Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Trpm5-/- mice display prolonged latency of the righting reflex compared to

controls.

File Name: Supplementary Movie 2

Description: Trpm5^{-/-} mice (P12) display a decreased swimming performance compared to

controls.

File Name: Supplementary Movie 3

Description: Trpm5-ShRNA mice (P11) display strong deficits in the postural tone of hindlimbs

compared to control-ShRNA.

File Name: Supplementary Movie 4

Description: Trpm5-ShRNA mice (P10) display strong deficits in the righting reflex compared

to control-ShRNA.

File Name: Supplementary Movie 5

Description: Trpm5-ShRNA mice (P12) display a decreased swimming performance compared

to control-ShRNA.