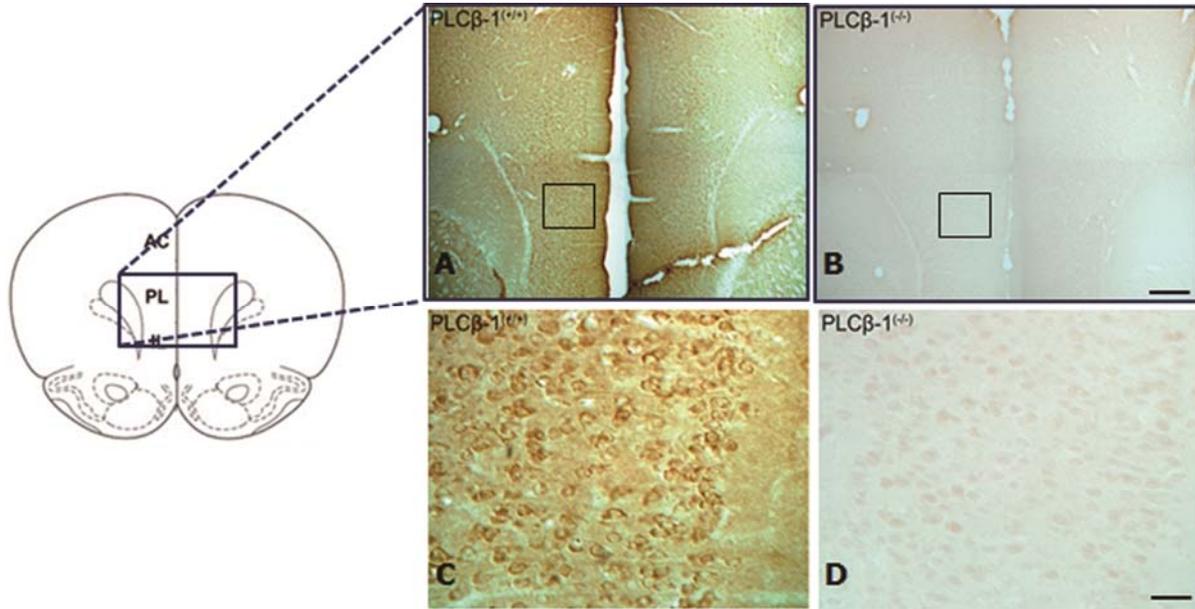


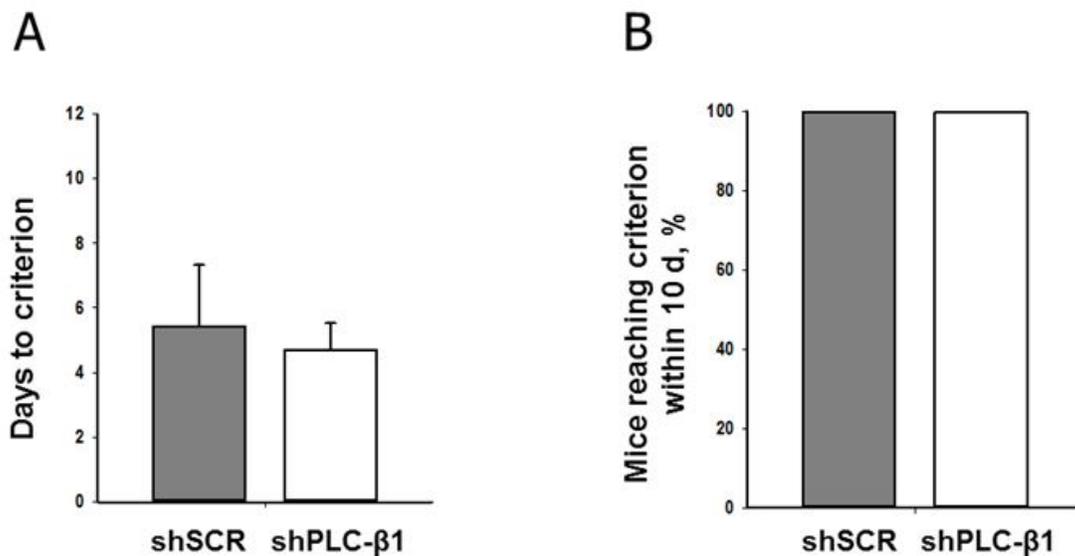
**Appendix 1** to Kim S-W, Seo M, Kim D-S, et al. Knockdown of phospholipase C- $\beta$ 1 in the medial prefrontal cortex of male mice impairs working memory among multiple schizophrenia endophenotypes. *J Psychiatry Neurosci* 2014.

DOI: 10.1503/jpn.130285

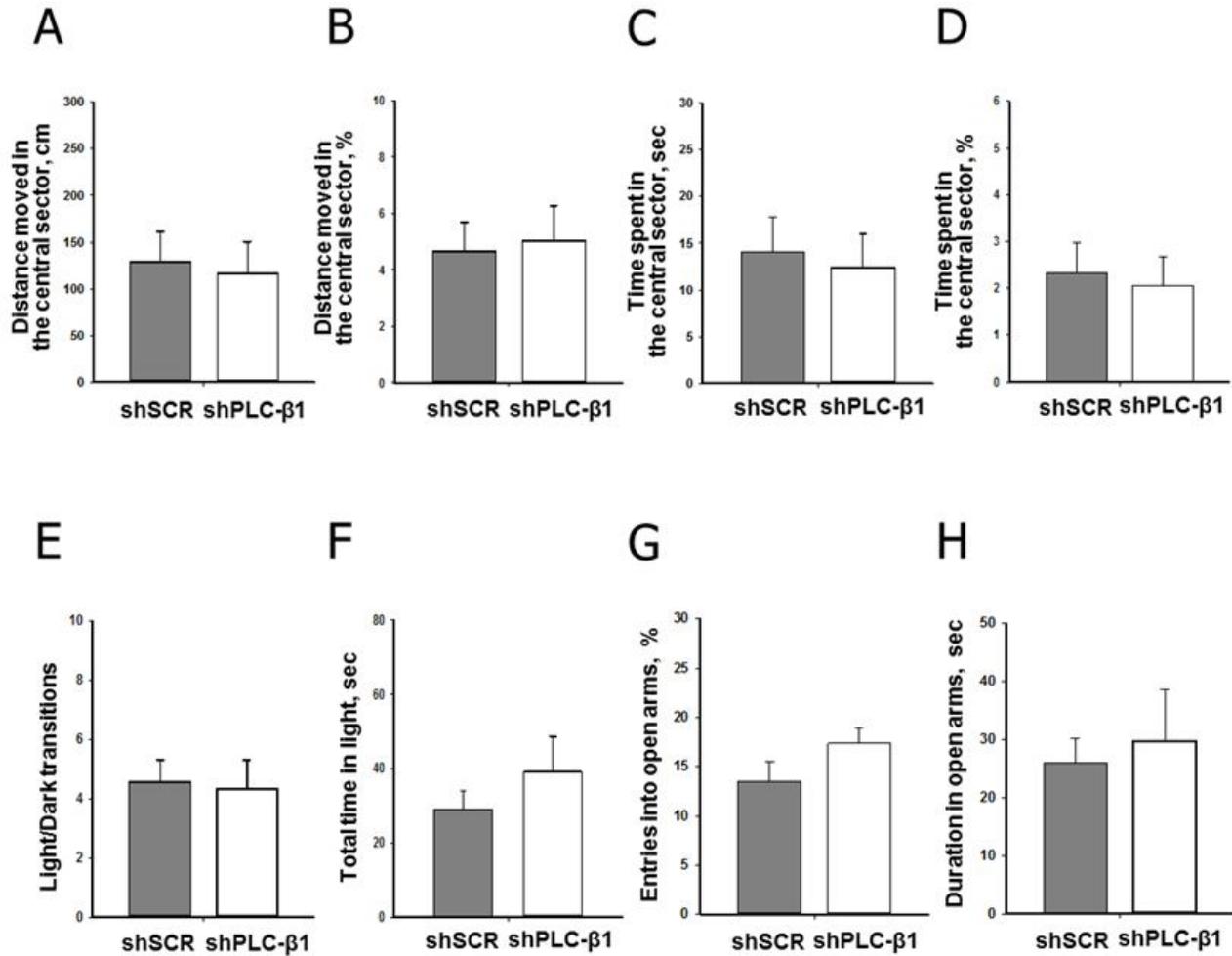
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**Fig. S1:** Endogenous expression of Phospholipase C- $\beta$ 1 (PLC- $\beta$ 1) in the medial prefrontal cortex (mPFC). **(A)** Specific immunohistochemical staining for PLC- $\beta$ 1 was primarily observed in the mPFC of wild-type mice. **(B)** PLC- $\beta$ 1<sup>-/-</sup> mice were negative for PLC- $\beta$ 1 staining. Panels **(C)** and **(D)** are higher magnification images corresponding to rectangles in **(A)** and **(B)**, respectively. Scale bars: 100  $\mu$ m (**A** and **B**) and 25  $\mu$ m (**C** and **D**).



**Fig. S2:** Right/left discrimination by small hairpin scrambled sequence RNA (shSCR)- and shPLC- $\beta$ 1-injected mice in the T-maze task using a delay of 4 seconds. **(A)** Days to reach the criterion (2-tailed *t* test, *n* = 10 per group). **(B)** Number of mice reaching the criterion within 10 days, as a percentage. Data are presented as means  $\pm$  standard errors of the mean (SEM) \**p* < 0.05, \*\**p* < 0.01, 2-tailed *t* test.



**Fig. S3:** Anxiety in medial prefrontal cortex (mPFC)-specific phospholipase C- $\beta$ 1 (PLC- $\beta$ 1) knockdown mice. **(A–D)** Open field test. **(A–B)** Distance of locomotion and the percentage of distance in the central area of the open field during the first 10 minutes. **(C–D)** Time and the percentage of time in the central area of the open field during the first 10 minutes. **(E–F)** Light-dark box test. There was no significant difference in the number of entries from dark side to light side or time spent in the light side. **(G–H)** Elevated-plus maze test. There was no significant difference in duration spent in open arms or percentage of entries into open arms. Data are presented as means  $\pm$  standard errors of the mean (SEM;  $n = 12$  per group).