# Supplementary legends

# Supplementary Video 1. PLM cell migration in uninjected wild type embryo.

A time-lapse imaging of uninjected *fli1:GFP*; *phldb1:Gal4-mCherry* double transgenic embryo. The video was captured from 14hpf onwards. The embryo is shown in a dorsal view, with head to the left. Elapsed time is shown at the top right.

# Supplementary Video 2. PLM cell migration in jam1a MOatg-injected embryo.

A time-lapse imaging of *fli1:GFP*; *phldb1:Gal4-mCherry* double transgenic embryo injected with *jam1a* MOatg. The video was captured from 14hpf onwards. The embryo is shown in a dorsal view, with head to the left. Elapsed time is shown at the top right.

## Supplementary Video 3. PLM cell migration in jam1a MOex7-injected embryo.

A time-lapse imaging of *fli1:GFP*; *phldb1:Gal4-mCherry* double transgenic embryo injected with *jam1a* MOex7. The video was captured from 14hpf onwards. The embryo is shown in a dorsal view, with head to the left. Elapsed time is shown at the top right.

### Supplementary Video 4. PLM cell migration in jam2a MO-injected embryo.

A time-lapse imaging of *fli1:GFP*; *phldb1:Gal4-mCherry* double transgenic embryo injected with *jam2a* MO. The video was captured from 14hpf onwards. The embryo is shown in a dorsal view, with head to the left. Elapsed time is shown at the top right. It should be noted that *jam2a* morphants show torsion in the development of the left-right body axis.

### Supplementary Video 5. PLM cell migration in jam2a MOex5-injected embryo.

A time-lapse imaging of *fli1:GFP*; *phldb1:Gal4-mCherry* double transgenic embryo injected with *jam2a* MOex5. The video was captured from 14hpf onwards. The embryo is shown in a dorsal view, with head to the left. Elapsed time is shown at the top right.

**Supplementary Table 1. Effects of morpholino oligonucleotides.** 

Supplementary Table 2. Primer sequences for cDNA cloning, RT-PCR, and qPCR