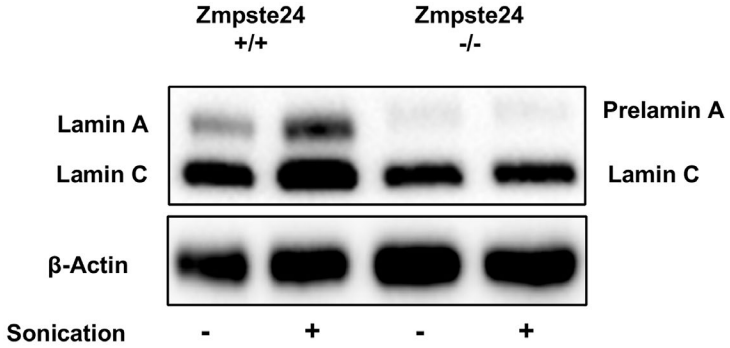
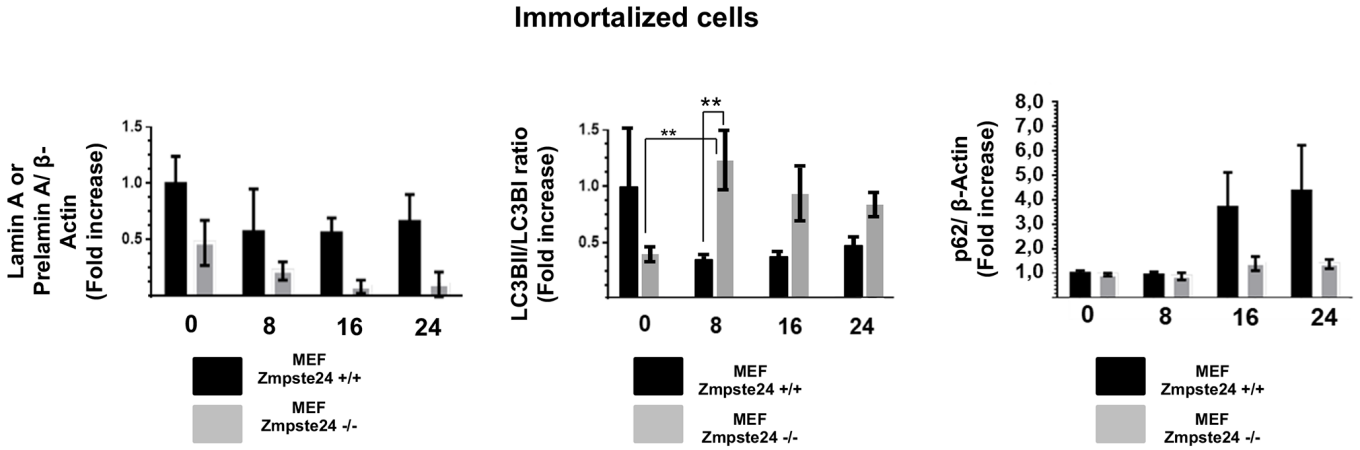
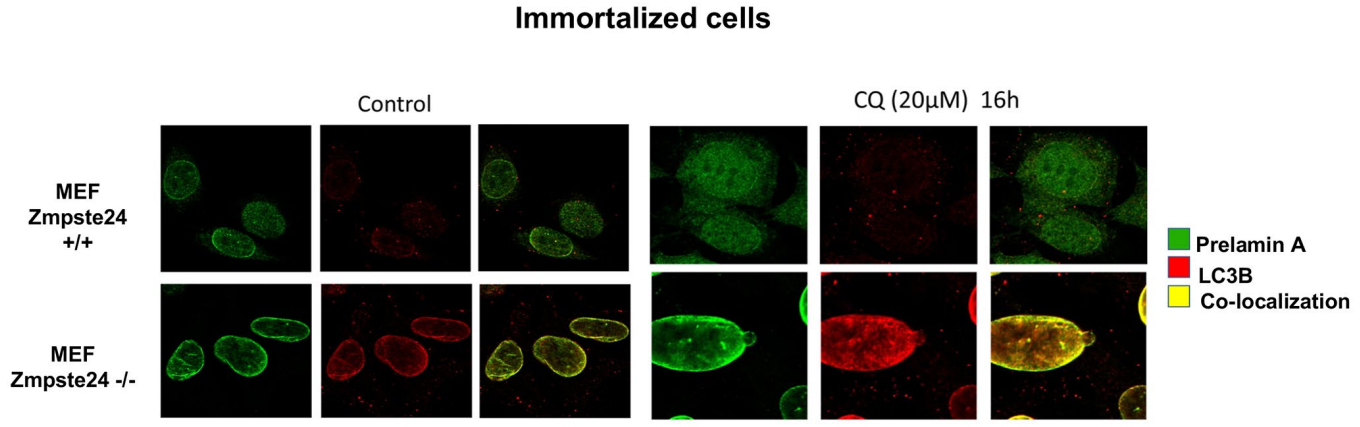
SUPPLEMENTARY FIGURES



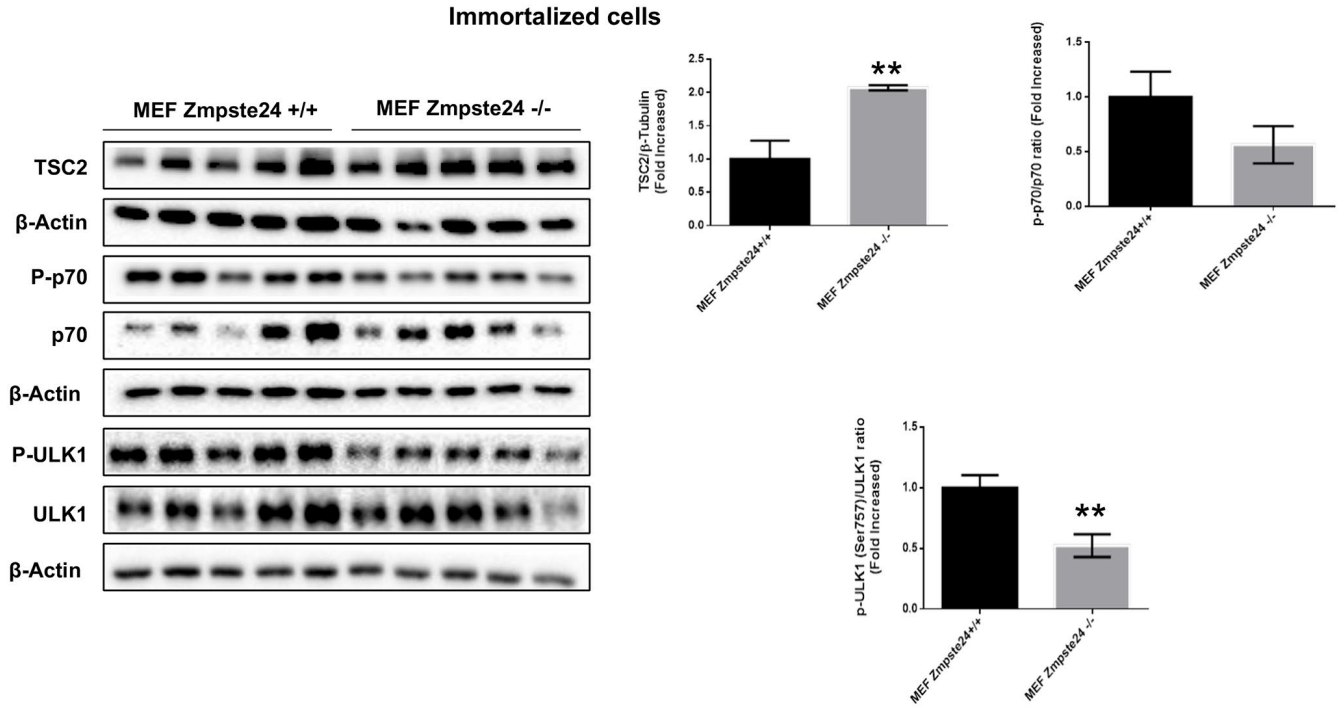
Supplementary Figure 1. Immunoblot analysis of Lamin A (in MEF Zmpste24 WT cells) and prelamin A (in MEF Zmpste24 KO cells) after sonication of cell extracts, using β-actin as loading control (*n* = 1).



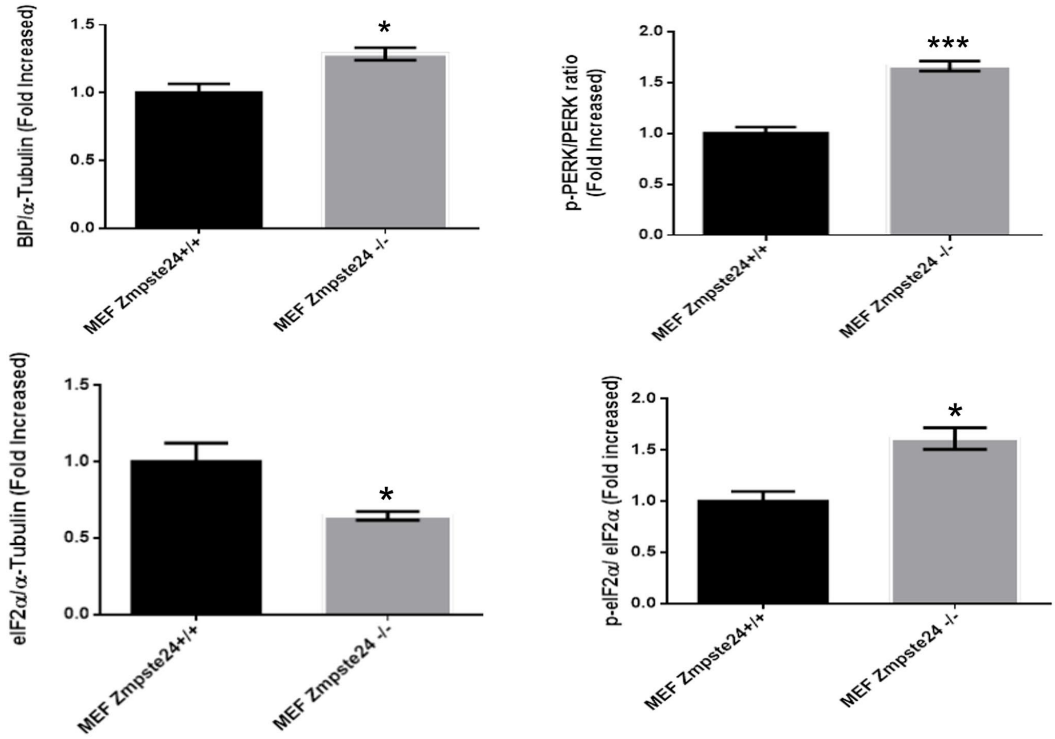
Supplementary Figure 2. Quantification data of Lamin A or prelamin A/β-actin ratio, p62/β-actin ratio and LC3B II/LC3B I ratio in the cell extracts treated with CQ (20 µM) during 0, 8, 16 and 24 hours (*n* = 5). Data represent the mean ± standard error of the mean (SEM). Differences were determined by Dunnett's multiple comparisons test. $^{**}p < 0{,}01$ (*n* = 5).



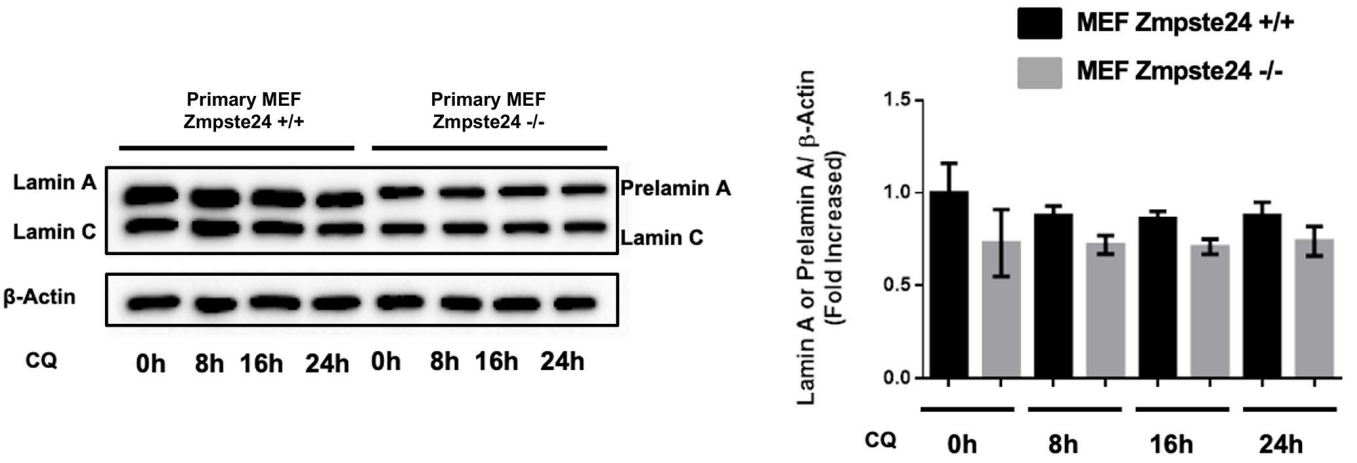
Supplementary Figure 3. Immunofluorescence of MEF Zmpste24 WT and KO cells under basal state and treated with CQ (20 µM) during 16 hours using both an LC3B II/I antibody and a prelamin A antibody to see the co-localization signal.



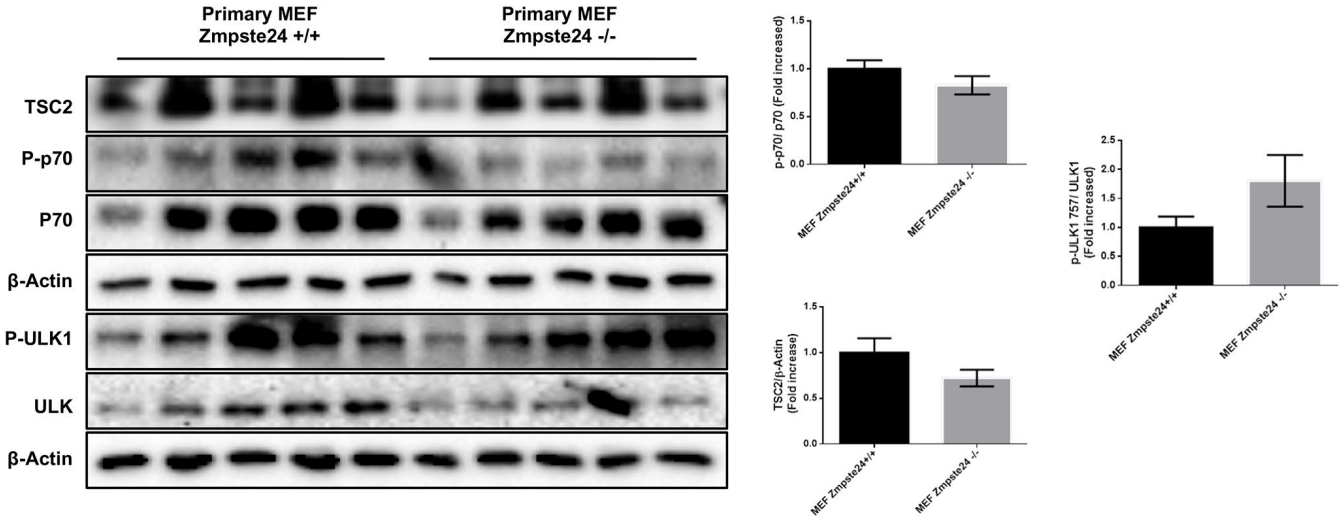
Supplementary Figure 4. mTORC1 pathway. Immunoblot analysis in immortalized MEF Zmpste24 WT and KO cells of TSC2, p-p70/p70 ratio, p-ULK-1/ULK ratio using β actin as loading control, in the cell extracts in basal state (n = 5). Quantification data of TSC2/β-actin, P-p70/p70 ratio, P-ULK-1/ULK ratio in basal state (n = 5). Data represent the mean ± standard error of the mean (SEM). Differences were determined by unpaired Student t-test analysis. $^{**}p < 0{,}01$ (n = 5).



Supplementary Figure 5. Quantification and statistical analysis of BIP/Tubulin; phospho-PERK/PERK; phospho-eIF2-alpha/eIF2-alpha and eIF2-alpha/Tubulin. Data represent the mean ± standard error of the mean (SEM). Differences were determined by unpaired Student t-test analysis.



Supplementary Figure 6. Immunoblot analysis of Lamin A (in Primary MEF Zmpste24 WT cells) and prelamin A (in Primary MEF Zmpste24 KO cells), using β actin as loading control, in the cell extracts treated with CQ (20 μM) during 0, 8, 16 and 24 hours (*n* = 5). The plot indicates the quantification data of Lamin A or prelamin A/β-actin ratio in the cell extracts treated with CQ (20 μM) during 0, 8, 16 and 24 hours (*n* = 5). Data represent the mean ± standard error of the mean (SEM). Differences were determined by Dunnett's multiple comparisons test.



Supplementary Figure 7. mTORC1 pathway. Immunoblot analysis in Primary MEF Zmpste24 WT and KO cells of TSC2, p-p70/p70 ratio, p-ULK/ULK ratio using β-actin as loading control, in the cell extracts in basal state (*n* = 5). Quantification data of TSC2/β-actin, P-p70/p70 ratio, P-ULK/ULK ratio in basal state (*n* = 5). Data represent the mean ± standard error of the mean (SEM). Differences were determined by unpaired Student *t*-test analysis.