNI	CTCAGNNNNNNNN!	3	619; 1408; 4697
BspCNI	!NNNNNNCTGAG	8	686; 1166; 1437; 3044; 3346; 4227; 4799; 5208
BspDI	AT!CGAT	1	3412
BspD6I	GACTCNNNN!	7	418; 612; 735; 2231; 2645; 4251; 5128
BspD6I	!NNNNNGAGTC	4	689; 1786; 2608; 3040
BspEI	T!CCGGA	1	1202
BspFNI	CG!CG	16	60; 1038; 2221; 2496; 2872; 2892; 2916; 2947; 3638; 3939; 4377; 4461; 4524; 4593; 4866; 5447
BspHI	T!CATGA	2	2998; 4770
BspLI	GGN!NCC	19	467; 1187; 1499; 1569; 1629; 2020; 2727; 2748; 2760; 2951; 3112; 3184; 3573; 3608; 4456; 4535; 4580; 5423; 5462
BspMI	ACCTGCNNNN!	2	3840; 4290
BspMI	!NNNNNNNGCAGGT	1	3459
BspOI	GCTAG!C	1	595
BspPI	GGATCNNNN!	8	1505; 3440; 3751; 3997; 4389; 4748; 4846; 4932
BspPI	!NNNNNGATCC	7	580; 1492; 2048; 3816; 4360; 4747; 4844
BspQI	GCTCTCN!	1	808
BspQI	!NNNNGAAGAGC	3	1457; 3916; 4126
BspTI	C!TTAAG	1	2454
BspT104I	TT!CGAA	2	627; 4254
BspT107I	G!GYRCC	6	465; 1567; 1627; 2725; 3571; 3606
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	3	1945; 2134; 4561
BsrI	ACTGGN!	5	2117; 2204; 3516; 3717; 4963
BsrI	C!CAGT	7	295; 683; 786; 2601; 3279; 5075; 5088
BsrBI	CCG!CTC	2	2996; 4185

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BsrBI	GAG!CGG	3	2215; 2832; 4239
BsrDI	GCAATGNN!	2	1185; 3805
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	6	1169; 1503; 2789; 3891; 4072; 4355
BsrGI	T!GTACA	1	1556
BsrSI	ACTGGN!	5	2117; 2204; 3516; 3717; 4963
BsrSI	C!CAGT	7	295; 683; 786; 2601; 3279; 5075; 5088
BssAI	R!CCGGY	6	1169; 1503; 2789; 3891; 4072; 4355
BssECl	C!CNNGG	24	360; 650; 807; 1071; 1514; 1601; 1736; 1737; 1772; 1832; 3106; 3178; 3301; 3336; 3345; 3394; 3735; 4004; 4409; 4536; 4537; 4639; 4640; 5330
BssHII	G!CGCGC	0	
BssKI	!CCNGG	28	88; 281; 807; 839; 1046; 1071; 1361; 1481; 1493; 1688; 1736; 1832; 1847; 1976; 2085; 3106; 3161; 3178; 3574; 3734; 3957; 4347; 4536; 4639; 5111; 5329; 5342; 5463
BssMI	!GATC	25	585; 609; 1077; 1082; 1497; 1877; 2027; 2053; 2229; 3409; 3413; 3432; 3743; 3821; 3902; 3911; 3989; 4365; 4381; 4740; 4752; 4830; 4838; 4849; 4924
BssNI	GR!CGYC	9	122; 175; 258; 444; 1132; 2090; 3572; 4274; 4353
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	3	2158; 4290; 5317
BssSI	C!TCGTG	2	2008; 4164
BssT1I	C!CWWGG	7	360; 650; 1514; 3301; 3394; 4004; 4409
Bst6I	CTCTCN!	1	808
Bst6I	!NNNNGAAGAG	4	1457; 3039; 3916; 4126
Bst98I	C!TTAAG	1	2454
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 1132; 2090; 3572; 4274; 4353
BstAFI	C!TTAAG	1	2454
BstAPI	GCANNNN!NTGC	3	3139; 3211; 4673
BstAUI	T!GTACA	1	1556
BstBI	TT!CGAA	2	627; 4254
Bst2BI	C!ACGAG	3	2158; 4290; 5317
Bst2BI	C!TCGTG	2	2008; 4164
BstBAI	YAC!GTR	3	340; 2688; 3876
Bst4CI	ACN!GT	15	76; 198; 269; 543; 581; 1296; 1572; 2663; 3952; 4068; 4176; 4499; 4990; 5460; 5531
BstC8I	GCN!NGC	34	86; 279; 593; 713; 887; 1034; 1171; 1525; 1615; 1819; 2791; 2834; 2848; 3121; 3140; 3193; 3212; 3466; 3652; 3871; 3937; 3943; 3971; 3975; 4020; 4074; 4357; 4544; 4591; 4647; 4669; 4880; 5440; 5477
BstDEI	C!TNAG	12	606; 694; 1174; 1395; 1445; 2069; 3052; 3354; 4235; 4684; 4807; 5216
BstDSI	C!CRYGG	5	360; 650; 1514; 3301; 4004
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	1	1070
BstF5I	GGATGNN!	5	1305; 3432; 3889; 3914; 4368
BstF5I	!CATCC	7	863; 1409; 1597; 1685; 1742; 1897; 3258
BstFNI	CG!CG	16	60; 1038; 2221; 2496; 2872; 2892; 2916; 2947; 3638; 3939; 4377; 4461; 4524; 4593; 4866; 5447
BstH2I	RGCGC!Y	6	598; 1060; 2839; 2847; 3575; 5250
BstHHI	GCG!C	23	597; 1038; 1059; 2838; 2846; 2872; 2894; 2903; 2916; 2947; 3566; 3574; 3638; 3675; 3941; 4201; 4377; 4463; 4866; 4975; 5149; 5249; 5316
BstKTI	GAT!C	25	588; 612; 1080; 1085; 1500; 1880; 2030; 2056; 2232; 3412; 3416; 3435; 3746; 3824; 3905; 3914; 3992; 4368; 4384; 4743; 4755; 4833; 4841; 4852; 4927
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNGAGAC	7	1234; 1945; 2134; 2996; 3414; 4433; 4561
BstMBI	!GATC	25	585; 609; 1077; 1082; 1497; 1877; 2027; 2053; 2229; 3409; 3413; 3432; 3743; 3821; 3902; 3911; 3989; 4365; 4381; 4740; 4752; 4830; 4838; 4849; 4924
BstMCI	CGRY!CG	5	1508; 1655; 2219; 3481; 5156
BstMWI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 652; 1038; 1175; 1406; 1551; 1982; 1996; 2799; 2829; 2856; 2898; 3139; 3211; 3262; 3341; 3563; 3647; 3670; 3809; 3932; 4015; 4282; 4469; 4673; 4872; 5444

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; 1690; 1738; 1834; 1849; 1978; 3108; 3163; 3180; 3959; 4538; 4641; 5331; 5344; 5465
BstNSI	RCATG!Y	7	801; 1158; 1545; 3142; 3214; 3977; 5494
BstOI	CC!WGG	22	90; 283; 841; 1048; 1073; 1363; 1483; 1495; 1690; 1738; 1834; 1849; 1978; 3108; 3163; 3180; 3959; 4538; 4641; 5331; 5344; 5465
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	1	2146
BstSCI	!CCNGG	28	88; 281; 807; 839; 1046; 1071; 1361; 1481; 1493; 1688; 1736; 1832; 1847; 1976; 2085; 3106; 3161; 3178; 3574; 3734; 3957; 4347; 4536; 4639; 5111; 5329; 5342; 5463
BstSFI	C!TRYAG	5	634; 926; 2907; 5034; 5225
BstSLI	GKGCMI!C	8	821; 1570; 1597; 1630; 2207; 3518; 3611; 5180
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	16	60; 1038; 2221; 2496; 2872; 2892; 2916; 2947; 3638; 3939; 4377; 4461; 4524; 4593; 4866; 5447
Bst2UI	CC!WGG	22	90; 283; 841; 1048; 1073; 1363; 1483; 1495; 1690; 1738; 1834; 1849; 1978; 3108; 3163; 3180; 3959; 4538; 4641; 5331; 5344; 5465
BstVII	GCAGCNNNNNNNN!	10	787; 901; 1724; 2166; 2360; 3645; 3687; 4208; 4661; 5161
BstVII	!NNNNNNNNNNNGCTGC	8	869; 1843; 2854; 3519; 3703; 3796; 4862; 5068
BstV2I	GAAGACNN!	4	1484; 1814; 2047; 2115
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	12	585; 609; 1082; 1497; 2053; 3743; 3989; 4381; 4740; 4752; 4838; 4849
BstYI	R!GATCY	12	585; 609; 1082; 1497; 2053; 3743; 3989; 4381; 4740; 4752; 4838; 4849
BstZI	C!GGCCG	2	2216; 3478
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	3001; 3791; 5292
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3412
Bsu36I	CC!TNAGG	3	1445; 3052; 4684
BsuRI	GG!CC	35	84; 277; 655; 844; 1046; 1145; 1169; 1186; 1235; 1664; 1907; 1942; 1976; 1999; 2021; 2131; 2173; 2218; 2538; 2680; 3335; 3341; 3350; 3393; 3480; 3654; 4045; 4072; 4581; 4638; 4671; 5016; 5450; 5468; 5479
BsuTUI	AT!CGAT	1	3412
BtgI	C!CRYGG	5	360; 650; 1514; 3301; 4004
BtgZI	GCGATGNNNNNNNNNN!	2	2689; 4024
BtgZI	!NNNNNNNNNNNNNNCATCGC	3	334; 3843; 4187
BthCI	GCNG!C	39	778; 885; 892; 1041; 1235; 1664; 1715; 1859; 1976; 2157; 2218; 2221; 2351; 2870; 2892; 2906; 3344; 3483; 3535; 3546; 3636; 3641; 3678; 3719; 3806; 3812; 4048; 4144; 4185; 4199; 4313; 4652; 4667; 4878; 5084; 5087; 5152; 5295; 5450
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2411
BtsCI	GGATGNN!	5	1305; 3432; 3889; 3914; 4368
BtsCI	!CATCC	7	863; 1409; 1597; 1685; 1742; 1897; 3258
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	2	3840; 4290
BveI	!NNNNNNNNGCAGGT	1	3459
Cac8I	GCN!NGC	34	86; 279; 593; 713; 887; 1034; 1171; 1525; 1615; 1819; 2791; 2834; 2848; 3121; 3140; 3193; 3212; 3466; 3652; 3871; 3937; 3943; 3971; 3975; 4020; 4074; 4357; 4544; 4591; 4647; 4669; 4880; 5440; 5477
CaiI	CAGNNN!CTG	3	2180; 4673; 5081
CciI	T!CATGA	2	2998; 4770
CciNI	GC!GGCCGC	1	2216
CdiI	CATC!G	6	352; 1350; 3861; 3866; 4064; 4205
CdiI	C!GATG	3	1452; 2675; 4010
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNNNN!	1	5444
CdpI	!NNNNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3233; 3275

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; 2838; 2846; 2872; 2894; 2903; 2916; 2947; 3566; 3574; 3638; 3675; 3941; 4201; 4377; 4463; 4866; 4975; 5149; 5249; 5316
CfrI	Y!GGCCR	9	653; 1167; 1233; 2171; 2216; 3478; 3652; 4043; 4070
Cfr9I	C!CCGGG	0	
Cfr10I	R!CCGGY	6	1169; 1503; 2789; 3891; 4072; 4355
Cfr13I	G!GNCC	15	83; 276; 1044; 1144; 1185; 1663; 1906; 1998; 2019; 2679; 4088; 4533; 4579; 4637; 4670
Cfr42I	CCGC!GG	0	
ChaI	GATC!	25	589; 613; 1081; 1086; 1501; 1881; 2031; 2057; 2233; 3413; 3417; 3436; 3747; 3825; 3906; 3915; 3993; 4369; 4385; 4744; 4756; 4834; 4842; 4853; 4928
CjeI	CCANNNNNNGTNNNNNNNNNNNNNN!	6	1507; 1609; 3389; 4829; 4929; 5007
CjeI	!NNNNNNNNNACNNNNNNNTGG	9	64; 257; 1262; 1284; 3056; 3151; 4343; 4893; 5448
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	8	98; 291; 1296; 3090; 3185; 4377; 4927; 5482
CjeI	!NNNNNNNNCCANNNNNNGT	6	1473; 1575; 3355; 4795; 4895; 4973
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	3	708; 4829; 5007
CjePI	!NNNNNNNNGANNNNNNNTGG	6	257; 1092; 1284; 1979; 4343; 4942
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	6	290; 1125; 1317; 2012; 4376; 4975
CjePI	!NNNNNNNNCCANNNNNNNNTC	3	675; 4796; 4974
Clal	AT!CGAT	1	3412
CpoI	CG!GWCCG	1	4088
CseI	GACGCNNNNN!	4	526; 1006; 4282; 4361
CseI	!NNNNNNNNNNGCGTC	4	2079; 2905; 4800; 5378
CsiI	A!CCWGGT	1	3161
CspI	CG!GWCCG	1	4088
Csp6I	G!TAC	12	218; 243; 298; 331; 382; 539; 666; 1491; 1557; 1707; 1959; 3877
Csp45I	TT!CGAA	2	627; 4254
CspAI	A!CCGGT	1	1503
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGNNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNNCAANNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	1559; 2150; 2852; 4461
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	32	301; 361; 651; 703; 716; 792; 798; 856; 1155; 1237; 1369; 1515; 1542; 1548; 1560; 1638; 1704; 1784; 1995; 2999; 3139; 3211; 3302; 3443; 3788; 3974; 4005; 4031; 4387; 4771; 5491; 5542
CviJI	RG!CY	112	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; 1527; 1554; 1617; 1664; 1693; 1700; 1778; 1844; 1856; 1907; 1934; 1942; 1976; 1990; 1999; 2007; 2021; 2131; 2167; 2173; 2218; 2241; 2351; 2518; 2538; 2680; 2761; 2775; 2789; 3070; 3111; 3183; 3306; 3335; 3341; 3350; 3358; 3381; 3393; 3399; 3480; 3497; 3505; 3532; 3557; 3641; 3650; 3654; 3678; 3716; 3792; 3809; 3828; 3891; 3935; 3945; 3962; 4045; 4072; 4076; 4113; 4136; 4152; 4332; 4359; 4420; 4542; 4581; 4638; 4645; 4652; 4671; 4682; 4933; 4962; 5005; 5016; 5081; 5160; 5185; 5190; 5236; 5326; 5424; 5450; 5468; 5479
CviKI-1	RG!CY	112	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; 1527; 1554; 1617; 1664; 1693; 1700; 1778; 1844; 1856; 1907; 1934; 1942; 1976; 1990; 1999; 2007; 2021; 2131; 2167; 2173; 2218; 2241; 2351; 2518; 2538; 2680; 2761; 2775; 2789; 3070; 3111; 3183; 3306; 3335; 3341; 3350; 3358; 3381; 3393; 3399; 3480; 3497; 3505; 3532; 3557; 3641; 3650; 3654; 3678; 3716; 3792; 3809; 3828; 3891; 3935; 3945; 3962; 4045; 4072; 4076; 4113; 4136; 4152; 4332; 4359; 4420; 4542; 4581; 4638; 4645; 4652; 4671; 4682; 4933; 4962; 5005; 5016; 5081; 5160; 5185; 5190; 5236; 5326; 5424; 5450; 5468; 5479
CviQI	G!TAC	12	218; 243; 298; 331; 382; 539; 666; 1491; 1557; 1707; 1959; 3877
DdeI	C!TNAG	12	606; 694; 1174; 1395; 1445; 2069; 3052; 3354; 4235; 4684; 4807; 5216
DinI	GGC!GCC	1	3573

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
DpnI	GA!TC	25	587; 611; 1079; 1084; 1499; 1879; 2029; 2055; 2231; 3411; 3415; 3434; 3745; 3823; 3904; 3913; 3991; 4367; 4383; 4742; 4754; 4832; 4840; 4851; 4926
DpnII	!GATC	25	585; 609; 1077; 1082; 1497; 1877; 2027; 2053; 2229; 3409; 3413; 3432; 3743; 3821; 3902; 3911; 3989; 4365; 4381; 4740; 4752; 4830; 4838; 4849; 4924
DraI	TTT!AAA	3	2274; 4716; 4735
DraII	RG!GNCCY	1	4670
DraIII	CACNNN!GTG	2	2163; 2688
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNN!	2	266; 5052
DraRI	!NNNNNNNNNNNNNNNNNNNGTNCCTG	0	
DrdI	GACNNN!NNGTC	3	2643; 3599; 5388
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2643; 3599; 5388
EaeI	Y!GGCCR	9	653; 1167; 1233; 2171; 2216; 3478; 3652; 4043; 4070
EagI	C!GGCCG	2	2216; 3478
Eam1104I	CTCTCN!	1	808
Eam1104I	!NNNNGAAGAG	4	1457; 3039; 3916; 4126
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	1	808
EarI	!NNNNGAAGAG	4	1457; 3039; 3916; 4126
EciI	GGCGGANNNNNNNNNNNN!	4	3072; 4101; 5288; 5434
EciI	!NNNNNNNNNTCCGCC	4	496; 3243; 3264; 3285
Ecl136II	GAG!CTC	2	618; 1353
EclXI	C!GGCCG	2	2216; 3478
Eco24I	GRGCY!C	5	620; 1355; 2763; 3937; 4647
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNNGAGACC	3	1945; 2134; 4561
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	2	4088; 4533
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	2	2216; 3478
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	3	2023; 3718; 4150
Eco57I	!NNNNNNNNNNNNNNCTTCAG	2	1314; 4948
Eco72I	CAC!GTG	0	
Eco81I	CC!TNAGG	3	1445; 3052; 4684
Eco88I	C!YCGRG	2	613; 1771
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWWGG	7	360; 650; 1514; 3301; 3394; 4004; 4409
Eco147I	AGG!CCT	2	1942; 3393
EcoHI	!CCSGG	6	807; 2085; 3574; 3734; 4347; 5111
EcoICRI	GAG!CTC	2	618; 1353
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	5	1327; 2023; 3718; 4150; 4412
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	4	1314; 1831; 4355; 4948
EcoNI	CCTNN!NNNAGG	1	1070
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	1	4670
EcoRI	G!AATTC	1	629
EcoRII	!CCWGG	22	88; 281; 839; 1046; 1071; 1361; 1481; 1493; 1688; 1736; 1832; 1847; 1976; 3106; 3161; 3178; 3957; 4536; 4639; 5329; 5342; 5463
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	7	360; 650; 1514; 3301; 3394; 4004; 4409
EcoT22I	ATGCA!T	3	3144; 3216; 5547
EcoT38I	GRGCY!C	5	620; 1355; 2763; 3937; 4647
Eco53kl	GAG!CTC	2	618; 1353
EgeI	GGC!GCC	1	3573
EheI	GGC!GCC	1	3573
ErhI	C!CWWGG	7	360; 650; 1514; 3301; 3394; 4004; 4409
EsaBC3I	TC!GA	18	615; 628; 641; 1350; 1656; 1683; 2151; 2722; 3413; 3686; 3842; 3866; 3902; 4064; 4255; 4300; 4555; 5393
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; 1545; 1551; 1563; 1641; 1707; 1787; 1998; 3002; 3142; 3214; 3305; 3446; 3791; 3977; 4008; 4034; 4390; 4774; 5494; 5545
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; 1543; 1549; 1561; 1639; 1705; 1785; 1803; 1996; 2049; 2099; 2234; 2244; 2310; 2355; 2560; 2988; 3000; 3131; 3140; 3203; 3212; 3236; 3303; 3327; 3444; 3508; 3789; 3814; 3975; 4006; 4032; 4104; 4320; 4388; 4466; 4518; 4679; 4696; 4698; 4700; 4772; 5050; 5239; 5355; 5428; 5492; 5543
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	3	1008; 1782; 3912
FalI	!NNNNNNNNAAGNNNNNCTT	3	976; 1750; 3880
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3723; 4255; 4364
FaqI	!NNNNNNNNNNNNNGTCCC	5	1119; 3088; 3160; 3224; 4519
FatI	!CATG	32	300; 360; 650; 702; 715; 791; 797; 855; 1154; 1236; 1368; 1514; 1541; 1547; 1559; 1637; 1703; 1783; 1994; 2998; 3138; 3210; 3301; 3442; 3787; 3973; 4004; 4030; 4386; 4770; 5490; 5541
FauI	CCCGCNNNN!	10	93; 119; 286; 1971; 2073; 2894; 3249; 3270; 4466; 4598
FauI	!NNNNNNNGCGGG	6	2008; 2825; 3695; 4232; 4370; 4517
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	1	1077
FblI	GT!MKAC	2	640; 2093
FmuI	GGNC!C	15	86; 279; 1047; 1147; 1188; 1666; 1909; 2001; 2022; 2682; 4091; 4536; 4582; 4640; 4673
Fnu4HI	GC!NGC	39	776; 883; 890; 1039; 1233; 1662; 1713; 1857; 1974; 2155; 2216; 2219; 2349; 2868; 2890; 2904; 3342; 3481; 3533; 3544; 3634; 3639; 3676; 3717; 3804; 3810; 4046; 4142; 4183; 4197; 4311; 4650; 4665; 4876; 5082; 5085; 5150; 5293; 5448
FokI	GGATGNNNNNNNNN!	5	1312; 3439; 3896; 3921; 4375
FokI	!NNNNNNNNNNNNNCATCC	7	850; 1396; 1584; 1672; 1729; 1884; 3245
FriOI	GRGCY!C	5	620; 1355; 2763; 3937; 4647
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	1	3674
FspAI	RTGC!GCAY	0	
FspBI	C!TAG	10	592; 850; 2192; 2227; 2421; 2839; 3395; 4410; 4744; 4997
FspEI	CCNNNNNNNNNNNN!	183	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; 1584; 1614; 1631; 1645; 1678; 1692; 1710; 1734; 1749; 1779; 1812; 1839; 1854; 1873; 1909; 1956; 1975; 1990; 2004; 2035; 2058; 2078; 2099; 2145; 2187; 2203; 2232; 2255; 2294; 2308; 2449; 2544; 2568; 2591; 2614; 2632; 2654; 2675; 2694; 2713; 2742; 2763; 2777; 2803; 2891; 2917; 2966; 3007; 3025; 3064; 3080; 3118; 3175; 3190; 3247; 3267; 3281; 3298; 3312; 3349; 3364; 3407; 3490; 3557; 3588; 3608; 3623; 3668; 3682; 3748; 3762; 3781; 3797; 3838; 3858; 3905; 3955; 3971; 3991; 4016; 4036; 4059; 4086; 4104; 4130; 4170; 4196; 4220; 4276; 4290; 4318; 4361; 4382; 4417; 4461; 4549; 4573; 4595; 4615; 4631; 4652; 4666; 4685; 4769; 4789; 4817; 4832; 4866; 4908; 4935; 4950; 4995; 5019; 5033; 5055; 5081; 5101; 5125; 5151; 5199; 5218; 5237; 5263; 5298; 5343; 5373; 5387; 5438; 5452; 5477; 5493; 5514; 5543
FspEI	!NNNNNNNNNNNNNNNGG	151	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; 1519; 1546; 1588; 1609; 1633; 1675; 1694; 1723; 1759; 1796; 1819; 1838; 1868; 1889; 1916; 1955; 1981; 2000; 2072; 2098; 2146; 2185; 2243; 2343; 2412; 2442; 2520; 2569; 2591; 2619; 2655; 2700; 2729; 2765; 2784; 2812; 2832; 2895; 2918; 3026; 3058; 3076; 3105; 3148; 3177; 3288; 3317; 3360; 3381; 3409; 3442; 3462; 3487; 3514; 3539; 3561; 3589; 3615; 3636; 3687; 3708; 3726; 3774; 3810; 3866; 3891; 3915; 3944; 3967; 3991; 4017; 4039; 4058; 4083; 4123; 4159; 4224; 4309; 4333; 4362; 4396; 4417; 4437; 4482; 4509; 4528; 4561; 4613; 4644; 4671; 4723; 4821; 4892; 4937; 4998; 5063; 5097; 5123; 5141; 5177; 5247; 5270; 5292; 5316; 5349; 5397; 5432; 5450; 5507

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Fsp4HI	GC!NGC	39	776; 883; 890; 1039; 1233; 1662; 1713; 1857; 1974; 2155; 2216; 2219; 2349; 2868; 2890; 2904; 3342; 3481; 3533; 3544; 3634; 3639; 3676; 3717; 3804; 3810; 4046; 4142; 4183; 4197; 4311; 4650; 4665; 4876; 5082; 5085; 5150; 5293; 5448
GdiII	C!GGCCR	3	1233; 2216; 3478
GdiII	Y!GGCCG	6	653; 1167; 2216; 3478; 4043; 4070
GlaI	GC!GC	23	596; 1037; 1058; 2837; 2845; 2871; 2893; 2902; 2915; 2946; 3565; 3573; 3637; 3674; 3940; 4200; 4376; 4462; 4865; 4974; 5148; 5248; 5315
Glul	GC!NGC	39	776; 883; 890; 1039; 1233; 1662; 1713; 1857; 1974; 2155; 2216; 2219; 2349; 2868; 2890; 2904; 3342; 3481; 3533; 3544; 3634; 3639; 3676; 3717; 3804; 3810; 4046; 4142; 4183; 4197; 4311; 4650; 4665; 4876; 5082; 5085; 5150; 5293; 5448
GsaI	CCCAG!C	3	3119; 3191; 5190
GsaI	GCTGG!G	2	1938; 4080
GsuI	CTGGAGNNNNNNNNNNNNNNNN!	2	1327; 4412
GsuI	!NNNNNNNNNNNNNNCTCCAG	2	1831; 4355
HaeI	WGG!CCW	8	844; 1942; 2173; 3393; 3654; 5016; 5468; 5479
HaeII	RGCGC!Y	6	598; 1060; 2839; 2847; 3575; 5250
HaeIII	GG!CC	35	84; 277; 655; 844; 1046; 1145; 1169; 1186; 1235; 1664; 1907; 1942; 1976; 1999; 2021; 2131; 2173; 2218; 2538; 2680; 3335; 3341; 3350; 3393; 3480; 3654; 4045; 4072; 4581; 4638; 4671; 5016; 5450; 5468; 5479
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2247; 3768
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2213; 3734
HaeIV	GAYNNNNNRTCNNNNNNNNNNNN!	2	2246; 3767
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2215; 3736
HapII	C!CGG	22	601; 809; 1170; 1203; 1504; 2087; 2790; 3477; 3554; 3576; 3604; 3735; 3825; 3892; 4073; 4348; 4356; 4448; 4922; 5112; 5138; 5285
HgaI	GACGCNNNNN!	4	526; 1006; 4282; 4361
HgaI	!NNNNNNNNNGCGTC	4	2079; 2905; 4800; 5378
HhaI	GCG!C	23	597; 1038; 1059; 2838; 2846; 2872; 2894; 2903; 2916; 2947; 3566; 3574; 3638; 3675; 3941; 4201; 4377; 4463; 4866; 4975; 5149; 5249; 5316
HinI	GR!CGYC	9	122; 175; 258; 444; 1132; 2090; 3572; 4274; 4353
HinII	CATG!	32	304; 364; 654; 706; 719; 795; 801; 859; 1158; 1240; 1372; 1518; 1545; 1551; 1563; 1641; 1707; 1787; 1998; 3002; 3142; 3214; 3305; 3446; 3791; 3977; 4008; 4034; 4390; 4774; 5494; 5545
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	2246; 3767
Hin4I	!NNNNNNNGABNNNNNRTC	3	2214; 3735; 3765
Hin4I	GABNNNNNRTCNNNNNNNNNNNN!	3	2246; 3767; 3797
Hin4I	!NNNNNNNGAYNNNNNVTC	2	2214; 3735
Hin6I	G!CGC	23	595; 1036; 1057; 2836; 2844; 2870; 2892; 2901; 2914; 2945; 3564; 3572; 3636; 3673; 3939; 4199; 4375; 4461; 4864; 4973; 5147; 5247; 5314
HinP1I	G!CGC	23	595; 1036; 1057; 2836; 2844; 2870; 2892; 2901; 2914; 2945; 3564; 3572; 3636; 3673; 3939; 4199; 4375; 4461; 4864; 4973; 5147; 5247; 5314
HincII	GTY!RAC	4	641; 723; 912; 2335
HindII	GTY!RAC	4	641; 723; 912; 2335
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	20	410; 604; 696; 727; 1209; 1433; 1643; 1793; 2120; 2223; 2615; 2637; 3047; 4057; 4191; 4243; 4301; 4338; 5120; 5516
HpaI	GTT!AAC	1	2335
HpaII	C!CGG	22	601; 809; 1170; 1203; 1504; 2087; 2790; 3477; 3554; 3576; 3604; 3735; 3825; 3892; 4073; 4348; 4356; 4448; 4922; 5112; 5138; 5285
HphI	GGTGANNNNNNNN!	6	376; 1087; 1530; 1899; 4643; 4759
HphI	!NNNNNNNTCACC	3	1788; 2689; 3750
Hpy8I	GTN!NAC	19	201; 539; 577; 641; 666; 723; 819; 912; 1281; 1575; 1595; 1890; 2094; 2103; 2335; 2619; 2636; 2691; 5178
Hpy99I	CGWCG!	8	2152; 3662; 3690; 3984; 3999; 4276; 4661; 5394
Hpy166II	GTN!NAC	19	201; 539; 577; 641; 666; 723; 819; 912; 1281; 1575; 1595; 1890; 2094; 2103; 2335; 2619; 2636; 2691; 5178
Hpy188I	TCN!GA	16	585; 609; 695; 1082; 1602; 1882; 2746; 3355; 3539; 3883; 4236; 4337; 4816; 4950; 5303; 5381

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Hpy188III	TC!NNGA	27	613; 897; 1203; 1258; 1342; 1875; 2079; 2227; 2999; 3051; 3364; 3417; 3590; 3906; 3915; 3998; 4054; 4098; 4188; 4221; 4290; 4771; 4845; 4928; 5026; 5124; 5258
HpyAV	CCTTCNNNNNN!	6	1683; 1731; 1776; 4217; 4324; 5003
HpyAV	!NNNNNGAAGG	11	1305; 1423; 1603; 1975; 2805; 3700; 4429; 4445; 4628; 4945; 5255
HpyCH4III	ACN!GT	15	76; 198; 269; 543; 581; 1296; 1572; 2663; 3952; 4068; 4176; 4499; 4990; 5460; 5531
HpyCH4IV	A!CGT	19	122; 134; 175; 258; 339; 444; 1052; 1132; 1317; 1871; 2147; 2632; 2644; 2687; 2797; 3688; 3875; 4656; 4789
HpyCH4V	TG!CA	27	636; 715; 735; 819; 885; 1158; 1196; 1545; 1595; 1917; 2033; 2321; 2348; 2416; 3133; 3142; 3205; 3214; 3329; 3405; 3464; 3623; 3798; 3812; 4882; 5178; 5545
HpyF3I	C!TNAG	12	606; 694; 1174; 1395; 1445; 2069; 3052; 3354; 4235; 4684; 4807; 5216
HpyF10VI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 652; 1038; 1175; 1406; 1551; 1982; 1996; 2799; 2829; 2856; 2898; 3139; 3211; 3262; 3341; 3563; 3647; 3670; 3809; 3932; 4015; 4282; 4469; 4673; 4872; 5444
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 1132; 2090; 3572; 4274; 4353
Hsp92II	CATG!	32	304; 364; 654; 706; 719; 795; 801; 859; 1158; 1240; 1372; 1518; 1545; 1551; 1563; 1641; 1707; 1787; 1998; 3002; 3142; 3214; 3305; 3446; 3791; 3977; 4008; 4034; 4390; 4774; 5494; 5545
HspAI	G!CGC	23	595; 1036; 1057; 2836; 2844; 2870; 2892; 2901; 2914; 2945; 3564; 3572; 3636; 3673; 3939; 4199; 4375; 4461; 4864; 4973; 5147; 5247; 5314
KasI	G!GCGCC	1	3571
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	2335
Kzo9I	!GATC	25	585; 609; 1077; 1082; 1497; 1877; 2027; 2053; 2229; 3409; 3413; 3432; 3743; 3821; 3902; 3911; 3989; 4365; 4381; 4740; 4752; 4830; 4838; 4849; 4924
LguI	GCTCTTCN!	1	808
LguI	!NNNNGAAGAGC	3	1457; 3916; 4126
LpnI	RGC!GCGY	6	596; 1058; 2837; 2845; 3573; 5248
LpnPI	CCDGNNNNNNNNNN!	74	102; 295; 614; 696; 745; 799; 822; 853; 938; 1060; 1085; 1183; 1206; 1375; 1400; 1457; 1495; 1517; 1645; 1702; 1750; 1846; 1861; 1922; 1969; 1990; 2014; 2038; 2100; 2187; 2309; 2614; 2803; 3026; 3064; 3080; 3120; 3175; 3192; 3292; 3377; 3490; 3567; 3589; 3612; 3748; 3762; 3781; 3838; 3905; 3955; 3971; 4028; 4086; 4295; 4361; 4385; 4461; 4550; 4653; 4686; 4917; 4935; 5081; 5101; 5125; 5151; 5200; 5298; 5343; 5373; 5452; 5477; 5514
LpnPI	!NNNNNNNNNNNNNCHGG	67	75; 268; 552; 586; 755; 794; 826; 1018; 1058; 1127; 1151; 1188; 1261; 1291; 1348; 1382; 1468; 1489; 1675; 1723; 1819; 1920; 1963; 2072; 2098; 2185; 2655; 2775; 2832; 2895; 3093; 3105; 3165; 3177; 3409; 3454; 3497; 3539; 3561; 3589; 3636; 3698; 3720; 3810; 3877; 3900; 3944; 4039; 4058; 4083; 4232; 4333; 4376; 4433; 4523; 4626; 4653; 4671; 4907; 4944; 5097; 5123; 5263; 5281; 5316; 5397; 5450
Lsp1109I	GCAGCNNNNNNNN!	10	787; 901; 1724; 2166; 2360; 3645; 3687; 4208; 4661; 5161
Lsp1109I	!NNNNNNNNNNNGCTGC	8	869; 1843; 2854; 3519; 3703; 3796; 4862; 5068
LweI	GCATCNNNNNN!	9	1409; 1476; 1751; 2388; 3151; 3223; 3871; 3935; 4210
LweI	!NNNNNNNNNGATGC	8	357; 1236; 1904; 2072; 3530; 3785; 4001; 5393
MabI	A!CCWGGT	1	3161
MaeI	C!TAG	10	592; 850; 2192; 2227; 2421; 2839; 3395; 4410; 4744; 4997
MaeII	A!CGT	19	122; 134; 175; 258; 339; 444; 1052; 1132; 1317; 1871; 2147; 2632; 2644; 2687; 2797; 3688; 3875; 4656; 4789
MaeIII	!GTNAC	16	61; 148; 497; 678; 1318; 1342; 1794; 2360; 2861; 2873; 3692; 3998; 4688; 4954; 5070; 5133
MaiI	GA!TC	25	587; 611; 1079; 1084; 1499; 1879; 2029; 2055; 2231; 3411; 3415; 3434; 3745; 3823; 3904; 3913; 3991; 4367; 4383; 4742; 4754; 4832; 4840; 4851; 4926
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	5	157; 240; 426; 638; 701
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2996; 4185
MbiI	GAG!CGG	3	2215; 2832; 4239
MboI	!GATC	25	585; 609; 1077; 1082; 1497; 1877; 2027; 2053; 2229; 3409; 3413; 3432; 3743; 3821; 3902; 3911; 3989; 4365; 4381; 4740; 4752; 4830; 4838; 4849; 4924
MboII	GAAGANNNNNNNN!	13	912; 1218; 1474; 1489; 1819; 1932; 2052; 2120; 2828; 3056; 3933; 4143; 4762
MboII	!NNNNNNNTCTTC	6	795; 1077; 4223; 4390; 4590; 4833
McaTI	GCGC!GC	0	
MfeI	C!AATTG	1	2322
MflI	R!GATCY	12	585; 609; 1082; 1497; 2053; 3743; 3989; 4381; 4740; 4752; 4838; 4849
MhII	GDGCH!C	15	620; 821; 1355; 1570; 1597; 1630; 2207; 2763; 3518; 3611; 3685; 3875; 3937; 4647; 5180
MIsI	TGG!CCA	2	2173; 3654
MluI	A!CGCGT	0	
MluNI	TGG!CCA	2	2173; 3654
MlyI	GAGTCNNNNN!	4	705; 1802; 2624; 3056
MlyI	!NNNNNGACTC	7	404; 598; 721; 2217; 2631; 4237; 5114
Mly113I	GG!CGCC	1	3572
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	2	1925; 2665
MmeI	!NNNNNNNNNNNNNNNNNGTYGGA	2	5097; 5281
MnII	CCTCNNNNNN!	19	748; 1037; 1073; 1173; 1223; 1423; 1676; 1855; 1870; 1953; 2086; 2197; 2291; 3355; 4173; 4379; 4693; 5063; 5387
MnII	!NNNNNGAGG	26	541; 818; 1121; 1419; 1440; 1557; 1596; 1617; 1650; 1767; 1876; 1932; 2121; 2154; 2251; 2716; 3047; 3325; 3368; 3383; 3423; 3487; 3623; 3980; 4410; 5313
Mph1103I	ATGCA!T	3	3144; 3216; 5547
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	1	1202
MroNI	G!CCGGC	4	1169; 2789; 4072; 4355
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	2	2173; 3654
MseI	T!TAA	18	7; 983; 1532; 1757; 2273; 2334; 2455; 2476; 2487; 2499; 2510; 2527; 2625; 2896; 4715; 4729; 4734; 4786
MslI	CAYNN!NNRTG	7	365; 676; 796; 1373; 1516; 1546; 4009
MspI	C!CGG	22	601; 809; 1170; 1203; 1504; 2087; 2790; 3477; 3554; 3576; 3604; 3735; 3825; 3892; 4073; 4348; 4356; 4448; 4922; 5112; 5138; 5285
Msp20I	TGG!CCA	2	2173; 3654
MspA1I	CMG!CKG	6	1275; 1966; 3070; 3678; 4907; 5152
MspCI	C!TTAAG	1	2454

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	281	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; 1536; 1554; 1572; 1602; 1620; 1635; 1650; 1668; 1701; 1716; 1744; 1759; 1783; 1796; 1812; 1830; 1844; 1860; 1873; 1887; 1908; 1921; 1942; 1961; 1975; 1989; 2003; 2020; 2037; 2058; 2077; 2091; 2118; 2136; 2156; 2170; 2186; 2203; 2218; 2232; 2245; 2260; 2279; 2296; 2309; 2350; 2364; 2377; 2395; 2433; 2448; 2466; 2507; 2531; 2551; 2569; 2590; 2613; 2645; 2660; 2682; 2700; 2713; 2734; 2751; 2764; 2777; 2793; 2806; 2836; 2851; 2876; 2894; 2907; 2922; 2946; 2960; 2984; 3009; 3025; 3063; 3079; 3118; 3132; 3146; 3174; 3190; 3204; 3218; 3247; 3260; 3281; 3290; 3312; 3342; 3358; 3376; 3406; 3429; 3453; 3477; 3496; 3524; 3550; 3566; 3579; 3602; 3616; 3636; 3649; 3663; 3682; 3696; 3709; 3725; 3740; 3753; 3769; 3784; 3800; 3825; 3844; 3860; 3873; 3886; 3904; 3918; 3932; 3948; 3970; 3986; 4005; 4027; 4043; 4066; 4085; 4099; 4115; 4129; 4149; 4165; 4178; 4200; 4233; 4247; 4267; 4280; 4294; 4348; 4361; 4384; 4397; 4416; 4433; 4460; 4496; 4529; 4548; 4573; 4594; 4621; 4634; 4651; 4665; 4680; 4696; 4756; 4781; 4797; 4819; 4832; 4846; 4877; 4891; 4916; 4934; 4949; 4962; 4981; 4994; 5009; 5038; 5057; 5075; 5100; 5115; 5134; 5150; 5169; 5187; 5203; 5217; 5236; 5263; 5286; 5308; 5327; 5342; 5355; 5372; 5392; 5419; 5432; 5451; 5476; 5499; 5513; 5526; 5543
MspJI	!NNNNNNNNNNNNNYNG	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; 1519; 1546; 1576; 1600; 1618; 1642; 1661; 1683; 1723; 1744; 1770; 1790; 1819; 1861; 1895; 1916; 1936; 1963; 1981; 1998; 2016; 2044; 2065; 2084; 2110; 2132; 2155; 2178; 2198; 2224; 2253; 2282; 2324; 2407; 2442; 2469; 2492; 2521; 2565; 2587; 2619; 2655; 2672; 2693; 2730; 2750; 2767; 2784; 2819; 2837; 2855; 2872; 2896; 2918; 2945; 2973; 2999; 3037; 3058; 3075; 3093; 3116; 3137; 3165; 3188; 3209; 3227; 3248; 3265; 3288; 3312; 3332; 3350; 3372; 3403; 3425; 3451; 3470; 3487; 3515; 3534; 3553; 3571; 3589; 3610; 3632; 3656; 3689; 3709; 3727; 3748; 3774; 3801; 3818; 3835; 3852; 3878; 3900; 3922; 3940; 3960; 3979; 4001; 4039; 4059; 4083; 4103; 4123; 4150; 4174; 4207; 4226; 4254; 4276; 4305; 4333; 4358; 4377; 4396; 4417; 4434; 4451; 4482; 4509; 4529; 4552; 4572; 4609; 4626; 4645; 4671; 4691; 4730; 4757; 4776; 4794; 4831; 4849; 4890; 4908; 4934; 4951; 4983; 5012; 5040; 5061; 5084; 5103; 5124; 5142; 5159; 5177; 5203; 5224; 5244; 5264; 5282; 5303; 5329; 5346; 5365; 5384; 5413; 5432; 5450; 5469; 5487; 5505; 5528
MspR9I	CC!NGG	28	90; 283; 809; 841; 1048; 1073; 1363; 1483; 1495; 1690; 1738; 1834; 1849; 1978; 2087; 3108; 3163; 3180; 3576; 3736; 3959; 4349; 4538; 4641; 5113; 5331; 5344; 5465
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2322
MvaI	CC!WGG	22	90; 283; 841; 1048; 1073; 1363; 1483; 1495; 1690; 1738; 1834; 1849; 1978; 3108; 3163; 3180; 3959; 4538; 4641; 5331; 5344; 5465
MvaI269I	GAATGCN!	1	2323
MvaI269I	G!CATTC	2	1196; 2416
MvnI	CG!CG	16	60; 1038; 2221; 2496; 2872; 2892; 2916; 2947; 3638; 3939; 4377; 4461; 4524; 4593; 4866; 5447
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	32	90; 212; 244; 283; 376; 400; 652; 1038; 1175; 1406; 1551; 1982; 1996; 2799; 2829; 2856; 2898; 3139; 3211; 3262; 3341; 3563; 3647; 3670; 3809; 3932; 4015; 4282; 4469; 4673; 4872; 5444
NaeI	GCC!GGC	4	1171; 2791; 4074; 4357
NarI	GG!CGCC	1	3572
NciI	CC!SGG	6	809; 2087; 3576; 3736; 4349; 5113
NcoI	C!CATGG	5	360; 650; 1514; 3301; 4004

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeI	CA!TATG	1	234
NdeII	!GATC	25	585; 609; 1077; 1082; 1497; 1877; 2027; 2053; 2229; 3409; 3413; 3432; 3743; 3821; 3902; 3911; 3989; 4365; 4381; 4740; 4752; 4830; 4838; 4849; 4924
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	1	1634
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	1	1670
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	4	1169; 2789; 4072; 4355
NheI	G!CTAGC	1	591
NlaIII	CATG!	32	304; 364; 654; 706; 719; 795; 801; 859; 1158; 1240; 1372; 1518; 1545; 1551; 1563; 1641; 1707; 1787; 1998; 3002; 3142; 3214; 3305; 3446; 3791; 3977; 4008; 4034; 4390; 4774; 5494; 5545
NlaIV	GGN!NCC	19	467; 1187; 1499; 1569; 1629; 2020; 2727; 2748; 2760; 2951; 3112; 3184; 3573; 3608; 4456; 4535; 4580; 5423; 5462
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2404; 2719; 4311
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	3	347; 1894; 5383
Nli3877I	CYCGR!G	2	617; 1775
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	2	3361; 3797
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	2	1910; 3326
NmeDI	RCCGGYNNNNNN!	6	1181; 1515; 2801; 3903; 4084; 4367
NmeDI	!NNNNNNNNNNNNRCCGGY	6	1156; 1490; 2776; 3878; 4059; 4342
NmuCI	!GTSAC	7	678; 1318; 1342; 1794; 2861; 3692; 3998
NotI	GC!GGCCGC	1	2216
NruI	TCG!CGA	0	
NsbI	TGC!GCA	1	3674
NsiI	ATGCA!T	3	3144; 3216; 5547
NspI	RCATG!Y	7	801; 1158; 1545; 3142; 3214; 3977; 5494
NspV	TT!CGAA	2	627; 4254
OliI	CACNN!NNGTG	2	676; 1516
PabI	GTA!C	12	220; 245; 300; 333; 384; 541; 668; 1493; 1559; 1709; 1961; 3879
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	3142; 3214; 3977
PaeR7I	C!TCGAG	1	613
PagI	T!CATGA	2	2998; 4770
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	3	1737; 4537; 4640
PauI	G!CGCGC	0	
PceI	AGG!CCT	2	1942; 3393
PciI	A!CATGT	1	5490
PciSI	GCTCTTCN!	1	808
PciSI	!NNNNGAAGAGC	3	1457; 3916; 4126
PcsI	WCGNNNN!NNNCGW	7	2156; 3866; 3943; 4186; 4260; 4653; 5171
PctI	GAATGCN!	1	2323
PctI	G!CATTC	2	1196; 2416
PdiI	GCC!GGC	4	1171; 2791; 4074; 4357
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	9	1209; 1433; 1643; 2120; 4057; 4191; 4301; 4338; 5516
Pfi23II	C!GTACG	0	
Pfifi	GACN!NNGTC	1	3690
Pfimi	CCANNNN!NTGG	2	792; 1275
PfoI	T!CCNGGA	2	1847; 4347
PhoI	GG!CC	35	84; 277; 655; 844; 1046; 1145; 1169; 1186; 1235; 1664; 1907; 1942; 1976; 1999; 2021; 2131; 2173; 2218; 2538; 2680; 3335; 3341; 3350; 3393; 3480; 3654; 4045; 4072; 4581; 4638; 4671; 5016; 5450; 5468; 5479
PinAI	A!CCGGT	1	1503
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	2	1243; 3953
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	3	1224; 3518; 3773
PleI	GAGTCNNNN!	4	704; 1801; 2623; 3055
PleI	!NNNNGACTC	7	404; 598; 721; 2217; 2631; 4237; 5114
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	0	
PmeI	GTTT!AAAC	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PmlI	CAC!GTG	0	
PpiI	GAACNNNNNCTCNNNNNNNNNNNN!	1	2654
PpiI	!NNNNNNNNGAGNNNNNGTTC	1	4784
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4816
PpiI	!NNNNNNNGAACNNNNNNCTC	1	2622
PpsI	GAGTCNNNN!	4	704; 1801; 2623; 3055
PpsI	!NNNNNGACTC	7	404; 598; 721; 2217; 2631; 4237; 5114
Ppu10I	A!TGCAT	3	3140; 3212; 5543
Ppu21I	YAC!GTR	3	340; 2688; 3876
PpuMI	RG!GWCCY	0	
Psci	A!CATGT	1	5490
PshAI	GACNN!NNGTC	1	2146
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2355; 2560
Psp03I	GGWC!C	2	4091; 4536
Psp5II	RG!GWCCY	0	
Psp6I	!CCWGG	22	88; 281; 839; 1046; 1071; 1361; 1481; 1493; 1688; 1736; 1832; 1847; 1976; 3106; 3161; 3178; 3957; 4536; 4639; 5329; 5342; 5463
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; 1688; 1736; 1832; 1847; 1976; 3106; 3161; 3178; 3957; 4536; 4639; 5329; 5342; 5463
PspLI	C!GTACC	0	
PspN4I	GGN!NCC	19	467; 1187; 1499; 1569; 1629; 2020; 2727; 2748; 2760; 2951; 3112; 3184; 3573; 3608; 4456; 4535; 4580; 5423; 5462
PspOMI	G!GGCCC	0	
PspOMII	CGCCARNNNNNNNNNNNNNNNNNNN!	3	125; 3302; 4301
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	1	3704
PspPI	G!GNCC	15	83; 276; 1044; 1144; 1185; 1663; 1906; 1998; 2019; 2679; 4088; 4533; 4579; 4637; 4670
PspPPI	RG!GWCCY	0	
PspPRI	CCYCAGNNNNNNNNNNNNNNNN!	3	3125; 3197; 4703
PspPRI	!NNNNNNNNNNNNNNCTGRGG	4	1431; 2186; 3038; 4233
PspXI	VC!TCGAGB	0	
PsrI	GAACNNNNNNTACNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNTAC	0	
Pssi	RGGNC!CY	1	4673
PstI	CTGCA!G	1	638
PstNI	CAGNNN!CTG	3	2180; 4673; 5081
PsuI	R!GATCY	12	585; 609; 1082; 1497; 2053; 3743; 3989; 4381; 4740; 4752; 4838; 4849
PsyI	GACN!NNGTC	1	3690
PteI	G!CGCGC	0	
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	3	1275; 3070; 3678
RcaI	T!CATGA	2	2998; 4770
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	4087
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNNN!	2	1155; 2301
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; 1558; 1708; 1960; 3878

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RsaNI	G!TAC	12	218; 243; 298; 331; 382; 539; 666; 1491; 1557; 1707; 1959; 3877
RseI	CAYNN!NNRTG	7	365; 676; 796; 1373; 1516; 1546; 4009
RsrII	CG!GWCCG	1	4088
Rsr2I	CG!GWCCG	1	4088
SacI	GAGCT!C	2	620; 1355
SacII	CCGC!GG	0	
SalI	G!TCGAC	1	639
SapI	GCTCTTCN!	1	808
SapI	!NNNNGAAGAGC	3	1457; 3916; 4126
SaqAI	T!TAA	18	7; 983; 1532; 1757; 2273; 2334; 2455; 2476; 2487; 2499; 2510; 2527; 2625; 2896; 4715; 4729; 4734; 4786
SatI	GC!NGC	39	776; 883; 890; 1039; 1233; 1662; 1713; 1857; 1974; 2155; 2216; 2219; 2349; 2868; 2890; 2904; 3342; 3481; 3533; 3544; 3634; 3639; 3676; 3717; 3804; 3810; 4046; 4142; 4183; 4197; 4311; 4650; 4665; 4876; 5082; 5085; 5150; 5293; 5448
Sau96I	G!GNCC	15	83; 276; 1044; 1144; 1185; 1663; 1906; 1998; 2019; 2679; 4088; 4533; 4579; 4637; 4670
Sau3AI	!GATC	25	585; 609; 1077; 1082; 1497; 1877; 2027; 2053; 2229; 3409; 3413; 3432; 3743; 3821; 3902; 3911; 3989; 4365; 4381; 4740; 4752; 4830; 4838; 4849; 4924
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	0	
SchI	GAGTCNNNNN!	4	705; 1802; 2624; 3056
SchI	!NNNNNGACTC	7	404; 598; 721; 2217; 2631; 4237; 5114
SciI	CTC!GAG	1	615
ScrFI	CC!NGG	28	90; 283; 809; 841; 1048; 1073; 1363; 1483; 1495; 1690; 1738; 1834; 1849; 1978; 2087; 3108; 3163; 3180; 3576; 3736; 3959; 4349; 4538; 4641; 5113; 5331; 5344; 5465
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNN!	7	1389; 1944; 2132; 3150; 3222; 3391; 5333
SdeAI	!NNNNNNNNNNNNNNNNNNNNCTYCTG	2	3727; 4212
SdeOSI	GACNNNNRTGANNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNRTGA	1	245
SduI	GDGCH!C	15	620; 821; 1355; 1570; 1597; 1630; 2207; 2763; 3518; 3611; 3685; 3875; 3937; 4647; 5180
SelI	!CGCG	16	58; 1036; 2219; 2494; 2870; 2890; 2914; 2945; 3636; 3937; 4375; 4459; 4522; 4591; 4864; 5445
SetI	ASST!	77	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; 1529; 1556; 1702; 1723; 1874; 2009; 2027; 2078; 2146; 2150; 2165; 2189; 2262; 2283; 2292; 2304; 2353; 2520; 2635; 2647; 2690; 2727; 2777; 2800; 2924; 3072; 3167; 3360; 3473; 3601; 3680; 3691; 3763; 3834; 3878; 4138; 4284; 4328; 4659; 4690; 4749; 4792; 4935; 4956; 5055; 5192; 5207; 5226; 5238; 5282; 5328; 5379
SexAI	A!CCWGGT	1	3161
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	9	1409; 1476; 1751; 2388; 3151; 3223; 3871; 3935; 4210
SfaNI	!NNNNNNNNNGATGC	8	357; 1236; 1904; 2072; 3530; 3785; 4001; 5393
SfcI	C!TRYAG	5	634; 926; 2907; 5034; 5225
SfiI	GGCCNNNN!NGGCC	1	3347
SfoI	GGC!GCC	1	3573
Sfr274I	C!TCGAG	1	613
Sfr303I	CCGC!GG	0	
SfuI	TT!CGAA	2	627; 4254

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; 1536; 1554; 1572; 1602; 1626; 1644; 1659; 1701; 1716; 1749; 1783; 1796; 1824; 1845; 1860; 1887; 1921; 1942; 1962; 1975; 1989; 2007; 2020; 2037; 2070; 2091; 2125; 2163; 2186; 2204; 2232; 2279; 2308; 2350; 2433; 2507; 2591; 2613; 2645; 2682; 2700; 2719; 2734; 2776; 2793; 2810; 2845; 2859; 2876; 2898; 2922; 2946; 3011; 3025; 3063; 3079; 3119; 3132; 3151; 3174; 3191; 3204; 3223; 3253; 3274; 3291; 3314; 3349; 3376; 3407; 3429; 3455; 3477; 3496; 3524; 3560; 3579; 3602; 3616; 3636; 3649; 3663; 3682; 3696; 3715; 3747; 3761; 3774; 3800; 3831; 3844; 3861; 3878; 3892; 3909; 3927; 3942; 3970; 3986; 4005; 4027; 4043; 4066; 4085; 4110; 4129; 4149; 4176; 4200; 4233; 4252; 4280; 4294; 4360; 4384; 4399; 4422; 4443; 4460; 4508; 4535; 4549; 4578; 4602; 4635; 4652; 4672; 4685; 4698; 4756; 4783; 4802; 4832; 4857; 4877; 4891; 4916; 4934; 4971; 5009; 5038; 5066; 5080; 5100; 5115; 5136; 5150; 5169; 5187; 5203; 5243; 5263; 5290; 5308; 5329; 5342; 5355; 5372; 5396; 5419; 5451; 5476; 5503; 5525
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; 1528; 1546; 1576; 1600; 1618; 1642; 1675; 1723; 1757; 1798; 1819; 1861; 1895; 1916; 1936; 1963; 1981; 2002; 2023; 2044; 2065; 2099; 2137; 2160; 2178; 2206; 2253; 2282; 2324; 2407; 2481; 2565; 2587; 2619; 2656; 2674; 2693; 2750; 2767; 2784; 2819; 2837; 2857; 2877; 2896; 2920; 2985; 3037; 3093; 3125; 3148; 3165; 3197; 3227; 3248; 3265; 3288; 3323; 3350; 3381; 3403; 3429; 3451; 3470; 3498; 3534; 3553; 3576; 3597; 3615; 3632; 3656; 3689; 3721; 3748; 3774; 3805; 3835; 3852; 3878; 3901; 3922; 3944; 3964; 3984; 4001; 4040; 4059; 4084; 4103; 4123; 4150; 4174; 4207; 4226; 4254; 4276; 4334; 4358; 4377; 4396; 4417; 4434; 4482; 4509; 4529; 4552; 4576; 4609; 4626; 4646; 4672; 4730; 4757; 4776; 4806; 4831; 4851; 4890; 4908; 4945; 4983; 5012; 5040; 5061; 5089; 5110; 5143; 5161; 5217; 5237; 5264; 5282; 5303; 5329; 5346; 5370; 5393; 5425; 5450; 5477; 5499; 5528
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; 2719; 4506; 5299
SimI	!GACCC	5	106; 1952; 4000; 4568; 4816
SinI	G!GWCC	2	4088; 4533
SlaI	C!TCGAG	1	613
SmaI	CCC!GGG	0	
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	7	365; 676; 796; 1373; 1516; 1546; 4009
SmlI	C!TYRAG	9	613; 619; 822; 2077; 2454; 3963; 4845; 5122; 5384
SmoI	C!TYRAG	9	613; 619; 822; 2077; 2454; 3963; 4845; 5122; 5384
SmuI	CCCGCNNNN!	10	93; 119; 286; 1971; 2073; 2894; 3249; 3270; 4466; 4598
SmuI	!NNNNNNGCGGG	6	2008; 2825; 3695; 4232; 4370; 4517
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	3142; 3214; 3977
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	16	18; 629; 934; 949; 960; 988; 1253; 2322; 2386; 2464; 2490; 2501; 3148; 3220; 3312; 4730
Sse8387I	CCTGCA!GG	0	
Sse8647I	AG!GWCCT	0	
SseBI	AGG!CCT	2	1942; 3393
SsiI	C!CGC	35	58; 86; 98; 112; 279; 507; 589; 1826; 1964; 2066; 2219; 2887; 2890; 2904; 2994; 3242; 3254; 3263; 3275; 3285; 3296; 3342; 3481; 3544; 4046; 4091; 4157; 4183; 4308; 4311; 4459; 4591; 4898; 5042; 5538

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	G!CGG	30	370; 403; 528; 1038; 1232; 1651; 1661; 1973; 2015; 2215; 2832; 2859; 2947; 3057; 3638; 3702; 3803; 3806; 4086; 4141; 4239; 4377; 4524; 4664; 4907; 5152; 5273; 5292; 5419; 5447
SspI	AAT!ATT	2	2480; 3033
SspDI	G!GCGCC	1	3571
SspD5I	GGTGANNNNNNNN!	6	376; 1087; 1530; 1899; 4643; 4759
SspD5I	!NNNNNNNNTCACC	3	1787; 2688; 3749
SstI	GAGCT!C	2	620; 1355
SstII	CCGC!GG	0	
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNN!	1	1832
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	22	92; 118; 285; 815; 1230; 1754; 1778; 1970; 2072; 2093; 2771; 2893; 3248; 3269; 3582; 3985; 4124; 4195; 4465; 4597; 4827; 5265
Sth132I	!NNNNNNNNCGGG	20	15; 407; 470; 1803; 2007; 2772; 2824; 2925; 3652; 3694; 3727; 4231; 4340; 4369; 4516; 4620; 4651; 5104; 5148; 5356
Sth302II	CC!GG	22	602; 810; 1171; 1204; 1505; 2088; 2791; 3478; 3555; 3577; 3605; 3736; 3826; 3893; 4074; 4349; 4357; 4449; 4923; 5113; 5139; 5286
StrI	C!TCGAG	1	613
StsI	GGATGNNNNNNNNNN!	5	1313; 3440; 3897; 3922; 4376
StsI	!NNNNNNNNNNNNNNNNNNCATCC	7	849; 1395; 1583; 1671; 1728; 1883; 3244
StuI	AGG!CCT	2	1942; 3393
StyI	C!CWGGG	7	360; 650; 1514; 3301; 3394; 4004; 4409
StyD4I	!CCNGG	28	88; 281; 807; 839; 1046; 1071; 1361; 1481; 1493; 1688; 1736; 1832; 1847; 1976; 2085; 3106; 3161; 3178; 3574; 3734; 3957; 4347; 4536; 4639; 5111; 5329; 5342; 5463
SwaI	ATTT!AAAT	0	
TaaI	ACN!GT	15	76; 198; 269; 543; 581; 1296; 1572; 2663; 3952; 4068; 4176; 4499; 4990; 5460; 5531
TaiI	ACGT!	19	125; 137; 178; 261; 342; 447; 1055; 1135; 1320; 1874; 2150; 2635; 2647; 2690; 2800; 3691; 3878; 4659; 4792
TaqI	T!CGA	18	614; 627; 640; 1349; 1655; 1682; 2150; 2721; 3412; 3685; 3841; 3865; 3901; 4063; 4254; 4299; 4554; 5392
TaqII	GACCGANNNNNNNNNNN!	3	2592; 3609; 4277
TaqII	!NNNNNNNNNNTCGGTC	1	4521
TaqII	CACCCANNNNNNNNNNN!	2	1645; 1750
TaqII	!NNNNNNNNNNTGGGTG	4	172; 895; 3476; 4068
TasI	!AATT	16	18; 629; 934; 949; 960; 988; 1253; 2322; 2386; 2464; 2490; 2501; 3148; 3220; 3312; 4730
TatI	W!GTACW	6	217; 297; 330; 381; 665; 1556
TauI	GCSG!C	21	1041; 1235; 1664; 1976; 2218; 2221; 2892; 2906; 3344; 3483; 3546; 3641; 3806; 3809; 4048; 4144; 4185; 4313; 4667; 5295; 5450
TfiI	G!AWTC	9	1209; 1433; 1643; 2120; 4057; 4191; 4301; 4338; 5516
THI	C!TCGAG	1	613
TruII	T!TAA	18	7; 983; 1532; 1757; 2273; 2334; 2455; 2476; 2487; 2499; 2510; 2527; 2625; 2896; 4715; 4729; 4734; 4786
Tru9I	T!TAA	18	7; 983; 1532; 1757; 2273; 2334; 2455; 2476; 2487; 2499; 2510; 2527; 2625; 2896; 4715; 4729; 4734; 4786
TscAI	CASTGNN!	8	690; 982; 1301; 2418; 3701; 4811; 5082; 5095
TseI	G!CWGC	19	775; 882; 889; 1712; 1856; 2154; 2348; 2867; 3532; 3633; 3675; 3716; 3809; 4196; 4649; 4875; 5081; 5084; 5149
TsoI	TARCCANNNNNNNNNNN!	2	2544; 2891
TsoI	!NNNNNNNNNNTGGYTA	3	1681; 2349; 4101
Tsp45I	!GTSAC	7	678; 1318; 1342; 1794; 2861; 3692; 3998
Tsp509I	!AATT	16	18; 629; 934; 949; 960; 988; 1253; 2322; 2386; 2464; 2490; 2501; 3148; 3220; 3312; 4730
TspDTI	ATGAANNNNNNNNNNN!	6	872; 1385; 1564; 2330; 3631; 4335
TspDTI	!NNNNNNNNNNTTCAT	7	26; 780; 1692; 1713; 4049; 4505; 4712
TspEI	!AATT	16	18; 629; 934; 949; 960; 988; 1253; 2322; 2386; 2464; 2490; 2501; 3148; 3220; 3312; 4730
TspGWI	ACGGANNNNNNNNNNN!	1	4447
TspGWI	!NNNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	0	
TspRI	CASTGNN!	8	690; 982; 1301; 2418; 3701; 4811; 5082; 5095
TstI	CACNNNNNNTCCNNNNNNNNNNNN!	1	1136

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TstI	!NNNNNNNGGANNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNTCC	1	1104
Tth111I	GACN!NNGTC	1	3690
Tth111II	CAARCANNNNNNNNNN!	2	902; 4899
Tth111III	!NNNNNNNNNTGYTTG	4	700; 4007; 4867; 4906
UnbI	!GGNCC	15	82; 275; 1043; 1143; 1184; 1662; 1905; 1997; 2018; 2678; 4087; 4532; 4578; 4636; 4669
Van91I	CCANNNN!NTGG	2	792; 1275
Vha464I	C!TTAAG	1	2454
VneI	G!TGCAC	3	817; 1593; 5176
VpaK11AI	!GGWCC	2	4087; 4532
VpaK11BI	G!GWCC	2	4088; 4533
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	1	1070
XapI	R!AATTY	7	629; 949; 988; 1253; 2386; 2490; 2501
XbaI	T!CTAGA	1	2226
XceI	RCATG!Y	7	801; 1158; 1545; 3142; 3214; 3977; 5494
XcmI	CCANNNNN!NNNTGG	0	
XhoI	C!TCGAG	1	613
XhoII	R!GATCY	12	585; 609; 1082; 1497; 2053; 3743; 3989; 4381; 4740; 4752; 4838; 4849
XmaI	C!CCGGG	0	
XmaJI	C!CTAGG	2	3394; 4409
XmiI	GT!MKAC	2	640; 2093
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	10	592; 850; 2192; 2227; 2421; 2839; 3395; 4410; 4744; 4997
ZraI	GAC!GTC	5	123; 176; 259; 445; 1133
ZrmI	AGT!ACT	0	
Zsp2I	ATGCA!T	3	3144; 3216; 5547