

Supplementary Table 1. *Dof* genes in the genomes of Arabidopsis, rice and *Populus*.

Arabidopsis	Rice	Populus	Gene model of <i>Populus Dof</i> gene
AT1G07640	Os01g09720	Ptr_DOF01	estExt_fgenes1_pg_v1.C_LG_XV0095
AT1G21340	Os01g15900	Ptr_DOF02	fgenes1_pg.C_LG_II001614
AT1G26790	Os01g17000	Ptr_DOF03	eugene3.00120748
AT1G28310	Os01g48290	Ptr_DOF04	eugene3.00120553
AT1G29160	Os01g55340	Ptr_DOF05	grail3.0071006701
AT1G47655	Os01g64590	Ptr_DOF06	grail3.0035031801
AT1G51700	Os02g15350	Ptr_DOF07	eugene3.00101590
AT1G64620	Os02g45200	Ptr_DOF08	estExt_Genewise1_v1.C_LG_IX4257
AT1G69570	Os02g47810	Ptr_DOF09	estExt_Genewise1_v1.C_LG_II0357
AT2G28510	Os02g49440	Ptr_DOF10	grail3.0027013501
AT2G28810	Os03g07360	Ptr_DOF11	fgenes1_pg.C_LG_IV000504
AT2G34140	Os03g16850	Ptr_DOF12	grail3.0261000401
AT2G37590	Os03g38870	Ptr_DOF13	eugene3.00190459
AT2G46590	Os03g42200	Ptr_DOF14	eugene3.00150271
AT3G21270	Os03g55610	Ptr_DOF15	estExt_Genewise1_v1.C_LG_III1128
AT3G45610	Os03g60630	Ptr_DOF16	eugene3.00050960
AT3G47500	Os04g47990	Ptr_DOF17	eugene3.00130645
AT3G50410	Os04g58190	Ptr_DOF18	grail3.0003061201
AT3G52440	Os05g02150	Ptr_DOF19	grail3.0044005601
AT3G55370	Os05g36900	Ptr_DOF20	grail3.0124004901
AT3G61850	Os06g17410	Ptr_DOF21	eugene3.01240063
AT4G00940	Os07g13260	Ptr_DOF22	eugene3.00070983
AT4G21030	Os07g32510	Ptr_DOF23	eugene3.00060710
AT4G21040	Os07g48570	Ptr_DOF24	grail3.0093009501
AT4G21050	Os08g38220	Ptr_DOF25	fgenes1_pg.C_LG_I000728
AT4G21080	Os09g29960	Ptr_DOF26	eugene3.00040392
AT4G24060	Os10g26620	Ptr_DOF27	estExt_Genewise1_v1.C_400561
AT4G38000	Os10g35300	Ptr_DOF28	fgenes1_pg.C_LG_VII000931
AT5G02460	Os12g38200	Ptr_DOF29	estExt_fgenes1_pg_v1.C_LG_VIII1519
AT5G39660	Os12g39990	Ptr_DOF30	eugene3.00050449
AT5G60200		Ptr_DOF31	fgenes1_pg.C_LG_XVI000552
AT5G60850		Ptr_DOF32	fgenes1_pm.C_LG_VIII000324
AT5G62430		Ptr_DOF33	eugene3.00150562
AT5G62940		Ptr_DOF34	grail3.0030001801
AT5G65590		Ptr_DOF35	fgenes1_pg.C_LG_I001755
AT5G66940		Ptr_DOF36	grail3.0089006501
		Ptr_DOF37	fgenes1_pm.C_LG_V000172
		Ptr_DOF38	estExt_fgenes1_pg_v1.C_LG_IV1063
		Ptr_DOF39	estExt_fgenes1_pg_v1.C_LG_XVII0409
		Ptr_DOF40	grail3.0031019801
		Ptr_DOF41	grail3.0091000801
36*	30	41	

*Number of genes in a plant species.

Supplementary Table 2. Summary of motif distributions in Dof genes in the genomes of Arabidopsis (At), rice (Os) and Populus (Pt).

Motif	At only	Pt only	At & Os only	At & Pt only	Os & Pt only	At & Os & Pt
17					Yes	
29					Yes	
12				Yes		
23				Yes		
28				Yes		
34			Yes			
18		Yes				
20		Yes				
25		Yes				
33		Yes				
37		Yes				
36	Yes					
1						Yes
2						Yes
3						Yes
4						Yes
5						Yes
6						Yes
7						Yes
8						Yes
9						Yes
10						Yes
11						Yes
13						Yes
14						Yes
15						Yes
16						Yes
19						Yes
21						Yes
22						Yes
24						Yes
26						Yes
27						Yes
30						Yes
31						Yes
32						Yes
35						Yes
38						Yes
39						Yes
40						Yes
41						Yes
Total	1	5	1	3	2	29

Supplementary Table 3. Primers for RT-PCR analysis of poplar Dof genes.

Gene	Forward (5' - 3')	Reverse (5' - 3')
Ptr_DOF02	catcaaatacatcggaaggcct	cttcgacggagctgcagatg
Ptr_DOF06	tggcatctaattcatgtggaagg	accttgactatcctgcatagct
Ptr_DOF03	atgggtcttacttactgcaa	gctaaccctgatgatgactcgt
Ptr_DOF33	ttcactccaagtttgcgatgga	gccactatttccatcaaggacat
Ptr_DOF15	atggatactgctcagtggcca	agctgaaagttgggatgtgga
Ptr_DOF25	atggatactgctcagtggcca	tcttgatgaactggcatggga
Ptr_DOF28	ttcaagaactcttaggaggtgc	agggttttgggtggctcttagc
Ptr_DOF30	ttcaagaactcttaggaggtgc	ttgtgccagattttcaacagagg
Ptr_DOF04	gacaccactcaattggaggag	gattatgttgacatgatgctcg
Ptr_DOF14	gcaagacaccactcaattgttg	ccaatctccgagaaaatcccacag
Ptr_DOF08	tagatctctccagctggcagcage	catttgaattccatgccagcct
Ptr_DOF35	atttagatctcccaactggca	gtcagtctgtccactagcaccac
Ptr_DOF38	tgttgagccaaaagaccggct	agtttggccagagctcgaggagg
Ptr_DOF39	atgtcggagccaaaagaccagg	ggagttgctaggtttgagcaagtt
Ptr_DOF22	gccggcagaattatcaagcagcga	cccattaagagccaagaaccagc
Ptr_DOF37	tgccaacagagttatcaagcagtg	gccatgaccacctaccagcac
Ptr_DOF12	cggtctatctagatccaccaa	gctgttgcaccaactgaaggcag
Ptr_DOF29	attccagcctatctaggttcacg	atcggtagctgtggtggtgga
Ptr_DOF24	tggggttgagttctaagcagg	gttgctgagcttgaattggctg
Ptr_DOF41	tggggttgagttctaagcagg	ttggttcaaagttgttgcag
Ptr_DOF01	cttctactcagtggccacagggga	ccagaactcttgagaagctcc
Ptr_DOF40	tggatactgctactcagtgggca	ctgaaccaccaccaactgga
Ptr_DOF07	tttggcgaatggtttggga	agtaggctggatgaagatgctgc
Ptr_DOF32	atgtcagatttggcgataaagc	ctggaggctcttctaagcagggt