

**Name:** *multiflora (mult)*

**Accessions:** Flo5

**Gene ID:** Solyc02g077390

**Map position:** chromosome 2 (long arm)

**Gene function:** *WUSCHEL-homeobox (WOX)* transcription factor; homologue to the *AtWOX9/STYP* gene

**Gene effect:** plants with the mutated allele delay the differentiation of inflorescence meristem into flower meristem.

**Phenotypes:** *MT-mult* presents inflorescence with excessive branches, resulting in a large mass of 20 or more flowers and buds.

**Comments:** *mult* is allelic to compound inflorescence (*s*).

**Description of accessions available:** *MT-mult* is a BC6Fn introgressed from LA0560

**Figures:**



*MT-mult* showing increased number of flowers per truss.

## **Bibliography**

Crane MB (1915) Heredity of types of inflorescence and fruits in tomato. *Jour. Genetics* 5: 1-12.

Lippman ZB, Cohen O, Alvarez JP, Abu-Abied M, Pekker I, Paran I, Eshed Y, Zamir D (2008) The making of a compound inflorescence in tomato and related nightshades. *PLoS Biology* 6: e288. doi:10.1371/journal.pbio.0060288.

Quinet M, Dielen V, Batoko H, Boutry M, Havelange A, Kinet JM (2006) Genetic interactions in the control of flowering time and reproductive structure development in tomato (*Solanumlycopersicum*). *New Phytologist* 170: 701–710.