



**Supplemental Figure S6.** Amino acid sequences between conserved domains I and II for IAA proteins that contain a second LxLxL motif.

Amino acid sequence comparison of *Arabidopsis* (At) *IAA7* (AT3G23050), *IAA14* (AT4G14550), *IAA16* (AT3G04730), and *IAA17* (AT1G04250) with those from other plant species (*BrIAA*, *Brassica rapa* BAF81520; *GmIAA14*, *Glycine max* FJ534642; *PtIAA*, *Populus trichocarpa* XP\_002328494; *InIAA*, *Ipomoea nil* BAG55005; *MpIAA14*, *Malus prunifolia* BAH15071; *VvIAA*, *Vitis vinifera* XP\_002281771; *RcIAA16*, *Ricinus communis* XP\_002531288; *NtIAA28*, *Nicotiana tabacum* AF123508\_1; *CrIAA1*, *Catharanthus roseus* ADJ68049; *StIAA3*, *Solanum tuberosum* ACV31209; *SaIAA*, *Striga asiatica* ABD98055; *LlIAA*, *Lycoris longituba* ADG58023; *PmIAA7*, *Plantago major* CAH59413; *MjIAA1*, *Mirabilis jalapa* ACL81167; *OsIAA11*, *Oryza sativa* NM\_001057248; *ZmIAA30*, *Zea mays* NP\_001150626; *SbIAA*, *Sorghum bicolor* XP\_002443496). GenBank accession numbers are given for each example of the IAA proteins related to *Arabidopsis* IAA7, IAA14, IAA16, and IAA17. The conserved DLxLxL motif is boxed in yellow. Identical amino acids in the alignments that are found in four or more of the IAA proteins listed are boxed in grey. The sequences were aligned with Clustal W method and adjusted manually.