

SUPPLEMENTARY INFORMATION

The *Henipavirus* V protein is a prevalently unfolded protein with a zinc-finger domain involved in binding to DDB1

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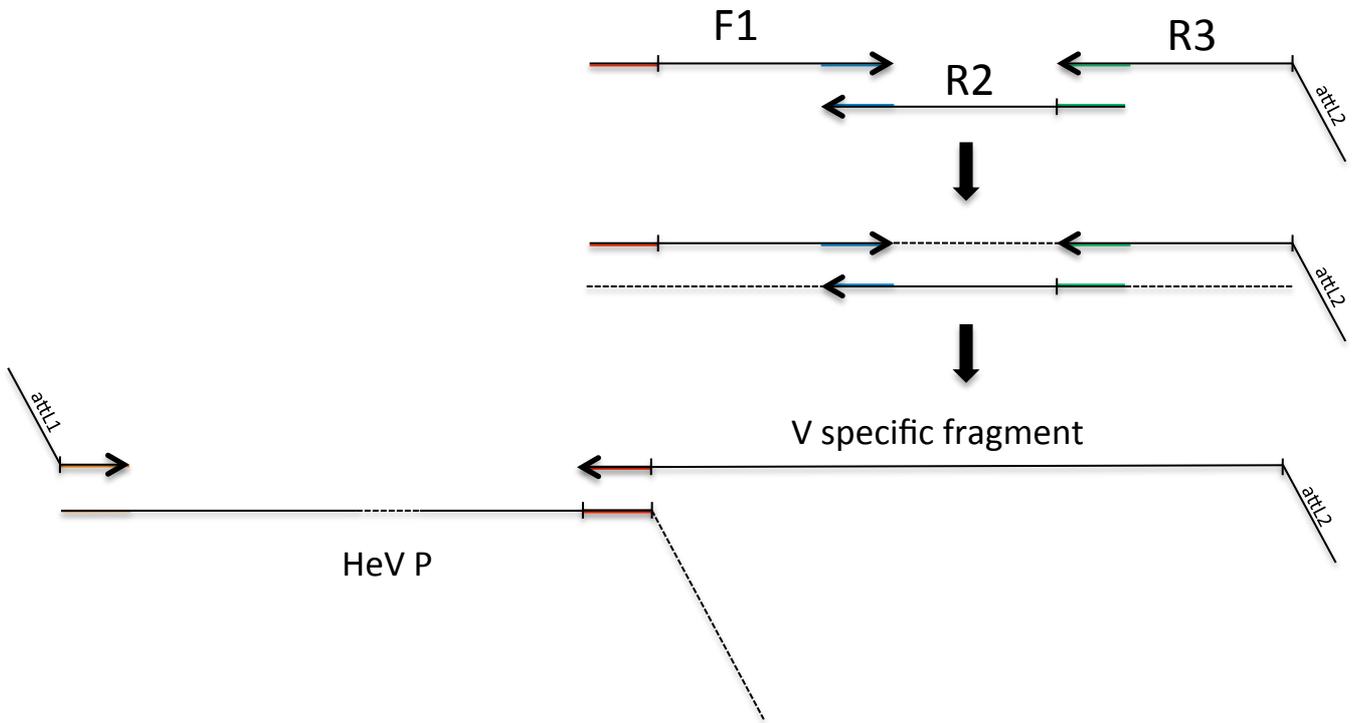
Legends of supplementary figures

Supplementary Figure S1. (A) Scheme of the strategy used to build the V gene. Forward primer 1 (F1) was 56 nucleotides in length and was designed to bear a fragment of 18 nucleotides at its 5' end (see portion in red) annealing on the 3' end of the PNT-encoding fragment. Reverse primer 3 (R3) was designed to introduce an AttL2 site at the 3' end of the amplicon. The resulting amplicon was used as reverse megaprimer in a final PCR step that used a PNT-specific forward primer bearing an AttL1 site at its 5' end. (B) Schematic description of the ensuing cloning steps.

Supplementary Figure S2. SAXS studies of NiV V. (A) Representation of the Guinier plot for the protein at 4.0 g/L. Inset: residuals. (B) Pair distance distribution, $P(r)$, function of the data for the 4.0 g/L concentration. (C) Dimensionless Kratky plot of the SAXS data obtained at 4.0 g/L. The inset shows the Kratky plots of a disordered, folded and partially folded protein. Data were taken from.¹ (D) Experimental scattering curve of the protein at 4.0 g/L (red) and GAJOE fit (black). (E) Distribution of R_g of the ensemble of randomly generated conformers by Flexible-Meccano without constraints (red) and of the sub-ensemble of selected conformers using GAJOE (black). (F) Final conformational sub-ensemble. All the conformers are superimposed on their ZnFD. Structures were drawn using Chimera².

References

1. V. M. Burger, D. J. Arenas and C. M. Stultz, *Sci Rep*, 2016, **6**, 29040.
2. E. F. Pettersen, T. D. Goddard, C. C. Huang, G. S. Couch, D. M. Greenblatt, E. C. Meng and T. E. Ferrin, *J Comput Chem*, 2004, **25**, 1605-1612.

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