**Supplementary Information:**

**Supplementary Movie 1:** Animation of the PIN2 model, with the transmembrane domains in surface representation and the disordered loop as a ribbon, showing the location of the two cysteines, colored in pink. The movie was rendered with POV-Ray (Persistence of Vision™ Raytracer, Persistence of Vision Pty. Ltd. 2004;  [http://www.povray.org](http://www.povray.org/)).

**Supplementary File 1:** .pdb file, displaying the PIN2 model described in this manuscript