Supplementary File S1A.

Sample set of 3725 *env*/*asp* overlapping regions fulfilling the following criteria: i) an *asp* anti-sense frame not interrupted by premature *stop* codons; ii) delimited by an ATG initiator at canonical nucleotide positions (triplet CAT at the end of the sequence) and a *stop* codon at canonical nucleotide positions (triplet CTA at the beginning of the sequence). Definition of canonical nucleotide positions is reported in the Materials and Methods**;** *2.1 Assembly of a sample set of 3725 env/asp overlaps*. All sequences belong to the group M of HIV-1 except for SIVcpzMB66 (NCBI acc. number DQ373063). The nucleotide sequence of each *env*/*asp* overlap is reported both in the alignment format with gaps and in the format without gaps.

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