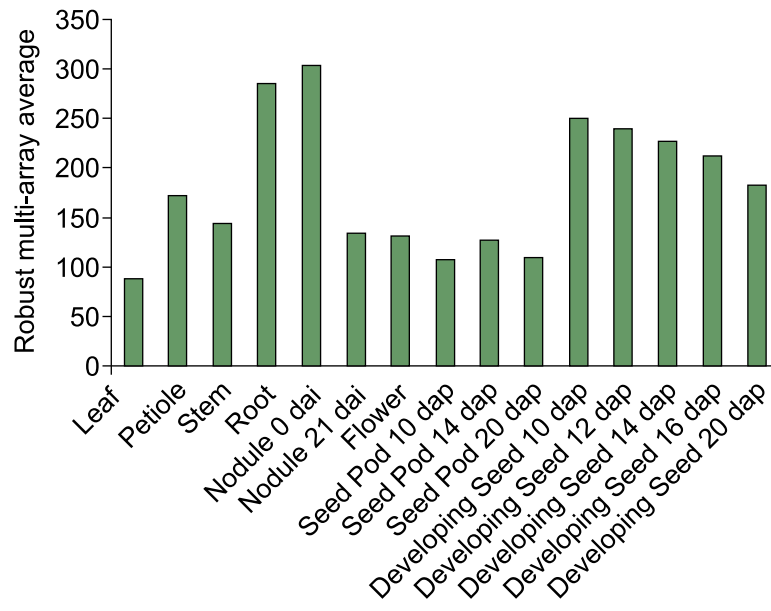
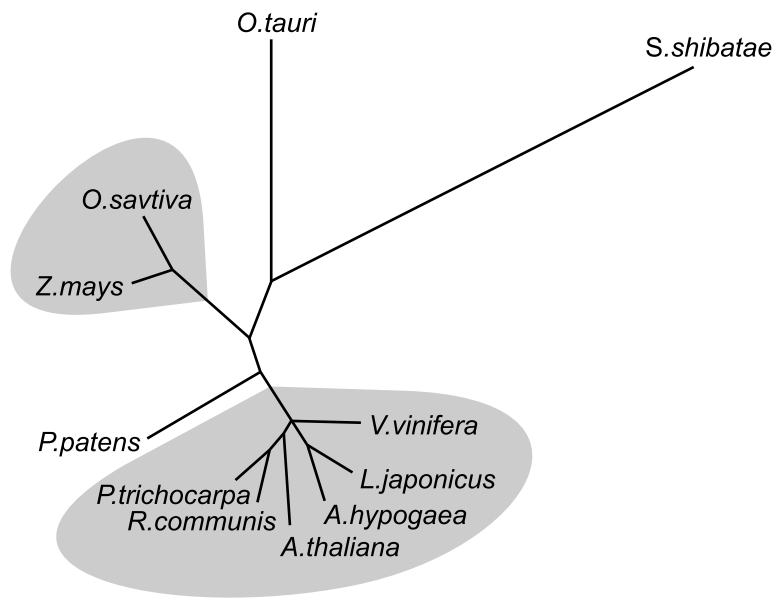


Yoon *et. al.* Figure S3





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*Z. mays* 1 MSEKRRRAGASAAGAA-SSSKKPRASSAASYAESLRSKLR---PDASTIATLRLSLASAS  
*O. sativa* 1 MSEKRRRGAGAGAASGSASKKPRVSTAASYAESLRSKLR---PDASTIATLRLSLASAC  
*L. japonicus* 1 MADGK-----KRRRTDPTENS--LFFKNKLLK---PDSVILETLKDFSTSS  
*A. hypogaea* 1 MAESS-----KRRRTNTDD---LFFKNKLLK---PDSTLIQILKDFSTSS  
*V. vinifera* 1 MADKK-----KRRRTDPSDSQQHLELFFKNSLK---SDEITLQTLKDLCSSS  
*R. communis* 1 MADTT-----KSKKRRRADPESTT--ELFFKNSLK---PDSVILETLNSLLQSL-  
*P. trichocarpa* 1 MADSTS-----TKSRKRRQDPDSTT--ELFFKNLLK---PDSVILQTLQSLVLS-  
*A. thaliana* 1 MADKK-----KRRRSKDDEAE--ELFFKSLLE---SDDVITELLSYIISSS  
*P. patens* 1 MSSDG-----PKQTQAA---LAFKKLLK---SDPDLTKIVTKFAEAA  
*O. tauri* 1 MSAER-----RKVSADAGVNFALARLRDGEDGRPGSTSEVLRANDLEREV  
*S. shibatae* 1 -----

*Z. mays* 56 -----ASKSKAD---ARSLADHPCADPAS SYIVVADQDSTSVTSRINRLVLAALAA  
*O. sativa* 57 SKSKPAGS SSSSSSA---SKALAAED---DPAA SYIVVADQDASVTSINRLVLAALAA  
*L. japonicus* 41 -----SASSSSSAADKT LTLQDLS---LFFRCREVADLSLSSVQSNLESHARKLA  
*A. hypogaea* 40 -----SSSSSS---KALTLQDLS---LFFSCREVSDLSLSSVQSIIEISLVRLFA  
*V. vinifera* 44 -----SSDGAAG---TLTSLDLG---LASTCREVADLSLSSVQSTIETLILRLT  
*R. communis* 44 -----SSSSSS---KPLTLSDLG---LSTCREVTDLSSLSSVQSVIEFVVLST  
*P. trichocarpa* 46 -----TASASSS---KPLTLSDLG---LSSSCREVADLSLTSVQSEIEAETISLV  
*A. thaliana* 42 IKAAAGAGGASSSSS---KPLTLADLS---LSSSCREVADLSLSSVQTEIETVIVQLA  
*P. patens* 38 K-----EADVEIR---TLADLN---LANSCKEVVLEINTRSVVLEVEKSLALA  
*O. tauri* 47 -----KARGVKR---KTLNDLS---LAAYREVVDREGGETAAAIEQVMLAVA  
*S. shibatae* 1 -----MS-----SEFISKVDKEARRKAANIIRDKFLNIV

*Z. mays* 103 RSILSGRGFSFVPSRAASNOVYLPDLDRIVLVRRESARPFANVATARKATITARVLSLV  
*O. sativa* 109 RSILSGRGFSFVPSRAASNOVYLPDLNRIVLVRRESARPFANVATARKATITARVLFV  
*L. japonicus* 89 HSILTGNGFAFDVPSRSANQLYVPELDRIVLKDSSLRPFANVSTVRKSAITARILEL  
*A. hypogaea* 84 HSILSGNGFAFDVPSRSANQLYVPELDRIVLKDSSLRPFANVSTVRKSAITARILQLV  
*V. vinifera* 87 HSILSGOGFSFVPSRSANQLYVPELDRIVLKDSSLRPFANVSTVRKSAVITRILQL  
*R. communis* 88 QSILSGEGFSFVPSRAATNQLYVPELDRIVLKDKNILRPFANVSSVRKSTITAKILSLV  
*P. trichocarpa* 90 QSILSGRGFSFVPSRSANQLYVPELDRIVLKDKNILRPFANVSSVRKCTITARILSL  
*A. thaliana* 94 RSILAGDGFSSVPSRAASNOVYVPELDRIVLKDSSLRPFANVSSVRKTTITRILAL  
*P. patens* 80 KSILSGNGFGYLTPSRSANQLYVPELDRIVLKDASRPFANVAVSRKTAITRILQLV  
*O. tauri* 89 RSVMRGDFEYTPSRGATDQVYVEALDRIVLKNKTRAAFGTSSVRKVTILTRVMQLV  
*S. shibatae* 30 EQIKKGEPLVMEIPMRLSNALYDEKRLLLIGEKKLRNFLDNEAKRFMQTVLMASTL

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*Z. mays* 163 HAVLGRGTHVTKRDLFYT-----DVKLFGDQTSDAVLDDVSCMLGCT  
*O. sativa* 169 HAVLRGTHVTKRDLFYT-----DVKLFGDQAQSDAVLDDVSCMLGCT  
*L. japonicus* 149 HQLCLKGTHVTKRDLFYT-----DVKLFGDQTSQSDVLLDDVSCMLGCT  
*A. hypogaea* 144 HQLCLKGTHVTKRDLFYT-----DVKLFGDQTSQSDVLLDDVSCMLGCT  
*V. vinifera* 147 HQLCTKNTHVTKRDLFYT-----DVKLFGDQTSQSDVLLDDVSCMLGCT  
*R. communis* 148 HQLCLKNTHVTKRDLFYT-----DVKLFGDQTSQSDAVLDDVSCMLGCT  
*P. trichocarpa* 150 HQLCLKSITHVTKRDLFYT-----DVKLFGDQTSQSDAVLDDVSCMLGCT  
*A. thaliana* 154 HQLCLRNIHVTKRDLFYT-----DVKLFGDQTSQSDAVLDDVSCMLGCT  
*P. patens* 140 HQLCTKQTHVTKRDLFYT-----DVKLFGDQTSQSDTLLDDVSCMLGCT  
*O. tauri* 149 HGVLSRGIHVTKRDLFYT-----DVKLFRDQKSDAVLDDVSCMLGCT  
*S. shibatae* 90 YDALVSDEYPTIIRDLYRGRKHSLLLKSIENKIVSEENTWDECKESDVIIVDEVFVTSLL

*Z. mays* 206 RSSLHVVAS EKGVVVGRLLFADPDRIDCTRMGVGGKAIPPNI DRVSGEESDALFILLVE  
*O. sativa* 212 RSSLHVVAS EKGVVVGRLLFADPDRIDCTRMGVGGKAIPPNI DRVSGEESDALFILLVE  
*L. japonicus* 192 RSSLNVVAA EKGVVVGRLLFSDNGDMIDCTKMGMGGAIPPNI DRVGDMSDALFILLVE  
*A. hypogaea* 187 RSSLNVVAA EKGVVVGRLLFSDNGDMIDCTKMGMGGAIPPNI DRVGDMSDALFILLVE  
*V. vinifera* 190 RSSLNVVAA EKGVVVGRLLFSDNGDMIDCTKMGMGGAIPPNI DRVGDMSDALFILLVE  
*R. communis* 191 RSSLNVVAA EKGVVVGRLLFSDNGDMIDCTKMGMGGAIPPNI DRVGDMSDALFILLVE  
*P. trichocarpa* 193 RSSLNVVAA EKGVVVGRLLFSDNGDMIDCTKMGMGGAIPPNI DRVGDMSDALFILLVE  
*A. thaliana* 197 RSSLNVVAA EKGVVVGRLLFSDNGDMIDCTKMGMGGAIPPNI DRVGDMSDAFILLVE  
*P. patens* 183 RSSLNVVAS EKGVVVGRLLFIIDPDRIDCTRMGVGGKAIPPNI DRVSGEESDALFILLVE  
*O. tauri* 192 RNSLHVVAS EKGVVVGRLLQYKEDPDRIDCTKMGVGGKAIPPNI DRVDMRTDARFVLLVE  
*S. shibatae* 150 REEMLIISK EKGVVVGRLLRIRSGNDVIDLDSKTCGAYATEPTPDLIDFDVDAEIVLVE

Yoon *et. al.* Figure S5 cont'd

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<i>Z. mays</i>	266	KDAAFMRLAEDRFYNRFPCIIITAKGQPDVATRLFLRRLKVELKLPVLALVSDPYGLKI
<i>O. sativa</i>	272	KDAAFMRLAEDRFYNRFPCIIITAKGQPDVATRLFLRRLKVELKLPVLALVSDPYGLKI
<i>L. japonicus</i>	252	KDAAYMRLAEDRFYNRFPCIIIVTAKGQPDVSTRFLRKMKMEKLPVLALVSDPYGLKI
<i>A. hypogaea</i>	247	KDAAYMRLAEDRFYNRFPCIIIVTAKGQPDVATRLFLRKMKMEKLPVLALVSDPYGLKI
<i>V. vinifera</i>	250	KDAAYTRLAEDRFYNRFPCIIIVTAKGQPDVATRLFLRKMKTEKLPVLALVSDPYGLKI
<i>R. communis</i>	251	KDAAYMRLAEDRFYNRFPCIIIVTAKGQPDVATRLFLRKMKMEKLPVLALVSDPYGLKI
<i>P. trichocarpa</i>	253	KDAAYMRLAEDRFYNRFPCIIIVTAKGQPDVATRLFLRKMKTEKLPVLALVSDPYGLKI
<i>A. thaliana</i>	257	KDAAYMRLAEDRFYNRFPCIIIVTAKGQPDVATRLFLRKMKMEKLPVLALVSDPYGLKI
<i>P. patens</i>	243	KDAAFMRLAEDRFYNRFPCVIIITAKGQPDVATRLFLRKMKTDLKLPVLGLVSDPYGLKI
<i>O. tauri</i>	252	KDAAFMRLAEDRFYNRFPCIIITAKGQPDVATRLFLSKVWRDLKLPVLALVADPYGLKI
<i>S. shibatae</i>	210	KDAVFQQLHRAGFHWKQYKSLIITSAAGQPDRAIRREVRRLNEELKLPVYITLTDADPYGWTI

<i>Z. mays</i>	326	LSVYMCCKSKNMSYDSANLTPDIKWLGVRP----SDDLKRYRVEPQCR----LPMTDHDII
<i>O. sativa</i>	332	LSVYMCCKSKNMSYDSANLTPDIKWPQVGRP----SDDLKRYRVEPQCR----LPMTDHDII
<i>L. japonicus</i>	312	LSVYGCGSKNMSYDSAHLLTPDIKWLGVRP----SDDLKYKIEPQCR----LPMTQDII
<i>A. hypogaea</i>	307	LSVYGCGSKNMSYDSANLTPDIKWLGVRP----SDDLKYKIEPQCR----LPMTQDII
<i>V. vinifera</i>	310	LSVYGCGSKNMSYDSANLTPDIKWLGLRP----SDDLKYSIPEQCR----LPMTQDII
<i>R. communis</i>	311	LSVYGCGSKNMSYDSANLTPDIKWLGLRP----SDDLKYKIEPQCR----LPMTQDII
<i>P. trichocarpa</i>	313	LSVYGCGSKNMSYDSANLTPDIKWLGLRP----SDDLKYKIEPQCR----LPMTQDII
<i>A. thaliana</i>	317	LSVYGCGSKNMSYDSANLTPDIKWLGLRP----SDDLKYKIEPQCR----LPMTQDII
<i>P. patens</i>	303	LSVYMSGSKNMSYDSSNLTPDIKWLGVRP----SDDLKRYKIEPQCR----LPMSDQDII
<i>O. tauri</i>	312	LSVYMQGSKNMAHDSANLTPDIKWLGVRP----SDDLKRFKIEPQCR----LDMSAKDI
<i>S. shibatae</i>	270	FSVFRIGSISISYFSERLATPDAKFLGVSMGDI FGNSRKKPYISEAEKKNYIKAKDADI

<i>Z. mays</i>	377	KVGKELLEEDFVKQNEGWVKELETMLRTKQKAEIQALSSFGFOYLTDEVYLPKLQEQDWE
<i>O. sativa</i>	383	KVGKELLEEDFVKQNEGWVKELETMLRTKQKAEIQALSSFGFOYLTDEVYLPKLQEQDWE
<i>L. japonicus</i>	363	KTGKDLLEEDFVKKNPGWVEELNLMVKTQKAEIQALSIFGFOYLSEVYLPKLQEQDWE
<i>A. hypogaea</i>	358	KTGKDLLEEDFVKKNPGWVEELNLMVKTQKAEIQALSIFGFOYLSEVYLPKLQEQDWE
<i>V. vinifera</i>	361	KTGKDLLEEDFVKKNPGWVEELNLMVKTQKAEIQALSSFGFOYLSEVYLPKLQEQDWE
<i>R. communis</i>	362	KTGKDLLEEDFVKKNPGWVEELNLMVKTQKAEIQALSSFGFOYLSEVYLPKLQEQDWE
<i>P. trichocarpa</i>	364	KTGKDLLEEDFVKKNPGWVEELNLMVKTQKAEIQALSSFGFOYLSEVYLPKLQEQDWE
<i>A. thaliana</i>	368	KTGKDLLEEDFVKKNPGWVEELNLMVKTQKAEIQALSSFGFOYLSEVYLPKLQEQDWE
<i>P. patens</i>	354	KTGKDLLEEDFVKKNVWKELETMLVKTQKAEIQALSSFGFOYLSEVYLPKLQEQDWE
<i>O. tauri</i>	363	ETGQHMINEEDFVKQNEFWVKEINLMLFTKTKAEIQALSAYGFOYLTQVYLPKLQEQDWE
<i>S. shibatae</i>	330	KRAEETKNYEWFKT-KAWQEEINLFLQRRKAKLETEAMASKGLKELAFQYIPEKLTNKDYI

<i>Z. mays</i>	437	-
<i>O. sativa</i>	443	-
<i>L. japonicus</i>	423	-
<i>A. hypogaea</i>	418	-
<i>V. vinifera</i>	421	-
<i>R. communis</i>	-	-
<i>P. trichocarpa</i>	424	-
<i>A. thaliana</i>	428	-
<i>P. patens</i>	414	-
<i>O. tauri</i>	-	-
<i>S. shibatae</i>	389	A

