**Immature brain cortical neurons have low transcriptional competence to activate antiviral defences and control RNA virus infections**

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**Supporting Information**

**Supplementary Table S1.** A list of the highly variable genes in three major bands presented in Fig. 4A.

**Supplementary Figure S1. Pathway activation and upstream transcriptional regulator activation profiles following pre-treatment with IFNβ and SFV infection. (**A) Heatmap showing clustering analysis of the key predicted pathways altered in immature and mature neurons in response to IFNβ pre-treatment and SFV infection. The activated pathways are coloured red and inhibited pathways are coloured blue based on the activation Z-score. Upstream transcriptional activation in response to IFNβ pre-treatment and SFV infection in mature (B) and immature (C) neurons. Upstream transcriptional regulators with p value <0.05 and predicted to be activated or inhibited (absolute Z-score >3) were considered in the analysis. The activated pathways are coloured red and inhibited pathways are coloured blue based on the activation Z-score.