

Supplementary Table 1. Proteins from the EGFP-L IP sample (in the context of the mini-replicon) identified by LC MS/MS by two or more peptides and showing a ratio of relative expression level increased more than 2-fold compared to the same proteins from the control IP sample. EGFP-L was expressed in the context of the HRSV mini-replicon system. The gene name, protein name, human ortholog name, a brief description of the protein, the number of peptides used to identify and quantify the protein and the fold change of the protein between the bait and control systems is shown for each protein. Individual ion scores are indicated in the form of a Mascot derived (-10 log (PEP)) Confidence score where >13 indicated identity or extensive homology (p < 0.05).

Gene Name	Protein Name	Human ortholog	Description	Peptides identified	Peptides used for quant	Binding ratio	Confidence score
Hist2h2aa1	H2A2A		Histone H2A type 2-A	2	2	33.0	139.9
L_HRSVA	L_HRSVA		HRSV RNA-directed RNA polymerase L	25	24	20.6	2431.6
N_HRSVA	NCAP_HRSVA		HRSV Nucleoprotein	9	9	17.9	996.9
Stip1	STIP1	STIP	Stress-induced-phosphoprotein 1	13	2	15.5	1088.2
Sfn	1433S	SFN	14-3-3 protein sigma	4	1	9.6	106.3
Hsp90aa1	HS90A	HSP90AA1	Heat shock protein HSP 90-alpha	5	1	8.5	462.0
Dnaja2	DNJA2	DNAJA2	DnaJ homolog subfamily A member 2	3	3	7.5	359.3
Myof	MYOF	MYOF	Myoferlin	2	2	6.2	95.3
Dnajb6	DNJB6	DNAJB6	DnaJ homolog subfamily B member 6	2	1	4.4	167.8
P_HRSVA	PHOSP_HRSVA		HRSV Phosphoprotein	20	16	4.0	2323.1
Rps27a	RS27A		Ubiquitin-40S ribosomal protein S27a	5	2	3.5	814.9
Dnaja1	DNJA1	DNAJA1	DnaJ homolog subfamily A member 1	7	6	3.3	774.6
Hspa4	HSP74	HSPA4	Heat shock 70 kDa protein 4	8	6	3.2	680.2
Hspa1b	HS71B	HSPA1B	Heat shock 70 kDa protein 1B	33	30	3.1	4897.9
Capza1	CAZA1	CAPZA1	F-actin-capping protein subunit alpha-1	3	1	3.1	316.7
Fam193b	F193B		Protein FAM193B	3	1	2.7	48.0
Cct2	TCPB	CCT2	T-complex protein 1 subunit beta	3	3	2.3	228.7
Rpl15	RL15	RPL15	60S ribosomal protein L15	3	3	2.3	352.8
Hsph1	HS105	HSPH1	Heat shock protein 105 Kda	13	11	2.3	1739.4
Gstp1	GSTP1	GSTP1	Glutathione S-transferase P 1	2	2	2.2	201.2
Hnrnpf	HNRPF	HNRNPF	Heterogeneous nuclear ribonucleoprotein F	2	2	2.1	242.4
H3f3c	H3C		Histone H3.3C	2	2	2.0	36.8

Supplementary Table 2. Proteins from the EGFP-P P sample (in the context of the mini-replicon) identified by LC MS/MS by two or more peptides and showing a ratio of relative expression level increased more than 2-fold compared to the same proteins from the control IP sample. EGFP-P was expressed in the context of the HRSV mini-replicon system. The gene name, protein name, human ortholog name, a brief description of the protein, the number of peptides used to identify and quantify the protein and the fold change of the protein between the bait and control systems is shown for each protein. Individual ion scores are indicated in the form of a Mascot derived (-10 log (PEP)) Confidence score where >13 indicated identity or extensive homology (p < 0.05).

Gene Name	Protein Name	Human ortholog	Description	Peptides identified	Peptides used for quant	Binding ratio	Confidence score
N_HRSVA	NCAP_HRSVA		HRSV Nucleoprotein	9	9	154.9	996.9
L_HRSVA	L_HRSVA		HRSV RNA-directed RNA polymerase L	25	24	32.0	2431.6
P_HRSVA	PHOSP_HRSVA		HRSV Phosphoprotein	20	16	28.3	2323.1
Eif2s2	IF2B	EIF2S2	Eukaryotic translation initiation factor 2 subunit 2	2	2	9.6	28.1
Stip1	STIP1	STIP1	Stress-induced-phosphoprotein 1	13	2	8.3	1088.2
Dnaja1	DNJA1	DNAJA1	DnaJ homolog subfamily A member 1	7	6	7.1	774.6
Rps23	RS23	RPS23	40S ribosomal protein S23	3	3	6.9	191.8
Mvp	WDR35	MVP	Major vault protein	29	28	5.6	2548.9
Rpl18a	RL18A	RPL18A	60S ribosomal protein L18a	4	4	5.4	259.8
Rpl37a	RL37A	RPL37A	60S ribosomal protein L37a	3	3	5.0	148.5
Hspa1b	HS71B	HSPA1A	Heat shock cognate 71 kDa protein	33	30	4.6	4897.9
Myof	MYOF	MYOF	Myoferlin	2	2	4.6	95.3
Rpl32-ps	RL32P		Putative 60S ribosomal protein L32	2	2	3.7	102.7
Hnrnpa3	ROA3	HNRNPA3	Heterogeneous nuclear ribonucleoprotein A3	4	4	3.6	334.8
Rps27a	RS27A		Ubiquitin-40S ribosomal protein S27a	5	2	3.6	814.9
Rps26	RS26	RPS26	40S ribosomal protein S26	3	3	3.4	49.1
Rpl15	RL15	RPL15	60S ribosomal protein L15	3	3	3.2	352.8
Rpl3	RL3	RPL3	60S ribosomal protein L3	5	3	3.0	682.3

Dnaja2	DNJA2	DNAJA2	DnaJ homolog subfamily A member 2	3	3	3.0	359.3
Hsp90aa1	HS90A	HSP90AA1	Heat shock protein HSP 90-alpha	5	1	2.9	462.0
Rpl24	RL24	RPL24	60S ribosomal protein L24	3	2	2.8	56.5
Hnrnpab	HNRDL	HNRNPAB	Heterogeneous nuclear ribonucleoprotein A/B	5	3	2.8	555.9
Hsph1	HS105	HSPH1	Heat shock protein 105 kDa	13	11	2.6	1739.4
Ldha	LDHA	LDHA	L-lactate dehydrogenase A chain	3	3	2.6	271.5
Rpl28	RL28	RPL28	60S ribosomal protein L28	9	9	2.5	513.3
Hnrnpa1	ROA1	HNRNPA1	Heterogeneous nuclear ribonucleoprotein A1	8	8	2.4	755.8
Rpl7a	RL7A	RPL7A	60S ribosomal protein L7a	2	2	2.4	113.1
Rpl13	RL13	RPL13	60S ribosomal protein L13	6	6	2.4	672.2
Hist2h2aa1	H2A2A		Histone H2A type 2-A	2	2	2.4	139.9
Bag3	BAG3	BAG3	BAG family molecular chaperone regulator 3	3	3	2.3	386.3
Uba52	RL40	UBA52	Ubiquitin-60S ribosomal protein L40	5	2	2.3	516.2
Hsp90ab1	LRGUK	HSP90AB1	Heat shock protein HSP 90-beta	14	10	2.3	1652.8
Hnrnpf	HNRPF	HNRNPF	Heterogeneous nuclear ribonucleoprotein F	2	2	2.2	242.4
Npm1	NPM	NPM1	Nucleophosmin	4	3	2.2	673.7
Myh11	MYH11	MYH11	Myosin-11	4	1	2.2	315.0
Rpl30	RL30	RPL30	60S ribosomal protein L30	2	2	2.2	379.1
Rpl8	RL8	RPL8	60S ribosomal protein L8	6	6	2.1	473.5
Hnrnpa0	ROA0	HNRNPA0	Heterogeneous nuclear ribonucleoprotein A0	2	2	2.1	167.2
Rpl31	RL31	TPL31	60S ribosomal protein L31	6	6	2.1	274.8
Rpl19	RL19	RPL19	60S ribosomal protein L19	2	2	2.1	181.8
Pabpc1	PABP1	PABPC1	Polyadenylate-binding protein 1	8	8	2.0	860.8