

**Name:** *yellow-green2 (yg2)*

**Accessions:** Ph2 (LA4475)

**Gene ID:** Solyc12g009470

**Map position:** chromosome 12 (short arm)

**Gene function:** Heme Oxygenase (*LeHO1*)

**Gene effect:** plants with the mutated allele have impaired photomorphogenesis responses (de-etiolation, chloroplast differentiation) due to a 51-bp deletion and 1-bp insertion within the coding region.

**Phenotypes:** Young MT-*yg2* seedlings are chlorotic, have longer hypocotyls, repressed opening of the apical hook and delayed cotyledon development. Adult plants present partially-etiolated phenotype with yellowish leaves with some white spots.

**Comments:**

**Description of accessions available:** MT-*yg2* is a BC6Fn introgressed from LA2514

**Figures:**



Left photo: 7-days-old seedlings from MT (left) and *yg2* (right). Right photo: the double mutant MT-*au-yg2* seedling (left) is albino (no chloroplast formation). This double mutant is lethal (seedlings will die since it is unable to do photosynthesis).

## Bibliography

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