



Figure S1 Temperature Dependence of GFP-expressing *E. coli*. Fluorescence intensity of GFP (solid black curve) expressed in *E. coli* measured on a thermo-controllable stage decreases linearly. In all calibration experiments we used the fit line, F , to convert changes in fluorescence intensity into temperature changes. The fit (dashed black curve) obeys $f = -0.0079t + 1.18$, where t is the temperature in °C and f is the fluorescence intensity relative to the fluorescence intensity at 23 °C. The fluorescence temperature dependence measured here is comparable to that previously described (Kamei et al. 2009).