

S6 Fig. The human ZP proteins Oit3 and DMBT1 lack key tyrosine residues

Alignment of ZPn domains based on Monne et al., 2008 [41] and Gill et al., 2016 [52]. Grey shading corresponds to known beta-strands in ZP3, blue indicates conserved cysteines and yellow indicates conserved aromatic residues. Like LET-653, Oit3 lacks the conserved aromatic residue in the F strand between Cys3 and Cys4, and DMBT1 lacks the second conserved aromatic residue after Cys4. These two residues interact in the ZP3-N crystal structure [41] and are thought to be critical for ZPn polymerization. Genbank accession numbers: Ce\_LET-653b: NP\_001021337; Ce\_DYF-7: NP\_509630; Dm\_Dpy: NP\_001245875; Hs\_UMOD: NP\_003352 ; Hs\_TectA: NP\_005413; Hs\_ZP3: NP\_001103824; Hs\_DMBT1: NP\_004397; Hs\_Oit3: NP\_689848; Hs\_Eng: NP\_001108225.