

Name: *fruit shape 8.1 (fs8.1)*

Accessions: FS4

Gene ID:

Map position: chromosome 8

Gene function:

Gene effect:

Phenotypes: MT-*fs8.1* fruit are no longer round but rather slightly elongated. The individual carpels took on a more bulbous, extended morphology, giving the fruit the appearance of being block or square-shaped. *fs8.1* affects not only fruit shape, fruit length, and fruit weight but also the number of flowers and fruits per inflorescence, and the harvest index.

Comments:

Description of accessions available: MT- *fs8.1* is a BC6Fn introgressed from cv Yellow Stuffer

Figures:



MT-*fs8.1* showing elongated fruit shape. The leaves are impregnated with sulfur used to combat *Oidium* fungus.

Bibliography

Grandillo S, Ku HM, Tanksley SD (1996) Characterization of *fs8.1*, a major QTL influencing fruit shape in tomato. *Molecular Breeding* 2:251–260.

Ku HM, Grandillo G, Tanksley SD (2000) *fs8.1*, a major QTL, sets the pattern of tomato carpel shape well before anthesis. *Theoretical and Applied Genetics* 101:873–878.

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

van der Knaap E, Tanksley SD (2003) The making of a bell pepper-shaped tomato fruit: Identification of loci controlling fruit morphology in Yellow Stuffer tomato. *Theoretical and Applied Genetics* 107:139–147.