

Table S1: Data collection and Refinement Statistics

SIVmac239 CA NTD	
Data Collection	APS ID-24-E
Resolution, Å	50-2.9 (2.95-2.90)
Wavelength (Å)	0.9792
Space Group	P212121
Unit cell dimensions (a, b, c), Å	24.61, 56.66, 102.57
Unit cell angles (α , β , γ) °	90,90,90
mean I/ σ	17.17 (3.0)
Rsym	0.063 (0.365)
Completeness, %	99.46 (95.10)
Number of reflections	15,453
Redundancy	4.4
Refinement	
Resolution, Å	2.9
Number of reflections:	
Working	3,345
Free	152
Rwork, %	25.4
Rfree, %	29.2
Ramachandran plot,	
% favored	89.1 (123/138)
% disallowed	0.72 (1/138)
Rmsd bond lengths, Å	0.0111
Rmsd bond angles, °	1.37
Average B-factor	109.3

Note: values in parentheses denotes highest resolution shell