Structure, Volume 26

Supplemental Information

Solution Structures of Engineered Vault Particles

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Inventory of Supplementary Information

Two supplementary figures (Figure S1 related to Figure 1, Figure S2 related to star methods)

One supplementary table (Table S1 related to star methods)

One supplementary movie (Movie S1 related to Figure 3, showing MVP conformation changes between the two conformers of vault in solution)

Figure S1 Data quality validation. Related to Figure 1C



Figure S1 1-D plot of a raw micrograph shows that signal is transferred to atomic resolution.



Table S1 Structural statistics of the two conformers.Related to star methods.

Conformation ID		# 1	# 2
B-factor for map (Ų)		-160	-225.5
MapCC (around atoms)		0.763	0.748
Phenix RMSD	Bond (Å)	0.0026	0.0032
	Angles	0.66	0.77
Ramachandran plot (from [–] Phenix) –	Outliers	0.77%	0.78%
	Allowed	4.12%	4.18%
	Favored	95.10%	95.04%
All atom clash score		10.94	12.90
Cα RMSD Value to PDB 4HL8		1.3 Å	5.95 Å
Rotamer outliers		0.00%	0.00%
C-beta deviation		0	0