

## Description of Additional Supplementary Files

**Supplementary Data 1: LGALS3BP organoids\_Differentially expressed genes.** Table 1 includes quality control metrics, detected genes/transcripts their expression values as well as cell number for each cluster as shown in the barplot in Fig 4h. and genes and their respective expression in each of the clusters as shown in the heatmap in Extended data Fig. 4e.

**Supplementary Data 2: LGALS3BP organoids\_Differentially expressed proteins in the proteome.** Table 2 includes detected proteins and their expression values in the whole proteome from organoid cells.

**Supplementary Data 3: LGALS3BP organoids\_Differentially expressed proteins in the secretome.** Table 3 includes detected proteins and their expression values in secretome from the organoid medium.

**Supplementary Data 4: LGALS3BP\_crispcas9 editing lines info.** Table 4 includes information regarding the design of LGALS3BP guides and off-targets for generating the mutant iPSC lines as well as the final sequence of the alleles after the genomic editing.

**Supplementary Data 5: List of primers.** Table 5 includes the sequences of all the primers used for iPSC colonies screening and the generation of the plasmids expressing the mutant variants of LGALS3BP.

**Supplementary Data 6: Source data for graphical representations and statistical descriptions.** Table 6 includes raw data and information regarding the statistical analysis that was applied in each graph of this manuscript.