

**Name:** *Locule number (Lc)*

**Accessions:** FS5

**Gene ID:**

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

**Gene function:** two SNPs located 1,080 bp from the stop codon of WUSCHEL (Solyc02g083950)

**Gene effect:**

**Phenotypes:** Plants with the mutated allele causes a bell pepper shape of fruits when in combination with *fs8.1* mutation.

**Comments:**

**Description of accessions available:** MT-*Lc* is a BCnFn introgressed from cv Yellow Stuffer.

**Figures:**

## Bibliography

Lippman Z, Tanksley S (2001) Dissecting the genetic pathway to extreme fruit size in tomato using a cross between the small-fruited wild species *Lycopersicon pimpinellifolium* and *L. esculentum* var. Giant Heirloom. *Genetics* 158:413–422

Muños S, Ranc N, Botton E, Bérard A, Rolland S, Duffé P, Carretero Y, Le Paslier M-C, Delalande C, Bouzayen M, Brunel D, Causse M (2011) Increase in tomato locule number is controlled by two single-nucleotide polymorphisms located near WUSCHEL. *Plant Physiology* 156:2244–2254.

Rodríguez GR, Muños S, Anderson C, Sim S-C, Michel A, Causse M, Gardener BBM, Francis D, van der Knaap E (2011). Distribution of SUN, OVATE, LC and FAS in the tomato germplasm and the relationship to fruit shape diversity. *Plant Physiology* 156: 275-285

Tanksley SD (2004) The genetic, developmental, and molecular bases of fruit size and shape variation in tomato. *The Plant Cell* 16:S181–189.

Yeager A (1937) Studies on the inheritance and development of fruit size and shape in the tomato. *Journal of Agricultural Research* 55:141–152

