



Supplemental Figure S1. Plant growth response to D-glucose. Plants used in the test were plated as shown in (A). Seeds were grown on $\frac{1}{2}$ MS medium supplemented with 0 – 7% D-glucose. The materials used included Col-0, *agb1-2*, *rgs1-2*, *sgb1-1^D agb1-2* and 3 transgenic lines of 35S-SGB1 *agb1-2*. Plants were grown for 10 days in constant dim light (B) and the number of green plants were counted and expressed as a percentage of total seeds germinated (C and D). Compared to Col-0, *agb1-2* seedlings were hypersensitive to D-glucose and *rgs1-2* were tolerant to high D-glucose (C). Increased expression of SGB1 in *agb1-2* background mimicked wild type Col-0.