

Name: *curl3 (cu3)*

Accessions: H14 (LA4481)

Gene ID: Solyc04g051510

Map position: chromosome 4

Gene function: brassinosteroid receptor (*LeBRI1*), homologue to *AtBRI1*

Gene effect: mutated allele is brassinosteroid insensitive

Phenotypes: dwarf, dense curly leaves, curled cotyledons, de-etiolation and reduced fertility.

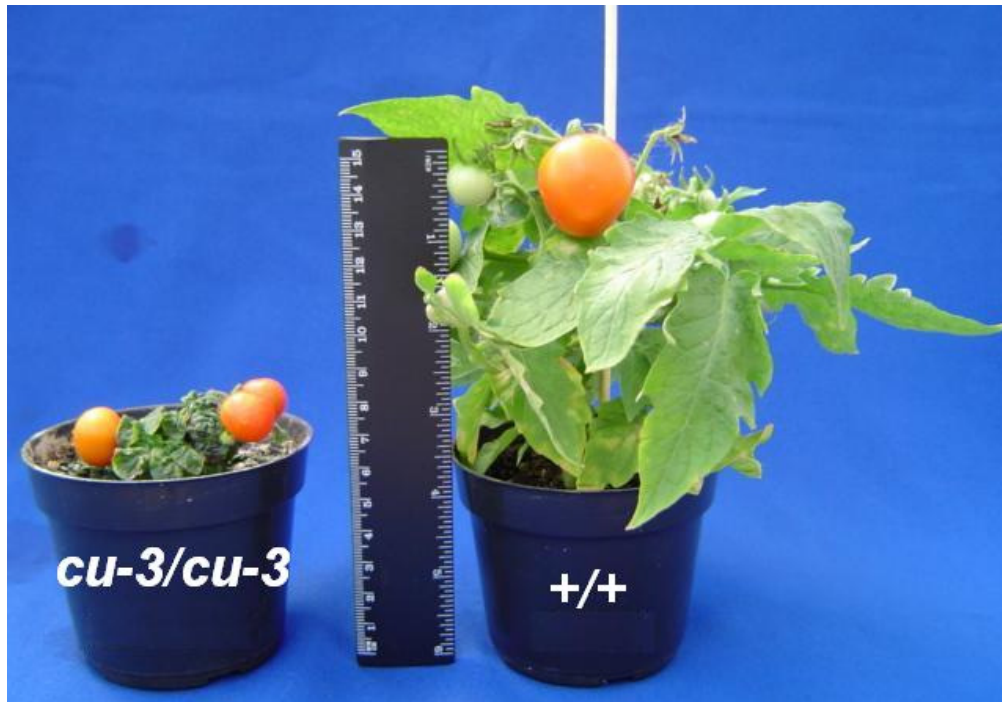
Comments:

Description of accessions available: MT-*cu3* is a BC6Fn introgressed from LA2398

Figures:



MT- *cu3* showing extreme reduction in size (this plant is 3-cm tall) and curled leaf morphology



MT- *cu3* (left) compared with Micro-Tom (right)

Bibliography:

Carvalho RF, Campos ML, Pino LE, Lombardi-Crestana SL, Zsogon A, Lima JE, Benedito VA, Peres LEP (2011) Convergence of developmental mutants into a single tomato model system: Micro-Tom as an effective toolkit for plant development research. *Plant Methods*, 7:18.

Montoya T, Nomura T, Farrar K, Kaneta T, Yokota T, Bishop GJ (2002) Cloning the tomato *Curl3* gene highlights the putative dual role of the leucine-rich repeat receptor kinase tBRI1/SR160 in plant steroid hormone and peptide hormone signaling. *Plant Cell* 14:3163–3176

Koka CV, Cerny RE, Gardner RG, Noguchi T, Fujioka S, Takatsuto S, Yoshida S, Clouse SD (2000) A putative role for the tomato genes *dumpy* and *curl-3* in brassinosteroid biosynthesis and response. *Plant Physiology* 122:85–98.