

Figure S1. Expression profile of the tandemly duplicated CA genes in *Z. mays*. (a) eFP Browser expression profile of *Ca1*, (b) *Ca2*, and (c) *Ca3*.

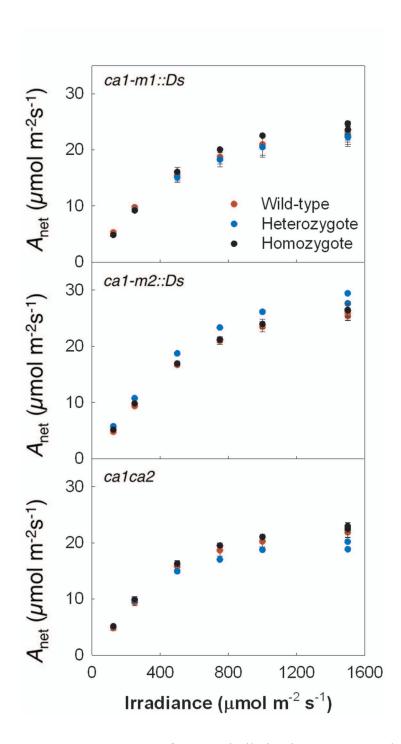


Figure S2. Net rates of CO_2 assimilation in response to changes in PAR. *A-PAR* curves for each of the CA mutant lines measured at a pO_2 of 18.6 kPa, leaf temperature of 25 °C and 37.2 Pa of CO_2 .

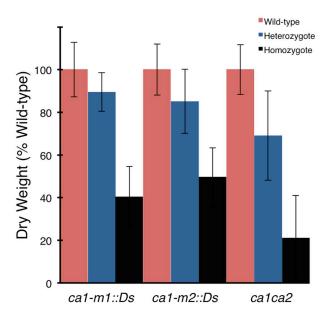


Figure S3. Dry weight biomass of mutant plants grown at low CO₂. The dry weight of above ground biomass for each CA mutant line plotted as a percentage of wild-type biomass.