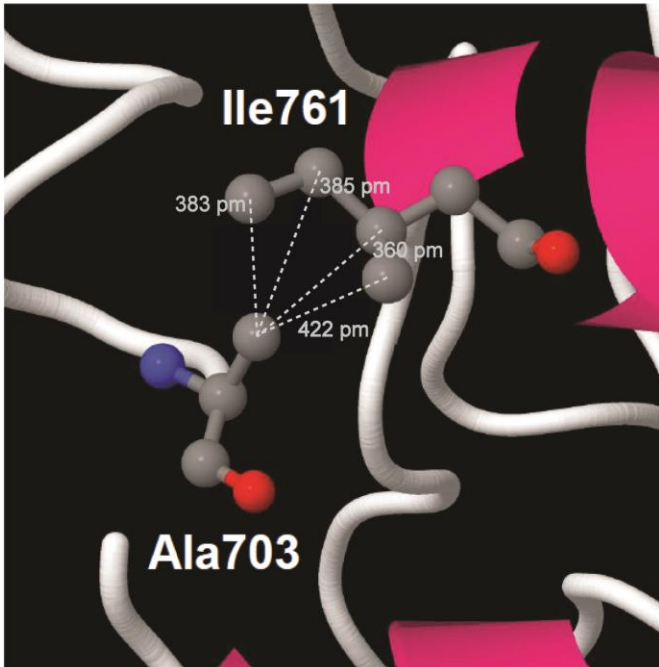
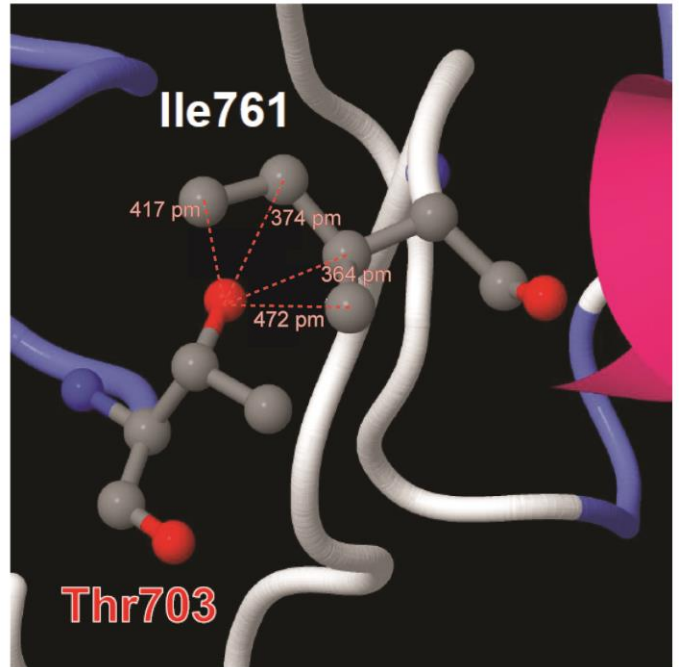


A

wildtype

B

mutation

Supplementary Figure S4. The hs. *SLC4A2* mutation c.503T>C, p.Ile168Thr may affect a hydrophobic interaction in *SLC4A2*.

The hs. *SLC4A2* mutation was modeled on the crystal structure of its human *SLC4A1* paralog (Arakawa T Science 350:680-4, 2015).²² Ala400 in *SLC4A1* corresponds to Ala703 in *SLC4A2*, and faces the hydrophobic amino acid Ile761. The mutation p.Ala703Thr introduces a polar, hydrophilic amino acid with a longer side chain and may interfere with the hydrophobic interaction.