

S4 Table. Types of PPIs between HCV polyprotein and human protein in PHISTO and their detection methods

PPI	HCV protein	Human protein	Detection method(s)*	PPI type*
1	Polyprotein	FGB	bimolecular fluorescence complementation, two hybrid , anti tag coimmunoprecipitation, confocal microscopy	Direct
2	Polyprotein	ANXA2	bimolecular fluorescence complementation, electron microscopy , anti bait coimmunoprecipitation, confocal microscopy	Direct
3	Polyprotein	CD81	competition binding, enzyme linked immunosorbent assay, far western blotting, fluorescence-activated cell sorting, pull down , other methods	Direct
4	Polyprotein	LTBR	cosedimentation through density gradient, far western blotting, pull down, two hybrid	Direct
5	Polyprotein	SCARB1	cross-linking study, fluorescence-activated cell sorting	Direct
6	Polyprotein	ACTB	electron microscopy , anti bait coimmunoprecipitation, confocal microscopy	Direct
7	Polyprotein	RAB18	electron microscopy, pull down , imaging technique	Direct
8	Polyprotein	GRB2	enzyme linked immunosorbent assay, pull down , anti bait coimmunoprecipitation	Direct
9	Polyprotein	HCK	enzyme linked immunosorbent assay, protein kinase assay, pull down , anti bait coimmunoprecipitation	Direct
10	Polyprotein	LTF	far western blotting, pull down , anti bait coimmunoprecipitation, coimmunoprecipitation	Direct
11	Polyprotein	CD209	fluorescence-activated cell sorting, surface plasmon resonance	Direct
12	Polyprotein	EBAG9	protein array	Direct

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PPI	HCV protein	Human protein	Detection method(s)*	PPI type*
13	Polyprotein	CTTN	protein array	Direct
14	Polyprotein	CSNK2A2	protein array	Direct
15	Polyprotein	HRAS	protein array	Direct
16	Polyprotein	CALU	protein array	Direct
17	Polyprotein	PDAP1	protein array	Direct
18	Polyprotein	RPL29	protein array	Direct
19	Polyprotein	PLSCR1	pull down, two hybrid , anti tag coimmunoprecipitation	Direct
20	Polyprotein	SORBS2	pull down, two hybrid , other methods, anti tag coimmunoprecipitation	Direct
21	Polyprotein	BIN1	pull down, two hybrid , other methods, anti bait coimmunoprecipitation, anti tag coimmunoprecipitation, confocal microscopy, tandem affinity purification	Direct
22	Polyprotein	EFEMP1	pull down, two hybrid , other methods, anti tag coimmunoprecipitation	Direct
23	Polyprotein	VAPA	pull down, two hybrid , anti tag coimmunoprecipitation, coimmunoprecipitation, confocal microscopy, tandem affinity purification	Direct
24	Polyprotein	NCL	pull down , confocal microscopy	Direct
25	Polyprotein	DHCR24	pull down	Direct
26	Polyprotein	FAS	pull down , anti bait coimmunoprecipitation, confocal microscopy	Direct
27	Polyprotein	TGFBR1	pull down , other methods, anti tag coimmunoprecipitation, confocal microscopy	Direct
28	Polyprotein	FN1	pull down, two hybrid , other methods	Direct
29	Polyprotein	NUCB1	pull down, two hybrid , other methods	Direct
30	Polyprotein	APOA2	surface plasmon resonance, two hybrid , other methods	Direct
31	Polyprotein	AHNAK	two hybrid	Direct

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PPI	HCV protein	Human protein	Detection method(s)*	PPI type*
32	Polyprotein	AGRN	two hybrid	Direct
33	Polyprotein	AXIN1	two hybrid , other methods	Direct
34	Polyprotein	LAMA5	two hybrid	Direct
35	Polyprotein	SLC31A2	two hybrid	Direct
36	Polyprotein	SORBS3	two hybrid , other methods	Direct
37	Polyprotein	SRPX2	two hybrid	Direct
38	Polyprotein	SLIT3	two hybrid	Direct
39	Polyprotein	SPN	two hybrid	Direct
40	Polyprotein	RBP1	two hybrid	Direct
41	Polyprotein	EFEMP2	two hybrid	Direct
42	Polyprotein	VWF	two hybrid	Direct
43	Polyprotein	GAPDH	two hybrid	Direct
44	Polyprotein	ITGB1	two hybrid	Direct
45	Polyprotein	PFN1	two hybrid	Direct
46	Polyprotein	COL4A2	two hybrid	Direct
47	Polyprotein	VIM	two hybrid , confocal microscopy	Direct
48	Polyprotein	C7	two hybrid	Direct
49	Polyprotein	VCAN	two hybrid	Direct
50	Polyprotein	NID1	two hybrid	Direct
51	Polyprotein	PKM2	two hybrid , other methods, anti bait coimmunoprecipitation, anti tag coimmunoprecipitation, fluorescence microscopy	Direct
52	Polyprotein	FBLN1	two hybrid	Direct
53	Polyprotein	TBXAS1	two hybrid , other methods	Direct
54	Polyprotein	GRN	two hybrid	Direct
55	Polyprotein	CTGF	two hybrid	Direct
56	Polyprotein	FBN1	two hybrid	Direct
57	Polyprotein	STAT3	two hybrid	Direct
58	Polyprotein	MLLT4	two hybrid	Direct
59	Polyprotein	LAMB2	two hybrid	Direct
60	Polyprotein	BCAR1	two hybrid	Direct
61	Polyprotein	B2M	two hybrid , other methods	Direct
62	Polyprotein	FBLN2	two hybrid	Direct
63	Polyprotein	MAPK7	two hybrid	Direct

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PPI	HCV protein	Human protein	Detection method(s)*	PPI type*
64	Polyprotein	NID2	two hybrid	Direct
65	Polyprotein	FBN3	two hybrid	Direct
66	Polyprotein	CADPS2	two hybrid , other methods	Direct
67	Polyprotein	LTBP4	two hybrid	Direct
68	Polyprotein	ALB	two hybrid , other methods	Direct
69	Polyprotein	NRP1	two hybrid	Direct
70	Polyprotein	PDLIM5	two hybrid	Direct
71	Polyprotein	LRRC7	two hybrid , other methods	Direct
72	Polyprotein	NRP2	two hybrid	Direct
73	Polyprotein	SHARPIN	two hybrid , other methods	Direct
74	Polyprotein	FXYD6	two hybrid	Direct
75	Polyprotein	MMRN2	two hybrid	Direct
76	Polyprotein	PARVG	two hybrid , other methods	Direct
77	Polyprotein	SPON1	two hybrid	Direct
78	Polyprotein	CELSR2	two hybrid	Direct
79	Polyprotein	PNPLA8	two hybrid	Direct
80	Polyprotein	PICK1	two hybrid	Direct
81	Polyprotein	STAB1	two hybrid	Direct
82	Polyprotein	RAI14	two hybrid , other methods	Direct
83	Polyprotein	FBLN5	two hybrid	Direct
84	Polyprotein	SSX2IP	two hybrid	Direct
85	Polyprotein	MAGED1	two hybrid , other methods	Direct
86	Polyprotein	LAMC3	two hybrid	Direct
87	Polyprotein	PLIN3	two hybrid , anti bait coimmunoprecipitation, anti tag coimmunoprecipitation, confocal microscopy	Direct
88	Polyprotein	CD63	two hybrid	Direct
89	Polyprotein	FCN2	two hybrid	Direct
90	Polyprotein	RBP4	two hybrid	Direct
91	Polyprotein	HAMP	two hybrid	Direct
92	Polyprotein	PTGS2	two hybrid	Direct
93	Polyprotein	CD82	two hybrid	Direct
94	Polyprotein	APOA1	two hybrid	Direct
95	Polyprotein	APLP2	two hybrid	Direct

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PPI	HCV protein	Human protein	Detection method(s)*	PPI type*
96	Polyprotein	FGG	two hybrid	Direct
97	Polyprotein	SLC39A1	two hybrid	Direct
98	Polyprotein	PIIB	two hybrid	Direct
99	Polyprotein	SERPINA1	two hybrid	Direct
100	Polyprotein	LRG1	two hybrid	Direct
101	Polyprotein	ENO1	two hybrid , tandem affinity purification	Direct
102	Polyprotein	EEF1G	two hybrid	Direct
103	Polyprotein	SLC4A2	two hybrid	Direct
104	Polyprotein	AZGP1	two hybrid	Direct
105	Polyprotein	APOB	two hybrid , anti bait coimmunoprecipitation	Direct
106	Polyprotein	PDIA6	two hybrid	Direct
107	Polyprotein	PON3	two hybrid	Direct
108	Polyprotein	FGL1	two hybrid	Direct
109	Polyprotein	F2	two hybrid	Direct
110	Polyprotein	SEP2	two hybrid , anti bait coimmunoprecipitation, anti tag coimmunoprecipitation	Direct
111	Polyprotein	FMNL1	two hybrid	Direct
112	Polyprotein	VAPB	two hybrid , anti tag coimmunoprecipitation, confocal microscopy, tandem affinity purification	Direct
113	Polyprotein	CDC42BPA	two hybrid	Direct
114	Polyprotein	APOH	two hybrid	Direct
115	Polyprotein	CTNNB1	two hybrid	Direct
116	Polyprotein	NUCB2	two hybrid	Direct
117	Polyprotein	RNASET2	two hybrid	Direct
118	Polyprotein	PIK3R1	two hybrid	Direct
119	Polyprotein	SPTAN1	two hybrid	Direct
120	Polyprotein	DST	two hybrid	Direct
121	Polyprotein	SCP2	two hybrid	Direct
122	Polyprotein	SLMAP	two hybrid, other methods	Direct
123	Polyprotein	SERPIND1	two hybrid	Direct

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PPI	HCV protein	Human protein	Detection method(s)*	PPI type*
124	Polyprotein	TF	two hybrid	Direct
125	Polyprotein	HMGCR	two hybrid	Direct
126	Polyprotein	C3	two hybrid	Direct
127	Polyprotein	APOE	two hybrid	Direct
128	Polyprotein	TNFRSF10B	two hybrid	Direct
129	Polyprotein	STX8	two hybrid	Direct
130	Polyprotein	AGGF1	two hybrid	Direct
131	Polyprotein	MST1	two hybrid , other methods	Direct
132	Polyprotein	UTRN	two hybrid	Direct
133	Polyprotein	CFH	two hybrid	Direct
134	Polyprotein	HRG	two hybrid	Direct
135	Polyprotein	APOA5	two hybrid	Direct
136	Polyprotein	C4A	two hybrid	Direct
137	Polyprotein	SERPING1	other methods	Direct/indirect
138	Polyprotein	VPS35	other methods	Direct/indirect
139	Polyprotein	FLNA	anti bait coimmunoprecipitation, confocal microscopy	Direct/indirect
140	Polyprotein	CANX	anti bait coimmunoprecipitation, confocal microscopy	Direct/indirect
141	Polyprotein	STX12	anti bait coimmunoprecipitation	Direct/indirect
142	Polyprotein	SSB	anti bait coimmunoprecipitation, tandem affinity purification	Direct/indirect
143	Polyprotein	HSP90AA1	anti tag coimmunoprecipitation	Direct/indirect
144	Polyprotein	RAB5A	anti tag coimmunoprecipitation	Direct/indirect
145	Polyprotein	TGFBR2	anti tag coimmunoprecipitation	Direct/indirect
146	Polyprotein	OSBP2	anti tag coimmunoprecipitation, imaging technique	Direct/indirect
147	Polyprotein	TLR2	confocal microscopy	Direct/indirect
148	Polyprotein	C1QBP	confocal microscopy	Direct/indirect
149	Polyprotein	RAB5B	fluorescence microscopy	Direct/indirect
150	Polyprotein	TXN	tandem affinity purification	Direct/indirect
151	Polyprotein	BASP1	tandem affinity purification	Direct/indirect
152	Polyprotein	MARCKS	tandem affinity purification	Direct/indirect
153	Polyprotein	HSPD1	tandem affinity purification	Direct/indirect
154	Polyprotein	HSPA5	tandem affinity purification	Direct/indirect

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PPI	HCV protein	Human protein	Detection method(s)*	PPI type*
155	Polyprotein	MIF	tandem affinity purification	Direct/indirect
156	Polyprotein	TUBB	tandem affinity purification	Direct/indirect
157	Polyprotein	IRS4	tandem affinity purification	Direct/indirect
158	Polyprotein	P4HB	tandem affinity purification	Direct/indirect

*PPIs detected by at least one bold-faced experimental methods are considered “direct”, and “direct/indirect” otherwise. Methods detecting binary interaction, i.e. “direct” PPIs, are: bimolecular fluorescence complementation (26681426), competition binding (23235262), cross-linking study (7708014), electron microscopy (11785754), enzyme linked immunosorbent assay (11906746), far western blotting (18079728), fluorescence-activated cell sorting (11988464), protein array (16629388), protein kinase assay (7708014), pull down (26681426), surface plasmon resonance (7708014), two hybrid (26681426); methods detecting co-complex or non-binary interactions are considered “Direct/indirect” PPIs: anti bait coimmunoprecipitation (18369874), anti tag coimmunoprecipitation (18369874), coimmunoprecipitation (18369874), tandem affinity purification (17640003), cosedimentation through density gradient (7708014), confocal microscopy (17640003), fluorescence microscopy (17640003), imaging technique (17640003), other methods (Not available). Numbers in parentheses are Pubmed ID for the reference that describes the experimental method.