Name: *white flower (wf)*

Accessions: OC4

Gene ID: Solyc03g007960

Map position: chromosome 3 (short arm).

Gene function: chromoplast-specific beta-carotene hydroxylase (*CrtR-B2*).

Gene effect: plants with the mutated allele present white flowers due to the low xanthophylls (Neoxanthin and Violaxanthin) content of the corolla.

Phenotypes: Corolla color is buff, light tan or white

Comments:

Description of accessions available: MT-*wf* is a BC6Fn introgressed from LA0159.

Figures:

MT-*wf* (right) showing white corolla color as compared with the control MT (left).

Bibliography

Galpaz N, Ronen G, Khalfa Z, Zamir D, Hirschberg J (2006) A chromoplast-specific carotenoid biosynthesis pathway is revealed by cloning of the tomato white-flower locus. Plant cell 18: 1947-1960.

D'Ambrosio C, Stigliani AL, Giorio G (2011) Overexpression of *CrtR-b2* (carotene beta hydroxylase 2) from *S. lycopersicum* L. differentially affects xanthophyll synthesis and accumulation in transgenic tomato plants. Transgenic Research 20:47-60.