Supplementary Figure 1

ΔT (°C) vs. Time (min)

Driving current (A) vs. Time (s)
**Supplementary Figure 2**

**a**

E9.25 (20 som.) WT w/ magnetic beads injected

E9.25 (21 som.) WT w/o magnetic beads injected

**b**

Time (s)

Location (pixels)

**c**

Displacement (µm)

Time (s)

-0.1 to 0.5

Magnetic bead

Fluorescent bead

**d**

Immediate elastic response
Creep
Relaxation

\[ \frac{1}{k_0} \left( 1 - \frac{k_1}{k_0 + k_1} e^{-\frac{t}{\tau}} \right) \]

where \( \tau = \frac{\mu(k_0 + k_1)}{k_0 k_1} \)

\( \mu \)

\( k_0 \)

\( k_1 \)