Supplementary Data

Moghaddas Sani H., et al., *BioImpacts*, 2018, 8(3), 167-176 doi: 10.15171/bi.2018.19 http://bi.tbzmed.ac.ir/

Expression, purification and DNA-binding properties of zinc finger domains of DOF proteins from *Arabidopsis thaliana*

Hakimeh Moghaddas Sani^{1,2}, Maryam Hamzeh-Mivehroud^{2,3}, Ana P. Silva⁴, James L. Walshe⁴, S. Abolghasem Mohammadi⁵, Mahdyieh Rahbar-Shahrouziasl², Milad Abbasi², Omid Jamshidi², Jason KK Low⁴, Siavoush Dastmalchi^{2,3,6*}, Joel P. Mackay⁴

DOF domain

	· · · · · · · · · · · · · · · · · · ·
Arabidopsis-AtDOF3.4(Q39088)	${\tt QQEQLPCPRCDSSNTKFCYYNNYNFSQPRHFCKACRRYWTHGGTLRDVPVGGGTRK96}$
Arabidopsis-AtDOF5.8(Q9FGD6)	${\tt QQEQLSCPRCESTNTKFCYYNNYNFSQPRHFCKSCRRYWTHGGTLRDIPVGGVSRK97}$
Arabidopsis-AtDOF2.1(Q8LE43)	${\tt GGEAQNCPRCESPNTKFCYYNNYSLSQPRYFCKSCRRYWTKGGTLRNVPVGGGCRR113}$
Maize-MNB1A(P38564)	$\tt VGEGDPCPRCASRDTKFCYYNNYNTSQPRHFCKGCRRYWTKGGTLRNVPVGGGTRK125$
Maize-PBF(024463)	${\tt LPEALKCPRCDSNNTKFCYYNNYSMSQPRYFCKACRRYWTHGGTLRNVPIGGGCRK95}$
Pigeonpea-CcDOF (A0A0K8K646)	${\tt PQQQQKCPRCDSMNTKFCYFNNYSLSQPRHFCKTCKRYWTHGGTFRNIPVGGGSRK102}$
Pigeonpea-CcDOF (A0A0K8K636)	${\tt PQQPQKCPRCDSFNTKFCYYNNYSLSQPRYFCKTCRRYWTQGGTLRNVPVGGGCRK94}$
Pigeonpea-CcDOF (A0A0K8K648)	${\tt NHQALKCPRCDSLNTKFCYYNNYNLSQPRHFCKNCRRYWTKGGVLRNVPVGGGCRK106}$
Sorghum-SbDOF27 (R4NG43)	${\tt EPEGLPCPRCESVNTKFCYYNNYNLSQPRYFCKTCRRYWTRGGALRNVPVGGNTRK104}$
Sorghum-SbDOF24 (E6PBM6)	${\tt LAEALRCPRCNSNNTKFCYYNNYNTMQPRYFCKGCRRYWTHGGTLRNVPVGGGCRK163}$
Sorghum-SbDOF23 (C5WWR6)	PDKILPCPRCNSMDTKFCYYNNYNINQPRHFCKNCQRYWTAGGAMRNVPVGAGRRK107
Sorghum-SbDOF19 (E6PBM6)	${\tt LAEALRCPRCNSNNTKFCYYNNYSTSQPRYFCKGCRRYWTHGGALRNVPVGGGCRK104}$
Tobacco-NaDOF2.5(A0A1J6IT59)	KDQAINCPRCNSTNTKFCYYNNYSLTQPRYFCKTCRRYWTEGGTLRNVPVGGGSRK121
Tobacco-NaDOF5.6(A0A1J6I6T8)	${\tt HDQPLKCPRCDSTHTKFCYYNNYSLTQPRYFCKSCRRYWTKGGTLRNIPVGGGCRK93}$
Tobacco-NaDOF1.6(A0A1J6IGB2)	${\tt EPENLPCPRCDSTNTKFCYYNNYNLSQPRHFCKSCRRYWTRGGTLRNIPVGGGTRK87}$
Tobacco-NaDOF1.7 (A0A1J6K6P9)	${\tt EQEILKCPRCDSINTKFCYYNNYNLSQPRHFCKNCKRYWTKGGTLRNIPVGGASRK106}$
Anthurium-AaDOF2.1(A0A1D1YVB2)	PEEALRCPRCDSTNTKFCYYNNYSLSQPRYFCKGCRRYWTKGGTLRNVPVGGGCRK187
Anthurium-AaDOF4.6(A0A1D1XWV9)	${\tt REQSLGCPRCHSTNTKFCYYNNYSLTQPRYFCKTCRRYWTEGGTLRNVPVGGGRKA147}$
Barley-HvDOF2 (A5HWF1)	$\tt KEKAINCPRCNSTNTKFCYYNNYSLQQPRYFCKTCRRYWTEGGSLRNVPVGGGSRK102$
Barley-HvDOF10 (A5HWF9)	${\tt VEVAPNCPRCDSPNTKFCYYNNYSLSQPRYFCKGCRRYWTKGGSLRNVPVGGGCRK164}$
Barley-HvDOF17 (A5HW93)	${\tt AAAPLPCPRCRSRETKFCYFNNYNVNQPRHFCKACHRYWTAGGALRNVPIGAGRRK207}$
Barley-HvDOF1 (A5HWF0)	${\tt PEPGLKCPRCESTNTKFCYFNNYSLTQPFHFCRTCRRYWTRGGTLRNVPVGGGCRR121}$
Apple-MdDOF(D9ZIX8)	${\tt HEQALKCPRCDSTHTKFCYYNNYSLSQPRYFCKTCRRYWTKGGTLRNIPVGGGCRK108}$
Apple-MdDOF(D9ZIX6)	PEQALKCPRCDSTNTKFCYYNNYSLSQPRYFCKSCRRYWTKGGTLRNVPVGGGCRK88
Apple-MdDOF (D9ZIY6)	KDQALNCPRCNSTTTKFCYYNNYSLSQPRYFCKTCKRYWTEGGSLRNVPVGGGSRK133

¹ Faculty of Advanced Medical Sciences, Tabriz University of Medical Sciences, Tabriz, Iran

²Biotechnology Research Center, Tabriz University of Medical Sciences, Tabriz, Iran

³School of Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran

⁴School of Life and Environmental Sciences, The University of Sydney, NSW 2006, Australia

⁵School of Agriculture, University of Tabriz, Tabriz, Iran

⁶Faculty of Pharmacy, Near East University, POBOX:99138, Nicosia, North Cyprus, Mersin 10, Turkey

Figure S1. Sequence alignment of selected DOF-ZF domains. A) Alignment of the DOF-ZF domains of *A. thaliana* DOF3.4, DOF5.8, and DOF2.1 with a number of DOF domains from other species shows high sequence similarity across the DOF family. The UniProt ID of each protein sequence is given inside the bracket.