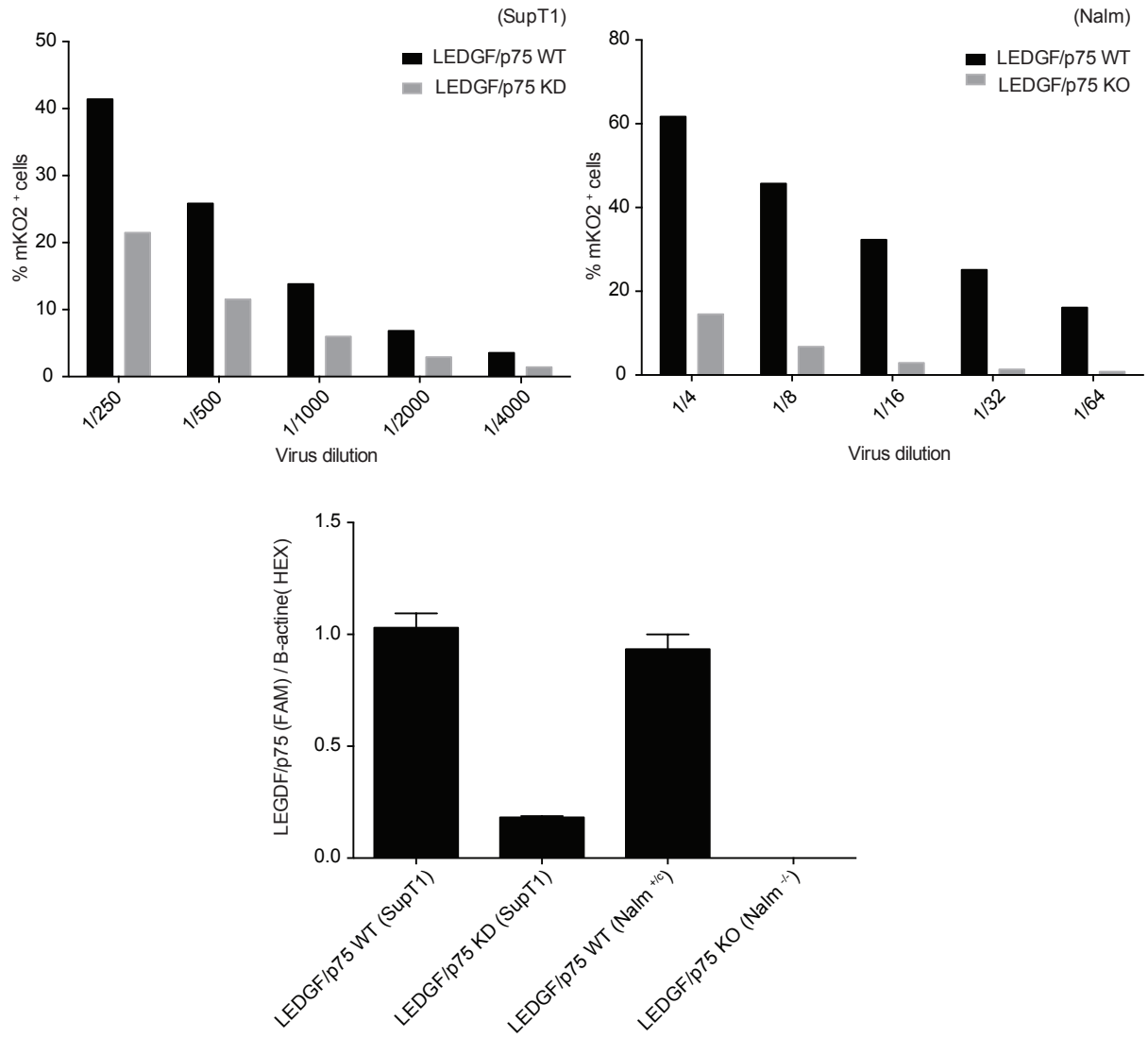


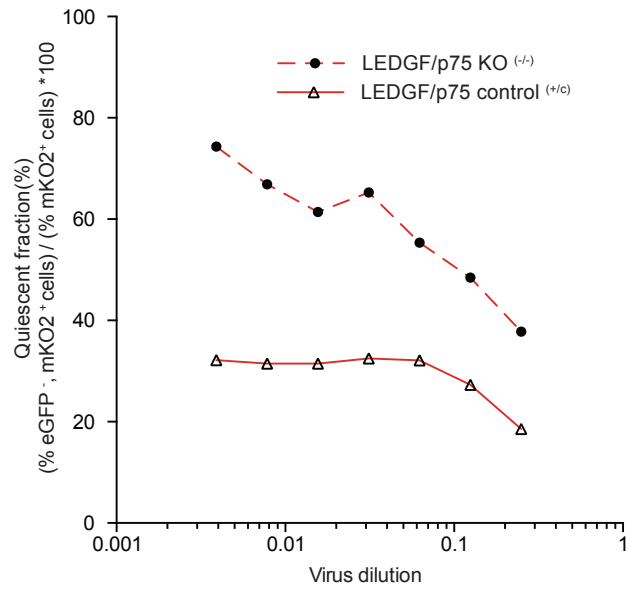
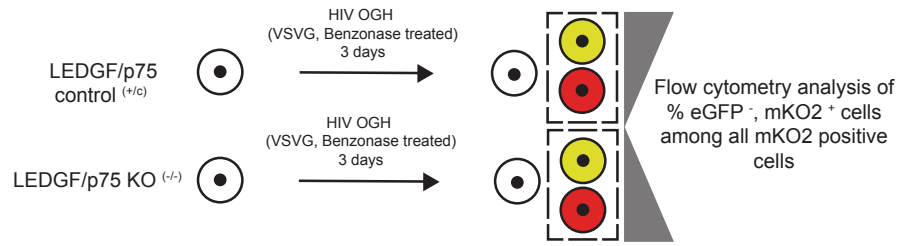
Supplementary Figure 1 LEDGF/p75 depletion increases the silent reservoir.

(a)

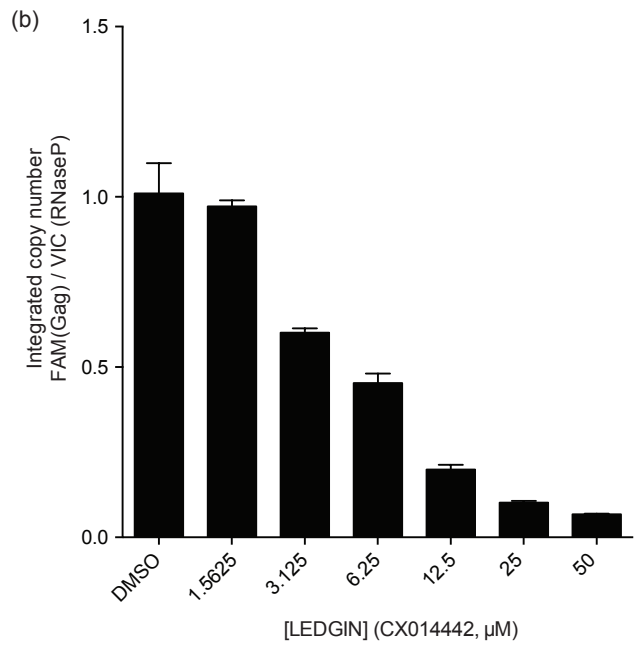
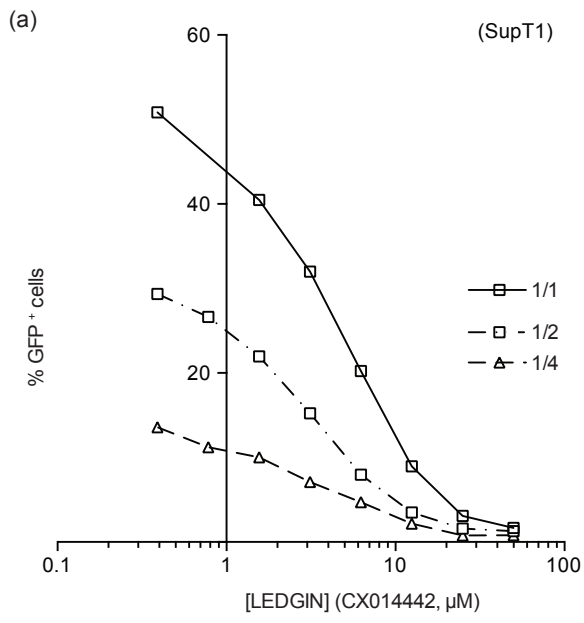


Supplementary Figure 1 LEDGF/p75 depletion increases the silent reservoir.

(b)

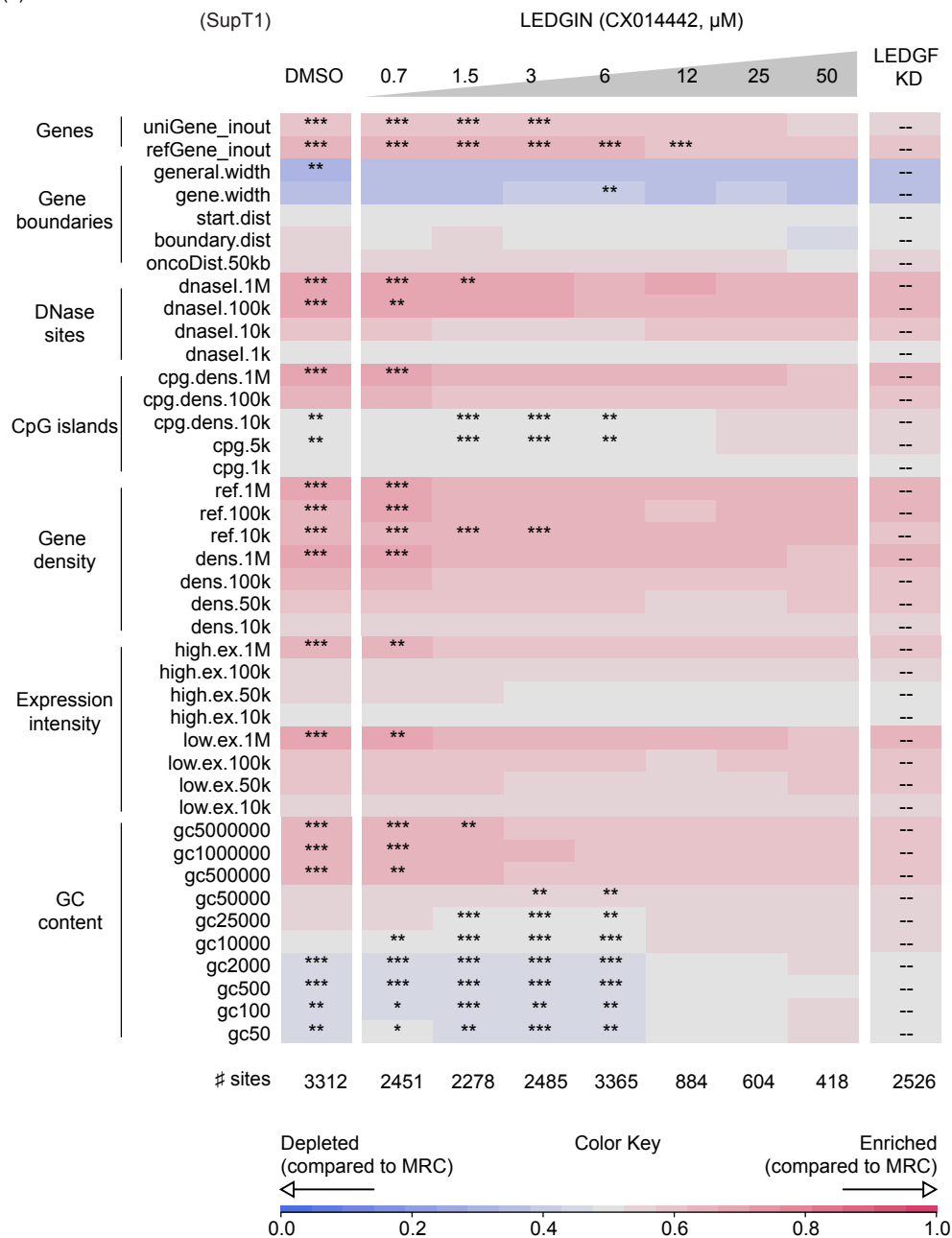


Supplementary Figure 2 LEDGIN mediated inhibition of single round lentiviral transduction.

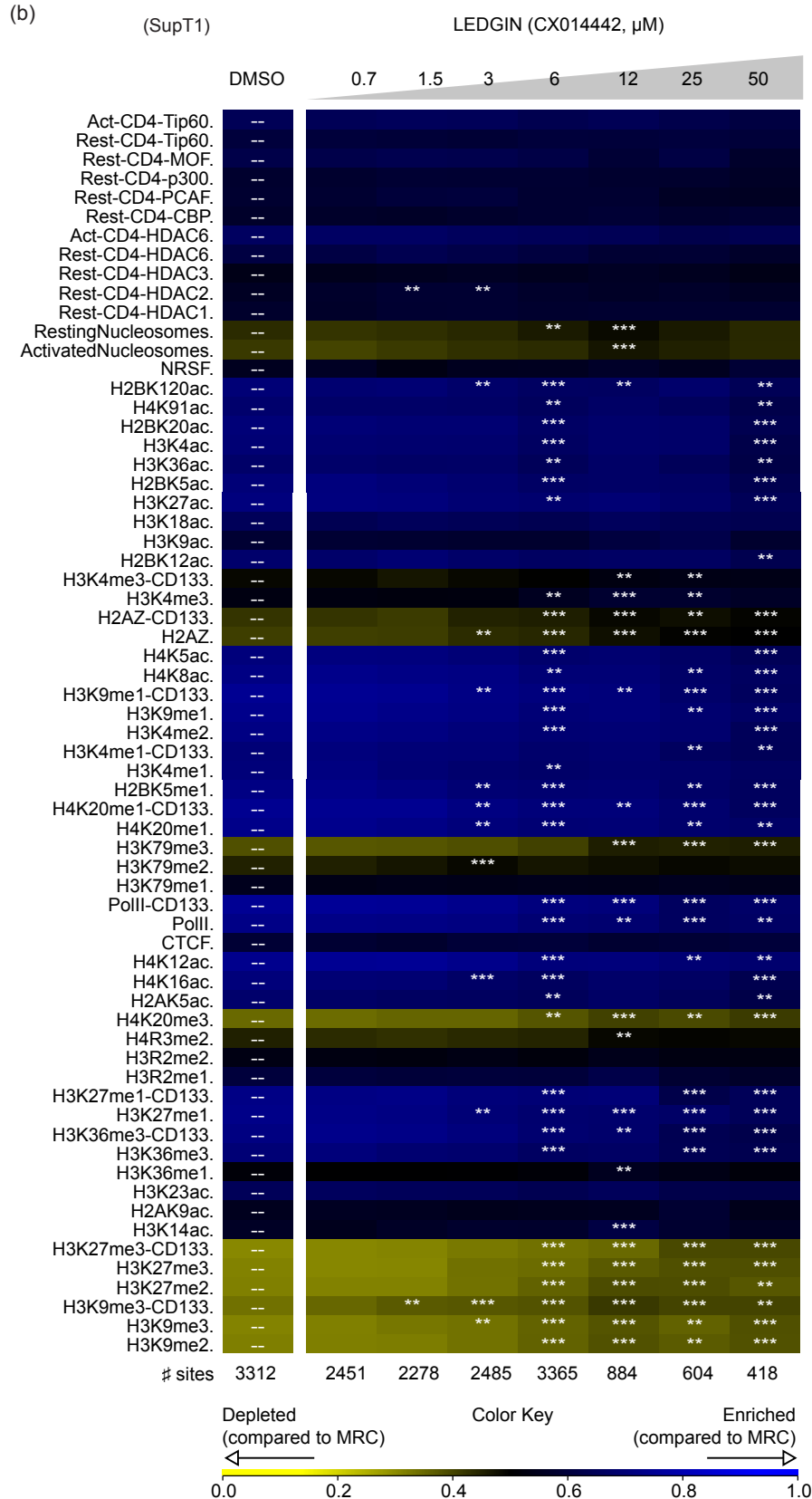


Supplementary figure 3 LEDGIN inhibition of the LEDGF/p75-IN interaction retargets lentiviral integration.

(a)

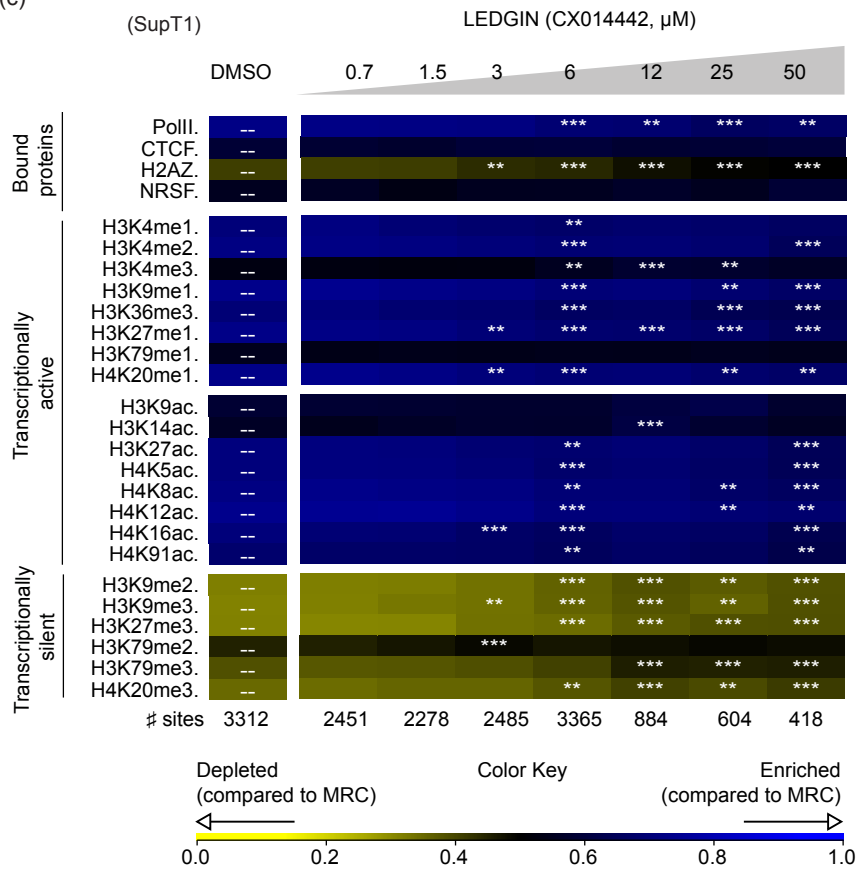


Supplementary Figure 3 LEDGIN inhibition of the LEDGF/p75-IN interaction retargets lentiviral integration.

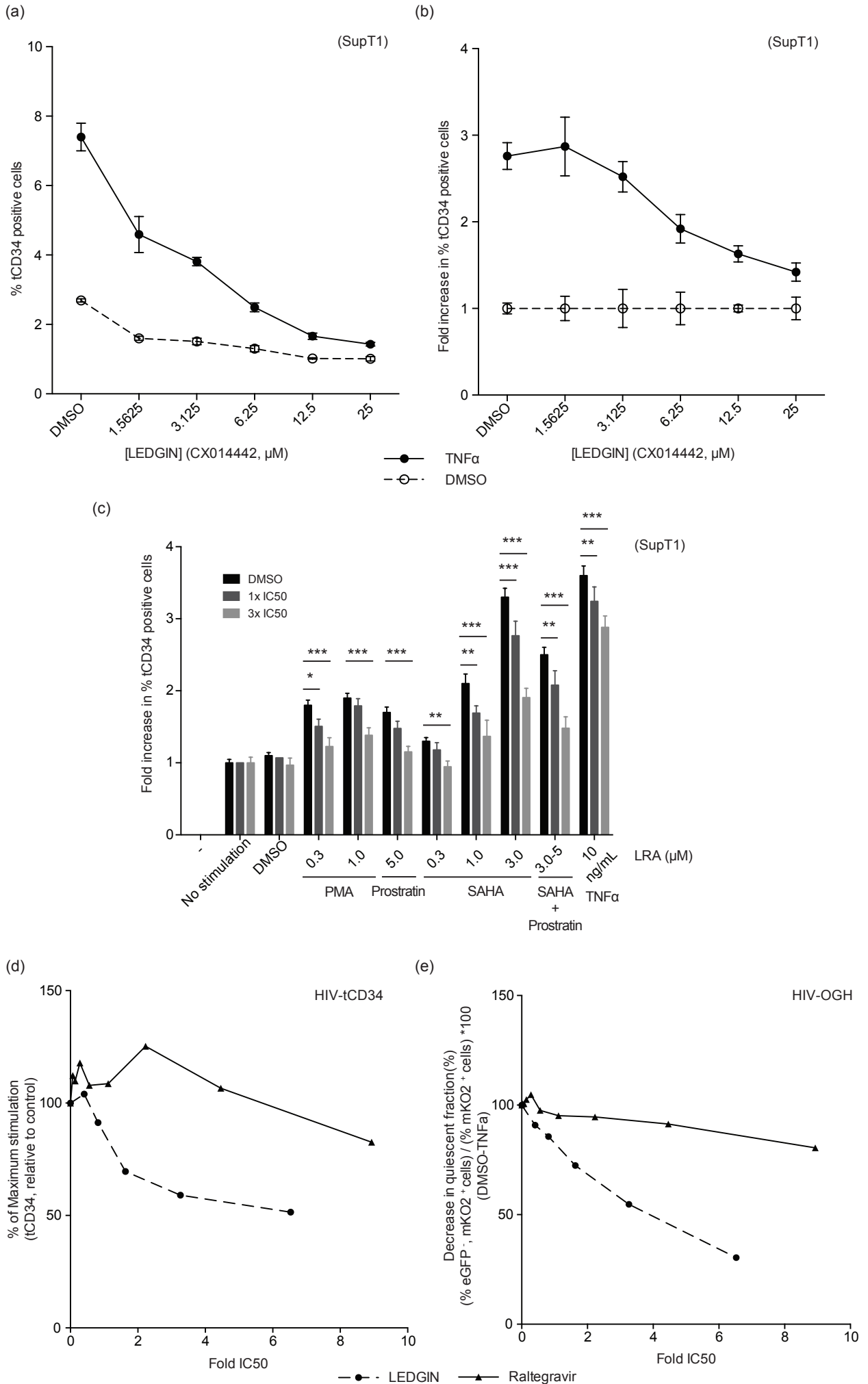


Supplementary Figure 3 LEDGIN inhibition of the LEDGF/p75-IN interaction retargets lentiviral integration.

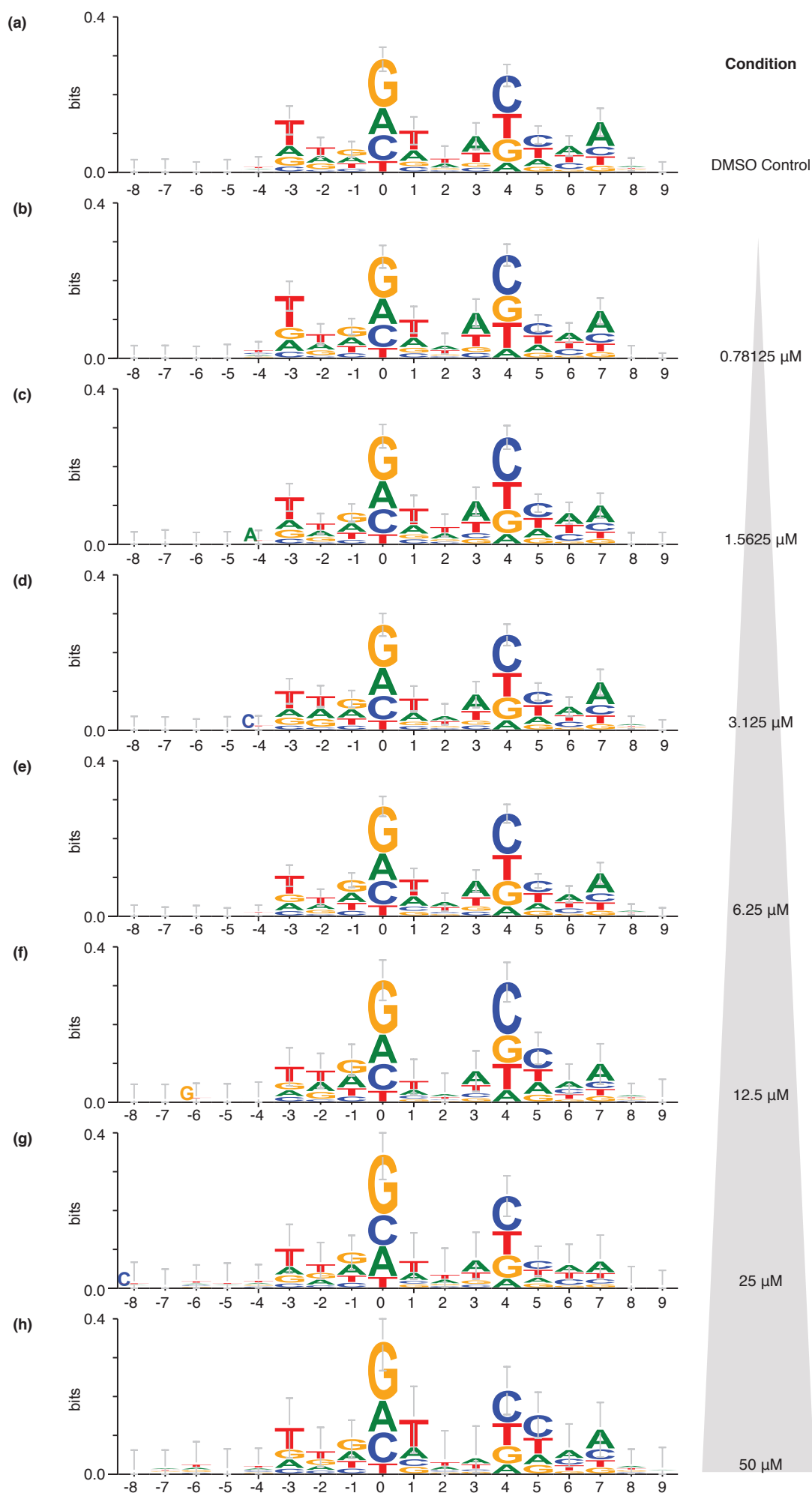
(c)



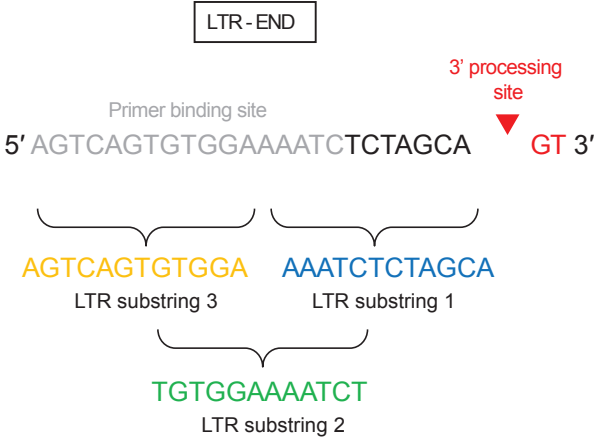
Supplementary Figure 4 LEDGIN treatment reduces reactivation from latency.



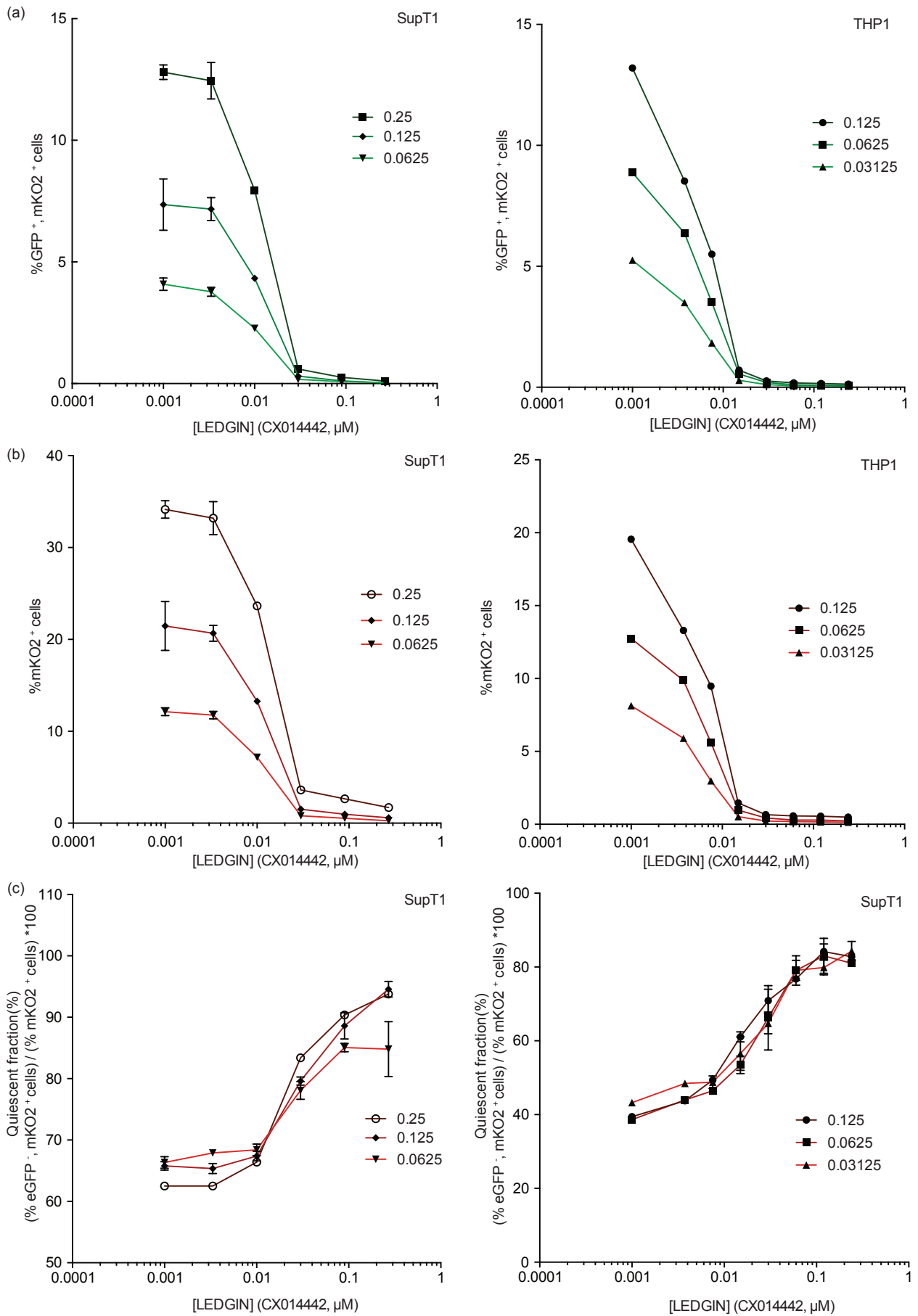
Supplementary Figure 5. Integration Site Sequence Logo remains unaffected by LEDGIN mediated inhibition of the LEDGF/p75-IN interaction.



Supplementary Figure 6. LTR substrings.



Supplementary Figure 7. Addition of LEDGINs during production results in transcriptionally silent provirus after integration.



Supplementary Table 1 LEDGIN inhibition of the LEDGF/p75-IN interaction retargets lentiviral integration.

DataSet	# Sites	% in RefSeq gene
DMSO	1259	70.37
CX05045 1x IC ₅₀	2693	69.18
CX05045 5x IC ₅₀	791	61.95 ***

Supplementary Table 2 Percentage of imperfect LTR – chromosome junctions.

DataSet	% Imperfect LTR-Chromosome junctions
DMSO	1.25
0.78125	1.32
1.5625	1.51
3.125	1.68
6.25	1.37
12.5	0.65
25	1.86
50	2.58

Supplementary Table 3 Integration orientation

DataSet	% Integrations in Refseq genes having an opposite orientation
DMSO	46.21 -
0.78125	47.52 *
1.5625	49.34 *
3.125	49.83 *
6.25	49.43 *
12.5	51.76 **
25	49.71 *
50	56.70 ***