

Supplementary Table S3 Known miRNA and its corresponding target gene information

MiRNA	Transcript	Description
<i>zma-miR156a-5p</i>	<i>GRMZM5G836353</i>	uncharacterized protein LOC100217292
<i>zma-miR156e-3p</i>	<i>GRMZM2G119865</i>	ethylene-responsive transcription factor RAP2-9
<i>_L+1_2ss14CA22TC</i>	<i>GRMZM2G399072</i>	AP2-like ethylene-responsive transcription factor BBM2 isoform X2
<i>zma-miR162-3p_R+1</i>	<i>GRMZM2G477314</i>	CF9
	<i>GRMZM2G040762</i>	uncharacterized protein LOC100381417 isoform X1
	<i>GRMZM2G079066</i>	uncharacterized protein LOC100276268
	<i>GRMZM2G040762</i>	uncharacterized protein LOC100381417 isoform X1
<i>zma-miR164a-5p</i>	<i>GRMZM2G180452</i>	putative HLH DNA-binding domain superfamily protein
	<i>GRMZM2G168681</i>	farnesyl pyrophosphate synthase
	<i>GRMZM2G027023</i>	uncharacterized protein LOC100279353 isoform 2
	<i>GRMZM2G104262</i>	cryptochrome 2
	<i>GRMZM2G167651</i>	golgin candidate 4 isoform X2
	<i>GRMZM2G027023</i>	uncharacterized protein LOC100279353 isoform 2
	<i>GRMZM2G167651</i>	golgin candidate 4 isoform X2
<i>zma-miR166l-3p</i>	<i>GRMZM2G028086</i>	Calcium-dependent protein kinase 7
	<i>GRMZM2G144407</i>	uncharacterized protein LOC100192720
	<i>GRMZM5G813259</i>	CRM-domain containing factor CFM3, chloroplastic/mitochondrial-like
<i>zma-miR167c-3p_L-1</i>	<i>GRMZM2G102475</i>	putative pinin_SDK_memA domain family protein isoform 2
	<i>GRMZM2G153181</i>	uncharacterized protein LOC100384046
	<i>GRMZM2G179097</i>	cyclin-dependent kinase G-2-like isoform X1
	<i>GRMZM2G066449</i>	LOW QUALITY PROTEIN: atherin
	<i>XM_008675682.3</i>	BSD domain-containing protein 1
	<i>XM_008682762.2</i>	putative pinin_SDK_memA domain family protein isoform 2
<i>zma-miR167e-5p</i>	<i>GRMZM2G003656</i>	RING finger protein 13 precursor
	<i>GRMZM2G096622</i>	uncharacterized protein LOC100193197 isoform X1
	<i>GRMZM2G003656</i>	RING finger protein 13 precursor
<i>zma-MIR167j-p3</i>	<i>GRMZM2G160032</i>	putative transcription factor
<i>_2ss12AT20TA</i>		
<i>zma-miR169o-3p</i>	<i>GRMZM2G104078</i>	putative NAC domain transcription factor superfamily protein
<i>_L-1R+1</i>	<i>GRMZM2G067225</i>	allene-oxide synthase1
	<i>GRMZM5G822947</i>	uncharacterized protein LOC100276769
<i>zma-miR169o-3p</i>	<i>GRMZM2G403797</i>	protein WHAT'S THIS FACTOR 1, chloroplastic
<i>_L-1R+1</i>	<i>Zm00001d035838</i>	60S ribosomal protein L39-1
	<i>GRMZM2G105400</i>	uncharacterized LOC100281161
	<i>GRMZM2G026447</i>	uncharacterized protein LOC100281668
	<i>GRMZM2G074017</i>	ATPase inhibitor
	<i>GRMZM2G031496</i>	unknown
	<i>Zm00001d018986</i>	Protein WVD2-like 2

	<i>GRMZM2G144387</i>	unknown
	<i>GRMZM2G072806</i>	uncharacterized protein LOC100283266
	<i>GRMZM5G890820</i>	uncharacterized LOC100216726
	<i>GRMZM2G107092</i>	uncharacterized protein LOC107457590 isoform X1
	<i>GRMZM2G082032</i>	probable isoaspartyl peptidase/L-asparaginase 2
	<i>GRMZM2G069254</i>	uncharacterized LOC100275405
	<i>GRMZM2G094581</i>	E3 UFM1-protein ligase 1 homolog
	<i>GRMZM2G389362</i>	vacuolar-sorting receptor 1
	<i>GRMZM2G117776</i>	filaggrin-2
	<i>GRMZM2G107092</i>	uncharacterized protein LOC107457590 isoform X1
	<i>GRMZM2G312110</i>	auxin transport protein BIG
	<i>GRMZM2G369991</i>	60S ribosomal protein L10a
	<i>GRMZM5G890820</i>	uncharacterized LOC100216726
<i>zma-miR169o-5p_R-1</i>	<i>GRMZM2G115674</i>	uncharacterized protein LOC100277219
	<i>GRMZM2G091964,</i>	uncharacterized protein LOC100282719 isoform X1
	<i>GRMZM2G141636</i>	uncharacterized protein LOC100193940 isoform X1
	<i>GRMZM5G829103</i>	nuclear transcription factor Y subunit A-10 isoform X1
	<i>GRMZM2G165488</i>	uncharacterized LOC100193094
	<i>GRMZM2G091964</i>	uncharacterized protein LOC100282719 isoform X1
<i>zma-MIR319a-p5</i>	<i>GRMZM2G064390</i>	uncharacterized protein LOC100273603 isoform X1
	<i>GRMZM2G044733</i>	autophagy-related protein 13b
<i>zma-MIR319b-p5</i>	<i>GRMZM2G359038</i>	NA
	<i>GRMZM2G359038,</i>	uncharacterized protein LOC100272602 isoform X1
<i>zma-MIR319d-p5</i>	<i>GRMZM2G478417</i>	bZIP transcription factor TRAB1
<i>zma-miR390a-5p</i>	<i>GRMZM2G416701</i>	AP2-like ethylene-responsive transcription factor TOE3
	<i>GRMZM2G042920</i>	Transcription factor PIF4
	<i>GRMZM2G134396</i>	uncharacterized protein LOC100275036
<i>zma-miR396a-5p</i>	<i>GRMZM2G107092</i>	uncharacterized protein LOC107457590 isoform X1
<i>zma-miR396c_L-1</i>	<i>GRMZM2G055782</i>	MADS-box transcription factor 27 isoform X1
<i>zma-miR396c_L-1</i>	<i>GRMZM2G152908</i>	sucrose synthase 2 isoform X1
	<i>GRMZM2G041223</i>	putative growth-regulating factor 6
	<i>GRMZM2G033612</i>	uncharacterized protein LOC100101540
	<i>GRMZM2G124566</i>	growth-regulating factor
	<i>GRMZM2G098594</i>	putative growth-regulating factor 14
	<i>GRMZM2G179941</i>	stromal processing peptidase, chloroplastic
	<i>GRMZM2G105335</i>	putative growth-regulating factor 3
	<i>GRMZM2G119359</i>	putative growth-regulating factor 12
	<i>GRMZM2G152908</i>	sucrose synthase 2 isoform X1
<i>zma-miR397a-5p</i>	<i>GRMZM2G166659</i>	60S ribosomal protein L23a-like isoform X1 [Sorghum bicolor]
	<i>GRMZM2G134806</i>	hsc70-interacting protein
	<i>GRMZM2G410152</i>	uncharacterized protein LOC100286327
<i>zma-MIR397b-p5</i>	<i>GRMZM2G033230</i>	putative bZIP transcription factor superfamily protein
	<i>GRMZM2G006119</i>	corticosteroid 11-beta-dehydrogenase isozyme 1
	<i>GRMZM2G120652</i>	Pyridoxal 5'-phosphate synthase-like subunit PDX1.2

	GRMZM2G134806	hsc70-interacting protein
	Zm00001d038980	IAA19 - auxin-responsive Aux/IAA family member
	GRMZM5G834758	DNA-binding protein, partial
	GRMZM2G139349	40S ribosomal protein S25-1
	GRMZM5G867518	uncharacterized protein LOC100283674
	GRMZM2G397002	40S ribosomal protein S25-3
	GRMZM2G044348	NA
<i>zma-miR398b-5p_R-1</i>	GRMZM2G080516	AP2-EREBP transcription factor
	GRMZM2G131577	Transcription factor BTF3
	GRMZM2G141679	ethylene-responsive transcription factor RAP2-13-like
	GRMZM2G416701	AP2-like ethylene-responsive transcription factor TOE3
	GRMZM2G180452	
	GRMZM2G001444	unknown
	GRMZM2G177878	uncharacterized protein LOC100279545
	GRMZM2G131577	Transcription factor BTF3
	GRMZM2G338259	auxin response factor 10
	GRMZM2G409224	uncharacterized protein LOC100273824
	GRMZM2G001444	
<i>zma-miR408a_L-1</i>	GRMZM2G180328	putative NAC domain transcription factor superfamily protein
	GRMZM2G399072	AP2-like ethylene-responsive transcription factor BBM2 isoform X2
	GRMZM2G169688	transcription factor GTE8
	GRMZM2G093175	asparagine synthetase 2
<i>zma-miR408a_L-1</i>	GRMZM2G002898	putative cytochrome P450 superfamily protein
	GRMZM2G161245	Malate dehydrogenase
	GRMZM2G325118	unknown
	GRMZM2G134976	uncharacterized protein LOC100275636
	GRMZM2G478709	pre-mRNA-splicing factor prp45
	GRMZM2G488465	uncharacterized protein LOC100381775
	GRMZM2G077340	hypothetical protein Zm00014a_040048
<i>zma-miR408a_L-1</i>	GRMZM2G336456	uncharacterized protein LOC103647431
<i>zma-miR444a_1ss12TC</i>	GRMZM2G399072	AP2-like ethylene-responsive transcription factor BBM2 isoform X2
	GRMZM2G001024	putative RING/U-box superfamily protein
	GRMZM2G439201	elongation factor 1-beta
	GRMZM2G127139	zeaxanthin epoxidase
	GRMZM2G380377	DRE-binding protein 4
	GRMZM2G096764	ATP-dependent zinc metalloprotease FTSH 4 mitochondrial
	GRMZM2G064767	unknown
	GRMZM2G001024	putative RING/U-box superfamily protein
	GRMZM2G179325	scarecrow-like protein 34
	GRMZM2G127139	zeaxanthin epoxidase
<i>zma-miR529-5p</i>	GRMZM2G146862	general transcription factor 3C polypeptide 3 isoform X1
	GRMZM6G729818	uncharacterized protein LOC100191463
	GRMZM2G031501	uncharacterized protein LOC100272713
	GRMZM2G017804	uncharacterized protein LOC100277723 precursor

	<i>GRMZM2G061734</i>	<i>SBP-transcription factor 5</i>
	<i>GRMZM2G074489</i>	<i>probable protein phosphatase 2C 44</i>
	<i>GRMZM2G061734</i>	<i>SBP-transcription factor 5</i>
	<i>GRMZM2G095782</i>	<i>tRNA pseudouridine synthase</i>
<i>zma-miR827-3p</i>	<i>GRMZM2G003992</i>	<i>uncharacterized protein LOC100279277</i>
	<i>GRMZM2G077531</i>	<i>uncharacterized protein LOC100383043</i>
<i>zma-miR827-5p_L+1</i>	<i>GRMZM2G536825</i>	<i>NA</i>
<i>zma-miR169o-5p_R-1</i>	<i>GRMZM2G536825</i>	<i>L10-interacting MYB domain-containing protein isoform X2</i>
