

Supplementary Table 1

Assay	findings in PV-Cre/NR1 f/f mice
<i>anesthetized electrophysiology:</i>	
spontaneous oscillations	↑ gamma power
induced oscillations (optogenetics)	↓ gamma induction
<i>awake electrophysiology:</i>	
spontaneous oscillations	→ gamma power; → event; ↑ duration
MK-801	↓ gamma power
<i>behavior:</i>	
open field 7w	→
open field 11w	→
open field 11w + MK-801	→ horizontal activity and stereotypy
PPI	→
habituation	↓
cued fear conditioning	↓ freezing
contextual fear conditioning	↓ freezing
Morris water maze	→
T-maze	↓ at 1s, → at 20s, → at 40s

gamma power = relative gamma power; ↓ = reduction, → = no significant difference; ↑ = increase

Summary of the findings in PC-Cre/NR1 f/f mice in the assays used.