



**Supplementary Fig. 1** Western blot analysis of wild type and L34P variant CaSR examined under non-reducing and reducing conditions. HEK293 cells were transfected with wild type or variant CaSR-FLAG-tagged plasmid, incubated for 48 hr and the cells then lysed and 80  $\mu$ g of protein with or without reducing agent separated by SDS-PAGE. The gel was blotted then probed with mouse monoclonal antibody to FLAG-tag followed by goat anti-mouse HRP-conjugated secondary antibody. Protein bands were visualized using ECL chemiluminescence reagent in a Bio-Rad Molecular Imager. \*An additional lane is a duplicate of lane 3, WT under reducing ( $\beta$ -mercaptoethanol) conditions.