



**Additional Figure 3 Detailed phylogenetic tree of plant NRT1/PTRs.** Clustering of 52 Arabidopsis, 81 rice, 1 *Brassica napus*, 1 *Alnus glutinosa* and 52 barley sequences (accounting for 46 unique sequences). To support the tree, barley full-length sequences from H35 and publications were included. Barley sequences are written in violet, functionally characterised transporters in dark green (see Additional Table 2).