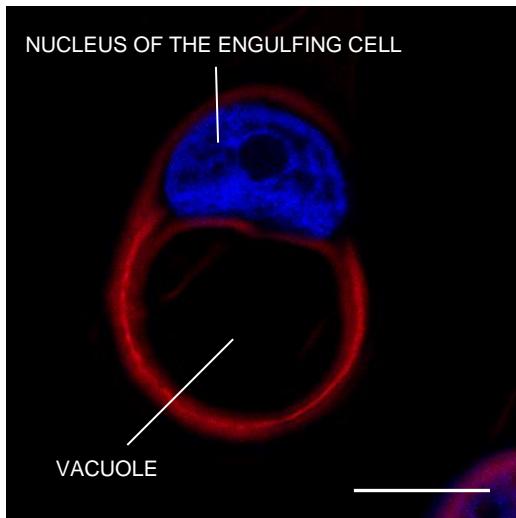
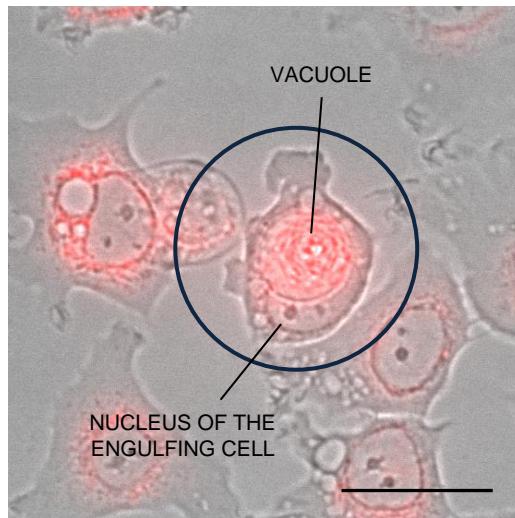


**Figure S1.** Box plot showing the intensity at the  $1454\text{ cm}^{-1}$  peak in the average Raman spectra of *engulfed cell visible* (pink), *big* (blue), and *small* (green) vacuoles. The Mann-Whitney U test shows significant differences in the intensity between engulfed cell visible and small ( $p<0.01$ ) and between big and small ( $p<0.05$ ).

(A)



(B)



**Figure S2.** Representative images of senescent MCF7 vacuole-holding cells stained for lysosomes with Lysotracker. The picture (A) was obtained with a confocal microscope in fluorescent mode. In blue (DAPI staining) is the engulfing cell nucleus. Scale bar: 25  $\mu$ m. The picture (B) was obtained in brightfield mode. The circle indicates the engulfing cell. Scale bar: 50  $\mu$ m.