

**Supplemental Figure S5.** Analysis of wild-type integrase (WT-IN) and mutant integrase (MT-IN) virus infection conditions. (A) DNA titer for pLS-SV40-mP using either a WT-IN and MT-IN virus as determined by qPCR with primers against WPRE compared to genomic primers for the intronic region of the *LIPC* gene. Three different volumes (1, 5, and 25  $\mu$ L per well of a 24-well plate) of lentivirus were analyzed at days 2-5 days. (B) Analysis of total viral DNA (WPRE) and unintegrated viral DNA (2-LTR circular DNA) for WT-IN library 4 days after infection and MT-IN library 3 days after infection using qPCR. The relative amount of viral DNA was measured using primers that target an intronic region of the *LIPC* gene.

