Supplementary Table 1. Details for datasets from GEO.

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| GEO | Organism | Normal (N) | Tumor (N) | Submission |
| GSE14407 | Homo sapiens | Healthy ovarian surface epithelia samples (12) | Serous ovarian cancer epithelia samples (12) | Jan 13, 2009 |
| GSE18520 | Homo sapiens | Normal ovarian surface epithelium (10) | Advanced stage primary ovarian tumor (53) | Oct 11, 2009 |
| GSE27651 | Homo sapiens | Human ovarian surface epithelia samples (6) | Ovarian carcinomas (43) | Mar 02, 2011 |
| GSE36668 | Homo sapiens | Superficial scraping from normal ovary (4) | Serous ovarian carcinoma (8) | Mar 21, 2012 |
| GSE54388 | Homo sapiens | Ovarian surface epithelium samples (6) | High grade serous ovarian cancer (16) | Jan 24, 2014 |



**Supplementary Fig. 1. Cell model with Knockdown and overexpression of TMEM98.** (A) siRNA-TMEM98 decreased the expression of TMEM98 protein in SKOV3 cells (n=3, \*\**P*<0.01). (B) siRNA-TMEM98 decreased the expression of TMEM98 in IOSE80 cells (n=3, \*\*\**P*<0.001). (C) Overexpression of TMEM98 protein in SKOV3 cells was induced by TMEM98 overexpression plasmid (n=3, \*\**P* < 0.01). (D) Overexpression of TMEM98 protein in IOSE80 cells was induced by plasmid (n=3, \*\**P*<0.01).