### Supplementary Table S1. Predicted results using miRDB (target score≥50)

| Target Detail | Target Rank | Target Score | miRNA Name   | Gene Symbol |
|---------------|-------------|--------------|--------------|-------------|
| 1             | 81          | hsa-miR-3182 | submission   |
| 2             | 78          | hsa-miR-4419a| submission   |
| 3             | 68          | hsa-miR-6513-3p | submission |
| 4             | 67          | hsa-miR-4753-3p | submission |
| 5             | 66          | hsa-miR-4291 | submission   |
| 6             | 63          | hsa-miR-6819-5p | submission |
| 7             | 63          | hsa-miR-4633-3p | submission |
| 8             | 60          | hsa-miR-1227-5p | submission |
| 9             | 59          | hsa-miR-6124 | submission   |
| 10            | 57          | hsa-miR-7973 | submission   |
| 11            | 56          | hsa-miR-6842-3p | submission |
| 12            | 55          | hsa-miR-6756-3p | submission |
| 13            | 55          | hsa-miR-3127-3p | submission |
| 14            | 55          | hsa-miR-4769-5p | submission |
| 15            | 55          | hsa-miR-4654 | submission   |
| 16            | 55          | hsa-miR-4516 | submission   |
| 17            | 55          | hsa-miR-4434 | submission   |
| 18            | 53          | hsa-miR-6818-3p | submission |
| 19            | 53          | hsa-miR-6872-3p | submission |
| 20            | 52          | hsa-miR-6882-3p | submission |
| 21            | 52          | hsa-miR-153-3p | submission   |
| 22            | 52          | hsa-miR-6809-3p | submission |
| 23            | 51          | hsa-miR-4778-3p | submission |
| 24            | 51          | hsa-miR-6776-3p | submission |
| 25            | 51          | hsa-miR-653-5p | submission   |
| 26            | 50          | hsa-miR-6736-3p | submission |
| 27            | 50          | hsa-miR-6844 | submission   |
| 28            | 50          | hsa-miR-422a | submission   |
| 29            | 50          | hsa-miR-378i | submission   |
| 30            | 50          | hsa-miR-378h | submission   |
| 31            | 50          | hsa-miR-378f | submission   |
| 32            | 50          | hsa-miR-378e | submission   |
| 33            | 50          | hsa-miR-378d | submission   |
| 34            | 50          | hsa-miR-378c | submission   |
| 35            | 50          | hsa-miR-378b | submission   |
| 36            | 50          | hsa-miR-378a-3p | submission |
| 37            | 50          | hsa-miR-3152-3p | submission |

### Supplementary Table S2. Predicted results using PITA (target scores≤-10 kcal/mol) - Supplementary File 1

### Supplementary Table S3. Top 100 potential targets of miR-422a - Supplementary File 2