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Supplemental information

The impact of lentiviral vector genome size and producer cell genomic to gag-pol mRNA ratios on packaging efficiency and titre

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Supplemental Results

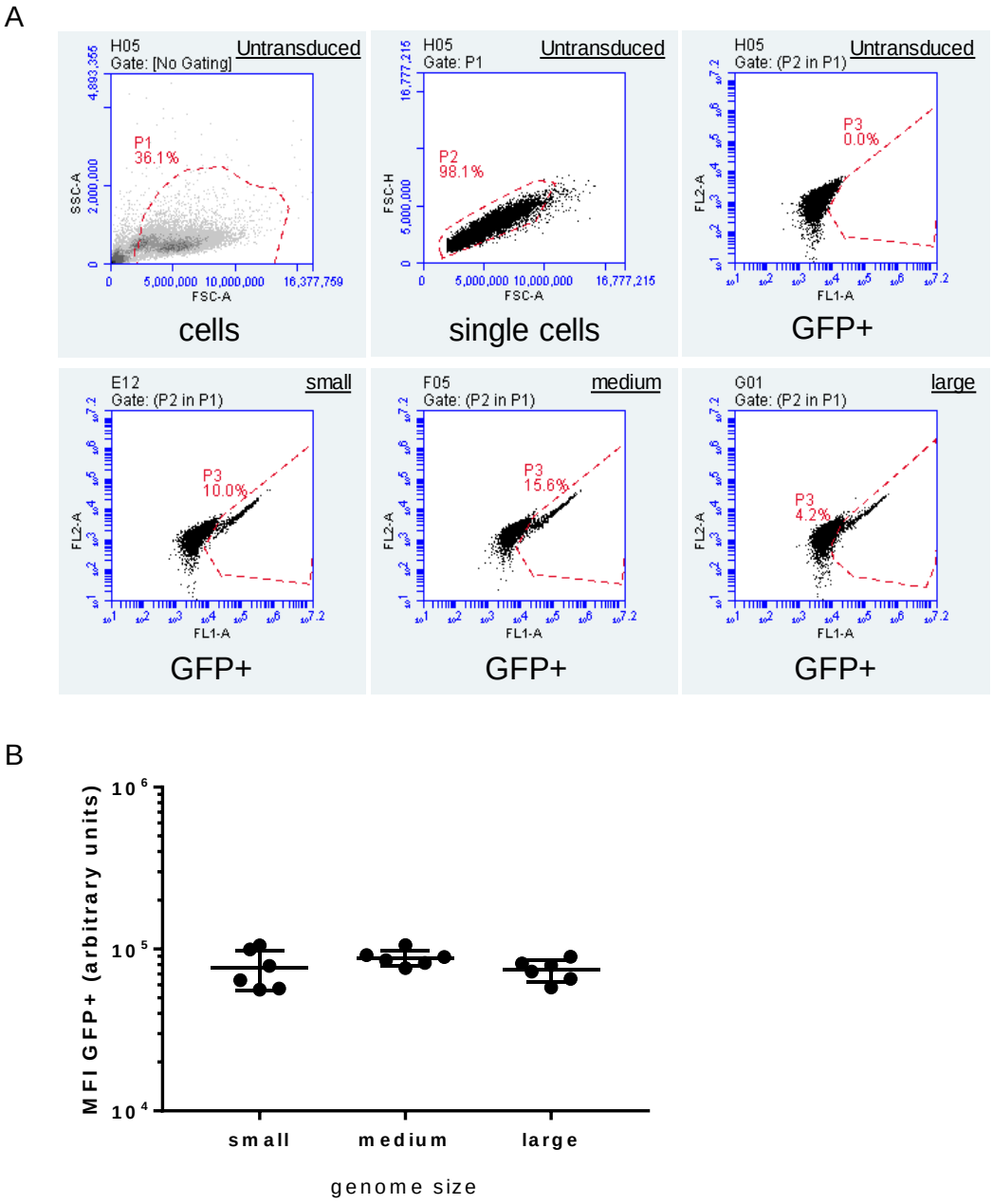

Figure S1 – Flow cytometry analysis of GFP expression in HEK293T cells transduced by small, medium and large lentiviral vectors. Representative flow cytometry plots (see Figure 2D) are shown in panel A. The gating strategy is to select cells from debris based on FSC-A and SSC-A followed by selecting single cells (FSC-H and FSC-A). The GFP expressing single cells are differentiated from strongly autofluorescent cells by plotting FL1-A (488 - 530/30) against FL2-A (488 - 585/40). The negative control (top right) was used to position the GFP+ gate 'P3'. A representative flow plot where between 3 and 30% GFP+ single cells were identified as GFP+ is shown for small, medium and large lentiviral vector transduced cells (bottom row). In panel B the median fluorescence intensity value from the cells within the GFP+ gate was plotted from 6 vector dilutions that gave between 3-30% GFP+ cells (for each size 3 data points are from vector produced using plasmids and 3 from nanoplasmids). Each data point is shown; lines show the mean with error bars representing the standard deviation.