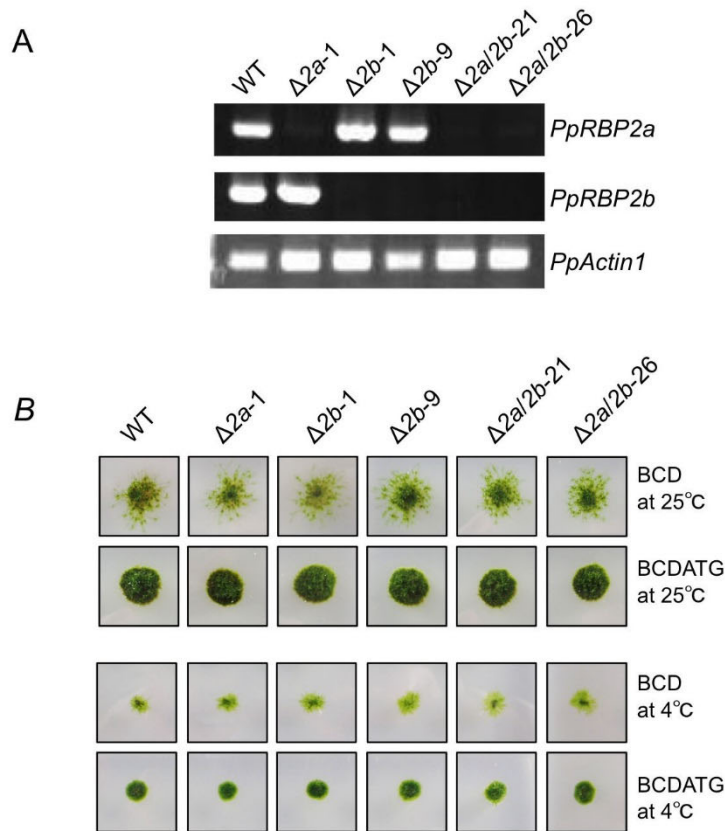




**Supplementary Fig. 3. Phenotype of knockout (KO) mutants of RRM protein genes.**

- (A) wild type (WT), *PpRBP2a* KO mutant ( $\Delta 2a-1$ ), *PpRBP2b* KO mutants ( $\Delta 2b-1$ ,  $\Delta 2b-9$ ), *PpRBP2* double KO mutants ( $\Delta 2a/2b-21$ ,  $\Delta 2a/2b-26$ ). RT-PCR for the *PpActin1* transcript served as the control.
- (B) Protonemata colony of the wild type (WT), single or double KO mutants of *PpRBP2*. The mosses were grown on BCD or BCDATG plates for three weeks at 25°C under continuous white light ( $50 \mu\text{mol m}^{-2} \text{s}^{-1}$ ). For growth at low temperature, the mosses were grown for one week at 25°C under continuous white light ( $50 \mu\text{mol m}^{-2} \text{s}^{-1}$ ) followed by two weeks at 4°C under continuous white light ( $10 \mu\text{mol m}^{-2} \text{s}^{-1}$ ).