

SUPPLEMENTAL MATERIAL

Supplemental Video 1: Time-lapse recording of a control NC 13 embryo expressing *RFP-PACT* (magenta) and *GFP-Cnn* (green). Playback speed is 6 frames per second. Approximately 5.5 minutes of developmental time is displayed.

<https://figshare.com/articles/media/Videos/17072552>

Supplemental Video 2: Time-lapse recording of a *cen* null NC 13 embryo expressing *RFP-PACT* (magenta) and *GFP-Cnn* (green). Playback speed is 6 frames per second. Approximately 5.5 minutes of developmental time is displayed.

<https://figshare.com/articles/media/Videos/17072552>