10.1071/FP12174_AC

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Supplementary material

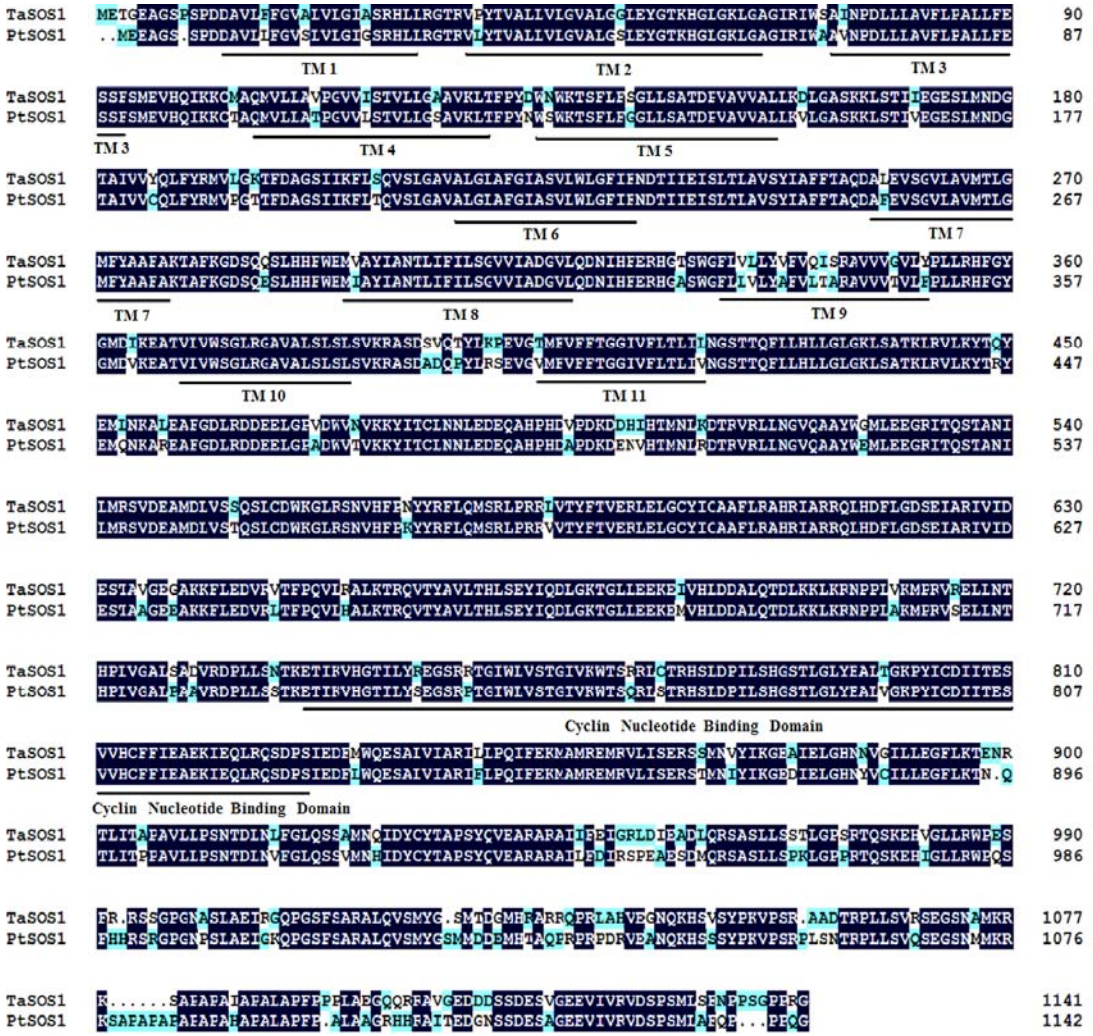

Fig. S1. Sequence alignment of PtSOS1 with other SOS1 from higher plants. Sources of plasma membrane Na^+/H^+ antiporters and their GenBank accession numbers are as follows: PtSOS1 (*Puccinellia tenuiflora*, GQ452778) and TaSOS1 (*Triticum aestivum*, AY326952). The sequences were aligned with DNAMAN 6.0 software. Amino acid residues highlighted in black are conserved in the two

transporters. The identical and different amino acid residues were indicated with white and green, respectively. The eleven putative trans-membrane domains (TM 1-TM 11) and cyclic nucleotide binding domain are underlined, respectively.

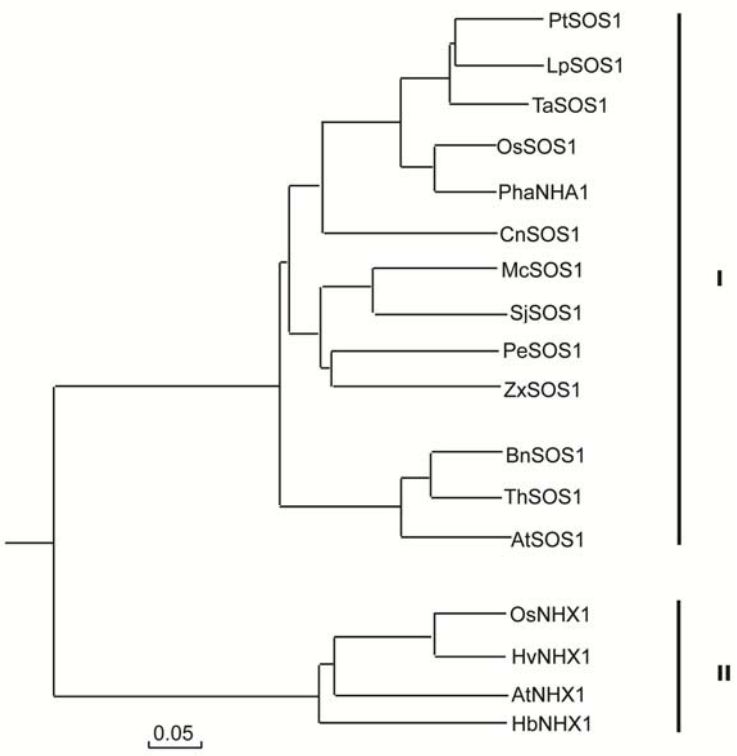

Fig. S2. Phylogenetic tree of the SOS1. The tree was constructed by the Neighbor-joining method. The proteins are as follows: PtSOS1 (*Puccinellia tenuiflora*, GQ452778), TaSOS1(*Triticum aestivum*, AY326952), OsSOS1 (*Oryza sativa*, AY785147), PhaNHA1 (*Phragmites australis*, AB244217), LpSOS1 (*Lolium perenne*, AY987046), CnSOS1(*Cymodocea nodosa*, AJ427294), PeSOS1 (*Populus euphratica*, DQ517530), SjSOS1 (*Suaeda japonica*, AB198179), ZxSOS1 (*Zygophyllum xanthoxylum*, GU177864), BnSOS1 (*Brassica napus*, EU487184), McSOS1 (*Mesembryanthemum crystallinum*, EF207776), ThSOS1 (*Thellungiella halophila*, EF207775), AtSOS1 (*Arabidopsis thaliana*, AF256224), HvNHX1 (*Hordeum vulgare*, AB089197), OsNHX1 (*Oryza sativa*, AB021878), HbNHX1 (*Hordeum brevisubulatum*, DQ285410) and AtNHX1 (*Arabidopsis thaliana*, AF510074).