

TaPDIL2	29	AVPTSNPDID	LEYLIKNAGL	DDPTPATTAT	DPEDDGAPDF	PGLDADYDDE	DLFGDDDGP	88
GmPDIL-2	26	--LTDDEDLG	F-----L	DEPS-----	-----AAPEH	G---HYHDDD	ANFGDFEEDP	61
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TaPDIL2	89	EDSSHPSAAD	EAHVLLTAA	NFTSVALAARR	HVMV E FYAPW	CGHORALAPH	YAAAASALAE	148
GmPDIL-2	62	EAYKQP-EVD	EKDVVILKEK	NFTDTVKSNR	FVMV E FYAPW	CGHQQALAPE	YAAAATELKKG	120
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TaPDIL2	149	QGVDAVLAKV	DATEDHDLAQ	AHGIVQGYPTL	LFFIDGVPRD	YAG E TKDAI	VAWISKKLGP	208
GmPDIL-2	121	E--DVILAKV	DATEENELAQ	QYDVQGFPTV	YFFVDGHIKP	YNG E TKDAI	MTWIKKKIGP	178
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TaPDIL2	209	AVQNLTTADE	AEKIVTGDDV	AVLAYLDHLS	GAHSDELAAA	SRLEDTISFY	QTSPDVAKL	268
GmPDIL-2	179	GIYNLTTVED	AQRILTNETK	VVLGFLNSLV	GPESEELAAA	SRLEDDVNFY	QTVPDVAKL	238
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TaPDIL2	269	FHIDPEAKRP	SVVLLKKEEE	KLTVDGEFR	ASAIAEFVSA	NKIPLITTLT	QETAPAIFDN	328
GmPDIL-2	239	FHIDPDVKRP	ALILVKKEEE	KLNHFDGKFE	KSEIADFVFS	NKLPLVTIFT	RESAPSVFEN	298
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TaPDIL2	329	PIKKQILLFA	VAKESPQFLP	IIKETAKSFK	GKLLFVVER	DNEEVGEPVA	NYFGIAGQET	388
GmPDIL-2	299	PIKKQILLFA	TSNDSEKLI	AFKEAKSFK	GKLIFVYVEM	DNEDVGKPV	EYFGISGNAP	358
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TaPDIL2	389	TVLAYTGned	AKKFFFSGEI	SLDTIKEFAQ	DFLEDKLTPS	YKSDPVPEsND	EDVKVVVGK	448
GmPDIL-2	359	KVLGYTGND	GKKFVLDGEV	TADKIKAFGD	DFLEDKLKPF	YKSDPVPEsND	GDVKIVVGN	418
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TaPDIL2	449	SLDQIVLDES	KDVL I E V YAP	WCGHQQSLEP	IYNKLAKYLR	GIDSLVIAKM	DGTNNNEHPRA	508
GmPDIL-2	419	NFDEIVLDES	KDVL I E I YAP	WCGHQQALEP	IYDKLAKHLR	NIESLVIAKM	DGTTNEHPRA	478
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TaPDIL2	509	KPDGFPTILF	YPAGKKSFP	ITFEG I RTVV	EMYKFLKKHA	AIPFKLKRPD	SSAARTDGP	568
GmPDIL-2	479	KPDGFPTLLF	FPAGNKSFP	ITVDT I RTVV	AFYKFLKKHA	SIPFKLQKPT	S---TSDAKG	535
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TaPDIL2	569	STAEGEKSSG	SNPKDEL	585				
GmPDIL-2	536	SSDAKE-SQS	SDVKDEL	551				
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Figure S4. Alignment of the amino acid sequences of TaPDIL2 and soybean GmPDIL-2. The active center CGHC motifs (shaded in black), conserved arginines (box with straight lines), and glutamic acid (boxes with dotted lines) are indicated. Asterisks indicate positions that have a single, fully conserved residue. Colon indicates conservation between groups of strongly similar properties. Period indicates conservation between groups of weakly similar properties.