

**Supplementary information, Figure S3** Knockdown of *Twa1* reduces the protein levels of endogenous Twa1 in HEK-293 cells. The cells transfected with lentivirus-based shRNAs targeting different regions of *Twa1* mRNA (sh-Twa1 and sh-Twa1-2) or control shRNA (sh-ctr) were subjected to western blotting with the indicated antibodies (full immunoblot). GAPDH was used as a loading control.