

**Name:** *ovate* (*o*)

**Accessions:** FS2

**Gene ID:** Solyc02g085500

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

**Gene function:** hydrophilic protein with a protein–protein interaction domain probably involved in the negative regulation of organ growth.

**Gene effect:** mutated allele causes the conversion of round fruits into pear-shaped or elongated fruits in tomato.

**Phenotypes:** MT-*o* presents ovate or pear-shaped fruits.

**Comments:** Plants harboring the *ovate* allele tend to present blossom end rot (dark rot of the bottom of the fruit due to calcium deficiency). This is very often under high transpiration rates (hot summers)

**Description of accessions available:** MT-*o* is a BC6Fn introgressed from a local cultivar.

**Figures:**



Left photo: MT-*o* showing elongated fruits with one presenting blossom end rot. Right photo: Pear-shaped fruit in a plant harboring both *ovate* and *sun* allele, besides wild type *uniform fruit* allele.

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