Supplementary Tables

Table S1, rel	ated to Figure	1. Plasmids use	d in this study.
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AP-1 core	Hs AP1S3/His-TEVsite-Hs AP1B1 (1-584)/Mm AP1G (1-595)-TEVsite-GST/Mm AP1M1				
	in pST44 vector				
AP-1 ΔβArf	AP1B1_I85D/V88D in AP-1 core/pST44 construct				
AP-1 ΔγArf	AP1G_L68D/L71E/L102E in AP-1 core/pST44 construct				
Arfl	His-TEVsite-Hs Arf1 (17-181)-Q71L in pHis2 vector				
Tetherin-Nef	His-TEVSite-Hs Tetherin (1-21)- GSDEASEGSG-NL4-3 Nef in pHis2 vector				
Tetherin-Nef_LL/AA	His-TEVSite-Hs Tetherin (1-21)- GSDEASEGSG-NL4-3 Nef-L164A/L165A in pHis2				
	vector				
Tetherin-MRCA Nef	His-TEVSite-Hs Tetherin (1-21)- GSDEASEGSG-O-MRCA Nef in LIC 1B vector				
MHC-Nef	His-TEVSite-Hs MHC-I (338-365)-NL4-3 Nef in pHis2 vector				
Nef	His-TEVSite-NL4-3 Nef in pHis2 vector				
His-MBP-CK1	His-MBP-TEVsite-Rat CK18 (1-317) in LIC 2C-T vector				
HIV-1 ∆Vpu∆Nef	NL4-3 HIV-1 provirus with deletion of nt3-nt146 in vpu and aa 1,4 and 5 mutated to stop in				
	nef in pBR vector				
O-MRCA Nef	OMRCA Nef with C-terminal AU1-tag in pCG IRES-eGFP vector				
NL4-3 Nef	NL4-3 Nef with C-terminal AU1-tag in pCG IRES-eGFP vector				
O-MRCA Nef C174S	OMRCA Nef C174S with C-terminal AU1-tag in pCG IRES-eGFP vector				
NL4-3 Nef S169A	NL4-3 Nef S169A with C-terminal AU1-tag in pCG IRES-eGFP vector				
Vpu	vpu with C-terminal AU1-tag in pCG IRES-eGFP vector				
Empty vector control	nef with stop codon at position 2,3 and 4 in pCG vector				
Tetherin	human tetherin in pCG vector				

Table S2, related to Figure 1. EM and model statistics.

Мар	Wild type	Wild type	Wild type	Wild type	Mutant L2A	Mutant L2A
	Monomer	Trimer	Trimer	Trimer	Dimer	Dimer
		menemerie		(stable subset)	menemerie	
Data collection		monomeric		(stable subset)	monomeric	
Microscope	FEI Titan Krios					
Voltage (kV)	300	300	300	300	300	300
Detector	Gatan K2					
Recording mode	Super	Super	Super	Super	Super	Super
Magnification	53.350	53.350	53.350	53.350	53.350	53.350
Movie micrograph pixel size (Å)	1.067	1.067	1.067	1.067	1.067	1.067
Dose rate (e/Å ² /sec)	6.57	6.57	6.57	6.57	7.09	7.09
Number of frames per movie micrograph	38	38	38	38	28	28
Frame exposure time (ms)	250	250	250	250	200	200
Movie exposure time (ms)	9.500	9.500	9.500	9.500	5.600	5.600
Total dose (e ⁻ /Å ²)	62.42	62.42	62.42	62.42	39.7	39.7
Defocus range (um)	-0.75 to -2.00	-0.75 to -2.00	-0.75 to -2.00	-0.75 to -2.00	-0.75 to -2.50	-0.75 to -2.50
EM data processing						
EMDB code	7455	7457	7458	7563	7453	7454
Complex ordered molecular weight (kDa)	233	233	698	698	466	233
Number of movies/micrographs	2,200	2,200	2,200	2,200	1,989	1,989
Box size (px)	384	224	384	384	256	384
Particle number (total)	252,212	252,212	252,212	252,212	399,032	399,032
Particle number (post 2D)	209,816	209,816	209,816	209,816	162,509	162,509
Particle number (post 3D)	53,123	61,929	61,929	11,108	85,804	42,902
Particle number (used in final map)	53,123	53,841	61,929	11,108	85,592	42,902
Refinement angular accuracy (°)	2.61	2.28	2.70	1.66	1.43	1.12
Refinement offset accuracy (Å)	1.34	0.99	1.90	1.22	0.94	0.54
Symmetry	C1	C1	C1	C1	C1	C1
Map resolution (FSC 0.143)	3.90	3.73	4.27	6.83	4.27	6.72
Measured map B-factor (Å ²)	-93.6	-136.6	-124.6	-277.2	-151.2	-398.7
CryoEF score	0.77	0.76	0.78	0.70	0.46	0.47
CryoEF worst/best PSF resolution (Å)	4.39/2.29	4.58/2.45	4.39/2.45	5.20/2.45	7.18/2.18	6.96/2.18
3DFSC sphericity	0.97	0.99	0.96	0.98	0.77	0.97
Structure Building and Validation						
PDB ID	6DFF	6CM9		6CRI	6D83	6D84
Number of atoms in deposited model	16,594	17,683		53,049	16,588	33,176
MolProbity clashscore, all atoms	4.64	5.85		11.73	6.08	8.05
MolProbity score	1.59	1.81		1.94	1.69	1.76
EMRinger score	2.07	2.28		-	1.15	-
Refinement program	Phenix	Phenix		Phenix	Phenix	Phenix
RMSD from ideal						
Bond length (Å)	0.01	0.01		0.01	0.01	0.01
Bond angles (°)	1.17	1.32		1.23	1.19	1.16
Ramachandran plot						
Favored (%)	94.9	92.0		94.8	95.0	95.4
Allowed (%)	5.1	8.0		5.2	5.0	4.6
Outliers (%)	0.0	0.0		0.0	0.0	0.0
Favored rotamers (%)	100.0	99.7		99.9	100.0	99.9
Average atomic	84.6	29.3		425.2	89.2	381.7
FSC (0.5) model-vs-map	3.99	3.85		8.04	4.35	8.93
CC model-vs-map (masked)	0.81	0.76		0.79	0.76	0.69