

## Additional file 3

### The matrix domain contributes to the nucleic acid chaperone activity of HIV-2 Gag

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MA proteins of HIV-1 (PDB id. 2HMX) (**A**) and HIV-2 (PDB id. 2K4E) (**B**) represented by their molecular surfaces. A green arrow denotes the N terminus. Electrostatic potentials were calculated using Adaptive Poisson-Boltzmann Solver (APBS) [1] and visualized using PyMOL. Additional movie file (Additional File 4) presents this in more detail.

[1] Baker NA, Sept D, Joseph S, Holst MJ, McCammon JA. Electrostatics of nanosystems: application to microtubules and the ribosome. Proc. Natl. Acad. Sci. USA 2001;98(18): 10037-10041. doi: 10.1073/pnas.181342398

