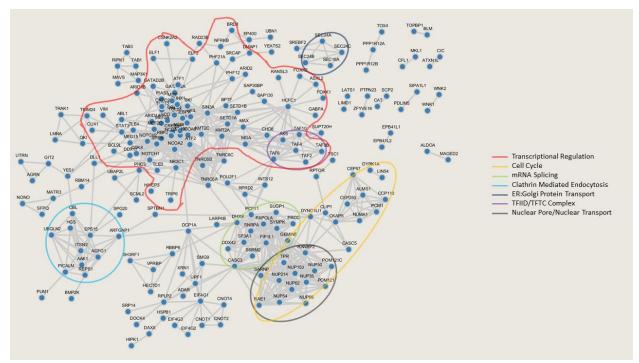


Supplementary Figure S1. Annotated EThcD spectrum of O-GalNAc modified peptide from Erlin-2. The fragments  $c_{14}$  and  $z_5$  localize the HexNAc moiety to threonine 336. Ions with a glycan loss are represented with an \*.



Supplementary Figure S2. O-GlcNAc modified protein network analysis using Cytoscape and stringApp. Proteins with at least one connection are shown.