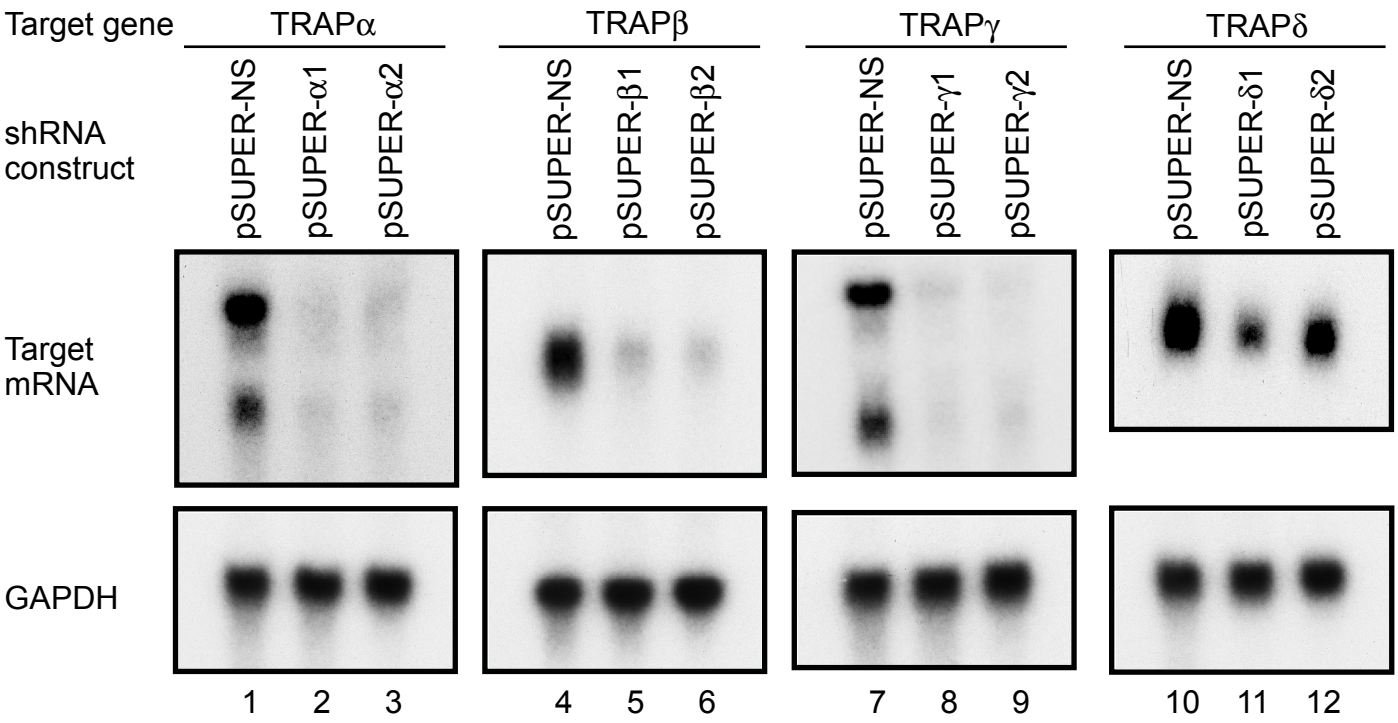
a

construct	target region (bp, 5' - 3')	target sequence (5' - 3')
pSUPER-α1	197-215	GAAGATGAACCCACAGATT
α2	116-134	GAAACAGTAGAAGATTCCA
β1	166-184	CGTGGAACTATCTGATGAT
β2	142-160	TGTTGGCTCAAGTGCTGCA
γ1	343-361	GGAGAAAGATGAAAGAATC
γ2	357-375	GAATCTTGTGGAAGAAGAA
δ1	296-314	GGCACCTATGAGGTTAGAT
δ2	355-373	GAGGAATAACGAGGACATT

b



supplementary Fig 3. shRNA target sequences used in this study and control experiments for RNAi. (A) List of the shRNA target sequences used in this study. The nucleotide coordinates of the respective cDNAs ("target region") are indicated with 1 representing the adenosine of the start codon. (B) Expression of each TRAP subunit is knocked down effectively by RNAi, with the exception of the δ subunit. HEK293 cells were transfected with shRNA expression vectors containing a siRNA sequence specific to a TRAP subunit, or a non-specific sequence (NS). Total RNA was isolated 72 h after transfection, and the efficiency of RNAi knockdown examined by Northern blotting using 10 μg of total RNA and [α-^{32}P]-dCTP-labeled cDNA probes specific to the human TRAP subunits (α, β, γ, δ) and human GAPDH. Two different shRNA target sequences were tested for each subunit. Note that in general, the constructs pSUPER-NS, α1, β1, γ1 and δ1 were used in the following experiments.