Name: lateral suppresser (ls)

Accessions: Br3

Gene ID: Solyc07g066250

Map position: chromosome 7 (long arm)

Gene function: A protein from the GRAS family.

Gene effect: the mutated allele with a loss of function of domain VHIID suppresses the formation of axillary meristems.

Phenotypes: MT-*Is* presents few or no axillary branches; corolla suppressed; partially male sterile.

Comments:

Description of accessions available: MT-*ls* is a BC6Fn introgressed from LA0329.

Figures:



MT-*ls* showing flowers without corollas (petals). The yellow organs are stamens.

Bibliography

Lombardi-Crestana S, Azevedo MS, Silva GFF, Pino LE, Appezzato-da-Glória B, Figueira A, Nogueira FTS, Peres LEP (2012) The tomato (*Solanum lycopersicum* cv Micro-Tom) natural genetic variation *Rg1* and the DELLA mutant *procera* control the competence

necessary to form adventitious roots and shoots. Journal of Experimental Botany, 63:5689–5703.

Schumacher K, Ganal M, Theres K (1995) Genetic and physical mapping of the *lateral suppressor (ls)* locus in tomato. Molecular Genetics & Genomics 246:761-6.

Schumacher K, Schmitt T, Rossberg M, Schmitz G, Theres K (1999) The *Lateral suppressor (Ls)* gene of tomato encodes a new member of the VHIID protein family. PNAS USA 96:290-295.

Szymkowiak EJ, Sussex IM (1993) Effect of lateral suppressor on petal initiation in tomato. Plant Journal 4:1-7.