Supplementary Material

Desiccation treatment and endogenous IAA levels are key factors influencing high frequency somatic embryogenesis in *Cunninghamia lanceolata* (Lamb.) Hook

Xiaohong Zhou1,2†, Renhua Zheng3†, Guangxin Liu1,2, Yang Xu1‡, Yanwei Zhou1,2, Thomas Laux4, Yan Zhen1,2, Scott A. Harding5, Jisen Shi1,2\*, and Jinhui Chen1,2\*

**\* Correspondence:** Dr.Jinhui Chen: Tel.: +86 25 85428817; E-mail: chenjh@njfu.edu.cn; Dr. Jisen Shi: Tel.: +86 25 85428948; Fax: +86 25 85428948; E-mail: jshi@njfu.edu.cn.

## Supplementary Tables

**Supplementary Table S2.** Accession numbers of the SERK protein sequences used for phylogenetic analysis. At: *Arabidopsis thaliana*, Mt: *Medicago truncatula*, Os: *Oryza sativa*, Zm: *Zea mays*. (Nolan et al., 2003; Hu et al., 2005; Singla et al., 2009; Nolan et al., 2011)

|  |  |  |  |
| --- | --- | --- | --- |
| **Gene name**  | **Accession no.** | **Gene name**  | **Accession no.** |
| At\_SERK1 | AEE35238  | Mt\_SERK1 | AAN64293 |
| At\_SERK2 | AEE31686  | Mt\_SERK2 | ADO15291  |
| At\_SERK3 | AF384970 | Mt\_SERK3 | ADO15298  |
| At\_SERK4 | AEC06259  | Mt\_SERK4 | ADO15292  |
| At\_SERK5 | AEC06260  | Mt\_SERK5 | ADO15293  |
| Zm\_SERK-LIKE1 | CAC37640  | Mt\_SERK6 | ADO15294  |
| Zm\_SERK-LIKE2 | CAC37641  | Mt\_SERK-LIKE1 | ADO15295  |
| Zm\_SERK-LIKE3 | CAC37642  | Mt\_SERK-LIKE2 | ADO15296  |
| Os\_SERK1 | AAU88198  | Mt\_SERK-LIKE3 | ADO15297  |
| Os\_SERK2 | BAD86793  |  |  |

**Reference**

Hu, H., Xiong, L., and Yang, Y. (2005). Rice *SERK1* gene positively regulates somatic embryogenesis of cultured cell and host defense response against fungal infection. *Planta* 222(1)**,** 107-117.

Nolan, K.E., Irwanto, R.R., and Rose, R.J. (2003). Auxin up-regulates *MtSERK1* expression in both *Medicago truncatula* root-forming and embryogenic cultures. *Plant Physiology* 133(1)**,** 218-230.

Nolan, K.E., Kurdyukov, S., and Rose, R.J. (2011). Characterisation of the legume *SERK-NIK* gene superfamily including splice variants: implications for development and defence. *BMC Plant Biol* 11**,** 44.

Singla, B., Khurana, J.P., and Khurana, P. (2009). Structural characterization and expression analysis of the *SERK/SERL* gene family in rice (*Oryza sativa*). *Int J Plant Genomics* 2009**,** 539402.