### Supplementary Table 1. The significant Datasets of the YTHDF2 in Human Cancers (ONCOMINE database).

| Cancer type         | Sub cancer type                      | t-Test  | Fold Change | P-value     | Study                        |
|---------------------|--------------------------------------|---------|-------------|-------------|------------------------------|
| **Brain and CNS Cancer** | Anaplastic Oligoastrocytoma vs. Normal | 5.874   | 2.433       | 1.90E-04    | French Brain Statistics     |
|                     | Glioblastoma vs. Normal              | -16.491 | -2.762      | 3.97E-13    | Lee Brain Statistics        |
| **Breast cancer**    | Fibroadenoma vs. Normal              | 5.597   | 9.945       | 0.003       | Sorlie Breast Statistics    |
|                     | Fibroadenoma vs. Normal              | 6.235   | 11.69       | 0.002       | Sorlie Breast 2 Statistics  |
| **Cervical Cancer**  | Cervical Cancer vs. Normal           | 6.66    | 2.061       | 3.58E-08    | Pyeon Multi-cancer Statistics |
| **Head and Neck cancer** | Oral Cavity Carcinoma vs. Normal    | 5.523   | 2.838       | 1.78E-04    | Pyeon Multi-cancer Statistics |
| **Kidney cancer**    | Renal Wilms Tumor vs. Normal         | 4.817   | 2.3         | 0.002       | Yusenko Renal Statistics    |
| **Other cancer**     | Parathyroid Hyperplasia vs. Normal   | 4.171   | 2.55        | 8.54E-04    | Morrison Parathyroid Statistics |
|                     | Parathyroid Gland Adenoma vs. Normal | 5.064   | 2.038       | 3.88E-04    | Morrison Parathyroid Statistics |