

pHcRed-Tandem-N1 vector

Table of restriction sites

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
AanI	TTA!TAA	2	2206; 2411
AarI	CACCTGCNNNN!	0	
AarI	!NNNNNNNNGCAGGTG	0	
AasI	GACNNNN!NNGTC	3	2494; 3450; 5239
AatI	AGG!CCT	1	3244
AatII	GACGT!C	4	125; 178; 261; 447
AbsI	CC!TCGAGG	0	
AccI	GT!MKAC	1	640
AccII	CG!CG	18	60; 651; 1232; 1928; 2072; 2347; 2723; 2743; 2767; 2798; 3489; 3790; 4228; 4312; 4375; 4444; 4717; 5298
AccIII	T!CCGGA	0	
Acc16I	TGC!GCA	3	709; 1405; 3525
Acc36I	ACCTGCNNNN!	4	1352; 2048; 3691; 4141
Acc36I	!NNNNNNNNGCAGGT	1	3310
Acc65I	G!GTACC	1	645
AccB1I	G!GYRCC	15	465; 645; 730; 790; 823; 1048; 1181; 1426; 1486; 1519; 1744; 1877; 2576; 3422; 3457
AccB7I	CCANNNN!NTGG	0	
AccBSI	CCG!CTC	2	2847; 4036
AccBSI	GAG!CGG	6	686; 1091; 1382; 1787; 2683; 4090
AceIII	CAGCTCNNNNNNN!	1	2379
AceIII	!NNNNNNNNGAGCTG	3	552; 1297; 1993
Acil	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 649; 899; 989; 1061; 1595; 1685; 1757; 2070; 2738; 2741; 2755; 2845; 3093; 3105; 3114; 3126; 3136; 3147; 3193; 3332; 3395; 3897; 3942; 4008; 4034; 4159; 4162; 4310; 4442; 4749; 4893; 5389
Acil	G!CGG	36	370; 403; 528; 651; 686; 977; 1091; 1094; 1145; 1284; 1382; 1673; 1787; 1790; 1841; 1980; 2683; 2710; 2798; 2908; 3489; 3553; 3654; 3657; 3937; 3992; 4090; 4228; 4375; 4515; 4758; 5003; 5124; 5143; 5270; 5298
AcII	AA!CGTT	0	
AcIWI	GGATCNNNN!	8	668; 3291; 3602; 3848; 4240; 4599; 4697; 4783
AcIWI	!NNNNNGATCC	8	580; 655; 900; 1596; 3667; 4211; 4598; 4695
AcoI	Y!GGCCR	8	741; 1146; 1437; 1842; 3329; 3503; 3894; 3921
AcsI	R!AATTY	4	629; 2237; 2341; 2352
AcuI	CTGAAGNNNNNNNNNNNNNNN!	6	715; 1186; 1411; 1882; 3569; 4001
AcuI	!NNNNNNNNNNNNNNCTTCAG	1	4799
AcvI	CAC!GTG	2	813; 1509
AcyI	GR!CGYC	9	122; 175; 258; 444; 824; 1520; 3423; 4125; 4204
AdeI	CACNNN!GTG	1	2539
Afal	GT!AC	20	219; 244; 299; 332; 383; 540; 647; 721; 871; 1123; 1303; 1315; 1336; 1417; 1567; 1819; 1999; 2011; 2032; 3729
Afel	AGC!GCT	1	596
AfiI	CCNNNNN!NNGG	30	49; 696; 787; 1066; 1132; 1170; 1211; 1268; 1392; 1483; 1762; 1828; 1866; 1907; 1964; 2435; 2761; 3153; 3404; 3948; 4229; 4261; 4393; 4428; 4478; 4510; 4863; 5142; 5308; 5326
AfII	C!TTAAG	1	2305
AfIII	A!CRYGT	1	5341
AgeI	A!CCGGT	1	666
AgsI	TTS!AA	9	753; 921; 1449; 1617; 2834; 2878; 2888; 3301; 4877
AhdI	GACNNN!NNGTC	0	
AhI	A!CTAGT	0	
AjiI	CAC!GTC	0	
AjiI	GAC!GTG	0	
AjnI	!CCWGG	19	88; 281; 851; 946; 995; 1007; 1547; 1642; 1691; 1703; 2957; 3012; 3029; 3808; 4387; 4490; 5180; 5193; 5314
AjuI	GAANNNNNNTTGGNNNNNNNNNN!	0	

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AjuI	!NNNNNCCAANNNNNNTTC	0	
AjuI	CCAANNNNNNTTCNNNNNNNNNNNN!	0	
AjuI	!NNNNNNGAANNNNNNTTGG	0	
AleI	CACNN!NNGTG	3	679; 1114; 1810
AlfI	GCANNNNTGCGNNNNNNNNNN!	2	2997; 3069
AlfI	!NNNNNNNNNGCANNNNNTGCG	2	2963; 3035
AloI	GAACNNNNNTCCNNNNNNNNNN!	1	2505
AloI	!NNNNNNGGANNNNNNGTTC	0	
AloI	GGANNNNNNGTTCNNNNNNNNNN!	0	
AloI	!NNNNNNGAACNNNNNTCC	1	2473
AluI	AG!CT	20	566; 618; 624; 929; 1208; 1311; 1625; 1904; 2007; 2202; 2369; 2626; 2921; 3209; 3529; 3987; 4784; 5041; 5087; 5177
AluBI	AG!CT	20	566; 618; 624; 929; 1208; 1311; 1625; 1904; 2007; 2202; 2369; 2626; 2921; 3209; 3529; 3987; 4784; 5041; 5087; 5177
AlwI	GGATCNNNN!	8	668; 3291; 3602; 3848; 4240; 4599; 4697; 4783
AlwI	!NNNNNGATCC	8	580; 655; 900; 1596; 3667; 4211; 4598; 4695
Alw21I	GWGCW!C	8	620; 893; 1046; 1589; 1742; 3536; 3726; 5031
Alw26I	GTCTCN!	1	434
Alw26I	!NNNNNGAGAC	4	2847; 3265; 4284; 4412
Alw44I	G!TGCAC	5	889; 1042; 1585; 1738; 5027
AlwNI	CAGNN!CTG	4	1281; 1977; 4524; 4932
Ama87I	C!YCGRG	10	613; 656; 934; 1126; 1348; 1369; 1630; 1822; 2044; 2063
Aor13HI	T!CCGGA	0	
Aor51HI	AGC!GCT	1	596
ApaI	GGGCC!C	1	657
ApaBI	GCANNNNN!TGC	3	2991; 3063; 4525
ApaLI	G!TGCAC	5	889; 1042; 1585; 1738; 5027
ApeKI	G!CWGC	19	863; 875; 1281; 1559; 1571; 1977; 2199; 2718; 3383; 3484; 3526; 3567; 3660; 4047; 4500; 4726; 4932; 4935; 5000
ApoI	R!AATTY	4	629; 2237; 2341; 2352
ApyPI	ATCGACNNNNNNNNNNNNNNNNNN!	1	3938
ApyPI	!NNNNNNNNNNNNNNNNNGTCGAT	3	3732; 4385; 5223
AquII	GCCGNACNNNNNNNNNNNNNNNNNN!	1	3822
AquII	!NNNNNNNNNNNNNNNNNGTNCGGC	4	851; 1124; 1547; 1820
AquIII	GAGGAGNNNNNNNNNNNNNNNNNN!	1	3251
AquIII	!NNNNNNNNNNNNNNNNNNCTCCTC	0	
AquIV	GRGGAAGNNNNNNNNNNNNNNNNNN!	0	
AquIV	!NNNNNNNNNNNNNNNNNCTCCYC	5	912; 1038; 1608; 1734; 3993
ArsI	GACNNNNNTTYGNNNNNNNNNN!	2	1320; 2016
ArsI	!NNNNNCRANNNNNNGTC	0	
ArsI	CRAANNNNNNGTCNNNNNNNNNN!	0	
ArsI	!NNNNNNNGACNNNNNTTYG	2	1288; 1984
AscI	GG!CGCGCC	0	
AseI	AT!TAAT	1	7
Asi256I	G!ATC	27	586; 610; 661; 906; 1026; 1188; 1364; 1602; 1722; 1884; 2081; 3261; 3265; 3284; 3595; 3673; 3754; 3763; 3841; 4217; 4233; 4592; 4604; 4682; 4690; 4701; 4776
AsiGI	A!CCGGT	1	666
AsiSI	GCGAT!CGC	0	
AspI	GACN!NNGTC	1	3541
Asp700I	GAANN!NNTTC	0	
Asp718I	G!GTACC	1	645
AspA2I	C!CTAGG	2	3245; 4260
AspEI	GACNNN!NNGTC	0	
AspLEI	GCG!C	29	597; 710; 826; 1232; 1234; 1406; 1522; 1928; 1930; 2689; 2697; 2723; 2745; 2754; 2767; 2798; 3417; 3425; 3489; 3526; 3792; 4052; 4228; 4314; 4717; 4826; 5000; 5100; 5167
AspS9I	G!GNCC	19	83; 276; 654; 855; 881; 1069; 1161; 1329; 1551; 1577; 1765; 1857; 2025; 2530; 3939; 4384; 4430; 4488; 4521
AssI	AGT!ACT	2	1303; 1999
AsuII	TT!CGAA	2	627; 4105
AsuC2I	CC!SGG	12	657; 658; 1247; 1332; 1370; 1371; 1943; 2028; 3427; 3587; 4200; 4964
AsuHPI	GGTGANNNNNNN!	7	376; 693; 1047; 1389; 1743; 4494; 4610
AsuHPI	!NNNNNNNTCACC	6	936; 1251; 1632; 1947; 2540; 3601
AsuNHI	G!CTAGC	1	591

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AvaI	C!YCGRG	10	613; 656; 934; 1126; 1348; 1369; 1630; 1822; 2044; 2063
AvaII	G!GWCC	4	881; 1577; 3939; 4384
AviII	TGC!GCA	3	709; 1405; 3525
AvrII	C!CTAGG	2	3245; 4260
AxyI	CC!TNAGG	2	2903; 4535
BaeI	ACNNNNGTAYCNNNNNNNNNN!	0	
BaeI	!NNNNNNNGRTACNNNNNGT	0	
BaeI	GRTACNNNNGTNNNNNNNNNNNN!	0	
BaeI	!NNNNNNNNNNACNNNNGTAYC	0	
BaeGI	GKGCMI!C	10	657; 733; 893; 1046; 1429; 1589; 1742; 3369; 3462; 5031
BalI	TGG!CCA	1	3505
BamHI	G!GATCC	1	660
BanI	G!GYRCC	15	465; 645; 730; 790; 823; 1048; 1181; 1426; 1486; 1519; 1744; 1877; 2576; 3422; 3457
BanII	GRGCY!C	7	620; 657; 1106; 1802; 2614; 3788; 4498
BanIII	AT!CGAT	1	3263
BarI	GAAGNNNNNTACNNNNNNNNNN!	2	1317; 2013
BarI	!NNNNNNNGTANNNNNCTTC	0	
BarI	GTANNNNNCTTCNNNNNNNNNN!	0	
BarI	!NNNNNNNGAAGNNNNNTAC	2	1285; 1981
BasI	CCANNN!NTGG	0	
BauI	C!ACGAG	2	4141; 5168
BauI	C!TCGTG	1	4015
BbeI	GGCGC!C	3	827; 1523; 3426
Bbr7I	GAAGACNNNNNN!	0	
Bbr7I	!NNNNNNNNNNNGTCTTC	0	
BbrPI	CAC!GTG	2	813; 1509
BbsI	GAAGACNN!	0	
BbsI	!NNNNNNGTCTTC	0	
BbuI	GCATG!C	3	2993; 3065; 3828
BbvI	GCAGCNNNNNNNN!	8	887; 1583; 2211; 3496; 3538; 4059; 4512; 5012
BbvI	!NNNNNNNNNNNGCTGC	10	850; 1268; 1546; 1964; 2705; 3370; 3554; 3647; 4713; 4919
Bbv12I	GWGCW!C	8	620; 893; 1046; 1589; 1742; 3536; 3726; 5031
BbvCI	CC!TCAGC	0	
BbvCI	GC!TGAGG	0	
BccI	CCATCNNNN!	4	2553; 3117; 3643; 4145
BccI	!NNNNNGATGG	6	1152; 1368; 1848; 2521; 3301; 3729
BceAI	ACGGCNNNNNNNNNN!	16	756; 789; 888; 990; 1062; 1083; 1149; 1452; 1485; 1584; 1686; 1758; 1779; 1845; 3849; 4336
BceAI	!NNNNNNNNNNNGCCGT	5	1210; 1906; 2564; 3382; 4841
Bcefl	ACGGCNNNNNNNNNN!	16	756; 789; 888; 990; 1062; 1083; 1149; 1452; 1485; 1584; 1686; 1758; 1779; 1845; 3849; 4336
Bcefl	!NNNNNNNNNNNGCCGT	5	1211; 1907; 2565; 3383; 4842
BcgI	CGANNNNNNTGCNNNNNNNNNN!	0	
BcgI	!NNNNNNNNNNNGCANNNNNTCG	4	765; 867; 1461; 1563
BcgI	GCANNNNNNTGCNNNNNNNNNN!	4	799; 901; 1495; 1597
BcgI	!NNNNNNNNNNNGCANNNNNTGC	0	
BciVI	GTATCCNNNNNN!	3	2852; 3642; 5143
BciVI	!NNNNNGGATAC	0	
BclI	T!GATCA	0	
BcnI	CC!SGG	12	657; 658; 1247; 1332; 1370; 1371; 1943; 2028; 3427; 3587; 4200; 4964
BcuI	A!CTAGT	0	
BdaI	TGANNNNNNTCANNNNNNNNNN!	1	5276
BdaI	!NNNNNNNNNNNTGANNNNNNTCA	1	5242
BfaI	C!TAG	8	592; 2078; 2272; 2690; 3246; 4261; 4595; 4848
BfiI	ACTGGGNNNNN!	1	3372
BfiI	!NNNNCCCAGT	2	289; 3124
BfmI	C!TRYAG	4	634; 2758; 4885; 5076
BfoI	RGCGC!Y	7	598; 827; 1523; 2690; 2698; 3426; 5101
BfrI	C!TTAAG	1	2305
BfuI	GTATCCNNNNNN!	3	2852; 3642; 5143
BfuI	!NNNNNGGATAC	0	
BfuAI	ACCTGCNNNN!	4	1352; 2048; 3691; 4141
BfuAI	!NNNNNNNNNGCAGGT	1	3310

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BfuCI	!GATC	27	585; 609; 660; 905; 1025; 1187; 1363; 1601; 1721; 1883; 2080; 3260; 3264; 3283; 3594; 3672; 3753; 3762; 3840; 4216; 4232; 4591; 4603; 4681; 4689; 4700; 4775
BglI	GCCNNNN!NGGC	8	90; 212; 283; 1013; 1327; 1709; 2023; 3198
BglII	A!GATCT	2	609; 1363
BisI	GC!NGC	45	687; 864; 876; 978; 1092; 1095; 1146; 1282; 1383; 1560; 1572; 1674; 1788; 1791; 1842; 1978; 2070; 2200; 2719; 2741; 2755; 3193; 3332; 3384; 3395; 3485; 3490; 3527; 3568; 3655; 3658; 3661; 3897; 3993; 4034; 4048; 4162; 4501; 4516; 4727; 4933; 4936; 5001; 5144; 5299
BlnI	C!CTAGG	2	3245; 4260
BlpI	GC!TNAGC	0	
BlsI	GCN!GC	45	688; 865; 877; 979; 1093; 1096; 1147; 1283; 1384; 1561; 1573; 1675; 1789; 1792; 1843; 1979; 2071; 2201; 2720; 2742; 2756; 3194; 3333; 3385; 3396; 3486; 3491; 3528; 3569; 3656; 3659; 3662; 3898; 3994; 4035; 4049; 4163; 4502; 4517; 4728; 4934; 4937; 5002; 5145; 5300
BmcAI	AGT!ACT	2	1303; 1999
Bme18I	G!GWCC	4	881; 1577; 3939; 4384
Bme1390I	CC!NGG	31	90; 283; 657; 658; 853; 948; 997; 1009; 1247; 1332; 1370; 1371; 1549; 1644; 1693; 1705; 1943; 2028; 2959; 3014; 3031; 3427; 3587; 3810; 4200; 4389; 4492; 4964; 5182; 5195; 5316
BmeRI	GACNNN!NNGTC	0	
BmeT110I	C!YCGRG	10	613; 656; 934; 1126; 1348; 1369; 1630; 1822; 2044; 2063
BmgBI	CAC!GTC	0	
BmgBI	GAC!GTG	0	
BmgT120I	GG!NCC	19	84; 277; 655; 856; 882; 1070; 1162; 1330; 1552; 1578; 1766; 1858; 2026; 2531; 3940; 4385; 4431; 4489; 4522
BmiI	GGN!NCC	35	467; 647; 655; 662; 732; 792; 825; 857; 1050; 1071; 1103; 1183; 1273; 1428; 1488; 1521; 1553; 1746; 1767; 1799; 1879; 1969; 2578; 2599; 2611; 2802; 2963; 3035; 3424; 3459; 4307; 4386; 4431; 5274; 5313
BmrI	ACTGGGNNNNN!	1	3372
BmrI	!NNNNCCCAGT	2	289; 3124
BmrFI	CC!NGG	31	90; 283; 657; 658; 853; 948; 997; 1009; 1247; 1332; 1370; 1371; 1549; 1644; 1693; 1705; 1943; 2028; 2959; 3014; 3031; 3427; 3587; 3810; 4200; 4389; 4492; 4964; 5182; 5195; 5316
BmsI	GCATCNNNNN!	10	719; 989; 1415; 1685; 2239; 3002; 3074; 3722; 3786; 4061
BmsI	!NNNNNNNNNGATGC	7	357; 1268; 1964; 3381; 3636; 3852; 5244
BmtI	GCTAG!C	1	595
BmuI	ACTGGGNNNNN!	1	3372
BmuI	!NNNNCCCAGT	2	289; 3124
BoxI	GACNN!NNGTC	0	
BpiI	GAAGACNN!	0	
BpiI	!NNNNNNGTCTTC	0	
BpI	GAGNNNNNCTCNNNNNNNNNNNNN!	2	3212; 4111
BpI	!NNNNNNNNNGAGNNNNNCTC	2	3180; 4079
BpmI	CTGGAGNNNNNNNNNNNNNNNNN!	3	1030; 1726; 4263
BpmI	!NNNNNNNNNNNNNNNCTCCAG	3	1258; 1954; 4206
Bpu10I	CC!TNAGC	0	
Bpu10I	GC!TNAGG	0	
Bpu14I	TT!CGAA	2	627; 4105
Bpu1102I	GC!TNAGC	0	
BpuAI	GAAGACNN!	0	
BpuAI	!NNNNNNGTCTTC	0	
BpuEI	CTTGAGNNNNNNNNNNNNNNNNN!	2	4717; 5256
BpuEI	!NNNNNNNNNNNNNNNCTCAAG	3	604; 3799; 4958
BpuMI	CC!SGG	12	657; 658; 1247; 1332; 1370; 1371; 1943; 2028; 3427; 3587; 4200; 4964
BpvUI	CGAT!CG	0	
BsaI	GGTCTCN!	0	
BsaI	!NNNNNGAGACC	1	4412
Bsa29I	AT!CGAT	1	3263
BsaAI	YAC!GTR	5	340; 813; 1509; 2539; 3727
BsaBI	GATNN!NNATC	2	2085; 3282
BsaHI	GR!CGYC	9	122; 175; 258; 444; 824; 1520; 3423; 4125; 4204

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BsaJI	C!CNGGG	27	360; 649; 656; 677; 818; 935; 947; 1112; 1369; 1514; 1631; 1643; 1808; 2957; 3029; 3152; 3187; 3196; 3245; 3586; 3855; 4260; 4387; 4388; 4490; 4491; 5181
BsaMI	GAATGCN!	1	2174
BsaMI	G!CATTC	1	2267
BsaWI	W!CCGGW	8	600; 666; 1211; 1907; 3454; 4298; 4988; 5135
BsaXI	ACNNNNNCTCCNNNNNNNNNN!	1	2503
BsaXI	!NNNNNNNGGAGNNNNNGT	0	
BsaXI	GGAGNNNNNGTNNNNNNNNNN!	0	
BsaXI	!NNNNNNNNNACNNNNNCTCC	1	2473
BsbI	CAACACNNNNNNNNNNNNNNNNNN!	0	
BsbI	!NNNNNNNNNNNNNNNNNNNGTGTG	2	2424; 4331
Bsc4I	CCNNNNN!NNGG	30	49; 696; 787; 1066; 1132; 1170; 1211; 1268; 1392; 1483; 1762; 1828; 1866; 1907; 1964; 2435; 2761; 3153; 3404; 3948; 4229; 4261; 4393; 4428; 4478; 4510; 4863; 5142; 5308; 5326
BscAI	GCATCNNNN!	10	718; 988; 1414; 1684; 2238; 3001; 3073; 3721; 3785; 4060
BscAI	!NNNNNNGATGC	7	360; 1271; 1967; 3384; 3639; 3855; 5247
BseI	ACTGGN!	3	3367; 3568; 4814
BseI	C!CAGT	5	295; 2452; 3130; 4926; 4939
BseI	GATNN!NNATC	2	2085; 3282
Bse2II	CC!TNAGG	2	2903; 4535
Bse118I	R!CCGGY	9	666; 787; 1178; 1483; 1874; 2640; 3742; 3923; 4206
BseAI	T!CCGGA	0	
BseBI	CC!WGG	19	90; 283; 853; 948; 997; 1009; 1549; 1644; 1693; 1705; 2959; 3014; 3031; 3810; 4389; 4492; 5182; 5195; 5316
BseCI	AT!CGAT	1	3263
BseDI	C!CNGGG	27	360; 649; 656; 677; 818; 935; 947; 1112; 1369; 1514; 1631; 1643; 1808; 2957; 3029; 3152; 3187; 3196; 3245; 3586; 3855; 4260; 4387; 4388; 4490; 4491; 5181
Bse3DI	GCAATGNN!	1	3656
Bse3DI	!CATTGC	0	
BseGI	GGATGNN!	5	1379; 3283; 3740; 3765; 4219
BseGI	!CATCC	7	848; 980; 1265; 1544; 1676; 1961; 3109
BseJI	GATNN!NNATC	2	2085; 3282
BseLI	CCNNNNN!NNGG	30	49; 696; 787; 1066; 1132; 1170; 1211; 1268; 1392; 1483; 1762; 1828; 1866; 1907; 1964; 2435; 2761; 3153; 3404; 3948; 4229; 4261; 4393; 4428; 4478; 4510; 4863; 5142; 5308; 5326
BseMI	GCAATGNN!	1	3656
BseMI	!CATTGC	0	
BseMII	CTCAGNNNNNNNNNN!	2	620; 4549
BseMII	!NNNNNNNCTGAG	5	2894; 3196; 4077; 4649; 5058
BseNI	ACTGGN!	3	3367; 3568; 4814
BseNI	C!CAGT	5	295; 2452; 3130; 4926; 4939
BsePI	G!CGCGC	2	1230; 1926
BseRI	GAGGAGNNNNNNNNNN!	1	3241
BseRI	!NNNNNNNCTCCTC	0	
BseSI	GKGCMI!C	10	657; 733; 893; 1046; 1429; 1589; 1742; 3369; 3462; 5031
BseXI	GCAGCNNNNNNNN!	8	887; 1583; 2211; 3496; 3538; 4059; 4512; 5012
BseXI	!NNNNNNNNNNNGCTGC	10	850; 1268; 1546; 1964; 2705; 3370; 3554; 3647; 4713; 4919
BseX3I	C!GGCCG	3	1146; 1842; 3329
BseYI	C!CCAGC	5	1105; 1801; 2966; 3038; 5037
BseYI	G!CTGGG	3	1097; 1793; 3927
BsgI	GTGCAGNNNNNNNNNNNNNNNN!	0	
BsgI	!NNNNNNNNNNNNNCTGCAC	0	
Bsh1236I	CG!CG	18	60; 651; 1232; 1928; 2072; 2347; 2723; 2743; 2767; 2798; 3489; 3790; 4228; 4312; 4375; 4444; 4717; 5298
Bsh1285I	CGRY!CG	7	671; 1149; 1179; 1845; 1875; 3332; 5007
BshFI	GG!CC	41	84; 277; 655; 689; 743; 856; 1070; 1148; 1162; 1225; 1321; 1330; 1357; 1385; 1439; 1552; 1766; 1844; 1858; 1921; 2017; 2026; 2053; 2069; 2389; 2531; 3186; 3192; 3201; 3244; 3331; 3505; 3896; 3923; 4432; 4489; 4522; 4867; 5301; 5319; 5330
BshNI	G!GYRCC	15	465; 645; 730; 790; 823; 1048; 1181; 1426; 1486; 1519; 1744; 1877; 2576; 3422; 3457
BshTI	A!CCGGT	1	666
BshVI	AT!CGAT	1	3263
BsiEI	CGRY!CG	7	671; 1149; 1179; 1845; 1875; 3332; 5007

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BsiHKAI	GWGCW!C	8	620; 893; 1046; 1589; 1742; 3536; 3726; 5031
BsiHKCI	C!YCGRG	10	613; 656; 934; 1126; 1348; 1369; 1630; 1822; 2044; 2063
BsiSI	C!CGG	34	601; 657; 667; 788; 1149; 1179; 1212; 1247; 1269; 1332; 1370; 1484; 1845; 1875; 1908; 1943; 1965; 2028; 2641; 3328; 3405; 3427; 3455; 3586; 3676; 3743; 3924; 4199; 4207; 4299; 4773; 4963; 4989; 5136
BsiWI	C!GTACG	0	
BsII	CCNNNNN!NNGG	30	49; 696; 787; 1066; 1132; 1170; 1211; 1268; 1392; 1483; 1762; 1828; 1866; 1907; 1964; 2435; 2761; 3153; 3404; 3948; 4229; 4261; 4393; 4428; 4478; 4510; 4863; 5142; 5308; 5326
BsIFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3574; 4106; 4215
BsIFI	!NNNNNNNNNNNNNGTCCC	4	2939; 3011; 3075; 4370
BsmI	GAATGCN!	1	2174
BsmI	G!CATTC	1	2267
BsmAI	GTCTCN!	1	434
BsmAI	!NNNNNGAGAC	4	2847; 3265; 4284; 4412
BsmBI	CGTCTCN!	0	
BsmBI	!NNNNNGAGACG	0	
BsmFI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3574; 4106; 4215
BsmFI	!NNNNNNNNNNNNNGTCCC	4	2939; 3011; 3075; 4370
BsnI	GG!CC	41	84; 277; 655; 689; 743; 856; 1070; 1148; 1162; 1225; 1321; 1330; 1357; 1385; 1439; 1552; 1766; 1844; 1858; 1921; 2017; 2026; 2053; 2069; 2389; 2531; 3186; 3192; 3201; 3244; 3331; 3505; 3896; 3923; 4432; 4489; 4522; 4867; 5301; 5319; 5330
Bso31I	GGTCTCN!	0	
Bso31I	!NNNNNGAGACC	1	4412
BsoBI	C!YCGRG	10	613; 656; 934; 1126; 1348; 1369; 1630; 1822; 2044; 2063
Bsp13I	T!CCGGA	0	
Bsp19I	C!CATGG	4	360; 677; 3152; 3855
Bsp24I	GACNNNNNTGGNNNNNNNNNNNN!	2	289; 4226
Bsp24I	!NNNNNNNCCANNNNNNGTC	2	4647; 4825
Bsp24I	CCANNNNNNGTCNNNNNNNNNNNN!	2	4679; 4857
Bsp24I	!NNNNNNNNGACNNNNNNNTGG	2	257; 4194
Bsp68I	TCG!CGA	0	
Bsp119I	TT!CGAA	2	627; 4105
Bsp120I	G!GGCCC	1	653
Bsp143I	!GATC	27	585; 609; 660; 905; 1025; 1187; 1363; 1601; 1721; 1883; 2080; 3260; 3264; 3283; 3594; 3672; 3753; 3762; 3840; 4216; 4232; 4591; 4603; 4681; 4689; 4700; 4775
Bsp1286I	GDGCH!C	18	620; 657; 733; 893; 1046; 1106; 1429; 1589; 1742; 1802; 2614; 3369; 3462; 3536; 3726; 3788; 4498; 5031
Bsp1407I	T!GTACA	2	719; 1415
Bsp1720I	GC!TNAGC	0	
BspACI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 649; 899; 989; 1061; 1595; 1685; 1757; 2070; 2738; 2741; 2755; 2845; 3093; 3105; 3114; 3126; 3136; 3147; 3193; 3332; 3395; 3897; 3942; 4008; 4034; 4159; 4162; 4310; 4442; 4749; 4893; 5389
BspACI	G!CGG	36	370; 403; 528; 651; 686; 977; 1091; 1094; 1145; 1284; 1382; 1673; 1787; 1790; 1841; 1980; 2683; 2710; 2798; 2908; 3489; 3553; 3654; 3657; 3937; 3992; 4090; 4228; 4375; 4515; 4758; 5003; 5124; 5143; 5270; 5298
BspCNI	CTCAGNNNNNNNNNN!	2	619; 4548
BspCNI	!NNNNNNNCTGAG	5	2895; 3197; 4078; 4650; 5059
BspDI	AT!CGAT	1	3263
BspD6I	GACTCNNNN!	6	418; 612; 2082; 2496; 4102; 4979
BspD6I	!NNNNNNGAGTC	2	2459; 2891
BspEI	T!CCGGA	0	
BspFNI	CG!CG	18	60; 651; 1232; 1928; 2072; 2347; 2723; 2743; 2767; 2798; 3489; 3790; 4228; 4312; 4375; 4444; 4717; 5298
BspHI	T!CATGA	2	2849; 4621
BspLI	GGN!NCC	35	467; 647; 655; 662; 732; 792; 825; 857; 1050; 1071; 1103; 1183; 1273; 1428; 1488; 1521; 1553; 1746; 1767; 1799; 1879; 1969; 2578; 2599; 2611; 2802; 2963; 3035; 3424; 3459; 4307; 4386; 4431; 5274; 5313
BspMI	ACCTGCNNNN!	4	1352; 2048; 3691; 4141
BspMI	!NNNNNNNNGCAGGT	1	3310
BspOI	GCTAG!C	1	595

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BspPI	GGATCNNNN!	8	668; 3291; 3602; 3848; 4240; 4599; 4697; 4783
BspPI	!NNNNNGATCC	8	580; 655; 900; 1596; 3667; 4211; 4598; 4695
BspQI	GCTCTCN!	0	
BspQI	!NNNNGAAGAGC	2	3767; 3977
BspTI	C!TTAAG	1	2305
BspT104I	TT!CGAA	2	627; 4105
BspT107I	G!GYRCC	15	465; 645; 730; 790; 823; 1048; 1181; 1426; 1486; 1519; 1744; 1877; 2576; 3422; 3457
BspTNI	GGTCTCN!	0	
BspTNI	!NNNNNGAGACC	1	4412
BsrI	ACTGGN!	3	3367; 3568; 4814
BsrI	C!CAGT	5	295; 2452; 3130; 4926; 4939
BsrBI	CCG!CTC	2	2847; 4036
BsrBI	GAG!CGG	6	686; 1091; 1382; 1787; 2683; 4090
BsrDI	GCAATGNN!	1	3656
BsrDI	!CATTGC	0	
BsrFI	R!CCGGY	9	666; 787; 1178; 1483; 1874; 2640; 3742; 3923; 4206
BsrGI	T!GTACA	2	719; 1415
BsrSI	ACTGGN!	3	3367; 3568; 4814
BsrSI	C!CAGT	5	295; 2452; 3130; 4926; 4939
BssAI	R!CCGGY	9	666; 787; 1178; 1483; 1874; 2640; 3742; 3923; 4206
BssECI	C!CNNGG	27	360; 649; 656; 677; 818; 935; 947; 1112; 1369; 1514; 1631; 1643; 1808; 2957; 3029; 3152; 3187; 3196; 3245; 3586; 3855; 4260; 4387; 4388; 4490; 4491; 5181
BssHII	G!CGCGC	2	1230; 1926
BssKI	!CCNGG	31	88; 281; 655; 656; 851; 946; 995; 1007; 1245; 1330; 1368; 1369; 1547; 1642; 1691; 1703; 1941; 2026; 2957; 3012; 3029; 3425; 3585; 3808; 4198; 4387; 4490; 4962; 5180; 5193; 5314
BssMI	!GATC	27	585; 609; 660; 905; 1025; 1187; 1363; 1601; 1721; 1883; 2080; 3260; 3264; 3283; 3594; 3672; 3753; 3762; 3840; 4216; 4232; 4591; 4603; 4681; 4689; 4700; 4775
BssNI	GR!CGYC	9	122; 175; 258; 444; 824; 1520; 3423; 4125; 4204
BssNAI	GTA!TAC	0	
BssSI	C!ACGAG	2	4141; 5168
BssSI	C!TCGTG	1	4015
BssTII	C!CWWGG	6	360; 677; 3152; 3245; 3855; 4260
Bst6I	CTCTTCN!	0	
Bst6I	!NNNNGAAGAG	3	2890; 3767; 3977
Bst98I	C!TTAAG	1	2305
Bst1107I	GTA!TAC	0	
BstACI	GR!CGYC	9	122; 175; 258; 444; 824; 1520; 3423; 4125; 4204
BstAFI	C!TTAAG	1	2305
BstAPI	GCANNNN!NTGC	3	2990; 3062; 4524
BstAUI	T!GTACA	2	719; 1415
BstBI	TT!CGAA	2	627; 4105
Bst2BI	C!ACGAG	2	4141; 5168
Bst2BI	C!TCGTG	1	4015
BstBAI	YAC!GTR	5	340; 813; 1509; 2539; 3727
Bst4CI	ACN!GT	16	76; 198; 269; 543; 581; 645; 735; 1431; 2514; 3803; 3919; 4027; 4350; 4841; 5311; 5382
BstC8I	GCN!NGC	38	86; 279; 593; 653; 691; 789; 1138; 1232; 1323; 1387; 1485; 1834; 1928; 2019; 2642; 2685; 2699; 2972; 2991; 3044; 3063; 3317; 3503; 3722; 3788; 3794; 3826; 3867; 3871; 3925; 4208; 4395; 4442; 4498; 4520; 4731; 5291; 5328
BstDEI	C!TNAG	7	606; 2903; 3205; 4086; 4535; 4658; 5067
BstDSI	C!CRYGG	5	360; 649; 677; 3152; 3855
BstEII	G!GTNACC	0	
BstENI	CCTNN!NNNAGG	2	694; 1390
BstF5I	GGATGNN!	5	1379; 3283; 3740; 3765; 4219
BstF5I	!CATCC	7	848; 980; 1265; 1544; 1676; 1961; 3109
BstFNI	CG!CG	18	60; 651; 1232; 1928; 2072; 2347; 2723; 2743; 2767; 2798; 3489; 3790; 4228; 4312; 4375; 4444; 4717; 5298
BstH2I	RGCGC!Y	7	598; 827; 1523; 2690; 2698; 3426; 5101
BstHHI	GCG!C	29	597; 710; 826; 1232; 1234; 1406; 1522; 1928; 1930; 2689; 2697; 2723; 2745; 2754; 2767; 2798; 3417; 3425; 3489; 3526; 3792; 4052; 4228; 4314; 4717; 4826; 5000; 5100; 5167

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
BstKTI	GAT!C	27	588; 612; 663; 908; 1028; 1190; 1366; 1604; 1724; 1886; 2083; 3263; 3267; 3286; 3597; 3675; 3756; 3765; 3843; 4219; 4235; 4594; 4606; 4684; 4692; 4703; 4778
BstMAI	GTCTCN!	1	434
BstMAI	!NNNNNGAGAC	4	2847; 3265; 4284; 4412
BstMBI	!GATC	27	585; 609; 660; 905; 1025; 1187; 1363; 1601; 1721; 1883; 2080; 3260; 3264; 3283; 3594; 3672; 3753; 3762; 3840; 4216; 4232; 4591; 4603; 4681; 4689; 4700; 4775
BstMCI	CGRY!CG	7	671; 1149; 1179; 1845; 1875; 3332; 5007
BstMWI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 797; 872; 1013; 1142; 1214; 1231; 1278; 1327; 1493; 1568; 1709; 1838; 1910; 1927; 1974; 2023; 2650; 2680; 2707; 2749; 2990; 3062; 3113; 3192; 3414; 3498; 3521; 3660; 3783; 3866; 4133; 4320; 4524; 4723; 5295
BstNI	CC!WGG	19	90; 283; 853; 948; 997; 1009; 1549; 1644; 1693; 1705; 2959; 3014; 3031; 3810; 4389; 4492; 5182; 5195; 5316
BstNSI	RCATG!Y	4	2993; 3065; 3828; 5345
BstOI	CC!WGG	19	90; 283; 853; 948; 997; 1009; 1549; 1644; 1693; 1705; 2959; 3014; 3031; 3810; 4389; 4492; 5182; 5195; 5316
BstPI	G!GTNACC	0	
BstPAI	GACNN!NNGTC	0	
BstSCI	!CCNGG	31	88; 281; 655; 656; 851; 946; 995; 1007; 1245; 1330; 1368; 1369; 1547; 1642; 1691; 1703; 1941; 2026; 2957; 3012; 3029; 3425; 3585; 3808; 4198; 4387; 4490; 4962; 5180; 5193; 5314
BstSFI	C!TRYAG	4	634; 2758; 4885; 5076
BstSLI	GKGC!C	10	657; 733; 893; 1046; 1429; 1589; 1742; 3369; 3462; 5031
BstSNI	TAC!GTA	1	340
BstUI	CG!CG	18	60; 651; 1232; 1928; 2072; 2347; 2723; 2743; 2767; 2798; 3489; 3790; 4228; 4312; 4375; 4444; 4717; 5298
Bst2UI	CC!WGG	19	90; 283; 853; 948; 997; 1009; 1549; 1644; 1693; 1705; 2959; 3014; 3031; 3810; 4389; 4492; 5182; 5195; 5316
BstVII	GCAGC!NNNNNNN!	8	887; 1583; 2211; 3496; 3538; 4059; 4512; 5012
BstVII	!NNNNNNNNNNNGCTGC	10	850; 1268; 1546; 1964; 2705; 3370; 3554; 3647; 4713; 4919
BstV2I	GAAGACNN!	0	
BstV2I	!NNNNNNGTCTTC	0	
BstXI	CCANNNNN!NTGG	0	
BstX2I	R!GATCY	13	585; 609; 660; 905; 1363; 1601; 3594; 3840; 4232; 4591; 4603; 4689; 4700
BstYI	R!GATCY	13	585; 609; 660; 905; 1363; 1601; 3594; 3840; 4232; 4591; 4603; 4689; 4700
BstZI	C!GGCCG	3	1146; 1842; 3329
BstZ17I	GTA!TAC	0	
BsuI	GTATCCNNNNNN!	3	2852; 3642; 5143
BsuI	!NNNNNGGATAC	0	
Bsu15I	AT!CGAT	1	3263
Bsu36I	CC!TNAGG	2	2903; 4535
BsuRI	GG!CC	41	84; 277; 655; 689; 743; 856; 1070; 1148; 1162; 1225; 1321; 1330; 1357; 1385; 1439; 1552; 1766; 1844; 1858; 1921; 2017; 2026; 2053; 2069; 2389; 2531; 3186; 3192; 3201; 3244; 3331; 3505; 3896; 3923; 4432; 4489; 4522; 4867; 5301; 5319; 5330
BsuTUI	AT!CGAT	1	3263
BtgI	C!CRYGG	5	360; 649; 677; 3152; 3855
BtgZI	GCGATGNNNNNNNNN!	2	2540; 3875
BtgZI	!NNNNNNNNNNNNNCATCGC	3	334; 3694; 4038
BthCI	GCNG!C	45	689; 866; 878; 980; 1094; 1097; 1148; 1284; 1385; 1562; 1574; 1676; 1790; 1793; 1844; 1980; 2072; 2202; 2721; 2743; 2757; 3195; 3334; 3386; 3397; 3487; 3492; 3529; 3570; 3657; 3660; 3663; 3899; 3995; 4036; 4050; 4164; 4503; 4518; 4729; 4935; 4938; 5003; 5146; 5301
BtrI	CAC!GTC	0	
BtrI	GAC!GTG	0	
BtsI	GCAGTGNN!	0	
BtsI	!CACTGC	1	2262
BtsCI	GGATGNN!	5	1379; 3283; 3740; 3765; 4219
BtsCI	!CATCC	7	848; 980; 1265; 1544; 1676; 1961; 3109
BtuMI	TCG!CGA	0	
BveI	ACCTGCNNNN!	4	1352; 2048; 3691; 4141
BveI	!NNNNNNNNGCAGGT	1	3310

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
Cac8I	GCN!NGC	38	86; 279; 593; 653; 691; 789; 1138; 1232; 1323; 1387; 1485; 1834; 1928; 2019; 2642; 2685; 2699; 2972; 2991; 3044; 3063; 3317; 3503; 3722; 3788; 3794; 3826; 3867; 3871; 3925; 4208; 4395; 4442; 4498; 4520; 4731; 5291; 5328
CaiI	CAGNNN!CTG	4	1281; 1977; 4524; 4932
CciI	T!CATGA	2	2849; 4621
CciNI	GC!GGCCGC	0	
CdiI	CATC!G	5	352; 3712; 3717; 3915; 4056
CdiI	C!GATG	2	2526; 3861
CdpI	GCGGAGNNNNNNNNNNNNNNNNNNNN!	1	5295
CdpI	!NNNNNNNNNNNNNNNNNNNNCTCCGC	3	486; 3084; 3126
CelII	GC!TNAGC	0	
CfoI	GCG!C	29	597; 710; 826; 1232; 1234; 1406; 1522; 1928; 1930; 2689; 2697; 2723; 2745; 2754; 2767; 2798; 3417; 3425; 3489; 3526; 3792; 4052; 4228; 4314; 4717; 4826; 5000; 5100; 5167
CfrI	Y!GGCCR	8	741; 1146; 1437; 1842; 3329; 3503; 3894; 3921
Cfr9I	C!CCGGG	2	656; 1369
Cfr10I	R!CCGGY	9	666; 787; 1178; 1483; 1874; 2640; 3742; 3923; 4206
Cfr13I	G!GNCC	19	83; 276; 654; 855; 881; 1069; 1161; 1329; 1551; 1577; 1765; 1857; 2025; 2530; 3939; 4384; 4430; 4488; 4521
Cfr42I	CCGC!GG	1	652
ChaI	GATC!	27	589; 613; 664; 909; 1029; 1191; 1367; 1605; 1725; 1887; 2084; 3264; 3268; 3287; 3598; 3676; 3757; 3766; 3844; 4220; 4236; 4595; 4607; 4685; 4693; 4704; 4779
CjeI	CCANNNNNNGTNNNNNNNNNNNNNNNN!	4	3240; 4680; 4780; 4858
CjeI	!NNNNNNNNNACNNNNNNNTGG	7	64; 257; 2907; 3002; 4194; 4744; 5299
CjeI	ACNNNNNNNTGGNNNNNNNNNNNNNN!	7	98; 291; 2941; 3036; 4228; 4778; 5333
CjeI	!NNNNNNNNCCANNNNNNGT	4	3206; 4646; 4746; 4824
CjePI	CCANNNNNNNNTCNNNNNNNNNNNNNN!	4	1383; 2079; 4680; 4858
CjePI	!NNNNNNNNGANNNNNNNTGG	3	257; 4194; 4793
CjePI	GANNNNNNNTGGNNNNNNNNNNNNNN!	3	290; 4227; 4826
CjePI	!NNNNNNNNCCANNNNNNNNTC	4	1350; 2046; 4647; 4825
ClaI	AT!CGAT	1	3263
CpoI	CG!GWCCG	1	3939
CseI	GACGCNNNNN!	3	526; 4133; 4212
CseI	!NNNNNNNNNNNGCGTC	3	2756; 4651; 5229
CsiI	A!CCWGGT	1	3012
CspI	CG!GWCCG	1	3939
Csp6I	G!TAC	20	218; 243; 298; 331; 382; 539; 646; 720; 870; 1122; 1302; 1314; 1335; 1416; 1566; 1818; 1998; 2010; 2031; 3728
Csp45I	TT!CGAA	2	627; 4105
CspAI	A!CCGGT	1	666
CspCI	CAANNNNNGTGGNNNNNNNNNNNN!	1	411
CspCI	!NNNNNNNNNNCCACNNNNNTTG	0	
CspCI	CCACNNNNNTTGGNNNNNNNNNNNN!	0	
CspCI	!NNNNNNNNNNCAANNNNNGTGG	1	376
CstMI	AAGGAGNNNNNNNNNNNNNNNNNN!	4	722; 1418; 2703; 4312
CstMI	!NNNNNNNNNNNNNNNNNNCTCCTT	0	
CviAII	C!ATG	22	301; 361; 678; 723; 801; 1242; 1419; 1497; 1938; 2850; 2990; 3062; 3153; 3294; 3639; 3825; 3856; 3882; 4238; 4622; 5342; 5393
CviJI	RG!CY	113	42; 84; 93; 277; 566; 618; 624; 655; 689; 743; 856; 929; 941; 1007; 1070; 1097; 1104; 1148; 1162; 1208; 1225; 1250; 1272; 1311; 1321; 1330; 1357; 1385; 1439; 1552; 1625; 1637; 1703; 1766; 1793; 1800; 1844; 1858; 1904; 1921; 1946; 1968; 2007; 2017; 2026; 2053; 2069; 2092; 2202; 2369; 2389; 2531; 2612; 2626; 2640; 2921; 2962; 3034; 3157; 3186; 3192; 3201; 3209; 3232; 3244; 3250; 3331; 3348; 3356; 3383; 3408; 3492; 3501; 3505; 3529; 3567; 3643; 3660; 3679; 3742; 3786; 3796; 3813; 3896; 3923; 3927; 3964; 3987; 4003; 4183; 4210; 4271; 4393; 4432; 4489; 4496; 4503; 4522; 4533; 4784; 4813; 4856; 4867; 4932; 5011; 5036; 5041; 5087; 5177; 5275; 5301; 5319; 5330

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
CviKI-1	RG!CY	113	42; 84; 93; 277; 566; 618; 624; 655; 689; 743; 856; 929; 941; 1007; 1070; 1097; 1104; 1148; 1162; 1208; 1225; 1250; 1272; 1311; 1321; 1330; 1357; 1385; 1439; 1552; 1625; 1637; 1703; 1766; 1793; 1800; 1844; 1858; 1904; 1921; 1946; 1968; 2007; 2017; 2026; 2053; 2069; 2092; 2202; 2369; 2389; 2531; 2612; 2626; 2640; 2921; 2962; 3034; 3157; 3186; 3192; 3201; 3209; 3232; 3244; 3250; 3331; 3348; 3356; 3383; 3408; 3492; 3501; 3505; 3529; 3567; 3643; 3660; 3679; 3742; 3786; 3796; 3813; 3896; 3923; 3927; 3964; 3987; 4003; 4183; 4210; 4271; 4393; 4432; 4489; 4496; 4503; 4522; 4533; 4784; 4813; 4856; 4867; 4932; 5011; 5036; 5041; 5087; 5177; 5275; 5301; 5319; 5330
CviQI	G!TAC	20	218; 243; 298; 331; 382; 539; 646; 720; 870; 1122; 1302; 1314; 1335; 1416; 1566; 1818; 1998; 2010; 2031; 3728
DdeI	C!TNAG	7	606; 2903; 3205; 4086; 4535; 4658; 5067
DinI	GGC!GCC	3	825; 1521; 3424
DpnI	GA!TC	27	587; 611; 662; 907; 1027; 1189; 1365; 1603; 1723; 1885; 2082; 3262; 3266; 3285; 3596; 3674; 3755; 3764; 3842; 4218; 4234; 4593; 4605; 4683; 4691; 4702; 4777
DpnII	!GATC	27	585; 609; 660; 905; 1025; 1187; 1363; 1601; 1721; 1883; 2080; 3260; 3264; 3283; 3594; 3672; 3753; 3762; 3840; 4216; 4232; 4591; 4603; 4681; 4689; 4700; 4775
DraI	TTT!AAA	3	2125; 4567; 4586
DraII	RG!GNCCY	3	881; 1577; 4521
DraIII	CACNNN!GTG	1	2539
DraRI	CAAGNACNNNNNNNNNNNNNNNNNNNNNN!	2	266; 4903
DraRI	!NNNNNNNNNNNNNNNNNNNGTCTTG	0	
DrdI	GACNNN!NNGTC	3	2494; 3450; 5239
DrdIV	TACGACNNNNNNNNNNNNNNNNNNNNNN!	0	
DrdIV	!NNNNNNNNNNNNNNNNNNNGTCGTA	1	476
DriI	GACNNN!NNGTC	0	
DseDI	GACNNN!NNGTC	3	2494; 3450; 5239
EaeI	Y!GGCCR	8	741; 1146; 1437; 1842; 3329; 3503; 3894; 3921
EagI	C!GGCCG	3	1146; 1842; 3329
Eam1104I	CTCTCN!	0	
Eam1104I	!NNNNGAAGAG	3	2890; 3767; 3977
Eam1105I	GACNNN!NNGTC	0	
EarI	CTCTCN!	0	
EarI	!NNNNGAAGAG	3	2890; 3767; 3977
EciI	GGCGGANNNNNNNNNNNN!	4	2923; 3952; 5139; 5285
EciI	!NNNNNNNNNTCCGCC	4	496; 3094; 3115; 3136
Ecl136II	GAG!CTC	1	618
EclXI	C!GGCCG	3	1146; 1842; 3329
Eco24I	GRGCY!C	7	620; 657; 1106; 1802; 2614; 3788; 4498
Eco31I	GGTCTCN!	0	
Eco31I	!NNNNGAGACC	1	4412
Eco32I	GAT!ATC	0	
Eco47I	G!GWCC	4	881; 1577; 3939; 4384
Eco47III	AGC!GCT	1	596
Eco52I	C!GGCCG	3	1146; 1842; 3329
Eco57I	CTGAAGNNNNNNNNNNNNNNNN!	6	715; 1186; 1411; 1882; 3569; 4001
Eco57I	!NNNNNNNNNNNNNNCTTCAG	1	4799
Eco72I	CAC!GTG	2	813; 1509
Eco81I	CC!TNAGG	2	2903; 4535
Eco88I	C!YCGRG	10	613; 656; 934; 1126; 1348; 1369; 1630; 1822; 2044; 2063
Eco91I	G!GTNACC	0	
Eco105I	TAC!GTA	1	340
Eco130I	C!CWVGG	6	360; 677; 3152; 3245; 3855; 4260
Eco147I	AGG!CCT	1	3244
EcoHI	!CCSGG	12	655; 656; 1245; 1330; 1368; 1369; 1941; 2026; 3425; 3585; 4198; 4962
EcoICRI	GAG!CTC	1	618
Eco57MI	CTGRAGNNNNNNNNNNNNNNNN!	9	715; 1030; 1186; 1411; 1726; 1882; 3569; 4001; 4263
Eco57MI	!NNNNNNNNNNNNNNCTYCAG	4	1258; 1954; 4206; 4799
EcoNI	CCTNN!NNNAGG	2	694; 1390
Eco065I	G!GTNACC	0	
Eco0109I	RG!GNCCY	3	881; 1577; 4521
EcoRI	G!AATTC	1	629

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
EcoRII	!CCWGG	19	88; 281; 851; 946; 995; 1007; 1547; 1642; 1691; 1703; 2957; 3012; 3029; 3808; 4387; 4490; 5180; 5193; 5314
EcoRV	GAT!ATC	0	
EcoT14I	C!CWWGG	6	360; 677; 3152; 3245; 3855; 4260
EcoT22I	ATGCA!T	3	2995; 3067; 5398
EcoT38I	GRGCY!C	7	620; 657; 1106; 1802; 2614; 3788; 4498
Eco53kI	GAG!CTC	1	618
EgeI	GGC!GCC	3	825; 1521; 3424
EheI	GGC!GCC	3	825; 1521; 3424
ErhI	C!CWWGG	6	360; 677; 3152; 3245; 3855; 4260
EsaBC3I	TC!GA	19	615; 628; 641; 846; 1308; 1542; 2004; 2065; 2573; 3264; 3537; 3693; 3717; 3753; 3915; 4106; 4151; 4406; 5244
Esp3I	CGTCTCN!	0	
Esp3I	!NNNNNGAGACG	0	
FaeI	CATG!	22	304; 364; 681; 726; 804; 1245; 1422; 1500; 1941; 2853; 2993; 3065; 3156; 3297; 3642; 3828; 3859; 3885; 4241; 4625; 5345; 5396
Fail	YA!TR	60	39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 679; 706; 724; 802; 1243; 1402; 1420; 1498; 1939; 2085; 2095; 2161; 2206; 2411; 2839; 2851; 2982; 2991; 3054; 3063; 3087; 3154; 3178; 3295; 3359; 3640; 3665; 3826; 3857; 3883; 3955; 4171; 4239; 4317; 4369; 4530; 4547; 4549; 4551; 4623; 4901; 5090; 5206; 5279; 5343; 5394
FalI	AAGNNNNNCTTNNNNNNNNNNNN!	3	945; 1641; 3763
FalI	!NNNNNNNNAAGNNNNNCTT	3	913; 1609; 3731
FaqI	GGGACNNNNNNNNNN!	6	175; 326; 494; 3574; 4106; 4215
FaqI	!NNNNNNNNNNNNNGTCCC	4	2939; 3011; 3075; 4370
FatI	!CATG	22	300; 360; 677; 722; 800; 1241; 1418; 1496; 1937; 2849; 2989; 3061; 3152; 3293; 3638; 3824; 3855; 3881; 4237; 4621; 5341; 5392
FauI	CCCGCNNNN!	10	93; 119; 286; 1068; 1764; 2745; 3100; 3121; 4317; 4449
FauI	!NNNNNNGCGGG	6	644; 2676; 3546; 4083; 4221; 4368
FauNDI	CA!TATG	1	234
FbaI	T!GATCA	0	
FblI	GT!MKAC	1	640
FmuI	GGNC!C	19	86; 279; 657; 858; 884; 1072; 1164; 1332; 1554; 1580; 1768; 1860; 2028; 2533; 3942; 4387; 4433; 4491; 4524
Fnu4HI	GC!NGC	45	687; 864; 876; 978; 1092; 1095; 1146; 1282; 1383; 1560; 1572; 1674; 1788; 1791; 1842; 1978; 2070; 2200; 2719; 2741; 2755; 3193; 3332; 3384; 3395; 3485; 3490; 3527; 3568; 3655; 3658; 3661; 3897; 3993; 4034; 4048; 4162; 4501; 4516; 4727; 4933; 4936; 5001; 5144; 5299
FokI	GGATGNNNNNNNNN!	5	1386; 3290; 3747; 3772; 4226
FokI	!NNNNNNNNNNNNNCATCC	7	835; 967; 1252; 1531; 1663; 1948; 3096
FriOI	GRGCY!C	7	620; 657; 1106; 1802; 2614; 3788; 4498
FseI	GGCCGG!CC	0	
FspI	TGC!GCA	3	709; 1405; 3525
FspAI	RTGC!GCAY	2	709; 1405
FspBI	C!TAG	8	592; 2078; 2272; 2690; 3246; 4261; 4595; 4848
FspEI	CCNNNNNNNNNNNN!	192	56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 614; 662; 677; 703; 747; 793; 807; 823; 840; 855; 870; 897; 912; 946; 960; 975; 997; 1017; 1036; 1065; 1084; 1118; 1138; 1162; 1176; 1192; 1207; 1225; 1239; 1254; 1275; 1335; 1357; 1371; 1399; 1443; 1489; 1503; 1519; 1536; 1551; 1566; 1593; 1608; 1642; 1656; 1671; 1693; 1713; 1732; 1761; 1780; 1814; 1834; 1858; 1872; 1888; 1903; 1921; 1935; 1950; 1971; 2031; 2053; 2067; 2083; 2106; 2145; 2159; 2300; 2395; 2419; 2442; 2465; 2483; 2505; 2526; 2545; 2564; 2593; 2614; 2628; 2654; 2742; 2768; 2817; 2858; 2876; 2915; 2931; 2969; 3026; 3041; 3098; 3118; 3132; 3149; 3163; 3200; 3215; 3258; 3341; 3408; 3439; 3459; 3474; 3519; 3533; 3599; 3613; 3632; 3648; 3689; 3709; 3756; 3806; 3822; 3842; 3867; 3887; 3910; 3937; 3955; 3981; 4021; 4047; 4071; 4127; 4141; 4169; 4212; 4233; 4268; 4312; 4400; 4424; 4446; 4466; 4482; 4503; 4517; 4536; 4620; 4640; 4668; 4683; 4717; 4759; 4786; 4801; 4846; 4870; 4884; 4906; 4932; 4952; 4976; 5002; 5050; 5069; 5088; 5114; 5149; 5194; 5224; 5238; 5289; 5303; 5328; 5344; 5365; 5394

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
FspEI	!NNNNNNNNNNNNNNNNNGG	154	8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 586; 628; 652; 671; 682; 709; 745; 773; 805; 838; 857; 922; 955; 982; 1018; 1052; 1076; 1099; 1118; 1144; 1164; 1197; 1232; 1254; 1279; 1303; 1339; 1360; 1378; 1405; 1441; 1469; 1501; 1534; 1553; 1618; 1651; 1678; 1714; 1748; 1772; 1795; 1814; 1840; 1860; 1893; 1928; 1950; 1975; 1999; 2035; 2094; 2194; 2263; 2293; 2371; 2420; 2442; 2470; 2506; 2551; 2580; 2616; 2635; 2663; 2683; 2746; 2769; 2877; 2909; 2927; 2956; 2999; 3028; 3139; 3168; 3211; 3232; 3260; 3293; 3313; 3338; 3365; 3390; 3412; 3440; 3466; 3487; 3538; 3559; 3577; 3625; 3661; 3717; 3742; 3766; 3795; 3818; 3842; 3868; 3890; 3909; 3934; 3974; 4010; 4075; 4160; 4184; 4213; 4247; 4268; 4288; 4333; 4360; 4379; 4412; 4464; 4495; 4522; 4574; 4672; 4743; 4788; 4849; 4914; 4948; 4974; 4992; 5028; 5098; 5121; 5143; 5167; 5200; 5248; 5283; 5301; 5358
Fsp4HI	GC!NGC	45	687; 864; 876; 978; 1092; 1095; 1146; 1282; 1383; 1560; 1572; 1674; 1788; 1791; 1842; 1978; 2070; 2200; 2719; 2741; 2755; 3193; 3332; 3384; 3395; 3485; 3490; 3527; 3568; 3655; 3658; 3661; 3897; 3993; 4034; 4048; 4162; 4501; 4516; 4727; 4933; 4936; 5001; 5144; 5299
GdiII	C!GGCCR	5	741; 1146; 1437; 1842; 3329
GdiII	Y!GGCCG	5	1146; 1842; 3329; 3894; 3921
GlaI	GC!GC	29	596; 709; 825; 1231; 1233; 1405; 1521; 1927; 1929; 2688; 2696; 2722; 2744; 2753; 2766; 2797; 3416; 3424; 3488; 3525; 3791; 4051; 4227; 4313; 4716; 4825; 4999; 5099; 5166
Glul	GC!NGC	45	687; 864; 876; 978; 1092; 1095; 1146; 1282; 1383; 1560; 1572; 1674; 1788; 1791; 1842; 1978; 2070; 2200; 2719; 2741; 2755; 3193; 3332; 3384; 3395; 3485; 3490; 3527; 3568; 3655; 3658; 3661; 3897; 3993; 4034; 4048; 4162; 4501; 4516; 4727; 4933; 4936; 5001; 5144; 5299
GsaI	CCCAG!C	5	1109; 1805; 2970; 3042; 5041
GsaI	GCTGG!G	3	1101; 1797; 3931
GsuI	CTGGAGNNNNNNNNNNNNNN!	3	1030; 1726; 4263
GsuI	!NNNNNNNNNNNNNNCTCCAG	3	1258; 1954; 4206
HaeI	WGG!CCW	9	1321; 1357; 2017; 2053; 3244; 3505; 4867; 5319; 5330
HaeII	RGCG!Y	7	598; 827; 1523; 2690; 2698; 3426; 5101
HaeIII	GG!CC	41	84; 277; 655; 689; 743; 856; 1070; 1148; 1162; 1225; 1321; 1330; 1357; 1385; 1439; 1552; 1766; 1844; 1858; 1921; 2017; 2026; 2053; 2069; 2389; 2531; 3186; 3192; 3201; 3244; 3331; 3505; 3896; 3923; 4432; 4489; 4522; 4867; 5301; 5319; 5330
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2098; 3619
HaeIV	!NNNNNNNNNGAYNNNNNRTC	2	2064; 3585
HaeIV	GAYNNNNNRTCNNNNNNNNNNNNN!	2	2097; 3618
HaeIV	!NNNNNNNGAYNNNNNRTC	2	2066; 3587
HapII	C!CGG	34	601; 657; 667; 788; 1149; 1179; 1212; 1247; 1269; 1332; 1370; 1484; 1845; 1875; 1908; 1943; 1965; 2028; 2641; 3328; 3405; 3427; 3455; 3586; 3676; 3743; 3924; 4199; 4207; 4299; 4773; 4963; 4989; 5136
HgaI	GACGCNNNNN!	3	526; 4133; 4212
HgaI	!NNNNNNNNNGCGTC	3	2756; 4651; 5229
HhaI	GCG!C	29	597; 710; 826; 1232; 1234; 1406; 1522; 1928; 1930; 2689; 2697; 2723; 2745; 2754; 2767; 2798; 3417; 3425; 3489; 3526; 3792; 4052; 4228; 4314; 4717; 4826; 5000; 5100; 5167
Hin1I	GR!CGYC	9	122; 175; 258; 444; 824; 1520; 3423; 4125; 4204
Hin1II	CATG!	22	304; 364; 681; 726; 804; 1245; 1422; 1500; 1941; 2853; 2993; 3065; 3156; 3297; 3642; 3828; 3859; 3885; 4241; 4625; 5345; 5396
Hin4I	GAYNNNNNVTCNNNNNNNNNNNN!	2	2097; 3618
Hin4I	!NNNNNNNGABNNNNNRTC	3	2065; 3586; 3616
Hin4I	GABNNNNNRTCNNNNNNNNNNNNN!	3	2097; 3618; 3648
Hin4I	!NNNNNNNGAYNNNNNVTC	2	2065; 3586
Hin6I	G!CGC	29	595; 708; 824; 1230; 1232; 1404; 1520; 1926; 1928; 2687; 2695; 2721; 2743; 2752; 2765; 2796; 3415; 3423; 3487; 3524; 3790; 4050; 4226; 4312; 4715; 4824; 4998; 5098; 5165
HinP1I	G!CGC	29	595; 708; 824; 1230; 1232; 1404; 1520; 1926; 1928; 2687; 2695; 2721; 2743; 2752; 2765; 2796; 3415; 3423; 3487; 3524; 3790; 4050; 4226; 4312; 4715; 4824; 4998; 5098; 5165
HincII	GTY!RAC	2	641; 2186
HindII	GTY!RAC	2	641; 2186

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
HindIII	A!AGCTT	1	622
HinfI	G!ANTC	15	410; 604; 806; 1502; 2074; 2466; 2488; 2898; 3908; 4042; 4094; 4152; 4189; 4971; 5367
HpaI	GTT!AAC	1	2186
HpaII	C!CGG	34	601; 657; 667; 788; 1149; 1179; 1212; 1247; 1269; 1332; 1370; 1484; 1845; 1875; 1908; 1943; 1965; 2028; 2641; 3328; 3405; 3427; 3455; 3586; 3676; 3743; 3924; 4199; 4207; 4299; 4773; 4963; 4989; 5136
HphI	GGTGANNNNNNNN!	7	376; 693; 1047; 1389; 1743; 4494; 4610
HphI	!NNNNNNNTCACC	6	936; 1251; 1632; 1947; 2540; 3601
Hpy8I	GTN!NAC	17	201; 539; 577; 641; 738; 891; 1044; 1122; 1434; 1587; 1740; 1818; 2186; 2470; 2487; 2542; 5029
Hpy99I	CGWCG!	12	645; 775; 1069; 1471; 1765; 3513; 3541; 3835; 3850; 4127; 4512; 5245
Hpy166II	GTN!NAC	17	201; 539; 577; 641; 738; 891; 1044; 1122; 1434; 1587; 1740; 1818; 2186; 2470; 2487; 2542; 5029
Hpy188I	TCN!GA	12	585; 609; 2597; 3206; 3390; 3734; 4087; 4188; 4667; 4801; 5154; 5232
Hpy188III	TC!NNGA	27	613; 714; 984; 1275; 1410; 1680; 1971; 2078; 2850; 2902; 3215; 3268; 3441; 3757; 3766; 3849; 3905; 3949; 4039; 4072; 4141; 4622; 4696; 4779; 4877; 4975; 5109
HpyAV	CCTTCNNNNNN!	9	792; 846; 894; 1488; 1542; 1590; 4068; 4175; 4854
HpyAV	!NNNNNGAAGG	19	690; 1032; 1161; 1215; 1287; 1347; 1386; 1728; 1857; 1911; 1983; 2043; 2656; 3551; 4280; 4296; 4479; 4796; 5106
HpyCH4III	ACN!GT	16	76; 198; 269; 543; 581; 645; 735; 1431; 2514; 3803; 3919; 4027; 4350; 4841; 5311; 5382
HpyCH4IV	A!CGT	18	122; 134; 175; 258; 339; 444; 812; 1154; 1508; 1850; 2483; 2495; 2538; 2648; 3539; 3726; 4507; 4640
HpyCH4V	TG!CA	21	636; 891; 1044; 1587; 1740; 2172; 2199; 2267; 2984; 2993; 3056; 3065; 3180; 3256; 3315; 3474; 3649; 3663; 4733; 5029; 5396
HpyF3I	C!TNAG	7	606; 2903; 3205; 4086; 4535; 4658; 5067
HpyF10VI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 797; 872; 1013; 1142; 1214; 1231; 1278; 1327; 1493; 1568; 1709; 1838; 1910; 1927; 1974; 2023; 2650; 2680; 2707; 2749; 2990; 3062; 3113; 3192; 3414; 3498; 3521; 3660; 3783; 3866; 4133; 4320; 4524; 4723; 5295
Hsp92I	GR!CGYC	9	122; 175; 258; 444; 824; 1520; 3423; 4125; 4204
Hsp92II	CATG!	22	304; 364; 681; 726; 804; 1245; 1422; 1500; 1941; 2853; 2993; 3065; 3156; 3297; 3642; 3828; 3859; 3885; 4241; 4625; 5345; 5396
HspAI	G!CGC	29	595; 708; 824; 1230; 1232; 1404; 1520; 1926; 1928; 2687; 2695; 2721; 2743; 2752; 2765; 2796; 3415; 3423; 3487; 3524; 3790; 4050; 4226; 4312; 4715; 4824; 4998; 5098; 5165
KasI	G!GCGCC	3	823; 1519; 3422
KfII	GG!GWCCC	0	
KpnI	GGTAC!C	1	649
Kpn2I	T!CCGGA	0	
KspI	CCGC!GG	1	652
Ksp22I	T!GATCA	0	
KspAI	GTT!AAC	1	2186
Kzo9I	!GATC	27	585; 609; 660; 905; 1025; 1187; 1363; 1601; 1721; 1883; 2080; 3260; 3264; 3283; 3594; 3672; 3753; 3762; 3840; 4216; 4232; 4591; 4603; 4681; 4689; 4700; 4775
LguI	GCTCTCN!	0	
LguI	!NNNNGAAGAGC	2	3767; 3977
LpnI	RG!GCGY	7	596; 825; 1521; 2688; 2696; 3424; 5099
LpnPI	CCDGNNNNNNNNNN!	83	102; 295; 614; 670; 703; 801; 844; 865; 960; 997; 1017; 1036; 1119; 1162; 1177; 1192; 1218; 1249; 1282; 1335; 1357; 1383; 1399; 1497; 1540; 1561; 1656; 1693; 1713; 1732; 1815; 1858; 1873; 1888; 1914; 1945; 1978; 2031; 2053; 2160; 2465; 2654; 2877; 2915; 2931; 2971; 3026; 3043; 3143; 3228; 3341; 3418; 3440; 3463; 3599; 3613; 3632; 3689; 3756; 3806; 3822; 3879; 3937; 4146; 4212; 4236; 4312; 4401; 4504; 4537; 4768; 4786; 4932; 4952; 4976; 5002; 5051; 5149; 5194; 5224; 5303; 5328; 5365

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
LpnPI	!NNNNNNNNNNNNNNCHGG	71	75; 268; 552; 586; 642; 773; 838; 864; 933; 982; 1083; 1134; 1164; 1197; 1232; 1254; 1317; 1355; 1469; 1534; 1560; 1629; 1678; 1779; 1830; 1860; 1893; 1928; 1950; 2013; 2506; 2626; 2683; 2746; 2944; 2956; 3016; 3028; 3260; 3305; 3348; 3390; 3412; 3440; 3487; 3549; 3571; 3661; 3728; 3751; 3795; 3890; 3909; 3934; 4083; 4184; 4227; 4284; 4374; 4477; 4504; 4522; 4758; 4795; 4948; 4974; 5114; 5132; 5167; 5248; 5301
Lsp1109I	GCAGCNNNNNNNN!	8	887; 1583; 2211; 3496; 3538; 4059; 4512; 5012
Lsp1109I	!NNNNNNNNNNNNNGCTGC	10	850; 1268; 1546; 1964; 2705; 3370; 3554; 3647; 4713; 4919
LweI	GCATCNNNNN!	10	719; 989; 1415; 1685; 2239; 3002; 3074; 3722; 3786; 4061
LweI	!NNNNNNNNNGATGC	7	357; 1268; 1964; 3381; 3636; 3852; 5244
MabI	A!CCWGGT	1	3012
MaeI	C!TAG	8	592; 2078; 2272; 2690; 3246; 4261; 4595; 4848
MaeII	A!CGT	18	122; 134; 175; 258; 339; 444; 812; 1154; 1508; 1850; 2483; 2495; 2538; 2648; 3539; 3726; 4507; 4640
MaeIII	!GTNAC	14	61; 148; 497; 813; 1509; 2211; 2712; 2724; 3543; 3849; 4539; 4805; 4921; 4984
MalI	GA!TC	27	587; 611; 662; 907; 1027; 1189; 1365; 1603; 1723; 1885; 2082; 3262; 3266; 3285; 3596; 3674; 3755; 3764; 3842; 4218; 4234; 4593; 4605; 4683; 4691; 4702; 4777
MaqI	CRTTGACNNNNNNNNNNNNNNNNNNNN!	4	144; 197; 466; 540
MaqI	!NNNNNNNNNNNNNNNNNNNGTCAAYG	3	157; 240; 426
MauBI	CG!CGCGCG	0	
MbiI	CCG!CTC	2	2847; 4036
MbiI	GAG!CGG	6	686; 1091; 1382; 1787; 2683; 4090
MboI	!GATC	27	585; 609; 660; 905; 1025; 1187; 1363; 1601; 1721; 1883; 2080; 3260; 3264; 3283; 3594; 3672; 3753; 3762; 3840; 4216; 4232; 4591; 4603; 4681; 4689; 4700; 4775
MboII	GAAGANNNNNNNN!	9	1092; 1299; 1788; 1995; 2679; 2907; 3784; 3994; 4613
MboII	!NNNNNNNTCTTC	6	909; 1605; 4074; 4241; 4441; 4684
McaTI	GCGC!GC	2	1233; 1929
MfeI	C!AATTG	1	2173
MfiI	R!GATCY	13	585; 609; 660; 905; 1363; 1601; 3594; 3840; 4232; 4591; 4603; 4689; 4700
MhiI	GDGCH!C	18	620; 657; 733; 893; 1046; 1106; 1429; 1589; 1742; 1802; 2614; 3369; 3462; 3536; 3726; 3788; 4498; 5031
MisI	TGG!CCA	1	3505
MluI	A!CGCGT	0	
MluNI	TGG!CCA	1	3505
MlyI	GAGTCNNNNN!	2	2475; 2907
MlyI	!NNNNNGACTC	6	404; 598; 2068; 2482; 4088; 4965
Mly113I	GG!CGCC	3	824; 1520; 3423
MmeI	TCCRACNNNNNNNNNNNNNNNNNNNN!	1	2516
MmeI	!NNNNNNNNNNNNNNNNNNNGTYGGA	2	4948; 5132
MniI	CCTCNNNNNNN!	7	2142; 3206; 4024; 4230; 4544; 4914; 5238
MniI	!NNNNNNNGAGG	30	541; 720; 753; 813; 930; 963; 1005; 1107; 1311; 1416; 1449; 1509; 1626; 1659; 1701; 1803; 2007; 2059; 2102; 2567; 2898; 3176; 3219; 3234; 3274; 3338; 3474; 3831; 4261; 5164
Mph1103I	ATGCA!T	3	2995; 3067; 5398
MreI	CG!CCGGCG	0	
MroI	T!CCGGA	0	
MroNI	G!CCGGC	5	787; 1483; 2640; 3923; 4206
MroXI	GAANN!NNTTC	0	
MscI	TGG!CCA	1	3505
MseI	T!TAA	15	7; 2124; 2185; 2306; 2327; 2338; 2350; 2361; 2378; 2476; 2747; 4566; 4580; 4585; 4637
MsII	CAYNN!NNRTG	7	365; 679; 715; 1114; 1411; 1810; 3860
MspI	C!CGG	34	601; 657; 667; 788; 1149; 1179; 1212; 1247; 1269; 1332; 1370; 1484; 1845; 1875; 1908; 1943; 1965; 2028; 2641; 3328; 3405; 3427; 3455; 3586; 3676; 3743; 3924; 4199; 4207; 4299; 4773; 4963; 4989; 5136
Msp20I	TGG!CCA	1	3505
MspA1I	CMG!CKG	5	651; 2921; 3529; 4758; 5003
MspCI	C!TTAAG	1	2305

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
MspJI	CNNRNNNNNNNNNN!	280	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; 662; 679; 702; 721; 735; 765; 800; 813; 830; 843; 864; 879; 900; 914; 933; 946; 959; 977; 996; 1009; 1035; 1057; 1072; 1086; 1110; 1124; 1138; 1161; 1176; 1191; 1217; 1230; 1243; 1258; 1274; 1287; 1311; 1329; 1343; 1356; 1370; 1383; 1398; 1417; 1431; 1461; 1496; 1509; 1526; 1539; 1560; 1575; 1596; 1610; 1629; 1642; 1655; 1673; 1692; 1705; 1731; 1753; 1768; 1782; 1806; 1820; 1834; 1857; 1872; 1887; 1913; 1926; 1939; 1954; 1970; 1983; 2007; 2025; 2039; 2052; 2066; 2083; 2096; 2111; 2130; 2147; 2160; 2201; 2215; 2228; 2246; 2284; 2299; 2317; 2358; 2382; 2402; 2420; 2441; 2464; 2496; 2511; 2533; 2551; 2564; 2585; 2602; 2615; 2628; 2644; 2657; 2687; 2702; 2727; 2745; 2758; 2773; 2797; 2811; 2835; 2860; 2876; 2914; 2930; 2969; 2983; 2997; 3025; 3041; 3055; 3069; 3098; 3111; 3132; 3141; 3163; 3193; 3209; 3227; 3257; 3280; 3304; 3328; 3347; 3375; 3401; 3417; 3430; 3453; 3467; 3487; 3500; 3514; 3533; 3547; 3560; 3576; 3591; 3604; 3620; 3635; 3651; 3676; 3695; 3711; 3724; 3737; 3755; 3769; 3783; 3799; 3821; 3837; 3856; 3878; 3894; 3917; 3936; 3950; 3966; 3980; 4000; 4016; 4029; 4051; 4084; 4098; 4118; 4131; 4145; 4199; 4212; 4235; 4248; 4267; 4284; 4311; 4347; 4380; 4399; 4424; 4445; 4472; 4485; 4502; 4516; 4531; 4547; 4607; 4632; 4648; 4670; 4683; 4697; 4728; 4742; 4767; 4785; 4800; 4813; 4832; 4845; 4860; 4889; 4908; 4926; 4951; 4966; 4985; 5001; 5020; 5038; 5054; 5068; 5087; 5114; 5137; 5159; 5178; 5193; 5206; 5223; 5243; 5270; 5283; 5302; 5327; 5350; 5364; 5377; 5394
MspJI	!NNNNNNNNNNNNYNG	232	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; 636; 653; 676; 693; 721; 739; 770; 787; 805; 824; 846; 865; 889; 907; 933; 953; 970; 990; 1009; 1031; 1058; 1084; 1112; 1130; 1150; 1171; 1191; 1213; 1232; 1254; 1285; 1303; 1330; 1355; 1372; 1389; 1417; 1435; 1466; 1483; 1501; 1520; 1542; 1561; 1585; 1603; 1629; 1649; 1666; 1686; 1705; 1727; 1754; 1780; 1808; 1826; 1846; 1867; 1887; 1909; 1928; 1950; 1981; 1999; 2026; 2049; 2075; 2104; 2133; 2175; 2258; 2293; 2320; 2343; 2372; 2416; 2438; 2470; 2506; 2523; 2544; 2581; 2601; 2618; 2635; 2670; 2688; 2706; 2723; 2747; 2769; 2796; 2824; 2850; 2888; 2909; 2926; 2944; 2967; 2988; 3016; 3039; 3060; 3078; 3099; 3116; 3139; 3163; 3183; 3201; 3223; 3254; 3276; 3302; 3321; 3338; 3366; 3385; 3404; 3422; 3440; 3461; 3483; 3507; 3540; 3560; 3578; 3599; 3625; 3652; 3669; 3686; 3703; 3729; 3751; 3773; 3791; 3811; 3830; 3852; 3890; 3910; 3934; 3954; 3974; 4001; 4025; 4058; 4077; 4105; 4127; 4156; 4184; 4209; 4228; 4247; 4268; 4285; 4302; 4333; 4360; 4380; 4403; 4423; 4460; 4477; 4496; 4522; 4542; 4581; 4608; 4627; 4645; 4682; 4700; 4741; 4759; 4785; 4802; 4834; 4863; 4891; 4912; 4935; 4954; 4975; 4993; 5010; 5028; 5054; 5075; 5095; 5115; 5133; 5154; 5180; 5197; 5216; 5235; 5264; 5283; 5301; 5320; 5338; 5356; 5379
MspR9I	CC!NGG	31	90; 283; 657; 658; 853; 948; 997; 1009; 1247; 1332; 1370; 1371; 1549; 1644; 1693; 1705; 1943; 2028; 2959; 3014; 3031; 3427; 3587; 3810; 4200; 4389; 4492; 4964; 5182; 5195; 5316
MssI	GTTT!AAAC	0	
MunI	C!AATTG	1	2173
MvaI	CC!WGG	19	90; 283; 853; 948; 997; 1009; 1549; 1644; 1693; 1705; 2959; 3014; 3031; 3810; 4389; 4492; 5182; 5195; 5316
Mva1269I	GAATGCN!	1	2174
Mva1269I	G!CATTC	1	2267
MvnI	CG!CG	18	60; 651; 1232; 1928; 2072; 2347; 2723; 2743; 2767; 2798; 3489; 3790; 4228; 4312; 4375; 4444; 4717; 5298
MvrI	CGAT!CG	0	
MwoI	GCNNNNN!NNGC	41	90; 212; 244; 283; 376; 400; 797; 872; 1013; 1142; 1214; 1231; 1278; 1327; 1493; 1568; 1709; 1838; 1910; 1927; 1974; 2023; 2650; 2680; 2707; 2749; 2990; 3062; 3113; 3192; 3414; 3498; 3521; 3660; 3783; 3866; 4133; 4320; 4524; 4723; 5295
NaeI	GCC!GGC	5	789; 1485; 2642; 3925; 4208
NarI	GG!CGCC	3	824; 1520; 3423
NciI	CC!SGG	12	657; 658; 1247; 1332; 1370; 1371; 1943; 2028; 3427; 3587; 4200; 4964
NcoI	C!CATGG	4	360; 677; 3152; 3855

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
NdeI	CA!TATG	1	234
NdeII	!GATC	27	585; 609; 660; 905; 1025; 1187; 1363; 1601; 1721; 1883; 2080; 3260; 3264; 3283; 3594; 3672; 3753; 3762; 3840; 4216; 4232; 4591; 4603; 4681; 4689; 4700; 4775
NgoAVIII	GACNNNNNTGANNNNNNNNNNNN!	1	280
NgoAVIII	!NNNNNNNNNNNTCANNNNNGTC	0	
NgoAVIII	TCANNNNNGTCNNNNNNNNNNNN!	0	
NgoAVIII	!NNNNNNNNNNNGACNNNNNTGA	1	244
NgoMIV	G!CCGGC	5	787; 1483; 2640; 3923; 4206
NheI	G!CTAGC	1	591
NlaIII	CATG!	22	304; 364; 681; 726; 804; 1245; 1422; 1500; 1941; 2853; 2993; 3065; 3156; 3297; 3642; 3828; 3859; 3885; 4241; 4625; 5345; 5396
NlaIV	GGN!NCC	35	467; 647; 655; 662; 732; 792; 825; 857; 1050; 1071; 1103; 1183; 1273; 1428; 1488; 1521; 1553; 1746; 1767; 1799; 1879; 1969; 2578; 2599; 2611; 2802; 2963; 3035; 3424; 3459; 4307; 4386; 4431; 5274; 5313
NlaCI	CATCACNNNNNNNNNNNNNNNNNN!	3	2255; 2570; 4162
NlaCI	!NNNNNNNNNNNNNNNNNGTGATG	6	347; 1057; 1138; 1753; 1834; 5234
Nli3877I	CYCGR!G	10	617; 660; 938; 1130; 1352; 1373; 1634; 1826; 2048; 2067
NmeAIII	GCCGAGNNNNNNNNNNNNNNNNNN!	4	927; 1623; 3212; 3648
NmeAIII	!NNNNNNNNNNNNNNNNNNCTCGGC	1	3177
NmeDI	RCCGGYNNNNNNNN!	9	678; 799; 1190; 1495; 1886; 2652; 3754; 3935; 4218
NmeDI	!NNNNNNNNNNNNRCCGGY	9	653; 774; 1165; 1470; 1861; 2627; 3729; 3910; 4193
NmuCI	!GTSAC	5	813; 1509; 2712; 3543; 3849
NotI	GC!GGCCGC	0	
NruI	TCG!CGA	0	
NsbI	TGC!GCA	3	709; 1405; 3525
NsiI	ATGCA!T	3	2995; 3067; 5398
NspI	RCATG!Y	4	2993; 3065; 3828; 5345
NspV	TT!CGAA	2	627; 4105
OliI	CACNN!NNGTG	3	679; 1114; 1810
PabI	GTA!C	20	220; 245; 300; 333; 384; 541; 648; 722; 872; 1124; 1304; 1316; 1337; 1418; 1568; 1820; 2000; 2012; 2033; 3730
PacI	TTAAT!TAA	0	
PaeI	GCATG!C	3	2993; 3065; 3828
PaeR7I	C!TCGAG	2	613; 2063
PagI	T!CATGA	2	2849; 4621
PalAI	GG!CGCGCC	0	
PasI	CC!CWGGG	2	4388; 4491
PauI	G!CGCGC	2	1230; 1926
PceI	AGG!CCT	1	3244
PciI	A!CATGT	1	5341
PciSI	GCTCTCN!	0	
PciSI	!NNNNGAAGAGC	2	3767; 3977
PcsI	WCGNNNN!NNNCGW	10	1304; 1322; 2000; 2018; 3717; 3794; 4037; 4111; 4504; 5022
PctI	GAATGCN!	1	2174
PctI	G!CATTC	1	2267
PdiI	GCC!GGC	5	789; 1485; 2642; 3925; 4208
PdmI	GAANN!NNTTC	0	
PfeI	G!AWTC	7	806; 1502; 3908; 4042; 4152; 4189; 5367
Pfl23II	C!GTACG	0	
PfIFI	GACN!NNGTC	1	3541
PfIMI	CCANNNN!NTGG	0	
PfoI	T!CCNGGA	1	4198
PhoI	GG!CC	41	84; 277; 655; 689; 743; 856; 1070; 1148; 1162; 1225; 1321; 1330; 1357; 1385; 1439; 1552; 1766; 1844; 1858; 1921; 2017; 2026; 2053; 2069; 2389; 2531; 3186; 3192; 3201; 3244; 3331; 3505; 3896; 3923; 4432; 4489; 4522; 4867; 5301; 5319; 5330
PinAI	A!CCGGT	1	666
PlaDI	CATCAGNNNNNNNNNNNNNNNNNN!	1	3804
PlaDI	!NNNNNNNNNNNNNNNNNNCTGATG	2	3369; 3624
PleI	GAGTCNNNN!	2	2474; 2906
PleI	!NNNNNGACTC	6	404; 598; 2068; 2482; 4088; 4965
Ple19I	CGAT!CG	0	
PmaCI	CAC!GTG	2	813; 1509

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
PmeI	GTTT!AAAC	0	
PmlI	CAC!GTG	2	813; 1509
PpiI	GAACNNNNNCTCNNNNNNNNNNNNNN!	1	2505
PpiI	!NNNNNNNNNGAGNNNNNGTTC	1	4635
PpiI	GAGNNNNNGTTCNNNNNNNNNNNN!	1	4667
PpiI	!NNNNNNNGAACNNNNNCTC	1	2473
PpsI	GAGTCNNNN!	2	2474; 2906
PpsI	!NNNNNGACTC	6	404; 598; 2068; 2482; 4088; 4965
Ppu10I	A!TGCAT	3	2991; 3063; 5394
Ppu21I	YAC!GTR	5	340; 813; 1509; 2539; 3727
PpuMI	RG!GWCCY	2	881; 1577
PscI	A!CATGT	1	5341
PshAI	GACNN!NNGTC	0	
PshBI	AT!TAAT	1	7
PsiI	TTA!TAA	2	2206; 2411
PspO3I	GGWC!C	4	884; 1580; 3942; 4387
Psp5II	RG!GWCCY	2	881; 1577
Psp6I	!CCWGG	19	88; 281; 851; 946; 995; 1007; 1547; 1642; 1691; 1703; 2957; 3012; 3029; 3808; 4387; 4490; 5180; 5193; 5314
Psp1406I	AA!CGTT	0	
Psp124BI	GAGCT!C	1	620
PspCI	CAC!GTG	2	813; 1509
PspEI	G!GTNACC	0	
PspGI	!CCWGG	19	88; 281; 851; 946; 995; 1007; 1547; 1642; 1691; 1703; 2957; 3012; 3029; 3808; 4387; 4490; 5180; 5193; 5314
PspLI	C!GTACG	0	
PspN4I	GGN!NCC	35	467; 647; 655; 662; 732; 792; 825; 857; 1050; 1071; 1103; 1183; 1273; 1428; 1488; 1521; 1553; 1746; 1767; 1799; 1879; 1969; 2578; 2599; 2611; 2802; 2963; 3035; 3424; 3459; 4307; 4386; 4431; 5274; 5313
PspOMI	G!GGCCC	1	653
PspOMII	CGCCCARNNNNNNNNNNNNNNNNNNNN!	3	125; 3153; 4152
PspOMII	!NNNNNNNNNNNNNNNNNYTGGGCG	1	3555
PspPI	G!GNCC	19	83; 276; 654; 855; 881; 1069; 1161; 1329; 1551; 1577; 1765; 1857; 2025; 2530; 3939; 4384; 4430; 4488; 4521
PspPPI	RG!GWCCY	2	881; 1577
PspPRI	CCYAGNNNNNNNNNNNNNNNN!	3	2976; 3048; 4554
PspPRI	!NNNNNNNNNNNNNNNNCTGRGG	2	2889; 4084
PspXI	VC!TCGAGB	1	2063
PsrI	GAACNNNNNTACNNNNNNNNNNNN!	2	762; 1458
PsrI	!NNNNNNNGTANNNNNNGTTC	0	
PsrI	GTANNNNNNGTTCNNNNNNNNNNNN!	0	
PsrI	!NNNNNNNGAACNNNNNNTAC	2	730; 1426
PssI	RGGNC!CY	3	884; 1580; 4524
PstI	CTGCA!G	1	638
PstNI	CAGNN!CTG	4	1281; 1977; 4524; 4932
PsuI	R!GATCY	13	585; 609; 660; 905; 1363; 1601; 3594; 3840; 4232; 4591; 4603; 4689; 4700
PsyI	GACN!NNGTC	1	3541
PteI	G!CGCGC	2	1230; 1926
PvuI	CGAT!CG	0	
PvuII	CAG!CTG	2	2921; 3529
RcaI	T!CATGA	2	2849; 4621
RceI	CATCGACNNNNNNNNNNNNNNNNNN!	1	3938
RceI	!NNNNNNNNNNNNNNNNNGTCGATG	0	
RgaI	GCGAT!CGC	0	
RigI	GGCCGG!CC	0	
RleAI	CCCACANNNNNNNNNNNNNN!	1	2152
RleAI	!NNNNNNNNNTGTGGG	0	
RpaBI	CCCGCAGNNNNNNNNNNNNNNNNNN!	0	
RpaBI	!NNNNNNNNNNNNNNNNNNCTGCGGG	0	
RpaB5I	CGRGCACNNNNNNNNNNNNNNNNNN!	2	995; 1691
RpaB5I	!NNNNNNNNNNNNNNNNNGTCCYCG	0	
RruI	TCG!CGA	0	
RsaI	GT!AC	20	219; 244; 299; 332; 383; 540; 647; 721; 871; 1123; 1303; 1315; 1336; 1417; 1567; 1819; 1999; 2011; 2032; 3729

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
RsaNI	G!TAC	20	218; 243; 298; 331; 382; 539; 646; 720; 870; 1122; 1302; 1314; 1335; 1416; 1566; 1818; 1998; 2010; 2031; 3728
RseI	CAYNN!NNRTG	7	365; 679; 715; 1114; 1411; 1810; 3860
RsrII	CG!GWCCG	1	3939
Rsr2I	CG!GWCCG	1	3939
SacI	GAGCT!C	1	620
SacII	CCGC!GG	1	652
SalI	G!TCGAC	1	639
SapI	GCTCTTCN!	0	
SapI	!NNNNGAAGAGC	2	3767; 3977
SaqAI	T!TAA	15	7; 2124; 2185; 2306; 2327; 2338; 2350; 2361; 2378; 2476; 2747; 4566; 4580; 4585; 4637
SatI	GC!NGC	45	687; 864; 876; 978; 1092; 1095; 1146; 1282; 1383; 1560; 1572; 1674; 1788; 1791; 1842; 1978; 2070; 2200; 2719; 2741; 2755; 3193; 3332; 3384; 3395; 3485; 3490; 3527; 3568; 3655; 3658; 3661; 3897; 3993; 4034; 4048; 4162; 4501; 4516; 4727; 4933; 4936; 5001; 5144; 5299
Sau96I	G!GNCC	19	83; 276; 654; 855; 881; 1069; 1161; 1329; 1551; 1577; 1765; 1857; 2025; 2530; 3939; 4384; 4430; 4488; 4521
Sau3AI	!GATC	27	585; 609; 660; 905; 1025; 1187; 1363; 1601; 1721; 1883; 2080; 3260; 3264; 3283; 3594; 3672; 3753; 3762; 3840; 4216; 4232; 4591; 4603; 4681; 4689; 4700; 4775
SbfI	CCTGCA!GG	0	
ScaI	AGT!ACT	2	1303; 1999
SchI	GAGTCNNNNN!	2	2475; 2907
SchI	!NNNNNGACTC	6	404; 598; 2068; 2482; 4088; 4965
SciI	CTC!GAG	2	615; 2065
ScrFI	CC!NGG	31	90; 283; 657; 658; 853; 948; 997; 1009; 1247; 1332; 1370; 1371; 1549; 1644; 1693; 1705; 1943; 2028; 2959; 3014; 3031; 3427; 3587; 3810; 4200; 4389; 4492; 4964; 5182; 5195; 5316
SdaI	CCTGCA!GG	0	
SdeAI	CAGRAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN!	4	3001; 3073; 3242; 5184
SdeAI	!NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTYCTG	2	3578; 4063
SdeOSI	GACNNNNRTGANNNNNNNNNNNNNNNNNNNNN!	1	279
SdeOSI	!NNNNNNNNNNNTCAYNNNNNGTC	0	
SdeOSI	TCAYNNNNNGTCNNNNNNNNNNNNNNNNNNNN!	0	
SdeOSI	!NNNNNNNNNNNGACNNNNNRTGA	1	245
SduI	GDGCH!C	18	620; 657; 733; 893; 1046; 1106; 1429; 1589; 1742; 1802; 2614; 3369; 3462; 3536; 3726; 3788; 4498; 5031
SelI	!CGCG	18	58; 649; 1230; 1926; 2070; 2345; 2721; 2741; 2765; 2796; 3487; 3788; 4226; 4310; 4373; 4442; 4715; 5296
SetI	ASST!	79	125; 137; 178; 261; 308; 342; 447; 552; 568; 620; 626; 815; 886; 931; 949; 967; 1037; 1043; 1118; 1157; 1172; 1187; 1210; 1313; 1346; 1511; 1582; 1627; 1645; 1663; 1733; 1739; 1814; 1853; 1868; 1883; 1906; 2009; 2042; 2113; 2134; 2143; 2155; 2204; 2371; 2486; 2498; 2541; 2578; 2628; 2651; 2775; 2923; 3018; 3211; 3324; 3452; 3531; 3542; 3614; 3685; 3729; 3989; 4135; 4179; 4510; 4541; 4600; 4643; 4786; 4807; 4906; 5043; 5058; 5077; 5089; 5133; 5179; 5230
SexAI	A!CCWGGT	1	3012
SfaAI	GCGAT!CGC	0	
SfaNI	GCATCNNNNN!	10	719; 989; 1415; 1685; 2239; 3002; 3074; 3722; 3786; 4061
SfaNI	!NNNNNNNNNNNGATGC	7	357; 1268; 1964; 3381; 3636; 3852; 5244
SfcI	C!TRYAG	4	634; 2758; 4885; 5076
SfiI	GGCCNNNN!NGGCC	3	1327; 2023; 3198
SfoI	GGC!GCC	3	825; 1521; 3424
Sfr274I	C!TCGAG	2	613; 2063
Sfr303I	CCGC!GG	1	652
SfuI	TT!CGAA	2	627; 4105

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SgeI	CNNGNNNNNNNNNN!	229	6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 625; 662; 679; 702; 726; 747; 765; 800; 813; 831; 864; 879; 900; 915; 933; 946; 959; 981; 996; 1009; 1035; 1057; 1072; 1086; 1110; 1125; 1138; 1161; 1176; 1191; 1217; 1230; 1243; 1258; 1281; 1311; 1329; 1343; 1356; 1381; 1398; 1422; 1443; 1461; 1496; 1509; 1527; 1560; 1575; 1596; 1611; 1629; 1642; 1655; 1677; 1692; 1705; 1731; 1753; 1768; 1782; 1806; 1821; 1834; 1857; 1872; 1887; 1913; 1926; 1939; 1954; 1977; 2007; 2025; 2039; 2052; 2075; 2090; 2130; 2159; 2201; 2284; 2358; 2442; 2464; 2496; 2533; 2551; 2570; 2585; 2627; 2644; 2661; 2696; 2710; 2727; 2749; 2773; 2797; 2862; 2876; 2914; 2930; 2970; 2983; 3002; 3025; 3042; 3055; 3074; 3104; 3125; 3142; 3165; 3200; 3227; 3258; 3280; 3306; 3328; 3347; 3375; 3411; 3430; 3453; 3467; 3487; 3500; 3514; 3533; 3547; 3566; 3598; 3612; 3625; 3651; 3682; 3695; 3712; 3729; 3743; 3760; 3778; 3793; 3821; 3837; 3856; 3878; 3894; 3917; 3936; 3961; 3980; 4000; 4027; 4051; 4084; 4103; 4131; 4145; 4211; 4235; 4250; 4273; 4294; 4311; 4359; 4386; 4400; 4429; 4453; 4486; 4503; 4523; 4536; 4549; 4607; 4634; 4653; 4683; 4708; 4728; 4742; 4767; 4785; 4822; 4860; 4889; 4917; 4931; 4951; 4966; 4987; 5001; 5020; 5038; 5054; 5094; 5114; 5141; 5159; 5180; 5193; 5206; 5223; 5247; 5270; 5302; 5327; 5354; 5376
SgeI	!NNNNNNNNNNNNCNG	194	10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 599; 636; 653; 676; 700; 721; 739; 774; 797; 817; 838; 865; 889; 907; 933; 955; 982; 1009; 1031; 1058; 1084; 1112; 1135; 1165; 1191; 1213; 1232; 1255; 1285; 1303; 1330; 1355; 1372; 1396; 1417; 1435; 1470; 1493; 1513; 1534; 1561; 1585; 1603; 1629; 1651; 1678; 1705; 1727; 1754; 1780; 1808; 1831; 1861; 1887; 1909; 1928; 1951; 1981; 1999; 2026; 2049; 2104; 2133; 2175; 2258; 2332; 2416; 2438; 2470; 2507; 2525; 2544; 2601; 2618; 2635; 2670; 2688; 2708; 2728; 2747; 2771; 2836; 2888; 2944; 2976; 2999; 3016; 3048; 3078; 3099; 3116; 3139; 3174; 3201; 3232; 3254; 3280; 3302; 3321; 3349; 3385; 3404; 3427; 3448; 3466; 3483; 3507; 3540; 3572; 3599; 3625; 3656; 3686; 3703; 3729; 3752; 3773; 3795; 3815; 3835; 3852; 3891; 3910; 3935; 3954; 3974; 4001; 4025; 4058; 4077; 4105; 4127; 4185; 4209; 4228; 4247; 4268; 4285; 4333; 4360; 4380; 4403; 4427; 4460; 4477; 4497; 4523; 4581; 4608; 4627; 4657; 4682; 4702; 4741; 4759; 4796; 4834; 4863; 4891; 4912; 4940; 4961; 4994; 5012; 5068; 5088; 5115; 5133; 5154; 5180; 5197; 5221; 5244; 5276; 5301; 5328; 5350; 5379
SgfI	GCGAT!CGC	0	
SgrAI	CR!CCGGYG	0	
SgrBI	CCGC!GG	1	652
SgrDI	CG!TCGACG	0	
SgsI	GG!CGCGCC	0	
SimI	GG!GTC	4	27; 2570; 4357; 5150
SimI	!GACCC	4	106; 3851; 4419; 4667
SinI	G!GWCC	4	881; 1577; 3939; 4384
SlaI	C!TCGAG	2	613; 2063
SmaI	CCC!GGG	2	658; 1371
SmiI	ATTT!AAAT	0	
SmiMI	CAYNN!NNRTG	7	365; 679; 715; 1114; 1411; 1810; 3860
SmlI	C!TYRAG	8	613; 619; 2063; 2305; 3814; 4696; 4973; 5235
SmoI	C!TYRAG	8	613; 619; 2063; 2305; 3814; 4696; 4973; 5235
SmuI	CCCGCNNNN!	10	93; 119; 286; 1068; 1764; 2745; 3100; 3121; 4317; 4449
SmuI	!NNNNNNGCGGG	6	644; 2676; 3546; 4083; 4221; 4368
SnaBI	TAC!GTA	1	340
SpeI	A!CTAGT	0	
SphI	GCATG!C	3	2993; 3065; 3828
SrfI	GCCC!GGGC	0	
Sse9I	!AATT	11	18; 629; 2173; 2237; 2315; 2341; 2352; 2999; 3071; 3163; 4581
Sse8387I	CTGCA!GG	0	
Sse8647I	AG!GWCCCT	2	881; 1577
SseBI	AGG!CCT	1	3244
SsiI	C!CGC	39	58; 86; 98; 112; 279; 507; 589; 649; 899; 989; 1061; 1595; 1685; 1757; 2070; 2738; 2741; 2755; 2845; 3093; 3105; 3114; 3126; 3136; 3147; 3193; 3332; 3395; 3897; 3942; 4008; 4034; 4159; 4162; 4310; 4442; 4749; 4893; 5389

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
SsiI	G!CGG	36	370; 403; 528; 651; 686; 977; 1091; 1094; 1145; 1284; 1382; 1673; 1787; 1790; 1841; 1980; 2683; 2710; 2798; 2908; 3489; 3553; 3654; 3657; 3937; 3992; 4090; 4228; 4375; 4515; 4758; 5003; 5124; 5143; 5270; 5298
SspI	AAT!ATT	2	2331; 2884
SspDI	G!GCGCC	3	823; 1519; 3422
SspD5I	GGTGANNNNNNNN!	7	376; 693; 1047; 1389; 1743; 4494; 4610
SspD5I	!NNNNNNNNNTCACC	6	935; 1250; 1631; 1946; 2539; 3600
SstI	GAGCT!C	1	620
SstII	CCG!GG	1	652
SstE37I	CGAAGACNNNNNNNNNNNNNNNNNNNNNN!	0	
SstE37I	!NNNNNNNNNNNNNNNNNNNGTCTTCG	0	
Sth132I	CCCGNNNN!	33	92; 118; 285; 663; 917; 941; 1067; 1079; 1133; 1253; 1338; 1355; 1376; 1613; 1637; 1763; 1775; 1829; 1949; 2034; 2051; 2622; 2744; 3099; 3120; 3433; 3836; 3975; 4046; 4316; 4448; 4678; 5116
Sth132I	!NNNNNNNNCCGGG	20	15; 407; 470; 643; 1362; 2623; 2675; 2776; 3503; 3545; 3578; 4082; 4191; 4220; 4367; 4471; 4502; 4955; 4999; 5207
Sth302II	CC!GG	34	602; 658; 668; 789; 1150; 1180; 1213; 1248; 1270; 1333; 1371; 1485; 1846; 1876; 1909; 1944; 1966; 2029; 2642; 3329; 3406; 3428; 3456; 3587; 3677; 3744; 3925; 4200; 4208; 4300; 4774; 4964; 4990; 5137
StrI	C!TCGAG	2	613; 2063
StsI	GGATGNNNNNNNNNN!	5	1387; 3291; 3748; 3773; 4227
StsI	!NNNNNNNNNNNNNNCATCC	7	834; 966; 1251; 1530; 1662; 1947; 3095
StuI	AGG!CCT	1	3244
StyI	C!CWGG	6	360; 677; 3152; 3245; 3855; 4260
StyD4I	!CCNGG	31	88; 281; 655; 656; 851; 946; 995; 1007; 1245; 1330; 1368; 1369; 1547; 1642; 1691; 1703; 1941; 2026; 2957; 3012; 3029; 3425; 3585; 3808; 4198; 4387; 4490; 4962; 5180; 5193; 5314
SwaI	ATTT!AAAT	0	
Taal	ACN!GT	16	76; 198; 269; 543; 581; 645; 735; 1431; 2514; 3803; 3919; 4027; 4350; 4841; 5311; 5382
TaiI	ACGT!	18	125; 137; 178; 261; 342; 447; 815; 1157; 1511; 1853; 2486; 2498; 2541; 2651; 3542; 3729; 4510; 4643
TaqI	T!CGA	19	614; 627; 640; 845; 1307; 1541; 2003; 2064; 2572; 3263; 3536; 3692; 3716; 3752; 3914; 4105; 4150; 4405; 5243
TaqII	GACCGANNNNNNNNNN!	5	832; 1528; 2443; 3460; 4128
TaqII	!NNNNNNNNNTCGGTC	1	4372
TaqII	CACCCANNNNNNNNNN!	2	808; 1504
TaqII	!NNNNNNNNNTGGGTG	3	172; 3327; 3919
TasI	!AATT	11	18; 629; 2173; 2237; 2315; 2341; 2352; 2999; 3071; 3163; 4581
TatI	W!GTACW	8	217; 297; 330; 381; 719; 1301; 1415; 1997
TauI	GCSG!C	26	689; 980; 1094; 1097; 1148; 1385; 1676; 1790; 1793; 1844; 2072; 2743; 2757; 3195; 3334; 3397; 3492; 3657; 3660; 3899; 3995; 4036; 4164; 4518; 5146; 5301
TfiI	G!AWTC	7	806; 1502; 3908; 4042; 4152; 4189; 5367
TliI	C!TCGAG	2	613; 2063
Tru1I	T!TAA	15	7; 2124; 2185; 2306; 2327; 2338; 2350; 2361; 2378; 2476; 2747; 4566; 4580; 4585; 4637
Tru9I	T!TAA	15	7; 2124; 2185; 2306; 2327; 2338; 2350; 2361; 2378; 2476; 2747; 4566; 4580; 4585; 4637
TscAI	CASTGNN!	5	2269; 3552; 4662; 4933; 4946
TseI	G!CWGC	19	863; 875; 1281; 1559; 1571; 1977; 2199; 2718; 3383; 3484; 3526; 3567; 3660; 4047; 4500; 4726; 4932; 4935; 5000
TsoI	TARCCANNNNNNNNNN!	2	2395; 2742
TsoI	!NNNNNNNNNTGGYTA	2	2200; 3952
Tsp45I	!GTSAC	5	813; 1509; 2712; 3543; 3849
Tsp509I	!AATT	11	18; 629; 2173; 2237; 2315; 2341; 2352; 2999; 3071; 3163; 4581
TspDTI	ATGAANNNNNNNNNN!	5	1093; 1789; 2181; 3482; 4186
TspDTI	!NNNNNNNNNTTCAT	4	26; 3900; 4356; 4563
TspEI	!AATT	11	18; 629; 2173; 2237; 2315; 2341; 2352; 2999; 3071; 3163; 4581
TspGWI	ACGGANNNNNNNNNN!	1	4298
TspGWI	!NNNNNNNNNTCCGT	0	
TspMI	C!CCGGG	2	656; 1369
TspRI	CASTGNN!	5	2269; 3552; 4662; 4933; 4946
TstI	CACNNNNNNNTCCNNNNNNNNNN!	0	

Enzyme name	Sequence	Count	Cutting Position (the base to the left of the cut site)
TstI	!NNNNNNNGGANNNNNGTG	0	
TstI	GGANNNNNGTGNNNNNNNNNNNN!	0	
TstI	!NNNNNNNNCACNNNNNTCC	0	
Tth111I	GACN!NNGTC	1	3541
Tth111II	CAARCANNNNNNNNNN!	3	937; 1633; 4750
Tth111III	!NNNNNNNNNTGYTTG	3	3858; 4718; 4757
UnbI	!GGNCC	19	82; 275; 653; 854; 880; 1068; 1160; 1328; 1550; 1576; 1764; 1856; 2024; 2529; 3938; 4383; 4429; 4487; 4520
Van9I	CCANNNN!NTGG	0	
Vha464I	C!TTAAG	1	2305
VneI	G!TGCAC	5	889; 1042; 1585; 1738; 5027
VpaK11AI	!GGWCC	4	880; 1576; 3938; 4383
VpaK11BI	G!GWCC	4	881; 1577; 3939; 4384
VspI	AT!TAAT	1	7
XagI	CCTNN!NNNAGG	2	694; 1390
XapI	R!AATTY	4	629; 2237; 2341; 2352
XbaI	T!CTAGA	1	2077
XceI	RCATG!Y	4	2993; 3065; 3828; 5345
XcmI	CCANNNN!NNNTGG	2	1113; 1809
XhoI	C!TCGAG	2	613; 2063
XhoII	R!GATCY	13	585; 609; 660; 905; 1363; 1601; 3594; 3840; 4232; 4591; 4603; 4689; 4700
XmaI	C!CCGGG	2	656; 1369
XmaJI	C!CTAGG	2	3245; 4260
XmiI	GT!MKAC	1	640
XmnI	GAANN!NNTTC	0	
XspI	C!TAG	8	592; 2078; 2272; 2690; 3246; 4261; 4595; 4848
ZraI	GAC!GTC	4	123; 176; 259; 445
ZrmI	AGT!ACT	2	1303; 1999
Zsp2I	ATGCA!T	3	2995; 3067; 5398