



**Supplementary information, Figure S2** Effect of TALEN-mediated CSPG4 knockout on the susceptibility of HeLa cells to TcdB. **(A)** Microscopic image of HeLa cells harbouring the *CSPG4*-targeting TALEN constructs after exposure to  $70 \text{ pg ml}^{-1}$  TcdB for 8 hr. Scale bar:  $200 \text{ }\mu\text{m}$ . The white arrow points to the colony of cells that was toxin resistant. **(B)** Immunoblot analysis of CSPG4 expression in five randomly selected TALEN HeLa cell clones that demonstrated TcdB resistance. A rabbit monoclonal antibody against human CSPG4 was used. The  $\beta$ -tubulin bands were measured as internal controls.