

TaPDIL1Aα	1	<u>MAISKVWISL</u>	<u>LLALAVVLSA</u>	<u>PAARAEEAAA</u>	<u>AEEAAAPEA</u>	<u>VLTLHADNFD</u>	<u>DAIAKHFFIL</u>	60
TaPDIL1Aβ	1	<u>MAISKVWISL</u>	<u>LLALAVVLSA</u>	<u>PAAS-----</u>	<u>-----EA</u>	<u>VLTLHADNFD</u>	<u>DAIAKHFFIL</u>	46
TaPDIL1Aγ	1	<u>MAISKVWISL</u>	<u>LLAL-----</u>	<u>-----</u>	<u>-----</u>	<u>--TLHADNFD</u>	<u>DAIAKHFFIL</u>	32
TaPDIL1Aδ	1	<u>MAISKVWISL</u>	<u>LL-----</u>	<u>-----</u>	<u>-----</u>	<u>--TLHADNFD</u>	<u>DAIAKHFFIL</u>	30
TaPDIL1B	1	<u>MAISKVWISL</u>	<u>LLALAVVLSA</u>	<u>PAARAEEAAA</u>	<u>AEEAAAPEA</u>	<u>VLTLHADNFD</u>	<u>DAIAKHFFIL</u>	60
		*****	**			*****	*****	
TaPDIL1Aα	61	<u>VEFYAPWCGH</u>	<u>CKSLAPEYEK</u>	<u>AAQLLSKHDP</u>	<u>AIVLAKVDAN</u>	<u>DEKNKPLAGK</u>	<u>YEVQGFPTLK</u>	120
TaPDIL1Aβ	47	<u>VEFYAPWCGH</u>	<u>CKSLAPEYEK</u>	<u>AAQLLSKHDP</u>	<u>AIVLAKVDAN</u>	<u>DEKNKPLAGK</u>	<u>YEVQGFPTLK</u>	106
TaPDIL1Aγ	33	<u>VEFYAPWCGH</u>	<u>CKSLAPEYEK</u>	<u>AAQLLSKHDP</u>	<u>AIVLAKVDAN</u>	<u>DEKNKPLAGK</u>	<u>YEVQGFPTLK</u>	92
TaPDIL1Aδ	31	<u>VEFYAPWCGH</u>	<u>CKSLAPEYEK</u>	<u>AAQLLSKHDP</u>	<u>AIVLAKVDAN</u>	<u>DEKNKPLAGK</u>	<u>YEVQGFPTLK</u>	90
TaPDIL1B	61	<u>VEFYAPWCGH</u>	<u>CKSLAPEYEK</u>	<u>AAQLLSKHDP</u>	<u>AIVLAKVDAN</u>	<u>DEKNKPLAGK</u>	<u>YEVQGFPTLK</u>	120
		*****	*****	*****	*****	*****	*****	
TaPDIL1Aα	121	<u>IFRNGGKNIQ</u>	<u>EYKGRFAEAG</u>	<u>IVEYLKKQVG</u>	<u>PASKEIKAPE</u>	<u>DATYLEDGKI</u>	<u>HIVGVTFEFS</u>	180
TaPDIL1Aβ	107	<u>IFRNGGKNIQ</u>	<u>EYKGRFAEAG</u>	<u>IVEYLKKQVG</u>	<u>PASKEIKAPE</u>	<u>DATYLEDGKI</u>	<u>HIVGVTFEFS</u>	166
TaPDIL1Aγ	93	<u>IFRNGGKNIQ</u>	<u>EYKGRFAEAG</u>	<u>IVEYLKKQVG</u>	<u>PASKEIKAPE</u>	<u>DATYLEDGKI</u>	<u>HIVGVTFEFS</u>	152
TaPDIL1Aδ	91	<u>IFRNGGKNIQ</u>	<u>EYKGRFAEAG</u>	<u>IVEYLKKQVG</u>	<u>PASKEIKAPE</u>	<u>DATYLEDGKI</u>	<u>HIVGVTFEFS</u>	150
TaPDIL1B	121	<u>IFRNGGKNIQ</u>	<u>EYKGRFAEAG</u>	<u>IVEYLKKQVG</u>	<u>PASKEIKAPE</u>	<u>DATYLEDGKI</u>	<u>HIVGVTFEFS</u>	180
		*****	*****	*****	*****	*****	*****	
TaPDIL1Aα	181	<u>GTEFTNFLEL</u>	<u>AEKLRSDYDF</u>	<u>GHTVHANHLP</u>	<u>RGDAEVERPL</u>	<u>VRLFKPFDEL</u>	<u>VVDSKDFDVS</u>	240
TaPDIL1Aβ	167	<u>GTEFTNFLEL</u>	<u>AEKLRSDYDF</u>	<u>GHTVHANHLP</u>	<u>RGDAEVERPL</u>	<u>VRLFKPFDEL</u>	<u>VVDSKDFDVS</u>	226
TaPDIL1Aγ	153	<u>GTEFTNFLEL</u>	<u>AEKLRSDYDF</u>	<u>GHTVHANHLP</u>	<u>RGDAEVERPL</u>	<u>VRLFKPFDEL</u>	<u>VVDSKDFDVS</u>	212
TaPDIL1Aδ	151	<u>GTEFTNFLEL</u>	<u>AEKLRSDYDF</u>	<u>GHTVHANHLP</u>	<u>RGDAEVERPL</u>	<u>VRLFKPFDEL</u>	<u>VVDSKDFDVS</u>	210
TaPDIL1B	181	<u>GTEFTNFLEV</u>	<u>AEKLRSDYDF</u>	<u>GHTVHANHLP</u>	<u>RGDAEVERPL</u>	<u>VRLFKPFDEL</u>	<u>VVDSKDFDVS</u>	240
		*****	*****	*****	*****	*****	*****	
TaPDIL1Aα	241	<u>ALEKFI DASS</u>	<u>TPKVVTFDKN</u>	<u>PDNHPYLLKY</u>	<u>FQSNAPKAML</u>	<u>FLNFSTGPFE</u>	<u>SFKSAYYGAV</u>	300
TaPDIL1Aβ	227	<u>ALEKFI DASS</u>	<u>TPKVVTFDKN</u>	<u>PDNHPYLLKY</u>	<u>FQSNAPKAML</u>	<u>FLNFSTGPFE</u>	<u>SFKSAYYGAV</u>	286
TaPDIL1Aγ	213	<u>ALEKFI DASS</u>	<u>TPKVVTFDKN</u>	<u>PDNHPYLLKY</u>	<u>FQSNAPKAML</u>	<u>FLNFSTGPFE</u>	<u>SFKSAYYGAV</u>	272
TaPDIL1Aδ	211	<u>ALEKFI DASS</u>	<u>TPKVVTFDKN</u>	<u>PDNHPYLLKY</u>	<u>FQSNAPKAML</u>	<u>FLNFSTGPFE</u>	<u>SFKSAYYGAV</u>	270
TaPDIL1B	241	<u>ALEKFI EASS</u>	<u>TPKVVTFDKN</u>	<u>PDNHPYLLKF</u>	<u>FQSNAPKAML</u>	<u>FLNFSTGPFE</u>	<u>SFKKAYYGAV</u>	300
		*****	*****	*****	*****	*****	*****	
TaPDIL1Aα	301	<u>EEFSGKDVKF</u>	<u>LIGDIEASQG</u>	<u>AFQYFGLKED</u>	<u>QAPLILIQDS</u>	<u>DSKKFLKEQV</u>	<u>EAGQIVAWLK</u>	360
TaPDIL1Aβ	287	<u>EEFSGKDVKF</u>	<u>LIGDIEASQG</u>	<u>AFQYFGLKED</u>	<u>QAPLILIQDS</u>	<u>DSKKFLKEQV</u>	<u>EAGQIVAWLK</u>	346
TaPDIL1Aγ	273	<u>EEFSGKDVKF</u>	<u>LIGDIEASQG</u>	<u>AFQYFGLKED</u>	<u>QAPLILIQDS</u>	<u>DSKKFLKEQV</u>	<u>EAGQIVAWLK</u>	332
TaPDIL1Aδ	271	<u>EEFSGKDVKF</u>	<u>LIGDIEASQG</u>	<u>AFQYFGLKED</u>	<u>QAPLILIQDS</u>	<u>DSKKFLKEQV</u>	<u>EAGQIVAWLK</u>	330
TaPDIL1B	301	<u>EEFSGKDVKF</u>	<u>LIGDIEASQG</u>	<u>AFQYFGLKED</u>	<u>QAPLILIQDS</u>	<u>DSKKFLKEQV</u>	<u>EAGQIVAWLK</u>	360
		*****	*****	*****	*****	*****	*****	
TaPDIL1Aα	361	<u>DYFDGKLTPE</u>	<u>RKSEPIPEAN</u>	<u>NEPVKVVVAD</u>	<u>NIHDVVFVKS</u>	<u>KNVLIETFPYAP</u>	<u>WCGHCCKKLAP</u>	420
TaPDIL1Aβ	347	<u>DYFDGKLTPE</u>	<u>RKSEPIPEAN</u>	<u>NEPVKVVVAD</u>	<u>NIHDVVFVKS</u>	<u>KNVLIETFPYAP</u>	<u>WCGHCCKKLAP</u>	406
TaPDIL1Aγ	333	<u>DYFDGKLTPE</u>	<u>RKSEPIPEAN</u>	<u>NEPVKVVVAD</u>	<u>NIHDVVFVKS</u>	<u>KNVLIETFPYAP</u>	<u>WCGHCCKKLAP</u>	392
TaPDIL1Aδ	331	<u>DYFDGKLTPE</u>	<u>RKSEPIPEAN</u>	<u>NEPVKVVVAD</u>	<u>NIHDVVFVKS</u>	<u>KNVLIETFPYAP</u>	<u>WCGHCCKKLAP</u>	390
TaPDIL1B	361	<u>DYFDGKLTPE</u>	<u>RKSEPIPEAN</u>	<u>NEPVKVVVAD</u>	<u>NVHDVVFVKS</u>	<u>KNVLIETFPYAP</u>	<u>WCGHCCKKLAP</u>	420
		*****	*****	*****	*	*****	*****	
TaPDIL1Aα	421	<u>ILDEAAATLQ</u>	<u>SEEDVVI AKI</u>	<u>DATANDVPGE</u>	<u>FDVQGYPTLY</u>	<u>FVTPSGKKVS</u>	<u>YEGGRTADEI</u>	480
TaPDIL1Aβ	407	<u>ILDEAAATLQ</u>	<u>SEEDVVI AKI</u>	<u>DATANDVPGE</u>	<u>FDVQGYPTLY</u>	<u>FVTPSGKKVS</u>	<u>YEGGRTADEI</u>	466
TaPDIL1Aγ	393	<u>ILDEAAATLQ</u>	<u>SEEDVVI AKI</u>	<u>DATANDVPGE</u>	<u>FDVQGYPTLY</u>	<u>FVTPSGKKVS</u>	<u>YEGGRTADEI</u>	452
TaPDIL1Aδ	391	<u>ILDEAAATLQ</u>	<u>SEEDVVI AKI</u>	<u>DATANDVPGE</u>	<u>FDVQGYPTLY</u>	<u>FVTPSGKKVS</u>	<u>YEGGRTADEI</u>	450
TaPDIL1B	421	<u>ILDEAAATLQ</u>	<u>SEEDVVI AKM</u>	<u>DATANDVPSE</u>	<u>FDVQGYPTLY</u>	<u>FVTPSGKKVS</u>	<u>YEGGRTADEI</u>	480
		*****	*****	*****	*	*****	*****	
TaPDIL1Aα	481	<u>VDYIKKNKET</u>	<u>AGQAAAAATE</u>	<u>KAAEPAATEP</u>	<u>LKDEL</u>	<u>515</u>		
TaPDIL1Aβ	467	<u>VDYIKKNKET</u>	<u>AGQAAAAATE</u>	<u>KAAEPAATEP</u>	<u>LKDEL</u>	<u>501</u>		
TaPDIL1Aγ	453	<u>VDYIKKNKET</u>	<u>AGQAAAAATE</u>	<u>KAAEPAATEP</u>	<u>LKDEL</u>	<u>487</u>		
TaPDIL1Aδ	451	<u>VDYIKKNKET</u>	<u>AGQAAAAATE</u>	<u>KAAEPAATEP</u>	<u>LKDEL</u>	<u>485</u>		
TaPDIL1B	481	<u>VDYIKKNKET</u>	<u>AGQ--AATE</u>	<u>KAAEPAATEP</u>	<u>LKDEL</u>	<u>512</u>		
		*****	**	*****	*****	*****	*****	

Figure S1. Alignment of amino acid sequences of TaPDIL1Aα, TaPDIL1Aβ, TaPDIL1Aγ, TaPDIL1Aδ, and TaPDIL1B. The putative signal peptide (underlined), active center CGHC motifs (shaded in black), N-glycosylation consensus asparagine (shaded in gray), conserved arginine (box with straight lines), and glutamic acid (box with dotted lines) are indicated. Asterisks indicate positions that have a single, fully conserved residue.