A novel, sensitive dual-indicator cell line for detection and quantification of inducible, replication-competent latent HIV-1 from reservoir cells

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Supplementary Table S1

	age	gender	months from last VL>400	months from last VL>50
#1	63	М	95	41
#2	46	M	>42	>42
#3	52	F	>92	>92
#4	48	М	66	3
#5	48	М	115	20

Clinical characteristics of patients whose blood was used in VOA

Supplementary Figure S1 а b day 8 day 15 1E+06 1E+07 yellow" (log) SSC (log) Sup-GGR log RLU log RLU living cells 1E+06 GFP+ cells 10³ 10⁴ 10⁵ 10⁶ 10⁷ GFP (log) FSC (log) 1E+05 1E+05 7 8 1 2 3 4 5 6 7 8 2 5 6 negative resting CD4 + T cells CTL resting CD4 + T cells CTL yellow" (log) SSC (log) day 26 day 29 living cells 72.7 1E+08 1E+08 GFP+ cells Sup-GGR log RLU 기 1E+07 80 1E+07 FSC (log) GFP (log) resting CD4+ T cells 1E+06 positive 1E+06 SSC (log) yellow" (log) 1E+05 1E+05 7 8 3 5 6 4 5 6 7 8 2 4 1 2 3 resting CD4 + T cells CTL resting CD4 + T cells CTL living cells 62.7 GFP+ cells 104 105 106 10

GFP (log)

FSC (log)

Parameters for analysis of GLuc detection and flow cytometry in VOA assay. All data presented are from patient #4 (a) GFP+ cells were quantified by flow cytometry. We first selected the live cell population (left panel, gated cells) and then compared the GFP signal (gated in right panel) obtained for negative control (Sup-GGR cells, upper panel) to those of VOA samples (Sup-GGR cells cultivated with resting CD4+T cells from seropositive donor, middle and bottom panels). Shown is an example of a negative sample (middle panel) and a positive sample (bottom panel). GFP+ cells are identified on the X-axis. To distinguish positive cells from autofluorescence we used 585/40 emission filter on the Y-axis. (b) Gaussia luciferase was measured over time in the supernatant of Sup-GGR (CTL, in black) or Sup-GGR with resting CD4+T cells of seropositive donors (wells 1-8 for each graph, negative well in grey, positive well in green). A well is considered positive if the RLU (relative luciferase unit) is 1/2 log higher than the control. Shown is an example of the kinetics for one experiment.