



S3 Fig. The L244S mutation completely inactivates ANKH as determined by following extracellular PPI (**A**) and citrate release (**B**) in culture medium by an independent HEK293 clone (B1) that stably overproduces ANKH^{L244S}. Concentrations of PPI and citrate were determined in 24-hour medium samples of parental HEK293 cells, HEK293 cells stably overproducing ANKH^{wt} (clone C3) and HEK293 cells overproducing ANKH^{L244S} (clone B1). Statistical significance was determined by ANOVA with Tukey correction. *** $p < 0.001$; **** $p < 0.0001$, ANKH^{wt} C3 vs parental.