

## Supplementary Material

### ***Pv*LOX2 silencing in common bean roots impairs arbuscular mycorrhiza-induced resistance without affecting symbiosis establishment**

Guadalupe A. Mora-Romero<sup>A,B</sup>, Maria A. Gonzalez-Ortiz<sup>A</sup>, Francisco Quiroz-Figueroa<sup>A</sup>, Carlos L. Calderon-Vazquez<sup>A</sup>, Sergio Medina-Godoy<sup>A</sup>, Ignacio Maldonado-Mendoza<sup>A</sup>, Analilia Arroyo-Becerra<sup>C</sup>, Anahí Perez-Torres<sup>D</sup>, Fulgencio Alatorre-Cobos<sup>D</sup>, Federico Sanchez<sup>E</sup> and Melina Lopez-Meyer<sup>A,F</sup>

<sup>A</sup>Instituto Politecnico Nacional CIIDIR-Sinaloa, Depto. Biotecnologia Agricola, Blvd. Juan de Dios Batiz Paredes 250, Guasave PO 81101, Mexico.

<sup>B</sup>Universidad de Occidente, Instituto de Investigacion en Ambiente y Salud, Los Mochis PO 81200, Mexico.

<sup>C</sup>Instituto Politecnico Nacional CIBA-Tlaxcala, Ex-Hacienda San Juan Molino Carretera Estatal Tecuexcomac-Tepetitla Km 1.5 Tlaxcala PO 90700, Mexico.

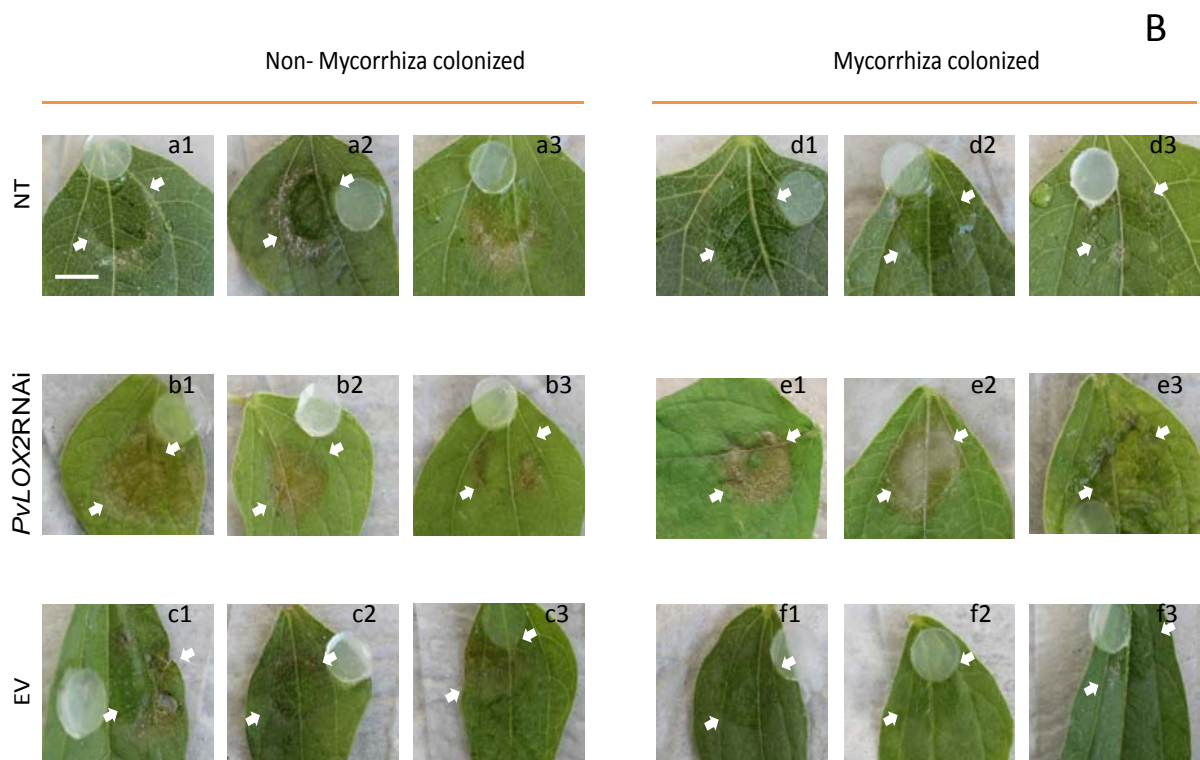
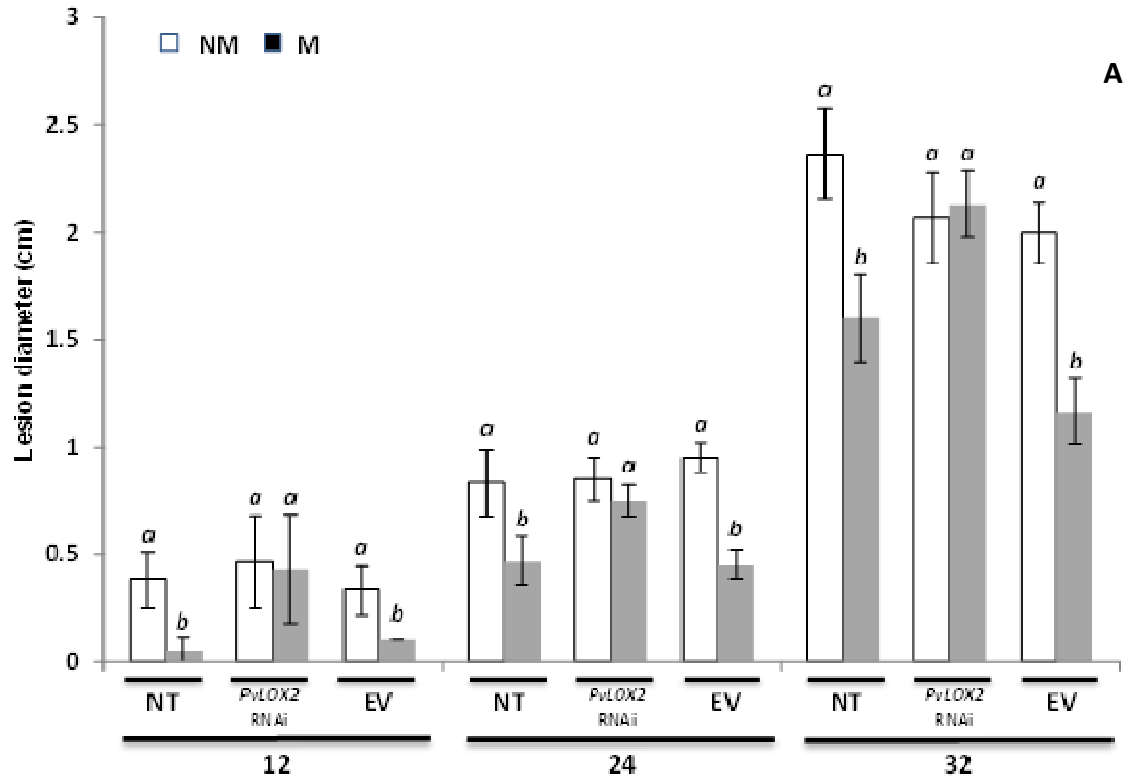
<sup>D</sup>Unidad de Genomica Avanzada (UGA) Centro de Investigacion y de Estudios Avanzados del IPN, Km. 9.6 Libramiento Norte Carretera Irapuato-Leon, Irapuato PO 36821, Mexico.

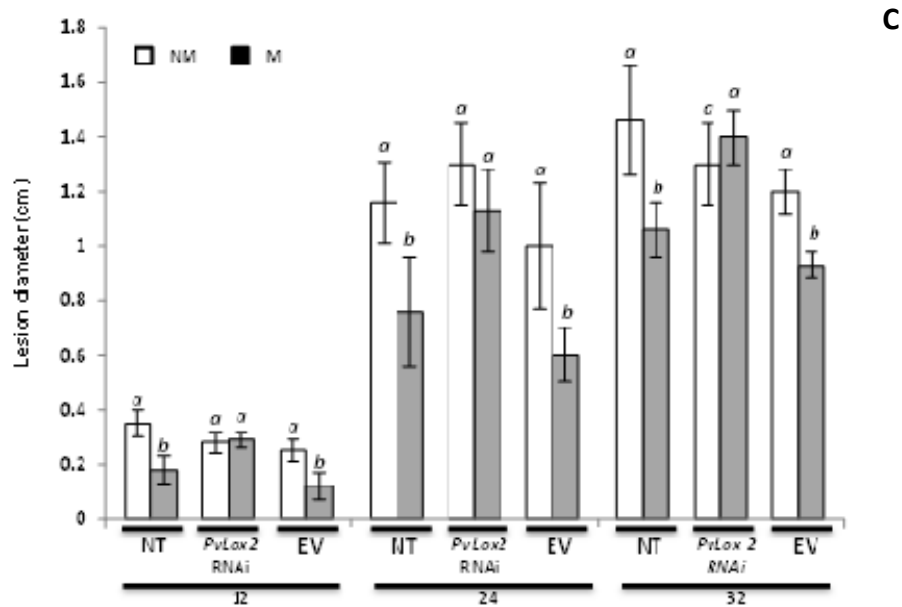
<sup>E</sup>Departamento de Biologia Molecular de Plantas, Instituto de Biotecnologia, Universidad Nacional Autonoma de Mexico, Avenuenida Universidad 2001, PO 62210, Mexico.

<sup>F</sup>Corresponding author. Email: mlopez@ipn.mx

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3001 atttaataag agtggatca ttttgtgta aaaaaaa

**Fig. S1.** *PvLOX2* sequence (accession number U76687). Primers for amplification of silencing DNA fragment are underlined, and are located in the 5' UTR (blue letters). Start codon is in red.





**Fig. S2.** *PvLOX2* silencing in roots of common bean composite plants impairs mycorrhiza induced resistance against *S. sclerotiorum* (two additional experiments). (A) Diameter of lesions (cm) caused by *S. sclerotiorum* in leaflets 12, 24 and 36 h after pathogen infection in a second independent experiment (following the experiment in Figs. 5 and 6). NM(white bars) and M (grey bars) plants were compared among the following conditions: NT, EV and *PvLOX2*RNAi silencing plants, for each time point. Data labeled ‘a’ and ‘b’ differ significantly ( $p < 0.05$ ) according to Tukey’s mean test,  $n = 4$ . Statistical comparisons were performed between M and NM conditions for each treatment. (B) Detached leaflet assay in the common bean, using the pathogen *S. sclerotiorum* in the second independent experiment. Images of three replicates per treatment taken 24 h after infection with *S. sclerotiorum* mycelium. (a1-a3) NM-NT; (b1-b3) NM-*PvLOX2*RNAi; (c1-c3) NM-EV; (d1-d3) M-NT, (e1-e3) M-*PvLOX2*RNAi, f1-f3) M-EV. Scale bars = 5 mm. White arrows indicate infection site after removal of plugs. (C) Diameter of lesions (cm) caused by *S. sclerotiorum* in leaflets 12, 24 and 36 h after pathogen infection in a third independent experiment. Error bars indicate standard deviations. Statistical analysis and labels are as in (A). No images are shown for the third independent experiment.