

FIGURE S6

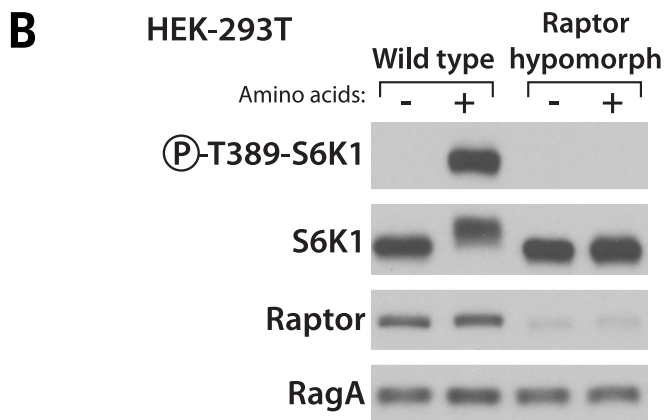
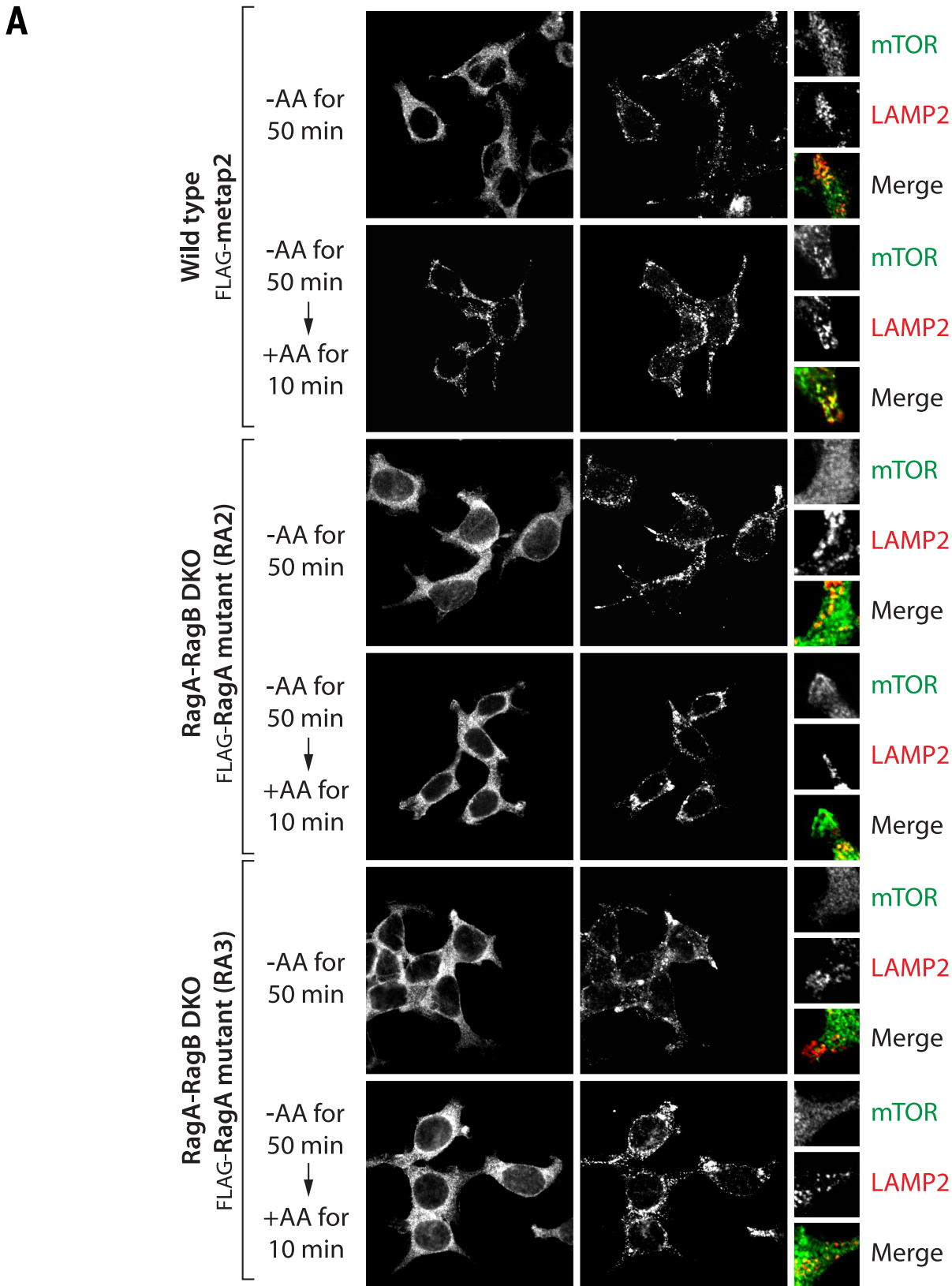


Fig. S6. (A) In cells lacking RagA and RagB, expression of the other two RagA mutants deficient in binding to Raptor, RA2 and RA3 (Fig. 2D), do not rescue the amino acid-induced co-localization of mTOR with lysosomes, as marked by the lysosomal protein LAMP2.

(B) The hypomorphic Raptor cell line generated with CRISPR-Cas9 gene editing shows a partial reduction in Raptor expression and sharp decrease in phospho-S6K1 signaling. Genomic DNA sequencing reveals that this cell line has no wild-type Raptor sequences but rather mutations in exon 13, which encodes a part of Raptor responsible for the recruitment of the mTORC1 substrates S6K1 and 4EBP1 (31). See methods for more details. the supercomplex on the lysosomal surface (44 nm radius).