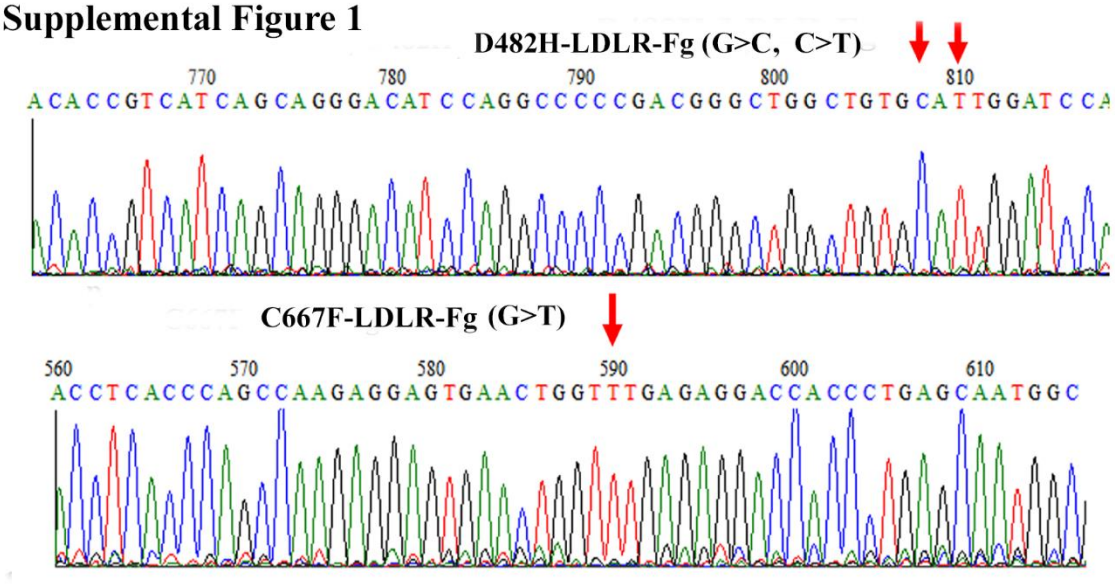
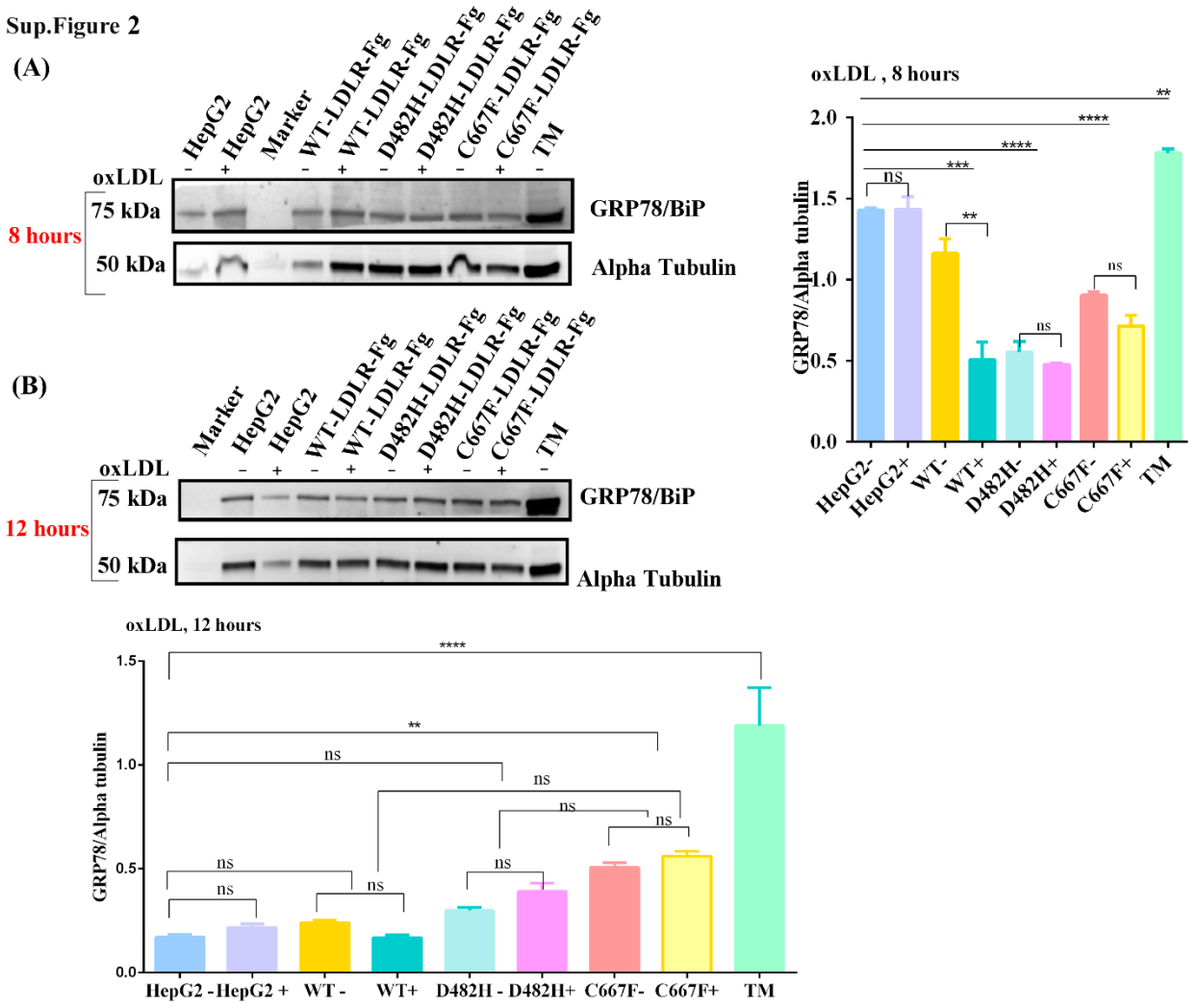
Supplemental Figure 1



Supplemental Figure 1- Sanger sequencing to confirm site-directed mutagenesis of FLAG-tagged WT-LDLR. The red arrows on the chromatograms indicate the location of the nucleotides substituted to generate the open reading frames of the ER-retained, missense variants of LDLR- p.D482H-LDLR (top) and p.C667F-LDLR (bottom).



Supplemental Figure 2(A-B)-BiP expression in oxLDL treated cells at early time points. Western blots depicting GRP78/BiP expression in HepG2 cells overexpressing empty vector, WT/variants of LDLR treated with 100 µg per ml of oxLDL at (1A) 8 hours and (1B) 12 hours. Bar diagrams denoting Alpha-tubulin normalized BiP expression at these time points are represented as mean +SD. 2-way ANOVA using Turkey's post hoc test was used to compare the corresponding treated (+) *versus* non-treated (-) conditions for each HepG2 cell type, wherein $p<0.05$=* or #, $p<0.01$=**, $p<0.001$=***, $p<0.0001$=****, is represented for the comparisons between non-transduced HepG2 control cells (HepG2-) versus non-treated or treated $HepG2^{WT\text{-}LDLR}$, $HepG2^{D482H\text{-}LDLR}$, and $HepG2^{C667F\text{-}LDLR}$. $P<0.05$ =# when the treated cells were compared with the respective non-treated cell types. ns=not significant, n=3 replicates.