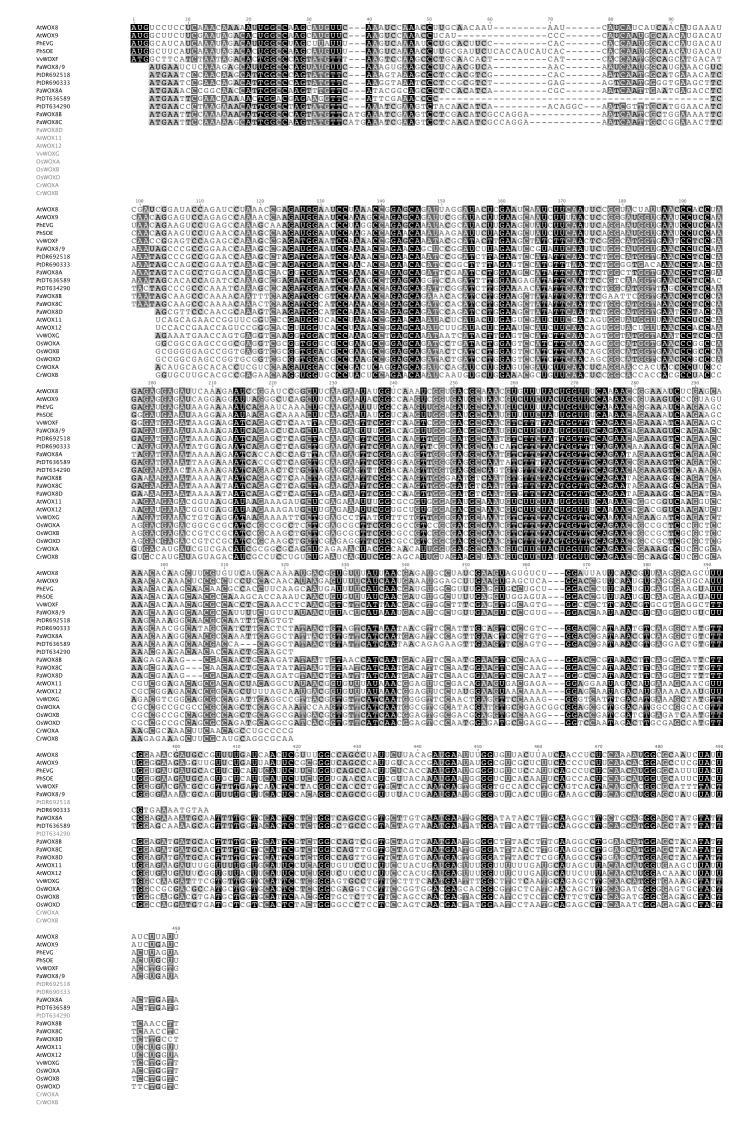


Additional file 2. Phylogenetic tree of the intermediate clade *WOX* genes including EST sequences from *Pinus taeda* (*Pt*). Analyses were done using the BI method described in the methods sections. Exceptions were: amino acid model used was mixed, and burn-in was 1250. Support values are posterior probabilities DNA data above protein data.



	1 10	20	30	40	50	60	70	80	90
AtWOX8	MSSS <mark>NKNWPSM</mark> F-	1	_HHHOHETDRID	NDKDDWWDK	DEOTRILECTEN	SCTINDDDF	FIODIDIDIOE	VCOTCDANU	FVWFONDKCDAK
AtWOX9	MASSNRHWPSMF-								
PhEVG	MASSNRHWPSLF-								
PhSOE	MASSNRHWPSMF-								
VVWOXF	MASSNRHWPSMF-								
PaWOX8/9	M-NLKEHWPSMF-						~ ~	_~	
PtDR692518	M-NPNKHWPSMF-								
PaWOX8A	M-KPGNHWPSLF-								
PtDT634290	M-NPKKHWPSMF-								
PtDT636589	M-NSNKNWTRRF-								
PaWOX8B	M-NSKKHWPSMFM								
PaWOX8C	M-NSKKHWPSMFM								
PaWOX8D									FYWFQNRKARSK
PtDR690333	M-NPNRHWPSMF-	KUNPSASE							
AtWOX11									FYWFQNRRSRSR
AtWOX12									FYWFQNRRSRSR
VvWOXG									FYWFONRRSRSR
OsWOXB									FYWFONRRSRSR
OsWOXD									FYWFQNRRSRSR
OsWOXA									FYWFQNRRSRSR
CrWOXA									FYWFQNRKARAK
CrWOXB									FYWFONRKARAK
3.1.3/12	100 110	120	130	140	150		65		
AtWOX8	HKLR <mark>VHH</mark> KMTVFI	NEMPTEVVS-C	T.FNVKAAFCNDA	VITUSECOP	TT.TDFFCVTVOD	TONGATVVT.	<u> </u>		
AtWOX9	HKLRLLHNIRVFI								
PhEVG	HKOORHLOAMIFI								
PhSOE	HKQRQSTKSTVFI								
VvWOXF	HKQRHLQTSTVFI								
PaWOX8/9	QRQRHFLSITVLI								
PtDR692518	OROROFOC	TID III VII VI V	THE RELATION	VIIII DI OQI		ng ii Citii i i	-		
PaWOX8A	OROROIOAIT V FI	NETPVET.PV-G	PINIKA WEGENA	TITHSSCOP	VI.VNEWGYTI.OG	T.T.OGAMVVT.	Т		
PtDT634290	RROHOLOA	NETT VELL V	T THE KILL OF HIS	THENDOUGI			-		
PtDT636589	QKQR <mark>P</mark> -QAIT <mark>V</mark> FI	NNREVEVEVEV-G	PINVRTVEGAKA	VIVHSSGLP	VI.VNEYGETI.OG	TOHGATYYT.	M		
PaWOX8B	RKR-OLODIIVTI								
PaWOX8C	RKQ-QLQYISVII								
PaWOX8D	RKR-QLQDVTVFI								
PtDR690333	QRHSHLHSITVVI								
AtWOX11	RROROLOAITVFI					LOHGEAYFI	V		
AtWOX12	RRHROLLAMTVFI								
VvWOXG	RRQRQIQAVTVFI								
OsWOXB	RRQRQ <mark>L</mark> QAMTVFI								
OsWOXD	RRQRQMQAITVFI								
OsWOXA	RRARO <mark>L</mark> OOIOVFI								
CrWOXA	RKLQQPAP					~	_		
CrWOXB	RKLRMQAQ								
-:	20 20								