

## **Description of Additional Supplementary Files**

File Name: Supplementary Movie 1

Description: Representative open field videos of a C57BL/6 control mouse.

File Name: Supplementary Movie 2

Description: Representative open field video of an uninjected Tmc1 $\Delta/\Delta$ ;Tmc2 $\Delta/\Delta$  mouse.

File Name: Supplementary Movie 3

Description: Representative open field video of a Tmc1 $\Delta/\Delta$ ;Tmc2 $\Delta/\Delta$  mouse injected with sAAV-Tmc1.