## Title: Supplementary data 1.

**Description:** RiboVD library design and sequenced coverage.

## Title: Supplementary data 2.

**Description:** Table of expression constructs and information on proteins screened.

## Title: Supplementary data 3.

**Description:** RiboVD selection results. Information is provided on bait protein used, confidence of interaction, peptide found, annotation on host protein, viral species and viral family.

Title: Supplementary data 4. Description: RiboVD motif benchmarking set.

Title: Supplementary data 5.

Description: RiboVD protein-protein interaction benchmarking set.

Title: Supplementary data 6.

**Description:** Co-occurrence of viral SLiMs targeting human bait-bait pairs.

#### Title: Supplementary data 7.

Description: GO term enrichment analysis of expanded host-virus network.

# Title: Supplementary data 8.

**Description:** Overview of peptides used for affinity measurements together with resulting affinity data.

#### Title: Supplementary data 9.

Description: Details of constructs used for cell based experiments.

Title: Supplementary data 10. Description: AP-MS data.