

Supporting Table S1: Flow cytometry analysis of cells transfected with mtZFNs

	% live cells	% dual transfected (of total)
mock mock	65.8	27.2 (17.3)
NARPd(+) mock	59.1	23.6 (13.5)
mock COMPa(-)	63.2	25.3 (15.4)
NARPd(+) COMPa(-)	66.9	24.6 (16)

To assess whether mtZFN constructs effect on cell viability, we co-transfected equal numbers of NARP m.8993T>G cells with plasmids encoding either NARPd (+)/mCherry or COMPa(-)/GFP, or empty vectors in all possible combinations. Cells were analysed 24 hours post-transfection with a flow cytometer, and percentages of total live cells and dual-transfected live cells were calculated. No obvious differences were observed between the conditions, suggesting that no cytotoxic effect is exerted by mtZFN expression or nucleolytic cleavage.