Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: Raw data in Excel file (12 sheets)

- 1. Erk-7s: Data at 7 somites and different temperatures used in Fig.S5 _ digitisation of Erk activity from data as in Fig. 7.
- **2.** Erk-11s: Data at 11 somites and different temperatures used in Fig.S5 _ digitisation of Erk activity from data as in Fig. 7.
- **3.** Erk-15s: Data at 15 somites and different temperatures used in Fig.S5 _ digitisation of Erk activity from data as in Fig. 7.
- **4.** Erk-19s: Data at 19 somites and different temperatures used in Fig.S5 _ digitisation of Erk activity from data as in Fig. 7.
- RTqPCR_Fgf8_27C: Data on Fgf8 expression at 27°C vs Rpl13 and b-actin used in Fig.5 _ Obtained on LightCycler 480.
- 6. RTqPCR_27C: Data on gene expression in PSM, remaining Trunk (T) or Whole (W) embryo at 27°C used in Figs. 5, 6, and 8 and Fig. S6.
- RTqPCR_stage: Data on gene expression in Whole embryo at given stage of somitogenesis and temperatures: 23°, 26°, 29° and 31°C used in Figs .6 and 8 and Figs. S6 and S8.
- **8. RTqPCR_time:** Data on gene expression in Whole embryo at given time (1-8h) after bud stage and temperatures: 24°, 28° and 33°C used in Figs. 6 and 8.
- **9.** WT-growth: Data on growth of tail and shrinkage of PSM in WT embryos used in Fig. 4e and S2.
- **10. Fgf_Phenotypes-growth:** Data on growth of tail and shrinkage of PSM in Fgf8 overexpressing embryos used in Fig. 4e.
- **11. RA_Phenotype-growth:** Data on growth of tail and shrinkage of PSM in embryos incubated in DEAB and RA used in Fig. S2b.
- **12. Erk-with-exoFgf (15s):** Data on Erk activity in WT embryos and embryos overexpressing Fgf8 from an exogenous source (shown in Fig. 4); data used in Fig. S4.