

Figure S1 Representative images of γ H2AX staining of H_2O_2 -treated cells in Figure 1B. Cells as indicated were treated with 150 μ M H_2O_2 for 1 hour, recovered for 2 hours, and immunofluorescence stained with γ H2AX antibody. 293T and KO represent HEK 293T *hMYH*^{+/+} and *hMYH*^{-/-} cells, respectively. Cells were co-stained with DAPI and cells transfected with GFP plasmid were detected with GFP fluorescence.

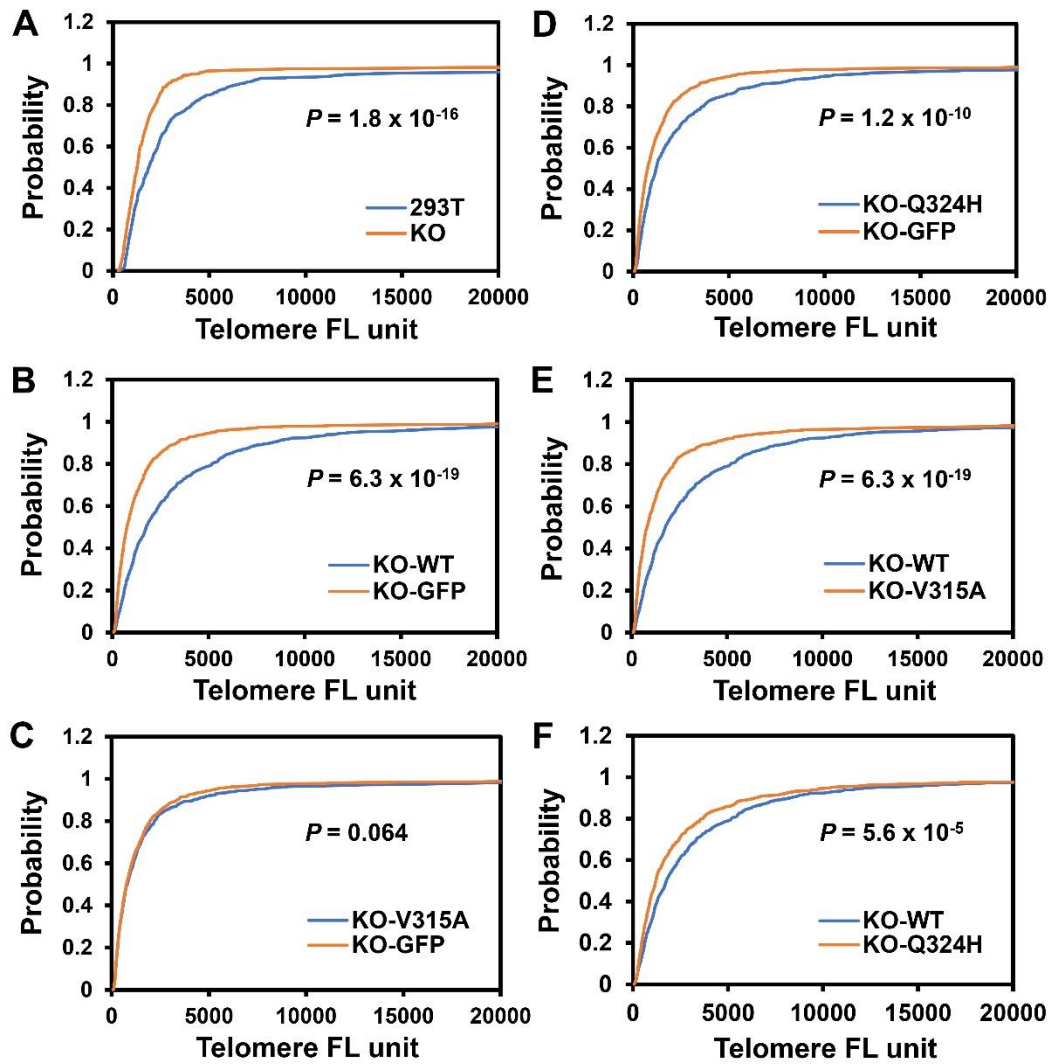


Figure S2 The cumulative distribution plots derived from the histograms of (A)-(F) in Figure 3 in the text were shown. Significance between each pair was determined at 95% confidence interval. 293T WT and KO represent HEK 293T *hMYH*^{+/+} and *hMYH*^{-/-} cells, respectively. GFP (KO-GFP), GFP-MYHWT(KO-WT), GFP-MYHV315A(KO-V315A), and GFP-MYHQ324H (KO-Q324H) were stably expressed in *hMYHKO* cells.