Fig. S1. No changes in SAMHD1 protein expression, SAMHD1 Thr-529 phosphorylation and CDK2 activity in SCT PBMCs. (A) Expression of SAMHD1 and SAMHD1 (P-Thr-529) in SCT PBMC. Cell lysates from PBMC (3 HbAA, 33.35 female and 3 HbAS, 100% female) obtained from SCT and normal controls were resolved on 4-12% Bis-Tris gel and probed with antibodies against SAMHD1 and SAMHD1(P-Thr-529). The β-actin was used as loading control. Results were quantified using Image Quant Software. Data are representative of two independent experiments. (B) CDK2 activity in SCT and normal PBMCs. PBMC were obtained from two SCT (50% female) and two HbAA (100% female) participants and treated with PHA and IL-2. Cells were lysed, and CDK2 was immunoprecipitated using anti-CDK2 antibodies. Kinase assays were performed using histone H1 as a substrate. Lower panel shows quantification from two independent experiments.
**Fig. S2 Expression of HIV-1 restricting factors in SCT PBMCs.**

RNA was extracted from six HbAA (50% female) and three HbAS (66.7% female) PBMCs, reverse transcribed and relative quantification of 42 Restriction Factors was performed using a custom-made TaqMan Low Density Array (TLDA) (Applied Biosystems). GAPDH was used for reference. The means ± SE calculated with t test are shown.
|                        | AA                      | AS                      |
|------------------------|-------------------------|-------------------------|
| Age (years)            | 19 (25-62)              | 11 (20-60)              |
| Female, n (%)          | 19 (47%)                | 11 (82%)                |
| Black Africans or African Americans, n (%) | 19 (47%) | 11 (100%) |