### SUPPLEMENTARY TABLE

| Primer sequence | Amplified length |
|-----------------|------------------|
| **Luc**         |                  |
| 5’- GCGCCAACTAACGAAAT-3’ (FW; sense) | 70 bp |
| 5’- CGATAGTAGGTTGGGCTAT-3’ (REV; antisense) | |
| 5’- TGTGGTTCAGCTCTCTAAG-3’ (probe; antisense) | |
| **GFP**         |                  |
| 5’- GGACGGCGACGTAAT-3’ (FW; sense) | 66 bp |
| 5’- CGTAGGTGGCATCGC -3’ (REV; antisense) | |
| 5’- CACAAGTTTCAGCGTGTC-3’ (probe) | |

**Supplementary Table 1.** Custom primers and probes for ddPCR were designed to target selected genes (Luc, GFP).
SUPPLEMENTARY FIGURE

Figure S1. A small amount of tumor cells escapes from the VITVO50 matrix during interaction under flow with MSCs. The classic VITVO® was installed downstream of the VITVO50 in the fluidic circuit and used as a sort of sift to trap cells that escaped during interaction, whether they were MSCs or tumor cells. Looking at the scan of nine representative fields of the VITVO® matrix, we observed the presence of few tumor cells (red) that had detached from VITVO50, together with escaped MSCs (green). Objective 4x.