

Supplemental Fig. S1 Multiple sequence alignment and structural features of 14 CePIPs. Sequence alignment was performed using MUSCLE. Transmembrane helices (TM1–TM6) and the two half helices forming the two NPAs (HB and HE) (shaded), NPA motifs (shown in red), ar/R filter residues (shown in green), and six Froger's positions (shown in blue) are indicated. The highly conserved cysteine residues in LA are shown in gold, whereas the residues at the position corresponding to H¹⁹³ in SoPIP2;1 (PDB accession number 1Z98) are shown in brown. The residues at the position corresponding to S⁹⁶, S¹¹⁵, S¹⁸⁸, S²⁷⁴, and S²⁷⁶ in SoPIP2;1 are highlighted in bright green, whereas the residues at the position corresponding to L¹⁹⁷ in SoPIP2;1 are underlined. (Abbreviations: Ce: C. esculentus; HB: half helix in loop B; HE: half helix in loop E; So: S. oleracea; PIP: plasma membrane intrinsic protein; TM: transmembrane helix)