



Figure 3. Hydrogen photoproduction in *C. reinhardtii* wild-type and two *flvB* mutants. After 1.5h of dark anaerobic acclimation, wild-type (WT, red) and two *flvB* mutants (*flvB-208* in black, and *flvB-308* in grey) cell suspensions were illuminated ($660 \mu\text{mol photons m}^{-2} \text{ s}^{-1}$ green light) and H₂ production was recorded with a MIMS. (A) Representative traces of H₂ production. (B) H₂ production rates during the first three minutes of illumination. Due to some variability in absolute gas exchange values between biological replicates, shown data are expressed relative to the WT mean level (\pm SD, $n=3$ for the mutants, $n=6$ for the WT). Stars indicate significant difference between WT and mutant strains (P -value < 0.05) based on ANOVA analysis (Tukey adjusted P value).