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.

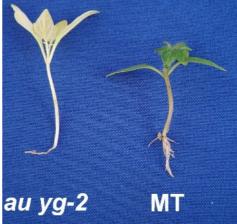
Phenotypes: Young MT-*yg2* seedlings are chlorotic, have longer hypocotyls, repressed opening of the apical hook and delayed cotyledon development. Adult plants present partially-etiolated phenotype with yellowish leaves with some white spots.

Comments:

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

Figures:





<u>Left photo</u>: 7-days-old seedlings from MT (left) and *yg2* (right). <u>Right photo</u>: 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).

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