



**Figure S1** TALEN activity in HEK 293 cells.

Cotransfection of reporter plasmids with TALEN-Rik2 or TALEN-Fus-15 vectors into HEK293 cells leads to nuclease dependent gene repair and  $\beta$ -galactosidase expression, as compared to the transfection of the reporter alone. Values are expressed as nuclease stimulated increase of  $\beta$ -galactosidase activity as compared to background levels without nuclease vectors (-) and to a TALEN/reporter standard (Control). The error bars represents s.d. in three replicates.