Supplementary Table 1. Primers sequences and OTUD3 shRNA sequences.

| Name         | Sequence                        |
|--------------|---------------------------------|
| OTUD3 forward| 5' - GGCCGCTAATACGACTC ACT-3'   |
| OTUD3 reverse| 5' - TTCTGTGGCTGAAAACCCCT -3'   |
| ACTN4 forward| 5' - GGGCAGAAGAGATTGTGGAC -3'   |
| ACTN4 reverse| 5' - TTGTTCAAGGGTGACAGG -3'     |
| GAPDH forward| 5' - CCATGGGGGAAGGTGAAGGTC -3'  |
| GAPDH reverse| 5' - TGAAGGGGTCAATGGATGCA -3'   |
| shOTUD3-1    | 5' - TGAAATCGGATGC-3'           |
| shOTUD3-2    | 5' - GAGTTACACATCGCATATC -3'    |