



**Figure S2: Protein localization profile**

(A) Sub-cellular localization data from *S. cerevisiae* was clustered into six distinct localization patterns: "nucleus", "mitochondria", "cytoplasm", "nucleus & cytoplasm", "ER", and "cell periphery & ambiguous". Each row represents a protein, with each column representing a particular sub-cellular localization. Cluster 2 ("cell periphery & ambiguous") includes proteins localized to a variety of organelles such as the nuclear pore, vacuoles, and microtubules. (B) iPAGE (<http://tavazoelab.princeton.edu/iPAGE/>) enrichment analysis of clustered localization data. Columns correspond to clusters in panel A and to columns in Figure 3.