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>PpawOX01

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>PpawOX03

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NVYNWFQNRRSREKKLQAMAMGH

Table 1: Gene and protein sequences of the WOX family in the model genomes *A.*

thaliana*, *O. sativa*, *P. patens* and *O. tauri

Motif	Length	Model genome WOX database		WOX13 OG database		GenBank NR database	
		score drop	hits above the drop	score drop	hits above the drop	score drop	hits above the drop
Homeodomain WOX	60	118.5	32	113.5	33	92.1	92
WOX1 OG	10	12.5	14	a	a	c	c
WUS	8	8.3	2	a	a	c	c
WOX13 OG	39	73.1	7	51.5	33	53	9
LqxG-WOX8 OG	30	69.1	9	a	a	49.5	10
VFIN-WOX8 OG	30	84.5	7	a	a	53.8	9
YxDPL-WOX13 OG	12	27.3	2	8.8	28	7.9	4
ESExE-WOX13 OG	16	19.3	4	15.4	29	6.3	6
Monocotyledon-WOX OG	22	44.3	14	39.4	3	26.3	10
QadDaAVTT-WOX10 OG	22	52.1	2	51.3	3	22.6	2
YfdPM-WOX10 OG	17	35.3	2	22.6	3	26.2	2
LxxGQ-gymnosperm-moss-WOX OG	22	51.8	2	51.1	4	b	b
QdxxxxLL-gymnosperm-moss-WOX OG	41	98.9	2	97.3	4	b	b

Table 2: Specificity and sensitivity of HMM for WOX motifs

Scaffold	homeodomain WOX	WOX1 OG	WUS	WOX13 OG	LQxG WOX8 OG	VFIN WOX8 OG	YxDPL WOX13 OG	ESExE WOX13OG	QAdDaAVTT WOX10 OG	YFdPM WOX10 OG	
AM429035.2	153.6	11.8	-	-	-	-	-	-	a	a	WOX1 OG
AM435207.1	127.0	-	-	-	59.3	66.6	-	-	a	a	WOX8 OG
AM439847.2	147.7	12.2	-	-	-	-	-	-	a	a	WOX1 OG
AM447418.2	139.6	12.7	8.3	-	-	-	-	-	a	a	WUS
AM447494.2	152.4	11.8	-	-	-	-	-	-	a	a	WOX1 OG
AM463144.2	143.9	12.3	-	-	-	-	-	-	a	a	WOX1 OG
AM463736.1	136.0	-	-	74.0	-	-	27.7	24.1	a	a	WOX13 OG
AM473516.1	108.2	-	-	74.8	-	-	17.4*	19.1	a	a	WOX13 OG
AM486367.2	135.9	-	-	72.3	-	-	25.4	24.3	a	a	WOX13 OG
AM488026.2	139.9	-	-	-	51.9	45.7	-	-	a	a	WOX8 OG
AM488389.1	135.0	10.5	-	-	-	-	-	-	a	a	WOX1 OG
contig_1094	143.9	12.4	-	-	-	-	-	-	a	a	WOX1 OG
contig_17869	135.9	-	-	72.3	-	-	25.4	24.3	a	a	WOX13 OG
contig_2321	145.2	10.5	-	-	-	-	-	-	a	a	WOX1 OG
contig_2350	153.6	11.8	-	-	-	-	-	-	a	a	WOX1 OG
contig_24189	129.5	-	-	74.8	-	-	27.7	19.1	a	a	WOX13 OG
contig_24189	136.0	-	-	74.0	-	-	27.7	24.1	a	a	WOX13 OG
contig_29485	127.0	-	-	-	59.3	66.6	-	-	a	a	WOX8 OG
contig_4115	146.0	11.7	-	-	-	-	-	-	a	a	WOX1 OG
contig_648	152.4	11.8	-	-	-	-	-	-	a	a	WOX1 OG
contig_8271	147.7	12.2	-	-	-	-	-	-	a	a	WOX1 OG
contig_9279	139.9	-	-	-	51.9	45.7	-	-	a	a	WOX8 OG

Table 3: *Vitis vinifera* WOX protein prediction with HMM WOX motifs