

Additional Files

The landscape of alternative splicing in HIV-1 infected CD4 T-cells

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Running title

Alternative splicing in CD4 T-cells harboring HIV-1

Additional Files

Additional file 1 (.pdf):

Figure S1. Overview of AS analysis in HIV-infected and non-infected human primary resting CD4⁺ T-cells.

Figure S2. 23 canonical pathways enriched in 427 HIV-associated AS genes. The red line indicates the cutoff FDR value, $q < 0.05$.

Figure S3. 21 GO terms enriched in 427 HIV-associated AS genes.

Figure S4. A plot for providing evidence to select quiescent cells.

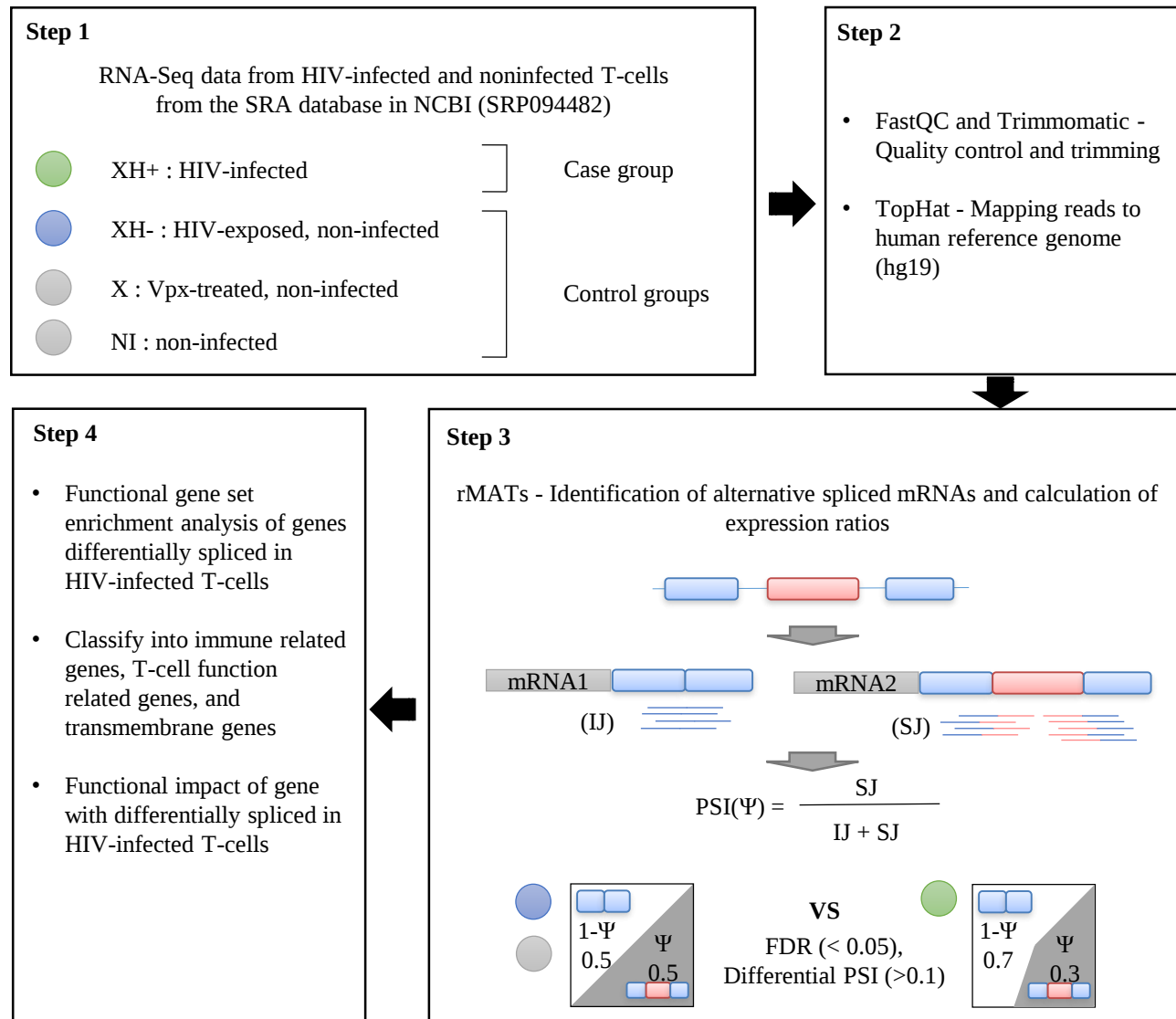
Figure S5. A hierarchically clustered heat map with PSI levels of significant AS events.

Figure S6. Skipping of *CD46* exon 7 skipping in the HIV-infected T-cells.

Additional file 2 (.xlsx): Table S1. List of AS exons in the infected T-cells

Additional file 3 (.xlsx): Table S2. List of AS genes in the enriched canonical pathways

Additional file 4 (.xlsx): Table S3. List of AS genes in the enriched GO terms



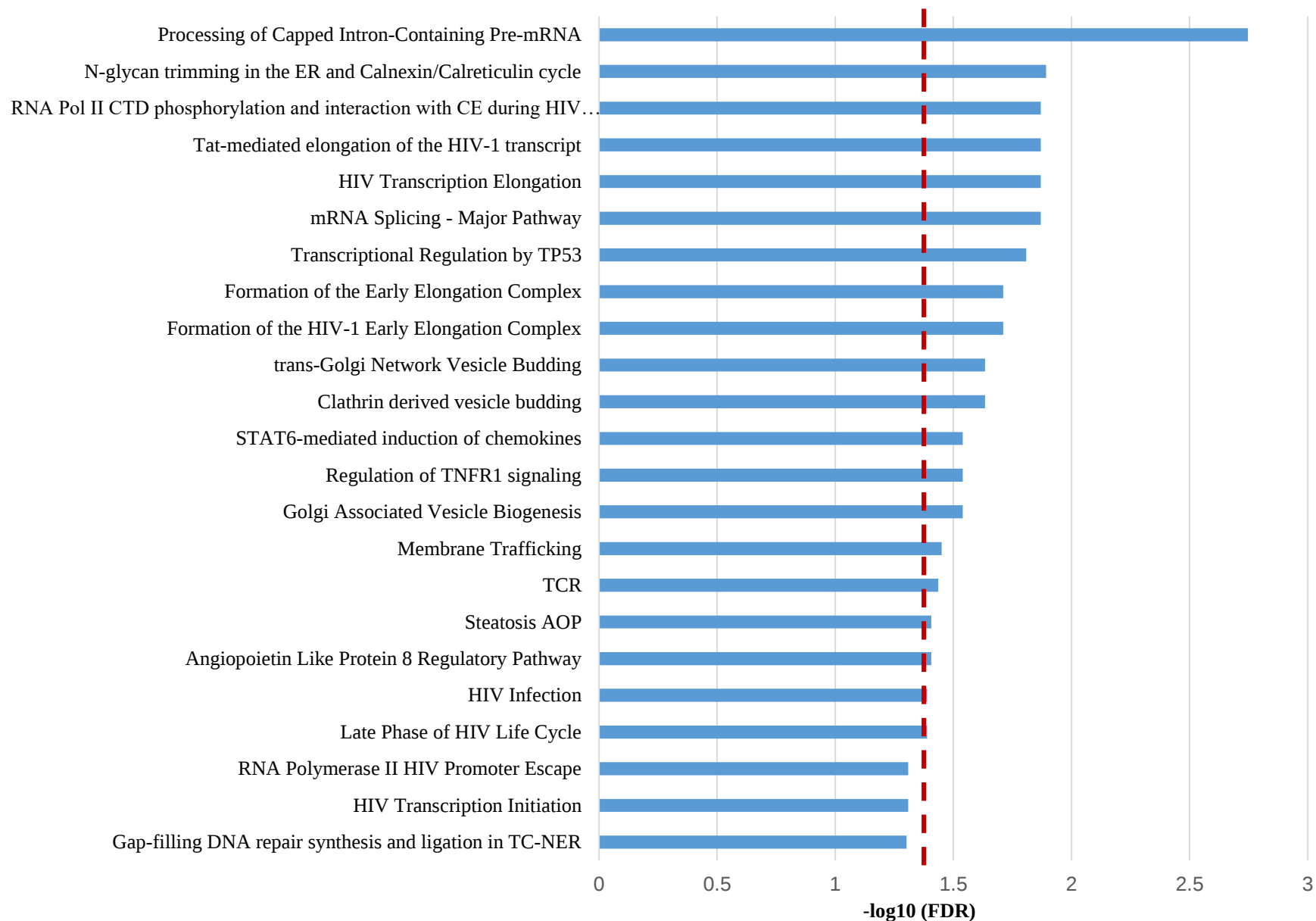


Figure S2. 23 canonical pathways enriched in 427 HIV-associated AS genes. The red line indicates the cutoff FDR value, $q < 0.05$.

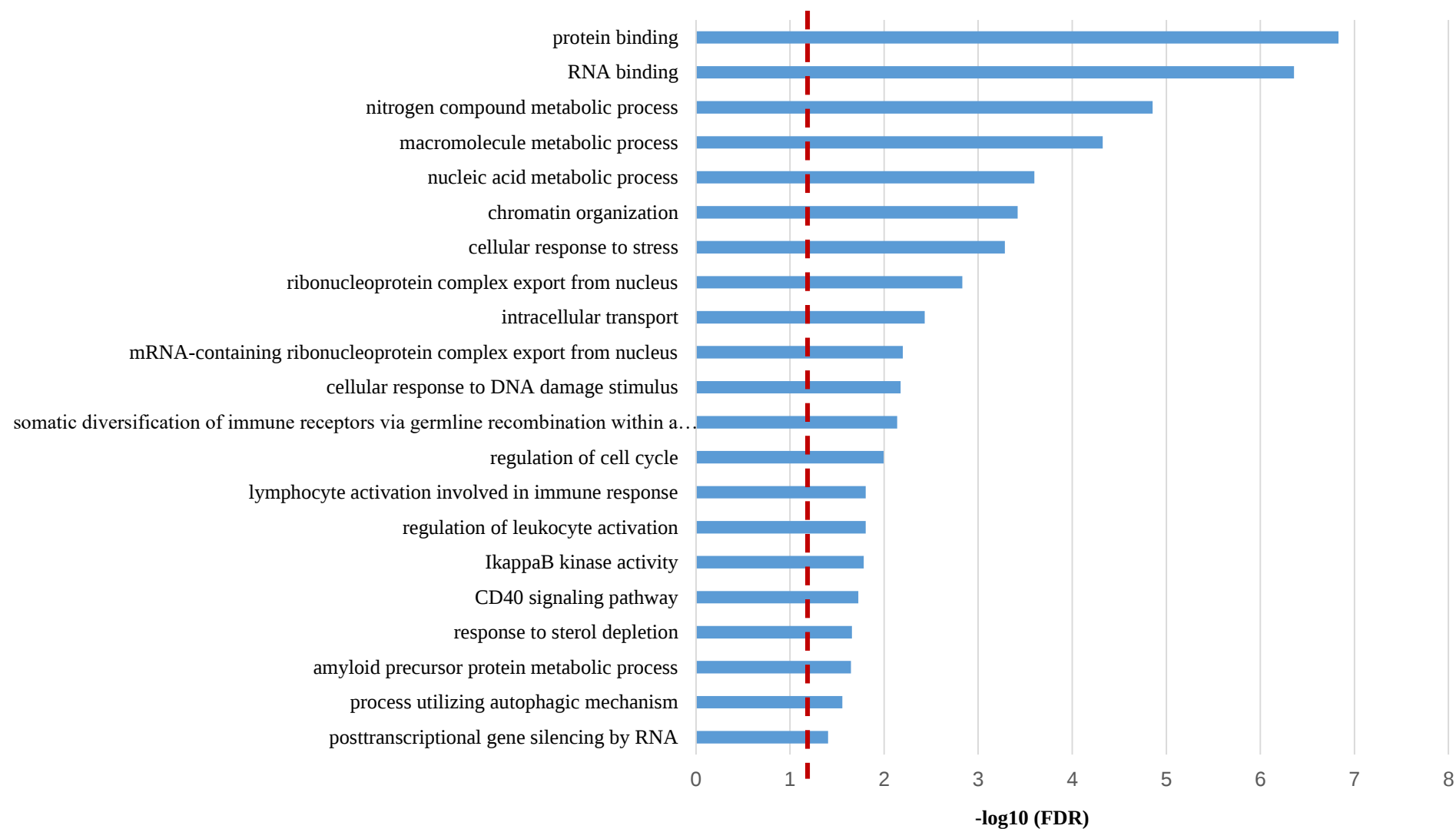


Figure S3. 21 GO terms enriched in 427 HIV-associated AS genes. GO Biological Process (BP) and Molecular Function (MF) terms were considered significant at a FDR corrected q-value < 0.05 (red line).

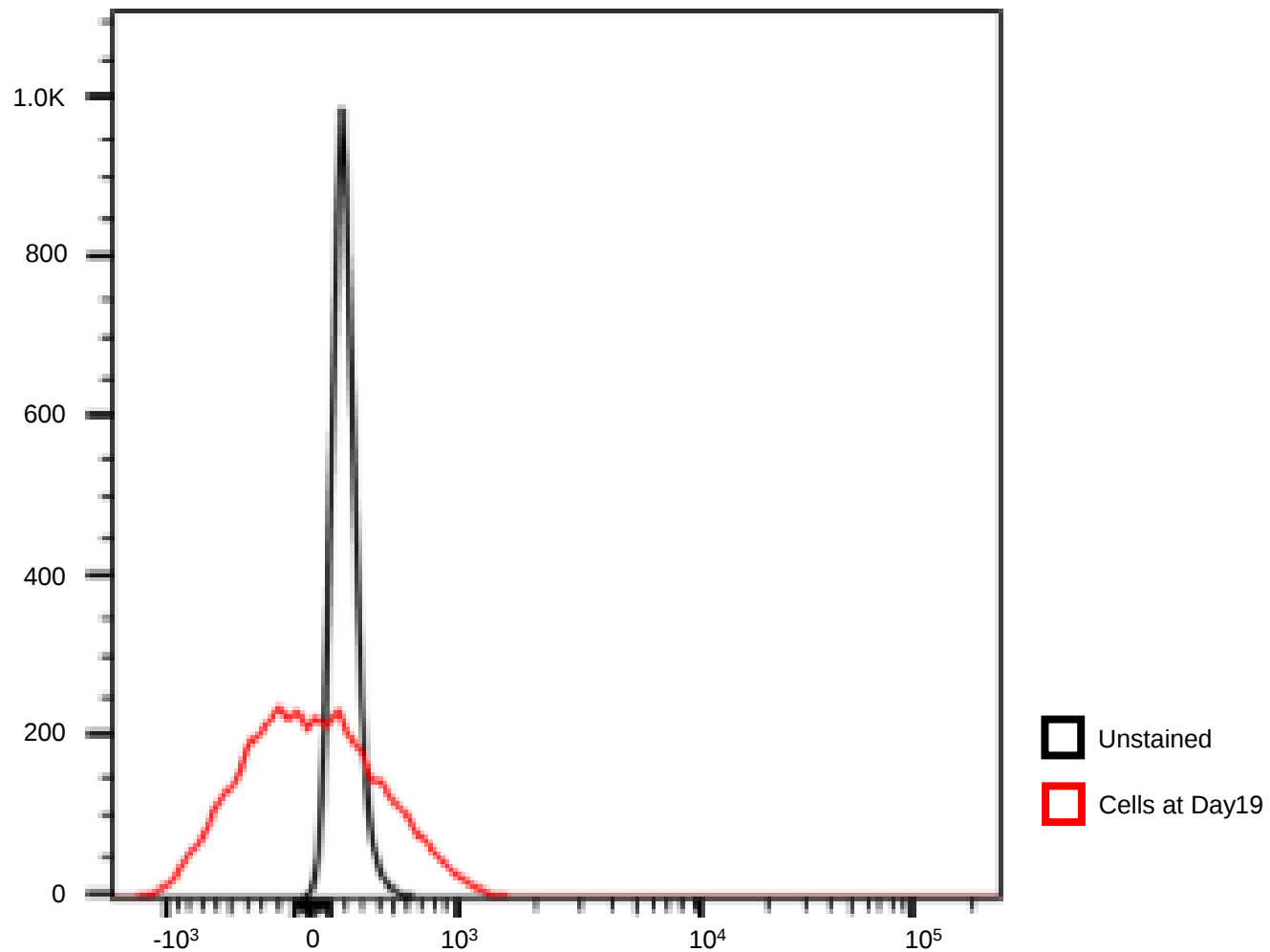


Figure S4. A plot for providing evidence to select quiescent cells. Ki67 is a proliferation marker, which is not expressed in quiescent cells but is expressed in dividing cells. The graph below shows the ki67 level of cells at Day19 (red line), which was negative, indicative of lack of cell division.

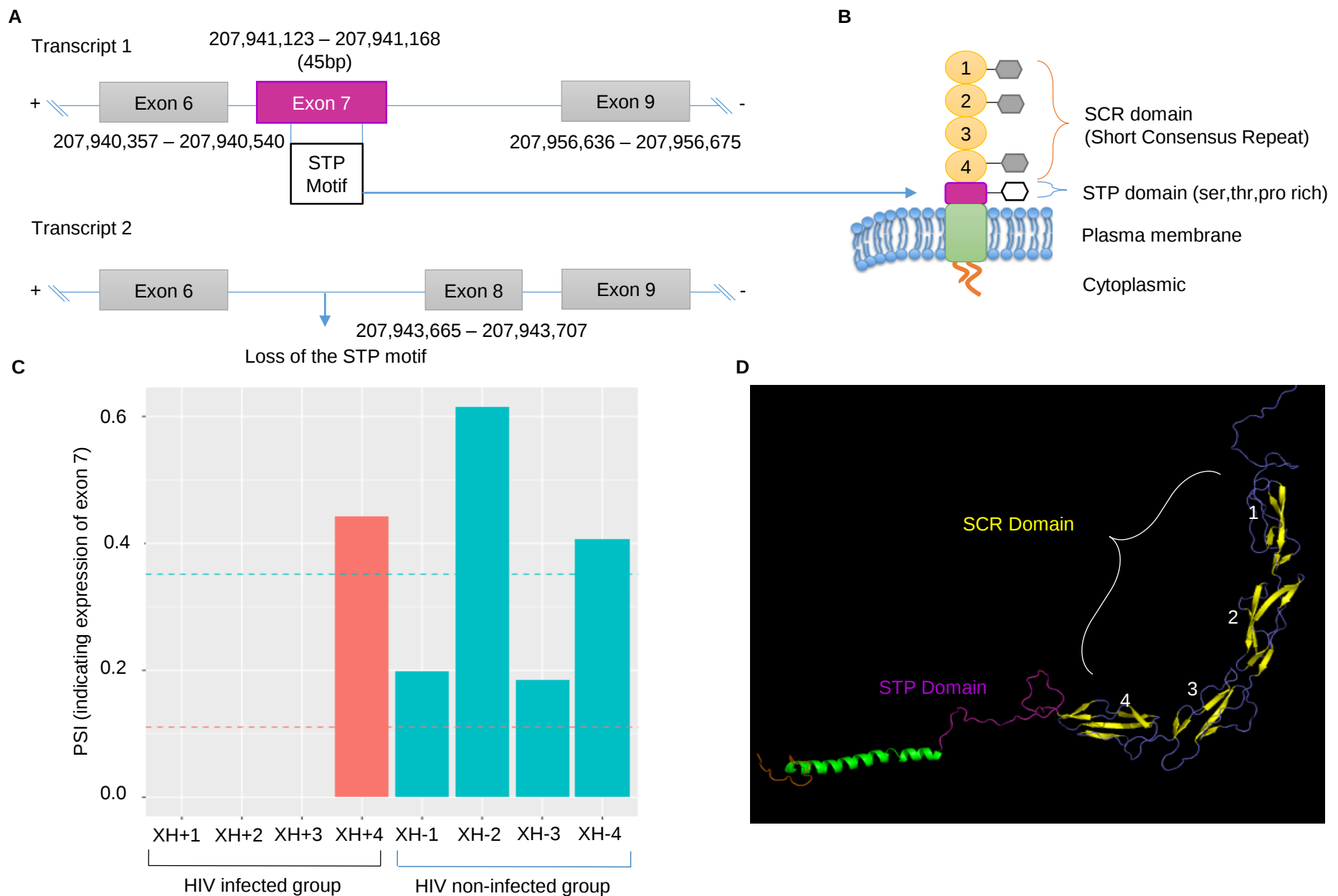


Figure S6. Skipping of CD46 exon 7 skipping in the HIV-infected T-cells. (A) Skipping of exon 7 in transcript 2 and retention of exon 8 (i.e. mutually exclusive exon event) affects the entire STP motif. (B) Location of the STP domain in CD46 protein. (C) Reduced expression of exon 7 in HIV-infected samples (p value < 7.216e-05). (D) Protein structure of CD46 with the STP domain indicated in purple.