Supplemental Material

Analysis of the Human Immunodeficiency Virus-1 RNA Packageome

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Supplemental Table S1. Most abundant RNAs in HIV RNA-Seq

| RNA                | Replicate 1 | RNA    | Replicate 2 |
|--------------------|-------------|--------|-------------|
| 7SL                | 755,390     | 7SL    | 728,117     |
| HIV gRNA           | 124,917     | HIV gRNA | 144,495   |
| AluY               | 24,734      | 5.8S rRNA | 41,790  |
| 18S rRNA           | 23,221      | 5S rRNA | 22,657      |
| AluS               | 21,072      | 18S rRNA | 14,805    |
| 5S rRNA            | 14,834      | AluY   | 8,634       |
| 5.8S rRNA          | 10,349      | 28S rRNA | 7,933    |
| U1                 | 4,466       | U1     | 7,465       |
| 28S rRNA           | 3,004       | AluS   | 5,932       |
| LINE-1 H           | 1,856       | snr-A  | 2,493       |
| tRNA-Lys-CTT       | 1,412       | U6atac | 1,374       |
| U6                 | 1,212       | vtRNA1-1 | 1,281     |
| AluJ               | 1,139       | mt 16S rRNA | 1,175 |
| U2                 | 1,035       | U6     | 843         |
| hY1                | 1,034       | mt 12S rRNA | 842      |
| tRNA-Cys-GCA       | 938         | tRNA-Lys-CTT | 692   |
| hY3                | 915         | hY4    | 656         |
| tRNA-Ala-TGC       | 839         | tRNA-Ala-AGC | 610    |
| tRNA-Val-TAC       | 764         | tRNA-Leu-CAA | 544   |
| RPPH1              | 714         | tRNA-Ala-TGC | 473    |
| U5                 | 702         | hY1    | 454         |
| 7SK                | 655         | RPPH1  | 435         |
| U6atac             | 643         | LINE-1 H | 430       |
| snr-A              | 509         | AluJ   | 413         |
| tRNA-Ile-AAT       | 439         | U2     | 396         |
| tRNA-Asp-GTC       | 306         | tRNA-Cys-GCA | 391   |
| tRNA-Tyr-GTA       | 259         | tRNA-Ser-TGA | 374   |
| tRNA-Glu-CTC       | 233         | 7SK    | 328         |
| mt 12S rRNA        | 231         | tRNA-Ser-GCT | 317   |
| mt 16S rRNA        | 212         | tRNA-Tyr-GTA | 252   |
| vtRNA1-1           | 173         | tRNA-Tyr-GTA | 252   |
| tRNA-Gly-TCC       | 144         | tRNA-Ala-CGC | 230   |
| tRNA-Gly-GCC       | 132         | tRNA-Glu-TTC | 208   |
| tRNA-Pro-TGG       | 125         | hY3    | 197         |
| tRNA-Gln-TTG       | 108         | tRNA-Lys-TTY | 186   |
| tRNA-Ser-TGA       | 104         | tRNA-Ile-AAT | 176   |
| tRNA-Sec-TCA       | 97          | tRNA-His-GTG | 132   |
| tRNA-Asn-GTT       | 91          | tRNA-Gly-CCC | 129   |
| tRNA-Val-CAT       | 89          | tRNA-Gly-TCC | 123   |
| RNaseMRP           | 83          | tRNA-Ile-TAT | 109   |
| tRNA-Ser-GCT       | 58          | vtRNA2-1 | 107       |
| tRNA-Lys-TTT       | 54          | U5     | 101         |
Table S2. Oligonucleotides used in this study

| Probes for Northern blotting (5’ to 3’) |
|----------------------------------------|
| 7SL                                    |
| tRNA-Lys-UUU                           |
| hY1                                    |
| hY3                                    |
| hY4                                    |
| hY5                                    |
| snaR-A                                 |
| vtRNA1-1                               |
| U1                                     |
| U6                                     |
| 5S                                     |
| tRNA-Cys-GCA                           |
| tRNA-Ser-UGA                           |
| tRNA-Tyr-GUA                           |
| tRNA-Ile-UUA intron                    |
| tRNA-Ile-UAU mature                    |
| tRNA-Leu-CAA intron                    |
| tRNA-Leu-CAA mature                    |
| Primers for RT-qPCR (5’ to 3’)         |
| actin forward                          |
| actin reverse                          |
| AluY forward                           |
| AluY reverse                           |
| LINE-1 ORF1 forward                    |
| LINE-1 ORF1 reverse                    |
| divergent LINE forward                 |
| divergent LINE reverse                 |
| RNVU1-6 forward                        |
| RNVU1-6 3’ reverse                     |
| 5.8S forward                           |
| 5.8S reverse                           |
| 18S forward                            |
| 18S reverse                            |
| 28S forward                            |
| 28S reverse                            |
| rDNA IGS forward                       |
| rDNA IGS reverse                       |
| 7SL forward                            |
| 7SL reverse                            |
| HIV gRNA forward                       |
| HIV gRNA reverse                       |
| U6 forward                             |
| RNU6-8 3’ reverse                      |

|                                | TTTTGACCTGCTCCGTTTCCGACCT |
|                                | GACCCTCAGATTTAAAGTGCTAGCTC |
|                                | CTGACTGTAACAAATCAATTTGAGATAACTCACTAC |
|                                | GAGTGAGAGAAAGAAAGAAATCTG |
|                                | GGGTTGTATACCAACTTTAGTGACAC |
|                                | GGGAGACAATGTAAAATCAACTTTAACAATAA |
|                                | GACCCATGTGAGACCAGCTGGCCTCGAA |
|                                | AACCCAGACAGGTTGCTTGT |
|                                | GGATAAGGCTCCTGGGAAAA |
|                                | CTTCTCTGTATCTGTCTCAATTTATAGTATAT |
|                                | CGAGATCGGCGCGGCGGAGGTGATGGAATGCGT |
|                                | ATGCTCTACCCTAGCAGCTATA |
|                                | CGCACGCGAGCAGGTTGCAAG |
|                                | GGAATCGAACCAGCGACGCTAG |
|                                | CATCCCCGCACATACTCTGTTG |
|                                | CTCACAACCTTCCGGAATTATAAGTAC |
|                                | TCCCAACCGCGAGGAAGCTTAG |
|                                | CATTGGAGACCAGAACTTGAGTCTG |
|                                | ATCAAGATCATTGCTCCTCTCCTGAG |
|                                | CTCGTTGCTGATCCACATCTG |
|                                | AGATCGAGACCATCCTGCTG |
|                                | GCCATTTCTCTTGCTCAGGCT |
|                                | TCAAAAGGAAAGCCCCATCAGACTA |
|                                | TTGGCCCCCACCCTCTTCTT |
|                                | TCAGAAGTGGGATCTATGGGAGAAC |
|                                | AGATGGTCCCCTCAACACCACG |
|                                | AAGGAGAGATACCCCTGGTCAGGAAG |
|                                | GGTCTGAGCAGAAACAAAACCTATT |
|                                | CTTAGCGGTGGATCAGCGTC |
|                                | AGTGCCTCAGGAAGTGCGAT |
|                                | GCTTAATTGAGCCTCAACACGGGA |
|                                | AGCTATCAATCTGTCAATCTGTC |
|                                | TTCACCAAGCCTTGAGATTGTT |
|                                | TGCTCGAACCCTCGGTTTCT |
|                                | AGCATTGTAAGGCGGTGCGTGG |
|                                | CGTCTCATCTGCTGGCTGAGAA |
|                                | ATCCGGGTGTCGCCACTAAG |
|                                | CACCCCTCTTTAGGCAACCT |
|                                | ACCCGGCCATAAGCAAGAG |
|                                | GTCGCCCTCTTTGCGACAAT |
|                                | ATATACTAAAATGGGAACGATAC |
|                                | CACACTGTGTTCCTTAGTACTAATTAG |