







Key to annotations

The following Vif protein motifs descriptions are based on criteria established by Bell *et al*, 2007.

- Tryptophans (W⁵, W¹¹, W²¹, W³⁸ & W⁷⁹) involved in APOBEC3G recognition and suppression are shown in cyan highlight).
- APOBEC3 binding motifs are shown in dark blue highlight; the C-terminal APOBEC3F-binding motif (W¹⁷¹EDRWN¹⁷⁵) is not highlighted for simplicity.
- The W⁸⁸E⁸⁹ motif located in central hydrophilic region known to be involved in enhancing steady state expression is shown in yellow highlight and red font.
- The nuclear localization inhibitory signal (W⁹⁰RLRR⁹³) is shown in red highlight. Sequences not having the consensus RLRR motif but having residues with conservative physicochemical properties are also shown in highlight.
- The S⁹⁵T⁹⁶ CKII and p44/42 Mitogen-Activated Protein Kinase (MAPK) phosphorylation sites are shown in magenta highlighting. Residues other than ST that can also be phosphorylated are also shown in highlight.
- In any case, clinical isolate or subtype consensus sequences not having the aforementioned functional sites or motifs are shown without highlight in the corresponding region (i.e. W¹¹ which in MX071_2 is represented by an R¹¹).
- The zinc-binding motif (H¹⁰⁸C¹¹⁴C¹³³H¹³⁹) is shown in black highlight and white font.
- Viral BC Box (W¹⁴⁴SLQYLAALALITPK..W¹⁵⁸) is shown in green highlight and based on the criteria suggested by Bizinoto *et al*, 2013.
- The protease processing site (L¹⁵⁰) is also shown in black highlight.
- Threonine phosphorylation sites (T¹⁵⁵ and T¹⁷⁰) are shown in yellow highlight.
- The Cullin-binding box (W¹⁵⁹KPPLPSVTKLTEDR¹⁷³) is shown in grey highlight.

References

Molecular characterization of the HIV type 1 subtype C accessory genes vif, vpr, and vpu. Bell CM, Connell BJ, Capovilla A, Venter WD, Stevens WS, Papathanasopoulos MA. AIDS Res Hum Retroviruses. 2007 Feb;23(2):322-30.

Codon pairs of the HIV-1 vif gene correlate with CD4+ T cell count. Bizinoto MC, Yabe S, Leal É, Kishino H, Martins Lde O, de Lima ML, Morais ER, Diaz RS, Janini LM. BMC Infect Dis. 2013 Apr 11;13:173.