

## **SUPPLEMENTAL MOVIE LEGENDS**

**Supplemental Movie S1: 3D reconstruction of an E14.5 control brain hemisphere injected with EGFP-expressing retrovirus at E13.5.** The pial surface and the lateral ventricle are represented by colored lines; Green filled circles represent RGPs, yellow filled circles represent IPs, and red filled circles represent Ns.

**Supplemental Movie S2: 3D reconstruction of an E14.5 *Pard3* cKO brain hemisphere injected with EGFP-expressing retrovirus at E13.5.** The pial surface and the lateral ventricle are represented by colored lines; Green filled circles represent RGPs, yellow filled circles represent IPs, and red filled circles represent Ns.

**Supplemental Movie S3: 3D reconstruction of an E16.5 control brain hemisphere injected with EGFP-expressing retrovirus at E15.5.** The pial surface and the lateral ventricle are represented by colored lines; Green filled circles represent RGPs, yellow filled circles represent IPs, and red filled circles represent Ns.

**Supplemental Movie S4: 3D reconstruction of an E16.5 *Pard3* cKO brain hemisphere injected with EGFP-expressing retrovirus at E15.5.** The pial surface and the lateral ventricle are represented by colored lines; Green filled circles represent RGPs, yellow filled circles represent IPs, and red filled circles represent Ns.