

Description of Additional Supplementary Files

File name: Supplementary Movie 1

Description: Adult *Pcp2^{+/+};Kir2.1* mouse successfully performs the 12 mm flat beam task.

File name: Supplementary Movie 2

Description: Adult *Pcp2^{cre/+};Kir2.1* mouse shows impaired motor coordination in the 12 mm flat beam task.

File name: Supplementary Movie 3

Description: Adult *Pcp2^{cre/+};Kir2.1* mouse shows impaired performance on the accelerating rotarod compared with *Pcp2^{+/+};Kir2.1* controls.

File name: Supplementary Movie 4

Description: Adult *Pcp2^{+/+};Kir2.1* mouse successfully performs the LocoMouse test.

File name: Supplementary Movie 5

Description: Adult *Pcp2^{cre/+};Kir2.1* mouse shows impaired interlimb coordination in the LocoMouse test.