

Description of Additional Supplementary Files

Supplementary Video Legend

Supplementary Video 1

3D reconstitution of a representative microscopy confocal staining image of TOM20 intensity (red) and labelled-pulsed with EDU intensity (white) acquired using a piezo Z-stage (0.2 μm stack) at D7 of WT PGCLC differentiation.

Supplementary Data Legends

Supplementary Data 1

Raw data for mtDNA copy number, heteroplasmy level of the mt-ND1 variant, number of replicating foci, ATG12 level and mitochondria 3D distribution score per cell.

Supplementary Data 2

List of genes used to calculate the score reflecting the number of mtDNA replication, autophagy, lysosome related genes expressed per cell.