Figure S4. Crossing schema to test whether Mop2-1 prevents p1 paramutation. The paramutagenic P1-rr' allele has light patterned pericarp, while paramutable P1-rr has red pericarp pigment. The P1.2b::GUS transgene carried the highly paramutagenic P2P147-37 integration event [13]. To assay whether the Mop2-1 mutation would prevent p1 paramutation, plants carrying the paramutagenic endogenous P1-rr' allele and the P1.2b::GUS transgene were pollinated with the Mop2-1 P1-rr stock. Because the B' allele was introduced together with the Mop2-1 mutation we used dark plant pigment for initial identification of Mop2-1 homozygous plants in segregating families, and subsequent molecular markers were used to verify the Mop2-1/Mop2-1 and Mop2-1/+ genotypes. Spraying with the BASTA herbicide eliminated non transgenic plants. In the F₁ all transgenic plants had light pericarp color indicating that when Mop2-1 is heterozygous it does not p1 prevent paramutation. A backcross with the Mop2-1 stock was used to generate families in which the effect of homozygous Mop2-1 on preventing p1 paramutation was assayed. Results are presented in Table 2.