

SUPPLEMENTARY FIG. S4. Supplemental data of *RANKL* activation and cytotoxicity analysis in HEK293T cells. **(A)** Detailed design of sgRNAs used for the activation of *RANKL*, related to Figures 3A and B. **(B)** Dose response of the vectors transfected (50 ng vs. 100 ng in total), related to Figure 3C. Data are shown as the mean \pm S.D. (n=4). **(C)** Viability of the cells transfected with the vectors shown at the left. Data are shown as the mean \pm S.D. (n=4). **p<0.01, *p<0.05. **(D)** Comparison of activity between the MS2-22sTag (TREE) and dCas9-22sTag systems, by reporter assay. For dCas9-4× and 8×22sTag, sgRNAs without MS2 stem loops were used instead of sgRNA2.0. Data are shown as the mean \pm S.D. (n=4). N.S., not significant.