

File Name: Supplementary Movie 1

Description: The movie shows ciliary beating of primary ependymal cells isolated from wild-type mice. Cells were cultured for 14 days, and ciliary motility was recorded by high-speed video microscopy at 12 ms intervals.

File Name: Supplementary Movie 2

Description: The movie shows ciliary beating of primary ependymal cells isolated from *Cfap100* knockout mice. Cells were cultured for 14 days, and ciliary motility was recorded by high-speed video microscopy at 12 ms intervals.