**Figure S1** The overall survival of the FANCI high-expression group and the low-expression group in LUAD based on TCGA. LUAD, lung adenocarcinoma.

**Table S1** The up/downregulated DEMs in GSE63805

| Up/downregulated | DEMs      | adj.P.Val | P value   | logFC   |
|------------------|-----------|-----------|-----------|---------|
| Upregulated      | hsa-miR-21| 5.64E-13  | 1.21E-15  | 2.04448 |
|                  | hsa-miR-96| 6.41E-10  | 4.37E-12  | 1.89378 |
|                  | hsa-miR-135b | 1.98E-08 | 1.89E-10  | 1.84985 |
|                  | hsa-miR-193b | 9.22E-07 | 1.38E-08  | 1.0178  |
|                  | hsa-miR-183 | 1.19E-06  | 1.95E-08  | 1.42641 |
|                  | hsa-miR-1979 | 4.45E-06 | 7.88E-08  | 1.07789 |
|                  | hsa-miR-130b | 3.30E-05 | 6.29E-07  | 1.21872 |
|                  | hsa-miR-31 | 4.20E-05  | 1.09E-06  | 1.4055  |
|                  | hsa-miR-9  | 5.34E-05  | 1.45E-06  | 2.20422 |
|                  | hsa-miR-429 | 2.77E-04 | 8.67E-06  | 1.12272 |
|                  | hsa-miR-141 | 5.49E-04  | 1.92E-05  | 1.0451  |
|                  | hsa-miR-891a | 5.49E-04 | 2.02E-05  | 1.03588 |
|                  | hsa-miR-1246 | 9.02E-04 | 4.14E-05  | 1.7101  |
|                  | hsa-miR-210 | 9.34E-04  | 4.58E-05  | 1.02295 |
|                  | hsa-miR-1290 | 1.12E-02 | 7.17E-04  | 1.00711 |
|                  | hsa-miR-375 | 1.31E-02  | 9.16E-04  | 1.03906 |
| Downregulated    | hsa-miR-451 | 5.64E-13  | 1.54E-15  | -2.8142 |
|                  | hsa-miR-30a | 2.25E-10  | 9.21E-13  | -1.58344 |
|                  | hsa-miR-126 | 2.58E-10  | 1.41E-12  | -1.68116 |
|                  | hsa-miR-520e | 7.43E-09 | 6.07E-11  | -2.27211 |
|                  | hsa-miR-30d | 4.07E-08  | 4.44E-10  | -1.28665 |
|                  | hsa-miR-30b | 3.93E-07  | 4.82E-09  | -1.16183 |
|                  | hsa-miR-144 | 7.28E-07  | 9.91E-09  | -1.70085 |
|                  | hsa-miR-145 | 3.43E-05  | 7.25E-07  | -1.18285 |

DEM, differentially expressed microRNA.