

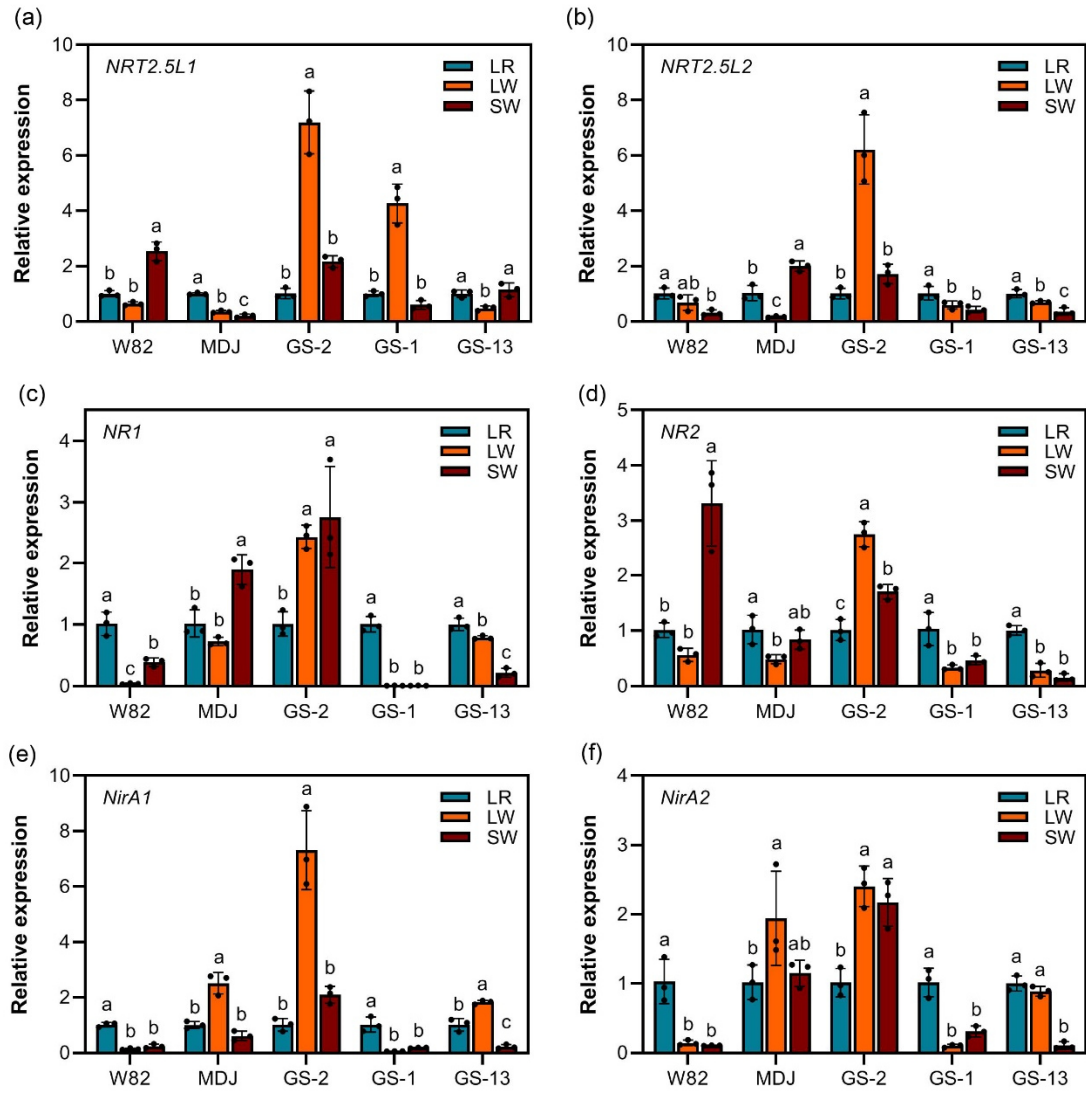


Fig. S10 Relative expression analysis of key nitrogen metabolism genes in different soybean varieties. The relative expression levels of *NRT2.5L1* (a), *NRT2.5L2* (b), *NR1* (c), *NR2* (d), *NirA1* (e), and *NirA2* (f) in the shoot apex of five soybean germplasms (W82, MDJ, GS-2, GS-1, GS-13) under various light conditions were determined by qRT-PCR, with *GmActin* serving as the endogenous reference gene. LR indicates a long-day light condition with white:red = 6:1. LW indicates long day white light condition. SW indicates short day white light condition. Data are expressed as mean $\pm$ SD. n= 3. Different letters above the bars represent significant differences at $P < 0.05$ (Duncan's test).