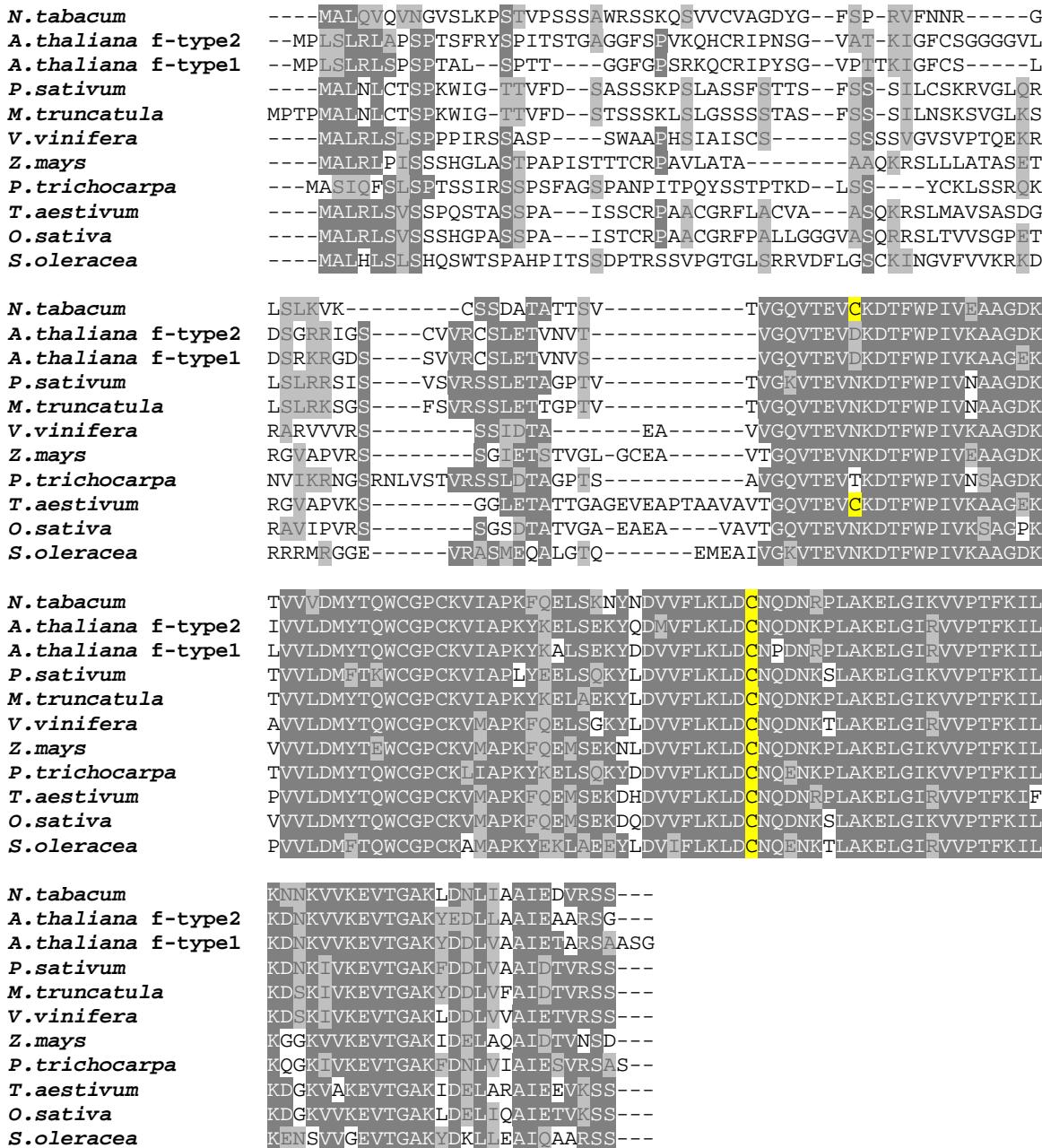
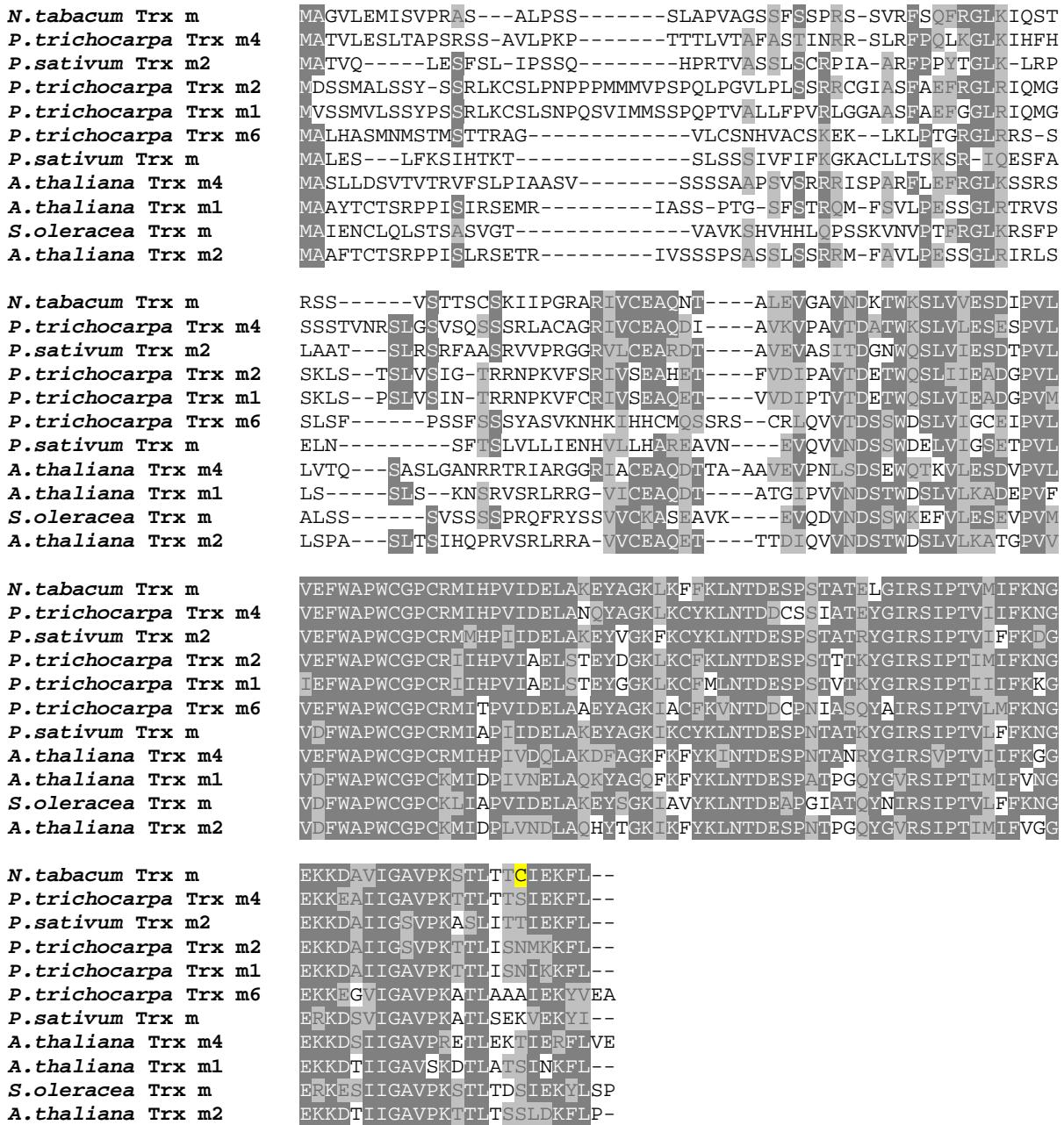


## **Chaperone-like properties of two tobacco plastid thioredoxins**

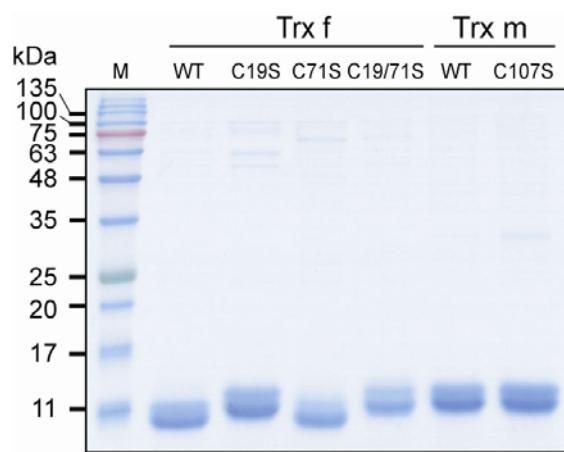
Ruth Sanz-Barrio<sup>1</sup>, Alicia Fernández-San Millán<sup>1</sup>, Jon Carballeda<sup>1</sup>, Patricia Corral-Martínez<sup>2</sup>, José M. Seguí-Simarro<sup>2</sup> and Inmaculada Farran<sup>1\*</sup>



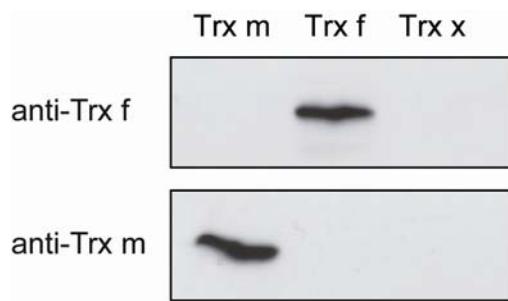
**Fig. S1.** Alignment of the amino acid sequence of tobacco Trx f with other Trx f proteins from plant sources, using the ClustalW software. Additional non-active cysteine residues are highlighted in a yellow box. The GenBank accessions are as follows: ADQ53451, NP\_197144, NP\_186922, AAC49357, ACJ83989, XP\_002277021, NP\_001150158, XP\_002325907, CBH32529, NP\_001045167, P09856, respectively.



**Fig. S2.** Alignment of the amino acid sequence of tobacco Trx m with other Trx m proteins from plant sources, using the ClustalW software. The additional non-active cysteine residue is highlighted in a yellow box. The GenBank accessions are as follows: ADQ53450, EEE97513, CAC69854, EEF00430, XP\_002330680, XP\_002328471, CAA53900, NP\_188155, NP\_849585, P07591, NP\_192261, respectively.



**Fig. S3.** SDS-PAGE analysis of purified tobacco Trx f, Trx m and mutant proteins expressed in *E. coli*. The eluates of the purified proteins obtained from the soluble fraction of *E. coli* BLR (DE3) transformed with the corresponding pET-Trx construct were loaded onto SDS-PAGE (13% acrylamide) gels and stained with Coomassie Brilliant Blue R-250. His-tagged proteins were purified by Ni-NTA affinity chromatography. M, protein marker.



**Fig. S4.** Cross-reactivity of anti-Trx f and anti-Trx m antibodies. 250 ng of purified Trx were loaded onto 13% SDS-PAGE gels. Blots were detected using anti-Trx f or anti-Trx m as indicated. Trx f, tobacco Trx f; Trx m, tobacco Trx m; Trx x, *Arabidopsis* Trx x.