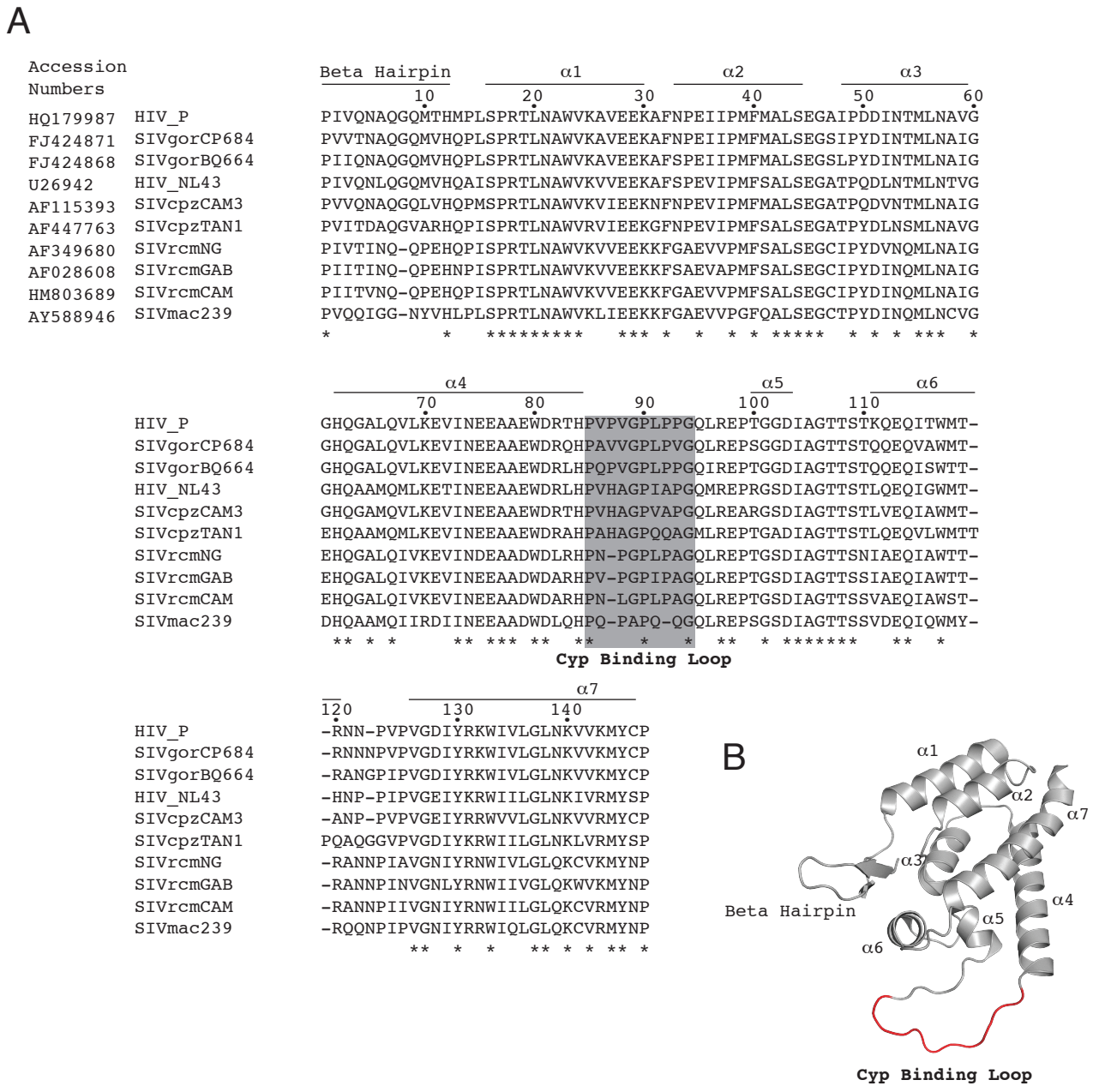
**Figure S2**


A
Accession Numbers
Beta Hairpin
α1
α2
α3
HQ179987 HIV_P PIVQNAQGQMTHMPLSPRTLNAWVKAVEEKAFNPEIIPMFMALSEGAIPDDINTMLNAVG
FJ424871 SIVgorCP684 PVVTNAQGQMVHQPLSPRTLNAWVKAVEEKAFNPEIIPMFMALSEGSIPYDINTMLNAIG
FJ424868 SIVgorBQ664 PIIQNAQGQMVHQPLSPRTLNAWVKAVEEKAFSPEIIPMFMALSEGSLPYDINTMLNAIG
U26942 HIV_NL43 PIVQNLQGQMVHQAISPRTLNAWVKVVEEKAFSPEVIPMFSALSEGATPQDLNTMLNTVG
AF115393 SIVcpzCAM3 PVVQNAQGQLVHQPMSPRTLNAWVKVIEEKNFNPEVIPMFMALSEGATPQDVNTMLNAIG
AF447763 SIVcpzTAN1 PVITDAQGVARHQPISPRTLNAWVRVIEEKGFNPEVIPMFSALSEGATPYDLNSMLNAVG
AF349680 SIVrcmNG PIVTINQ-QPEHQPISPRTLNAWVKVVEEKKFGAEVVPMFSALSEGCIPYDVNQMLNAIG
AF028608 SIVrcmGAB PIITINQ-QPEHNPISPRTLNAWVKVVEEKKFSAEVAPMFSALSEGCIPYDINQMLNAIG
HM803689 SIVrcmCAM PIITVNQ-QPEHQPISPRTLNAWVKVVEEKKFGAEVVPMFSALSEGCIPYDINQMLNAIG
AY588946 SIVmac239 PVQQIGG-NYVHLPLSPRTLNAWVKLIEEKKFGAEVVPGFQALSEGCTPYDINQMLNCVG
α4
α5
α6
HIV_P GHQGALQVLKEVINEEAAEWDRTHPVPVGPLPPGQLREPTGGDIAGTTSTKQEQITWMT-
SIVgorCP684 GHQGALQVLKEVINEEAAEWDRQHPAVVGPLPVGQLREPSGGDIAGTTSTQQEQVAWMT-
SIVgorBQ664 GHQGALQVLKEVINEEAAEWDRLHPQPVGPLPPGQIREPTGGDIAGTTSTQQEQISWTT-
HIV_NL43 GHQAAMQMLKETINEEAAEWDRLHPVHAGPIAPGQMREPRGSDIAGTTSTLQEQIGWMT-
SIVcpzCAM3 GHQGAMQVLKEVINEEAAEWDRTHPVHAGPVAPGQLREARGSDIAGTTSTLVEQIAWMT-
SIVcpzTAN1 EHQAAMQMLKEVINEEAAEWDRAHPAHAGPQQAGMLREPTGADIAGTTSTLQEQVLWMTT
SIVrcmNG EHQGALQIVKEVINDEAADWDLRHPN-PGPLPAGQLREPTGSDIAGTTSNIAEQIAWTT-
SIVrcmGAB EHQGALQIVKEVINEEAADWDARHPV-PGPIPAGQLREPTGSDIAGTTSSIAEQIAWTT-
SIVrcmCAM EHQGALQIVKEVINEEAADWDARHPN-LGPLPAGQLREPTGSDIAGTTSSVAEQIAWST-
SIVmac239 DHQAAMQIIRDIINEEAADWDLQHPQ-PAPQ-QGQLREPSGSDIAGTTSSVDEQIQWMY-
Cyp Binding Loop
α7
HIV_P -RNN-PVPVGDIYRKWIVLGLNKVVKMYCP
SIVgorCP684 -RNNNPVPVGDIYRKWIVLGLNKVVKMYCP
SIVgorBQ664 -RANGPIPVGDIYRKWIVLGLNKVVKMYCP
HIV_NL43 -HNP-PIPVGEIYKRWIILGLNKIVRMYSP
SIVcpzCAM3 -ANP-PVPVGEIYRRWVVLGLNKVVRMYCP
SIVcpzTAN1 PQAQGGVPVGDIYKRWIILGLNKLVRMYSP
SIVrcmNG -RANNPIAVGNIYRNWIVLGLQKCVKMYNP
SIVrcmGAB -RANNPINVGNLYRNWIIVGLQKWVKMYNP
SIVrcmCAM -RANNPIIVGNIYRNWIILGLQKCVRMYNP
SIVmac239 -RQQNPIPVGNIYRRWIQLGLQKCVRMYNP
B
α1
α2
α7
α3
α4
Beta Hairpin
α5
α6
Cyp Binding Loop