

Supplemental material

Bartoccioni et al., <https://doi.org/10.1085/jgp.201812195>

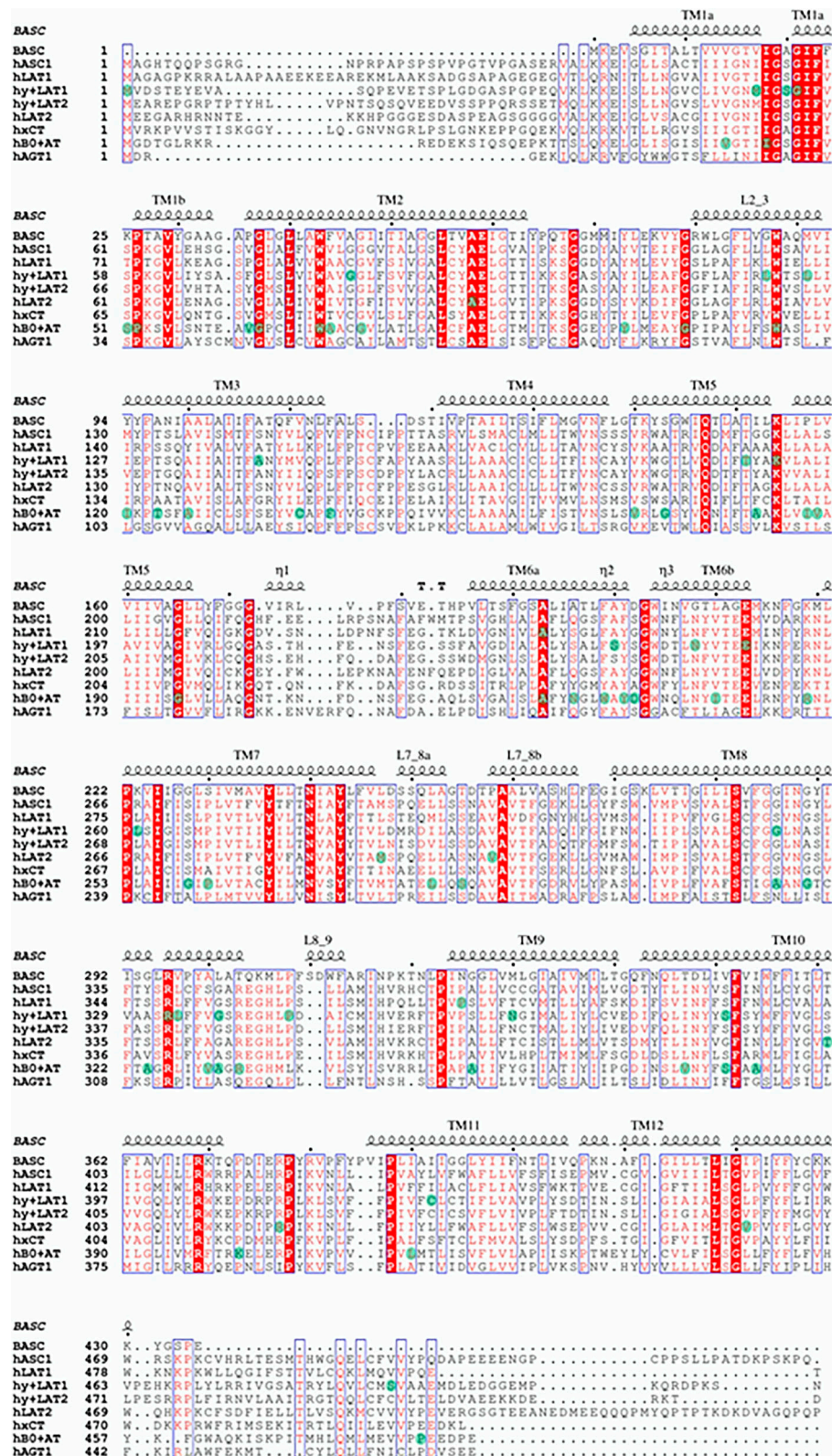


Figure S1. **BasC sequence alignment with human LATs.** Multi sequence alignment was done with PSI/TM-Coffee server (Floden et al., 2016). Mutated residues associated with autism (LAT1), age-related hearing loss (LAT2), cystinuria (b^{0+} AT), and LPI (y^+ LAT1) are shown in green circles.

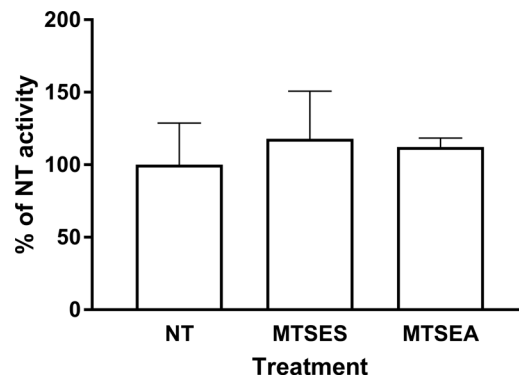


Figure S2. **Effect of cysteine-modifying reagents on L-serine/L-alanine exchange in cysless BasC PLs.** $10\ \mu\text{M}$ $[^3\text{H}]$ L-serine ($0.5\ \mu\text{Ci}/\text{data point}$) influx ($\text{pmol}/\mu\text{g protein} \cdot \text{s}$) experiments in cysless BasC-GFP-PLs, treated with $1\ \text{mM}$ MTSES for 15 min or $5\ \text{mM}$ MTSEA for 30 min. Transport was expressed as the percentage of the transport in BasC-PLs containing $4\ \text{mM}$ L-alanine and nontreated. Data are from three experiments with three replicates per condition.

Reference

Floden, E.W., P.D. Tommaso, M. Chatzou, C. Magis, C. Notredame, and J.M. Chang. 2016. PSI/TM-Coffee: a web server for fast and accurate multiple sequence alignments of regular and transmembrane proteins using homology extension on reduced databases. *Nucleic Acids Res.* 44(W1):W339–W343. <https://doi.org/10.1093/nar/gkw300>