

Name: *Never ripe (Nr)*

Accessions: H9 (LA4477)

Gene ID: Solyc09g075440

Map position: chromosome 9 (Long arm)

Gene function: ethylene receptor (*LeETR3*)

Gene effect: Plants harboring the mutated allele have low ethylene sensitivity

Phenotypes: MT-*Nr* seedlings fail to show the classic triple response (shortened, swollen hypocotyl, exaggerated apical hook, and shortened root) when exposed to ethylene (e.g. 200 ppm Ethrel). Delayed senescence and abscission of petals, fruits never ripe fully.

Comments:

Description of accessions available: MT-*Nr* is a BC6Fn introgressed from LA2475

Figures:



MT-*Nr* (right) fruits are yellow and tend to be elongated.



MT-*Nr* showing delayed petal and style senescence, which remain in developed fruits. This plant is also presenting the *Uniform fruit* wild type allele responsible for the green shoulders in fruits.

Bibliography

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