

**Table S2.** Identification of PfMLP25-interacting proteins.

#GeneID	nr_annotation
Paulownia_LG5G000013.1	peroxidase 47 [Sesamum indicum]
Paulownia_LG3G001405.1	hypothetical protein MIMGU_mgv1a006323mg [Erythranthe guttata]
Paulownia_LG9G000247.1	ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial [Sesamum indicum]
Paulownia_LG15G000502.1	dehydrin ERD14-like [Sesamum indicum]
Paulownia_LG9G001103.1	copper chaperone [Plantago major]
Paulownia_WTDBG01685G000003.1	protein transport protein SEC31 homolog B [Sesamum indicum]
Paulownia_LG0G000726.1	protein transport protein SEC31 homolog B [Sesamum indicum]
Paulownia_CONTIG01576G000018.1	33 kDa ribonucleoprotein, chloroplastic [Sesamum indicum]
Paulownia_LG18G000338.1	probable histone H2A variant 3 [Sesamum indicum]
Paulownia_CONTIG01580G000085.1	histone H2A-like [Sesamum indicum]
Paulownia_LG11G000432.1	hypothetical protein MIMGU_mgv1a015106mg [Erythranthe guttata]
Paulownia_LG2G000418.1	apolipoprotein D-like [Sesamum indicum]
Paulownia_LG0G001228.1	stromal 70 kDa heat shock-related protein, chloroplastic-like [Sesamum indicum]
Paulownia_LG3G000489.1	stromal 70 kDa heat shock-related protein, chloroplastic [Sesamum indicum]
Paulownia_LG6G000141.1	haloacid dehalogenase-like hydrolase domain-containing protein At3g48420 [Sesamum indicum]
Paulownia_CONTIG01580G000084.1	Histone H2B [Medicago truncatula]
novel_model_1898_5afbe647	histone H2B-like [Sesamum indicum]
Paulownia_TIG00001202G000005.1	Histone H2B [Medicago truncatula]
Paulownia_CONTIG01606G000004.1	histone H2B-like [Sesamum indicum]
Paulownia_LG4G001348.1	probable histone H2B.1 [Nicotiana glauca]
Paulownia_LG19G000201.1	histone H2B-like [Sesamum indicum]
Paulownia_LG12G000642.1	Histone H2B [Medicago truncatula]
Paulownia_CONTIG01606G000003.1	histone H2B-like [Sesamum indicum]
Paulownia_WTDBG01886G000002.1	Recombinase A protein (RecA) [Blastocystis hominis]
Paulownia_LG8G001873.1	centromere/kinetochore protein zw10 homolog isoform X2 [Sesamum indicum]
Paulownia_LG6G000049.1	hypothetical protein MIMGU_mgv1a007981mg [Erythranthe guttata]
Paulownia_LG0G001914.1	LOW QUALITY PROTEIN: WD-40 repeat-containing protein MSI3 [Sesamum indicum]
Paulownia_WTDBG00024_ERROPOS5331222G000084.1	S-adenosylmethionine synthase 3 [Sesamum indicum]
Paulownia_LG10G001033.1	hypothetical protein MIMGU_mgv1a014564mg [Erythranthe guttata]
Paulownia_WTDBG00068_ERROPOS550008+G000042.1	putative late blight resistance protein homolog R1A-10 [Sesamum indicum]
novel_model_22_5afbe647	uncharacterized protein LOC105174256 [Sesamum indicum]
Paulownia_LG7G001052.1.2.5afcldc5	uncharacterized protein LOC105156622 [Sesamum indicum]
Paulownia_LG11G000711.1	uncharacterized protein DDB_G0290685 [Sesamum indicum]
Paulownia_LG5G001638.1	glyceraldehyde-3-phosphate dehydrogenase, cytosolic-like [Sesamum indicum]
novel_model_1692_5afbe647	hypothetical protein MIMGU_mgv1a007931mg [Erythranthe guttata]
Paulownia_LG5G000818.1	hypothetical protein MIMGU_mgv1a012403mg [Erythranthe guttata]
Paulownia_LG10G001232.1	hypothetical protein MIMGU_mgv1a011534mg [Erythranthe guttata]
Paulownia_LG15G001224.1	glyceraldehyde-3-phosphate dehydrogenase B, chloroplastic [Prunus mume]
Paulownia_TIG00007408G000001.1	Atp1, partial (mitochondrion) [Calceolaria integrifolia]
Paulownia_WTDBG01062G000002.1	glyceraldehyde-3-phosphate dehydrogenase A, chloroplastic [Sesamum indicum]
Paulownia_LG10G000782.1	glyceraldehyde-3-phosphate dehydrogenase B, chloroplastic [Prunus mume]
Paulownia_WTDBG01062G000004.1	glyceraldehyde-3-phosphate dehydrogenase A, chloroplastic [Sesamum indicum]
novel_model_1873_5afbe647	glyceraldehyde-3-phosphate dehydrogenase A, chloroplastic [Sesamum indicum]
Paulownia_LG11G000715.1	probable xyloglucan endotransglucosylase/hydrolase protein 7 [Sesamum indicum]
Paulownia_LG14G000725.1	glyceraldehyde-3-phosphate dehydrogenase, cytosolic [Sesamum indicum]
novel_model_605_5afbe647	glyceraldehyde-3-phosphate dehydrogenase A, chloroplastic [Sesamum indicum]
Paulownia_LG6G000755.1	glyceraldehyde-3-phosphate dehydrogenase C [Scoparia dulcis]
Paulownia_LG7G000077.1	glyceraldehyde-3-phosphate dehydrogenase, cytosolic [Sesamum indicum]
Paulownia_LG11G001138.1	glyceraldehyde-3-phosphate dehydrogenase, cytosolic-like [Sesamum indicum]
Paulownia_LG8G000949.1	porphobilinogen deaminase, chloroplastic [Sesamum indicum]
Paulownia_LG16G000420.1	chlorophyll a-b binding protein 8, chloroplastic [Sesamum indicum]
Paulownia_WTDBG01049G000002.1	hypothetical protein MIMGU_mgv1a011534mg [Erythranthe guttata]
Paulownia_LG10G000848.1	ATP synthase delta chain, chloroplastic-like [Sesamum indicum]
Paulownia_LG10G000229.1	photosystem I reaction center subunit II, chloroplastic-like [Sesamum indicum]
Paulownia_LG12G001171.1	ruBisCO large subunit-binding protein subunit beta, chloroplastic [Sesamum indicum]
novel_model_80_5afbe647	hypothetical protein MIMGU_mgv1a007931mg [Erythranthe guttata]
Paulownia_LG16G000816.1	porphobilinogen deaminase, chloroplastic [Sesamum indicum]
Paulownia_LG17G000137.1	major allergen Pru av 1-like [Sesamum indicum]
Paulownia_LG14G000087.1	fruit protein pKIWI502-like [Sesamum indicum]
Paulownia_LG14G000035.1	kirola-like [Sesamum indicum]
Paulownia_LG17G000646.1	major allergen Pru ar 1-like [Sesamum indicum]
Paulownia_LG17G000653.1	major allergen Pru ar 1-like [Sesamum indicum]

Paulownia\_LG17G000645.1 major allergen Pru ar 1-like [Sesamum indicum]  
 Paulownia\_LG15G000294.1 hypothetical protein MIMGU\_mgv1a006830mg [Erythranthe guttata]  
 Paulownia\_LG6G000950.1 hypothetical protein MIMGU\_mgv1a011200mg [Erythranthe guttata]  
 Paulownia\_LG11G000586.1 hypothetical protein MIMGU\_mgv1a012403mg [Erythranthe guttata]  
 novel\_model\_358\_5afbe647 hypothetical protein MIMGU\_mgv1a011534mg [Erythranthe guttata]  
 novel\_model\_537\_5afbe647 DNA replication licensing factor MCM6 [Sesamum indicum]  
 Paulownia\_TIG00000033G000013.1 Quinone oxidoreductase-like protein [Morus notabilis]  
 Paulownia\_TIG00000033G000014.1 Quinone oxidoreductase-like protein [Morus notabilis]  
 Paulownia\_LG19G000273.1 copper chaperone [Jatropha curcas]  
 Paulownia\_LG11G000717.1 lysosomal Pro-X carboxypeptidase [Sesamum indicum]  
 novel\_model\_701\_5afbe647 hypothetical protein MIMGU\_mgv1a015417mg [Erythranthe guttata]  
 novel\_model\_1122\_5afbe647 hypothetical protein MIMGU\_mgv1a015417mg [Erythranthe guttata]  
 Paulownia\_LG14G000747.1 40S ribosomal protein SA-like [Sesamum indicum]  
 Paulownia\_LG5G000624.1 photosystem I reaction center subunit N, chloroplastic [Sesamum indicum]  
 Paulownia\_LG12G000187.1 probable histone H2A variant 3 [Sesamum indicum]  
 Paulownia\_LG7G001468.1 probable histone H2A variant 3 [Sesamum indicum]  
 Paulownia\_LG15G000051.1 CDPK-related kinase 1-like [Sesamum indicum]  
 Paulownia\_LG4G000029.1 S-adenosylmethionine synthase 2 [Nelumbo nucifera]  
 Paulownia\_LG3G000579.1 S-adenosylmethionine synthase 1-like [Sesamum indicum]  
 Paulownia\_LG17G000024.1 S-adenosylmethionine synthase 2 [Sesamum indicum]  
 Paulownia\_LG10G000015.1 S-adenosylmethionine synthase 2 [Sesamum indicum]  
 Paulownia\_LG3G000618.1 S-adenosylmethionine synthase 1-like [Sesamum indicum]  
 novel\_model\_665\_5afbe647 CDPK-related kinase 1-like [Sesamum indicum]  
 novel\_model\_1797\_5afbe647 33 kDa ribonucleoprotein, chloroplastic [Sesamum indicum]  
 Paulownia\_CONTIG01578G000026.1 33 kDa ribonucleoprotein, chloroplastic [Sesamum indicum]  
 Paulownia\_LG16G000260.1 hypothetical protein MIMGU\_mgv1a003720mg [Erythranthe guttata]  
 Paulownia\_LG4G001436.1 unnamed protein product [Coffea canephora]  
 Paulownia\_TIG00002321G000016.1 hypothetical protein MIMGU\_mgv1a010546mg [Erythranthe guttata]  
 Paulownia\_LG14G000881.1 hypothetical protein MIMGU\_mgv1a006041mg [Erythranthe guttata]  
 Paulownia\_TIG00017490G000139.1 28 kDa ribonucleoprotein, chloroplastic-like [Sesamum indicum]  
 Paulownia\_LG5G001603.1 28 kDa ribonucleoprotein, chloroplastic-like [Sesamum indicum]  
 Paulownia\_LG19G000168.1 amidase 1 isoform X1 [Sesamum indicum]  
 Paulownia\_LG14G000403.1 intracellular ribonuclease LX-like [Sesamum indicum]  
 Paulownia\_LG0G001934.1 uncharacterized protein LOC105169808 [Sesamum indicum]  
 Paulownia\_LG10G001360.1 psbP domain-containing protein 4, chloroplastic [Sesamum indicum]  
 Paulownia\_LG8G000003.1 coproporphyrinogen-III oxidase 1, chloroplastic [Sesamum indicum]  
 Paulownia\_LG15G000451.1 uncharacterized protein LOC105179348 isoform X3 [Sesamum indicum]  
 Paulownia\_LG8G001301.1 chlorophyll a-b binding protein 21, chloroplastic-like [Sesamum indicum]  
 Paulownia\_LG8G001974.1 chlorophyll a-b binding protein 5, chloroplastic [Sesamum indicum]  
 Paulownia\_LG8G000298.1 chlorophyll a-b binding protein 21, chloroplastic [Sesamum indicum]  
 Paulownia\_LG16G001287.1 chlorophyll a-b binding protein of LHCII type 1-like [Musa acuminata subsp. malaccensis]  
 Paulownia\_LG4G000321.1 RAN GTPase-activating protein 1 [Sesamum indicum]  
 Paulownia\_LG8G000155.1 reticuline oxidase-like protein [Sesamum indicum]  
 Paulownia\_LG18G000913.1 primary amine oxidase-like [Sesamum indicum]  
 novel\_model\_622\_5afbe647 hypothetical protein MIMGU\_mgv1a015105mg [Erythranthe guttata]  
 Paulownia\_LG17G000186.1 hypothetical protein MIMGU\_mgv1a015105mg [Erythranthe guttata]  
 Paulownia\_LG13G000696.1 hypothetical protein MIMGU\_mgv1a015105mg [Erythranthe guttata]  
 Paulownia\_WTDBG01390G000004.1 hypothetical protein MIMGU\_mgv1a006687mg [Erythranthe guttata]  
 Paulownia\_WTDBG01390G000003.1 hypothetical protein MIMGU\_mgv1a006687mg [Erythranthe guttata]  
 Paulownia\_LG8G000050.1 protein CHROMATIN REMODELING 4 [Sesamum indicum]  
 Paulownia\_LG15G001218.1 U-box domain-containing protein 44 [Sesamum indicum]  
 novel\_model\_293\_5afbe647 protein NLP9 [Sesamum indicum]  
 Paulownia\_LG10G000789.1 U-box domain-containing protein 44 [Sesamum indicum]  
 Paulownia\_LG10G000616.1 protein NLP9 [Sesamum indicum]  
 Paulownia\_LG7G000666.1 cell division cycle and apoptosis regulator protein 1 isoform X2 [Sesamum indicum]  
 Paulownia\_LG3G000906.1 sphingoid long-chain bases kinase 1-like [Sesamum indicum]  
 Paulownia\_LG0G001260.1 protein EI24 homolog isoform X1 [Sesamum indicum]  
 Paulownia\_LG0G000795.1 sphingoid long-chain bases kinase 1-like [Sesamum indicum]  
 Paulownia\_LG0G000737.1 cytokinin dehydrogenase 6-like [Sesamum indicum]  
 Paulownia\_LG14G000388.1 uncharacterized protein LOC105160078, partial [Sesamum indicum]  
 Paulownia\_LG5G001321.1 hypothetical protein MIMGU\_mgv1a017954mg, partial [Erythranthe guttata]  
 novel\_model\_1347\_5afbe647 pentatricopeptide repeat-containing protein At1g62680, mitochondrial-like [Sesamum indicum]  
 Paulownia\_CONTIG01580G000301.1 pentatricopeptide repeat-containing protein At1g62680, mitochondrial-like [Sesamum indicum]  
 Paulownia\_LG14G000495.1 unnamed protein product [Coffea canephora]  
 Paulownia\_TIG00017490G000030.1 hypothetical protein MIMGU\_mgv1a024403mg, partial [Erythranthe guttata]  
 Paulownia\_LG5G001445.1 ABC transporter B family member 15-like [Solanum tuberosum]  
 Paulownia\_LG6G001424.1 hypothetical protein MIMGU\_mgv1a015798mg [Erythranthe guttata]

Paulownia_LG7G001055.1	geraniol 8-hydroxylase-like [Sesamum indicum]
Paulownia_LG10G001055.1	hypothetical protein MIMGU_mgv1a005614mg [Erythranthe guttata]
Paulownia_LG17G000513.1	conserved oligomeric Golgi complex subunit 1 [Sesamum indicum]
Paulownia_CONTIG01576G000009.1	probable receptor protein kinase TMK1 [Sesamum indicum]
Paulownia_LG4G000533.1	myosin-6-like [Sesamum indicum]
Paulownia_LG3G001328.1	LOW QUALITY PROTEIN: uncharacterized protein LOC105172331 [Sesamum indicum]
Paulownia_LG7G000515.1	ATP synthase subunit beta, mitochondrial-like [Sesamum indicum]
Paulownia_LG14G000088.1	ATP synthase subunit beta, mitochondrial [Sesamum indicum]
Paulownia_WTDBG01736G000003.1	atpB gene product (chloroplast) [Schizomeris leibleinii]
Paulownia_LG9G000640.1	dirigent protein 22-like [Sesamum indicum]
Paulownia_LG0G001957.1.1.5afc1db1	uncharacterized protein LOC105169823 isoform X3 [Sesamum indicum]
novel_model_700_5afbe647	hypothetical protein MIMGU_mgv1a015413mg [Erythranthe guttata]
Paulownia_LG3G000035.1	hypothetical protein L484_014336 [Morus notabilis]
Paulownia_LG18G000261.1	hypothetical protein MIMGU_mgv1a007287mg [Erythranthe guttata]
Paulownia_LG6G000521.1	Solanum lycopersicum RNA polymerase-associated protein LEO1 (LOC101254888), transcript variant X2
Paulownia_LG16G000769.1	hypothetical protein MIMGU_mgv1a015209mg [Erythranthe guttata]
Paulownia_LG5G000874.1	DNA ligase 1 isoform X1 [Sesamum indicum]
Paulownia_LG8G000848.1	nuclear inhibitor of protein phosphatase 1 [Sesamum indicum]
Paulownia_LG0G001354.1	beta-xylosidase/alpha-L-arabinofuranosidase 2-like [Sesamum indicum]
novel_model_1879_5afbe647	uncharacterized protein LOC105170210 [Sesamum indicum]
Paulownia_LG14G000774.1	uncharacterized protein LOC105168422 [Sesamum indicum]
Paulownia_LG4G001647.1	uncharacterized protein LOC105170210 [Sesamum indicum]
Paulownia_LG10G001292.1	cytoplasmic tRNA 2-thiolation protein 1 [Sesamum indicum]
Paulownia_LG8G001932.1	U-box domain-containing protein 4 [Sesamum indicum]
Paulownia_LG16G000353.1	G-type lectin S-receptor-like serine/threonine-protein kinase SD2-5 [Sesamum indicum]
Paulownia_LG16G000352.1	G-type lectin S-receptor-like serine/threonine-protein kinase SD2-5 [Sesamum indicum]
Paulownia_LG10G000258.1	pentatricopeptide repeat-containing protein At3g22670, mitochondrial [Sesamum indicum]

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