Table S1. Reference sets of previously known *Arabidopsis* miRNAs

miRNA	sequence	refset1	refset 2
MIR156	UGACAGAAGAGAGUGAGCACA	Y	Y
MIR157	UUGACAGAAGAUAGAGAGCAC	Y	
MIR158	UCCCAAAUGUAGACAAAGCA	Y	
MIR159	UUUGGAUUGAAGGGAGCUCUA	Y	
MIR159b	UUUGGAUUGAAGGGAGCUCUU	Y	
MIR159c	UUUGGAUUGAAGGGAGCUCCU	Y	
MIR160	UGCCUGGCUCCCUGUAUGCCA	Y	Y
MIR161	UUGAAAGUGACUACAUCGGGG	Y	
MIR162	UCGAUAAACCUCUGCAUCCAG	Y	Y
MIR163	UUGAAGAGGACUUGGAACUUCGAU	Y	
MIR164	UGGAGAAGCAGGGCACGUGCA	Y	Y
MIR165	UCGGACCAGGCUUCAUCCCCC	Y	
MIR166	UCGGACCAGGCUUCAUUCCCC	Y	Y
MIR167a	UGAAGCUGCCAGCAUGAUCUA	Y	Y
MIR167c	UGAAGCUGCCAGCAUGAUCUG	Y	
MIR168	UCGCUUGGUGCAGGUCGGGAA	Y	
MIR169	CAGCCAAGGAUGACUUGCCGA	Y	Y
MIR170	UGAUUGAGCCGUGUCAAUAUC	Y	
MIR171	UGAUUGAGCCGCGCCAAUAUC	Y	Y
MIR172	AGAAUCUUGAUGAUGCUGCAU	Y	Y
MIR172b	AGAAUCUUGAUGAUGCUGCAG	Y	
MIR172c	GGAAUCUUGAUGAUGCUGCAU	Y	
MIR173	UUCGCUUGCAGAGAGAAAUCAC	Y	
MIRJAW	UUGGACUGAAGGGAGCUCCC	Y	Y

refset1 is the set of previously known miRNAs. All are found in the miRNA registry (http://www.sanger.ac.uk/Software/Rfam/mirna/), except MIR159c, MIR172b, MIR167c (referred to as MIR167b) and MIR172c, which are described in Park et. al. (2002). refset2 is a set on nonredundant miRNAs (i.e. only 1 sequence per family). All members of refset2 except MIRJAW (1 substitution) are perfectly conserved between *Arabidopsis* and *Oryza* .