

**Table S1** Result summary of the case study on the miRNA prediction in *Dendrobium officinale*.

Organ	No. of the conserved mature miRNAs identified from miRBase registries (release 21)	miRDeep-P prediction results							
		No. of mature miRNAs (unique sequences)	No. of conserved mature miRNAs (unique sequences)	No. of pri-miRNAs	No. of degradome-supported pri-miRNAs	No. of processing sites supported by degradome-seq data			
						Site 1	Site 2	Site 3	Site 4
Flower	240	122 (82)	26 (10)	61	26	17	0	8	14
Leaf	174	108 (92)	18 (11)	54	41	30	3	23	16
Root	135	4 (4)	1 (1)	2	1	0	1	1	0
Stem	154	4 (4)	0 (0)	2	2	1	0	2	0

**Note:** "Site 1": The 5' end of the 5'-armed mature miRNA. "Site 2": The 3' end of the 5'-armed mature miRNA. "Site 3": The 5' end of the 3'-armed mature miRNA.

"Site 4": The 3' end of the 3'-armed mature miRNA.