

Description of Additional Supplementary Files

Supplementary Data 1: List of high-confidence mtDNA variants detected in POLG^{D274A} knock-in HEK cells

Supplementary Data 2: List of differentially accessible genes in KI36 compared to CTRL cells

Supplementary Data 3: List of differentially accessible genes in KIA2 compared to CTRL cells

Supplementary Data 4: List of confirmed pathogenic variants reported in MITOMAP

Supplementary Data 5: List of differentially accessible genes after 3 days of galactose vs. glucose treatment in cluster C1

Supplementary Data 6: List of differentially accessible genes after 3 days of galactose vs. glucose treatment in cluster C3