

pTagBFP-tubulin vector

Table of restriction sites

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|---------------------------|-------|---|
| AanI | TTA!TAA | 2 | 2828; 3033 |
| AarI | CACCTGCNNNN! | 0 | |
| AarI | !NNNNNNNNNGCAGGTG | 0 | |
| AasI | GACNNNN!NNGTC | 3 | 3116; 4072; 5861 |
| AatI | AGG!CCT | 3 | 1030; 2482; 3866 |
| AatII | GACGT!C | 4 | 125; 178; 261; 447 |
| AbsI | CC!TCGAGG | 0 | |
| AccI | GT!MKAC | 3 | 1181; 1526; 1934 |
| AccII | CG!CG | 15 | 60; 2933; 2969; 3345; 3365; 3389; 3420; 4111; 4412; 4850; 4934; 4997; 5066; 5339; 5920 |
| AccIII | T!CCGGA | 1 | 1306 |
| Acc16I | TGC!GCA | 1 | 4147 |
| Acc36I | ACCTGCNNNN! | 2 | 4313; 4763 |
| Acc36I | !NNNNNNNNNGCAGGT | 1 | 3932 |
| Acc65I | G!GTACC | 0 | |
| AccB1I | G!GYRCC | 10 | 465; 655; 715; 1564; 2100; 2360; 2409; 3198; 4044; 4079 |
| AccB7I | CCANNNN!NTGG | 1 | 2352 |
| AccBSI | CCG!CTC | 2 | 3469; 4658 |
| AccBSI | GAG!CGG | 2 | 3305; 4712 |
| AceIII | CAGCTCNNNNNNN! | 3 | 1588; 1606; 3001 |
| AceIII | !NNNNNNNNNNNGAGCTG | 3 | 552; 601; 2429 |
| AciI | C!CGC | 37 | 58; 86; 98; 112; 279; 507; 589; 914; 1052; 1154; 1572; 2007; 2112; 3360; 3363; 3377; 3467; 3715; 3727; 3736; 3748; 3758; 3769; 3815; 3954; 4017; 4519; 4564; 4630; 4656; 4781; 4784; 4932; 5064; 5371; 5515; 6011 |
| AciI | G!CGG | 27 | 370; 403; 528; 595; 749; 1061; 1103; 3305; 3332; 3420; 3530; 4111; 4175; 4276; 4279; 4559; 4614; 4712; 4850; 4997; 5137; 5380; 5625; 5746; 5765; 5892; 5920 |
| AclI | AA!CGTT | 0 | |
| AclWI | GGATCNNNN! | 9 | 2688; 2697; 3913; 4224; 4470; 4862; 5221; 5319; 5405 |
| AclWI | !NNNNNGATCC | 7 | 580; 1136; 2675; 4289; 4833; 5220; 5317 |
| AcoI | Y!GGCCR | 9 | 1259; 1350; 1422; 2129; 2426; 3951; 4125; 4516; 4543 |
| AcsI | R!AATY | 5 | 1685; 2083; 2859; 2963; 2974 |
| AcuI | CTGAAGNNNNNNNNNNNNNNN! | 3 | 1111; 4191; 4623 |
| AcuI | !NNNNNNNNNNNNNNCTTCAG | 3 | 1464; 1702; 5421 |
| AcvI | CAC!GTG | 1 | 1506 |
| AcyI | GR!CGYC | 8 | 122; 175; 258; 444; 1178; 4045; 4747; 4826 |
| AdeI | CACNNN!GTG | 2 | 1251; 3161 |
| AfaI | GT!AC | 12 | 219; 244; 299; 332; 383; 540; 646; 1048; 2278; 2435; 2545; 4351 |
| AfeI | AGC!GCT | 0 | |
| AfiI | CCNNNNN!NNGG | 25 | 49; 712; 825; 1057; 1677; 1782; 2248; 2352; 2430; 2610; 3057; 3383; 3775; 4026; 4570; 4851; 4883; 5015; 5050; 5100; 5132; 5485; 5764; 5930; 5948 |
| AfIII | C!TTAAG | 0 | |
| AfIII | A!CRYGT | 2 | 2931; 5963 |
| AgeI | A!CCGGT | 1 | 1711 |
| AgsI | TTS!AA | 10 | 678; 846; 1470; 2376; 2644; 3456; 3500; 3510; 3923; 5499 |
| AhdI | GACNNN!NNGTC | 0 | |
| AhlI | A!CTAGT | 0 | |
| AjiI | CAC!GTC | 0 | |
| AjiI | GAC!GTG | 1 | 2289 |
| AjnI | !CCWGG | 26 | 88; 281; 776; 824; 920; 935; 1064; 1173; 1352; 1397; 1847; 1904; 2096; 2412; 2423; 2482; 2492; 3579; 3634; 3651; 4430; 5009; 5112; 5802; 5815; 5936 |
| AjuI | GAANNNNNNTTGGNNNNNNNNNNN! | 0 | |
| AjuI | !NNNNNNCCAANNNNNNNNTTC | 1 | 1810 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|------------------------------|-------|--|
| AjuI | CCAANNNNNNNNTTCNNNNNNNNNNNN! | 1 | 1842 |
| AjuI | !NNNNNNNGAANNNNNNNTTGG | 0 | |
| AleI | CACNN!NNGTG | 1 | 2407 |
| AlfI | GCANNNNNNTGCNNNNNNNNNNNN! | 3 | 1522; 3619; 3691 |
| AlfI | !NNNNNNNNNGCANNNNNNNTGC | 3 | 1488; 3585; 3657 |
| AloI | GAACNNNNNNNTCCNNNNNNNNNNNN! | 3 | 1002; 1426; 3127 |
| AloI | !NNNNNNNGGANNNNNNGTTC | 0 | |
| AloI | GGANNNNNNGTTCNNNNNNNNNNNN! | 0 | |
| AloI | !NNNNNNNGAACNNNNNNNTCC | 3 | 970; 1394; 3095 |
| AluI | AG!CT | 26 | 566; 615; 642; 788; 1095; 1299; 1389; 1578; 1596; 1695; 1742; 1821; 1861; 2178; 2443; 2824; 2991; 3248; 3543; 3831; 4151; 4609; 5406; 5663; 5709; 5799 |
| AluBI | AG!CT | 26 | 566; 615; 642; 788; 1095; 1299; 1389; 1578; 1596; 1695; 1742; 1821; 1861; 2178; 2443; 2824; 2991; 3248; 3543; 3831; 4151; 4609; 5406; 5663; 5709; 5799 |
| AlwI | GGATCNNNN! | 9 | 2688; 2697; 3913; 4224; 4470; 4862; 5221; 5319; 5405 |
| AlwI | !NNNNNGATCC | 7 | 580; 1136; 2675; 4289; 4833; 5220; 5317 |
| Alw21I | GWGCW!C | 7 | 685; 1391; 1711; 1913; 4158; 4348; 5653 |
| Alw26I | GTCTCN! | 2 | 434; 1795 |
| Alw26I | !NNNNNGAGAC | 8 | 1033; 1222; 1480; 2414; 3469; 3887; 4906; 5034 |
| Alw44I | G!TGCAC | 3 | 681; 1707; 5649 |
| AlwNI | CAGNNN!CTG | 3 | 1268; 5146; 5554 |
| Ama87I | C!YCGRG | 3 | 1319; 1511; 1634 |
| Aor13HI | T!CCGGA | 1 | 1306 |
| Aor51HI | AGC!GCT | 0 | |
| ApaI | GGGCC!C | 0 | |
| ApaBI | GCANNNNN!TGC | 4 | 1380; 3613; 3685; 5147 |
| ApaLI | G!TGCAC | 3 | 681; 1707; 5649 |
| ApeKI | G!CWGC | 22 | 800; 944; 1242; 1593; 1618; 2267; 2311; 2339; 2599; 2821; 3340; 4005; 4106; 4148; 4189; 4282; 4669; 5122; 5348; 5554; 5557; 5622 |
| ApoI | R!AATY | 5 | 1685; 2083; 2859; 2963; 2974 |
| ApyPI | ATCGACNNNNNNNNNNNNNNNNNNNN! | 1 | 4560 |
| ApyPI | !NNNNNNNNNNNNNNNNNNNGTCGAT | 3 | 4354; 5007; 5845 |
| AquII | GCCGNACNNNNNNNNNNNNNNNNNNNN! | 1 | 4444 |
| AquII | !NNNNNNNNNNNNNNNNNNNGTNCGGC | 0 | |
| AquIII | GAGGAGNNNNNNNNNNNNNNNNNNNN! | 3 | 1479; 2645; 3873 |
| AquIII | !NNNNNNNNNNNNNNNNNNNCTCCTC | 0 | |
| AquIV | GRGGAAGNNNNNNNNNNNNNNNNNNNN! | 2 | 2588; 2681 |
| AquIV | !NNNNNNNNNNNNNNNNNNNCTCCYC | 2 | 771; 4615 |
| ArsI | GACNNNNNTTYGNNNNNNNNNNNN! | 1 | 2520 |
| ArsI | !NNNNNNCRAANNNNNNNGTC | 0 | |
| ArsI | CRAANNNNNNNGTCNNNNNNNNNNNN! | 0 | |
| ArsI | !NNNNNNNGACNNNNNNNTTYG | 1 | 2488 |
| AscI | GG!CGGCC | 0 | |
| AseI | AT!TAAT | 1 | 7 |
| Asi256I | G!ATC | 26 | 586; 966; 1116; 1142; 1316; 1662; 2193; 2681; 2690; 2703; 3883; 3887; 3906; 4217; 4295; 4376; 4385; 4463; 4839; 4855; 5214; 5226; 5304; 5312; 5323; 5398 |
| AsiGI | A!CCGGT | 1 | 1711 |
| AsiSI | GCGAT!CGC | 0 | |
| AspI | GACN!NNGTC | 1 | 4163 |
| Asp700I | GAANN!NNTTC | 1 | 1758 |
| Asp718I | G!GTACC | 0 | |
| AspA2I | C!CTAGG | 2 | 3867; 4882 |
| AspEI | GACNNN!NNGTC | 0 | |
| AspLEI | GCG!C | 23 | 1495; 1985; 2339; 3311; 3319; 3345; 3367; 3376; 3389; 3420; 4039; 4047; 4111; 4148; 4414; 4674; 4850; 4936; 5339; 5448; 5622; 5722; 5789 |
| AspS9I | G!GNCC | 14 | 83; 276; 751; 994; 1086; 1680; 2496; 2583; 3152; 4561; 5006; 5052; 5110; 5143 |
| AssI | AGT!ACT | 0 | |
| AsuII | TT!CGAA | 1 | 4727 |
| AsuC2I | CC!SGG | 6 | 1512; 1513; 4049; 4209; 4822; 5586 |
| AsuHPI | GGTGANNNNNNNNN! | 8 | 376; 987; 2241; 2296; 2563; 2665; 5116; 5232 |
| AsuHPI | !NNNNNNNTCACC | 7 | 876; 1026; 1761; 1881; 2187; 3162; 4223 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|---------------------------|-------|---|
| AsuNI | G!CTAGC | 1 | 591 |
| AvaI | C!YCGRG | 3 | 1319; 1511; 1634 |
| AvaII | G!GWCC | 4 | 1680; 2496; 4561; 5006 |
| AviII | TGC!GCA | 1 | 4147 |
| AvrII | C!CTAGG | 2 | 3867; 4882 |
| AxyI | CC!TNAGG | 3 | 860; 3525; 5157 |
| BaeI | ACNNNGTAYCNNNNNNNNNN! | 0 | |
| BaeI | !NNNNNNNGRTACNNNNNGT | 1 | 2535 |
| BaeI | GRTACNNNNGTNNNNNNNNNNNN! | 1 | 2568 |
| BaeI | !NNNNNNNNNACNNNNGTAYC | 0 | |
| BaeGI | GKGCMI | 12 | 658; 685; 718; 1295; 1511; 1643; 1711; 2105; 2365; 3991; 4084; 5653 |
| BalI | TGG!CCA | 6 | 1261; 1352; 1424; 2131; 2428; 4127 |
| BamHI | G!GATCC | 1 | 2680 |
| BanI | G!GYRCC | 10 | 465; 655; 715; 1564; 2100; 2360; 2409; 3198; 4044; 4079 |
| BanII | GRGCY!C | 7 | 1391; 1874; 2064; 2490; 3236; 4410; 5120 |
| BanIII | AT!CGAT | 1 | 3885 |
| BarI | GAAGNNNNNTACNNNNNNNNNN! | 0 | |
| BarI | !NNNNNNNGTANNNNNNCTTC | 0 | |
| BarI | GTANNNNNNCTTCNNNNNNNNNN! | 0 | |
| BarI | !NNNNNNNGAAGNNNNNTAC | 0 | |
| BasI | CCANNNN!NTGG | 1 | 2352 |
| BauI | C!ACGAG | 3 | 1246; 4763; 5790 |
| BauI | C!TCGTG | 2 | 1096; 4637 |
| BbeI | GGCGC!C | 1 | 4048 |
| Bbr7I | GAAGACNNNNNN! | 1 | 907 |
| Bbr7I | !NNNNNNNNNNNGTCTTC | 1 | 1703 |
| BbrPI | CAC!GTG | 1 | 1506 |
| BbsI | GAAGACNN! | 1 | 902 |
| BbsI | !NNNNNNGTCTTC | 1 | 1708 |
| BbuI | GCATG!C | 4 | 2454; 3615; 3687; 4450 |
| BbvI | GCAGCNNNNNNNN! | 10 | 812; 1254; 1605; 2351; 2833; 4118; 4160; 4681; 5134; 5634 |
| BbvI | !NNNNNNNNNNNGCTGC | 11 | 931; 1605; 2254; 2298; 2586; 3327; 3992; 4176; 4269; 5335; 5541 |
| Bbv12I | GWGCW!C | 7 | 685; 1391; 1711; 1913; 4158; 4348; 5653 |
| BbvCI | CC!TCAGC | 0 | |
| BbvCI | GC!TGAGG | 1 | 2477 |
| BccI | CCATCNNNN! | 11 | 677; 1118; 1348; 1891; 1954; 2041; 2332; 3175; 3739; 4265; 4767 |
| BccI | !NNNNNGATGG | 7 | 1414; 2050; 2220; 2553; 3143; 3923; 4351 |
| BceAI | ACGGCNNNNNNNNNN! | 7 | 813; 957; 1008; 1074; 1422; 4471; 4958 |
| BceAI | !NNNNNNNNNNNNNGCCGT | 3 | 3186; 4004; 5463 |
| Bcefl | ACGGCNNNNNNNNNN! | 7 | 813; 957; 1008; 1074; 1422; 4471; 4958 |
| Bcefl | !NNNNNNNNNNNNNGCCGT | 3 | 3187; 4005; 5464 |
| BcgI | CGANNNNNNNTGCNNNNNNNNNN! | 0 | |
| BcgI | !NNNNNNNNNNNGCANNNNNNNTCG | 0 | |
| BcgI | GCANNNNNNNTGCNNNNNNNNNN! | 0 | |
| BcgI | !NNNNNNNNNNNCGANNNNNNNTGC | 0 | |
| BciVI | GTATCCNNNNNN! | 3 | 3474; 4264; 5765 |
| BciVI | !NNNNNGGATAC | 0 | |
| BclI | T!GATCA | 1 | 2702 |
| BcnI | CC!SGG | 6 | 1512; 1513; 4049; 4209; 4822; 5586 |
| BcuI | A!CTAGT | 0 | |
| BdaI | TGANNNNNNNTCANNNNNNNNNN! | 2 | 2725; 5898 |
| BdaI | !NNNNNNNNNNNTGANNNNNNNTCA | 2 | 2691; 5864 |
| BfaI | C!TAG | 10 | 592; 785; 1280; 2693; 2894; 3312; 3868; 4883; 5217; 5470 |
| BfiI | ACTGGGNNNNN! | 2 | 1297; 3994 |
| BfiI | !NNNNCCCAGT | 2 | 289; 3746 |
| BfmI | C!TRYAG | 6 | 1194; 1862; 2183; 3380; 5507; 5698 |
| BfoI | RGCGC!Y | 6 | 1496; 1986; 3312; 3320; 4048; 5723 |
| BfrI | C!TTAAG | 0 | |
| BfuI | GTATCCNNNNNN! | 3 | 3474; 4264; 5765 |
| BfuI | !NNNNNGGATAC | 0 | |
| BfuAI | ACCTGCNNNN! | 2 | 4313; 4763 |
| BfuAI | !NNNNNNNNGACAGT | 1 | 3932 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|--------------------------|-------|---|
| BfuCI | !GATC | 26 | 585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397 |
| BglI | GCCNNNN!NGGC | 6 | 90; 212; 283; 1070; 2369; 3820 |
| BglII | A!GATCT | 1 | 1315 |
| BisI | GC!NGC | 39 | 750; 801; 945; 1062; 1243; 1594; 1619; 2268; 2312; 2340; 2600; 2822; 3341; 3363; 3377; 3815; 3954; 4006; 4017; 4107; 4112; 4149; 4190; 4277; 4280; 4283; 4519; 4615; 4656; 4670; 4784; 5123; 5138; 5349; 5555; 5558; 5623; 5766; 5921 |
| BlnI | C!CTAGG | 2 | 3867; 4882 |
| BlpI | GC!TNAGC | 1 | 2455 |
| BlsI | GCN!GC | 39 | 751; 802; 946; 1063; 1244; 1595; 1620; 2269; 2313; 2341; 2601; 2823; 3342; 3364; 3378; 3816; 3955; 4007; 4018; 4108; 4113; 4150; 4191; 4278; 4281; 4284; 4520; 4616; 4657; 4671; 4785; 5124; 5139; 5350; 5556; 5559; 5624; 5767; 5922 |
| BmcAI | AGT!ACT | 0 | |
| Bme18I | G!GWCC | 4 | 1680; 2496; 4561; 5006 |
| Bme1390I | CC!NGG | 32 | 90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1512; 1513; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4049; 4209; 4432; 4822; 5011; 5114; 5586; 5804; 5817; 5938 |
| BmeRI | GACNNN!NNGTC | 0 | |
| BmeT110I | C!YCGRG | 3 | 1319; 1511; 1634 |
| BmgBI | CAC!GTC | 0 | |
| BmgBI | GAC!GTG | 1 | 2289 |
| BmgT120I | GG!NCC | 14 | 84; 277; 752; 995; 1087; 1681; 2497; 2584; 3153; 4562; 5007; 5053; 5111; 5144 |
| BmiI | GGN!NCC | 25 | 467; 657; 717; 1108; 1535; 1566; 2061; 2102; 2294; 2362; 2411; 2682; 3200; 3221; 3233; 3424; 3585; 3657; 4046; 4081; 4929; 5008; 5053; 5896; 5935 |
| BmrI | ACTGGGNNNNN! | 2 | 1297; 3994 |
| BmrI | !NNNNCCCAGT | 2 | 289; 3746 |
| BmrFI | CC!NGG | 32 | 90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1512; 1513; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4049; 4209; 4432; 4822; 5011; 5114; 5586; 5804; 5817; 5938 |
| BmsI | GCATCNNNNN! | 12 | 839; 1343; 1418; 2123; 2351; 2393; 2861; 3624; 3696; 4344; 4408; 4683 |
| BmsI | !NNNNNNNNNGATGC | 9 | 357; 992; 1160; 1418; 1605; 4003; 4258; 4474; 5866 |
| BmtI | GCTAG!C | 1 | 595 |
| BmuI | ACTGGGNNNNN! | 2 | 1297; 3994 |
| BmuI | !NNNNCCCAGT | 2 | 289; 3746 |
| BoxI | GACNN!NNGTC | 2 | 1234; 1958 |
| BpiI | GAAGACNN! | 1 | 902 |
| BpiI | !NNNNNGTCTTC | 1 | 1708 |
| BpI | GAGNNNNNCTCNNNNNNNNNNNN! | 3 | 1353; 3834; 4733 |
| BpI | !NNNNNNNNNGAGNNNNNCTC | 3 | 1321; 3802; 4701 |
| BpmI | CTGGAGNNNNNNNNNNNNNNNN! | 3 | 1843; 1927; 4885 |
| BpmI | !NNNNNNNNNNNNNNNCTCCAG | 2 | 919; 4828 |
| Bpu10I | CC!TNAGC | 1 | 1589 |
| Bpu10I | GC!TNAGG | 1 | 2477 |
| Bpu14I | TT!CGAA | 1 | 4727 |
| Bpu1102I | GC!TNAGC | 1 | 2455 |
| BpuAI | GAAGACNN! | 1 | 902 |
| BpuAI | !NNNNNGTCTTC | 1 | 1708 |
| BpuEI | CTTGAGNNNNNNNNNNNNNNNN! | 3 | 2626; 5339; 5878 |
| BpuEI | !NNNNNNNNNNNNNNNCTCAAG | 3 | 1150; 4421; 5580 |
| BpuMI | CC!SGG | 6 | 1512; 1513; 4049; 4209; 4822; 5586 |
| BpvUI | CGAT!CG | 0 | |
| BsaI | GGTCTCN! | 0 | |
| BsaI | !NNNNNGAGACC | 3 | 1222; 2414; 5034 |
| Bsa29I | AT!CGAT | 1 | 3885 |
| BsaAI | YAC!GTR | 5 | 340; 1506; 2547; 3161; 4349 |
| BsaBI | GATNN!NNATC | 2 | 2707; 3904 |
| BsaHI | GR!CGYC | 8 | 122; 175; 258; 444; 1178; 4045; 4747; 4826 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|---------------------------|-------|---|
| BsaJI | C!CNGGG | 28 | 360; 659; 689; 824; 825; 920; 1510; 1635; 1847; 1904; 2247; 2280; 2429; 2483; 3579; 3651; 3774; 3809; 3818; 3867; 4208; 4477; 4882; 5009; 5010; 5112; 5113; 5803 |
| BsaMI | GAATGCN! | 1 | 2796 |
| BsaMI | G!CATTC | 1 | 2889 |
| BsaWI | W!CCGGW | 7 | 1306; 1711; 2686; 4076; 4920; 5610; 5757 |
| BsaXI | ACNNNNNCTCCNNNNNNNNNN! | 1 | 3125 |
| BsaXI | !NNNNNNNGGAGNNNNNGT | 0 | |
| BsaXI | GGAGNNNNNGTNNNNNNNNNN! | 0 | |
| BsaXI | !NNNNNNNNNACNNNNNCTCC | 1 | 3095 |
| BsbI | CAACACNNNNNNNNNNNNNNNNNN! | 2 | 1496; 2486 |
| BsbI | !NNNNNNNNNNNNNNNNNGTGTG | 3 | 1655; 3046; 4953 |
| Bsc4I | CCNNNNN!NNGG | 25 | 49; 712; 825; 1057; 1677; 1782; 2248; 2352; 2430; 2610; 3057; 3383; 3775; 4026; 4570; 4851; 4883; 5015; 5050; 5100; 5132; 5485; 5764; 5930; 5948 |
| BscAI | GCATCNNNN! | 12 | 838; 1342; 1417; 2122; 2350; 2392; 2860; 3623; 3695; 4343; 4407; 4682 |
| BscAI | !NNNNNGATGC | 9 | 360; 995; 1163; 1421; 1608; 4006; 4261; 4477; 5869 |
| BseI | ACTGGN! | 9 | 1205; 1292; 1566; 1761; 2373; 2545; 3989; 4190; 5436 |
| BseI | C!CAGT | 7 | 295; 1704; 2346; 3074; 3752; 5548; 5561 |
| Bse8I | GATNN!NNATC | 2 | 2707; 3904 |
| Bse2II | CC!TNAGG | 3 | 860; 3525; 5157 |
| Bse118I | R!CCGGY | 5 | 1711; 3262; 4364; 4545; 4828 |
| BseAI | T!CCGGA | 1 | 1306 |
| BseBI | CC!WGG | 26 | 90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4432; 5011; 5114; 5804; 5817; 5938 |
| BseCI | AT!CGAT | 1 | 3885 |
| BseDI | C!CNGGG | 28 | 360; 659; 689; 824; 825; 920; 1510; 1635; 1847; 1904; 2247; 2280; 2429; 2483; 3579; 3651; 3774; 3809; 3818; 3867; 4208; 4477; 4882; 5009; 5010; 5112; 5113; 5803 |
| Bse3DI | GCAATGNN! | 2 | 1380; 4278 |
| Bse3DI | !CATTGC | 2 | 2315; 2471 |
| BseGI | GGATGNN! | 5 | 2564; 3905; 4362; 4387; 4841 |
| BseGI | !CATCC | 10 | 685; 773; 830; 985; 1340; 1409; 1883; 2114; 2342; 3731 |
| BseJI | GATNN!NNATC | 2 | 2707; 3904 |
| BseLI | CCNNNNN!NNGG | 25 | 49; 712; 825; 1057; 1677; 1782; 2248; 2352; 2430; 2610; 3057; 3383; 3775; 4026; 4570; 4851; 4883; 5015; 5050; 5100; 5132; 5485; 5764; 5930; 5948 |
| BseMI | GCAATGNN! | 2 | 1380; 4278 |
| BseMI | !CATTGC | 2 | 2315; 2471 |
| BseMII | CTCAGNNNNNNNNNN! | 3 | 1326; 1808; 5171 |
| BseMII | !NNNNNNNNCTGAG | 11 | 851; 1580; 2038; 2147; 2446; 2468; 3516; 3818; 4699; 5271; 5680 |
| BseNI | ACTGGN! | 9 | 1205; 1292; 1566; 1761; 2373; 2545; 3989; 4190; 5436 |
| BseNI | C!CAGT | 7 | 295; 1704; 2346; 3074; 3752; 5548; 5561 |
| BsePI | G!CGCGC | 0 | |
| BseRI | GAGGAGNNNNNNNNNN! | 3 | 1469; 2635; 3863 |
| BseRI | !NNNNNNNNCTCCTC | 0 | |
| BseSI | GKGC!C | 12 | 658; 685; 718; 1295; 1511; 1643; 1711; 2105; 2365; 3991; 4084; 5653 |
| BseXI | GCAGCNNNNNNNN! | 10 | 812; 1254; 1605; 2351; 2833; 4118; 4160; 4681; 5134; 5634 |
| BseXI | !NNNNNNNNNNNGCTGC | 11 | 931; 1605; 2254; 2298; 2586; 3327; 3992; 4176; 4269; 5335; 5541 |
| BseX3I | C!GGCCG | 1 | 3951 |
| BseYI | C!CCAGC | 4 | 1839; 3588; 3660; 5659 |
| BseYI | G!CTGGG | 3 | 1022; 1382; 4549 |
| BsgI | GTGCAGNNNNNNNNNNNNNNNN! | 0 | |
| BsgI | !NNNNNNNNNNNNNNCTGCAC | 0 | |
| Bsh1236I | CG!CG | 15 | 60; 2933; 2969; 3345; 3365; 3389; 3420; 4111; 4412; 4850; 4934; 4997; 5066; 5339; 5920 |
| Bsh1285I | CGRY!CG | 3 | 599; 3954; 5629 |
| BshFI | GG!CC | 33 | 84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1352; 1424; 1945; 2131; 2428; 2482; 2584; 3011; 3153; 3808; 3814; 3823; 3866; 3953; 4127; 4518; 4545; 5054; 5111; 5144; 5489; 5923; 5941; 5952 |
| BshNI | G!GYRCC | 10 | 465; 655; 715; 1564; 2100; 2360; 2409; 3198; 4044; 4079 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|------------------------|-------|---|
| BshTI | A!CCGGT | 1 | 1711 |
| BshVI | AT!CGAT | 1 | 3885 |
| BsiEI | CGRY!CG | 3 | 599; 3954; 5629 |
| BsiHKAI | GWGCW!C | 7 | 685; 1391; 1711; 1913; 4158; 4348; 5653 |
| BsiHKCI | C!YCGRG | 3 | 1319; 1511; 1634 |
| BsiSI | C!CGG | 20 | 1307; 1512; 1712; 2687; 3263; 3950; 4027; 4049; 4077; 4208; 4298; 4365; 4546; 4821; 4829; 4921; 5395; 5585; 5611; 5758 |
| BsiWI | C!GTACG | 0 | |
| BsII | CCNNNNN!NNGG | 25 | 49; 712; 825; 1057; 1677; 1782; 2248; 2352; 2430; 2610; 3057; 3383; 3775; 4026; 4570; 4851; 4883; 5015; 5050; 5100; 5132; 5485; 5764; 5930; 5948 |
| BsIFI | GGGACNNNNNNNNNN! | 6 | 175; 326; 494; 4196; 4728; 4837 |
| BsIFI | !NNNNNNNNNNNNNGTCCC | 4 | 3561; 3633; 3697; 4992 |
| BsmI | GAATGCN! | 1 | 2796 |
| BsmI | G!CATTC | 1 | 2889 |
| BsmAI | GTCTCN! | 2 | 434; 1795 |
| BsmAI | !NNNNNGAGAC | 8 | 1033; 1222; 1480; 2414; 3469; 3887; 4906; 5034 |
| BsmBI | CGTCTCN! | 1 | 1795 |
| BsmBI | !NNNNNGAGACG | 2 | 1033; 1480 |
| BsmFI | GGGACNNNNNNNNNN! | 6 | 175; 326; 494; 4196; 4728; 4837 |
| BsmFI | !NNNNNNNNNNNNNGTCCC | 4 | 3561; 3633; 3697; 4992 |
| BsnI | GG!CC | 33 | 84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1352; 1424; 1945; 2131; 2428; 2482; 2584; 3011; 3153; 3808; 3814; 3823; 3866; 3953; 4127; 4518; 4545; 5054; 5111; 5144; 5489; 5923; 5941; 5952 |
| Bso31I | GGTCTCN! | 0 | |
| Bso31I | !NNNNNGAGACC | 3 | 1222; 2414; 5034 |
| BsoBI | C!YCGRG | 3 | 1319; 1511; 1634 |
| Bsp13I | T!CCGGA | 1 | 1306 |
| Bsp19I | C!CATGG | 4 | 360; 2247; 3774; 4477 |
| Bsp24I | GACNNNNNTGGNNNNNNNNNN! | 3 | 289; 1511; 4848 |
| Bsp24I | !NNNNNNCCANNNNNGTC | 3 | 2011; 5269; 5447 |
| Bsp24I | CCANNNNNGTCNNNNNNNNNN! | 3 | 2043; 5301; 5479 |
| Bsp24I | !NNNNNNNGACNNNNNTGG | 3 | 257; 1479; 4816 |
| Bsp68I | TCG!CGA | 0 | |
| Bsp119I | TT!CGAA | 1 | 4727 |
| Bsp120I | G!GGCCC | 0 | |
| Bsp143I | !GATC | 26 | 585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397 |
| Bsp1286I | GDGCH!C | 22 | 658; 685; 718; 1295; 1391; 1511; 1643; 1711; 1874; 1913; 2064; 2105; 2365; 2490; 3236; 3991; 4084; 4158; 4348; 4410; 5120; 5653 |
| Bsp1407I | T!GTACA | 1 | 644 |
| Bsp1720I | GC!TNAGC | 1 | 2455 |
| BspACI | C!CGC | 37 | 58; 86; 98; 112; 279; 507; 589; 914; 1052; 1154; 1572; 2007; 2112; 3360; 3363; 3377; 3467; 3715; 3727; 3736; 3748; 3758; 3769; 3815; 3954; 4017; 4519; 4564; 4630; 4656; 4781; 4784; 4932; 5064; 5371; 5515; 6011 |
| BspACI | G!CGG | 27 | 370; 403; 528; 595; 749; 1061; 1103; 3305; 3332; 3420; 3530; 4111; 4175; 4276; 4279; 4559; 4614; 4712; 4850; 4997; 5137; 5380; 5625; 5746; 5765; 5892; 5920 |
| BspCNI | CTCAGNNNNNNNN! | 3 | 1325; 1807; 5170 |
| BspCNI | !NNNNNNCTGAG | 11 | 852; 1581; 2039; 2148; 2447; 2469; 3517; 3819; 4700; 5272; 5681 |
| BspDI | AT!CGAT | 1 | 3885 |
| BspD6I | GACTCNNNN! | 6 | 418; 1318; 1470; 3118; 4724; 5601 |
| BspD6I | !NNNNNGAGTC | 3 | 874; 3081; 3513 |
| BspEI | T!CCGGA | 1 | 1306 |
| BspFNI | CG!CG | 15 | 60; 2933; 2969; 3345; 3365; 3389; 3420; 4111; 4412; 4850; 4934; 4997; 5066; 5339; 5920 |
| BspHI | T!CATGA | 2 | 3471; 5243 |
| BspLI | GGN!NCC | 25 | 467; 657; 717; 1108; 1535; 1566; 2061; 2102; 2294; 2362; 2411; 2682; 3200; 3221; 3233; 3424; 3585; 3657; 4046; 4081; 4929; 5008; 5053; 5896; 5935 |
| BspMI | ACCTGCNNNN! | 2 | 4313; 4763 |
| BspMI | !NNNNNNNGCAGGT | 1 | 3932 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|--------------|-------|---|
| BspOI | GCTAG!C | 1 | 595 |
| BspPI | GGATCNNNN! | 9 | 2688; 2697; 3913; 4224; 4470; 4862; 5221; 5319; 5405 |
| BspPI | !NNNNNGATCC | 7 | 580; 1136; 2675; 4289; 4833; 5220; 5317 |
| BspQI | GCTCTTCN! | 1 | 1585 |
| BspQI | !NNNNGAAGAGC | 2 | 4389; 4599 |
| BspTI | C!TTAAG | 0 | |
| BspT104I | TT!CGAA | 1 | 4727 |
| BspT107I | G!GYRCC | 10 | 465; 655; 715; 1564; 2100; 2360; 2409; 3198; 4044; 4079 |
| BspTNI | GGTCTCN! | 0 | |
| BspTNI | !NNNNNGAGACC | 3 | 1222; 2414; 5034 |
| BsrI | ACTGGN! | 9 | 1205; 1292; 1566; 1761; 2373; 2545; 3989; 4190; 5436 |
| BsrI | C!CAGT | 7 | 295; 1704; 2346; 3074; 3752; 5548; 5561 |
| BsrBI | CCG!CTC | 2 | 3469; 4658 |
| BsrBI | GAG!CGG | 2 | 3305; 4712 |
| BsrDI | GCAATGNN! | 2 | 1380; 4278 |
| BsrDI | !CATTGC | 2 | 2315; 2471 |
| BsrFI | R!CCGGY | 5 | 1711; 3262; 4364; 4545; 4828 |
| BsrGI | T!GTACA | 1 | 644 |
| BsrSI | ACTGGN! | 9 | 1205; 1292; 1566; 1761; 2373; 2545; 3989; 4190; 5436 |
| BsrSI | C!CAGT | 7 | 295; 1704; 2346; 3074; 3752; 5548; 5561 |
| BssAI | R!CCGGY | 5 | 1711; 3262; 4364; 4545; 4828 |
| BssECI | C!CNNGG | 28 | 360; 659; 689; 824; 825; 920; 1510; 1635; 1847; 1904; 2247; 2280; 2429; 2483; 3579; 3651; 3774; 3809; 3818; 3867; 4208; 4477; 4882; 5009; 5010; 5112; 5113; 5803 |
| BssHII | G!CGCGC | 0 | |
| BssKI | !CCNNGG | 32 | 88; 281; 776; 824; 920; 935; 1064; 1173; 1352; 1397; 1510; 1511; 1847; 1904; 2096; 2412; 2423; 2482; 2492; 3579; 3634; 3651; 4047; 4207; 4430; 4820; 5009; 5112; 5584; 5802; 5815; 5936 |
| BssMI | !GATC | 26 | 585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397 |
| BssNI | GR!CGYC | 8 | 122; 175; 258; 444; 1178; 4045; 4747; 4826 |
| BssNAI | GTA!TAC | 0 | |
| BssSI | C!ACGAG | 3 | 1246; 4763; 5790 |
| BssSI | C!TCGTG | 2 | 1096; 4637 |
| BssT1I | C!CWWGG | 7 | 360; 2247; 2429; 3774; 3867; 4477; 4882 |
| Bst6I | CTCTTCN! | 1 | 1585 |
| Bst6I | !NNNNGAAGAG | 3 | 3512; 4389; 4599 |
| Bst98I | C!TTAAG | 0 | |
| Bst1107I | GTA!TAC | 0 | |
| BstACI | GR!CGYC | 8 | 122; 175; 258; 444; 1178; 4045; 4747; 4826 |
| BstAFI | C!TTAAG | 0 | |
| BstAPI | GCANNNN!NTGC | 4 | 1379; 3612; 3684; 5146 |
| BstAUI | T!GTACA | 1 | 644 |
| BstBI | TT!CGAA | 1 | 4727 |
| Bst2BI | C!ACGAG | 3 | 1246; 4763; 5790 |
| Bst2BI | C!TCGTG | 2 | 1096; 4637 |
| BstBAI | YAC!GTR | 5 | 340; 1506; 2547; 3161; 4349 |
| Bst4CI | ACN!GT | 17 | 76; 198; 269; 543; 581; 660; 1542; 2281; 2406; 3136; 4425; 4541; 4649; 4972; 5463; 5933; 6004 |
| BstC8I | GCN!NGC | 42 | 86; 279; 593; 613; 703; 907; 1380; 1501; 1576; 1693; 1697; 2205; 2216; 2265; 2452; 2490; 2528; 3264; 3307; 3321; 3594; 3613; 3666; 3685; 3939; 4125; 4344; 4410; 4416; 4444; 4448; 4489; 4493; 4547; 4830; 5017; 5064; 5120; 5142; 5353; 5913; 5950 |
| BstDEI | C!TNAG | 16 | 860; 1157; 1312; 1589; 1794; 2047; 2156; 2455; 2477; 2676; 3525; 3827; 4708; 5157; 5280; 5689 |
| BstDSI | C!CRYGG | 6 | 360; 659; 2247; 2280; 3774; 4477 |
| BstEII | G!GTNACC | 0 | |
| BstENI | CCTNN!NNNAGG | 2 | 2428; 2608 |
| BstF5I | GGATGNN! | 5 | 2564; 3905; 4362; 4387; 4841 |
| BstF5I | !CATCC | 10 | 685; 773; 830; 985; 1340; 1409; 1883; 2114; 2342; 3731 |
| BstFNI | CG!CG | 15 | 60; 2933; 2969; 3345; 3365; 3389; 3420; 4111; 4412; 4850; 4934; 4997; 5066; 5339; 5920 |
| BstH2I | RGCGC!Y | 6 | 1496; 1986; 3312; 3320; 4048; 5723 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|----------------------|-------|---|
| BstHHI | GCG!C | 23 | 1495; 1985; 2339; 3311; 3319; 3345; 3367; 3376; 3389; 3420; 4039; 4047; 4111; 4148; 4414; 4674; 4850; 4936; 5339; 5448; 5622; 5722; 5789 |
| BstKTI | GAT!C | 26 | 588; 968; 1118; 1144; 1318; 1664; 2195; 2683; 2692; 2705; 3885; 3889; 3908; 4219; 4297; 4378; 4387; 4465; 4841; 4857; 5216; 5228; 5306; 5314; 5325; 5400 |
| BstMAI | GTCTCN! | 2 | 434; 1795 |
| BstMAI | !NNNNNGAGAC | 8 | 1033; 1222; 1480; 2414; 3469; 3887; 4906; 5034 |
| BstMBI | !GATC | 26 | 585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397 |
| BstMCI | CGRY!CG | 3 | 599; 3954; 5629 |
| BstMWI | GCNNNNN!NNGC | 36 | 90; 212; 244; 283; 376; 400; 639; 1070; 1379; 1571; 2015; 2137; 2161; 2317; 2369; 2456; 2527; 3272; 3302; 3329; 3371; 3612; 3684; 3735; 3814; 4036; 4120; 4143; 4282; 4405; 4488; 4755; 4942; 5146; 5345; 5917 |
| BstNI | CC!WGG | 26 | 90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4432; 5011; 5114; 5804; 5817; 5938 |
| BstNSI | RCATG!Y | 6 | 633; 2454; 3615; 3687; 4450; 5967 |
| BstOI | CC!WGG | 26 | 90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4432; 5011; 5114; 5804; 5817; 5938 |
| BstPI | G!GTNACC | 0 | |
| BstPAI | GACNN!NNGTC | 2 | 1234; 1958 |
| BstSCI | !CCNGG | 32 | 88; 281; 776; 824; 920; 935; 1064; 1173; 1352; 1397; 1510; 1511; 1847; 1904; 2096; 2412; 2423; 2482; 2492; 3579; 3634; 3651; 4047; 4207; 4430; 4820; 5009; 5112; 5584; 5802; 5815; 5936 |
| BstSFI | C!TRYAG | 6 | 1194; 1862; 2183; 3380; 5507; 5698 |
| BstSLI | GKGC!C | 12 | 658; 685; 718; 1295; 1511; 1643; 1711; 2105; 2365; 3991; 4084; 5653 |
| BstSNI | TAC!GTA | 1 | 340 |
| BstUI | CG!CG | 15 | 60; 2933; 2969; 3345; 3365; 3389; 3420; 4111; 4412; 4850; 4934; 4997; 5066; 5339; 5920 |
| Bst2UI | CC!WGG | 26 | 90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4432; 5011; 5114; 5804; 5817; 5938 |
| BstV1I | GCAGCNNNNNNN! | 10 | 812; 1254; 1605; 2351; 2833; 4118; 4160; 4681; 5134; 5634 |
| BstV1I | !NNNNNNNNNNNGCTGC | 11 | 931; 1605; 2254; 2298; 2586; 3327; 3992; 4176; 4269; 5335; 5541 |
| BstV2I | GAAGACNN! | 1 | 902 |
| BstV2I | !NNNNNNGTCTTC | 1 | 1708 |
| BstXI | CCANNNNN!NTGG | 3 | 1420; 1744; 2226 |
| BstX2I | R!GATCY | 12 | 585; 1141; 1315; 2680; 2689; 4216; 4462; 4854; 5213; 5225; 5311; 5322 |
| BstYI | R!GATCY | 12 | 585; 1141; 1315; 2680; 2689; 4216; 4462; 4854; 5213; 5225; 5311; 5322 |
| BstZI | C!GGCCG | 1 | 3951 |
| BstZ17I | GTA!TAC | 0 | |
| BsuI | GTATCCNNNNNN! | 3 | 3474; 4264; 5765 |
| BsuI | !NNNNNGGATAC | 0 | |
| Bsu15I | AT!CGAT | 1 | 3885 |
| Bsu36I | CC!TNAGG | 3 | 860; 3525; 5157 |
| BsuRI | GG!CC | 33 | 84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1352; 1424; 1945; 2131; 2428; 2482; 2584; 3011; 3153; 3808; 3814; 3823; 3866; 3953; 4127; 4518; 4545; 5054; 5111; 5144; 5489; 5923; 5941; 5952 |
| BsuTUI | AT!CGAT | 1 | 3885 |
| BtgI | C!CRYGG | 6 | 360; 659; 2247; 2280; 3774; 4477 |
| BtgZI | GCGATGNNNNNNNNN! | 2 | 3162; 4497 |
| BtgZI | !NNNNNNNNNNNNNCATCGC | 3 | 334; 4316; 4660 |
| BthCI | GCNG!C | 39 | 752; 803; 947; 1064; 1245; 1596; 1621; 2270; 2314; 2342; 2602; 2824; 3343; 3365; 3379; 3817; 3956; 4008; 4019; 4109; 4114; 4151; 4192; 4279; 4282; 4285; 4521; 4617; 4658; 4672; 4786; 5125; 5140; 5351; 5557; 5560; 5625; 5768; 5923 |
| BtrI | CAC!GTC | 0 | |
| BtrI | GAC!GTG | 1 | 2289 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|------------------------------|-------|---|
| BtsI | GCAGTGNN! | 1 | 1262 |
| BtsI | !CACTGC | 2 | 2036; 2884 |
| BtsCI | GGATGNN! | 5 | 2564; 3905; 4362; 4387; 4841 |
| BtsCI | !CATCC | 10 | 685; 773; 830; 985; 1340; 1409; 1883; 2114; 2342; 3731 |
| BtuMI | TCG!CGA | 0 | |
| BveI | ACCTGCNNNN! | 2 | 4313; 4763 |
| BveI | !NNNNNNNNGCAGGT | 1 | 3932 |
| Cac8I | GCN!NGC | 42 | 86; 279; 593; 613; 703; 907; 1380; 1501; 1576; 1693; 1697; 2205; 2216; 2265; 2452; 2490; 2528; 3264; 3307; 3321; 3594; 3613; 3666; 3685; 3939; 4125; 4344; 4410; 4416; 4444; 4448; 4489; 4493; 4547; 4830; 5017; 5064; 5120; 5142; 5353; 5913; 5950 |
| CaiI | CAGNNN!CTG | 3 | 1268; 5146; 5554 |
| CciI | T!CATGA | 2 | 3471; 5243 |
| CciNI | GC!GGCCGC | 0 | |
| CdiI | CATC!G | 5 | 352; 4334; 4339; 4537; 4678 |
| CdiI | C!GATG | 3 | 1419; 3148; 4483 |
| CdpI | GCGGAGNNNNNNNNNNNNNNNNNNNN! | 1 | 5917 |
| CdpI | !NNNNNNNNNNNNNNNNNNNNCTCCGC | 3 | 486; 3706; 3748 |
| CelII | GC!TNAGC | 1 | 2455 |
| CfoI | GCG!C | 23 | 1495; 1985; 2339; 3311; 3319; 3345; 3367; 3376; 3389; 3420; 4039; 4047; 4111; 4148; 4414; 4674; 4850; 4936; 5339; 5448; 5622; 5722; 5789 |
| CfrI | Y!GGCCR | 9 | 1259; 1350; 1422; 2129; 2426; 3951; 4125; 4516; 4543 |
| Cfr9I | C!CCGGG | 1 | 1511 |
| Cfr10I | R!CCGGY | 5 | 1711; 3262; 4364; 4545; 4828 |
| Cfr13I | G!GNCC | 14 | 83; 276; 751; 994; 1086; 1680; 2496; 2583; 3152; 4561; 5006; 5052; 5110; 5143 |
| Cfr42I | CCGC!GG | 0 | |
| ChaI | GATC! | 26 | 589; 969; 1119; 1145; 1319; 1665; 2196; 2684; 2693; 2706; 3886; 3890; 3909; 4220; 4298; 4379; 4388; 4466; 4842; 4858; 5217; 5229; 5307; 5315; 5326; 5401 |
| CjeI | CCANNNNNNGTNNNNNNNNNNNNNN! | 5 | 2044; 3862; 5302; 5402; 5480 |
| CjeI | !NNNNNNNNNACNNNNNNNTGG | 9 | 64; 257; 1479; 1746; 3529; 3624; 4816; 5366; 5921 |
| CjeI | ACNNNNNNNTGGNNNNNNNNNNNNNN! | 9 | 98; 291; 1513; 1780; 3563; 3658; 4850; 5400; 5955 |
| CjeI | !NNNNNNNNCCANNNNNNGT | 5 | 2010; 3828; 5268; 5368; 5446 |
| CjePI | CCANNNNNNNNTCNNNNNNNNNNNNNN! | 3 | 2044; 5302; 5480 |
| CjePI | !NNNNNNNNGANNNNNNNTGG | 7 | 257; 722; 1067; 1479; 2040; 4816; 5415 |
| CjePI | GANNNNNNNTGGNNNNNNNNNNNNNN! | 7 | 290; 755; 1100; 1512; 2073; 4849; 5448 |
| CjePI | !NNNNNNNNCCANNNNNNNNTC | 3 | 2011; 5269; 5447 |
| Clal | AT!CGAT | 1 | 3885 |
| CpoI | CG!GWCCG | 1 | 4561 |
| CseI | GACGCNNNNN! | 4 | 526; 1050; 4755; 4834 |
| CseI | !NNNNNNNNNNGCGTC | 4 | 1167; 3378; 5273; 5851 |
| CsiI | A!CCWGGT | 2 | 2096; 3634 |
| CspI | CG!GWCCG | 1 | 4561 |
| Csp6I | G!TAC | 12 | 218; 243; 298; 331; 382; 539; 645; 1047; 2277; 2434; 2544; 4350 |
| Csp45I | TT!CGAA | 1 | 4727 |
| CspAI | A!CCGGT | 1 | 1711 |
| CspCI | CAANNNNNNGTGGNNNNNNNNNNNN! | 1 | 411 |
| CspCI | !NNNNNNNNNNCCACNNNNNTTG | 2 | 1527; 2454 |
| CspCI | CCACNNNNNTTGGNNNNNNNNNNNN! | 2 | 1562; 2489 |
| CspCI | !NNNNNNNNNNNCAANNNNNGTGG | 1 | 376 |
| CstMI | AAGGAGNNNNNNNNNNNNNNNNNNNN! | 6 | 647; 1238; 1682; 2670; 3325; 4934 |
| CstMI | !NNNNNNNNNNNNNNNNNNNNCTCCTT | 1 | 1445 |
| CviAII | C!ATG | 28 | 301; 361; 606; 630; 636; 648; 726; 872; 1083; 1782; 1929; 2170; 2248; 2259; 2451; 3472; 3612; 3684; 3775; 3916; 4261; 4447; 4478; 4504; 4860; 5244; 5964; 6015 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|------------------------------|-------|--|
| CviJI | RG!CY | 123 | 42; 84; 93; 277; 566; 615; 642; 705; 752; 781; 788; 866; 932; 944; 995; 1022; 1030; 1064; 1087; 1095; 1109; 1219; 1261; 1299; 1352; 1357; 1389; 1416; 1424; 1516; 1578; 1596; 1695; 1699; 1724; 1742; 1821; 1861; 1872; 1945; 2018; 2062; 2131; 2164; 2178; 2214; 2218; 2263; 2372; 2397; 2428; 2443; 2470; 2482; 2488; 2584; 2599; 2714; 2824; 2991; 3011; 3153; 3234; 3248; 3262; 3543; 3584; 3656; 3779; 3808; 3814; 3823; 3831; 3854; 3866; 3872; 3953; 3970; 3978; 4005; 4030; 4114; 4123; 4127; 4151; 4189; 4265; 4282; 4301; 4364; 4408; 4418; 4435; 4518; 4545; 4549; 4586; 4609; 4625; 4805; 4832; 4893; 5015; 5054; 5111; 5118; 5125; 5144; 5155; 5406; 5435; 5478; 5489; 5554; 5633; 5658; 5663; 5709; 5799; 5897; 5923; 5941; 5952 |
| CviKI-1 | RG!CY | 123 | 42; 84; 93; 277; 566; 615; 642; 705; 752; 781; 788; 866; 932; 944; 995; 1022; 1030; 1064; 1087; 1095; 1109; 1219; 1261; 1299; 1352; 1357; 1389; 1416; 1424; 1516; 1578; 1596; 1695; 1699; 1724; 1742; 1821; 1861; 1872; 1945; 2018; 2062; 2131; 2164; 2178; 2214; 2218; 2263; 2372; 2397; 2428; 2443; 2470; 2482; 2488; 2584; 2599; 2714; 2824; 2991; 3011; 3153; 3234; 3248; 3262; 3543; 3584; 3656; 3779; 3808; 3814; 3823; 3831; 3854; 3866; 3872; 3953; 3970; 3978; 4005; 4030; 4114; 4123; 4127; 4151; 4189; 4265; 4282; 4301; 4364; 4408; 4418; 4435; 4518; 4545; 4549; 4586; 4609; 4625; 4805; 4832; 4893; 5015; 5054; 5111; 5118; 5125; 5144; 5155; 5406; 5435; 5478; 5489; 5554; 5633; 5658; 5663; 5709; 5799; 5897; 5923; 5941; 5952 |
| CviQI | G!TAC | 12 | 218; 243; 298; 331; 382; 539; 645; 1047; 2277; 2434; 2544; 4350 |
| DdeI | C!TNAG | 16 | 860; 1157; 1312; 1589; 1794; 2047; 2156; 2455; 2477; 2676; 3525; 3827; 4708; 5157; 5280; 5689 |
| DinI | GGC!GCC | 1 | 4046 |
| DpnI | GA!TC | 26 | 587; 967; 1117; 1143; 1317; 1663; 2194; 2682; 2691; 2704; 3884; 3888; 3907; 4218; 4296; 4377; 4386; 4464; 4840; 4856; 5215; 5227; 5305; 5313; 5324; 5399 |
| DpnII | !GATC | 26 | 585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397 |
| DraI | TTT!AAA | 3 | 2747; 5189; 5208 |
| DraII | RG!GNCCY | 1 | 5143 |
| DraIII | CACNNN!GTG | 2 | 1251; 3161 |
| DraRI | CAAGNACNNNNNNNNNNNNNNNNNNNN! | 3 | 266; 1526; 5525 |
| DraRI | !NNNNNNNNNNNNNNNNNNNGTNCTTG | 0 | |
| DrdI | GACNNN!NNGTC | 3 | 3116; 4072; 5861 |
| DrdIV | TACGACNNNNNNNNNNNNNNNNNNNN! | 0 | |
| DrdIV | !NNNNNNNNNNNNNNNNNNNGTCGTA | 2 | 476; 1942 |
| DriI | GACNNN!NNGTC | 0 | |
| DseDI | GACNNN!NNGTC | 3 | 3116; 4072; 5861 |
| EaeI | Y!GGCCR | 9 | 1259; 1350; 1422; 2129; 2426; 3951; 4125; 4516; 4543 |
| EagI | C!GGCCG | 1 | 3951 |
| Eam1104I | CTCTCN! | 1 | 1585 |
| Eam1104I | !NNNNGAAGAG | 3 | 3512; 4389; 4599 |
| Eam1105I | GACNNN!NNGTC | 0 | |
| EarI | CTCTCN! | 1 | 1585 |
| EarI | !NNNNGAAGAG | 3 | 3512; 4389; 4599 |
| EciI | GGCGANNNNNNNNNNNN! | 4 | 3545; 4574; 5761; 5907 |
| EciI | !NNNNNNNNNTCCGCC | 4 | 496; 3716; 3737; 3758 |
| Ecl136II | GAG!CTC | 1 | 1389 |
| EclXI | C!GGCCG | 1 | 3951 |
| Eco24I | GRGCY!C | 7 | 1391; 1874; 2064; 2490; 3236; 4410; 5120 |
| Eco31I | GGTCTCN! | 0 | |
| Eco31I | !NNNNGAGACC | 3 | 1222; 2414; 5034 |
| Eco32I | GAT!ATC | 1 | 1977 |
| Eco47I | G!GWCC | 4 | 1680; 2496; 4561; 5006 |
| Eco47III | AGC!GCT | 0 | |
| Eco52I | C!GGCCG | 1 | 3951 |
| Eco57I | CTGAAGNNNNNNNNNNNNNNNN! | 3 | 1111; 4191; 4623 |
| Eco57I | !NNNNNNNNNNNNNNNNCTCAG | 3 | 1464; 1702; 5421 |
| Eco72I | CAC!GTG | 1 | 1506 |
| Eco81I | CC!TNAGG | 3 | 860; 3525; 5157 |
| Eco88I | C!YCGRG | 3 | 1319; 1511; 1634 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|-------------------------|-------|---|
| Eco91I | G!GTNACC | 0 | |
| Eco105I | TAC!GTA | 1 | 340 |
| Eco130I | C!CWWGG | 7 | 360; 2247; 2429; 3774; 3867; 4477; 4882 |
| Eco147I | AGG!CCT | 3 | 1030; 2482; 3866 |
| EcoHI | !CCSGG | 6 | 1510; 1511; 4047; 4207; 4820; 5584 |
| EcoICRI | GAG!CTC | 1 | 1389 |
| Eco57MI | CTGRAGNNNNNNNNNNNNNNNN! | 6 | 1111; 1843; 1927; 4191; 4623; 4885 |
| Eco57MI | !NNNNNNNNNNNNNNCTYCAG | 5 | 919; 1464; 1702; 4828; 5421 |
| EcoNI | CCTNN!NNNAGG | 2 | 2428; 2608 |
| EcoO65I | G!GTNACC | 0 | |
| EcoO109I | RG!GNCCY | 1 | 5143 |
| EcoRI | G!AATTC | 2 | 1685; 2083 |
| EcoRII | !CCWGG | 26 | 88; 281; 776; 824; 920; 935; 1064; 1173; 1352; 1397; 1847; 1904; 2096; 2412; 2423; 2482; 2492; 3579; 3634; 3651; 4430; 5009; 5112; 5802; 5815; 5936 |
| EcoRV | GAT!ATC | 1 | 1977 |
| EcoT14I | C!CWWGG | 7 | 360; 2247; 2429; 3774; 3867; 4477; 4882 |
| EcoT22I | ATGCA!T | 3 | 3617; 3689; 6020 |
| EcoT38I | GRGCY!C | 7 | 1391; 1874; 2064; 2490; 3236; 4410; 5120 |
| Eco53kI | GAG!CTC | 1 | 1389 |
| EgeI | GGC!GCC | 1 | 4046 |
| EheI | GGC!GCC | 1 | 4046 |
| ErhI | C!CWWGG | 7 | 360; 2247; 2429; 3774; 3867; 4477; 4882 |
| EsaBC3I | TC!GA | 17 | 744; 771; 1239; 1321; 1974; 1980; 3195; 3886; 4159; 4315; 4339; 4375; 4537; 4728; 4773; 5028; 5866 |
| Esp3I | CGTCTCN! | 1 | 1795 |
| Esp3I | !NNNNNGAGACG | 2 | 1033; 1480 |
| FaeI | CATG! | 28 | 304; 364; 609; 633; 639; 651; 729; 875; 1086; 1785; 1932; 2173; 2251; 2262; 2454; 3475; 3615; 3687; 3778; 3919; 4264; 4450; 4481; 4507; 4863; 5247; 5967; 6018 |
| Fail | YA!TR | 76 | 39; 46; 50; 67; 138; 146; 234; 236; 291; 302; 310; 362; 555; 557; 607; 631; 637; 649; 727; 873; 891; 1084; 1137; 1139; 1187; 1631; 1783; 1805; 1930; 1952; 2136; 2138; 2171; 2249; 2260; 2452; 2519; 2596; 2618; 2707; 2717; 2783; 2828; 3033; 3461; 3473; 3604; 3613; 3676; 3685; 3709; 3776; 3800; 3917; 3981; 4262; 4287; 4448; 4479; 4505; 4577; 4793; 4861; 4939; 4991; 5152; 5169; 5171; 5173; 5245; 5523; 5712; 5828; 5901; 5965; 6016 |
| FalI | AAGNNNNCTTNNNNNNNNNNNN! | 3 | 870; 2547; 4385 |
| FalI | !NNNNNNNNAAGNNNNCTT | 3 | 838; 2515; 4353 |
| FaqI | GGGACNNNNNNNNNN! | 6 | 175; 326; 494; 4196; 4728; 4837 |
| FaqI | !NNNNNNNNNNNNNGTCCC | 4 | 3561; 3633; 3697; 4992 |
| FatI | !CATG | 28 | 300; 360; 605; 629; 635; 647; 725; 871; 1082; 1781; 1928; 2169; 2247; 2258; 2450; 3471; 3611; 3683; 3774; 3915; 4260; 4446; 4477; 4503; 4859; 5243; 5963; 6014 |
| FauI | CCCGCNNNN! | 11 | 93; 119; 286; 1059; 1161; 2119; 3367; 3722; 3743; 4939; 5071 |
| FauI | !NNNNNGCGGG | 6 | 1096; 3298; 4168; 4705; 4843; 4990 |
| FauNDI | CA!TATG | 2 | 234; 2136 |
| FbaI | T!GATCA | 1 | 2702 |
| FblI | GT!MKAC | 3 | 1181; 1526; 1934 |
| FmuI | GGNC!C | 14 | 86; 279; 754; 997; 1089; 1683; 2499; 2586; 3155; 4564; 5009; 5055; 5113; 5146 |
| Fnu4HI | GC!NGC | 39 | 750; 801; 945; 1062; 1243; 1594; 1619; 2268; 2312; 2340; 2600; 2822; 3341; 3363; 3377; 3815; 3954; 4006; 4017; 4107; 4112; 4149; 4190; 4277; 4280; 4283; 4519; 4615; 4656; 4670; 4784; 5123; 5138; 5349; 5555; 5558; 5623; 5766; 5921 |
| FokI | GGATGNNNNNNNNNN! | 5 | 2571; 3912; 4369; 4394; 4848 |
| FokI | !NNNNNNNNNNNNNCATCC | 10 | 672; 760; 817; 972; 1327; 1396; 1870; 2101; 2329; 3718 |
| FriOI | GRGCY!C | 7 | 1391; 1874; 2064; 2490; 3236; 4410; 5120 |
| FseI | GGCCGG!CC | 0 | |
| FspI | TGC!GCA | 1 | 4147 |
| FspAI | RTGC!GCAY | 0 | |
| FspBI | C!TAG | 10 | 592; 785; 1280; 2693; 2894; 3312; 3868; 4883; 5217; 5470 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|----------------------------|-------|--|
| FspEI | CCNNNNNNNNNNNN! | 208 | 56; 71; 98; 114; 128; 129; 156; 182; 220; 252; 291; 307; 333; 373; 450; 451; 482; 501; 520; 593; 615; 672; 702; 719; 733; 766; 780; 805; 822; 837; 867; 900; 927; 942; 961; 1002; 1044; 1063; 1078; 1101; 1123; 1146; 1166; 1187; 1233; 1275; 1291; 1320; 1353; 1378; 1392; 1411; 1426; 1445; 1479; 1523; 1550; 1581; 1597; 1635; 1662; 1684; 1717; 1750; 1785; 1830; 1845; 1859; 1886; 1900; 1914; 1938; 1959; 1984; 1999; 2014; 2032; 2046; 2076; 2101; 2117; 2131; 2145; 2178; 2211; 2228; 2254; 2284; 2309; 2328; 2346; 2377; 2407; 2426; 2442; 2478; 2496; 2512; 2535; 2598; 2616; 2697; 2728; 2767; 2781; 2922; 3017; 3041; 3064; 3087; 3105; 3127; 3148; 3167; 3186; 3215; 3236; 3250; 3276; 3364; 3390; 3439; 3480; 3498; 3537; 3553; 3591; 3648; 3663; 3720; 3740; 3754; 3771; 3785; 3822; 3837; 3880; 3963; 4030; 4061; 4081; 4096; 4141; 4155; 4221; 4235; 4254; 4270; 4311; 4331; 4378; 4428; 4444; 4464; 4489; 4509; 4532; 4559; 4577; 4603; 4643; 4669; 4693; 4749; 4763; 4791; 4834; 4855; 4890; 4934; 5022; 5046; 5068; 5088; 5104; 5125; 5139; 5158; 5242; 5262; 5290; 5305; 5339; 5381; 5408; 5423; 5468; 5492; 5506; 5528; 5554; 5574; 5598; 5624; 5672; 5691; 5710; 5736; 5771; 5816; 5846; 5860; 5911; 5925; 5950; 5966; 5987; 6016 |
| FspEI | !NNNNNNNNNNNNNGG | 167 | 8; 35; 59; 144; 166; 197; 252; 295; 347; 375; 400; 435; 463; 509; 529; 552; 580; 607; 634; 676; 697; 721; 763; 782; 811; 847; 884; 907; 926; 956; 977; 1004; 1043; 1069; 1088; 1160; 1186; 1234; 1273; 1292; 1334; 1355; 1384; 1406; 1433; 1474; 1497; 1516; 1547; 1589; 1622; 1642; 1663; 1681; 1705; 1730; 1748; 1768; 1790; 1834; 1891; 1915; 2042; 2083; 2113; 2212; 2234; 2267; 2338; 2362; 2392; 2410; 2464; 2526; 2545; 2566; 2596; 2617; 2635; 2653; 2672; 2716; 2816; 2885; 2993; 3042; 3064; 3092; 3128; 3173; 3202; 3238; 3257; 3285; 3305; 3368; 3391; 3499; 3531; 3549; 3578; 3621; 3650; 3761; 3790; 3833; 3854; 3882; 3915; 3935; 3960; 3987; 4012; 4034; 4062; 4088; 4109; 4160; 4181; 4199; 4247; 4283; 4339; 4364; 4388; 4417; 4440; 4464; 4490; 4512; 4531; 4556; 4596; 4632; 4697; 4782; 4806; 4835; 4869; 4890; 4910; 4955; 4982; 5001; 5034; 5086; 5117; 5144; 5196; 5294; 5365; 5410; 5471; 5536; 5570; 5596; 5614; 5650; 5720; 5743; 5765; 5789; 5822; 5870; 5905; 5923; 5980 |
| Fsp4HI | GC!NGC | 39 | 750; 801; 945; 1062; 1243; 1594; 1619; 2268; 2312; 2340; 2600; 2822; 3341; 3363; 3377; 3815; 3954; 4006; 4017; 4107; 4112; 4149; 4190; 4277; 4280; 4283; 4519; 4615; 4656; 4670; 4784; 5123; 5138; 5349; 5555; 5558; 5623; 5766; 5921 |
| GdiII | C!GGCCR | 1 | 3951 |
| GdiII | Y!GGCCG | 3 | 3951; 4516; 4543 |
| GlaI | GC!GC | 23 | 1494; 1984; 2338; 3310; 3318; 3344; 3366; 3375; 3388; 3419; 4038; 4046; 4110; 4147; 4413; 4673; 4849; 4935; 5338; 5447; 5621; 5721; 5788 |
| GluI | GC!NGC | 39 | 750; 801; 945; 1062; 1243; 1594; 1619; 2268; 2312; 2340; 2600; 2822; 3341; 3363; 3377; 3815; 3954; 4006; 4017; 4107; 4112; 4149; 4190; 4277; 4280; 4283; 4519; 4615; 4656; 4670; 4784; 5123; 5138; 5349; 5555; 5558; 5623; 5766; 5921 |
| GsaI | CCCAG!C | 4 | 1843; 3592; 3664; 5663 |
| GsaI | GCTGG!G | 3 | 1026; 1386; 4553 |
| GsuI | CTGGAGNNNNNNNNNNNNNNNN! | 3 | 1843; 1927; 4885 |
| GsuI | !NNNNNNNNNNNNNCTCCAG | 2 | 919; 4828 |
| HaeI | WGG!CCW | 14 | 1030; 1219; 1261; 1352; 1424; 1945; 2131; 2428; 2482; 3866; 4127; 5489; 5941; 5952 |
| HaeII | RGCGC!Y | 6 | 1496; 1986; 3312; 3320; 4048; 5723 |
| HaeIII | GG!CC | 33 | 84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1352; 1424; 1945; 2131; 2428; 2482; 2584; 3011; 3153; 3808; 3814; 3823; 3866; 3953; 4127; 4518; 4545; 5054; 5111; 5144; 5489; 5923; 5941; 5952 |
| HaeIV | GAYNNNNNRTCNNNNNNNNNNNNNN! | 2 | 2720; 4241 |
| HaeIV | !NNNNNNNNNGAYNNNNNRTC | 2 | 2686; 4207 |
| HaeIV | GAYNNNNNRTCNNNNNNNNNNNNNN! | 2 | 2719; 4240 |
| HaeIV | !NNNNNNNNNGAYNNNNNRTC | 2 | 2688; 4209 |
| HapII | C!CGG | 20 | 1307; 1512; 1712; 2687; 3263; 3950; 4027; 4049; 4077; 4208; 4298; 4365; 4546; 4821; 4829; 4921; 5395; 5585; 5611; 5758 |
| HgaI | GACGCNNNNN! | 4 | 526; 1050; 4755; 4834 |
| HgaI | !NNNNNNNNNNGCGTC | 4 | 1167; 3378; 5273; 5851 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|--------------------------|-------|--|
| HhaI | GCG!C | 23 | 1495; 1985; 2339; 3311; 3319; 3345; 3367; 3376; 3389; 3420; 4039; 4047; 4111; 4148; 4414; 4674; 4850; 4936; 5339; 5448; 5622; 5722; 5789 |
| Hin1I | GR!CGYC | 8 | 122; 175; 258; 444; 1178; 4045; 4747; 4826 |
| Hin1II | CATG! | 28 | 304; 364; 609; 633; 639; 651; 729; 875; 1086; 1785; 1932; 2173; 2251; 2262; 2454; 3475; 3615; 3687; 3778; 3919; 4264; 4450; 4481; 4507; 4863; 5247; 5967; 6018 |
| Hin4I | GAYNNNNVTCNNNNNNNNNNNN! | 2 | 2719; 4240 |
| Hin4I | !NNNNNNNGABNNNNNRTC | 3 | 2687; 4208; 4238 |
| Hin4I | GABNNNNNRTCNNNNNNNNNNNN! | 3 | 2719; 4240; 4270 |
| Hin4I | !NNNNNNNGAYNNNNNVTC | 2 | 2687; 4208 |
| Hin6I | G!CGC | 23 | 1493; 1983; 2337; 3309; 3317; 3343; 3365; 3374; 3387; 3418; 4037; 4045; 4109; 4146; 4412; 4672; 4848; 4934; 5337; 5446; 5620; 5720; 5787 |
| HinP1I | G!CGC | 23 | 1493; 1983; 2337; 3309; 3317; 3343; 3365; 3374; 3387; 3418; 4037; 4045; 4109; 4146; 4412; 4672; 4848; 4934; 5337; 5446; 5620; 5720; 5787 |
| HincII | GTY!RAC | 2 | 2073; 2808 |
| HindII | GTY!RAC | 2 | 2073; 2808 |
| HindIII | A!AGCTT | 1 | 1297 |
| HinfI | G!ANTC | 17 | 410; 731; 881; 1208; 1310; 1462; 2635; 3088; 3110; 3520; 4530; 4664; 4716; 4774; 4811; 5593; 5989 |
| HpaI | GTT!AAC | 1 | 2808 |
| HpaII | C!CGG | 20 | 1307; 1512; 1712; 2687; 3263; 3950; 4027; 4049; 4077; 4208; 4298; 4365; 4546; 4821; 4829; 4921; 5395; 5585; 5611; 5758 |
| HphI | GGTGANNNNNNNN! | 8 | 376; 987; 2241; 2296; 2563; 2665; 5116; 5232 |
| HphI | !NNNNNNNTCACC | 7 | 876; 1026; 1761; 1881; 2187; 3162; 4223 |
| Hpy8I | GTN!NAC | 19 | 201; 539; 577; 663; 683; 978; 1182; 1191; 1527; 1709; 1769; 1935; 2073; 2538; 2808; 3092; 3109; 3164; 5651 |
| Hpy99I | CGWCG! | 8 | 1240; 4135; 4163; 4457; 4472; 4749; 5134; 5867 |
| Hpy166II | GTN!NAC | 19 | 201; 539; 577; 663; 683; 978; 1182; 1191; 1527; 1709; 1769; 1935; 2073; 2538; 2808; 3092; 3109; 3164; 5651 |
| Hpy188I | TCN!GA | 17 | 585; 690; 970; 1115; 1315; 1917; 2580; 3219; 3828; 4012; 4356; 4709; 4810; 5289; 5423; 5776; 5854 |
| Hpy188III | TC!NNGA | 27 | 963; 1128; 1167; 1307; 1319; 1365; 2088; 2693; 3472; 3524; 3837; 3890; 4063; 4379; 4388; 4471; 4527; 4571; 4661; 4694; 4763; 5244; 5318; 5401; 5499; 5597; 5731 |
| HpyAV | CCTTCNNNNNN! | 9 | 771; 819; 864; 1041; 1476; 1935; 4690; 4797; 5476 |
| HpyAV | !NNNNNGAAGG | 13 | 691; 1063; 2560; 2604; 2638; 2656; 3278; 4173; 4902; 4918; 5101; 5418; 5728 |
| HpyCH4III | ACN!GT | 17 | 76; 198; 269; 543; 581; 660; 1542; 2281; 2406; 3136; 4425; 4541; 4649; 4972; 5463; 5933; 6004 |
| HpyCH4IV | A!CGT | 21 | 122; 134; 175; 258; 339; 444; 959; 1235; 1346; 1505; 1788; 2288; 2546; 3105; 3117; 3160; 3270; 4161; 4348; 5129; 5262 |
| HpyCH4V | TG!CA | 22 | 633; 683; 1005; 1334; 1709; 2450; 2794; 2821; 2889; 3606; 3615; 3678; 3687; 3802; 3878; 3937; 4096; 4271; 4285; 5355; 5651; 6018 |
| HpyF3I | C!TNAG | 16 | 860; 1157; 1312; 1589; 1794; 2047; 2156; 2455; 2477; 2676; 3525; 3827; 4708; 5157; 5280; 5689 |
| HpyF10VI | GCNNNNN!NNGC | 36 | 90; 212; 244; 283; 376; 400; 639; 1070; 1379; 1571; 2015; 2137; 2161; 2317; 2369; 2456; 2527; 3272; 3302; 3329; 3371; 3612; 3684; 3735; 3814; 4036; 4120; 4143; 4282; 4405; 4488; 4755; 4942; 5146; 5345; 5917 |
| Hsp92I | GR!CGYC | 8 | 122; 175; 258; 444; 1178; 4045; 4747; 4826 |
| Hsp92II | CATG! | 28 | 304; 364; 609; 633; 639; 651; 729; 875; 1086; 1785; 1932; 2173; 2251; 2262; 2454; 3475; 3615; 3687; 3778; 3919; 4264; 4450; 4481; 4507; 4863; 5247; 5967; 6018 |
| HspAI | G!CGC | 23 | 1493; 1983; 2337; 3309; 3317; 3343; 3365; 3374; 3387; 3418; 4037; 4045; 4109; 4146; 4412; 4672; 4848; 4934; 5337; 5446; 5620; 5720; 5787 |
| KasI | G!GCGCC | 1 | 4044 |
| KfiI | GG!GWCCC | 0 | |
| KpnI | GGTAC!C | 0 | |
| Kpn2I | T!CCGGA | 1 | 1306 |
| KspI | CCGC!GG | 0 | |
| Ksp22I | T!GATCA | 1 | 2702 |
| KspAI | GTT!AAC | 1 | 2808 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|--|-------|--|
| Kzo9I | !GATC | 26 | 585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397 |
| LguI | GCTCTTCN! | 1 | 1585 |
| LguI | !NNNNGAAGAGC | 2 | 4389; 4599 |
| LpnI | RGC!GCGY | 6 | 1494; 1984; 3310; 3318; 4046; 5721 |
| LpnPI | CCDGNNNNNNNNNN! | 81 | 102; 295; 733; 790; 838; 872; 934; 949; 1010; 1078; 1102; 1187; 1275; 1320; 1366; 1392; 1411; 1426; 1525; 1588; 1717; 1789; 1853; 1918; 2032; 2059; 2077; 2101; 2156; 2228; 2284; 2359; 2407; 2426; 2496; 2524; 2700; 2782; 3087; 3276; 3499; 3537; 3553; 3593; 3648; 3665; 3765; 3850; 3963; 4040; 4062; 4085; 4221; 4235; 4254; 4311; 4378; 4428; 4444; 4501; 4559; 4768; 4834; 4858; 4934; 5023; 5126; 5159; 5390; 5408; 5554; 5574; 5598; 5624; 5673; 5771; 5816; 5846; 5925; 5950; 5987 |
| LpnPI | !NNNNNNNNNNNNNNCHGG | 71 | 75; 268; 552; 763; 811; 907; 1008; 1051; 1160; 1186; 1273; 1292; 1339; 1368; 1481; 1547; 1589; 1681; 1705; 1742; 1807; 1834; 1891; 2083; 2113; 2354; 2399; 2469; 2526; 2672; 3128; 3248; 3305; 3368; 3566; 3578; 3638; 3650; 3882; 3927; 3970; 4012; 4034; 4062; 4109; 4171; 4193; 4283; 4350; 4373; 4417; 4512; 4531; 4556; 4705; 4806; 4849; 4906; 4996; 5099; 5126; 5144; 5380; 5417; 5570; 5596; 5736; 5754; 5789; 5870; 5923 |
| Lsp1109I | GCAGCNNNNNNNN! | 10 | 812; 1254; 1605; 2351; 2833; 4118; 4160; 4681; 5134; 5634 |
| Lsp1109I | !NNNNNNNNNNNNNGCTGC | 11 | 931; 1605; 2254; 2298; 2586; 3327; 3992; 4176; 4269; 5335; 5541 |
| LweI | GCATCNNNNN! | 12 | 839; 1343; 1418; 2123; 2351; 2393; 2861; 3624; 3696; 4344; 4408; 4683 |
| LweI | !NNNNNNNNNGATGC | 9 | 357; 992; 1160; 1418; 1605; 4003; 4258; 4474; 5866 |
| MabI | A!CCWGGT | 2 | 2096; 3634 |
| MaeI | C!TAG | 10 | 592; 785; 1280; 2693; 2894; 3312; 3868; 4883; 5217; 5470 |
| MaeII | A!CGT | 21 | 122; 134; 175; 258; 339; 444; 959; 1235; 1346; 1505; 1788; 2288; 2546; 3105; 3117; 3160; 3270; 4161; 4348; 5129; 5262 |
| MaeIII | !GTNAC | 16 | 61; 148; 497; 882; 1435; 2236; 2284; 2833; 3334; 3346; 4165; 4471; 5161; 5427; 5543; 5606 |
| MalI | GA!TC | 26 | 587; 967; 1117; 1143; 1317; 1663; 2194; 2682; 2691; 2704; 3884; 3888; 3907; 4218; 4296; 4377; 4386; 4464; 4840; 4856; 5215; 5227; 5305; 5313; 5324; 5399 |
| MaqI | CRTTGACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN! | 5 | 144; 197; 466; 540; 1692 |
| MaqI | !NNNNNNNNNNNNNNNNNNNNNGTCAAYG | 4 | 157; 240; 426; 2285 |
| MauBI | CG!CGCGCG | 0 | |
| MbiI | CCG!CTC | 2 | 3469; 4658 |
| MbiI | GAG!CGG | 2 | 3305; 4712 |
| MboI | !GATC | 26 | 585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397 |
| MboII | GAAGANNNNNNNN! | 10 | 907; 1020; 1624; 2602; 2671; 3301; 3529; 4406; 4616; 5235 |
| MboII | !NNNNNNNTCTTC | 8 | 834; 1470; 1572; 1708; 4696; 4863; 5063; 5306 |
| McaTI | GCGC!GC | 0 | |
| MfeI | C!AATTG | 1 | 2795 |
| MflI | R!GATCY | 12 | 585; 1141; 1315; 2680; 2689; 4216; 4462; 4854; 5213; 5225; 5311; 5322 |
| MhII | GDGCH!C | 22 | 658; 685; 718; 1295; 1391; 1511; 1643; 1711; 1874; 1913; 2064; 2105; 2365; 2490; 3236; 3991; 4084; 4158; 4348; 4410; 5120; 5653 |
| MIsI | TGG!CCA | 6 | 1261; 1352; 1424; 2131; 2428; 4127 |
| MluI | A!CGCGT | 1 | 2931 |
| MluNI | TGG!CCA | 6 | 1261; 1352; 1424; 2131; 2428; 4127 |
| MlyI | GAGTCNNNNN! | 3 | 890; 3097; 3529 |
| MlyI | !NNNNNGACTC | 6 | 404; 1304; 1456; 3104; 4710; 5587 |
| Mly113I | GG!CGCC | 1 | 4045 |
| MmeI | TCCRACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN! | 2 | 1013; 3138 |
| MmeI | !NNNNNNNNNNNNNNNNNNNGTYGGA | 3 | 1658; 5570; 5754 |
| MnII | CCTCNNNNNNN! | 20 | 764; 802; 943; 958; 1174; 1285; 1782; 1897; 1981; 2040; 2135; 2252; 2408; 2764; 3828; 4646; 4852; 5166; 5536; 5860 |
| MnII | !NNNNNGAGG | 31 | 541; 645; 684; 705; 738; 855; 964; 1020; 1209; 1242; 1447; 1630; 1935; 2472; 2547; 2574; 2613; 2643; 2661; 2724; 3189; 3520; 3798; 3841; 3856; 3896; 3960; 4096; 4453; 4883; 5786 |
| Mph1103I | ATGCA!T | 3 | 3617; 3689; 6020 |
| MreI | CG!CCGGCG | 0 | |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|------------------|-------|---|
| MroI | T↓CCGGA | 1 | 1306 |
| MroNI | G↓CCGGC | 3 | 3262; 4545; 4828 |
| MroXI | GAANN!NNTTC | 1 | 1758 |
| MscI | TGG↓CCA | 6 | 1261; 1352; 1424; 2131; 2428; 4127 |
| MseI | T↓TAA | 18 | 7; 620; 1301; 2003; 2746; 2807; 2928; 2949; 2960; 2972; 2983; 3000; 3098; 3369; 5188; 5202; 5207; 5259 |
| MslI | CAYNN!NNRTG | 4 | 365; 634; 2407; 4482 |
| MspI | C↓CGG | 20 | 1307; 1512; 1712; 2687; 3263; 3950; 4027; 4049; 4077; 4208; 4298; 4365; 4546; 4821; 4829; 4921; 5395; 5585; 5611; 5758 |
| Msp20I | TGG↓CCA | 6 | 1261; 1352; 1424; 2131; 2428; 4127 |
| MspA1I | CMG↓CKG | 6 | 1054; 1861; 3543; 4151; 5380; 5625 |
| MspCI | C↓TTAAG | 0 | |
| MspJI | CNNRNNNNNNNNNN! | 306 | 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; 618; 642; 660; 690; 708; 723; 738; 756; 789; 816; 832; 847; 871; 884; 900; 918; 932; 948; 961; 975; 996; 1009; 1030; 1049; 1063; 1077; 1095; 1108; 1126; 1140; 1157; 1177; 1209; 1224; 1239; 1258; 1274; 1291; 1306; 1319; 1333; 1357; 1370; 1391; 1410; 1425; 1438; 1452; 1502; 1516; 1542; 1570; 1587; 1600; 1614; 1634; 1647; 1668; 1684; 1702; 1716; 1732; 1750; 1769; 1788; 1806; 1821; 1834; 1851; 1869; 1886; 1900; 1917; 1941; 1975; 1992; 2009; 2023; 2058; 2076; 2089; 2105; 2123; 2140; 2155; 2168; 2182; 2201; 2216; 2231; 2255; 2271; 2293; 2308; 2340; 2358; 2377; 2406; 2425; 2441; 2463; 2478; 2495; 2512; 2534; 2553; 2583; 2597; 2617; 2688; 2705; 2718; 2733; 2752; 2769; 2782; 2823; 2837; 2850; 2868; 2906; 2921; 2939; 2980; 3004; 3024; 3042; 3063; 3086; 3118; 3133; 3155; 3173; 3186; 3207; 3224; 3237; 3250; 3266; 3279; 3309; 3324; 3349; 3367; 3380; 3395; 3419; 3433; 3457; 3482; 3498; 3536; 3552; 3591; 3605; 3619; 3647; 3663; 3677; 3691; 3720; 3733; 3754; 3763; 3785; 3815; 3831; 3849; 3879; 3902; 3926; 3950; 3969; 3997; 4023; 4039; 4052; 4075; 4089; 4109; 4122; 4136; 4155; 4169; 4182; 4198; 4213; 4226; 4242; 4257; 4273; 4298; 4317; 4333; 4346; 4359; 4377; 4391; 4405; 4421; 4443; 4459; 4478; 4500; 4516; 4539; 4558; 4572; 4588; 4602; 4622; 4638; 4651; 4673; 4706; 4720; 4740; 4753; 4767; 4821; 4834; 4857; 4870; 4889; 4906; 4933; 4969; 5002; 5021; 5046; 5067; 5094; 5107; 5124; 5138; 5153; 5169; 5229; 5254; 5270; 5292; 5305; 5319; 5350; 5364; 5389; 5407; 5422; 5435; 5454; 5467; 5482; 5511; 5530; 5548; 5573; 5588; 5607; 5623; 5642; 5660; 5676; 5690; 5709; 5736; 5759; 5781; 5800; 5815; 5828; 5845; 5865; 5892; 5905; 5924; 5949; 5972; 5986; 5999; 6016 |
| MspJI | !NNNNNNNNNNNNYNG | 254 | 8; 35; 59; 76; 97; 123; 145; 168; 197; 221; 269; 281; 310; 330; 347; 377; 400; 437; 465; 492; 511; 531; 553; 574; 592; 616; 634; 664; 688; 706; 730; 749; 771; 790; 811; 832; 858; 878; 907; 949; 983; 1004; 1024; 1051; 1069; 1086; 1114; 1132; 1153; 1172; 1198; 1220; 1248; 1266; 1292; 1311; 1331; 1351; 1369; 1391; 1411; 1434; 1467; 1486; 1504; 1542; 1561; 1590; 1616; 1638; 1658; 1678; 1698; 1715; 1735; 1762; 1781; 1804; 1826; 1855; 1891; 1915; 1937; 1958; 2001; 2032; 2050; 2074; 2097; 2114; 2138; 2156; 2190; 2209; 2229; 2250; 2267; 2320; 2338; 2355; 2380; 2399; 2416; 2433; 2464; 2488; 2509; 2527; 2557; 2581; 2603; 2624; 2641; 2663; 2697; 2726; 2755; 2797; 2880; 2918; 2942; 2965; 2994; 3038; 3060; 3092; 3128; 3145; 3166; 3203; 3223; 3240; 3257; 3292; 3310; 3328; 3345; 3369; 3391; 3418; 3446; 3472; 3510; 3531; 3548; 3566; 3589; 3610; 3638; 3661; 3682; 3700; 3721; 3738; 3761; 3785; 3805; 3823; 3845; 3876; 3898; 3924; 3943; 3960; 3988; 4007; 4026; 4044; 4062; 4083; 4105; 4129; 4162; 4182; 4200; 4221; 4247; 4274; 4291; 4308; 4325; 4351; 4373; 4395; 4413; 4433; 4452; 4474; 4512; 4532; 4556; 4576; 4596; 4623; 4647; 4680; 4699; 4727; 4749; 4778; 4806; 4831; 4850; 4869; 4890; 4907; 4924; 4955; 4982; 5002; 5025; 5045; 5082; 5099; 5118; 5144; 5164; 5203; 5230; 5249; 5267; 5304; 5322; 5363; 5381; 5407; 5424; 5456; 5485; 5513; 5534; 5557; 5576; 5597; 5615; 5632; 5650; 5676; 5697; 5717; 5737; 5755; 5776; 5802; 5819; 5838; 5857; 5886; 5905; 5923; 5942; 5960; 5978; 6001 |
| MspR9I | CC↓INGG | 32 | 90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1512; 1513; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4049; 4209; 4432; 4822; 5011; 5114; 5586; 5804; 5817; 5938 |
| MssI | GTTT↓AAAC | 0 | |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|---------------------------|-------|--|
| MunI | C!AATTG | 1 | 2795 |
| MvaI | CC!WGG | 26 | 90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4432; 5011; 5114; 5804; 5817; 5938 |
| Mva1269I | GAATGCN! | 1 | 2796 |
| Mva1269I | G!CATTC | 1 | 2889 |
| MvnI | CG!CG | 15 | 60; 2933; 2969; 3345; 3365; 3389; 3420; 4111; 4412; 4850; 4934; 4997; 5066; 5339; 5920 |
| MvrI | CGAT!CG | 0 | |
| MwoI | GCNNNNN!NNGC | 36 | 90; 212; 244; 283; 376; 400; 639; 1070; 1379; 1571; 2015; 2137; 2161; 2317; 2369; 2456; 2527; 3272; 3302; 3329; 3371; 3612; 3684; 3735; 3814; 4036; 4120; 4143; 4282; 4405; 4488; 4755; 4942; 5146; 5345; 5917 |
| NaeI | GCC!GGC | 3 | 3264; 4547; 4830 |
| NarI | GG!CGCC | 1 | 4045 |
| NciI | CC!SGG | 6 | 1512; 1513; 4049; 4209; 4822; 5586 |
| NcoI | C!CATGG | 4 | 360; 2247; 3774; 4477 |
| NdeI | CA!TATG | 2 | 234; 2136 |
| NdeII | !GATC | 26 | 585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397 |
| NgoAVIII | GACNNNNNTGANNNNNNNNNNNN! | 1 | 280 |
| NgoAVIII | !NNNNNNNNNNNTCANNNNNGTC | 1 | 722 |
| NgoAVIII | TCANNNNNGTCNNNNNNNNNNNN! | 1 | 758 |
| NgoAVIII | !NNNNNNNNNNNGACNNNNNTGA | 1 | 244 |
| NgoMIV | G!CCGGC | 3 | 3262; 4545; 4828 |
| NheI | G!CTAGC | 1 | 591 |
| NlaIII | CATG! | 28 | 304; 364; 609; 633; 639; 651; 729; 875; 1086; 1785; 1932; 2173; 2251; 2262; 2454; 3475; 3615; 3687; 3778; 3919; 4264; 4450; 4481; 4507; 4863; 5247; 5967; 6018 |
| NlaIV | GGN!NCC | 25 | 467; 657; 717; 1108; 1535; 1566; 2061; 2102; 2294; 2362; 2411; 2682; 3200; 3221; 3233; 3424; 3585; 3657; 4046; 4081; 4929; 5008; 5053; 5896; 5935 |
| NlaCI | CATCACNNNNNNNNNNNNNNNNNN! | 6 | 694; 1623; 2058; 2877; 3192; 4784 |
| NlaCI | !NNNNNNNNNNNNNNNNNGTGATG | 3 | 347; 982; 5856 |
| Nli3877I | CYCGR!G | 3 | 1323; 1515; 1638 |
| NmeAIII | GCCGAGNNNNNNNNNNNNNNNNNN! | 2 | 3834; 4270 |
| NmeAIII | !NNNNNNNNNNNNNNNNNNCTCGGC | 2 | 998; 3799 |
| NmeDI | RCCGGYNNNNNNNN! | 5 | 1723; 3274; 4376; 4557; 4840 |
| NmeDI | !NNNNNNNNNNNNRCCGGY | 5 | 1698; 3249; 4351; 4532; 4815 |
| NmuCI | !GTSAC | 7 | 882; 1435; 2236; 2284; 3334; 4165; 4471 |
| NotI | GC!GGCCGC | 0 | |
| NruI | TCG!CGA | 0 | |
| NsbI | TGC!GCA | 1 | 4147 |
| NsiI | ATGCA!T | 3 | 3617; 3689; 6020 |
| NspI | RCATG!Y | 6 | 633; 2454; 3615; 3687; 4450; 5967 |
| NspV | TT!CGAA | 1 | 4727 |
| OliI | CACNN!NNGTG | 1 | 2407 |
| PabI | GTA!C | 12 | 220; 245; 300; 333; 384; 541; 647; 1049; 2279; 2436; 2546; 4352 |
| PacI | TTAAT!TAA | 0 | |
| PaeI | GCATG!C | 4 | 2454; 3615; 3687; 4450 |
| PaeR7I | C!TCGAG | 1 | 1319 |
| PagI | T!CATGA | 2 | 3471; 5243 |
| PalAI | GG!CGCGCC | 0 | |
| PasI | CC!CWGGG | 3 | 825; 5010; 5113 |
| PauI | G!CGCGC | 0 | |
| PceI | AGG!CCT | 3 | 1030; 2482; 3866 |
| PciI | A!CATGT | 1 | 5963 |
| PciSI | GCTCTCN! | 1 | 1585 |
| PciSI | !NNNNGAAGAGC | 2 | 4389; 4599 |
| PcsI | WCGNNNN!NNNCGW | 7 | 1232; 4339; 4416; 4659; 4733; 5126; 5644 |
| PctI | GAATGCN! | 1 | 2796 |
| PctI | G!CATTC | 1 | 2889 |
| PdiI | GCC!GGC | 3 | 3264; 4547; 4830 |
| PdmI | GAANN!NNTTC | 1 | 1758 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|-----------------------------|-------|---|
| PfeI | G!AWTC | 8 | 731; 1208; 2635; 4530; 4664; 4774; 4811; 5989 |
| Pfl23II | C!GTACG | 0 | |
| PfIFI | GACN!NNGTC | 1 | 4163 |
| PfIMI | CCANNNN!NTGG | 1 | 2352 |
| PfoI | T!CCNGGA | 2 | 935; 4820 |
| PhoI | GG!CC | 33 | 84; 277; 752; 995; 1030; 1064; 1087; 1219; 1261; 1352; 1424; 1945; 2131; 2428; 2482; 2584; 3011; 3153; 3808; 3814; 3823; 3866; 3953; 4127; 4518; 4545; 5054; 5111; 5144; 5489; 5923; 5941; 5952 |
| PinAI | A!CCGGT | 1 | 1711 |
| PlaDI | CATCAGNNNNNNNNNNNNNNNNNNNN! | 1 | 4426 |
| PlaDI | !NNNNNNNNNNNNNNNNNNNNCTGATG | 3 | 2492; 3991; 4246 |
| PleI | GAGTCNNNN! | 3 | 889; 3096; 3528 |
| PleI | !NNNNNGACTC | 6 | 404; 1304; 1456; 3104; 4710; 5587 |
| Ple19I | CGAT!CG | 0 | |
| PmaCI | CAC!GTG | 1 | 1506 |
| PmeI | GTTT!AAAC | 0 | |
| PmlI | CAC!GTG | 1 | 1506 |
| PpiI | GAACNNNNNCTCNNNNNNNNNNNN! | 1 | 3127 |
| PpiI | !NNNNNNNGAGNNNNNGTTC | 1 | 5257 |
| PpiI | GAGNNNNNGTTCNNNNNNNNNNNN! | 1 | 5289 |
| PpiI | !NNNNNNNGAACNNNNNNCTC | 1 | 3095 |
| Ppsi | GAGTCNNNN! | 3 | 889; 3096; 3528 |
| Ppsi | !NNNNNGACTC | 6 | 404; 1304; 1456; 3104; 4710; 5587 |
| Ppu10I | A!TGCAT | 3 | 3613; 3685; 6016 |
| Ppu21I | YAC!GTR | 5 | 340; 1506; 2547; 3161; 4349 |
| PpuMI | RG!GWCCY | 0 | |
| Psci | A!CATGT | 1 | 5963 |
| PshAI | GACNN!NNGTC | 2 | 1234; 1958 |
| PshBI | AT!TAAT | 1 | 7 |
| PsiI | TTA!TAA | 2 | 2828; 3033 |
| Psp03I | GGWC!C | 4 | 1683; 2499; 4564; 5009 |
| Psp5II | RG!GWCCY | 0 | |
| Psp6I | !CCWGG | 26 | 88; 281; 776; 824; 920; 935; 1064; 1173; 1352; 1397; 1847; 1904; 2096; 2412; 2423; 2482; 2492; 3579; 3634; 3651; 4430; 5009; 5112; 5802; 5815; 5936 |
| Psp1406I | AA!CGTT | 0 | |
| Psp124BI | GAGCT!C | 1 | 1391 |
| PspCI | CAC!GTG | 1 | 1506 |
| PspEI | G!GTNACC | 0 | |
| PspGI | !CCWGG | 26 | 88; 281; 776; 824; 920; 935; 1064; 1173; 1352; 1397; 1847; 1904; 2096; 2412; 2423; 2482; 2492; 3579; 3634; 3651; 4430; 5009; 5112; 5802; 5815; 5936 |
| PspLI | C!GTACG | 0 | |
| PspN4I | GGN!NCC | 25 | 467; 657; 717; 1108; 1535; 1566; 2061; 2102; 2294; 2362; 2411; 2682; 3200; 3221; 3233; 3424; 3585; 3657; 4046; 4081; 4929; 5008; 5053; 5896; 5935 |
| PspOMI | G!GGCCC | 0 | |
| PspOMII | CGCCARNNNNNNNNNNNNNNNNNNN! | 4 | 125; 2010; 3775; 4774 |
| PspOMII | !NNNNNNNNNNNNNNNNNNNYTGGGCG | 1 | 4177 |
| PspPI | G!GNCC | 14 | 83; 276; 751; 994; 1086; 1680; 2496; 2583; 3152; 4561; 5006; 5052; 5110; 5143 |
| PspPPI | RG!GWCCY | 0 | |
| PspPRI | CCYCAGNNNNNNNNNNNNNNNNNN! | 4 | 1866; 3598; 3670; 5176 |
| PspPRI | !NNNNNNNNNNNNNNNNNNCTGRGG | 5 | 846; 1274; 2463; 3511; 4706 |
| PspXI | VC!TCGAGB | 0 | |
| PsrI | GAACNNNNNNNTACNNNNNNNNNNNN! | 0 | |
| PsrI | !NNNNNNNGTANNNNNNGTTC | 0 | |
| PsrI | GTANNNNNNGTTCNNNNNNNNNNNN! | 0 | |
| PsrI | !NNNNNNNGAACNNNNNNNTAC | 0 | |
| Pssi | RGGNC!CY | 1 | 5146 |
| PstI | CTGCA!G | 0 | |
| PstNI | CAGNNN!CTG | 3 | 1268; 5146; 5554 |
| PsuI | R!GATCY | 12 | 585; 1141; 1315; 2680; 2689; 4216; 4462; 4854; 5213; 5225; 5311; 5322 |
| PsyI | GACN!NNGTC | 1 | 4163 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|------------------------------|-------|---|
| PteI | G!CGCGC | 0 | |
| PvuI | CGAT!CG | 0 | |
| PvuII | CAG!CTG | 3 | 1861; 3543; 4151 |
| RcaI | T!CATGA | 2 | 3471; 5243 |
| RceI | CATCGACNNNNNNNNNNNNNNNNNNNN! | 1 | 4560 |
| RceI | !NNNNNNNNNNNNNNNNNNNGTCGATG | 0 | |
| RgaI | GCGAT!CGC | 0 | |
| RigI | GGCCGG!CC | 0 | |
| RleAI | CCCACANNNNNNNNNNNN! | 3 | 1554; 1912; 2774 |
| RleAI | !NNNNNNNNNTGTGGG | 0 | |
| RpaBI | CCCGCAGNNNNNNNNNNNNNNNNNNNN! | 0 | |
| RpaBI | !NNNNNNNNNNNNNNNNNNCTGCGGG | 0 | |
| RpaB5I | CGRGGACNNNNNNNNNNNNNNNNNNNN! | 0 | |
| RpaB5I | !NNNNNNNNNNNNNNNNNNNGTCCYCG | 0 | |
| RruI | TCG!CGA | 0 | |
| RsaI | GT!AC | 12 | 219; 244; 299; 332; 383; 540; 646; 1048; 2278; 2435; 2545; 4351 |
| RsaNI | G!TAC | 12 | 218; 243; 298; 331; 382; 539; 645; 1047; 2277; 2434; 2544; 4350 |
| RseI | CAYNN!NNRTG | 4 | 365; 634; 2407; 4482 |
| RsrII | CG!GWCCG | 1 | 4561 |
| Rsr2I | CG!GWCCG | 1 | 4561 |
| SacI | GAGCT!C | 1 | 1391 |
| SacII | CCGC!GG | 0 | |
| SaI | G!TCGAC | 0 | |
| SapI | GCTCTCN! | 1 | 1585 |
| SapI | !NNNNGAAGAGC | 2 | 4389; 4599 |
| SaqAI | T!TAA | 18 | 7; 620; 1301; 2003; 2746; 2807; 2928; 2949; 2960; 2972; 2983; 3000; 3098; 3369; 5188; 5202; 5207; 5259 |
| SatI | GC!NGC | 39 | 750; 801; 945; 1062; 1243; 1594; 1619; 2268; 2312; 2340; 2600; 2822; 3341; 3363; 3377; 3815; 3954; 4006; 4017; 4107; 4112; 4149; 4190; 4277; 4280; 4283; 4519; 4615; 4656; 4670; 4784; 5123; 5138; 5349; 5555; 5558; 5623; 5766; 5921 |
| Sau96I | G!GNCC | 14 | 83; 276; 751; 994; 1086; 1680; 2496; 2583; 3152; 4561; 5006; 5052; 5110; 5143 |
| Sau3AI | !GATC | 26 | 585; 965; 1115; 1141; 1315; 1661; 2192; 2680; 2689; 2702; 3882; 3886; 3905; 4216; 4294; 4375; 4384; 4462; 4838; 4854; 5213; 5225; 5303; 5311; 5322; 5397 |
| SbfI | CCTGCA!GG | 0 | |
| ScaI | AGT!ACT | 0 | |
| SchI | GAGTCNNNNN! | 3 | 890; 3097; 3529 |
| SchI | !NNNNNGACTC | 6 | 404; 1304; 1456; 3104; 4710; 5587 |
| SciI | CTC!GAG | 1 | 1321 |
| ScrFI | CC!NGG | 32 | 90; 283; 778; 826; 922; 937; 1066; 1175; 1354; 1399; 1512; 1513; 1849; 1906; 2098; 2414; 2425; 2484; 2494; 3581; 3636; 3653; 4049; 4209; 4432; 4822; 5011; 5114; 5586; 5804; 5817; 5938 |
| SdaI | CCTGCA!GG | 0 | |
| SdeAI | CAGRAGNNNNNNNNNNNNNNNNNNNN! | 5 | 1032; 3623; 3695; 3864; 5806 |
| SdeAI | !NNNNNNNNNNNNNNNNNNCTYCTG | 2 | 4200; 4685 |
| SdeOSI | GACNNNNRTGANNNNNNNNNNNN! | 1 | 279 |
| SdeOSI | !NNNNNNNNNNNTCAYNNNNNGTC | 0 | |
| SdeOSI | TCAYNNNNNGTCNNNNNNNNNNNNNN! | 0 | |
| SdeOSI | !NNNNNNNNNNNGACNNNNRTGA | 1 | 245 |
| SduI | GDGCH!C | 22 | 658; 685; 718; 1295; 1391; 1511; 1643; 1711; 1874; 1913; 2064; 2105; 2365; 2490; 3236; 3991; 4084; 4158; 4348; 4410; 5120; 5653 |
| SelI | !CGCG | 15 | 58; 2931; 2967; 3343; 3363; 3387; 3418; 4109; 4410; 4848; 4932; 4995; 5064; 5337; 5918 |
| SetI | ASST! | 91 | 125; 137; 178; 261; 308; 342; 447; 552; 568; 617; 644; 740; 790; 811; 962; 1097; 1166; 1234; 1238; 1253; 1277; 1301; 1349; 1391; 1477; 1508; 1570; 1580; 1598; 1673; 1697; 1744; 1774; 1791; 1823; 1853; 1863; 1973; 1993; 2003; 2078; 2099; 2180; 2291; 2381; 2426; 2435; 2445; 2513; 2549; 2627; 2735; 2756; 2765; 2777; 2826; 2993; 3108; 3120; 3163; 3200; 3250; 3273; 3397; 3545; 3640; 3833; 3946; 4074; 4153; 4164; 4236; 4307; 4351; 4611; 4757; 4801; 5132; 5163; 5222; 5265; 5408; 5429; 5528; 5665; 5680; 5699; 5711; 5755; 5801; 5852 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|------------------|-------|--|
| SexAI | A!CCWGGT | 2 | 2096; 3634 |
| SfaAI | GCGAT!CGC | 0 | |
| SfaNI | GCATCNNNNN! | 12 | 839; 1343; 1418; 2123; 2351; 2393; 2861; 3624; 3696; 4344; 4408; 4683 |
| SfaNI | !NNNNNNNNNGATGC | 9 | 357; 992; 1160; 1418; 1605; 4003; 4258; 4474; 5866 |
| Sfcl | C!TRYAG | 6 | 1194; 1862; 2183; 3380; 5507; 5698 |
| SfiI | GGCCNNNN!NGGCC | 1 | 3820 |
| SfoI | GGC!GCC | 1 | 4046 |
| Sfr274I | C!TCGAG | 1 | 1319 |
| Sfr303I | CCGC!GG | 0 | |
| SfuI | TT!CGAA | 1 | 4727 |
| SgeI | CNNGNNNNNNNNN! | 240 | 6; 36; 71; 97; 123; 223; 236; 252; 290; 307; 336; 373; 407; 426; 491; 548; 579; 604; 618; 642; 660; 690; 714; 732; 747; 789; 816; 837; 858; 871; 884; 912; 933; 948; 975; 1009; 1030; 1050; 1063; 1077; 1095; 1108; 1140; 1158; 1179; 1213; 1239; 1258; 1274; 1292; 1308; 1331; 1357; 1370; 1391; 1410; 1425; 1445; 1502; 1516; 1542; 1574; 1587; 1600; 1616; 1646; 1668; 1684; 1704; 1724; 1740; 1769; 1788; 1821; 1834; 1852; 1917; 1941; 1984; 2031; 2058; 2076; 2100; 2123; 2140; 2155; 2182; 2216; 2235; 2255; 2271; 2293; 2346; 2381; 2406; 2425; 2442; 2463; 2495; 2514; 2535; 2553; 2583; 2597; 2617; 2699; 2752; 2781; 2823; 2906; 2944; 2980; 3064; 3086; 3118; 3155; 3173; 3192; 3207; 3249; 3266; 3283; 3318; 3332; 3349; 3371; 3395; 3419; 3484; 3498; 3536; 3552; 3592; 3605; 3624; 3647; 3664; 3677; 3696; 3726; 3747; 3764; 3787; 3822; 3849; 3880; 3902; 3928; 3950; 3969; 3997; 4033; 4052; 4075; 4089; 4109; 4122; 4136; 4155; 4169; 4188; 4220; 4234; 4247; 4273; 4304; 4317; 4334; 4351; 4365; 4382; 4400; 4415; 4443; 4459; 4478; 4500; 4516; 4539; 4558; 4583; 4602; 4622; 4649; 4673; 4706; 4725; 4753; 4767; 4833; 4857; 4872; 4895; 4916; 4933; 4981; 5008; 5022; 5051; 5075; 5108; 5125; 5145; 5158; 5171; 5229; 5256; 5275; 5305; 5330; 5350; 5364; 5389; 5407; 5444; 5482; 5511; 5539; 5553; 5573; 5588; 5609; 5623; 5642; 5660; 5676; 5716; 5736; 5763; 5781; 5802; 5815; 5828; 5845; 5869; 5892; 5924; 5949; 5976; 5998 |
| SgeI | !NNNNNNNNNNNNCNG | 211 | 10; 45; 71; 97; 197; 226; 264; 281; 310; 347; 381; 400; 465; 522; 553; 578; 598; 616; 634; 664; 688; 706; 730; 763; 790; 811; 832; 858; 886; 907; 949; 983; 1004; 1024; 1051; 1069; 1090; 1114; 1132; 1153; 1187; 1213; 1232; 1266; 1293; 1313; 1331; 1351; 1369; 1391; 1411; 1476; 1497; 1516; 1548; 1574; 1594; 1620; 1642; 1678; 1698; 1743; 1762; 1795; 1826; 1891; 1915; 1958; 2005; 2032; 2050; 2074; 2097; 2114; 2156; 2190; 2209; 2229; 2250; 2267; 2320; 2355; 2380; 2399; 2416; 2437; 2469; 2488; 2509; 2527; 2557; 2591; 2673; 2726; 2755; 2797; 2880; 2918; 2954; 3038; 3060; 3092; 3129; 3147; 3166; 3223; 3240; 3257; 3292; 3310; 3330; 3350; 3369; 3393; 3458; 3510; 3566; 3598; 3621; 3638; 3670; 3700; 3721; 3738; 3761; 3796; 3823; 3854; 3876; 3902; 3924; 3943; 3971; 4007; 4026; 4049; 4070; 4088; 4105; 4129; 4162; 4194; 4221; 4247; 4278; 4308; 4325; 4351; 4374; 4395; 4417; 4437; 4457; 4474; 4513; 4532; 4557; 4576; 4596; 4623; 4647; 4680; 4699; 4727; 4749; 4807; 4831; 4850; 4869; 4890; 4907; 4955; 4982; 5002; 5025; 5049; 5082; 5099; 5119; 5145; 5203; 5230; 5249; 5279; 5304; 5324; 5363; 5381; 5418; 5456; 5485; 5513; 5534; 5562; 5583; 5616; 5634; 5690; 5710; 5737; 5755; 5776; 5802; 5819; 5843; 5866; 5898; 5923; 5950; 5972; 6001 |
| Sgfl | GCGAT!CGC | 0 | |
| SgrAI | CR!CCGGYG | 0 | |
| SgrBI | CCGC!GG | 0 | |
| SgrDI | CG!TCGACG | 0 | |
| SgsI | GG!CGCGCC | 0 | |
| SimI | GG!GTC | 4 | 27; 3192; 4979; 5772 |
| SimI | !GACCC | 5 | 106; 2238; 4473; 5041; 5289 |
| SinI | G!GWCC | 4 | 1680; 2496; 4561; 5006 |
| SlaI | C!TCGAG | 1 | 1319 |
| SmaI | CCC!GGG | 1 | 1513 |
| SmiI | ATTT!AAAT | 0 | |
| SmiMI | CAYNN!NNRTG | 4 | 365; 634; 2407; 4482 |
| SmlI | C!TYRAG | 7 | 1165; 1319; 2605; 4436; 5318; 5595; 5857 |
| SmoI | C!TYRAG | 7 | 1165; 1319; 2605; 4436; 5318; 5595; 5857 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|--------------------------------|-------|---|
| SmuI | CCCGCNNNN! | 11 | 93; 119; 286; 1059; 1161; 2119; 3367; 3722; 3743; 4939; 5071 |
| SmuI | !NNNNNNGCGGG | 6 | 1096; 3298; 4168; 4705; 4843; 4990 |
| SnaBI | TAC!GTA | 1 | 340 |
| SpeI | A!CTAGT | 0 | |
| SphI | GCATG!C | 4 | 2454; 3615; 3687; 4450 |
| SrfI | GCCC!GGGC | 0 | |
| Sse9I | !AATT | 13 | 18; 1302; 1685; 2083; 2795; 2859; 2937; 2963; 2974; 3621; 3693; 3785; 5203 |
| Sse8387I | CCTGCA!GG | 0 | |
| Sse8647I | AG!GWCCT | 0 | |
| SseBI | AGG!CCT | 3 | 1030; 2482; 3866 |
| SsiI | C!CGC | 37 | 58; 86; 98; 112; 279; 507; 589; 914; 1052; 1154; 1572; 2007; 2112; 3360; 3363; 3377; 3467; 3715; 3727; 3736; 3748; 3758; 3769; 3815; 3954; 4017; 4519; 4564; 4630; 4656; 4781; 4784; 4932; 5064; 5371; 5515; 6011 |
| SsiI | G!CGG | 27 | 370; 403; 528; 595; 749; 1061; 1103; 3305; 3332; 3420; 3530; 4111; 4175; 4276; 4279; 4559; 4614; 4712; 4850; 4997; 5137; 5380; 5625; 5746; 5765; 5892; 5920 |
| SspI | AAT!ATT | 2 | 2953; 3506 |
| SspDI | G!GCGCC | 1 | 4044 |
| SspD5I | GGTGANNNNNNNN! | 8 | 376; 987; 2241; 2296; 2563; 2665; 5116; 5232 |
| SspD5I | !NNNNNNNNNTCACC | 7 | 875; 1025; 1760; 1880; 2186; 3161; 4222 |
| SstI | GAGCT!C | 1 | 1391 |
| SstII | CCGC!GG | 0 | |
| SstE37I | CGAAGACNNNNNNNNNNNNNNNNNNNNNN! | 1 | 920 |
| SstE37I | !NNNNNNNNNNNNNNNNNGTCTTCG | 0 | |
| Sth132I | CCCGNNNN! | 23 | 92; 118; 285; 842; 1058; 1160; 1424; 1518; 1641; 2118; 2592; 3244; 3366; 3721; 3742; 4055; 4458; 4597; 4668; 4938; 5070; 5300; 5738 |
| Sth132I | !NNNNNNNNNCGGG | 22 | 15; 407; 470; 891; 1095; 1481; 1504; 3245; 3297; 3398; 4125; 4167; 4200; 4704; 4813; 4842; 4989; 5093; 5124; 5577; 5621; 5829 |
| Sth302II | CC!GG | 20 | 1308; 1513; 1713; 2688; 3264; 3951; 4028; 4050; 4078; 4209; 4299; 4366; 4547; 4822; 4830; 4922; 5396; 5586; 5612; 5759 |
| StrI | C!TCGAG | 1 | 1319 |
| StsI | GGATGNNNNNNNNNN! | 5 | 2572; 3913; 4370; 4395; 4849 |
| StsI | !NNNNNNNNNNNNNNNNCATCC | 10 | 671; 759; 816; 971; 1326; 1395; 1869; 2100; 2328; 3717 |
| StuI | AGG!CCT | 3 | 1030; 2482; 3866 |
| StyI | C!CWWGG | 7 | 360; 2247; 2429; 3774; 3867; 4477; 4882 |
| StyD4I | !CCNGG | 32 | 88; 281; 776; 824; 920; 935; 1064; 1173; 1352; 1397; 1510; 1511; 1847; 1904; 2096; 2412; 2423; 2482; 2492; 3579; 3634; 3651; 4047; 4207; 4430; 4820; 5009; 5112; 5584; 5802; 5815; 5936 |
| SwaI | ATTT!AAAT | 0 | |
| Taal | ACN!GT | 17 | 76; 198; 269; 543; 581; 660; 1542; 2281; 2406; 3136; 4425; 4541; 4649; 4972; 5463; 5933; 6004 |
| TaiI | ACGT! | 21 | 125; 137; 178; 261; 342; 447; 962; 1238; 1349; 1508; 1791; 2291; 2549; 3108; 3120; 3163; 3273; 4164; 4351; 5132; 5265 |
| TaqI | T!CGA | 17 | 743; 770; 1238; 1320; 1973; 1979; 3194; 3885; 4158; 4314; 4338; 4374; 4536; 4727; 4772; 5027; 5865 |
| TaqII | GACCGANNNNNNNNNN! | 4 | 1697; 3065; 4082; 4750 |
| TaqII | !NNNNNNNNNTCGGTC | 1 | 4994 |
| TaqII | CACCCANNNNNNNNNN! | 3 | 733; 838; 1909 |
| TaqII | !NNNNNNNNNTGGGTG | 4 | 172; 2539; 3949; 4541 |
| TasI | !AATT | 13 | 18; 1302; 1685; 2083; 2795; 2859; 2937; 2963; 2974; 3621; 3693; 3785; 5203 |
| TatI | W!GTACW | 5 | 217; 297; 330; 381; 644 |
| TauI | GCSG!C | 17 | 752; 1064; 3365; 3379; 3817; 3956; 4019; 4114; 4279; 4282; 4521; 4617; 4658; 4786; 5140; 5768; 5923 |
| TfiI | G!AWTC | 8 | 731; 1208; 2635; 4530; 4664; 4774; 4811; 5989 |
| THI | C!TCGAG | 1 | 1319 |
| TruII | T!TAA | 18 | 7; 620; 1301; 2003; 2746; 2807; 2928; 2949; 2960; 2972; 2983; 3000; 3098; 3369; 5188; 5202; 5207; 5259 |
| Tru9I | T!TAA | 18 | 7; 620; 1301; 2003; 2746; 2807; 2928; 2949; 2960; 2972; 2983; 3000; 3098; 3369; 5188; 5202; 5207; 5259 |
| TscAI | CASTGNN! | 13 | 1262; 1488; 1566; 1711; 2043; 2373; 2409; 2545; 2891; 4174; 5284; 5555; 5568 |

| Enzyme name | Sequence | Count | Cutting Position (the base to the left of the cut site) |
|-------------|--------------------------|-------|--|
| TseI | G!CWGC | 22 | 800; 944; 1242; 1593; 1618; 2267; 2311; 2339; 2599; 2821; 3340; 4005; 4106; 4148; 4189; 4282; 4669; 5122; 5348; 5554; 5557; 5622 |
| TsoI | TARCCANNNNNNNNNNN! | 3 | 2032; 3017; 3364 |
| TsoI | !NNNNNNNNNTGGYTA | 3 | 769; 2822; 4574 |
| Tsp45I | !GTSAC | 7 | 882; 1435; 2236; 2284; 3334; 4165; 4471 |
| Tsp509I | !AATT | 13 | 18; 1302; 1685; 2083; 2795; 2859; 2937; 2963; 2974; 3621; 3693; 3785; 5203 |
| TspDTI | ATGAANNNNNNNNNNN! | 6 | 652; 1565; 2186; 2803; 4104; 4808 |
| TspDTI | !NNNNNNNNNTTCAT | 6 | 26; 801; 1917; 4522; 4978; 5185 |
| TspEI | !AATT | 13 | 18; 1302; 1685; 2083; 2795; 2859; 2937; 2963; 2974; 3621; 3693; 3785; 5203 |
| TspGWI | ACGGANNNNNNNNNNN! | 1 | 4920 |
| TspGWI | !NNNNNNNNNTCCGT | 0 | |
| TspMI | C!CCGGG | 1 | 1511 |
| TspRI | CASTGNN! | 13 | 1262; 1488; 1566; 1711; 2043; 2373; 2409; 2545; 2891; 4174; 5284; 5555; 5568 |
| TstI | CACNNNNNTCCNNNNNNNNNN! | 0 | |
| TstI | !NNNNNNNGGANNNNNNNGTG | 0 | |
| TstI | GGANNNNNGTGNNNNNNNNNNNN! | 0 | |
| TstI | !NNNNNNNCCACNNNNNNNTCC | 0 | |
| Tth111I | GACN!NNGTC | 1 | 4163 |
| Tth111II | CAARCANNNNNNNNNNN! | 4 | 862; 1137; 1516; 5372 |
| Tth111II | !NNNNNNNNNTGYTTG | 5 | 1510; 2192; 4480; 5340; 5379 |
| UnbI | !GGNCC | 14 | 82; 275; 750; 993; 1085; 1679; 2495; 2582; 3151; 4560; 5005; 5051; 5109; 5142 |
| Van91I | CCANNNN!NTGG | 1 | 2352 |
| Vha464I | C!TTAAG | 0 | |
| VneI | G!TGCAC | 3 | 681; 1707; 5649 |
| VpaK11AI | !GGWCC | 4 | 1679; 2495; 4560; 5005 |
| VpaK11BI | G!GWCC | 4 | 1680; 2496; 4561; 5006 |
| VspI | AT!TAAT | 1 | 7 |
| XagI | CCTNN!NNNAGG | 2 | 2428; 2608 |
| XapI | R!AATTY | 5 | 1685; 2083; 2859; 2963; 2974 |
| XbaI | T!CTAGA | 1 | 2692 |
| XceI | RCATG!Y | 6 | 633; 2454; 3615; 3687; 4450; 5967 |
| XcmI | CCANNNNN!NNNNTGG | 1 | 1744 |
| XhoI | C!TCGAG | 1 | 1319 |
| XhoII | R!GATCY | 12 | 585; 1141; 1315; 2680; 2689; 4216; 4462; 4854; 5213; 5225; 5311; 5322 |
| XmaI | C!CCGGG | 1 | 1511 |
| XmaJI | C!CTAGG | 2 | 3867; 4882 |
| XmiI | GT!MKAC | 3 | 1181; 1526; 1934 |
| XmnI | GAANN!NNTTC | 1 | 1758 |
| XspI | C!TAG | 10 | 592; 785; 1280; 2693; 2894; 3312; 3868; 4883; 5217; 5470 |
| ZraI | GAC!GTC | 4 | 123; 176; 259; 445 |
| ZrmI | AGT!ACT | 0 | |
| Zsp2I | ATGCA!T | 3 | 3617; 3689; 6020 |