

Table S1. Function annotations of the motifs

Motif	Length	Database Members Hit	InterPro	Function Description
			Entry	
MOTIF1	41	HMMPfam: PF00614 HMMPanther: PTHR18896 ProfileScan: PS50035	IPR001736	Phospholipase D /Transphosphatidylase
MOTIF2	49	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF3	41	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF4	41	Superfamily:SSF56024	IPR015679	Phospholipase D
MOTIF5	29	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF6	31	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF7	41	HMMPanther:PTHR18896 HMMPfam:PF12357	IPR015679	Phospholipase D
MOTIF8	29	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF9	41	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF10	29	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF11	41	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF12	40	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF13	21	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF14	21	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF15	21	HMMPanther:PTHR18896 HMMPfam:PF00614	IPR001736	Phospholipase D /Transphosphatidylase
MOTIF16	23	HMMPfam:PF12357 HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF17	21	HMMPfam:PF00168 HMMPanther:PTHR18896	IPR000008 IPR015679	calcium-dependent membrane targeting/Phospholipase D
MOTIF18	80	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF19	15	HMMPfam:PF12357 HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF21	15	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF22	29	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF23	57	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF24	15	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF26	41	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF28	34	HMMPanther:PTHR18896	IPR015679	Phospholipase D
MOTIF30	45	HMMPanther:PTHR18896 SignalPHMM:SignalP	IPR015679	Phospholipase D/Signal