

## Supplementary file 2

### The protein sequences used for phylogenetic analysis in this paper

>TaSPS1

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>TaSPS2

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>TaSPS3

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>TaSPS4

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>TaSPS5

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>OsSPS1

>OsSPS2

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>OsSPS6

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>OsSPS8

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>OsSPS11

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>StSPS1

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>StSPS2

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>StSPS3

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>StSPS4

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>AtSPS1

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>AtSPS4

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VRLSKRRIEREQGRNDAEEDLLSELSEGEKDKNDGEKEKSEVTTLEPPRDHMPRI  
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LTRQISSPEVDYSYGEPEVEMLSCPPEGSDSCGSIIRIPCGSRDKYIPKESLWPHI  
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PRMVVIPPGMDFSYVLTQDSQEPDGLDKSLIGPDRNQIKKPVPPIWSEIMRFFSN  
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>AtSPS5.1

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>AtSP5.2

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>SISPS1

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>SISPS2

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>SISPS3

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>SISPS4

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>NtSPS1

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>NtSPS2

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>NtSPS3

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