

**Table S3.** Sequences of all DNA oligonucleotides. Related to STAR methods.

oligos for :	oligo name	target	sequence (5'-3')
Stimulation of MDA5 2CARD-ZF (Figure 1B)	DNA-ZBS 1X	N/A	G GCGTGGGCG GTGAT
	DNA-ZBS 2X		G GCGTGGGCG GTG GCGTGGGCG T
	DNA-ZBS 3X		G GCGTGGGCG GTG GCGTGGGCG GTG GCGTGGGCG T
	DNA-ZBS 4X		G GCGTGGGCG GTG GCGTGGGCG GTG GCGTGGGCG GTG GCGTGGGCG T
RNaseH assay (Figure 5D)	RNaseH_Alu1_20a	consensus Alu (+)	TTTTGTATTTGTAGTAGAGA
	RNaseH_Alu1_20b		TTTTGTATTTTTGTAGTAGAGA
	RNaseH_Alu1_20c		TTTTGTGTTTTTAGTAGAGA
	RNaseH_Alu2_20a	consensus Alu (-)	TCTCTACTACAAATACAAAA
	RNaseH_Alu2_20b		TCTCTACAAAAAATACAAAA
	RNaseH_Alu2_20c		TCTCTACTAAAAACACAAAA
	RNaseH_Alu2_20d		TCTCTATGAAAAACACAAAA
GAPDH_rv	<i>GAPDH</i>	TGAAGTCAGAGGAGACCACC	
Alu RT-qPCR (Figure 5F)	AluConsF	consensus Alu	GCCGGGCGCGGTGGCTCACGCCTGTAATCC CAGCAC
	AluConsR1		ATTCTCCTGCCTCAGCCTCCCGAGTAGCTGG GA
	AluConsR2		ATCCTCCCACCTCAGCCTCCCGAGTAGCTGG GA
<i>In vitro</i> transcription templates	T7prom_NICN1_Alu1_F	<i>NICN1</i> Alu (+)	TAATACGACTCACTATAGGGAGACACGTGT CTCTAGCAAACCAGG
	NICN1_Alu1_R		CCGGAATTCGGCTATGTCAGATGGCAGAAG G
	T7prom_NICN1_Alu2_F	<i>NICN1</i> Alu (-)	TAATACGACTCACTATAGGGAGACAAAGCA CATCTCTATCCTTTCTCC
	NICN1_Alu2_R		CCGGAATTCTTATGCTGAGCATATCTCTTGG AAAGG
	T7prom_BPNT1_Alu1_F	<i>BPNT1</i> Alu (+)	TAATACGACTCACTATAGGGCAAGCCGAGT TCCAGAATCTATTAA
	BPNT1_Alu1_R		CTCCTAGCTAAGTAAATGAACTTTAAGTAC TTTTGGG
	T7prom_BPNT1_Alu2_F	<i>BPNT1</i> Alu (-)	TAATACGACTCACTATAGGGTTCAATGAAC ATTCTATCTTCTAAACC
	BPNT1_Alu2_R		GAGTGAGATTCCAGAAAAAATTGTGCC

	T7prom_DESI1 Alu1_F	<i>DESI1</i>	TAATACGACTCACTATAGGGACCAAGGGAT GGGA
	DESI1_Alul_R	Alu (-)	CCATATCAAAGGTATTTTCTGGCC
	T7prom_DESI1 Alu2_F	<i>DESI1</i>	TAATACGACTCACTATAGGAAAGAATAATG ATGTGAGGCC
	DESI1_Alul2_R	Alu (+)	GGGAAAGTCCCTATCAGAAACG
	T7prom_pre- let7d_F	pre-let7d	TAATACGACTCACTATAGGGCCAAGTAGAA GACCAGCAAG
	pre-let7d_R		CGAGCAAGGAAACAGGTTATCGG
	T7prom_28SrR NA ES27L_F	ES27L	TAATACGACTCACTATAGGGGGCTGGGGCG CGAAGC
	28SrRNA_ES2 7L_R		ATATGGATCCCAGCTGGGGCGATCCAC
	T7prom_OTUD 7B_hAT1_F	<i>OTUD7B_</i>	TAATACGACTCACTATAGGAAGCAGTGAGA TTCCAAAGGAA
	OTUD7B_hAT 1_R	hAT1	TTCCCTCCTCCTAATCTCAGTCC
	T7prom_OTUD 7B_hAT2_F	<i>OTUD7B_</i>	TAATACGACTCACTATAGGGAAGTGAGGCT GAATTGAAT
	OTUD7B_hAT 2_R	hAT2	TGTGATGGGGGTGGAGGCGCA
	5_T7prom_NB PF1_L1_F	<i>NBPF1_L</i> 1	TAATACGACTCACTATAGGTGCAGAATATG AGCAATGC
	NBPF1_L1_R		GAGACCCAAAATTTGCAGCGTAGAG
non-Alu genes qPCR	18S-qPCR-F	18S	CGGCGACGACCCATTCGAAC
	18S-qPCR-R		GAATCGAACCCCTGATTCCCCGTC
	GAPDH-qPCR-F	<i>GAPDH</i>	TGATGACATCAAGAAGGTGGTGAAG
	GAPDH-qPCR-R		TCCTTGGAGGCCATGTGGGCCAT
	ISG15-qPCR-F	<i>ISG15</i>	GCAGATCACCCAGAAGATTG
	ISG15-qPCR-R		CATTTGTCCACCACCAGCAG
	IFN $\beta$ -qPCR-F	<i>MDA5</i>	GGGGCATGGAGAATAACTCA
	IFN $\beta$ -qPCR-R		AGCTGACACTTCCTTCTGCC
	MDA5-qPCR-F	<i>IFN <math>\beta</math></i>	CTTTCGAAGCCTTTGCTCTG
	MDA5-qPCR-R		CAGGAGAGCAATTTGGAGGA
	T7 pol-qPCR-F	<i>T7 pol</i>	CGCTAAGAACGACTTCTCTGAC
	T7 pol-qPCR-R		TAAGTTGACGCTCAAACATCTTGC