

3 <u>Supplementary Figure 1</u>: **HRP29 has an inner core, related to Figure 1**.

(A) Central slice from the asymmetric reconstruction of HRP29 (EMD – 28227) colored in blue
and the inner stack highlighted by the circle. (B) Central slice from the symmetry mismatch
reconstruction of T7 (EMD – 31315) colored in pink and the inner stack highlighted by the circle.

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Supplementary Figure 2: Comparison of individual tail protein structures, related to Figure (A) Portal gp35 from HRP29 (blue) and gp8 from T7 (pink) were aligned against each other with a RMSD of 1.078 Å. (B) Adaptor gp39 from HRP29 and gp11 from T7 were aligned against each other with a RMSD of 1.068 Å. (C) Nozzle gp40 from HRP29 and gp12 from T7 were aligned

- 20 against each other with a RMSD of 1.312 Å. (D) Tailspike adaptor gp44 from HRP29 and gp17
- 21 from T7 were aligned against each other with a RMSD of 1.160 Å.

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38	Supplementary Figure 3: Comparison of HRP29 tailspike and Sf6 tailspike, related to Figure
39	2. (A) Sequence alignment of HRP29 tailspike gp52 and Sf6 tailspike gp14 using BLAST.
40	Conserved catalytic residues Glutamate 366 and Aspartate 399 are highlighted in a red box. (B)
41	An Alphafold prediction of gp52 trimer was aligned with the crystal structure of Sf6 tail spike (PDB:
42	2VBM) in chimera (RMSD: 0.899Å).
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51 <u>Supplementary Figure 4</u>: gp44-gp52 SDS PAGE, gp44-gp52 complex negative stain image, 52 gp44 alphafold prediction and gp44-gp52 cryo-EM, related to Figure 3. (A) SDS-PAGE gel 53 of size exclusion chromatography fractions of gp44-gp52 complex. First lane is molecular weight 54 marker and lanes 1, 2, and 3, are fractions from the size exclusion chromatography. (B) 55 Micrograph of negatively stained gp44-gp52 complex along with a zoomed in view. Scale bar is

56	100 nm. (C) Alphafold prediction of gp44 trimer. (D) Micrograph of gp44-gp52 complex in vitreous
57	ice. Micrographs were collected using a Talos Arctica equipped with a Falcon 3 direct electron
58	detector operating in counting mode. Scalebar is 100 nm. (E) 2D class averages of particles from
59	several micrographs showing predominantly top views and side views with no clear density for
60	gp44.
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Supplementary Figure 5: HRP29 procapsid has scaffolding protein density just beneath the N-terminus, related to Figure 6. (A) Interior view of the procapsid with the capsid density colored in grey and the scaffolding density from the difference map colored in magenta. The difference map was calculated by subtracting the map generated from the icosahedral model and the original map, both calculated at 3.5 Å. (B) Same interior view from (A) but the difference map is contoured at a lower value to show weaker densities that are highlighted by black circles.



89 <u>Supplementary Figure 6</u>: **Raw micrographs after motion correction and FSC curves, related** 90 **to STAR methods.** (A) Micrograph of HRP29 virions after motion correction. (B) Micrograph of 91 HRP29 procapsids after motion correction. A representative procapsid highlighted by pink circle 92 and expanded head highlighted by black circle. Scale bar is 100 nm. (C) FSC curve from the 93 icosahedral reconstruction of HRP29 virions. (D) FSC curve from the asymmetric reconstruction

- 94 of HRP29 virions. (E) FSC curve from the focused C6 reconstruction of HRP29 tail. (F) FSC curve
- 95 from the icosahedral reconstruction of HRP29 procapsids.

- 98 <u>Supplementary Table1</u>: EOP of HRP29 on various mutants, related to STAR methods.

	Strain	Efficiency of plating
1	PE577	1.0 ± 0.00
2	PE577 Δ <i>ompA</i>	0.39 ± 0.14
3	PE577 Δompc	0.43 ± 0.19
4	PE577 ΔompA,ompC	0.39 ± 0.07
5	PE577 Δ <i>yaj</i> C	0.90 ± 0.18

101 <u>Supplementary Table 2:</u> DNA Sequences, related to STAR methods.

	Namo	Saguanaa
1	SPK049	GAAGACCTGGTTGAAGGCGTACG
2	SPK050	GTCAAGGCCGAGCTTCATCG
3		CAGCCAGGATCCGAATTCGAGCTCGGCTTAC
	SPK146	TCTTGGAGCGAGCAGGTGGTG
4		CTTAAGCATTATGCGGCCGCAAGCTTTTAGC
	SPK147	CTCCTTGAAGCAGCGCGCGC
5		GTATAAGAAGGAGATATACATATGGCGGCAG
	SPK148	TATCTTCCCTGACGAAGTTAATC
6		GCAGCGGTTTCTTTACCAGACTCGAGTTACA
	SPK149	GCATAGTTACGCGTACATAAGC
7	HRP29 Gp47 guideRNA	GGCCCGTCTGGATAACATGCGTTTTAGAGCT
		AGAAATAGCAAGTTAAAATAAGGCTAGTCCGT
		TATCAACTTGAAAAAGTGGCACCGAGTCGGT
		GCTTTTTT
8	HRP29 Gp48 guideRNA	CCGCAGGACCTCGCCTATCGGTTTTAGAGCT
		AGAAATAGCAAGTTAAAATAAGGCTAGTCCGT
		TATCAACTTGAAAAAGTGGCACCGAGTCGGT
		GCTTTTTT

105 <u>Supplementary table 3: Cryo-EM data collection parameters, related to STAR methods.</u>

	FMD-28227	FMD-28226	EMD-28562	FMD-28238
	Virion	Virion	tail	Procapsid
Magnification	53,000	53,000	53,000	64,000
Voltage (keV)	300	300	300	300
Electron exposure	33	33	33	38.2
(e–/Å2)				
Defocus range (µm)	0.8 - 3.0	0.8 - 3.0	0.8 - 3.0	0.8 – 3.0
Pixel size (Å)	0.816	0.816	0.816	0.66
Symmetry imposed	C1	1	C6	1
Number of	4,489	4,489	4,489	4,167
micrographs				
Final particle images	33,127	38,666	24,391	60,962
(no.)				
Map resolution (Å)	4.1	3.3	3.3	3.5
FSC threshold	0.143	0.143	0.143	0.143

109 <u>Supplementary table 4 :</u> Refinement statistics, related to STAR methods.

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Model	8E	LD	8E	M6	8E	S4
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Atoms 20440 (Hydrogens: 0) 15594 (Hydrogens: 0) 17148 (Hydrogens: 3052) Residues Protein: 2738 Nucleotide: Protein: 2128 Nucleotide: Protein: 1841 Nucleotide: 0 0 0 0 0 Water 0 0 0 0 Length (A) (a > 4Å) 0.004 (0) 0.002 (0) 0.002 (0) Atoms 0 0 0 0 MolProbity score 1.98 1.9 2.11 Clash score 9.35 9.44 20.2 Ramachandran plot (%) 0 0 0 0 Outliers 0 0 0 0 0 Allowed 7.82 5.96 4.5 5 5 Fawred 92.18 94.04 95.5 0.5 0.53 (0.21) 0.60 (0.27) -0.08 (0.27) helix (N = 432) 1.02 (0.19) 2.28 (0.23) 2.46 (0.26) sheet (N = 415) -0.59 (0.22) 0.60 (0.27) -0.08 (0.27) -0.08 (0.27) loop (N = 974) -1.82 (Chains	1	3		7	6	5
Residues Protein: 2738 Nucleotide: Protein: 2128 Nucleotide: Protein: 128 Nucleotide: Protein: 1218 Nucleotide: 0	Atoms	20440 (Hv	drogens: 0)	15594 (Hv	drogens: 0)	17148 (Hydrogens: 3052)	
Residues 0 0 0 0 Water 0 0 0 0 Ligands 0 0 0 0 Bonds (RMSD) Length (A) ($o > 4A$) 0.055 (23) 0.499 (12) 0.376 (1) MolProbity score 1.98 1.9 2.11 Clash score 9.35 9.44 20.2 Ramachandran plot (%) . . . Outliers 0 0 0 . Outlers 0 0 0 0 Allowed 7.82 5.96 4.5 . Favored 92.18 94.04 95.5 . Rama-Z (Ramachandran plot Z-score, RMSD) whole (N = 1821) -0.95 (0.16) -0.15 (0.19) 0.53 (0.21) . hold X = 432) 1.02 (0.17) -1.66 (0.18) . . . sheet (N = 1821) -0.59 (0.22) 0.60 (Protein: 273	8 Nucleotide:	Protein: 212	8 Nucleotide:	Protein: 1841 Nucleotide:	
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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Bonds (RMSD)						
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Length (Å) (σ > 4Å)	0.00	4 (0)	0.00	2 (0)	0.002 (0)	
MolProbity score 1.98 1.9 2.11 Clash score 9.35 9.44 20.2 Ramachandran plot (%) Outliers 0 0 0 Outliers 0 0 0 Allowed 7.82 5.96 4.5 Favored 92.18 94.04 95.5 Rama-Z (Ramachandran plot (%) whole (N = 1821) -0.95 (0.16) -0.15 (0.19) 0.53 (0.21) helix (N = 432) 1.02 (0.19) 2.28 (0.23) 2.46 (0.26) sheet (N = 415) -0.59 (0.22) 0.60 (0.27) -0.08 (0.27) loop (N = 974) -1.82 (0.17) -1.66 (0.18) -0.39 (0.21) Rotamer outliers (%) 0 0 0 0 Cis proline/general 0.0/0.0 0.0/0.0 0.0/0.0 0 Twisted proline/general 0.0/0.0 0.0/0.0 0.0/0.0 0 Iso/Aniso (#) 20440/0 15594/0 14096/0 14096/0	Angles (°) ($\sigma > 4$ Å)	0.555	5 (23)	0.499	9 (12)	0.376 (1)	
Clash score 9.35 9.44 20.2 Ramachandran plot (%) Outliers 0 0 0 Allowed 7.82 5.96 4.5 Favored 92.18 94.04 95.5 Rama-Z (Ramachandran plot Z-score, RMSD) whole (N = 1821) -0.95 (0.16) -0.15 (0.19) 0.53 (0.21) helix (N = 432) 1.02 (0.19) 2.28 (0.23) 2.46 (0.26) sheet (N = 415) -0.59 (0.22) 0.60 (0.27) -0.08 (0.27) loop (N = 974) -1.82 (0.17) -1.66 (0.18) -0.39 (0.21) Rotamer outliers (%) 0 0 0 0 Cg outliers (%) 0 0 0 0 0 Cis proline/general 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 CaBLAM outliers (%) 4.21 3.14 1.78 ADP (B-factors)	MolProbity score	1.9	98	1.	.9	2.11	
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whole (N = 1821) -0.95 (0.16) -0.15 (0.19) 0.53 (0.21) helix (N = 432) 1.02 (0.19) 2.28 (0.23) 2.46 (0.26) sheet (N = 415) -0.59 (0.22) 0.60 (0.27) -0.08 (0.27) loop (N = 974) -1.82 (0.17) -1.66 (0.18) -0.39 (0.21) Rotamer outliers (%) 0 0 0 0 Cβ outliers (%) 0 0 0.060 0 0 Cis proline/general 0.0/0.0 0.0/0.0 0.0/0.0 0 0 0 Twisted proline/general 0.0/0.0 0.0/0.0 0.0/0.0 <	Rama-Z (Ramachandran plot Z-score, RMSD)						
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sheet (N = 415) -0.59 (0.22) 0.60 (0.27) -0.08 (0.27) loop (N = 974) -1.82 (0.17) -1.66 (0.18) -0.39 (0.21) Rotamer outliers (%) 0 0 0 Cβ outliers (%) 0 0 0 Peptide plane (%) - - - Cis proline/general 0.0/0.0 0.0/0.0 0.0/0.0 Twisted proline/general 0.0/0.0 0.0/0.0 0.0/0.0 CaBLAM outliers (%) 4.21 3.14 1.78 ADP (B-factors) - - - Iso/Aniso (#) 20440/0 15594/0 14096/0 min/max/mean - - - Protein 22.90/70.57/36.57 62.66/181.84/102.87 41.27/169.18/66.95 Nucleotide - - - - Uigand - - - -	helix (N = 432)	1.02	(0.19)	2.28	(0.23)	2.46	(0.26)
loop (N = 974) -1.82 (0.17) -1.66 (0.18) -0.39 (0.21) Rotamer outliers (%) 0 0 0 0 Cβ outliers (%) 0 0 0.06 0 Peptide plane (%) 0 0.0/0.0 0.0/0.0 0.0/0.0 Cis proline/general 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 Twisted proline/general 0.0/0.0 0.0/0.0 0.0/0.0 0.0/0.0 CaBLAM outliers (%) 4.21 3.14 1.78 ADP (B-factors) Iso/Aniso (#) 20440/0 15594/0 14096/0 Mucleotide Water Occupancy	sheet (N = 415)	-0.59	(0.22)	0.60	(0.27)	-0.08	(0.27)
Rotamer outliers (%) 0 0 0 0 Cβ outliers (%) 0 0 0.066 Peptide plane (%) Cis proline/general 0.0/0.0 0.0/0.0 0.0/0.0 Twisted proline/general 0.0/0.0 0.0/0.0 0.0/0.0 CaBLAM outliers (%) 4.21 3.14 1.78 ADP (B-factors) Iso/Aniso (#) 20440/0 15594/0 14096/0 min/max/mean Protein 22.90/70.57/36.57 62.66/181.84/102.87 41.27/169.18/66.95 Nucleotide Ligand Water Occupancy	loop (N = 974)	-1.82	(0.17)	-1.66	(0.18)	-0.39	(0.21)
Cβ outliers (%) 0 0 0.06 Peptide plane (%) Cis proline/general 0.0/0.0 0.0/0.0 0.0/0.0 Twisted proline/general 0.0/0.0 0.0/0.0 0.0/0.0 CaBLAM outliers (%) 4.21 3.14 1.78 ADP (B-factors) Iso/Aniso (#) 20440/0 15594/0 14096/0 min/max/mean Protein 22.90/70.57/36.57 62.66/181.84/102.87 41.27/169.18/66.95 Nucleotide Uigand Occupancy	Rotamer outliers (%)	C)	()	()
Peptide plane (%)	Cβ outliers (%)	C)	()	0.	06
Cis proline/general 0.0/0.0 0.0/0.0 0.0/0.0 Twisted proline/general 0.0/0.0 0.0/0.0 0.0/0.0 CaBLAM outliers (%) 4.21 3.14 1.78 ADP (B-factors)	Peptide plane (%)						
Twisted proline/general 0.0/0.0 0.0/0.0 0.0/0.0 CaBLAM outliers (%) 4.21 3.14 1.78 ADP (B-factors) Iso/Aniso (#) 20440/0 15594/0 14096/0 min/max/mean Protein 22.90/70.57/36.57 62.66/181.84/102.87 41.27/169.18/66.95 Nucleotide Ligand Water Occupancy	Cis proline/general	0.0/0.0		0.0	/0.0	0.0/0.0	
CaBLAM outliers (%) 4.21 3.14 1.78 ADP (B-factors) Iso/Aniso (#) 20440/0 15594/0 14096/0 min/max/mean Protein 22.90/70.57/36.57 62.66/181.84/102.87 41.27/169.18/66.95 Nucleotide Ligand Water Occupancy	Twisted proline/general	0.0/0.0		0.0	/0.0	0.0/0.0	
ADP (B-factors) ADP (B-factors) Iso/Aniso (#) 20440/0 15594/0 14096/0 min/max/mean Protein 22.90/70.57/36.57 62.66/181.84/102.87 41.27/169.18/66.95 Nucleotide Ligand Water Occupancy	CaBLAM outliers (%)	4.21		3.14		1.78	
Iso/Aniso (#) 20440/0 15594/0 14096/0 min/max/mean <td< td=""><td>ADP (B-factors)</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	ADP (B-factors)						
min/max/mean	Iso/Aniso (#)	20440/0		15594/0		14096/0	
Protein 22.90/70.57/36.57 62.66/181.84/102.87 41.27/169.18/66.95 Nucleotide Ligand Water Occupancy	min/max/mean						
Nucleotide Ligand Water Occupancy	Protein	22.90/70.57/36.57		62.66/181.84/102.87		41.27/169.18/66.95	
Ligand Water Occupancy	Nucleotide						
Water Occupancy	Ligand						
Occupancy	Water			-		-	
	Occupancy						
Mean 1 1 1	Mean	1			1		1
occ = 1 (%) 100 100 100	occ = 1 (%)	10	00	100		100	
0 < occ < 1 (%) 0 0 0	0 < occ < 1 (%)	0)	0		0	
occ > 1 (%) 0 0 0	occ > 1 (%)	0		0		0	
Data	Data						
Lengths (A) 230.11, 184.42, 99.55 151.8, 162.36, 102.96 117.5, 114.24, 298.66	Lengths (A)	230.11, 184.42, 99.55		151.8, 162.36, 102.96		117.5, 114.24, 298.66	
Angles (A) 90, 90, 90 90, 90, 90 90, 90, 90	Angles (A)	90, 90, 90		90, 90, 90		90, 90 , 90	
Supplied Resolution (A) 3.3 3.5 3.3	Supplied Resolution (A)	3.3		3.5		3.3	
Resolution Estimates (A) Masked Unmasked Masked Unmasked Unmasked Unmasked	Resolution Estimates (A)	Masked	Unmasked	Masked	Unmasked	Masked	Unmasked
d FSC (half maps; 0.143)	d FSC (half maps; 0.143)						
d 99 (full/half1/half2) 2.9// 2.9// 3.8// 3.6// 3.4// 3.4//	d 99 (full/half1/half2)	2.9//	2.9//	3.8//	3.6//	3.4//	3.4//
d model 3.2 3.2 3.5 3.6 3.3 3.3	d model	3.2	3.2	3.5	3.6	3.3	3.3
a r SC model /2.3/3.3 /2.5/7.6 3.1/3.2/3.6 3.1/3.5/6.0 2.9/3.1/3.4 3.0/3.2/3.8	a FSC model (0/0 143/0 5)	/2.3/3.3	/2.5/7.6	3.1/3.2/3.6	3.1/3.5/6.0	2.9/3.1/3.4	3.0/3.2/3.8
(00.1+30.3)	Man min/max/mean	0.00/0	14/0 00	-0.02/0.06/0.00		-0.07/0.15/0.00	
Model vs Data	Model vs. Data	0.00/0.	14/0.00	-0.02/0	.00/0.00	-0.07/0.15/0.00	
CC (mask) 0.87 0.81 0.85	CC (mask)	0.9	37	0.9	81	0.95	
CC (hox) 0.57 0.61 0.65	CC (box)	0.0	56	0.0	57	C0.0	
CC (peaks) 0.56 0.26 0.08	CC (peaks)	06.0		0.57		0.4	
CC (volume) 0.82 0.81 0.81	CC (volume)	0.0	32	0.	81	U.Uŏ 0.01	
Mean CC for ligands	Mean CC for ligands						

- 110 Relates to Methods sections "Icosahedral and asymmetric image reconstructions of the HRP29
- 111 <u>virion"</u>, "<u>Icosahedral reconstruction of the HRP29 procapsid</u>", & <u>"Model building and refinement"</u>
- 112
- 113
- 114