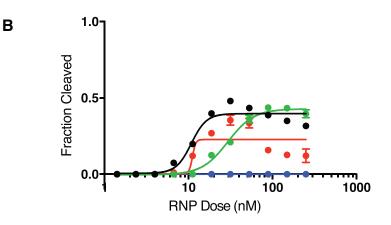


	Sequence	BLT cleavage efficiency	A_{max}
- On-target	GGGTGAGTGAGTGTGTGCGTG	0.98	0.87
- Off-target 1	GGGT A AGTGAGTGTG <mark>A</mark> GCGTG	0.97	0.93
 Off-target 2 	GGGTGA T TGA T TGTGTGCGTG	0.50	0.23
 Off-target 3 	GGGTGAGTGAGTGTG G GC C TG	0.05	0.04



	Sequence	BLT cleavage efficiency	A _{max}
- On-target	GGCCTCCCCAAAGCCTGGCCA	0.43	0.40
- Off-target 1	GG <mark>G</mark> CTCCCCAAAGC T TGGCCA	0.69	0.43
Off-target 2	GGC T TCC T CAAAGCCTGGCCA	0.29	0.23
 Off-target 3 	GGCCT <mark>G</mark> CGCAAAGCCTGGCCA	0.08	0.00

SUPPLEMENTARY FIG. S2. Individual templates validate library results in biochemical cleavage assays. (A) Three representative doubly mismatched targets were subjected to increasing doses of VEGFA Cas9 RNP. Rank ordering of the cleavage efficiency in individual testing is consistent with BLT-measured results. A_{max} represents the maximum sigmoidal fitted cleavage efficiency. (B) Representative doubly mismatched targets from EMX1 off-target data were subjected to increasing doses of Cas9 RNP.