

Supplementary Information

TRIM56 is a virus- and interferon-inducible E3 ubiquitin ligase that restricts pestivirus infection

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Table S1. List of N^{pro}-associated proteins identified by FLAG purification and mass spect analysis

Label	Protein Name	Accession No.	Protein MW	Pep. Count	Protein Score	Protein Score C. I. %	Total Ion Score	Protein PI	Protein Expectation Score	Observed MW on gel
N2	N-Pro [Bovine viral diarrhea virus 1]	gi 27777742	19032.7	3	56	0	26	9.01	0.997631157	20±10
N3	N-Pro [Bovine viral diarrhea virus 1]	gi 27777742	19032.7	4	93	99.978	49	9.01	0.000199054	25±10
N4	N-Pro [Bovine viral diarrhea virus 1]	gi 27777742	19032.7	8	225	100	145	9.01	1.25594E-17	30±10
	heat shock 27kDa protein 1 [Homo sapiens]	gi 4504517	22768.5	10	464	100	363	5.98	6.29463E-42	
N5	N-Pro [Bovine viral diarrhea virus 1]	gi 27777742	19032.7	6	191	100	120	9.01	3.15479E-14	35±10
N6	phosphoribosyl pyrophosphate synthetase-associated protein 1 [Homo sapiens]	gi 4506131	39454.7	7	169	100	113	6.73	1.99054E-12	
N8	ACTB protein [Homo sapiens]	gi 15277503	40194.1	13	538	100	404	5.55	2.50594E-49	50±10
N9	tubulin, beta polypeptide [Homo sapiens]	gi 57209813	47736	17	566	100	420	4.7	3.97164E-52	60±10
N10	pyruvate kinase, muscle, isoform CRA_c [Homo sapiens]	gi 119598292	60203.1	14	280	100	163	7.95	1.58114E-23	68±10
N11	heat shock 70kDa protein 8 isoform 1 [Homo sapiens]	gi 5729877	70854.2	10	207	100	144	5.37	3.15479E-16	72±10
N12	tripartite motif-containing 56 [Homo sapiens]	gi 30794216	81436.5	9	109	100	71	8.02	1.99054E-06	80±10
	minichromosome maintenance complex component 7 isoform 1 [Homo sapiens]	gi 33469968	81256.6	14	152	100	64	6.08	9.97631E-11	
N14	kinesin-related protein [Homo sapiens]	gi 1155084	119200.1	29	579	100	315	5.52	1.99054E-53	135±30
N16	KIAA0913, isoform CRA_d [Homo sapiens]	gi 119574909	169236.9	21	226	100	93	6.16	3.97164E-18	200±40
N18	protein kinase, DNA-activated, catalytic polypeptide, isoform CRA_c [Homo sapiens]	gi 119607088	468686.9	10	82	99.872	60	6.75	0.000997631	>220

Note:

- The picture on the right shows the SDS-PAGE and Coomassie blue staining of cellular proteins purified from control HeLa and HeLa-FHNpro cells by anti-Flag antibody. The individual protein bands purified from HeLa-FHNpro cells were labeled as “N#”.
- Only proteins with an expectation score <1 are shown in Table S2.
- N^{pro} was identified from multiple protein bands (N2 through N5, highlighted in yellow in Table S2). The N^{pro} bands with higher molecular masses are likely ubiquitinated N^{pro}.
- None of the N^{pro}-associated proteins identified by mass spect analysis in HeLa-FHNpro cells overlaps with those identified from control HeLa cells (protein bands C1 through C6 in the HeLa lane).
- N4 and N12 protein bands contain more than 1 cellular protein.



