

Supporting Information

S1 Table. List of substrates encompassing β TrCP1 phosphodegron motif. 344 candidate hits having 80% identity with the DSGXXS consensus motif are enlisted with their corresponding UniProt IDs, gene names and peptide sequences.

S2 Table. H-bonding pattern of β TrCP1 interactions with ARID1A, CDH6 and PCDH7 at different time intervals. H-bond is represented by “:”, β TrCP1 (bold) and phosphopeptides (unbold).

S1 Fig. Gene ontology analysis of the identified β TrCP1 substrates. Gene ontology analysis of substrates was performed by PANTHER program. Out of 344 identified proteins, 343 were assigned with 9 molecular functions (A), 12 Biological process (B) and 37 Pathways (C).

S2 Fig. Rg plots of individual simulated complexes along the course of 10 ns of MD simulations. (A) Unbound β TrCP1 (B) β TrCP1-ARID1A, (C) β TrCP1-CDH6 and (D) β TrCP1-PCDH7.