

- 1
- 2

3 Figure S3. Starch levels determined by enzyme linked assays under different environmental

4 **conditions.** Plants of Col-0 and *fum2.2* were grown under 100 μmol m² s⁻¹ light, 8 h light/16 h dark,

5 500 μL L⁻¹ CO₂, 20 °C light/18 °C dark conditions for 8 w. Plants were then transferred to control

6 (identical) conditions, low temperature (4 $^{\circ}$ C), high carbon dioxide (1500 μ L L⁻¹) or high light (400

7 μ mol m² s⁻¹ light) for one photoperiod. Measurements were taken at the end of the photoperiod (8

8 h) from liquid N_2 flash-frozen, fully-expanded leaves, as in Fig. 2.

9