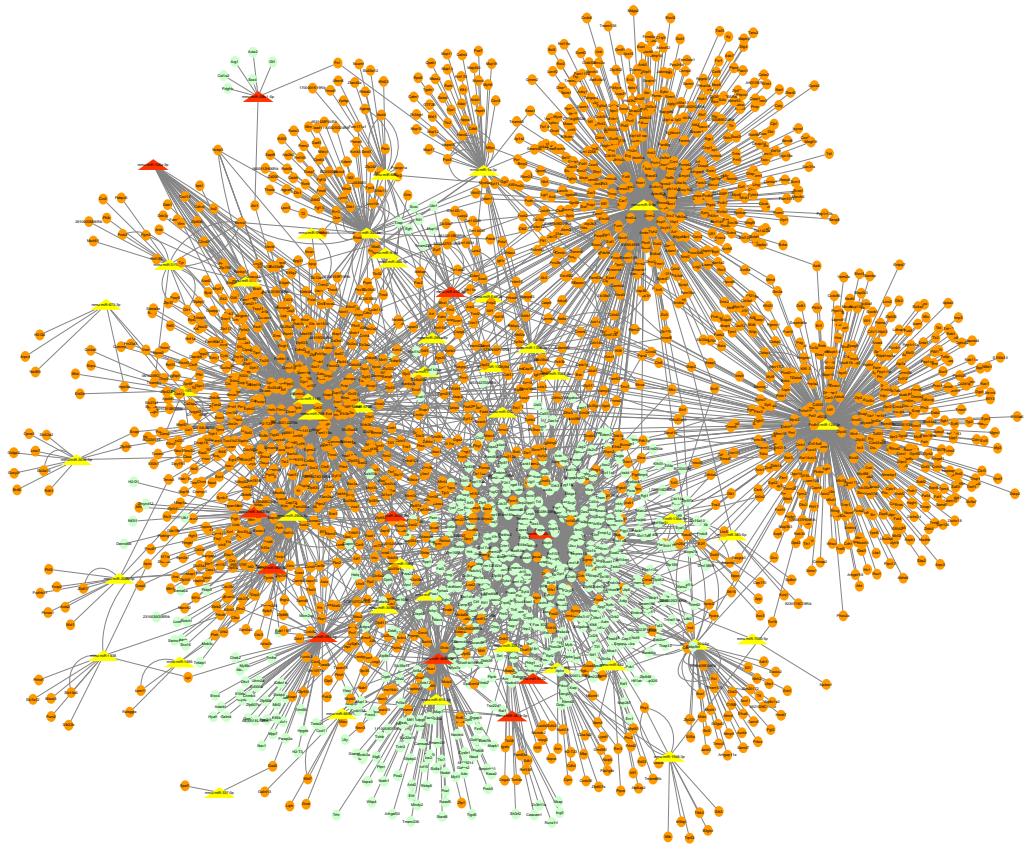1   **Supplementary Materials**

2   **Supplementary Fig. 1.** DEMiR-miRTG networks identified from the GSE72315 dataset and

3   miRTarBase. For the miRNA expression profiling dataset, the threshold was determined according to the

4   following values: $P < 0.05$ and fold change ≥ 3.0. A cystoscope was used for visualization.

5   **Supplementary Fig. 2.** Potential binding sites of miR-329-3p on *Adamts4* (A-C) and *Dnajb1* (D-F)

6   genes.

7

A

```
miRNA  3' uuUUUCCAAUCGACCCACACAa 5'
                |||  | ||:  |||||||
Target 5' acAAATATGAGT--GGTGTGTg 3'
```

B

```
miRNA  3' uuuuuccaaucGACCCACACAa 5'
                     || |||||||
Target 5' gacgccctcttCT-GGTGTGTc 3'
```

C

```
miRNA  3' uuuuuccAAUCGACCCAC-ACAa 5'
                 ||| |||||||| |||
Target 5' catcttaTTACCTGGGTGATGTt 3'
```

D

```
miRNA  3' uuuuuuccaaUCGACCCACACaa 5'
                    |||| |||||||
Target 5' tccattggaAGCT-GGTGTGca 3'
```

E

```
miRNA  3' uuUUUCCAAU-CGACCCACACAa 5'
            | |||| |  :|| |||||||
Target 5' gcACAGGTGATTTGTGTGTGTg 3'
```

F

```
miRNA  3' uuuuuccaaucgaCCCACACaa 5'
                       |||||||
Target 5' agctcctgcccaaGGGTGTGag 3'
```