

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Primer pairs used for PCR assay in the study

File Name: Supplementary Data 2

Description: Table representing normalized peak intensities, fold change, p-value and VIP score for all the detected features in untargeted profiling of *Slc29a3*^{-/-} plasma samples. List of differential metabolites detected in the plasma from *Slc29a3*^{+/+} and *Slc29a3*^{-/-} mice (12 weeks age) based on a p-value < 0.05 using a one-sided t-test and a fold-change > 2.0. The m/z and ionization mode (positive ([M+H]⁺) or negative ([M-H]⁻)) are mentioned for all the detected metabolites. In addition to the fold change, the log₂-fold change, p-value, -log₁₀ (p) and VIP score for each compound are indicated. The chemically annotated metabolites have been categorized according to their superclass—i.e., lipids ; amino and organic acids; carbohydrates; nucleosides, nucleotides, and analogues; organoheterocyclic compounds and benzenoids.

File Name: Supplementary Data 3

Description: Table representing normalized peak intensities, fold change, p-value and VIP score for all the detected features in untargeted profiling of *Slc29A3*^{-/-} urine samples. List of differential metabolites detected in the urine from *Slc29a3*^{+/+} and *Slc29a3*^{-/-} mice (12 weeks age) based on a p-value < 0.05 calculated using a one-sided t-test and a fold-change > 2.0. The m/z and ionization mode (positive ([M+H]⁺) or negative ([M-H]⁻)) are mentioned for all the detected metabolites. In addition to the fold change, the log₂-fold change, p-value, -log₁₀ (p) and VIP score for each compound are indicated. The chemically annotated metabolites have been categorized according to their superclass—i.e., lipids ; amino and organic acids; carbohydrates; nucleosides, nucleotides, and analogues; organoheterocyclic compounds and benzenoids.