



S5 Figure. Predicted targeting of the PTP1B tail anchor in yeast based on its hydrophathy.

A library of previously identified C-terminal tail-anchor-containing proteins in yeast is displayed based on the list of Burri & Lithgow⁵⁵ (with additional inclusion of Gem1⁵⁷ in the mitochondria panel) along with the list of 56 GPI-anchored proteins given in Ast et al.⁵⁸, which were removed from the list of Burri & Lithgow due to their GPI anchorage. The hydrophathies of the C termini of these proteins are displayed based on the Kyte-Doolittle method⁵⁶ (boxcar smoothing of $n=7$), with all protein sequences centered at the amino acid position corresponding to peak hydrophathy. The hydrophathy profile of the PTP1B tail anchor is shown in all figures (black). In the bottom right panel, the hydrophathy profiles of canonical tail anchor proteins from yeast (Fis1, Ysy6, Sec22, Gas1) and from mammalian cells (Bcl2, CytB5, Sec61 β , VAMP-1B) are shown, as well as the high hydrophathy tail isoform PTP1B^{N412I} (N412I, which has not been shifted to its maximum hydrophathy, but is instead in register with the PTP1B tail).