Table S1. The information of primary antibodies used in western blotting

| Target                | Supplier                      | Cat. No. | Application | Dilution |
|-----------------------|-------------------------------|----------|-------------|----------|
| β-tublin              | ZEN BIO                       | 200608   | WB          | 1:1000   |
| GAPDH                 | Sigma-Aldrich                 | G9545    | WB          | 1:1000   |
| PCDH8                 | Bioss                         | bs-11114R| WB          | 1:1000   |
| cyclinD3              | Cell Signaling Technology     | 2936     | WB          | 1:1000   |
| CDK4                  | Cell Signaling Technology     | 12790    | WB          | 1:1000   |
| CDK6                  | Cell Signaling Technology     | 3136     | WB          | 1:1000   |
| P21                   | Cell Signaling Technology     | 2947     | WB          | 1:1000   |
| P27                   | Cell Signaling Technology     | 3686     | WB          | 1:1000   |
| PI3K                  | ZEN BIO                       | 350172   | WB          | 1:1000   |
| AKT                   | Cell Signaling Technology     | 4685     | WB          | 1:1000   |
| Phospho-AKT (Thr308)  | Cell Signaling Technology     | 13038    | WB          | 1:1000   |
| Phospho-mTOR (Ser2448)| Cell Signaling Technology     | 5536     | WB          | 1:1000   |
| 4E-BP1                | Cell Signaling Technology     | 9644     | WB          | 1:1000   |
| Phospho-4E-BP1 (Thr37/46)| Cell Signaling Technology | 2855     | WB          | 1:1000   |
| S6                    | Cell Signaling Technology     | 2217     | WB          | 1:1000   |
| P70 S6 kinase         | Cell Signaling Technology     | 9202     | WB          | 1:1000   |
Table S2 The reagents used in ISH

| Reagents                          | Cat. No.          | Supplier         |
|----------------------------------|-------------------|------------------|
| Anti-Digoxigenin-AP, Fab fragments | 11093274910150U   | Roche            |
| Roche DIG Wash and Block Buffer set | 11585762001       | Roche            |
| microRNA ISH Buffer Set          | 90000             | Exiqon           |
| Proteinase K                     | P4850             | SIGMA            |
| BCIP/NBT Substrate kit           | SK-5400           | VECTOR Laboratories |