

S2 Table: Logos and list of accession numbers for protein sequences used to generate Fig. 2D.

AQP*	Logo†	Reference/accession numbers
TIP2s		Anderberg et al. (32)
TIP4s		Anderberg et al. (32)
TIP6s		Anderberg et al. (32)
TIP3s		Anderberg et al. (32)
TIP1s		Anderberg et al. (32)
AQP8s		<i>Homo sapiens</i> NP_001160.2, <i>Rattus norvegicus</i> NP_062031.1, <i>Gallus gallus</i> XP_414866.2, <i>Xenopus tropicalis</i> NP_001107728.1, <i>Danio rerio</i> NP_001004661.1
PIPs		Anderberg et al. (32)
AQP1,2,5,6s		<i>Homo sapiens</i> AAH22486.1, NP_000477.1, NP_001642.1, AAB41566.1, <i>Rattus norvegicus</i> NP_036910.1, NP_037041.2, NP_036911.1, NP_071517.1, <i>Gallus gallus</i> NP_001034542.1, XP_428855.4, XP_001231781.2, <i>Xenopus tropicalis</i> NP_001005829.1, NP_001015749.1, XP_002935789.1, <i>Anguilla japonica</i> BAC82109.1
AQP0s		<i>Homo sapiens</i> NP_036196.1, <i>Bos taurus</i> NP_776362.1, <i>Ovis aries</i> NP_001153230.1, <i>Gallus gallus</i> NP_989597.1, <i>Xenopus laevis</i> NP_001088304.1, <i>Danio rerio</i> NP_001018356.1
AQP4s		<i>Homo sapiens</i> NP_001641.1, <i>Rattus norvegicus</i> NP_036957.1, <i>Ovis aries</i> NP_001009279.1, <i>Gallus gallus</i> NP_001004765.1, <i>Anolis carolinensis</i> XP_003219692.1, <i>Strongylocentrotus purpuratus</i> XP_799266.2

*Subgroup or subfamily of AQPs. †Logos of residues at H2^P, LC^P, H5^P, LE^P and HE^P created by WebLogo3.3 (33). Character height is proportional to information content (bits) and colors reflect hydrophobicity. Only amino acid residues conserved in at least 50% of the sequences in the group are shown in Fig. 2D.