

## High-throughput characterization of photocrosslinker-bearing ion channel variants to map residues critical for function and pharmacology

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### This data set contains:

- DNA sequences of hASIC1a variants used in the publication ('02\_hASIC1a and variants.pdf')
- Excel and Prism files containing the data shown in the publication (3 .xlsx files, 26 .pzfx files)
- Example current traces for hASIC1a variants assessed in the APC screen ('04\_Compiled example current traces....pdf') and a summary of the incorporation rates as depicted in Figure 2E in the manuscript ('08\_Figure 2E incorporation summary table.pdf')
- Raw images of the Western Blots shown in the manuscript and SI ('13\_Figure 5 and S12 original Western blots.pdf', '31\_Original Western blots for Figures S5\_S6.pdf')

All files are numbered and referred to in the corresponding Figure and Table legends throughout the manuscript and supplementary information.

### Accessing the Prism files:

A free trial version for Prism GraphPad is available under the following link.

<https://www.graphpad.com/demos/>

Each prism file contains the data tables of the read-outs from electrophysiological recordings described in the main text of the manuscript. Variants assessed in the initial APC screen are grouped according to their position in the channel and named after the figure they support for better overview (files named 'Figure S2 N-terminus E6-P15.pzfx' etc). Procedures to normalize the data and the statistical tests used are stated in the method section of the manuscript.

For further questions on the data, please contact the corresponding author Stephan A. Pless (stephan.pless@sund.ku.dk).