

Table 6 The target genes and miRNAs with the opposite trend in expression change

MiRNAs	Expression	Target genes	Expression	Encoded protein	Function
miR164a	↑	Potri.010G152000	↓	Polygalacturonase / pectinase	Pectate lyase suerfamily protein
miR168a-5p	↑	Potri.016G128500	↓	Solute carrier family 40 (iron-regulated transporter) member 1	Iron ion transmembrane transport
miR169s	↑	Potri.011G140000	↓	Kinesin motor protein	Microtubule motor activity
miR171a-3p	↑	Potri.015G096200	↓	Programmed cell death protein 2-related	Zinc finger mynd 2; protein binding
miR390a	↑	Potri.007G029200	↓	Scarecrow-like protein 15	GRASdomain family
		Potri.013G064300	↓	Serine/threonine protein kinase	Protein kinase activity; protein phosphorylation
		Potri.006G051700	↓	Leucine-rich repeat; Transmembrane protein; Kinase	Protein kinase activity; protein phosphorylation
miR393a-5p	↑	Potri.010G254700	↓	Serine hydroxymethyltransferase	Transferase activity; catalytic activity
		Potri.004G089100	↓	Threonine specific protein kinase	Protein kinase activity; protein phosphorylation
miR396a	↓	Potri.001G020600	↑	Cation transporting atpase	Calcium ion transmembrane transport
miR472a	↓	Potri.001G442800	↑	Maltase-glucoamylase	Carbohydrate metabolic process
miR476a	↑	Potri.019G063400	↓	Fad binding domain; berberine	Oxidation-reduction process
		Potri.017G108100	↓	Pentatricopeptide repeat-containing protein	Protein binding
		Potri.002G260100	↓	Protein tyrosine kinase, pkinase_tyr; leucine rich repeat, LRR_8	Protein kinase activity
miR482c-3p	↑	Potri.005G136200	↓	Enoyl-(acyl carrier protein) reductase	Oxidoreductase activity
		Potri.003G097100	↓	Cellulose synthase-like D1 protein	Zinc/ring finger domain
		Potri.T105500	↓	Leucine rich repeat-containing protein	ADP binding; disease resistance protein signature
miR530a	↑	Potri.018G151300	↓	Transcriptional regulator	Nucleotide binding
		Potri.T004100	↓	Leucine rich repeat (LRR_8)	Protein binding
		Potri.002G178500	↓	Protein IQ-domain 17-related	Protein binding
		Potri.002G113300	↓	Kn1-like protein	Regulation of transcription