

Supplementary Table S5. Protein characteristics and identity score of lentil MLOs with its closest homologues in *M. truncatula* and *A. thaliana*.

Gene name	Interproscan prediction		Subcellular localization ^a	SP ^b	Transmembrane domains ^c			Identity with <i>M. truncatula</i>				Identity with <i>A. thaliana</i>					
	Pfam Ref.	Name			Plant_mPloc	T	I	CCTOP	<i>M. truncatula</i> gene name	Blastp hit		Pair-wise (%)		<i>A. thaliana</i> gene name	Blastp hit		Pair-wise (%)
			ID							E-value	Id	Sim	ID		E-value	Id	Sim
<i>LcMIO1</i>	PF03094	MLO-related	CM	NO	7	7	7	<i>Medtr6g033330</i>	84	0.0	83.4	90.2	<i>ATMLO6</i>	61	0.0	60.2	74.4
<i>LcMIO2</i>	PF03094	MLO-related	CM	NO	7	7	7	<i>Medtr5g022400</i>	85	0.0	81.3	91.4	<i>ATMLO4</i>	48	4e-156	44.2	59.6
<i>LcMIO3</i>	PF03094	MLO-related	CM	NO	7	7	7	<i>Medtr2g093750</i>	80	0.0	80.1	86.2	<i>ATMLO6</i>	62	0.0	59.1	72.2
<i>LcMIO4</i>	PF03094	MLO-related	CM	NO	7	7	7	<i>Medtr2g028470</i>	85	0.0	83.5	90.0	<i>ATMLO13</i>	57	1e-172	52.3	66.0
<i>LcMIO5</i>	PF03094	MLO-related	CM	NO	7	7	7	<i>Medtr3g115960</i>	85	0.0	84.2	88.5	<i>ATMLO5</i>	57	0.0	56.1	69.7
<i>LcMIO6</i>	PF03094	MLO-related	CM	NO	8	8	8	<i>Medtr5g024700</i>	80	0.0	78.9	86.2	<i>ATMLO8</i>	58	0.0	55.5	67.4
<i>LcMIO7</i>	PF03094	MLO-related	CM	NO	7	7	7	<i>Medtr2g006280</i>	91	0.0	91.3	94.9	<i>ATMLO4</i>	65	0.0	65.0	77.9
<i>LcMIO8</i>	PF03094	MLO-related	CM	NO	7	7	7	<i>Medtr3g115940</i>	90	0.0	90.1	94.6	<i>ATMLO12</i>	49	0.0	47.5	64.0
<i>LcMIO9</i>	PF03094	MLO-related	CM	NO	7	7	7	<i>Medtr3g118190</i>	84	0.0	83.8	87.8	<i>ATMLO1</i>	70	0.0	64.8	72.8
<i>LcMIO10A</i>	PF03094	MLO-related	CM	NO	8	7	8	<i>Medtr8g073130</i>	75	0.0	75.0	84.7	<i>ATMLO8</i>	58	0.0	56.0	70.8
<i>LcMIO10B</i>	PF03094	MLO-related	CM	NO	7	7	7	<i>Medtr8g073130</i>	80	0.0	76.7	84.4	<i>ATMLO8</i>	63	0.0	56.7	69.4
<i>LcMIO11</i>	PF03094	MLO-related	CM	NO	7	7	7	<i>Medtr4g079140</i>	82	0.0	80.4	86.5	<i>ATMLO12</i>	42	2e-151	38.8	57.4
<i>LcMLO13</i>	PF03094	MLO-related	CM	NO	7	7	7	<i>Medtr8g010500</i>	65	0.0	60.5	74.2	<i>ATMLO1</i>	63	0.0	57.5	67.7
<i>LcMIO14</i>	PF03094	MLO-related	CM	NO	7	7	7	<i>Medtr8g010530</i>	81	0.0	80.5	88.5	<i>ATMLO1</i>	67	0.0	62.0	72.8
<i>LcMIO15</i>	PF03094	MLO-related	CM	NO	7	7	7	<i>Medtr2g079500</i>	92	0.0	91.7	96.0	<i>ATMLO11</i>	69	0.0	68.1	77.9

^a Subcellular localization as predicted by the web server Plant-mPloc. CM stand for cell membrane

^b Prediction of Signal peptide (SP) as indicated by SignalP server.

^c Number of transmembrane domains (TM) as predicted by TMHMM (T) Interproscan5 (I) and CCTOP web servers