Supplementary Table 1: Real-time RT-PCR primers

#### csf1r:

sense: 5'-CCTCCTCTGGTCCTGCTG antisense: 5'-CATTCCACACTGCCATTGC

### lgr5

sense: 5'-CAAGCCATGACCTTGGCCCTG antisense: 5'-TTTCCCAGGGAGTGGATTCTATT

### cyclin D1

sense: 5' AGGCTACAGAAGAGTATTTATGGGAAA antisense: 5'-TGCGTTTGAATCAAGGGAGAT

### β2-microglobulin

sense: 5'-TTCACCCCCACTGAGACT antisense: 5'-GTCTTGGGCTCGGCC











Supplementary Figure 5. Reduced CRS4C<sup>+</sup> cells in Csf1r<sup>\*\*</sup> SI. Low power (x100) images of WT and Csf1r<sup>\*-</sup> SI, showing the absence of CRS4C<sup>+</sup> cells in Csf1r<sup>\*-</sup> SI. High power (x400) images of the boxed region are also shown.



Supplementary Figure 6. Persistance of the reduction of PC and of macrophages in adult  $Csf1^{op}/Csf1^{op}$  SI. Immunofluorescence micrography showing images of lysozyme+ PCs in SI crypts of three-month-old (A) WT and (B)  $Csf1^{op}/Csf1^{op}$  mice. (E) Quantitation of number of lysozyme+ PCs/ crypt length (mean ± SD, n=2 for each genotype, 20 crypts/mouse). Immunofluorescence micrography showing images of F4/80+ macrophages in the SI villi of three-month-old (C) WT and (D)  $Csf1^{op}/Csf1^{op}$  mice. (F) Quantitation of number of F4/80+ macrophages/villus (mean ± SD, n=2 for each genotype, 10 crypts/mouse).



*Supplementary Figure 8.* Colocalization of CSF-1R and Iysozyme in PC by immunofluorescence micrography in WT mice. Three-month old SI sections showing (A) Low power merged images of anti-Iysozyme (green), anti-CSF-1R (red) and DAPI (blue) staining of PCs. (B) Higher power image corresponding to the region boxed in A. (C-F) Higher power images corresponding to the region boxed in B, showing co-localization of Iysozyme staining (C, green) with CSF-1R staining (D, red) in the merged image (F). The DAPI staining of nuclei (E) is outlined in E and F. Lysozyme staining in PC occurs in Golgi, Iysosomes and the mature secretory granules.<sup>45</sup> Note: Major staining of the CSF-1R in cultured macrophages occurs in the Golgi, consistent with the large pool of mature intracellular CSF-1R (F.J. Pixley and E.R.S. unpublished observations).

