Supplementary Figure S1. Lack of gravitropic response and asymmetric expression of *IAA2:GUS* auxin reporter expression in *dgt*. (A) Images of seedlings gravistimulated at 135° for 16 h. (B) Images of roots stained for GUS. Scale bars: (A) 1 cm, (B) 100 µm.
Supplementary Figure S2. Restoration of lateral root formation in dgt upon transformation of DGT:mCherry-DGT construct. (A) Image of a transformed seedling. (B) Restoration of root branching correlates with red fluorescence confirming presence of the mCherry-DGT protein. Scale bar: (B) 100 µm.
Supplementary Figure S3. Restoration of lateral root formation in dgt upon grafting is not affected by the genetic background. Root growth in dgt1-1 (AC background) rootstock was restored upon grafting of Epi mutant scion (VFN8 background) and e mutant scion (AC background) but not dgt-dp (Chatham background).
Supplementary Figure S4. Western blot of DGT with anti-cyclophilin A antibody with root tips of grafted plants. The tissue identity in the different combinations is indicated. An arrowhead denotes the position of DGT. No DGT protein was detected in dgt rootstock grafted on dgt scion or wild type scion.