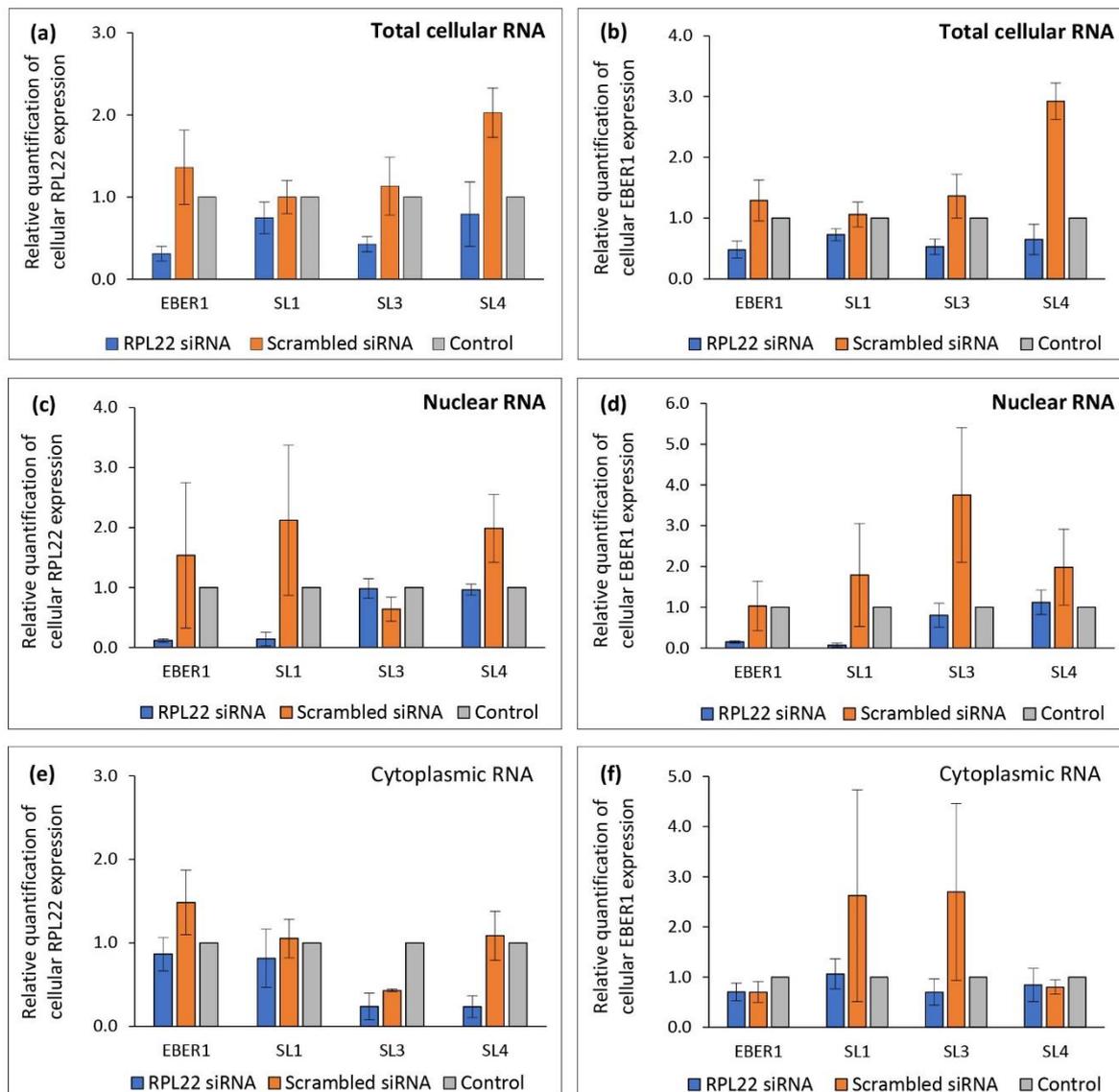
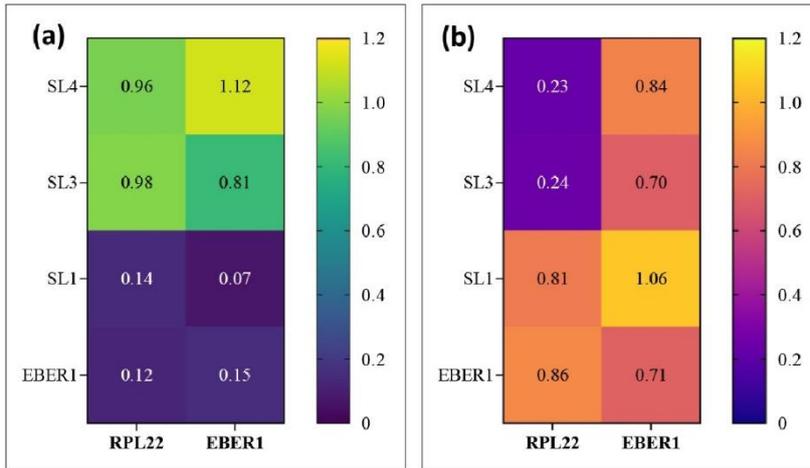


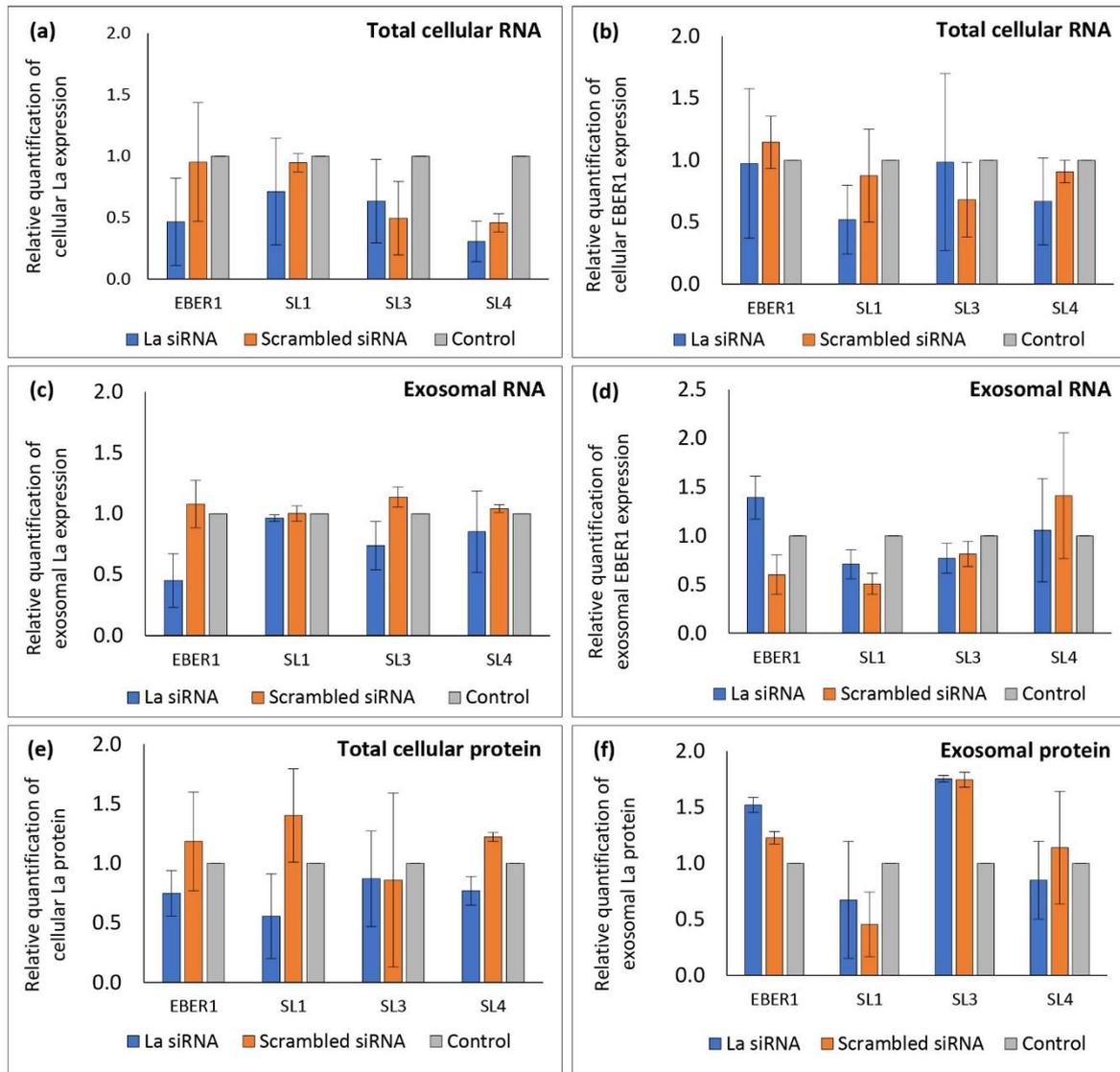
Supplementary Material



Supplementary Figure S1: Impact of RPL22 silencing on EBER1 expression. RNA was isolated from the various fractions using TRIzol method, and 5 μ g was DNase treated and reverse transcribed to cDNA. 100 ng was used for the RT-PCR to amplify RPL22 and EBER1 genes. (a) total cellular RPL22 expression, (b) total cellular EBER1 expression, (c) nuclear RPL22 expression, (d) nuclear EBER1 expression, (e) cytoplasmic RPL22 expression, and (f) cytoplasmic EBER1 expression. Relative expression was calculated using the $2^{-\Delta\Delta CT}$ method. Experiments were performed in duplicates and repeated two times. Data are expressed as mean (\pm SEM) of the two experiments relative to the control.



Supplementary Figure S2: Statistical correlation analysis of the impact of RPL22 silencing on the subcellular expression of EBER1. Correlation of (a) nuclear and (b) cytoplasmic expression. Correlation analysis was performed using Prism 8.



Supplementary Figure S3: Impact of La silencing on EBER1 expression. RNA was isolated from various fractions using TRIzol method, 5 μ g of the DNase treated and reverse transcribed to cDNA. 100 ng was used for the RT-PCR to amplify La and EBER1 genes. (a) total cellular expression of La RNA, (b) total cellular EBER1 expression, (c) exosomal expression of La RNA, (d) exosomal expression of EBER1. Relative expression was calculated using the $2^{-\Delta\Delta CT}$ method. Total and exosomal proteins were isolated using RIPA buffer and separated on PAGE for Western blot. (e) total cellular expression of La protein, and (f) exosomal expression La protein. Experiments were performed in duplicates and repeated three times. Data are expressed as mean (\pm SEM) of the three experiments relative to the control.

Supplementary Table S1: List of primers used in this study

S/N	Name	Orientation	Sequences (5' → 3')	Primer annealing temp. (°C)	Product Length (bp)	Reference
1	β-actin	Forward	TGTTACCAACTGGGACGACA	54	139	(Ahmed <i>et al.</i> , 2021)
2	β-actin	Reverse	CTGGGTCATCTT TTCACGGT	54	139	(Ahmed <i>et al.</i> , 2021)
3	Spliced β-actin	Forward	TGAGCTGCGTGTGGCTCC	60	247	(Ghazawi <i>et al.</i> , 2006)
4	Spliced β-actin	Reverse	GGCATGGGGGAGGGCATAACC	60	247	(Ghazawi <i>et al.</i> , 2006)
5	Unspliced β-actin	Forward	CCAGTGGCTTCCCCAGTG	60	200	(Ghazawi <i>et al.</i> , 2006)
6	Unspliced β-actin	Reverse	GGCATGGGGGAGGGCATAACC	60	200	(Ghazawi <i>et al.</i> , 2006)
7	RNU6	Forward	CTCGCTTCGGCAGCACA	57	107	
8	RNU6	Reverse	AACGCTTCACGAATTTGCGT	57	107	
9	La (Ag)	Forward	GGATAGACTTCGTCAGAGGAGCA	55	443	This study
10	La (Ag)	Reverse	CTGGTCTCCAGCACCATTTTCTG	55	443	This study
11	La (SSB)	Forward	TAATGAAAAGATGGCTGCC	55	128	This study
12	La (SSB)	Reverse	AAGGTACCCAGCCTTCATCC	55	128	This study
13	L22 (154)	Forward	TGTGCTCCTTCAGTGTGCT	55	154	This study
14	L22 (154)	Reverse	CCCTCTGCTGGAGACGAAAG	55	154	This study
15	Hygro P3	Forward	AATTCAGCGAGAGCCTGACC	55	149	
16	Hygro P4	Reverse	GCTCGTCTGGCTAAGATCGG	55	149	This study
17	EBER-1 outer	Forward	cccagatctAGGACCTACGCTGCCC	57	172	(Ahmed <i>et al.</i> , 2021)
18	EBER-1 outer	Reverse	cccaagcttAAAACATGCGGACCACCAGC	57	172	(Ahmed <i>et al.</i> , 2021)
19	SL1	Forward	cccagatctAGGACCTACGCTGGAGACGT	57	166	This study
20	SL1	Reverse	CACACGTCTCCAGCGTAGGTC	57	44	This study
21	SL3	Forward	CTGTAGCCACTGAGGACGGTG	57	118	This study
22	SL3	Reverse	CACCGTCCTCAGTGGCTACAGC	57	94	This study
23	SL4	Forward	CGGGTGGCCGTCTTCGGTC	57	89	This study
24	SL4	Reverse	GAAGACGGCCACCCGGGA C	57	134	This study

Lower case is the flanking restriction enzymes recognition sites

Supplementary Table S2: List of antibodies used in this study

S/N	Antibody	Clone	Cat. Number	Working dilution
1	Anti-La	D19B3	5034s	1:200
2	Anti-La	B-8	SC-166274	1:200
3	Anti-L22	H06		1:500
4	Anti-CD63	E-12	SC-365604	1:200
5	Anti-flotillin 1	EPR6041	Ab133497	1:1000
6	Anti-GAPDH	6C5	ab8245	1:5000
7	Anti-Histone 3	D1H2	12648s	1:1000
8	Anti-CDT1	EPR17891	ab202067	1:1000
9	Anti- β -actin	8226	ab8226	1:5000
10	Anti-STIM1	A-8	SC-166840	1:500
11	Anti-SERCA2	F-1	SC-376235	1:500
12	Anti-digoxin	21H8	ab119345	1:50

Supplementary Table S3: 57 predicted human proteins that interact with EBER1

S/N	Protein ID	S/N	Protein ID	S/N	Protein ID
1	SFPQ	21	RS19	41	ATX1L
2	SRSF2	22	RT17	42	SRP19
3	TADBP	23	RS16	43	CELF4
4	LN28B	24	RBM8A	44	DHX58
5	SRSF1	25	NIP7	45	RM23
6	SRSF1	26	AUHM	46	IF1AX
7	IF2A	27	RM03	47	TIA1
8	C1D	28	RLA0	48	RS18
9	YBOX1	29	SURF6	49	IMP3
10	NH2L1	30	RL31	50	RBM4
11	KHDR2	31	RPP14	51	PRKRA
12	RPF1	32	SARNP	52	CPS4L
12	RS15A	33	KHDR3	53	CHSP1
14	AIMP1	34	PPIE	54	ABC3G
15	LSM1	35	MGN2	55	RBM4B
16	OOEP	36	RS25	56	CSTF3
17	SRP14	37	RL26	57	NELFE
18	RL22	38	RL28		
19	THOC6	39	KIN17		
20	MGN	40	SRSF6		

Source code: Uniprot protein ID [https://www.uniprot.org/uniprotkb/\(proteinID\)_human](https://www.uniprot.org/uniprotkb/(proteinID)_human)