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Allele test results for Maize Genetics Stock Center "phenotype only" shrunken stocks.

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We report here the results of tests of allelism of shrunken mutants from the Maize Genetic Stock Center's collection of mutants characterized by phenotype only. Either homozygous or known heterozygote mutant plants were crossed by homozygous sh1-ref testers; allele tests were considered positive if the resulting ears bore shrunken1-like kernels. The mutants that gave positive tests of allelism are presented in Table 1. One mutant, sh*-8506, gave negative results and upon closer inspection, mutant kernels appear to be more like a weak sh2 type than a sh1 type. A second mutant, sh*-N1531, produced pale green plants that died at the seedling stage and could not be tested; mutants with similar phenotype include o5 and sh6, and allelism with these mutants will be tested at a later date.

Table 1. Results of allele tests of shrunken mutants from the Maize Genetics Stock Center phenotype only collection.

Old Stock No. and designation	New Stock No. and designation
5709J sh*-8906	942A sh1-8906
5709M sh*-1982-2	942B sh1-1982-2
5709N sh*-83-3328-24	942C sh1-83-3328-24
5709P sh*-84-5248-20	942D sh1-84-5248-20
5709Q sh*-84-5317-44	942E sh1-84-5317-44
5709R sh*-85-3045-7	942F sh1-85-3045-7
5710B sh*-85-3375-38	942G sh1-85-3375-38
5710C sh*-86-1565-17	942H sh1-86-1565-17
5710E sh*-87-2045-25	942I sh1-87-2045-25
5710F sh*-87-2050-1	942J sh1-87-2050-1
5710G sh*-87-2050-3	942K sh1-87-2050-3
5710I sh*-87-2215-12	942L sh1-87-2215-12
5710L sh*-87-2410-24	942M sh1-87-2410-24
5710O sh*-88-89-3540-1	942N sh1-88-89-3540-1
5711H sh*-PI596356	942O sh1-PI596356
5711I sh*-RJL	942P sh1-RJL

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