



Figure S2

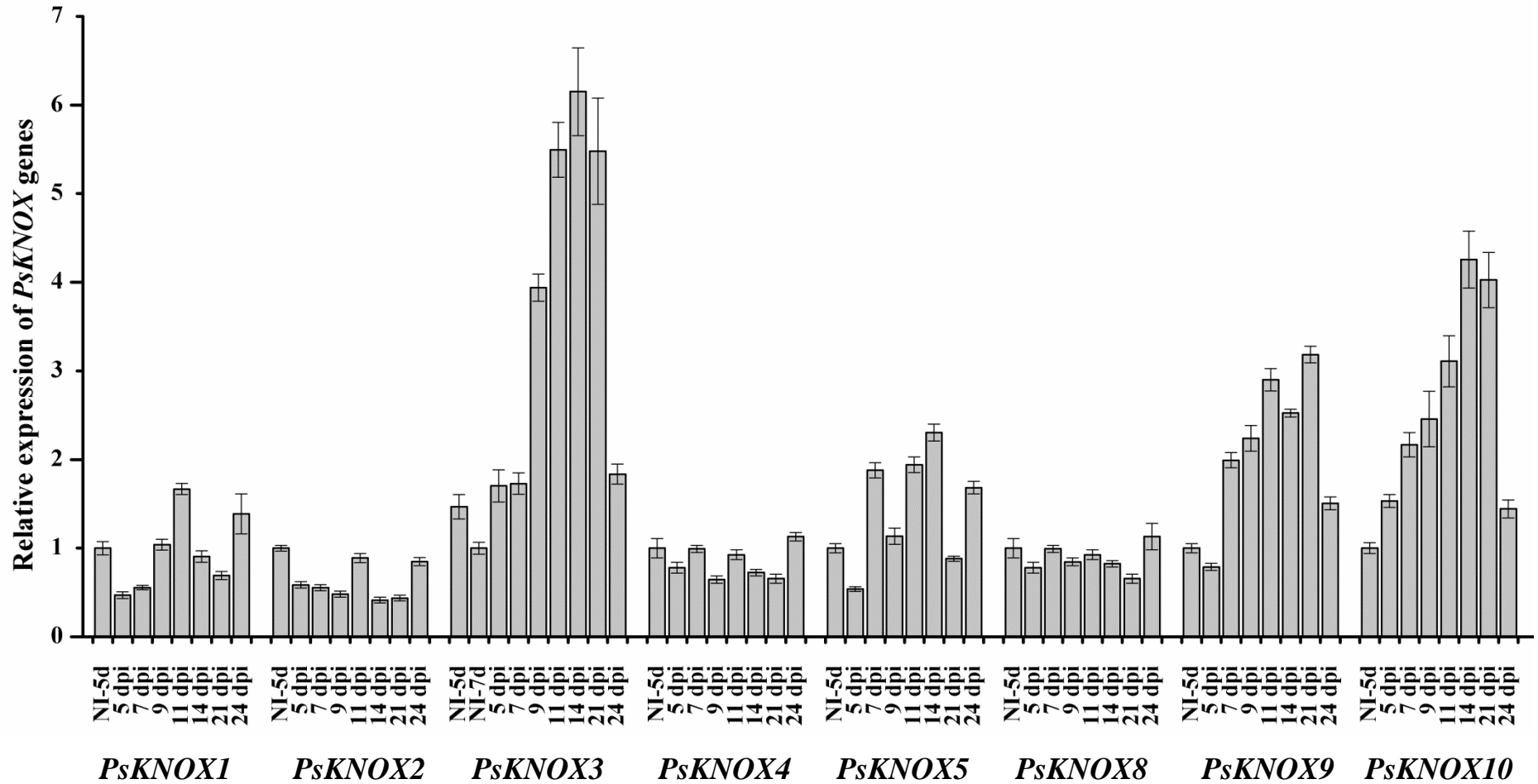


Figure S3

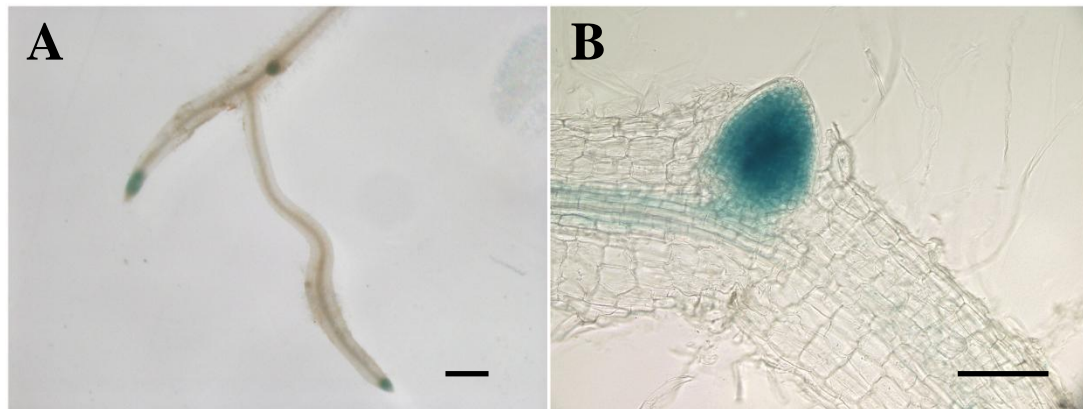
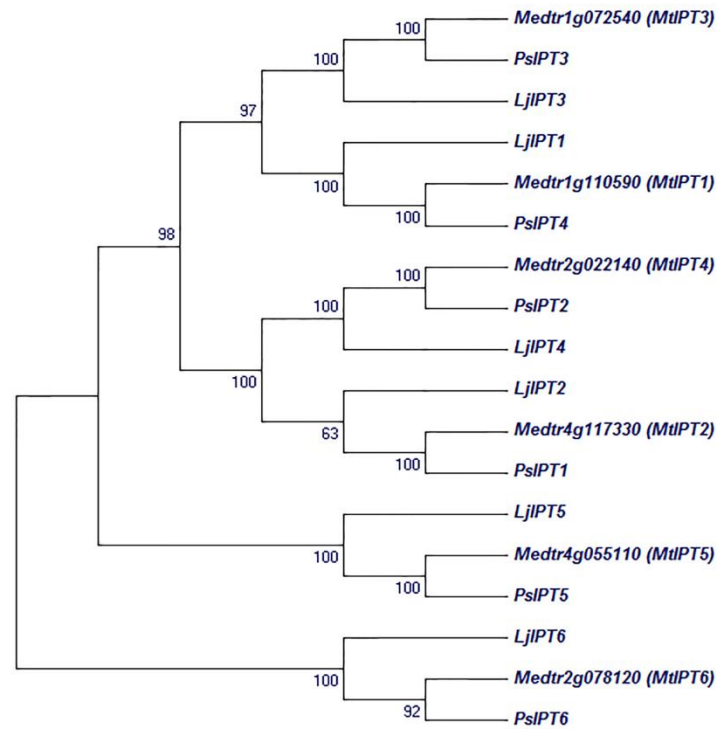


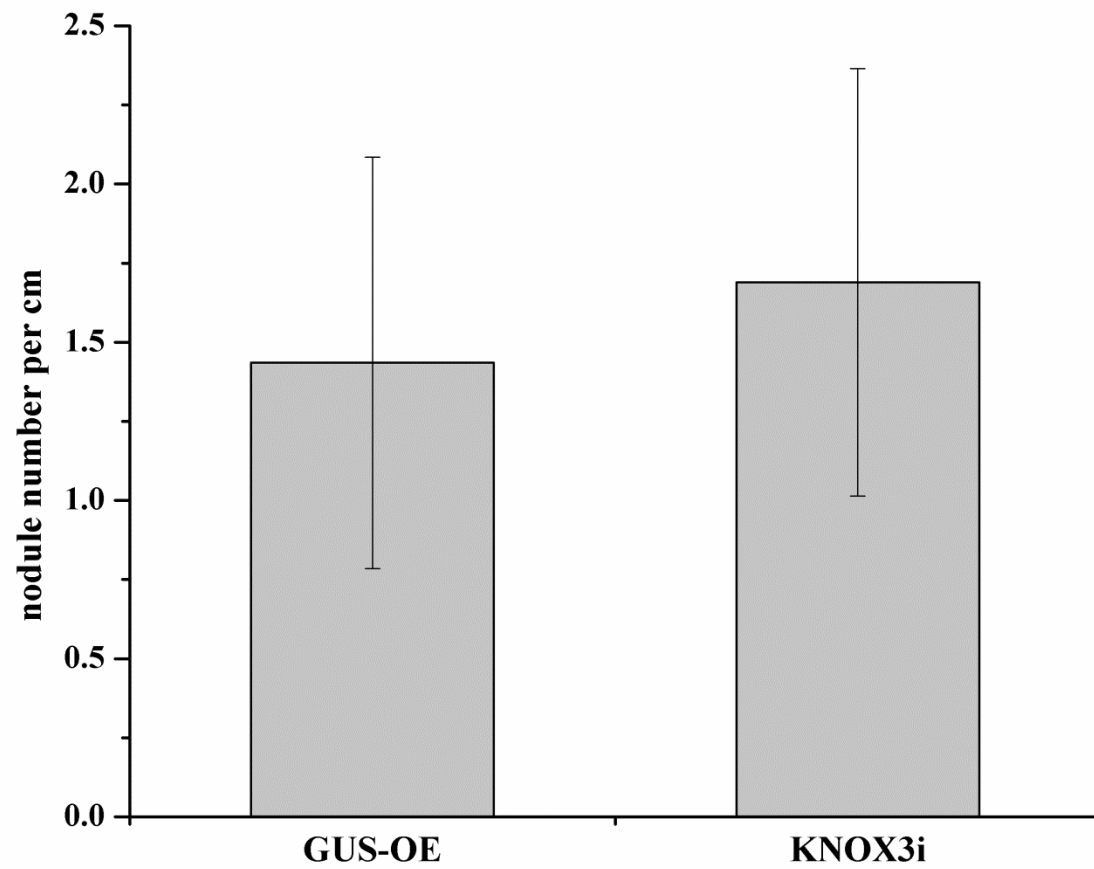
Figure S4



<i>Medicago truncatula</i>	<i>Lotus japonicus</i>	Similarity (%)
Medtr1g110590 ( <i>MtiIPT1</i> )	<i>LjIPT1</i>	67%
Medtr4g117330 ( <i>MtiIPT2</i> )	<i>LjIPT2</i>	64,3%
Medtr1g072540 ( <i>MtiIPT3</i> )	<i>LjIPT3</i>	71,8%
Medtr2g022140 ( <i>MtiIPT4</i> )	<i>LjIPT4</i>	70%
Medtr4g055110 ( <i>MtiIPT5</i> )	<i>LjIPT5</i>	80,4%
Medtr2g078120 ( <i>MtiIPT6</i> )	<i>LjIPT6</i>	85,3%

<i>Medicago truncatula</i>	<i>Pisum sativum</i> L.	Similarity (%)
Medtr1g110590 ( <i>MtiIPT1</i> )	<i>PsIPT4</i>	79,6%
Medtr4g117330 ( <i>MtiIPT2</i> )	<i>PsIPT1</i>	82,2%
Medtr1g072540 ( <i>MtiIPT3</i> )	<i>PsIPT3</i>	84,4%
Medtr2g022140 ( <i>MtiIPT4</i> )	<i>PsIPT2</i>	85,5%
Medtr4g055110 ( <i>MtiIPT5</i> )	<i>PsIPT5</i>	84,7%
Medtr2g078120 ( <i>MtiIPT6</i> )	<i>PsIPT6</i> (CDS partial)	90,9%

Figure S5



**Table S1.**

List of primers used for cloning.

<b>gene</b>	<b>Forward primer</b>	<b>Reverse primer</b>
<i>MtKNOX3-OE</i>	5'-AAAAAAGCAGGCTTCATGGCTTACCAAAACCAACATCT-3'	5'-CAAGAAAGCTGGGTCTAGTTTTGAGACCTTTTGCCTT-3'
<i>MtKNOX3i</i>	5'-CACCATGGCTTACCAAAACCAACATC-3'	5'-TTGGTTATTAGGGTCGGAATCA-3'
<i>PsKNOX3-OE</i>	5'-GGAGATAGAACCATGGCTTATCACAACCAGCATC-3'	5'-AAGCTGGGTGCTAGTTTTGAGACCTTTTGCCT-3'
attB_primers	5'-GGGGACAAGTTTGTACAAAAAGCAGGCTTC-3'	5'-GGGGACCACTTTGTACAAGAAAGCTGGGTG-3'
<i>PsKNOX3_check</i>	5'-CTCCTTTGTTCAAACACATAA-3'	5'-TTAGTGCAATTATCATCCCT-3'
<i>PsKNOX3_3'_F1_RACE</i> (cv. Frisson)	5'-CAAAGCTTAACAGGAGTTTCACC-3'	
<i>PsKNOX3_3'_F2_RACE</i> (cv. Frisson)	5'-GATTTGGCCCTCTTATACCTACAG-3'	
<i>PsKNOX3_3'_F3_RACE</i> (cv. Frisson)	5'-AAGAGACGAGCCGGGAAACT-3'	
<i>PsKNOX3_5'_R1_RACE</i> (cv. Frisson)		5'-AGTTTCCCGCTCGTCTCTT-3'
<i>PsKNOX3_5'_R2_RACE</i> (cv. Frisson)		5'-CTGTAGGTATAAGAGGGCCAAATC-3'
<i>PsKNOX3_5'_R3_RACE</i> (cv. Frisson)		5'-GGTGAACTCCTGTTAAGCTTTG-3'
<i>PsKNOX4_check</i>	5'-ACCTCAACCCTCTTCCT-3'	5'-AGTACTCTATCATCAATAACCATA-3'
<i>PsKNOX5_check</i>	5'-ACTCTCAACTTCTCCTTCGC-3'	5'-CATATATATGTAATCACCATCAC-3'
<i>PsKNOX6-3'_F1_RACE</i>	5'-ATGGCTCATCCTCTCTTTCC-3'	
<i>PsKNOX6-3'_F2_RACE</i>	5'-ATGTGAATTATTGAATGG-3'	
<i>PsKNOX6-3'_F3_RACE</i>	5'-GTTTGGATCAGTTCATGGAG-3'	
<i>PsKNOX6-5'_R1_RACE</i>		5'-CTCCATGAACTGATCCAAAC-3'
<i>PsKNOX6-5'_R2_RACE</i>		5'-CCATTCAATAATTCACAT-3'

<i>PsKNOX6-5'_R3</i> <i>RACE</i>		5'-GGAAAGAGAGGATGAGCCAT-3'
<i>PsKNOX8_3'_F1_</i> <i>RACE</i>	5'-TTGAATGAAGCGAGTTTGTTTTT-3'	
<i>PsKNOX8_3'_F2_</i> <i>RACE</i>	5'-CAAATGCTCCTTCGTAAATATGG-3'	
<i>PsKNOX8_3'_F3_</i> <i>RACE</i>	5'-GAGAAAATGCAGCTATCAGAAACA-3'	
<i>PsKNOX8_5'_R1_</i> <i>RACE</i>		5'-CCATATTTACGAAGGAGCATTG-3'
<i>PsKNOX8_5'_R2_</i> <i>RACE</i>		5'-TTCAACTGCTTCAACCTTCCACA-3'
<i>PsKNOX8_5'_R3_</i> <i>RACE</i>		5'-GGAGACTATCGGTGCGGTGG-3'
<i>PSKNOX9_check</i>	5'-ATGCAGTGAGAGAAGAGAAAG-3'	5'-GATAACATGAAATGAAGAAG-3'
<i>PSKNOX10_check</i>	5'-CGAATCAAATTCGCAGTAGA-3'	5'-ATATTAATAATTCTTTCTTTCATCA-3'

**Table S2**

List of primers for qRT-PCR.

<b>Gene</b>	<b>Gene ID/ GenBank accessions numbers</b>	<b>Forward primer</b>	<b>Reverse primer</b>
<i>Ubi</i>	Medtr4g091580 ( <i>M. truncatula</i> <i>Polyubiquitin 3</i> )  L81140.1 ( <i>P. sativum</i> <i>polyubiquitin 2</i> ( <i>PUB2</i> ))	5'- ATGCAGATYTTTGTGAAGAC -3'	5'- ACCACCACGRAGACGGAG -3'
<i>MtACTIN11</i> *	Medtr7g026230	5'-ACGAGCGTTTCAGATG-3'	5'-ACCTCCGATCCAGACA-3'
<i>MtKNOX1</i> **	EF128056  Medtr2g024390	5'-ATTCATTCAATGGAGGGTAGTT-3'	5'-TTTTGAAAGCATGATAGAAGAGGT-3'
<i>MtKNOX2</i> **	EF128057  Medtr1g017080	5'-GAAGCGTTGACACTGGCACATC-3'	5'-TGGAAAATAGAAGCAACAGACACT-3'
<i>MtKNOX3</i> **	EF128058  Medtr1g012960	5'-TGCACCAAACCTCCCCTAAGAT-3'	5'- TTCCTAAAACAAAAAGACTAA-3'
<i>MtKNOX4</i> **	EF128059  Medtr5g011070	5'- AGTGTACTGTAGACCCTCCAATG-3'	5'-ACCACACCTAATAATAACAACAGA-3'
<i>MtKNOX5</i> **	EF128060  Medtr3g106400	5'- GGTCCCAATCCTCCGGTCAATGG-3'	5'-TCGTTATCAAGCATGCCCT-3'
<i>MtKNOX6</i> **	EF128061  Medtr5g085860	5'- CATGTGCAAGCCATTCCTATG-3'	5'- GAAAAATCAACCGTTATGCCCA-3'
<i>MtKNOX7</i>	XM_003613135 Medtr5g033720	5'-AACTGCTTCTGATGATGGTGGTG-3'	5'-GGGTTTGTCTTGCTTCTTTTGGGA-3'
<i>MtKNOX8</i>	XM_003591173 Medtr1g084060	5'-CGCAACTCACCTCTTTATCCA-3'	5'-GCTTTCACGCCCTATTTCTTCA-3'
<i>MtKNOX9</i>	Medtr4g116545- 00360952	5'- TTATGTTCTTTTGGCTGTGTGCCTTC-3'	5'-CTCTCTGCCTGCTCGTCTTCA-3'
<i>MtKNOX10</i>	Medtr2g461240	5'- TTGCTAATGCTAATGGTGTGTGG-3'	5'-CTCTGCTTGGTCATCTTCATCGT-3'



<i>PsActin</i>	X67666.1	5'- CTCAGCACCTTCCAGCAGATGTG- 3'	5'- CTTCTTATCCATGGCAACATAGTTC- 3'
<i>PsKNOX1</i>	AF080104.2	5'- TTACTTGAATGGTGGAGCAGACA- 3'	5'-ATGGGAAATGAATTGGTGAGAAC-3'
<i>PsKNOX2</i>	AF080105.1	5'- ATCAACATCATCATCAACAAC- 3'	5'-GTCTAGTTCTGGATCTTTTGAAGA-3'
<i>PsKNOX3</i>	KP296686/ KP296687	5'- ATTCCGATCCCAACCAACTCC-3'	5'-ACTTACTCCTCCGTCGCCTTTCAA-3'
<i>PsKNOX4</i>	KP296688	5'-CAACTCAAGGCGGAGATAGCAA- 3'	5'-ATATCACGGCAAGCCATAACA-3'
<i>PsKNOX5</i>	KP296689/ KP296690	5'-ACCTCCGAACCTCACCCATCCT-3'	5'-TGCGCCATTATTTCCCCTTTGTAT-3'
<i>PsKNOX6</i>	partial CDS	5'-ATGGCTCATCCTCTCTTTCC-3'	5'-CTCCATGAACTGATCCAAAC-3'
<i>PsKNOX8</i>	KT363851	5'-TTGAATGAAGCGAGTTTGTTTTT- 3'	5'-CCATATTTACGAAGGAGCATTTG-3'
<i>PsKNOX9</i>	KP296691	5'-CACTTGGAAACCGGAGAGGAGAG- 3'	5'-GAGTTGCGATTCGGAGACACG-3'
<i>PsKNOX10</i>	KP296692	5'- ACATGCAAAGGCTACTACCGTTCA- 3'	5'-AATTCCTCTTCCGTCGTCGTTTTG-3'
<i>MtIPT1</i>	Medtr1g110590	5'-TCGCCACCCTCTTCCCTTAC-3'	5'-CCGACAACACAGGAAACGAAA-3'
<i>MtIPT3</i>	Medtr1g072540	5'- TCCTCCAAATCACCAAACATAAAA- 3'	5'-CGCCCATCACCAACTACTACA-3'
<i>MtIPT4</i>	Medtr2g022140	5'-GCCACCGAAACGCACCTTA-3'	5'-ATTCCCTGTCCCACCACCTC-3'
<i>PsIPT2</i>	AB194605.1	5'- GGAAAGACCAAATTAGCCATAGAT- 3'	5'-AACCCAAAGAAAACAACACTCATA- 3'
<i>PsIPT3</i>	KP296693	5'- AATCACGGGCCACGGACATC-3'	5'- CATCGACCCAAAGACAACAGAAG-3'
<i>PsIPT4</i>	KP296694	5'- ATCCCCTTTCATCAACGCAACAA-3'	5'- GTCCACCATTCCCGAGTCAAACAT- 3'
<i>MtLOG1</i>	Medtr7g101290.1	5'-GGGGATATGGA ACTCTGGAGGA- 3'	5'-TGTCATCGCAACAACGGAAA-3'
<i>MtLOG2</i>	Medtr1g064260.1	5'-TAACTGGTGAAACGGTGGGAGA- 3'	5'-CCA ACTCTTTTGATGTAGGTGCTGA- 3'

<i>MtLOG3</i>	Medtr4g058740.1	5'-ATTGTTTTGATGGGGTTGGTTT-3'	5'-AGCTCTTTTGTGATGGTGCAGA-3'
<i>MtLOG4</i>	Medtr3g113710.1	5'- ACGCATCTGTGTTTATTGTGGTAGC- 3'	5'-GTTCTTCGAGGGTGCCATATCC-3'
<i>MtLOG5</i>	Medtr1g105240.1	5'-TCAACGCCTCTTTTCTCCATCA-3'	5'-CAGACCCACACTACCACCTCCA-3'
<i>MtLOG6</i>	Medtr1g015830.1	5'-GGTGGAAAGTGTGGATTGATGG- 3'	5'-AAGTTCTTTGGCTGATGAAGCTGA-3'
<i>LOG_Medtr3g041540</i>	<i>LOG_Medtr3g041540</i>	5'-GGTTTCCATTTTTGCGTTGAGG-3'	5'-TGACCTTTTCACAGTCCATTTCGT-3'
<i>PsLOG1</i>	KP296697	5'- TGACAAGCCGGTGGGATTAGTAG-3'	5'-ATTATGTGACGAGCATTGGACTG-3'
<i>PsLOG2</i>	KP296698	5'- ACAAGCTGTTCATGATGGTGGTAGA -3'	5'-AGCTTTGTCAATGAATGACAGTAAC- 3'
<i>MtRR4*</i>	Medtr5g036480	5'-ATGCTTTTGTTCGGGTTTA-3'	5'-CTGCACCTTCCTCCAAACAT-3'
<i>PsRR4</i>	KP296699	5'- GGAGGAAGGTGCAGAGGATTTTA-3'	5'-GGGCGAAGAAGACAAAGGAGATG- 3'
<i>PsRR8</i>	KP296702, KP296703	5'-TTGAGGAAGGAGCGGAGGAT-3'	5'-AATGTGGCGGATAGAGATGGGC- 3'

\* Sequence of primers for *MtActin11* and for *MtRR4* were taken from Gonzalez-Rizzo et al., 2006

\*\*Sequence of primers for *MtKNOX1-6* were taken from Giacomo et al., 2008