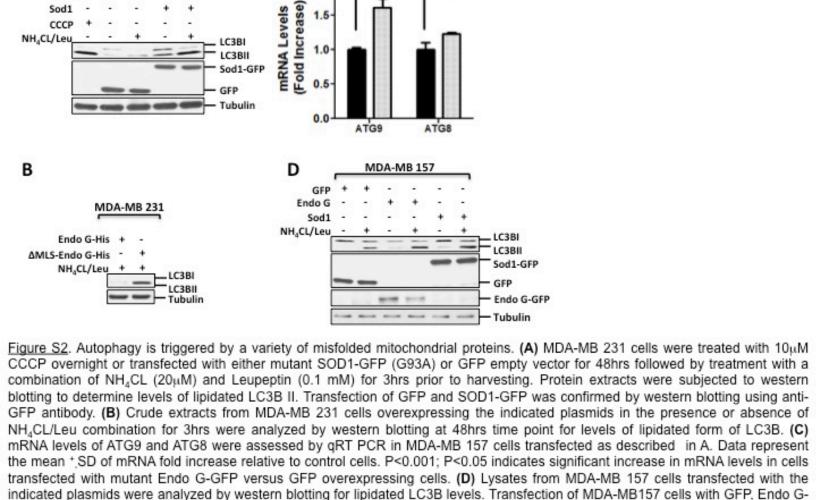


Figure S1. ERα-negative breast cancer cells fail to activate AKT and the outcomes of the ERα- arm of the UPR^{mt} in response to proteotoxic stress. (A) Phosphorylation of AKT (Ser473) was evaluated in a panel of ERα-positive cell lines transiently transfected with the indicated plasmids. Levels of the endogenous AKT as well as the exogenous Endo G and GFP were tested by western blotting using anti-AKT and GFP antibody, respectively. (B) Cellular crude extracts from a panel of ERα-negative cell lines transfected as indicated were examined as described in A. (C) Proteosomal trypsin-like activities were assayed in cells overexpressing either the control GFP or mutant EndoG–GFP as described in the Materials and Methods section. (D) Transcript levels of OMI were evaluated by qRT PCR in MDA-MB 231 cells transfected with the indicated plasmids for 24hrs. Data represent the mean *SD of mRNA in transfected cells relative to control cells. Omi levels were detected by western blotting.

Supplementary Figure 1



MDA-MB 157

p<0.001

C

Α

MDA-MB 231

GFP and SOD1-GFP was confirmed as described in A.

Endo G