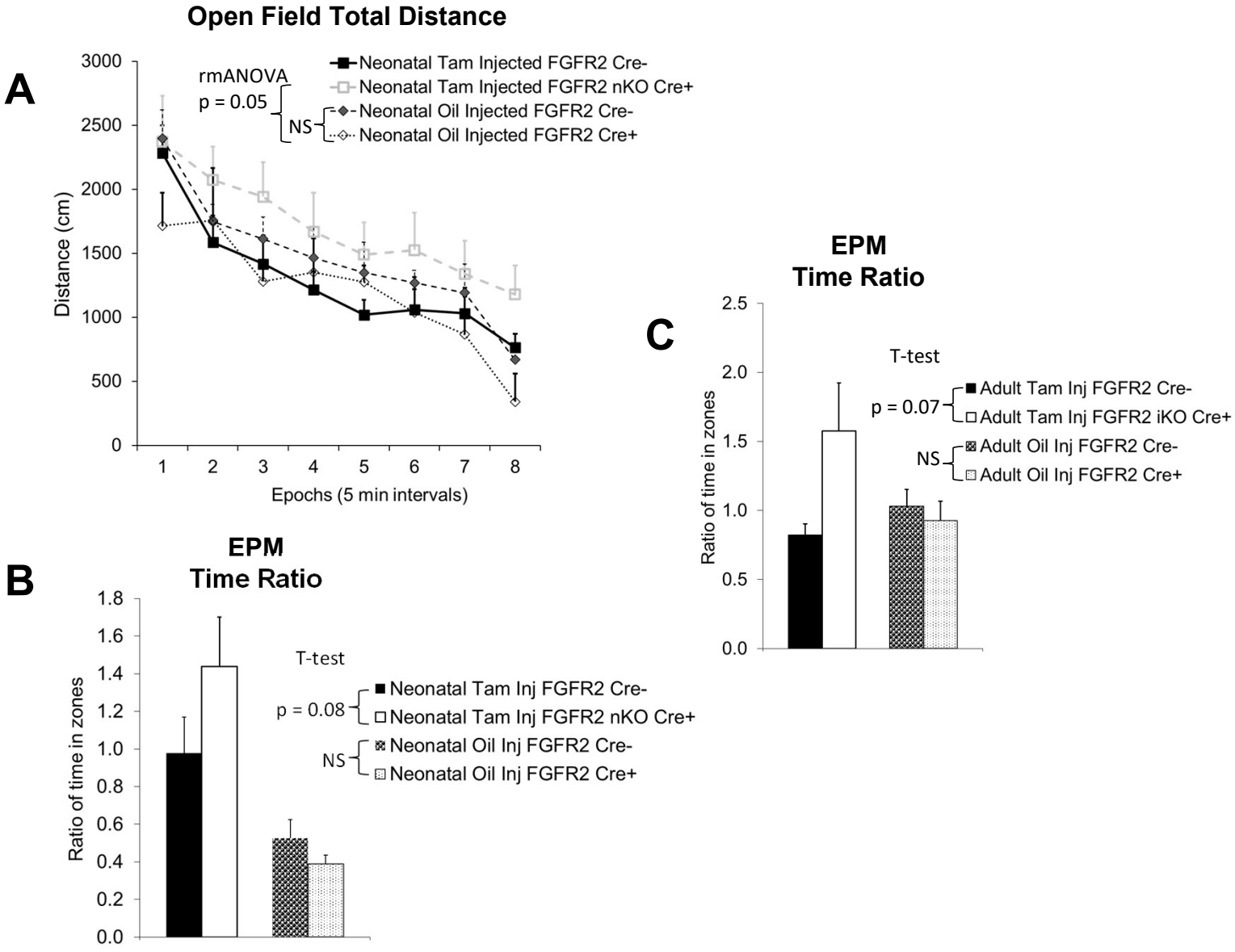
Supplemental Fig 1

Additional Controls: **A,B.** Comparison of neonatal vehicle/oil injected FGFR2 Cre- and Cre+ control mice with neonatal tamoxifen injected FGFR2 Cre- and nKO Cre+ mice on two key behavioral tasks for which there were differences for Tam-induced FGFR2 nKO.

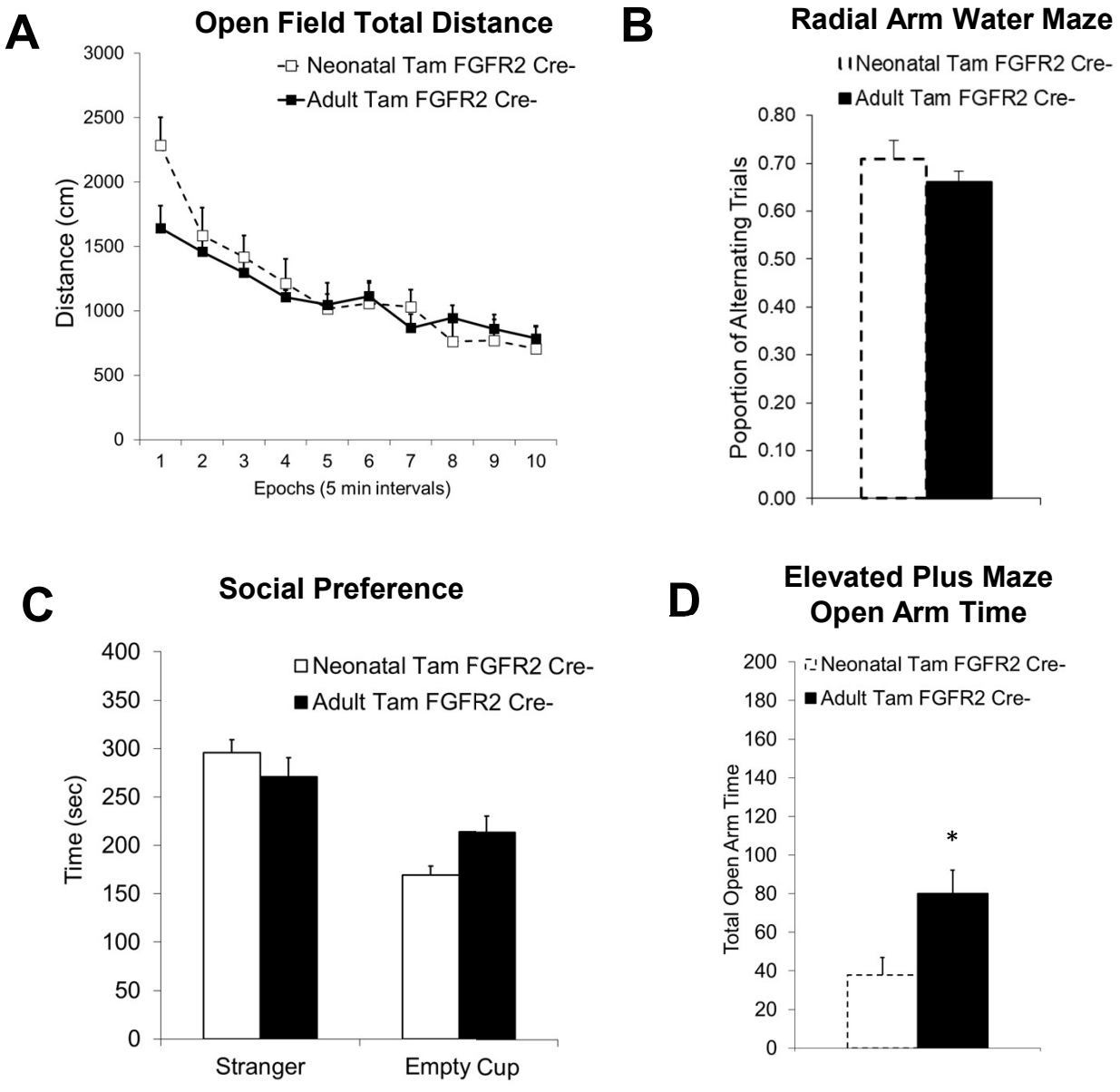
A. Increased activity in open field of Tam-injected Cre+ animals compared to Oil-injected Cre+ animals (rmANOVA n=3 oil inj Cre+ vs n=10 tam inj Cre+, rmANOVA: F (1, 11) = 4.574, p=0.056). Neonatal Tam Inj FGFR2 Cre- mice (n=10) and Neonatal Oil Inj Cre+ mice (n=5) included for demonstration of similarity to Neonatal Oil Inj FGFR2 Cre+ mice.
B. Time Ratio in Zones of Elevated Plus Maze. Difference of Cre- and Cre+ Tam Inj mice (n=10,10) shown for comparison to no difference in Cre- and Cre+ Oil Inj mice (n=3,5). (NS= No significant difference or trend)

C. Comparison of adult vehicle/oil injected FGFR2 Cre- and Cre+ control mice with adult tamoxifen injected FGFR2 Cre- and iKO Cre+ mice on the only behavioral task for which there was a difference for Tam-induced FGFR2 iKO. Time Ratio in Zones of the Elevated Plus Maze. Difference of Cre- and Cre+ Tam Inj mice (n=7,10) shown for comparison to no difference in Cre- and Cre+ Oil Inj mice (n=3,4) (NS= No significant difference or trend)

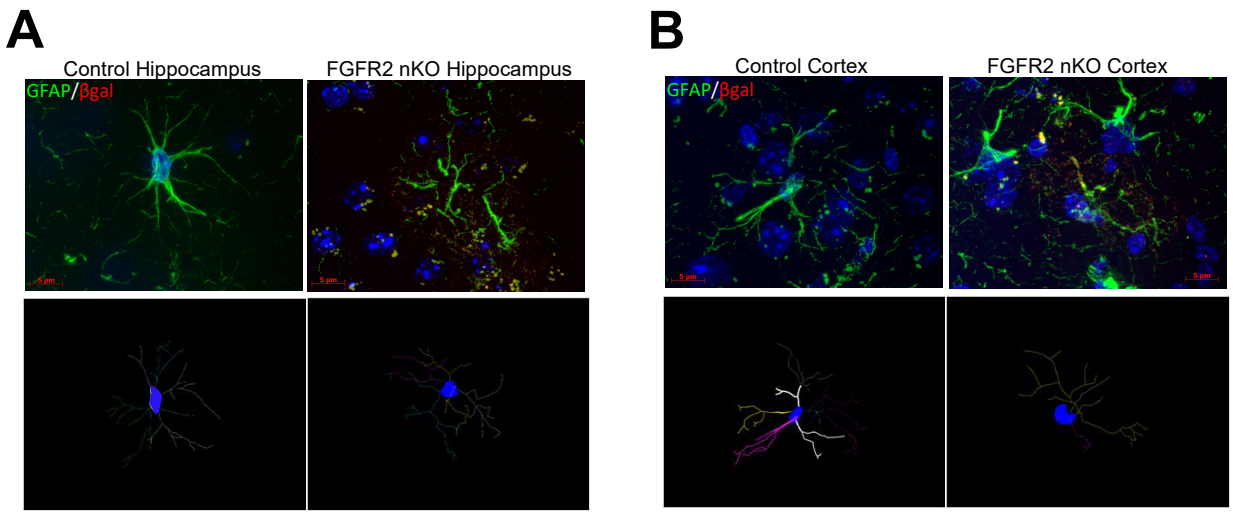


Supplemental Fig 2

Comparison of neonatal tamoxifen injected FGFR2 Cre- controls with adult tamoxifen injected FGFR2 Cre- controls (n=9 neonatal tam vs n=6 adult tam). A: No difference in Open Field Activity (rmANOVA: F (1, 130) = 1.034, p=0.311); B: No difference in Y-maze Spontaneous Alternation (p=0.38); C: No difference in Social Preference (two-way ANOVA interaction: F (1, 26) = 1.726, p=0.2004); D. Increased time in Open Arms of Elevated Plus Maze in adult tamoxifen injected FGFR2 Cre- Controls (p=0.012).



Supplemental Fig 3



Visualization of overall normal astrocyte structure in control and FGFR2 nKO mice

Supplemental Table 1. Quantification of FGFR2 knock out with neonatal tamoxifen induction of *hGFAP-CreER*^{T2}

	Control *Fgfr2* Gene Expression Mean ± SEM	**FGFR2 nKO *Ffgr2* Gene Expression Mean ± SEM**	**Difference**	**P value Difference**
Juvenile Cortex	1.00 ±0.07 (n=8)	0.71 ± 0.07 (n=6)	↓29%	0.08¥
Juvenile Hippocampus	1.00 ±0.08 (n=8)	0.61 ± 0.04 (n=6)	↓39%	0.03*
Adult Anterior Cortex	0.87 ±0.10 (n=3)	0.49 ± 0.04 (n=3)	↓43%	0.03*
Adult Posterior Cortex	1.21 ±0.11 (n=3)	0.69 ± 0. (n=3)	↓43%	0.01*
Adult Hippocampus	0.74 ±0.14 (n=3)	0.5 ±0.07 (n=3)	↓33%	0.18

* significance $p<0.05$; ¥-trending significance, $0.05 \leq p < 0.15$