

Figure S1. The expression of 35S::HMGR1S-FLAG or 35S::HMGR1S_S577A-FLAG complemented the pleiotropic phenotype of *Arabidopsis* (*WS*) *hmg1-1* mutant.

Arabidopsis seedlings (14 days old) grown on MS plate with 3% sucrose and 1.2% agar [A]. *Arabidopsis* seedlings 12 days old [B] and 22 days old [C] grown on MS plate with 1% sucrose, 0.8% agar. *Arabidopsis* seedlings (14 days old) grown on MS plate with 3% sucrose, 1.2% agar, and 300 nM lovastatin [D]. The crude cellular extracts of *Arabidopsis* seedlings from [A] were fractionated on SDS-PAGE with FLAG-tag purified AtHMGR1S (line #2) as a control [E]. The HMGR band of lane-4 migrated a bit faster because it is derived from a wild type *Arabidopsis* which does not contain a FLAG-tag moiety.

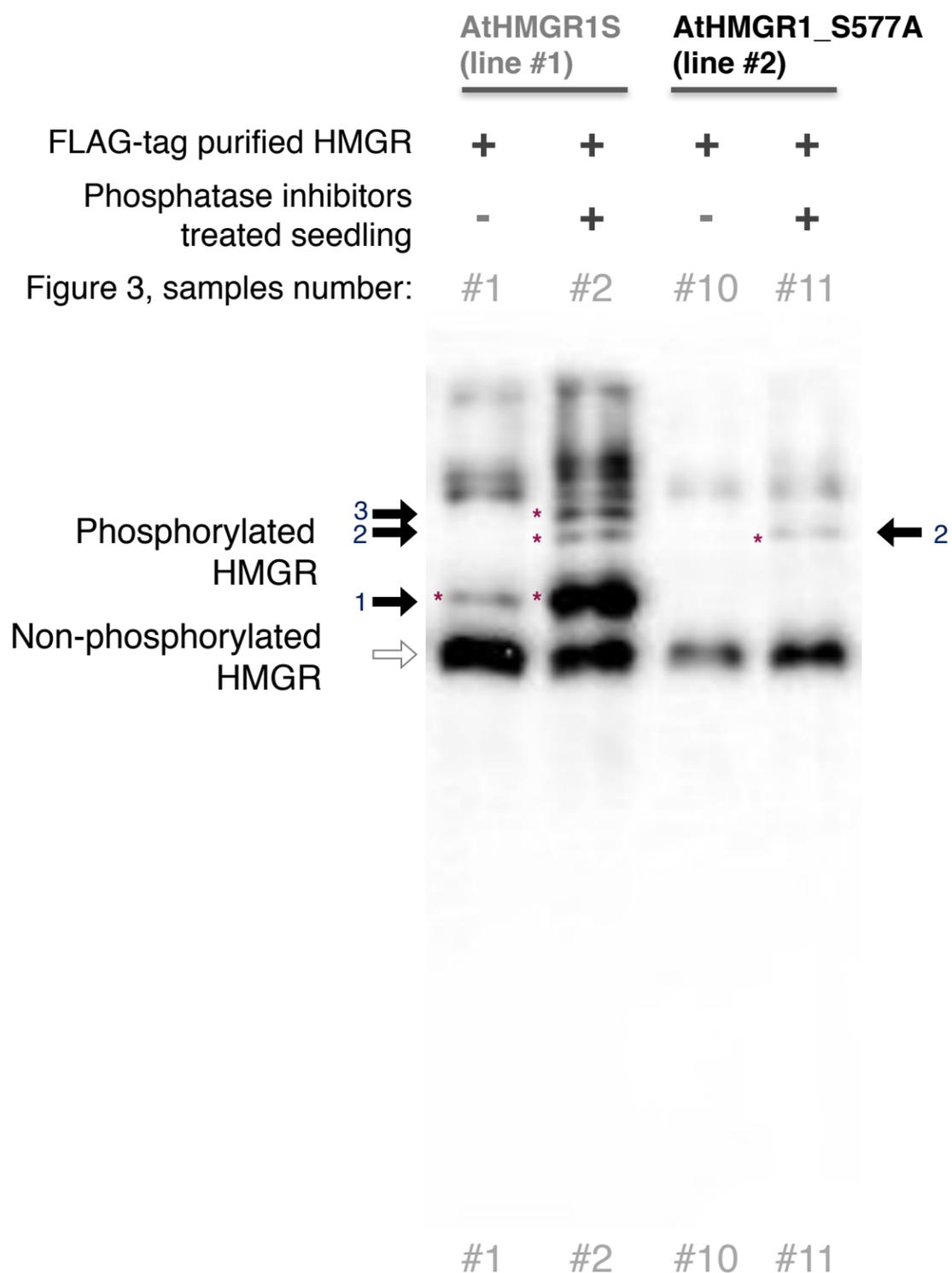


Figure S2. The phosphatase inhibitors treatment induced phosphorylation at other than S577.

The Phos-tag SDS-PAGE of samples in lanes 1, 2, 10, and 11 was repeated without the addition of lambda phosphatase buffer to get sharp separation of protein bands. The phosphorylated HMGR has slower electrophoretic mobility (indicated by black arrow and asterisks) compared to the non-phosphorylated HMGR (indicated by blank arrow) in Phos-tag SDS-PAGE.