



**Supplementary Data 5.** Effect of Cas9 codon-optimisation and sgRNA scaffold on the efficiency of targeted mutagenesis at *PDS1* in *Nicotiana benthamiana* protoplasts (h = human; p= plant; ES = extended stem; T= terminator). Error bars = standard error of the mean; n=4.

Note: Numbers of reads are normalised to transfection efficiency (see methods).