

| Gene     | Estimate | SE   | <i>p</i> -value | adjusted <i>p</i> -value (BH) |
|----------|----------|------|-----------------|-------------------------------|
| AHCY     | -1.46    | 0.25 | 0.00            | 0.00                          |
| AKR1C1   | 3.63     | 0.56 | 0.00            | 0.00                          |
| ARHGEF7  | 0.77     | 0.55 | 0.16            | 0.18                          |
| BIRC5    | -2.28    | 0.56 | 0.00            | 0.00                          |
| CADM1    | 0.39     | 0.43 | 0.36            | 0.40                          |
| CAMTA1   | 2.24     | 0.37 | 0.00            | 0.00                          |
| CAMTA2   | 1.15     | 0.51 | 0.02            | 0.04                          |
| CD44     | 1.75     | 0.57 | 0.00            | 0.00                          |
| CDCA5    | -1.21    | 0.95 | 0.20            | 0.23                          |
| CDKN3    | -1.59    | 0.46 | 0.00            | 0.00                          |
| CHD5     | 8.01     | 1.32 | 0.00            | 0.00                          |
| CLSTN1   | 2.56     | 0.92 | 0.01            | 0.01                          |
| DDC      | 3.46     | 0.86 | 0.00            | 0.00                          |
| DPYSL3   | 1.58     | 0.28 | 0.00            | 0.00                          |
| ECEL1    | 3.83     | 0.79 | 0.00            | 0.00                          |
| ELAVL4   | 1.12     | 0.48 | 0.02            | 0.03                          |
| EPB41L3  | 2.98     | 0.66 | 0.00            | 0.00                          |
| EPHA5    | 5.14     | 1.57 | 0.00            | 0.00                          |
| EPN2     | 2.83     | 0.67 | 0.00            | 0.00                          |
| FYN      | 0.88     | 0.26 | 0.00            | 0.00                          |
| GNB1     | 0.56     | 0.26 | 0.03            | 0.05                          |
| HIVEP2   | 2.27     | 0.59 | 0.00            | 0.00                          |
| INPP1    | 1.23     | 0.57 | 0.03            | 0.04                          |
| MAP2K4   | 0.57     | 0.34 | 0.09            | 0.12                          |
| MAP7     | 2.72     | 0.80 | 0.00            | 0.00                          |
| MAPT     | 2.25     | 0.49 | 0.00            | 0.00                          |
| MCM2     | -1.68    | 0.48 | 0.00            | 0.00                          |
| MRPL3    | -0.74    | 0.28 | 0.01            | 0.01                          |
| MTSS1    | 1.03     | 0.41 | 0.01            | 0.02                          |
| MYCN     | -2.12    | 0.96 | 0.03            | 0.04                          |
| NHLH2    | -7.94    | 4.08 | 0.05            | 0.07                          |
| NME1     | -1.52    | 0.32 | 0.00            | 0.00                          |
| NRCAM    | 2.23     | 0.38 | 0.00            | 0.00                          |
| NTRK1    | 6.75     | 1.04 | 0.00            | 0.00                          |
| ODC1     | -2.18    | 0.33 | 0.00            | 0.00                          |
| PAICS    | -0.64    | 0.45 | 0.15            | 0.18                          |
| PDE4DIP  | 1.27     | 0.38 | 0.00            | 0.00                          |
| PIK3R1   | 1.41     | 0.40 | 0.00            | 0.00                          |
| PLAGL1   | 1.59     | 0.96 | 0.10            | 0.12                          |
| PLAT     | 2.73     | 1.26 | 0.03            | 0.04                          |
| PMP22    | 2.00     | 0.59 | 0.00            | 0.00                          |
| PRAME    | -3.47    | 1.02 | 0.00            | 0.00                          |
| PRDM2    | 0.27     | 0.31 | 0.38            | 0.41                          |
| PRKACB   | 1.09     | 0.48 | 0.02            | 0.04                          |
| PRKCZ    | 1.20     | 0.40 | 0.00            | 0.01                          |
| PTN      | 1.13     | 0.75 | 0.13            | 0.16                          |
| PTPRF    | 1.06     | 0.65 | 0.10            | 0.12                          |
| PTPRH    | 5.41     | 1.18 | 0.00            | 0.00                          |
| PTPRN2   | 2.93     | 0.68 | 0.00            | 0.00                          |
| QPCT     | 2.70     | 0.65 | 0.00            | 0.00                          |
| SCG2     | 2.65     | 0.78 | 0.00            | 0.00                          |
| SLC25A5  | -1.52    | 0.31 | 0.00            | 0.00                          |
| SLC6A8   | 0.22     | 0.32 | 0.50            | 0.53                          |
| SNAPC1   | -0.11    | 0.45 | 0.81            | 0.84                          |
| TNFRSF25 | 0.11     | 0.72 | 0.88            | 0.90                          |
| TYMS     | -1.94    | 0.40 | 0.00            | 0.00                          |
| ULK2     | 0.69     | 0.36 | 0.05            | 0.07                          |
| WSB1     | 0.06     | 0.47 | 0.90            | 0.90                          |

S1 Table: Results for SIOPEN data (UCNR). The table shows parameter estimates and their standard errors (SE) for each of the 58 microRNAs, as well as the two-sided *p*-values and adjusted *p*-values (using the Benjamini and Hochberg procedure) for testing for no differential expression. 43 out of the 58 microRNAs are differentially expressed at the 5% false discovery rate.