Supplementary Materials

Table S1
Part of differentially expressed genes in CHODL over-expressed cells

| Gene             | Up-regulated | Fold-change (p<0.05) | Gene          | Down-regulated | Fold-change (p<0.05) |
|------------------|--------------|----------------------|---------------|----------------|---------------------|
| LOC100129203     | 23           |                      | TRIM17        | 11             |                     |
| RAET1E-AS1       | 17           |                      | AKR1C1        | 10             |                     |
| HOXD-AS2         | 15           |                      | PLSCR3        | 10             |                     |
| CHRNA1           | 13           |                      | CDH11         | 9              |                     |
| RPRML            | 13           |                      | TULP2         | 8              |                     |
| SERTAD4          | 13           |                      | CXCR2         | 8              |                     |
| PRR34            | 13           |                      | PTGS2         | 7              |                     |
| ANGPTL6          | 13           |                      |               |                |                     |
| LOC100506747     | 13           |                      |               |                |                     |
| PCDH8            | 13           |                      |               |                |                     |

Figure S1

Figure S1 Classified the differentially expressed genes by GSEA.

Figure S2
Figure S2 Scores indicated CHODL levels in representative tumor tissues as determined by IHC staining. Scores were calculated by intensity and percentage of stained cells. Scale bars, 100 um.