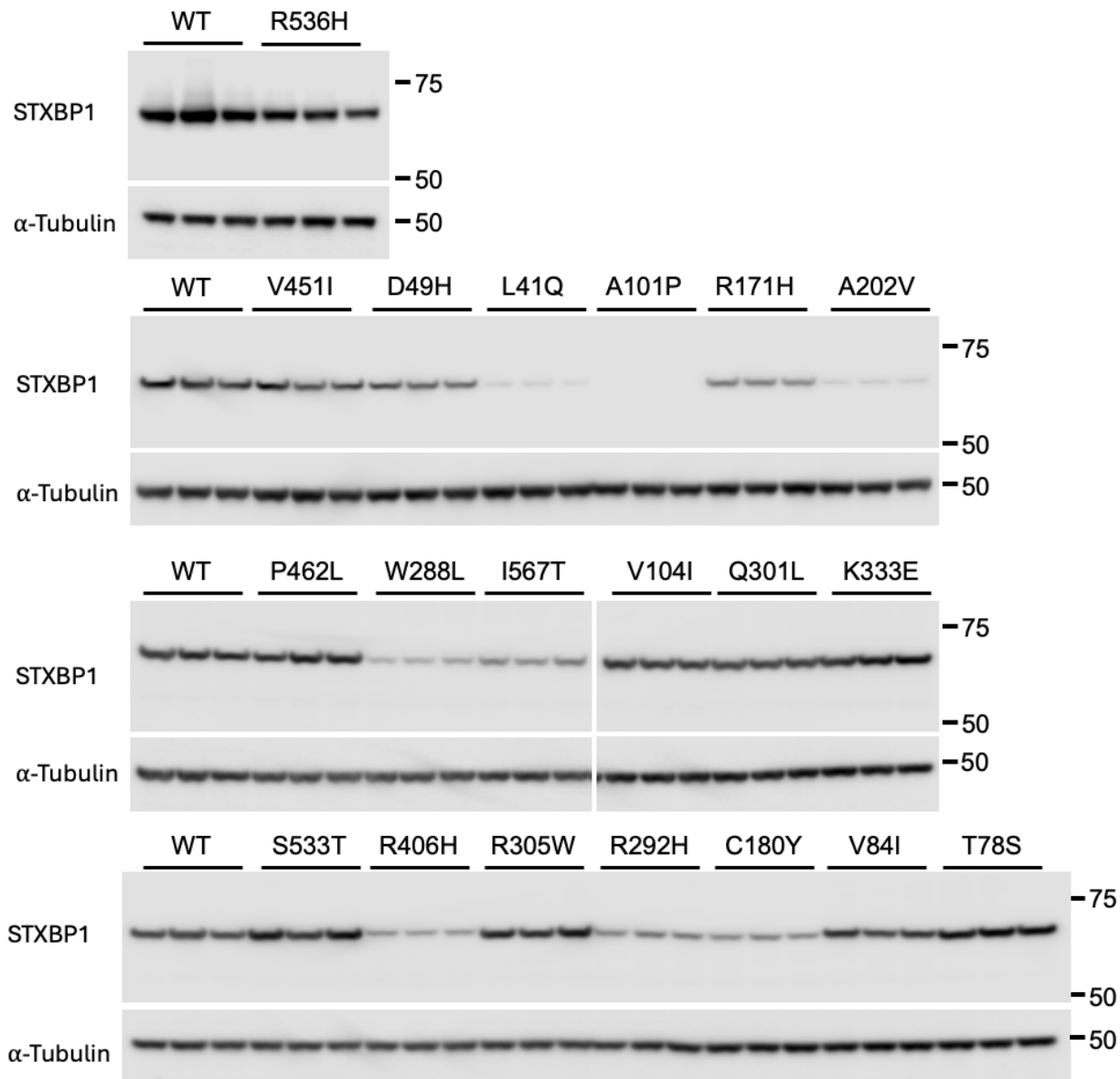


Unedited western blots

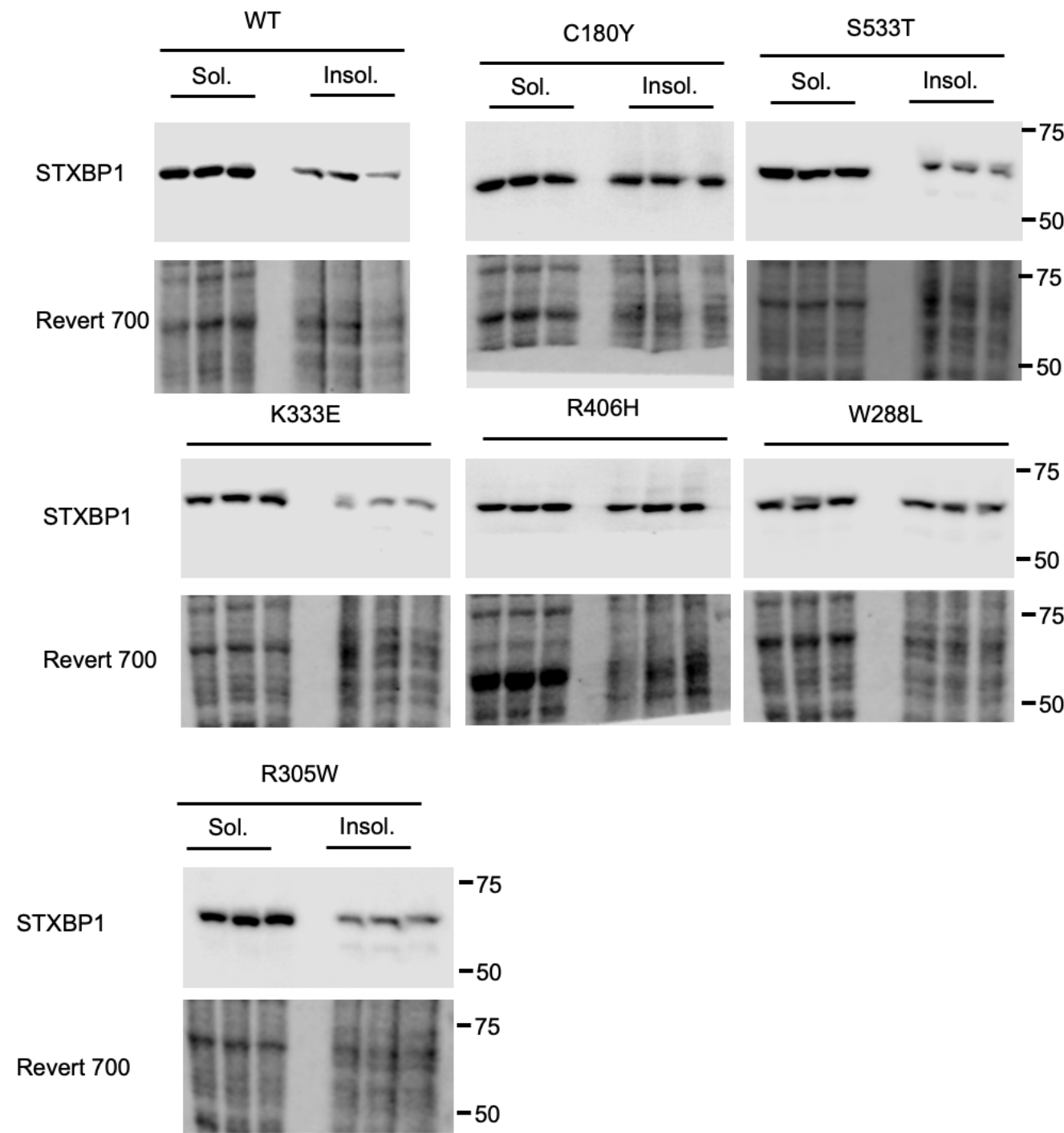
Set 1: Functional characterization assay for STXBP1: protein abundance assay.

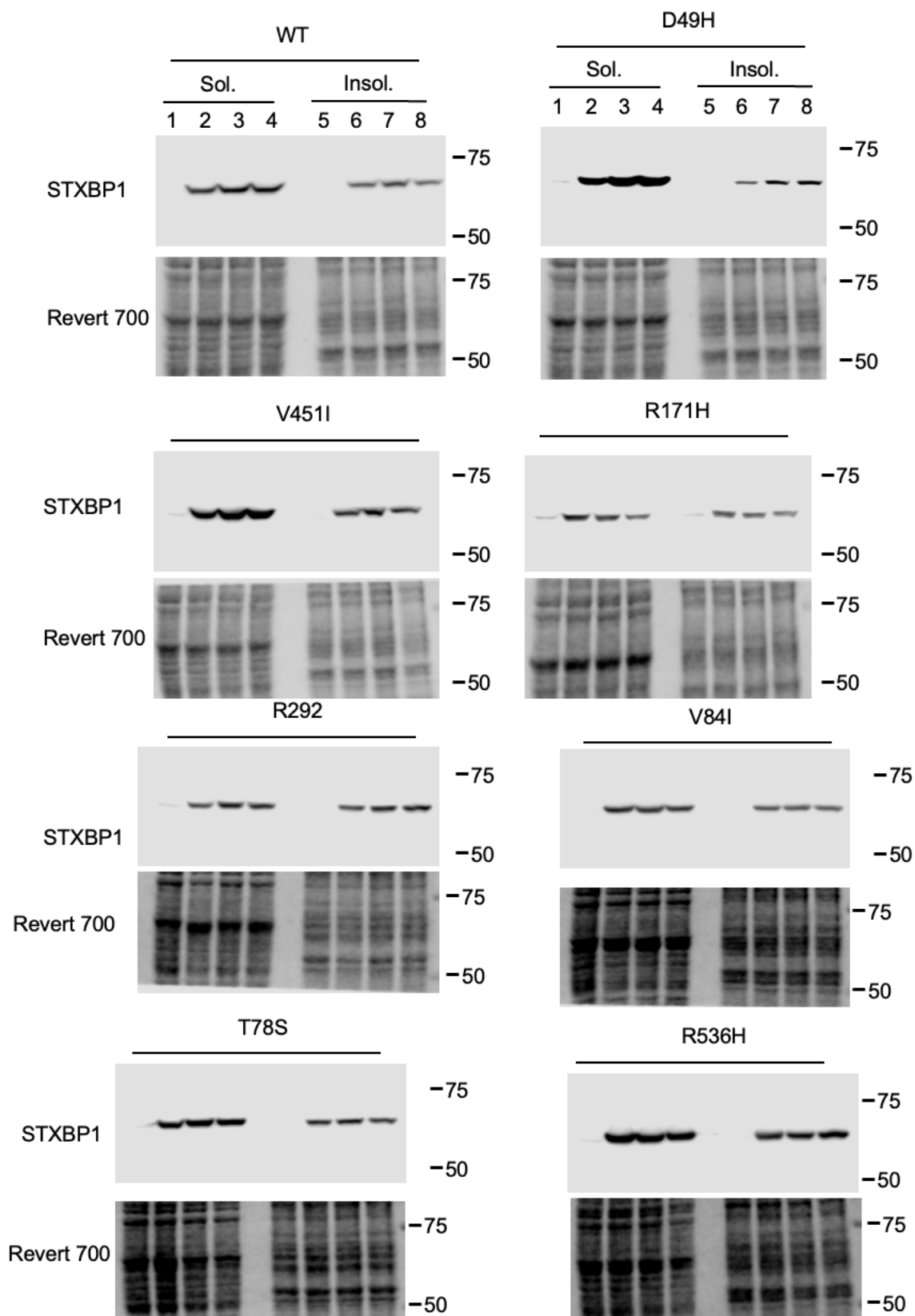
Cells were transfected with equal amounts of either WT or variant expression plasmids, and STXBP1 abundance was measured with an anti-STXBP1 antibody.

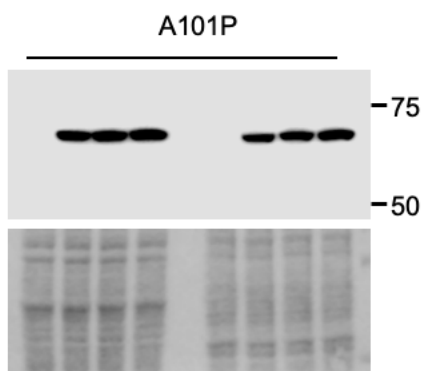
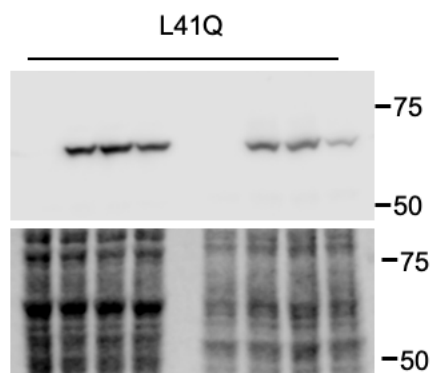
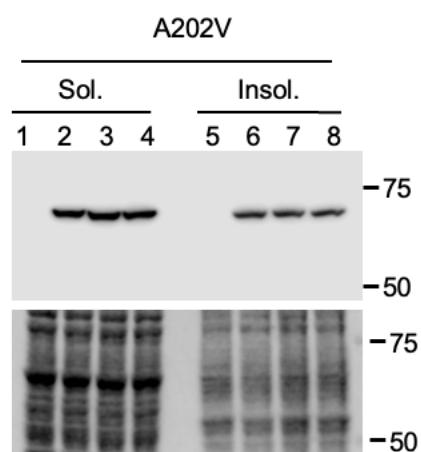
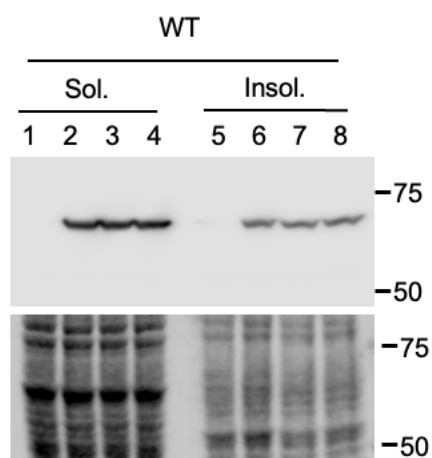
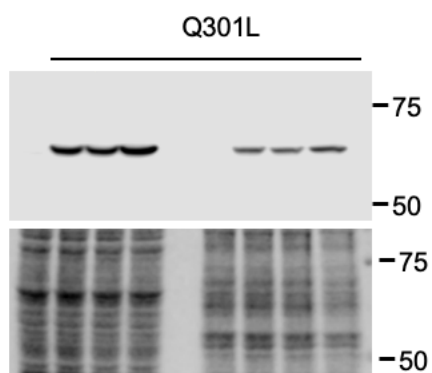
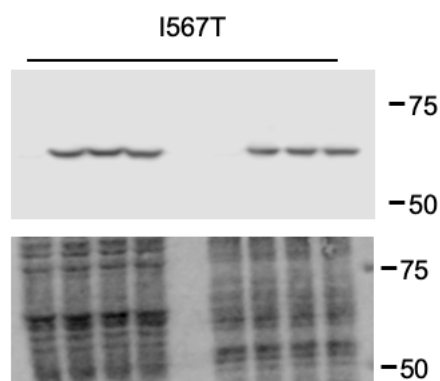
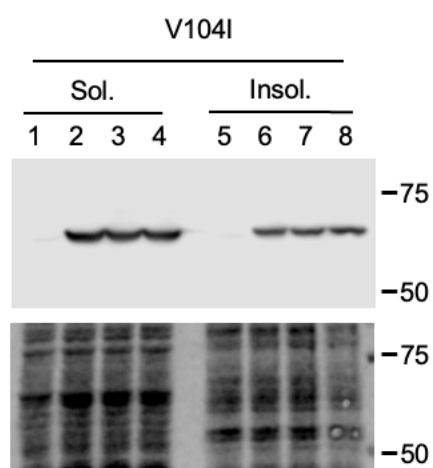
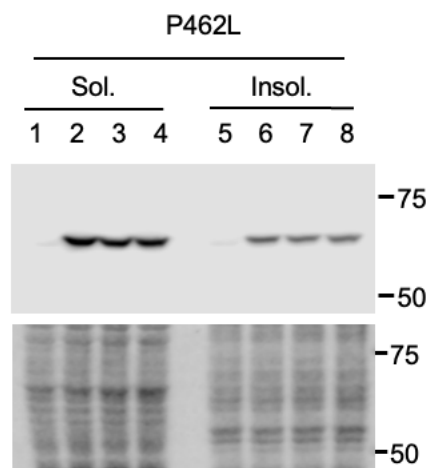


Set 2: Functional characterization assay for STXBP1: protein solubility assay.

Cells were transfected with equal amounts of either WT or variant expression plasmids, and insoluble and soluble fractions were collected. STXBP1 abundance was measured in each fraction. Revert 700 reagent was utilized to confirm loading of protein.

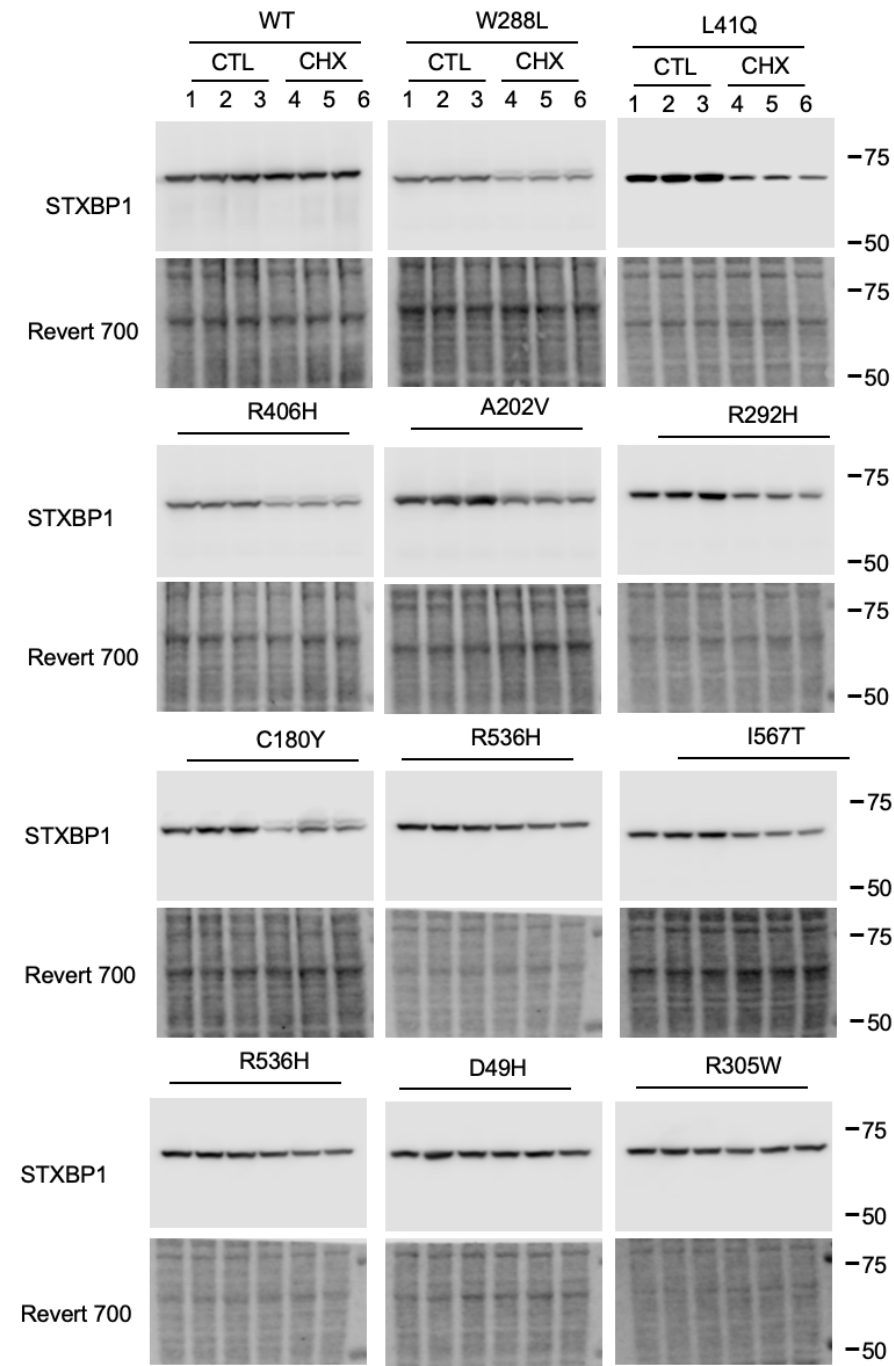


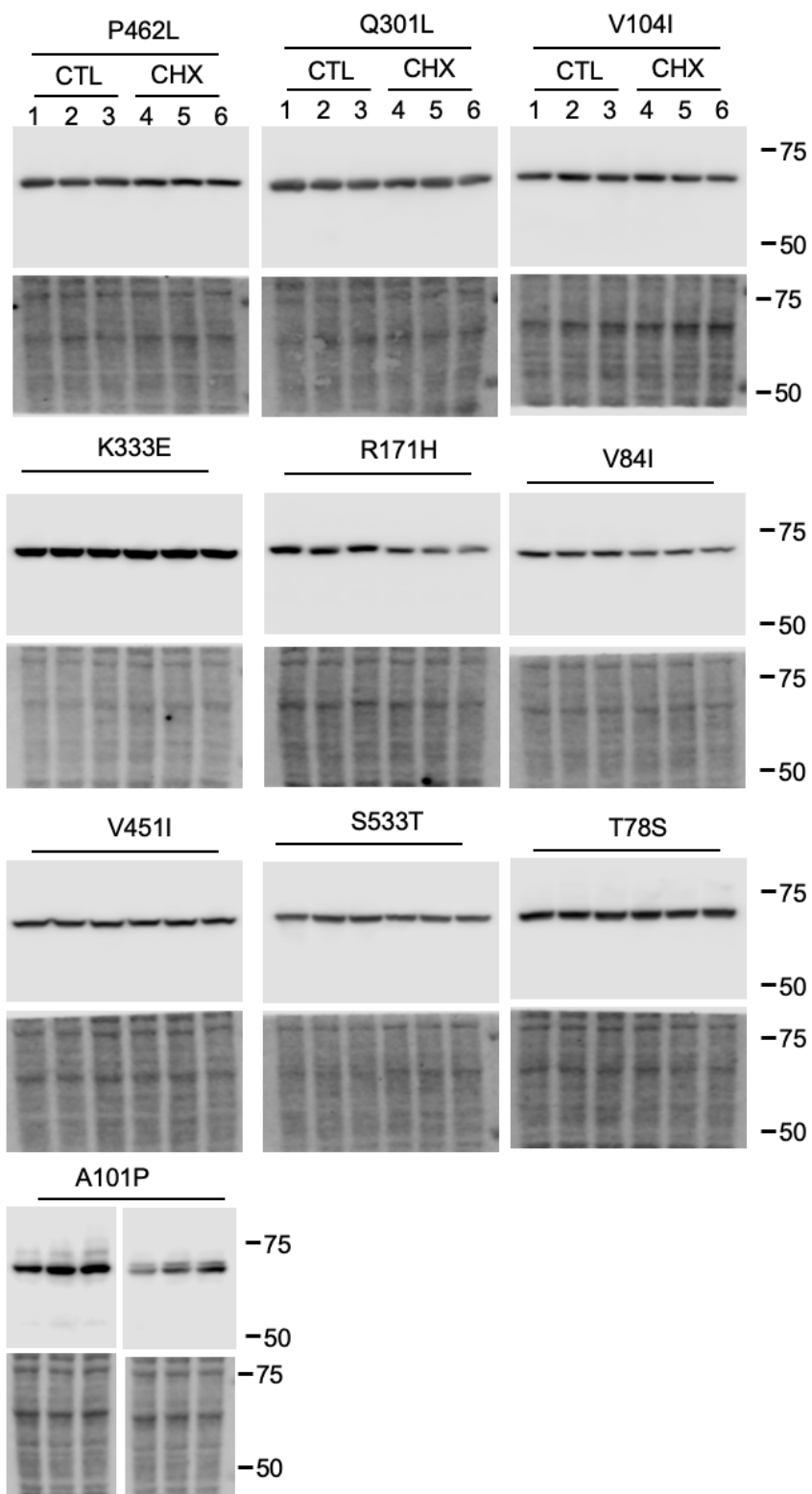




Set 3: Functional characterization assay for STXBP1: protein stability assay.

Cells were transfected with equal amounts of either WT or variant expression plasmids. Cells were treated with either vehicle (DMSO) or cycloheximide (CHX) for 8 hrs prior to collection of total cell lysate, and STXBP1 abundance was measured in each treatment condition. Revert 700 reagent was utilized to confirm loading of protein.





Set 4 Functional characterization assay for STXBP1 interaction with STX1.

TRE-T-SNARE cells in 6xwell plates were transfected with different amounts of STXBP1 plasmid DNA to ensure a similar protein expression. Additionally, cells were co-transfected with equal amounts of an STX1 expression plasmid. Interaction was assessed by immunoprecipitation (IP) of STXBP1 followed by immunoblotting (IB) for S TX1.

