

**Movie EV5: *sim*-MS2 expression in a Delta::CRY2 embryo, 10 min signaling.**

Confocal movie shown as a maximum intensity projections of 63 slices at 0.4  $\mu\text{m}$  z-interval of a Delta::CRY2 embryo in which signaling was allowed for 10 min according to the photo-activation scheme in Figure 4(D) and described in the methods. Image acquisition ( $\lambda = 488 \text{ nm}$ ) was started when *sim* spots were visible and was continued until the onset of ventral furrow formation at a time-resolution of 30 sec. Scale bar, 10  $\mu\text{m}$ .