

**Avila-Flores et al., Supplementary material**

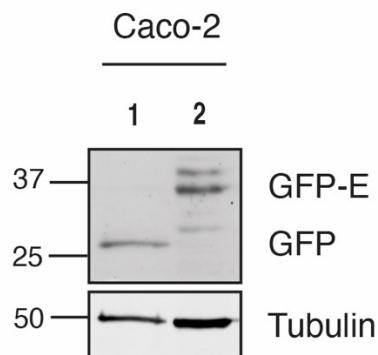
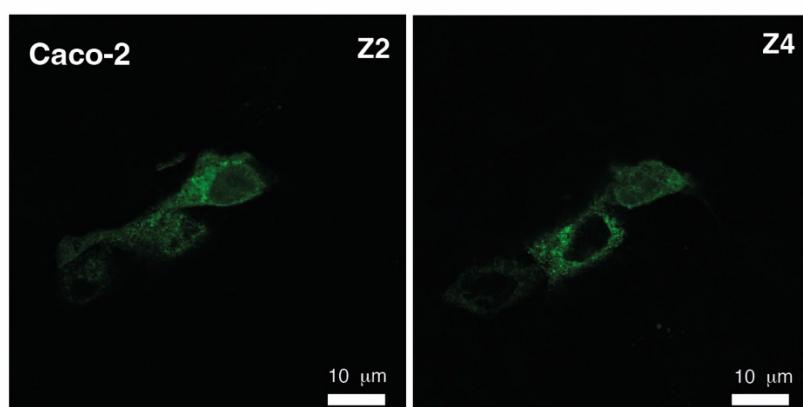
**Supplemental Table 1 Protein interactors classified by biological process**

Leukocyte degranulation	Myeloid cell activation in immune response	Immune response	Neutrophil activation involved in immune response	Neutrophil degranulation	Exocytosis	Secretion	Protein targeting to membrane	Cotranslational protein targeting to membrane	Establishment of protein localization to endoplasmic reticulum	Translational initiation	Viral process	Viral transcription
		ANKHD1									ABCF1	
ANO6	ANO6	ANO6	ANO6	ANO6	ANO6	ANO6					C1QBP	
		ATP6VOA2									EIF1	
		BCL2									EIF2B3	
BST1	BST1	BST1	BST1	BST1	BST1	BST1					CD95	
		C17orf62									EIF3M	
		C1QBP									CDKSRAP3	
		CALCOCO2									CHMP1A	
CAND1	CAND1	CAND1	CAND1	CAND1	CAND1	CAND1					DHX58	
		CCR1			CCR1	CCR1					DOCK2	
CD44	CD44	CD44	CD44	CD44	CD44	CD44	RPL10	RPL10	RPL10	RPL10	ELM01	
CD55	CD55	CD55	CD55	CD55	CD55	CD55	RPL10A	RPL10A	RPL10A	RPL10A	F11R	
CSNK2B	CSNK2B	CSNK2B	CSNK2B	CSNK2B	CSNK2B	CSNK2B	RPL18A	RPL18A	RPL18A	RPL18A	HCK	
CSTB	CSTB	CSTB	CSTB	CSTB	CSTB	CSTB	RPL28	RPL28	RPL28	RPL28	ITCH	
CYFIP1	CYFIP1	CYFIP1	CYFIP1	CYFIP1	CYFIP1	CYFIP1	RPL39	RPL39	RPL39	RPL39	ITGAL	
		DHX58					RPL4	RPL4	RPL4	RPL4	KPN2A	
DIAPH1	DIAPH1	DIAPH1	DIAPH1	DIAPH1	DIAPH1	DIAPH1	RPL9	RPL9	RPL9	RPL9	LYN	
DOCK2	DOCK2	DOCK2	DOCK2	DOCK2	DOCK2	DOCK2	RPLP1	RPLP1	RPLP1	RPLP1	MOV10	
		EXOSC3			EXOC4	EXOC4	RPS15	RPS15	RPS15	RPS15	NUP62	
GOLGA7	GOLGA7	GOLGA7	GOLGA7	GOLGA7	GOLGA7	GOLGA7	RPS24	RPS24	RPS24	RPS24	NUP62	
HCK	HCK	HCK	HCK	HCK	HCK	HCK	RPS3A	RPS3A	RPS3A	RPS3A	NUP98	
HVCN1	HVCN1	HVCN1	HVCN1	HVCN1	HVCN1	HVCN1	RPS4X	RPS4X	RPS4X	RPS4X	NUP98	
		IFI44L					RPS8	RPS8	RPS8	RPS8	NUP98	
IGF2R	IGF2R	IGF2R	IGF2R	IGF2R	IGF2R	IGF2R	SDCBP	SDCBP	SDCBP	SDCBP	PML	
		IL16					SEC61A1	SEC61A1	SEC61A1	SEC61A1	PTBP1	
ITGAL	ITGAL	ITGAL	ITGAL	ITGAL	ITGAL	ITGAL	SEC63	SEC63	SEC63	SEC63	RAE1	
LAMTOR1	LAMTOR1	LAMTOR1	LAMTOR1	LAMTOR1	LAMTOR1	LAMTOR1	SSR1	SSR1	SSR1	SSR1	RPL10A	
				LIN7A	LIN7A	LIN7A	22	18	18	21	RPL10A	
LYN	LYN	LYN			LYN	LYN					RPL10	
MAGT1	MAGT1	MAGT1	MAGT1	MAGT1	MAGT1	MAGT1					RPL18A	
		MEF2C									RPL28	
MEFV											RPL39	
MGST1	MGST1	MGST1	MGST1	MGST1	MGST1	MGST1					RPL4	
		MYD88									RPL9	
NCKAP1L	NCKAP1L	NCKAP1L	NCKAP1L	NCKAP1L	NCKAP1L	NCKAP1L					RPLP1	
		NONO									RPS15	
PARP9											RPS24	
		PML									RPS29	
PSMA5	PSMA5	PSMA5	PSMA5	PSMA5	PSMA5	PSMA5					RPS3A	
PSMD1	PSMD1	PSMD1	PSMD1	PSMD1	PSMD1	PSMD1					RPS4X	
					RAB11FIP1	RAB11FIP1					RPS8	
RAP2B	RAP2B	RAP2B	RAP2B	RAP2B	RAP2B	RAP2B					SCRIB	
		RBMB14									SF3B2	
RPL39											SND1	
SDCBP	SDCBP	SDCBP	SDCBP	SDCBP	SDCBP	SDCBP					SSRP1	
			SEC61A1								STAT2	
SFPQ											STAU1	
SLC2A5	SLC2A5	SLC2A5	SLC2A5	SLC2A5	SLC2A5	SLC2A5					SYK	
		STAT2									TAP2	
STAT6											TFCR	
STOM	STOM	STOM	STOM	STOM	STOM	STOM					TRIM22	
					STX11	STX11					USP15	
STXBP2	STXBP2	STXBP2	STXBP2	STXBP2	STXBP2	STXBP2					USP7	
STXBP3	STXBP3	STXBP3	STXBP3	STXBP3	STXBP3	STXBP3					VAMP8	
SURF4	SURF4	SURF4	SURF4	SURF4	SURF4	SURF4					VTA1	
SYK	SYK	SYK	SYK	SYK	SYK	SYK					XPO5	
		TAP2										
TCIRG1	TCIRG1	TCIRG1	TCIRG1	TCIRG1	TCIRG1	TCIRG1					53	17
					TMEM167A	TMEM167A						
TMEM30A	TMEM30A	TMEM30A	TMEM30A	TMEM30A	TMEM30A	TMEM30A						
TMEM63A	TMEM63A	TMEM63A	TMEM63A	TMEM63A	TMEM63A	TMEM63A						
TOLLIP	TOLLIP	TOLLIP	TOLLIP	TOLLIP	TOLLIP	TOLLIP						
		TRIM22										
VAMP8	VAMP8	VAMP8	VAMP8	VAMP8	VAMP8	VAMP8						
VAT1	VAT1	VAT1	VAT1	VAT1	VAT1	VAT1						
	35	35	62	34	33	47						
						51						

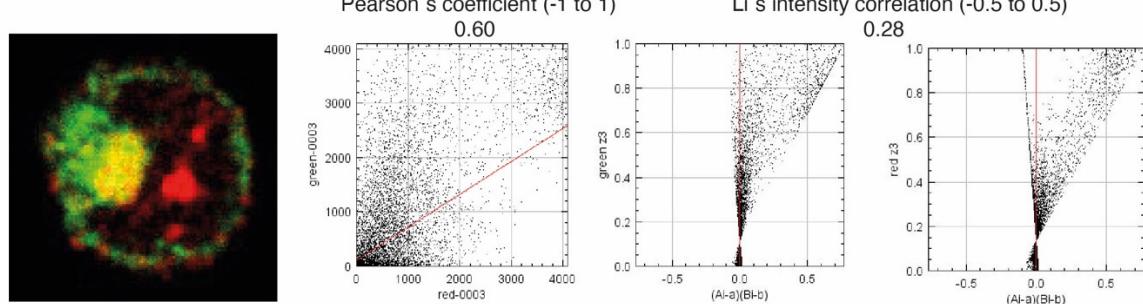
**Supplemental Table S1. Classification of GFP-SARS-CoV-2 E protein interactors according to GoTERM categories of biological process .** Proteins classified into the distinct GoTERM categories are listed; the total number of proteins is indicated at the bottom. Color assigned to the different GoTERM categories as shown in Figure 3A.



**Supplemental Table S2. Classification of GFP-SARS-CoV-2 E protein interactors according to GoTERM category of cellular compartments.** Proteins classified into the distinct cellular region or cell compartment are listed; the total number of proteins is indicated at the bottom.  
Color assigned to the different categories is according to Figure 3B.

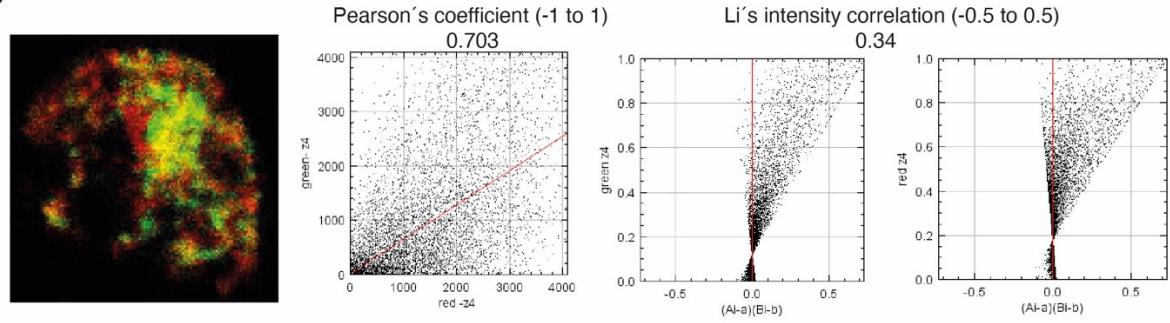
**A****B**

**Supplemental Figure S1. Expression of the recombinant GFP SARS-CoV-2 E protein in Caco-2 cells.** (A) Cells were transfected with either the plasmid pEZYeGFP (empty vector; line 1) or with the pEZYeGFP-SARS-CoV-2 E construct (line 2). After 24 h, cells were lysed and analyzed by Western Blot using anti-GFP and anti-tubulin Abs. (B) Caco-2 cells were seeded into coverslips, transfected with the pEZYeGFP-SARS-CoV-2 E construct and next day fixed and analyzed by confocal microscopy. Two different confocal planes (Z) of a representative transfection are shown.

**A**

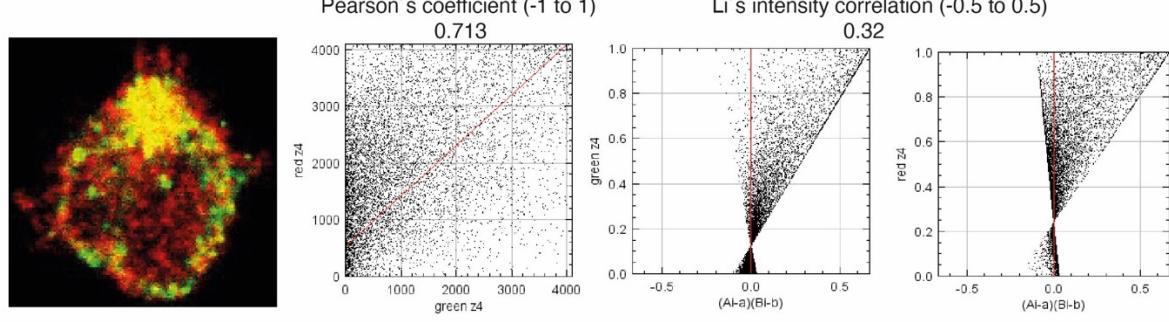
M1 coefficient: fraction of channel A (GFP-E)  
overlapping to channel B (syntenin): 0.609

M2 coefficient: fraction of channel B (syntenin)  
overlapping to channel A (GFP-E): 0.470

**B**

M1 coefficient: fraction of channel A (GFP-E)  
overlapping to channel B (ZO-2): 0.442

M2 coefficient: fraction of channel B (ZO-2)  
overlapping to channel A (GFP-E): 0.796

**C**

M1 coefficient: fraction of channel A (GFP-E)  
overlapping to channel B (IL-16): 0.650

M2 coefficient: fraction of channel B (IL-16)  
overlapping to channel A (GFP-E): 0.596

**Supplemental Figure S2. GFP-SARS-CoV-2 E protein co-localization with PDZ proteins in THP-1 monocytes.** Representative analysis of the co-localization of the GFP-SARS-CoV-2 E protein with the PDZ proteins (A) syntenin, (B) ZO-2 and (C) IL-16. The images shown were analyzed with the JaCoP plugin. Mander's coefficient was used to determine the concurrence of both proteins, while Pearson's coefficient and Li's intensity correlation were used for analysis of fluorescence intensity correlation.

Mander's coefficient (ranging from 0 to 1) was determined using automatic threshold. M1 corresponds to the fraction of channel A (green; GFP-E) that overlaps with channel B (red; PDZ protein), while M2 corresponds to the fraction of channel B (red; PDZ protein) overlapping with channel A (green; GFP-E). M values are indicated below for each image.

Pearson's coefficient (ranging from -1 to 1) and Li's intensity correlation (ranging from -0.5 to 0.5), were also used. In all the cases the analysis showed partial co-localization since concurrence was restricted to certain cell regions.