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Supporting Information

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Table S1 The target genes of EBOV-encoded miRNAs

EBOV-miRNA	Target gene	Annotion	NCBI No.	Minimum of free energy(kcal mol^{-1})
EBOV-miR-2-5p	GABRB3	gamma-aminobutyric acid (GABA) A receptor, beta 3	NM000814	–23.35
EBOV-miR-2-5p	C11orf41	chromosome 11 open reading frame 41	NM012194	–22.57
EBOV-miR-2-5p	HOXD10	homeobox D10	NM002148	–22.37
EBOV-miR-2-5p	ODZ4	odz, odd Oz/ten-m homolog 4 (Drosophila)	NM001098816	–21.92
EBOV-miR-2-5p	RASSF2	Ras association (RalGDS/AF-6) domain family member 2	NM014737	–21.91
EBOV-miR-2-5p	ZBTB44	zinc finger and BTB domain containing 44	NM014155	–21.54
EBOV-miR-2-5p	MED14	mediator complex subunit 14	NM004229	–21.5
EBOV-miR-2-5p	EGR3	early growth response 3	NM001199880	–21.01
EBOV-miR-2-5p	GABRG2	gamma-aminobutyric acid (GABA) A receptor, gamma 2	NM000816	–20.76
EBOV-miR-2-5p	EIF1B	eukaryotic translation initiation factor 1B	NM005875	–20.68
EBOV-miR-2-5p	PRRT2	proline-rich transmembrane protein 2	NM145239	–20.47
EBOV-miR-2-5p	NF1	neurofibromin 1	NM000267	–20.3
EBOV-miR-2-5p	ZC3H12C	zinc finger CCCH-type containing 12C	NM033390	–20.09
EBOV-miR-2-5p	DDX52	DEAD (Asp-Glu-Ala-Asp) box polypeptide 52	NM007010	–20.04
EBOV-miR-2-3p	FOXN3	forkhead box N3	NM001040284	–26.28
EBOV-miR-2-3p	NDST1	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1	NM001085471	–24.51
EBOV-miR-2-3p	RAP1B	RAP1B, member of RAS oncogene family	NM005197	–24.51
EBOV-miR-2-3p	SNX1	sorting nexin 1	NM182623	–23.34
EBOV-miR-2-3p	SOCS4	suppressor of cytokine signaling 4	NM182704	–22.68
EBOV-miR-2-3p	RNF43	ring finger protein 43	NM017763	–22.12
EBOV-miR-2-3p	EFNB3	ephrin-B3	NM001010898	–21.89
EBOV-miR-2-3p	OLFM3	olfactomedin 3	NM001406	–21.61
EBOV-miR-2-3p	SLC6A17	solute carrier family 6, member 17	NM080867	–21.09
EBOV-miR-2-3p	FAM131C	family with sequence similarity 131, member C	NM001010942	–20.96
EBOV-miR-2-3p	PPM1H	protein phosphatase 1H (PP2C domain containing)	NM003099	–20.93
EBOV-miR-2-3p	PAPD5	PAP associated domain containing 5	NM002945	–20.58
EBOV-miR-2-3p	SELV	selenoprotein V	NM058170	–20.18
EBOV-miR-2-3p	RPA1	replication protein A1, 70kDa	NM020700	–20.13
EBOV-miR-3-3p	TGFBR2	transforming growth factor, beta receptor II (70/80kDa)	NM005779	–24.46
EBOV-miR-3-3p	MAGI1	membrane associated guanylate kinase, WW and PDZ domain containing 1	NM001080439	–23.44
EBOV-miR-3-3p	OPRK1	opioid receptor, kappa 1	NM004742	–20.77
EBOV-miR-3-3p	THSD4	thrombospondin, type I, domain containing 4	NM024817	–20.47
EBOV-miR-3-3p	LHFPL2	lipoma HMGIC fusion partner-like 2	NM001024847	–20.46
EBOV-miR-3-3p	MED1	mediator complex subunit 1	NM003242	–20.46
EBOV-miR-3-3p	HSF5	heat shock transcription factor family member 5	NM000912	–20.25

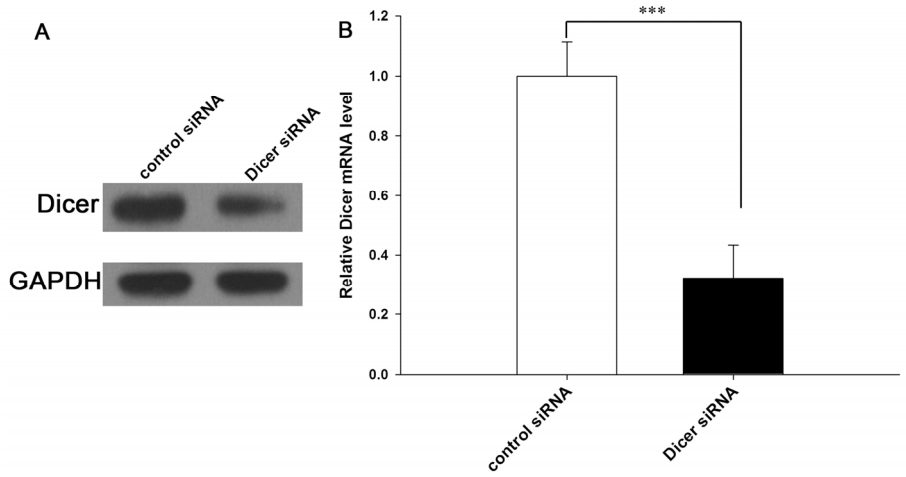

Figure S1 Knockdown of Dicer reduces the expression of EBOV-encoded miRNAs. A, Dicer protein was knocked down by RNAi and confirmed by Western blot. GAPDH was used as a loading control. B, Dicer mRNA was knocked down by RNAi and confirmed by qRT-PCR. Significant differences in expression levels were detected by Student's *t*-test (*, $P<0.05$; **, $P<0.01$; ***, $P<0.001$).

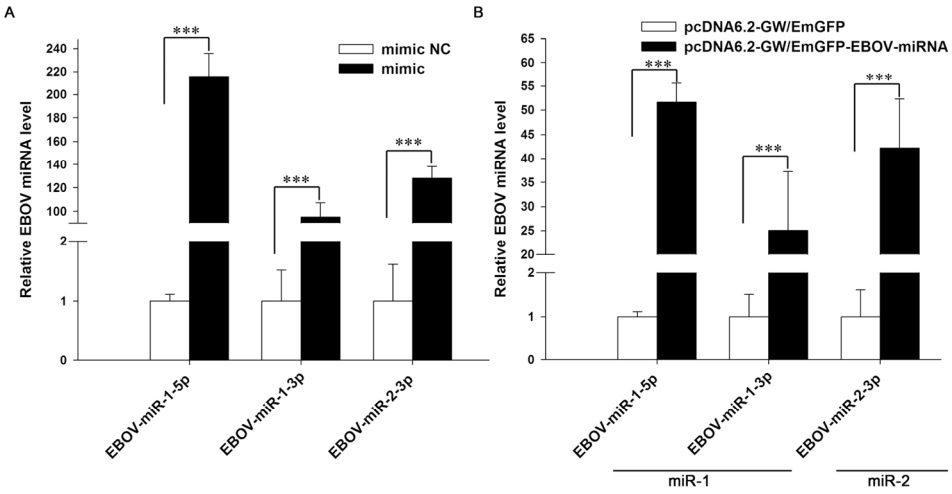

Figure S2 The EBOV-encoded miRNAs levels in HEK293T cells. A, Quantitative RT-PCR analysis of EBOV-encoded miRNAs levels in HEK293T cells treated with mimic NC, or EBOV-miRNAs mimics. B, Quantitative RT-PCR analysis of EBOV-encoded miRNAs levels in HEK293T cells treated with pcDNA6.2-GW/EmGFP, or pcDNA6.2-GW/EmGFP-EBOV-pre-miRNAs. Significant differences in expression levels were detected by Student's *t*-test (*, $P<0.05$; **, $P<0.01$; ***, $P<0.001$).