Insufficient endo-lysosomal Lat2 protein in thyroid glands of Ctsk<sup>−/−</sup>/Mct8<sup>−/−</sup>/Mct10<sup>−/−</sup> mice causes:

1. Reduced amino acid transport across endo-lysosomal membranes
2. Induction of autophagy-mediated lysosomal biogenesis
3. Impaired thyroid hormone export to blood circulation worsens self-thyrotoxicity-triggered autophagy