

Supplementary Information for *Scientific Reports*

Ca²⁺-permeable mechanosensitive channels MCA1 and MCA2 mediate cold-induced cytosolic Ca²⁺ increase and cold tolerance in Arabidopsis

Kendo Mori^{1,§}, Na Renhu^{2,§}, Maho Naito¹, Aki Nakamura¹, Hayato Shiba²,
Tsuyoshi Yamamoto², Takuya Suzaki², Hidetoshi Iida^{1,*}, Kenji Miura^{2,*}

²Department of Biology, Tokyo Gakugei University, 4-1-1 Nukui kita-machi, Koganei,
Tokyo 184-8501, Japan

²Graduate School of Life and Environmental Sciences, University of Tsukuba, Tsukuba
305-8572, Japan

[§]These authors contributed equally to this work.

*Correspondence to email: miura.kenji.ga@u.tsukuba.ac.jp & iida@u-gakutei.ac.jp

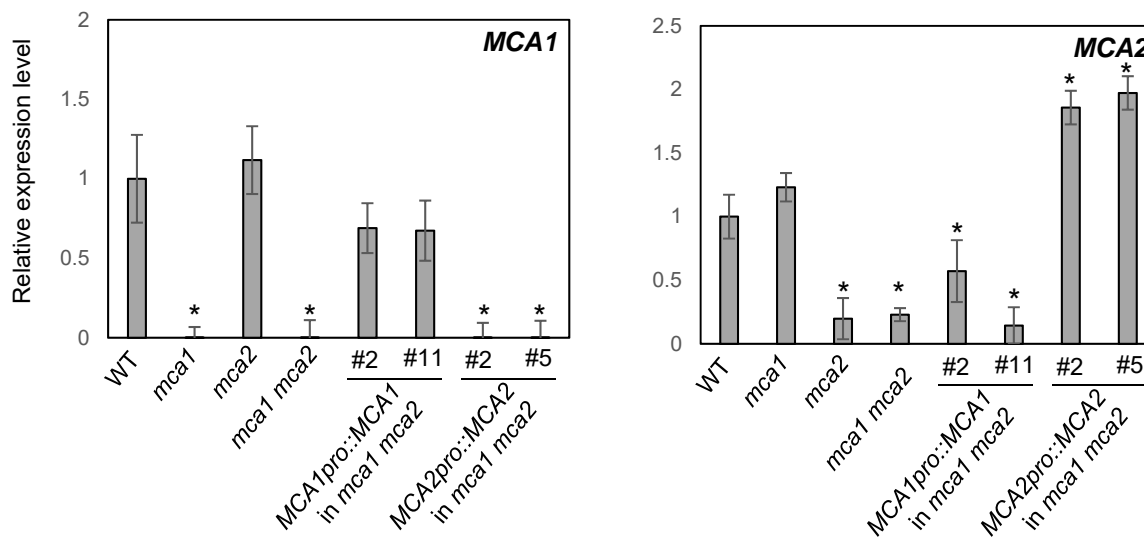


Figure S1. The levels of the *MCA1* and *MCA2* transcripts in the mutant and complement lines. Total RNA was purified from 8 plants grown for 14 days. Transcript levels of the *MCA1* and *MCA2* genes were measured by quantitative real-time PCR as described in Methods in the main text. Values represent the means \pm SD ($n = 3$). An asterisk indicates a significant difference from wild-type plants as determined by unpaired Student's *t*-tests.