

Table S1. Primers sequences for *PavWOX* genes

Name of the primer	Forward primer sequence (5' -3')	Forward primer sequence (5' -3')
PavWOX4	ATGAAGGTGCACCAAGTTCGC	TCATCTCCCTTCCGGATGTAATGG
PavWOX13A	ATGATGGAGTGGCAGCAGC	TTACCAATCAAAATTTCCAAATCCTAACTC GG

Name of the primer	Forward primer sequence (5' -3')	Forward primer sequence (5' -3')
PavWOX1-q	TTGTCTTGTCTCCTCCTCCTTCTC	GTTGGCATTGGCATTGGCATGG
PavWOX2-q	CAAGGCAAGGCAGAGGCAGAAG	GTTTCATATCCAGAGCCACCAGTGC
PavWOX4-q	TGGAACCCAACGCAAGAACAGATAG	ACTTCGTCCGCCTTACAAACTACAC
PavWOX5-q	GGCGGCAATGGCAATAATGGAAC	GCGTTTCTGTCTTTCTCTGGCTTTG
PavWOX9-q	TCGCTGGGTGTGAAGAAAGAAGTC	CAGAGGAGGATGAGGAGGAAGAAGG
PavWUS-q	AACCTCAACAAACCCAACAACAACC	TGCCTTCAATCTTGCCGTACTGTC
PavWOX13A-q	CCGTCACCTGCTCAACAGGATCTTAC	CTTCTGGCTCTGCTTCTGATTCTCC
PavWOX13B-q	GGGAATGGGAATGGAGGAGTGTTG	GTGCTGGCTCAGTTCAGAGGTTATC

Table S2. Accession numbers, genome loci and protein IDs of WOX homeodomains and full-length proteins

Species	Name of HD/protein	Accession no./locus
<i>Arabidopsis thaliana</i>	AtWUS	NM127349
<i>Arabidopsis thaliana</i>	AtWOX1	AY251394
<i>Arabidopsis thaliana</i>	AtWOX2	AY251392
<i>Arabidopsis thaliana</i>	AtWOX3	AY251397
<i>Arabidopsis thaliana</i>	AtWOX4	AY251396
<i>Arabidopsis thaliana</i>	AtWOX5	AY251398
<i>Arabidopsis thaliana</i>	AtWOX6	AY251399
<i>Arabidopsis thaliana</i>	AtWOX7	NM120659
<i>Arabidopsis thaliana</i>	AtWOX8	AY251400
<i>Arabidopsis thaliana</i>	AtWOX9	AY251401
<i>Arabidopsis thaliana</i>	AtWOX10	AY101923
<i>Arabidopsis thaliana</i>	AtWOX11	AY251402
<i>Arabidopsis thaliana</i>	AtWOX12	AY251403
<i>Arabidopsis thaliana</i>	AtWOX13	AY251404
<i>Arabidopsis thaliana</i>	AtWOX14	NM101922
<i>Picea abies</i>	PaWOX4	JX411948
<i>Populus trichocarpa</i>	PtrWOX1a	XP_024438050
<i>Populus trichocarpa</i>	PtrWOX1b	XP_024442258
<i>Populus trichocarpa</i>	PtrWOX1c	XP_002314802
<i>Populus trichocarpa</i>	PtrWOX2a	XP_024456166
<i>Populus trichocarpa</i>	PtrWOX2b	XP_002313442
<i>Populus trichocarpa</i>	PtrWOX4b	XP_006374903
<i>Populus trichocarpa</i>	PtrWOX4a	XP_002301170
<i>Populus trichocarpa</i>	PtrWOX5a	XP_002312145
<i>Populus trichocarpa</i>	PtrWOX5b	XP_002315173
<i>Populus trichocarpa</i>	PtrWOX8/9a	XP_024454266
<i>Populus trichocarpa</i>	PtrWOX8/9b	XP_024467324
<i>Populus trichocarpa</i>	PtrWOX11/12a	XP_002319197
<i>Populus trichocarpa</i>	PtrWOX11/12b	XP_052305523
<i>Populus trichocarpa</i>	PtrWOX13a	XP_002306432
<i>Populus trichocarpa</i>	PtrWOX13b	XP_002306983
<i>Populus trichocarpa</i>	PtrWOX13c	XP_002301917
<i>Populus trichocarpa</i>	PtrWUSa	XP_006383114
<i>Populus trichocarpa</i>	PtrWUSb	KAI5581353
<i>Picea abies</i>	PaWUS	AGL54197
<i>Picea abies</i>	PaWOX2	CAL18267
<i>Picea abies</i>	PaWOX3	AGL53581
<i>Picea abies</i>	PaWOX4	AGL53582
<i>Picea abies</i>	PaWOX5	AGL53583
<i>Picea abies</i>	PaWOX8A	AGL53584

<i>Picea abies</i>	PaWOX8B	AGL53585
<i>Picea abies</i>	PaWOX8C	AGL53586
<i>Picea abies</i>	PaWOX8D	AGL53587
<i>Picea abies</i>	PaWOX8/9	ADF42580
<i>Picea abies</i>	MA_1910g0010	MA_1910g0010
<i>Picea abies</i>	MA_10344604g0010	MA_10344604g0010
<i>Picea abies</i>	MA_8850184g0010	MA_8850184g0010
<i>Picea abies</i>	MA_747816g0010	MA_747816g0010
<i>Picea abies</i>	MA_59896g0010	MA_59896g0010
<i>Picea abies</i>	MA_129591g0010	MA_129591g0010
<i>Picea abies</i>	MA_42637g0010	MA_42637g0010
<i>Picea abies</i>	MA_116716g0010	MA_116716g0010
<i>Picea abies</i>	MA_10432361g0010	MA_10432361g0010
<i>Picea abies</i>	MA_128969g0010	MA_128969g0010
<i>Prunus persica</i>	Prupe.1G432100.1.p	XP_007223910
<i>Prunus persica</i>	Prupe.2G247100.1.p	XP_007220856
<i>Prunus persica</i>	Prupe.4G055300.1.p	XP_020418316
<i>Prunus persica</i>	Prupe.5G009600.1.p	XP_007209586
<i>Prunus persica</i>	Prupe.5G232600.1.p	XP_020419129
<i>Prunus persica</i>	Prupe.6G080100.1.p	XP_007207641
<i>Prunus persica</i>	Prupe.6G088900.1.p	XP_020422427
<i>Prunus persica</i>	Prupe.7G016600.1.p	XP_007203525
<i>Prunus persica</i>	Prupe.7G167700.1.p	XP_007203178
<i>Prunus persica</i>	Prupe.7G183300.1.p	XP_007203410
<i>Ostreococcus tauri</i>	OtWOX	XM_003082558
<i>Ostreococcus lucimarinus</i>	OIWOX	XM_001420899

Table S3. Conserved motifs of *WOX* genes in sweet cherry.

Number	Name
1	ERLYRSGTRTPSAEQIQKITAQLRQYGKIEGKNVIFYWFQNHKARERQKQR
2	RWNPTPEQIRIL
3	LYVKVMTDEQLELLRKQIAVYASICEQLVEMHKNLTAQQDLAGMRLGNFYCD PFMASGGHKITARQ
4	TLPLFPL
5	ATNHGESEAEPEVDSPKDKKTRPE
6	MMEW
7	FYD
8	VFIDDVA
9	GFC
10	HPPTHLPJNTPVCC