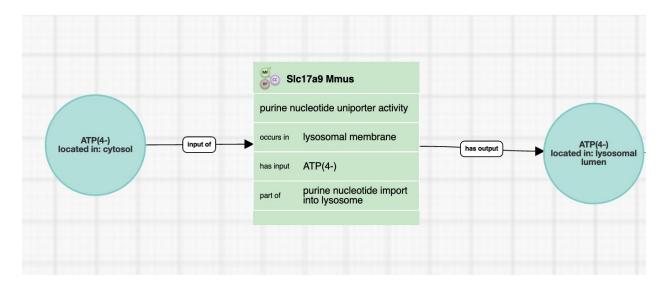
Guidelines for annotating transporter activity

Pathway Editor

The activity unit for a transmembrane transporter is:

- MF: 'enables' a child of transmembrane transporter activity GO:0022857
- Context:
 - The movement of the small molecule substrate is represented by:
 - small molecule (ChEBI) + '<u>input of</u>' + the start location of the small molecule, captured with the relation '<u>located in'</u>
 - the transporter activity + 'has output' the small molecule (ChEBI) + the end location of the small molecule, captured with the relation 'located in'
 - o **BP** 'part of' the BP in which this transporter activity participates
 - CC 'occurs in' a child of membrane (GO:0016020), e. g.: lysosomal membrane (GO:0005765).

Example: SLC17A9 transports ATP to the lysosomal lumen

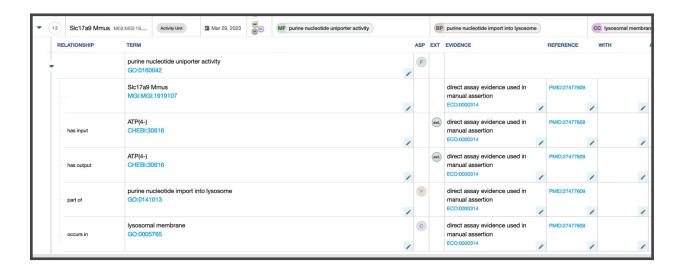


Form Editor

The activity unit for a <u>transmembrane transporter</u> is:

- **MF**: a child of transmembrane transporter activity <u>GO:0022857</u>
- **Context:** The movement of the small molecule substrate is represented by:
 - 'has input' the small molecule (ChEBI)
 - o **BP** 'part of' the BP in which this transporter activity participates
 - CC 'occurs in' a child of membrane (GO:0016020), e. g.: lysosomal membrane (GO:0005765)

Example: SLC17A9 transports ATP to the lysosomal lumen



Differences between GO-CAM and standard annotation of a transmembrane transporter activity

In standard annotation (captured with the Noctua Form or Protein2GO), the localization of the molecule is not captured; neither is the output of the transporter, since that output relates to the localization of the molecule transported.

Review information

Review date: 2023-07-20

Reviewed by: Cristina Casals, Pascale Gaudet, Patrick Masson