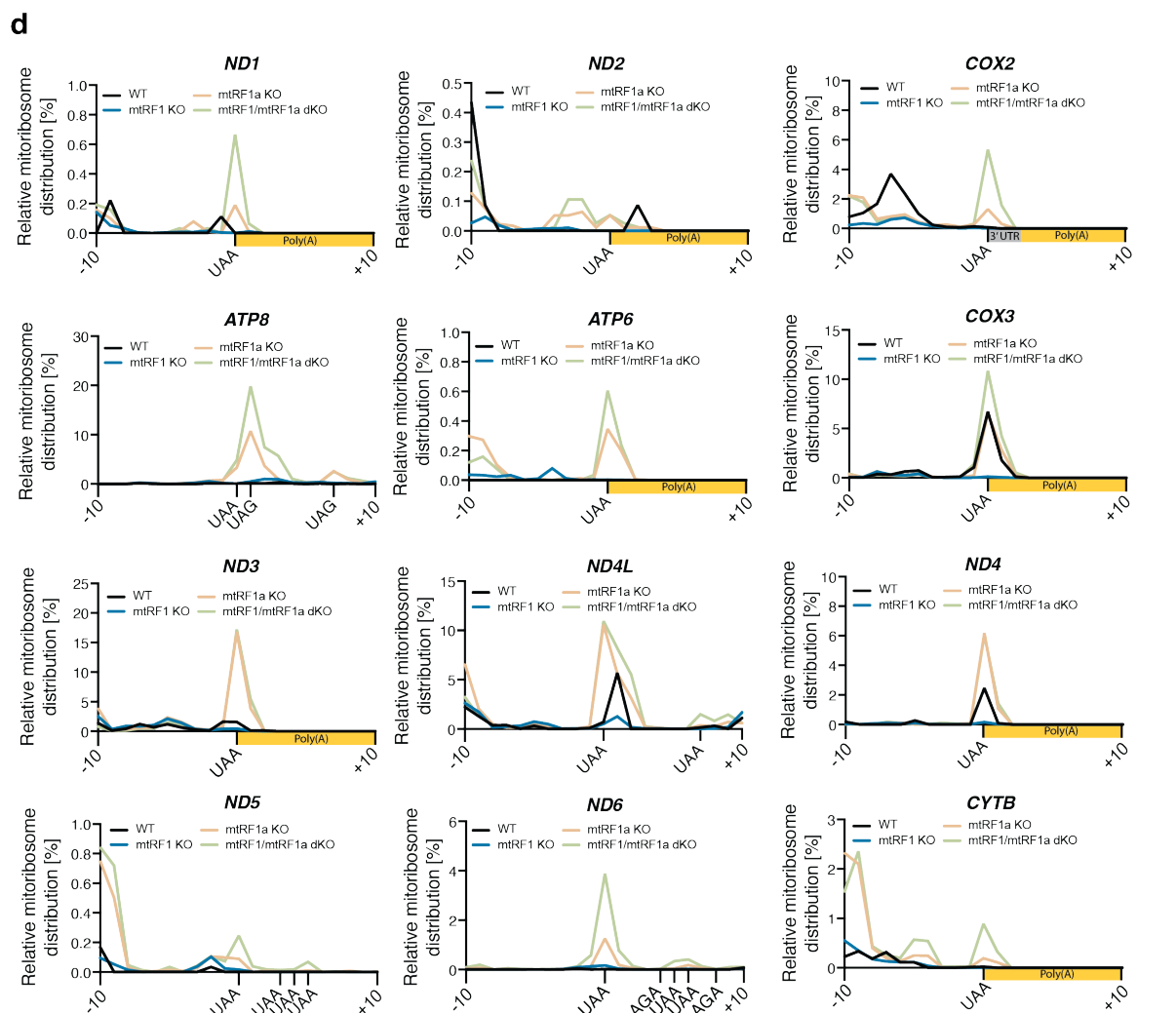
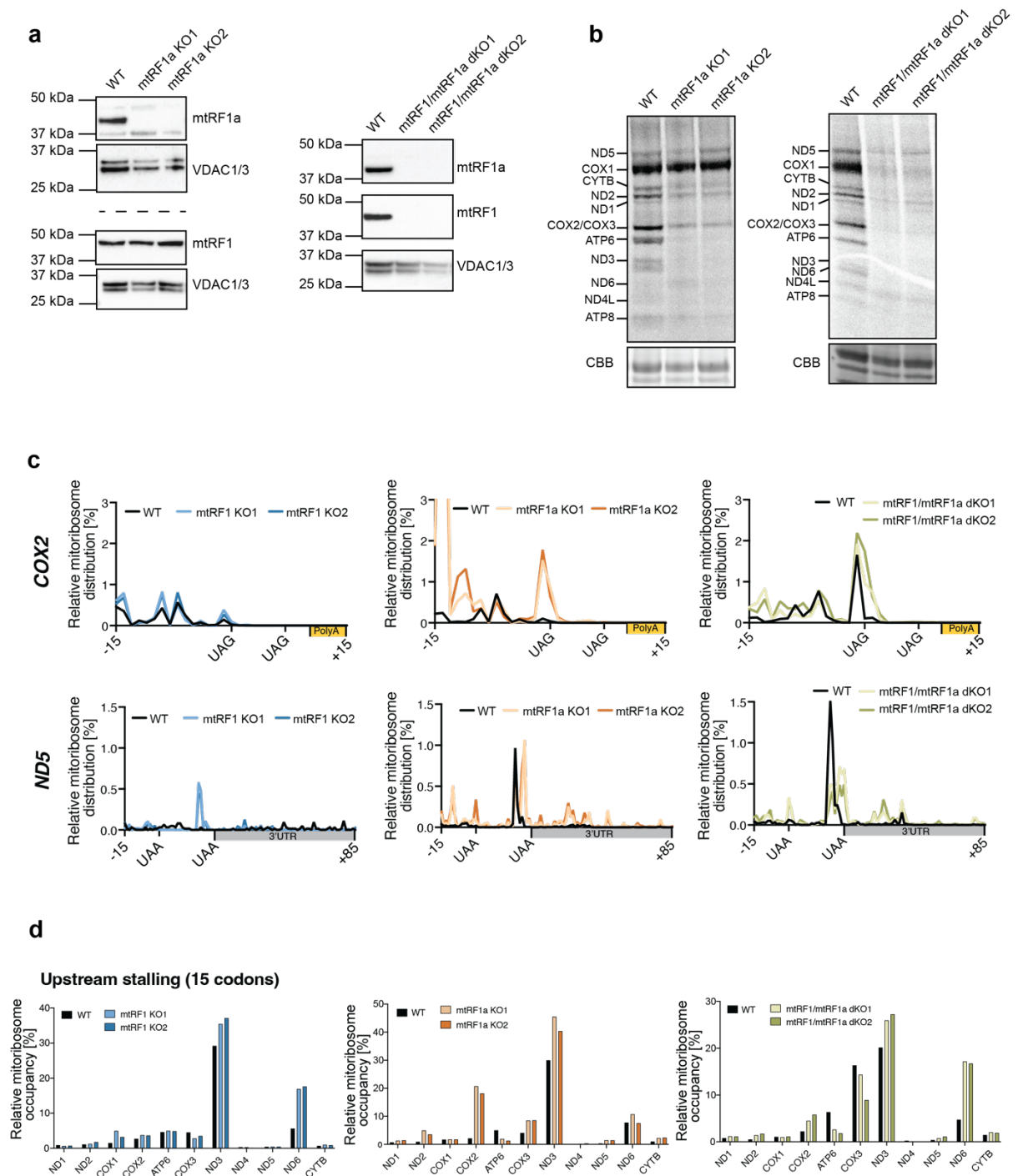


SUPPLEMENTARY INFORMATION

Coupling translation termination to RNA surveillance: roles of release factors in quality control and RNA degradation pathways in mammalian mitochondria

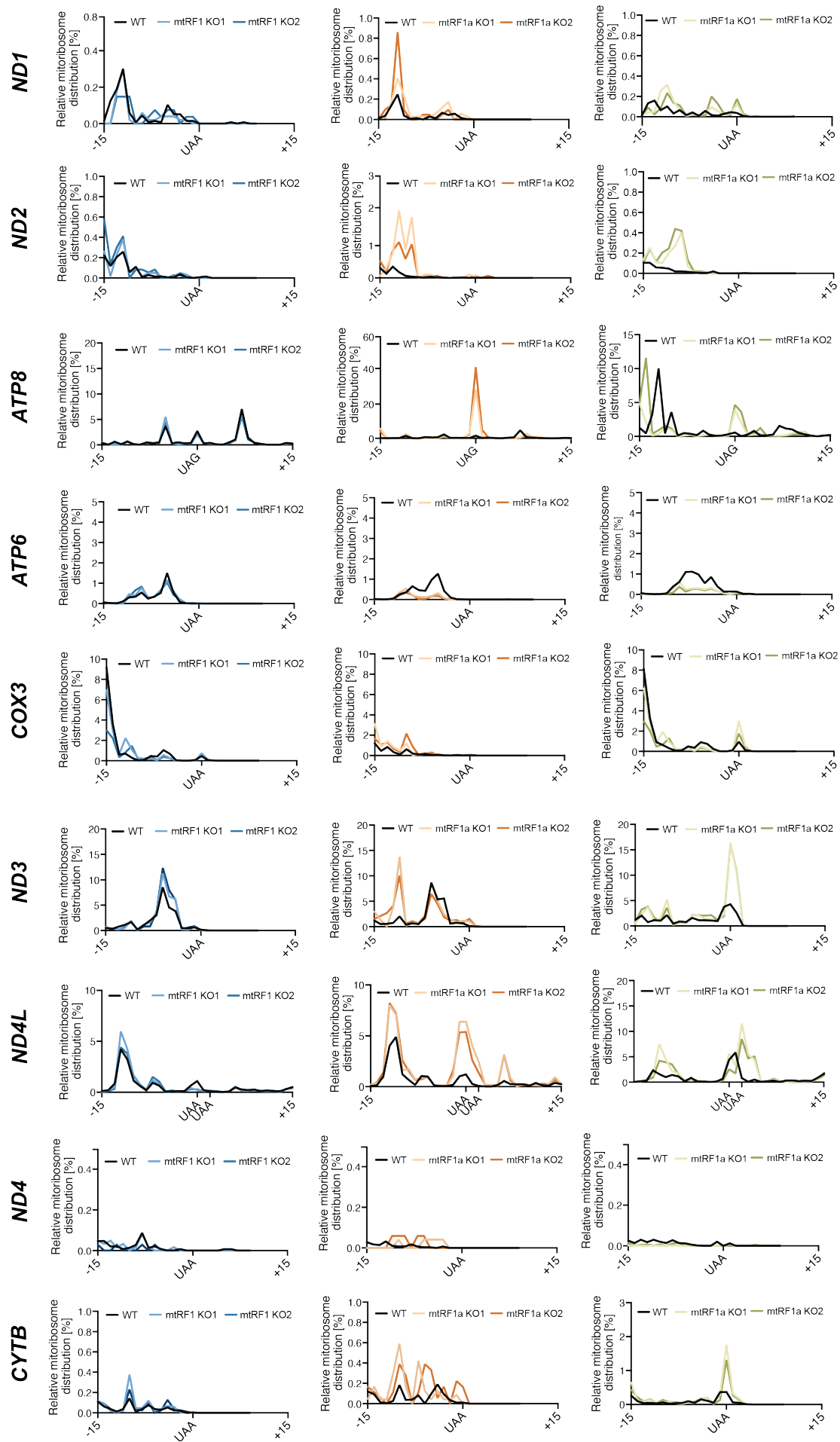


Supplementary Fig. 1 **a** Sequence alignment of human and mouse mtRF1 (**left panel**) and mtRF1a (**right panel**). Protein sequences were retrieved from UniProt and aligned using Clustal Omega Multiple Sequence Alignment (<https://www.ebi.ac.uk/jdispatcher/msa/clustalo>). UniProt IDs: O75570 (human mtRF1); Q8K126 (mouse mtRF1); Q9UGC7 (human mtRF1a); Q8BJU9 (mouse mtRF1a). **b** Western Blot confirming mtRF1 and mtRF1a expression in the N2a cell line compared to HEK293T cells. A total of 40 µg of cell lysates were loaded and VDAC1/3 detection was used as loading control. **c** Growth curve of N2a WT, *mtRF1* KO and *mtRF1a* KO cells cultured in galactose-containing medium. 1×10^4 cells were seeded on day 0. Two biological replicates are plotted for each sample. **d** Mitochondrial occupancy on *ND1*, *ND2*, *COX2*, *ATP8*, *ATP6*, *COX3*, *ND3*, *ND4L*, *ND4*, *ND5*, *ND6* and *CYTB* mt-transcripts in N2a WT, *mtRF1* KO, *mtRF1a* KO, and *mtRF1/mtRF1a* dKO cells. Occupancy is shown relative to the total occupancy on each mt-transcript, both upstream (-10 codons) and downstream (+10 codons) of the first stop codon. 3'UTR and poly(A) tails are highlighted, along with downstream stop codons.

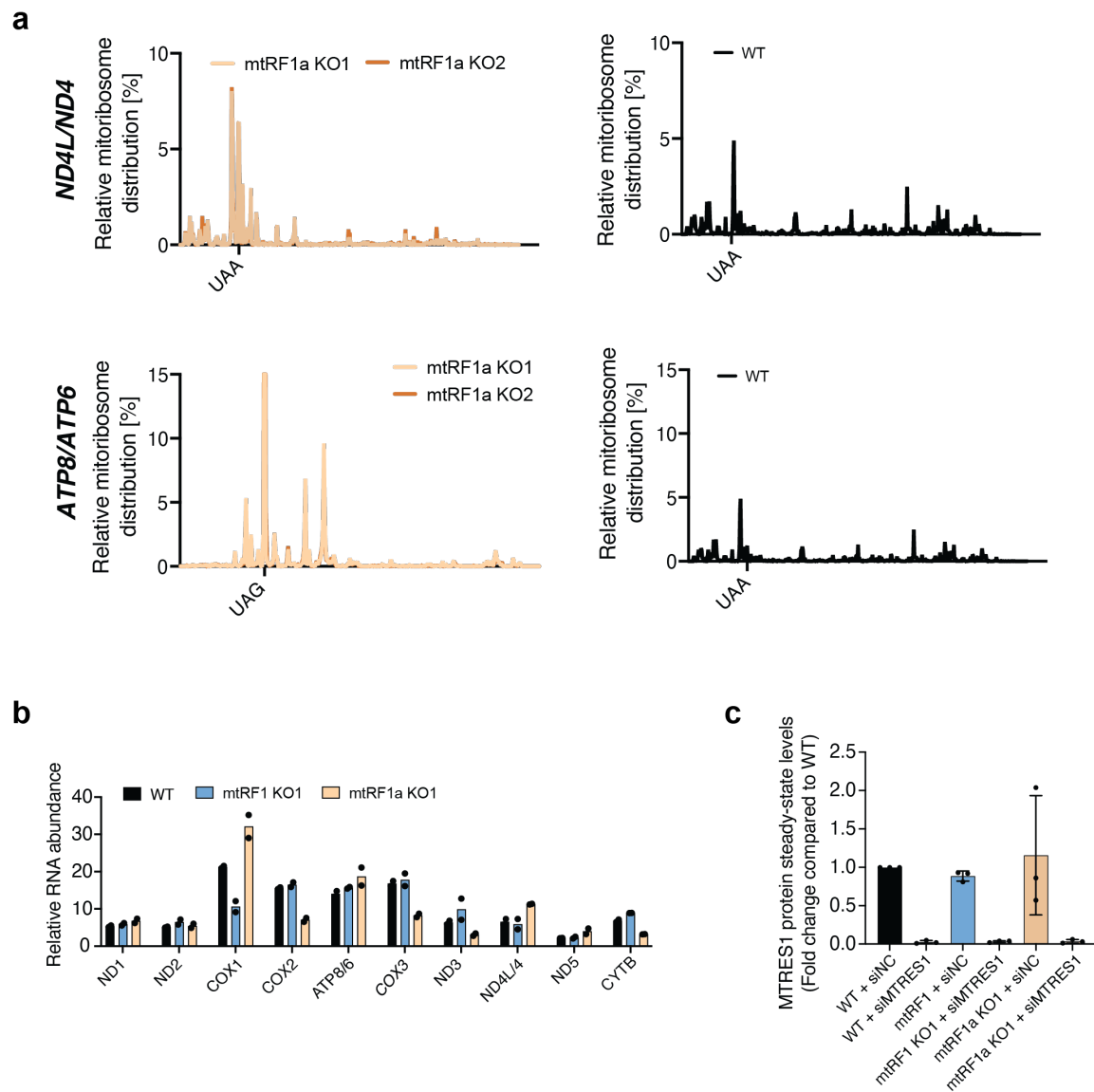


Supplementary Fig. 2 **a** Western Blot confirming the generation of HEK293T *mtRF1a* KO and *mtRF1/mtRF1a* dKO cell lines. Two clones were selected for each cell line (KO1 and KO2). A total of 40 μ g of mitolysates were loaded and *VDAC1/3* detection was used as loading control. **b** *De novo* synthesis of mitochondrial proteins in HEK293T WT, *mtRF1a* KO and *mtRF1a/mtRF1* dKO cells analysed by [35 S]-methionine labelling. Radiolabelled mitochondrial proteins were separated by 12% SDS-PAGE and the dried gel was exposed to a phosphor screen and visualized by autoradiography. Loading was verified by Coomassie Brilliant Blue (CBB) staining. **c** Mitoribosome occupancy on *COX2* upstream (-15 codons) and downstream (+15 codons) of the first stop codon UAG, and on the *ND5* upstream (-15 codons) and downstream (+85 codons) of the first UAA stop codon, shown relative to total mitoribosome occupancy on each respective mt-transcript. Poly(A) tail in *COX2* along with downstream

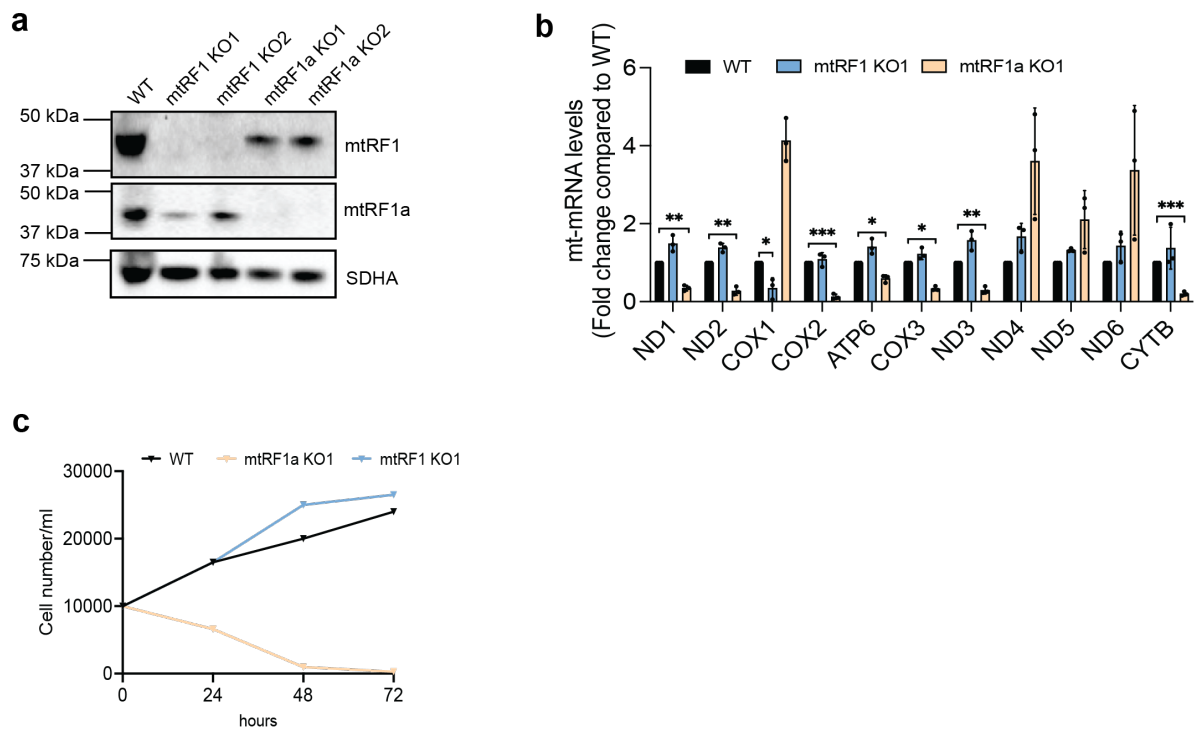
stop codons and 3'UTR in *ND5* is highlighted. **d** Mitoribosome occupancy within the 15 codons upstream of the first stop codon on *ND1*, *ND2*, *COX2*, *ATP8*, *ATP6*, *COX3*, *ND3*, *ND4L*, *ND4*, *ND5*, *ND6* and *CYTB* mt-transcripts in HEK293T WT, *mtRF1* KO, *mtRF1a* KO, and *mtRF1/mtRF1a* dKO cells. Occupancy is shown relative to the total occupancy on each mt-transcript.



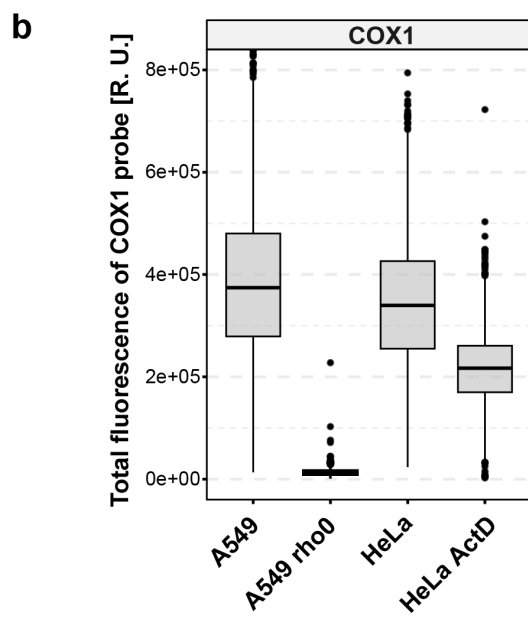
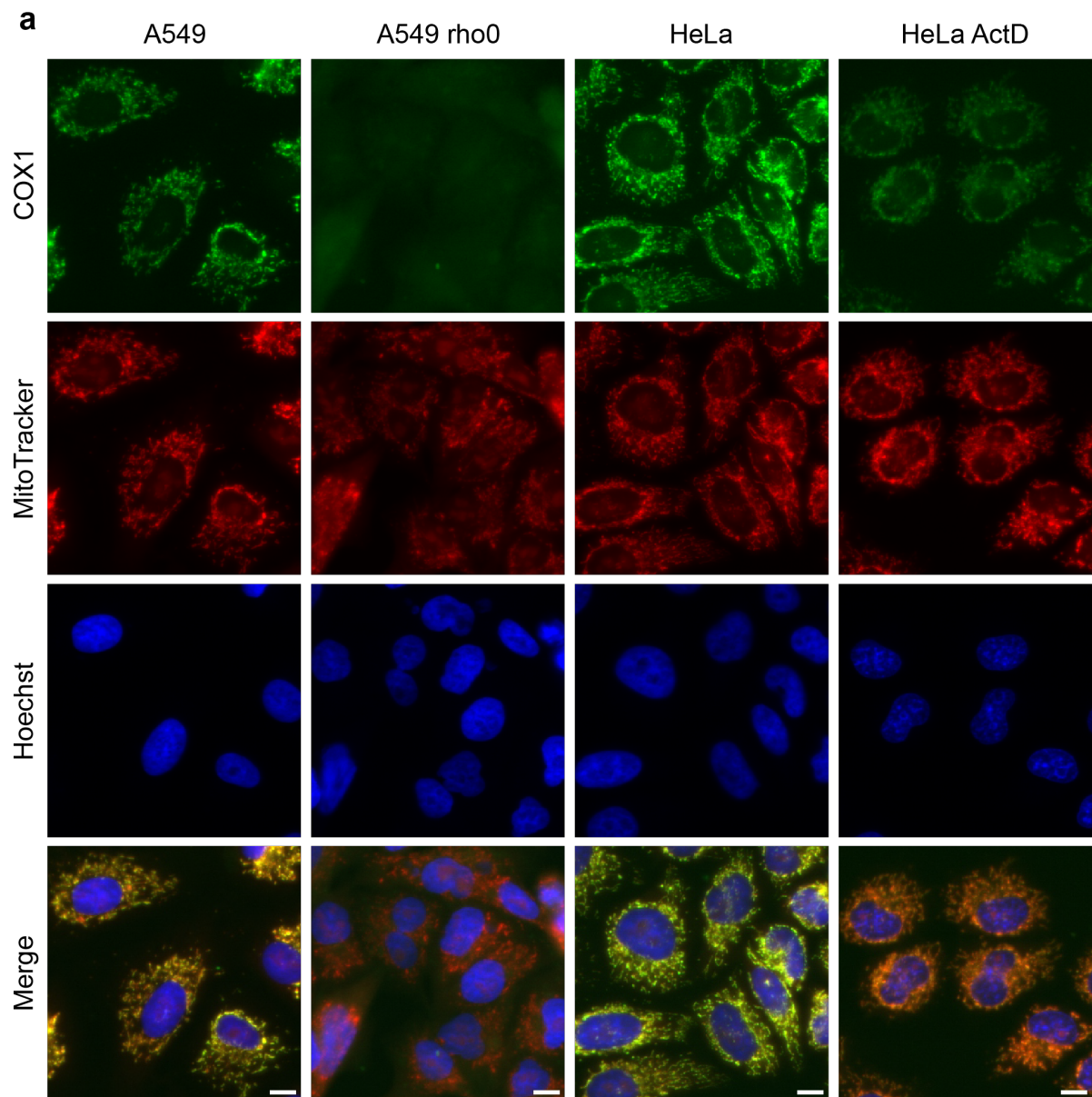
Supplementary Fig. 3 Mitoribosome occupancies upstream (-15 codons) and downstream (+15 codons) of the first stop codon on *ND1*, *ND2*, *ATP8*, *ATP6*, *ND3*, *COX3*, *ND4*, *ND4L* and *CYTB* mt-transcripts in HEK293T WT, *mtRF1* KO, *mtRF1a* KO, and *mtRF1/mtRF1a* dKO cells. Occupancy is shown relative to the total mitoribosome occupancy on each mt-transcript.



Supplementary Fig. 4 **a** Mitoribosome occupancy on the polycistronic *ATP8/6* and *ND4L/ND4* mt-transcripts shown relative to the total mitoribosome occupancy on each mt-transcript in HEK293T WT and *mtRF1a* KO1 and KO2 cells. **b** RNA levels of mt-transcripts in HEK293T WT, *mtRF1* KO1 and *mtRF1a* KO1 cells measured by nanopore sequencing, $n=2$. **c** Quantification of MTRES1 protein steady-state levels after transfection with control siRNA or MTRES1-targeted siRNA in HEK293T WT, *mtRF1* KO1 and *mtRF1a* KO1 cells. Bars represent the mean and SD from $n=3$ independent experiments; individual data points are overlaid.



Supplementary Fig. 6 **a** Western Blot confirming the generation of HeLa *mtRF1* KO and *mtRF1a* KO cell lines. For both cell lines, KO1 was selected for further analysis. A total of 40 μ g of mitolysates was loaded per lane. Loading was assessed by SDHA detection. **b** mRNA levels of *ND1*, *ND2*, *COX1*, *COX2*, *ATP6*, *COX3*, *ND3*, *ND4*, *ND5*, *ND6* and *CYTB* mt-transcripts measured by RT-qPCR in HeLa WT, *mtRF1* KO1 and *mtRF1a* KO1 cells, and normalized to the endogenous gene control β -actin (see **Supplementary Table 5**). Bars represent mean and SD of n=3 independent experiments; individual data points are overlaid. Statistical significance versus WT was assessed with unpaired two-tailed t-test (* P <0.05; ** P <0.01; *** P <0.001). **c** Growth curve of HeLa WT, *mtRF1* KO1 and *mtRF1a* KO1 cells cultured in galactose-containing medium. 1×10^4 cells were seeded on day 0.



Supplementary Fig. 7 a Fluorescence microscopy analyses confirming the specificity of the COX1 probe used in the RNA-FISH procedure. An Atto488-labeled probe was utilized to detect *COX1* mt-transcripts in samples from A549, A549 rho0 (a cell line lacking mitochondrial DNA and RNA), as well as in HeLa cells and HeLa cells subjected to mtDNA transcription inhibition with actinomycin D (HeLa ActD). Representative fluorescence microscopy images are shown. MitoTracker Orange was used to label the mitochondria, and nuclear DNA was stained with Hoechst. The scale bar represents 10 μm . **b** Quantification of *COX1* mRNA levels with FISH. Box plots show cumulative results of n=4 technical replicates; 500 cells were analysed per replicate.

Supplementary Table 1. List of sgRNAs.

Guide RNAs name	Sequence (5' → 3')	Note
SgRNA1 top	CGGGTGAACAGCTCCTCCAG	Generation mtRF1a KO cells
SgRNA1 bottom	CTGGGGGCTGTTCCCCG	
SgRNA2 top	GAGACTGAGCACTTGCTGCA	
SgRNA2 bottom	TGCAGCAAGTGCTCAGTCTC	
SgRNA3 top	CACCGTGTTAAGTAAGAATTGGTCC	Generation of mtRF1 KO cells
SgRNA3 bottom	AAACGGACCAATTCTTACTTAACAC	
SgRNA4 top	CACCGGAACAGAAGGCATGCTGAGT	
SgRNA4 bottom	AAACACTCAGCATGCCTTCTGTTCC	

Supplementary Table 2. List of primers.

Primer	Sequence (5' → 3')	Note
mtRF1a KO PCR primer FWD	CGCGATCTCGGACTAAGGATG	Analysis of mtRF1a KO cells
mtRF1a KO PCR primer REV	CAGTGGAAAAGTCAAACGAAGAGTC	
mtRF1 KO PCR primer FWD	GCTGCAAGTTTTAGACAAAACAGG	Analysis of mtRF1 KO cells
mtRF1 KO PCR primer REV	TTCTTCAATTGCTTGTTCAGTCTCC	

Supplementary Table 3. List of oligonucleotides for anti-COX1 mRNA probe preparation.

Oligonucleotide name	Sequence (5' → 3')
p1_COX1	Hexinyl-AAT AGT CAA CGG TCG GCG AA
p2_COX1	Hexinyl-CTC ATG CGC CGA ATA ATA GG
p3_COX1	Hexinyl-TAA GGA GGC TTA GAG CTG TG
p4_COX1	Hexinyl-GTC GTT ACC TAG AAG GTT GC
p5_COX1	Hexinyl-ACA AAT GCA TGG GCT GTG AC
p6_COX1	Hexinyl-AAA GCC TCC GAT TAT GAT GG
p7_COX1	Hexinyl-GCA CCG ATT ATT AGG GGA AC
p8_COX1	Hexinyl-GAG TCA GAA GCT TAT GTT GT
p9_COX1	Hexinyl-ACT ATA GCA GAT GCG AGC AG
p10_COX1	Hexinyl-GTA GAC TGT TCA ACC TGT TC
p11_COX1	Hexinyl-AGA TGG TTA GGT CTA CGG AG
p12_COX1	Hexinyl-ATA GAG GAG ACA CCT GCT AG
p13_COX1	Hexinyl-TGT GAT GAA ATT GAT GGC CC
p14_COX1	Hexinyl-AAG AGG GGC GTT TGG TAT TG
p15_COX1	Hexinyl-AGG ACT GCT GTG ATT AGG AC
p16_COX1	Hexinyl-GGA CTG GGA GAG ATA GGA GA
p17_COX1	Hexinyl-TAG TAT AGT GAT GCC AGC AG
p18_COX1	Hexinyl-AGAAGG TGG TGT TGA GGT TG
p19_COX1	Hexinyl-GGT GTT GGT ATA GAA TGG GG
p20_COX1	Hexinyl-ATA AAC TTC AGG GTG ACC GA
p21_COX1	Hexinyl-CGA AGC CTG GTA GGA TAA GA
p22_COX1	Hexinyl-CTC AGA CCA TAC CTA TGT AT
p23_COX1	Hexinyl-AAC CCT AGG AAG CCA ATT GA
p24_COX1	Hexinyl-TAT ATG GTG TGC TCA CAC GA
p25_COX1	Hexinyl-CTA CGT CTA TTC CTA CTG TA
p26_COX1	Hexinyl-CGG AGG TGA AAT ATG CTC GT
p27_COX1	Hexinyl-GTG GCG AGT CAG CTA AAT AC
p28_COX1	Hexinyl-CAT TTC ATA TTG CTT CCG TG
p29_COX1	Hexinyl-ATG AAT CCT AGG GCT CAG AG
p30_COX1	Hexinyl-GCC ACC TAC GGT GAA AAG AA
p31_COX1	Hexinyl-TGT CTA GTG ATG AGT TTG CT
p32_COX1	Hexinyl-GTA GTA CGT GTC GTG TAG TA
p33_COX1	Hexinyl-ACA TAG TGG AAG TGG GCT AC
p34_COX1	Hexinyl-GGC AAA TAC AGC TCC TAT TG
p35_COX1	Hexinyl-AGT GAA TGA AGC CTC CTA TG
p36_COX1	Hexinyl-TAG GGT GTA GCC TGA GAA TA
p37_COX1	Hexinyl-AGT TAG ATT TAC GCC GAT GA
p38_COX1	Hexinyl-TAG GCC GAG AAA GTG TTG TG
p39_COX1	Hexinyl-TTT CAT GTG GTG TAT GCA TC
p40_COX1	Hexinyl-TGA GCC TAC AGA TGA TAG GA
p41_COX1	Hexinyl-ACT TTT CGC TTC GAA GCG AA
p42_COX1	Hexinyl-CAT ATA GTC ACT CCA GGT TT

p43_COX1	Hexinyl-TTC GAA TGT GTG GTA GGG TG
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Supplementary Table 4. List of antibodies.

Antibodies	Dilution	Source	Catalog number
mtRF1	1:1000	Sigma-Aldrich	HPA043316
mtRF1a	1:500	Proteintech	16694-1-AP
SDHA	1:2000	Abcam	ab14715
VDAC 1/3	1:1000	Abcam	ab14734
OXPHOS cocktail human	1:1000	Abcam	ab110411
OXPHOS cocktail rodent	1:1000	Abcam	MS604-300
ICT1	1:1000	Proteintech	10403-1-AP
MTRES1	1:500	Sigma Prestige Antibodies	HPA049535
MTRFR	1:500	Proteintech	24646-1-AP
β -actin	1:1000	Sigma-Aldrich	A5441
PNPase	1:1000	Proteintech	14487-1-AP
SUV3	1:1000	Proteintech	12826-1-AP
MTPAP	1:1000	Sigma-Aldrich	HPA058232
Anti-Rabbit IgG, HRP-linked F(ab') ₂ fragment	1:1000	Amersham	NA9340
Anti-Mouse IgG, HRP-linked F(ab') ₂ fragment	1:1000	Amersham	NA9310V

Supplementary Table 5. List of TaqMan probes used for RT-qPCR.

TaqMan probe	Assay ID
<i>ACTB</i>	Hs99999903_m1
<i>ND1</i>	Hs02596873
<i>ND2</i>	Hs02596874
<i>ND3</i>	Hs02596875
<i>ND4</i>	Hs02596876
<i>ND5</i>	Hs02596878
<i>ND6</i>	Hs02596879
<i>CYTB</i>	Hs02596867
<i>COX1</i>	Hs02596864
<i>COX2</i>	Hs02596865
<i>COX3</i>	Hs02596866
<i>ATP6</i>	Hs02596862
<i>ATP8</i>	Hs02596863

Supplementary Table 6. List of genes tested in siRNA screening.

KO cell line	Gene symbol	Entrez Gene ID	Relative viability	Total fluorescence of COX1 [z-score]
mtRF1	ABCB10	23456	0,999469408	0,227623007
mtRF1	ABCB7	22	0,884378991	0,173275861
mtRF1	ACAA1	30	1,381085	0,069611461
mtRF1	ACAA2	10449	1,371998914	0,069460756
mtRF1	ACADVL	37	1,156961557	-0,138573983
mtRF1	ACAT1	38	1,487089331	-0,089779087
mtRF1	ACO2	50	1,541605844	0,007423674
mtRF1	ACTB	60	1,290224145	-0,008377275
mtRF1	AFG3L2	10939	0,966153761	0,846110649
mtRF1	AIFM1	9131	1,308396316	0,487568114
mtRF1	AK1	203	0,448246886	0,012936986
mtRF1	APEX1	328	1,344740658	-0,04876275
mtRF1	APEX2	27301	0,999469408	-0,128682893
mtRF1	ARL2	402	0,990383322	0,121044829
mtRF1	ATAD3A	55210	1,069129397	-0,077209435
mtRF1	ATAD3B	83858	1,362912829	0,818926131
mtRF1	ATIC	471	0,790489441	-0,002353504
mtRF1	ATOX1	475	1,420458037	-0,081954149
mtRF1	ATP5F1B	506	1,138789386	-0,129870671
mtRF1	ATP5PB	515	1,799044934	-0,059661886
mtRF1	ATPAF2	91647	1,229650241	-0,18295502
mtRF1	AUH	549	1,371998914	-0,037383324
mtRF1	BAX	581	1,332625877	0,097122625
mtRF1	BCL2	596	0,375558202	-0,116932131
mtRF1	BCL2L1	598	1,584007577	0,045960037
mtRF1	BCS1L	617	1,169076338	0,193259153
mtRF1	C12orf65	91574	1,444687598	-0,056706458
mtRF1	C1QBP	708	1,471945855	0,074043751
mtRF1	CASP3	836	0,763231184	-0,149585389
mtRF1	CASP8	841	1,356855438	-0,163442792
mtRF1	CASP9	842	1,005526798	-0,09036951
mtRF1	CDK5RAP1	51654	1,405314561	-0,094030497
mtRF1	CHCHD4	131474	0,899522467	0,096788505
mtRF1	CKAP4	10970	1,587036272	0,015750677
mtRF1	CLPX	10845	1,587036272	-0,010312821
mtRF1	CMPK2	129607	1,093358958	0,05393551
mtRF1	COA1	55744	0,957067675	-0,137570045
mtRF1	COMTD1	118881	1,744528421	0,066137287
mtRF1	COQ8A	56997	1,153932862	0,533741626
mtRF1	COQ8B	79934	1,026727664	-0,298813847
mtRF1	COX10	1352	1,547663234	-0,18587107

mtRF1	COX11	1353	0,841977259	0,002353504
mtRF1	COX6A2	1339	0,817747697	-0,159017759
mtRF1	CPS1	1373	1,46891716	-0,08661064
mtRF1	CPT1A	1374	0,742030318	0,785985003
mtRF1	CS	1431	1,947450998	-0,105975676
mtRF1	DBT	1629	1,396228476	0,047123093
mtRF1	DCAF5	8816	1,090330263	0,094626472
mtRF1	DDX28	55794	1,272051974	0,045173227
mtRF1	DDX5	1655	1,114559824	0,006353865
mtRF1	DGUOK	1716	1,423486732	0,58365445
mtRF1	DHODH	1723	0,941924199	-0,094684843
mtRF1	DHX30	22907	1,278109364	0,415789349
mtRF1	DNA2	1763	0,902551162	-0,156543109
mtRF1	DNAJA3	9093	1,64458148	0,204845566
mtRF1	DNAJC11	55735	0,875292906	0,560002422
mtRF1	DNM1L	10059	0,851063344	-0,035231058
mtRF1	DUT	1854	1,008555493	0,109918148
mtRF1	ECHS1	1892	1,789958848	0,047659663
mtRF1	EEFSEC	60678	1,275080669	-0,084573046
mtRF1	EHHADH	1962	1,671839737	-0,013193575
mtRF1	ELAC2	60528	1,381085	-0,231727463
mtRF1	ENDOG	2021	1,702126688	-0,12821741
mtRF1	ERAL1	26284	1,202391984	-0,125393166
mtRF1	ERCC1	2067	0,975239846	0,500017887
mtRF1	ERI2	112479	1,529491063	0,149194317
mtRF1	ETFB	2109	1,417429342	0,00551292
mtRF1	ETHE1	23474	1,520404978	0,047881408
mtRF1	EXO1	9156	1,892934484	0,103493457
mtRF1	EXOG	9941	1,332625877	-0,081636401
mtRF1	FAM210A	125228	0,851063344	-0,13237421
mtRF1	FARS2	10667	0,820776392	-0,133077326
mtRF1	FASTK	10922	1,150904167	0,083283125
mtRF1	FASTKD1	79675	1,29325284	0,227331345
mtRF1	FASTKD2	22868	1,050957226	-0,265227139
mtRF1	FASTKD3	79072	0,944952895	-0,167119054
mtRF1	FASTKD5	60493	1,46891716	3,764174282
mtRF1	FEN1	2237	1,208449375	0,072427753
mtRF1	FIS1	51024	1,484060636	0,232100116
mtRF1	FKBP4	2288	0,966153761	-0,013346673
mtRF1	FTMT	94033	0,636025987	-0,148151816
mtRF1	FXN	2395	0,902551162	-0,07792719
mtRF1	GABPA	2551	0,835919868	-0,009255862
mtRF1	GADD45GIP1	90480	0,775345965	-0,074306427
mtRF1	GATB	5188	1,141818081	0,100498431

mtRF1	GFM1	85476	1,347769353	0,631674419
mtRF1	GFM2	84340	0,805632917	-0,069263088
mtRF1	GLUD1	2746	1,362912829	-0,099255274
mtRF1	GOT2	2806	1,144846776	-0,135847778
mtRF1	GPAM	57678	0,505792094	0,076199279
mtRF1	GPD2	2820	1,008555493	-0,047429341
mtRF1	GRSF1	2926	1,493146721	-0,09044878
mtRF1	GTPBP3	84705	0,766259879	0,274377888
mtRF1	GUF1	60558	1,262965888	-0,072107062
mtRF1	HADHA	3030	1,420458037	0,129452472
mtRF1	HADHB	3032	1,538577149	0,047422752
mtRF1	HIF1A	3091	0,999469408	-0,015269777
mtRF1	HIGD1A	25994	1,138789386	0,07518616
mtRF1	HSD17B10	3028	1,235707631	4,531015998
mtRF1	HSPA9	3313	1,159990252	0,979175727
mtRF1	HSPD1	3329	1,399257171	-0,039109411
mtRF1	IMMP2L	83943	1,066100702	-0,03180472
mtRF1	IMMT	10989	1,459831074	0,053054542
mtRF1	IMP3	55272	1,414400647	-0,205885647
mtRF1	KTN1	3895	1,114559824	-0,11621405
mtRF1	LACTB	114294	1,02975636	-0,019584207
mtRF1	LAMTOR5	10542	0,963125066	-0,203589306
mtRF1	LIG3	3980	1,066100702	0,026594366
mtRF1	LONP1	9361	0,920723333	0,025159619
mtRF1	LRRC59	55379	1,544634539	0,054552091
mtRF1	MAIP1	79568	1,444687598	-9,4481E-05
mtRF1	MALSU1	115416	1,617323223	-0,043012862
mtRF1	MARS2	92935	1,453773684	0,084171287
mtRF1	MAVS	57506	0,835919868	-0,012936986
mtRF1	MCU	90550	1,226621546	-0,094410298
mtRF1	MCUB	55013	0,975239846	-0,161811077
mtRF1	MDH2	4191	1,223592851	0,080531408
mtRF1	METTL17	64745	1,580978881	0,099014563
mtRF1	MFF	56947	0,94798159	-0,111254134
mtRF1	MFN2	9927	0,711743366	0,496070326
mtRF1	MGAT2	4247	0,769288574	0,155266965
mtRF1	MGME1	92667	1,771786677	-0,037107629
mtRF1	MGST3	4259	1,02975636	-0,14841395
mtRF1	MICOS10	440574	0,838948563	-0,183565397
mtRF1	MPV17	4358	1,147875471	0,202539005
mtRF1	MRM1	79922	1,838417971	0,086462512
mtRF1	MRM2	29960	0,875292906	-0,198096947
mtRF1	MRM3	55178	1,04187114	-0,067677071
mtRF1	MRPL12	6182	1,135760691	1,241734476

mtRF1	MRPL18	29074	1,250851107	0,080704474
mtRF1	MRPL22	29093	1,459831074	-0,187134997
mtRF1	MRPL44	65080	1,311425011	0,096701107
mtRF1	MRPL57	78988	1,420458037	0,016465016
mtRF1	MRPL58	3396	0,86620682	0,481491314
mtRF1	MRPL9	65005	1,20542068	0,153365193
mtRF1	MRPS27	23107	1,272051974	-0,055842697
mtRF1	MRPS6	64968	1,577950186	0,048716264
mtRF1	MRPS9	64965	1,111531129	-0,306471773
mtRF1	MRRF	92399	0,757173794	-0,047123093
mtRF1	MRS2	57380	0,769288574	1,076820684
mtRF1	MSS51	118490	1,423486732	0,099707825
mtRF1	MTERF1	7978	0,505792094	-0,041407741
mtRF1	MTERF2	80298	2,553190033	0,385413896
mtRF1	MTERF3	51001	2,223062258	0,140723774
mtRF1	MTERF4	130916	0,336185164	-0,105995807
mtRF1	MTFMT	123263	1,166047642	-0,170671408
mtRF1	MTFP1	51537	1,362912829	0,091484418
mtRF1	MTFR1	9650	1,214506765	0,124427446
mtRF1	MTG2	26164	1,526462368	0,217880801
mtRF1	MTHFD2	10797	1,190277204	0,49366413
mtRF1	MTIF2	4528	1,017641579	-0,018740464
mtRF1	MTIF3	219402	1,017641579	-0,007634083
mtRF1	MTO1	25821	0,923752028	0,053026432
mtRF1	MTPAP	55149	1,46285977	26,36660124
mtRF1	MTRF1	9617	1,238736327	0,008740413
mtRF1	MTRF1L	54516	0,787460746	-0,083202584
mtRF1	MYH10	4628	1,011584188	0,135578938
mtRF1	MYH9	4627	1,057014616	-0,151425994
mtRF1	NDUFAF1	51103	1,402285866	-0,050638756
mtRF1	NDUFS1	4719	1,190277204	-0,070995552
mtRF1	NDUFS3	4722	1,635495395	-0,090234061
mtRF1	NDUFS4	4724	0,654198158	-0,106494929
mtRF1	NDUFV1	4723	0,669341634	-0,103280855
mtRF1	NIPSNAP1	8508	0,605739035	-0,062720185
mtRF1	NOA1	84273	0,96009637	-0,128231754
mtRF1	NRF1	4899	0,487619923	1,412290169
mtRF1	NSUN4	387338	2,047397938	-0,204326559
mtRF1	NT5C3A	51251	1,147875471	0,236684403
mtRF1	NT5M	56953	1,502232807	0,297019768
mtRF1	NT5M	56953	1,238736327	0,122130464
mtRF1	NTHL1	4913	1,241765022	0,06317472
mtRF1	NUBPL	80224	1,63852409	0,163673994
mtRF1	NUDT13	25961	1,47497455	0,065440759

mtRF1	NUDT2	318	1,505261502	0,027689236
mtRF1	NUDT8	254552	0,572423388	0,082721695
mtRF1	OGG1	4968	1,399257171	-0,060296651
mtRF1	OPA1	4976	1,20542068	-0,065004205
mtRF1	OXA1L	5018	1,259937193	0,739487378
mtRF1	PARL	55486	1,362912829	0,193002817
mtRF1	PARS2	25973	1,175133728	-0,097424912
mtRF1	PCK2	5106	0,523964265	-0,048827056
mtRF1	PDE12	201626	0,975239846	0,539674381
mtRF1	PDF	64146	0,987354627	0,021287817
mtRF1	PDIA5	10954	1,584007577	0,025345054
mtRF1	PGAM5	192111	0,121147807	0,492182864
mtRF1	PHB	5245	0,735972928	0,717044144
mtRF1	PHB2	11331	0,651169463	2,991464399
mtRF1	PIF1	80119	1,768757982	0,065593215
mtRF1	PINK1	65018	1,411371952	0,089741837
mtRF1	PNPT1	87178	0,969182456	18,6745389
mtRF1	POLDIP2	26073	1,541605844	-0,128564731
mtRF1	POLG	5428	1,329597182	-0,19173432
mtRF1	POLG2	11232	1,799044934	-0,098964331
mtRF1	POLRMT	5442	0,620882511	1,553943843
mtRF1	PPARGC1A	10891	1,090330263	-0,004532548
mtRF1	PPIB	5479	1,108502434	-0,116163293
mtRF1	PRORP	9692	1,247822412	2,306777993
mtRF1	PSTK	118672	1,187248509	-0,047547527
mtRF1	PTCD1	26024	0,999469408	-0,057375884
mtRF1	PTCD2	79810	1,375027609	0,302413608
mtRF1	PTCD3	55037	1,032785055	0,51426608
mtRF1	PTPMT1	114971	1,147875471	-0,218940775
mtRF1	PTRH1	138428	1,326568487	-0,201971723
mtRF1	PTRH2	51651	1,223592851	0,364214691
mtRF1	PUS1	80324	1,156961557	-0,149529693
mtRF1	QRSL1	55278	1,378056305	0,001591135
mtRF1	RAB5IF	55969	1,20542068	-0,018796188
mtRF1	RBFA	79863	0,923752028	0,071572747
mtRF1	REXO2	25996	1,777844068	0,607780295
mtRF1	RIDA	10247	1,417429342	-0,125160206
mtRF1	RNASEH1	246243	1,944422302	-0,010003476
mtRF1	RNASEL	6041	1,344740658	-0,136139916
mtRF1	ROMO1	140823	1,066100702	0,199492651
mtRF1	RPUSD4	84881	1,169076338	-0,021525213
mtRF1	RRM2B	50484	1,21753546	-0,060912438
mtRF1	SAMM50	25813	0,832891173	0,272954145
mtRF1	SCO1	6341	0,96009637	0,020487926

mtRF1	SDHAF1	644096	1,105473739	-0,220273357
mtRF1	SDHB	6390	1,04187114	-0,08020043
mtRF1	SERAC1	84947	0,94798159	0,118776675
mtRF1	SETD9	133383	1,350798048	-0,131690497
mtRF1	SHC1	6464	0,651169463	-0,221776053
mtRF1	SHMT2	6472	1,002498103	-0,142299167
mtRF1	SIRT3	23410	1,256908498	0,024214323
mtRF1	SLC25A19	60386	1,169076338	0,067928954
mtRF1	SLC25A33	84275	1,447716294	0,00531022
mtRF1	SLC25A5	292	1,862647533	-0,093818384
mtRF1	SLC25A6	293	0,990383322	-0,054376283
mtRF1	SLIRP	81892	0,808661612	-0,296545051
mtRF1	SOD2	6648	1,29931023	0,200380205
mtRF1	SPG7	6687	1,120617215	0,074133928
mtRF1	SPTLC1	10558	1,402285866	0,092720105
mtRF1	SSBP1	6742	1,517376283	-0,143842028
mtRF1	STARD9	57519	1,508290197	-0,001591135
mtRF1	SUPV3L1	6832	1,81418841	35,5663571
mtRF1	SURF1	6834	1,526462368	0,051090342
mtRF1	TACO1	51204	1,384113695	0,764900134
mtRF1	TAMM41	132001	1,193305899	-0,01760104
mtRF1	TATDN3	128387	1,190277204	-0,096082363
mtRF1	TAZ	6901	1,153932862	-0,187467158
mtRF1	TBRG4	9238	0,87226421	-0,110959618
mtRF1	TECR	9524	1,144846776	-0,078886485
mtRF1	TEFM	79736	1,032785055	-0,201617174
mtRF1	TERT	7015	1,153932862	0,271892544
mtRF1	TFAM	7019	1,674868432	-0,128444719
mtRF1	TFB1M	51106	1,190277204	-0,108524142
mtRF1	TFB2M	64216	1,381085	0,000246934
mtRF1	TIMM17A	10440	0,729915537	-0,137290763
mtRF1	TIMM21	29090	1,017641579	0,047547527
mtRF1	TIMM22	29928	1,011584188	-0,082777192
mtRF1	TIMMDC1	51300	1,287195449	-0,00551292
mtRF1	TK2	7084	1,853561447	0,187012507
mtRF1	TMEM126A	84233	0,893465077	-0,086277246
mtRF1	TMEM223	79064	1,329597182	-0,130326557
mtRF1	TOMM40	10452	0,896493772	-0,129939603
mtRF1	TOP1MT	116447	1,241765022	-0,140888359
mtRF1	TOP2B	7155	1,580978881	-0,056915743
mtRF1	TOP3A	7156	1,226621546	0,04574515
mtRF1	TP53	7157	2,008024901	-0,160564689
mtRF1	TRMT10C	54931	1,490118026	12,38694183
mtRF1	TRMT2B	79979	1,199363289	0,041615231

mtRF1	TRMU	55687	1,632466699	0,208813732
mtRF1	TRNT1	51095	1,877791009	-0,000192834
mtRF1	TRUB2	26995	1,375027609	-0,028557952
mtRF1	TSFM	10102	1,432572818	0,11551562
mtRF1	TST	7263	1,402285866	-0,070272296
mtRF1	TTC19	54902	1,281138059	0,259801148
mtRF1	TUFM	7284	1,753614506	11,4829924
mtRF1	TWNK	56652	1,523433673	0,529631571
mtRF1	TYMP	1890	0,86014943	0,03963817
mtRF1	UCP2	7351	0,990383322	-0,093170341
mtRF1	UNG	7374	0,899522467	-0,192169258
mtRF1	UQCC2	84300	1,344740658	-0,118812763
mtRF1	UQCRB	7381	1,253879802	0,773653057
mtRF1	UQCRC1	7384	2,114029232	1,647595026
mtRF1	UQCRFS1	7386	1,229650241	0,211217883
mtRF1	VDAC1	7416	1,308396316	0,085771906
mtRF1	VDAC2	7417	0,669341634	0,218738398
mtRF1	VDAC3	7419	1,587036272	-0,00531022
mtRF1	YME1L1	10730	0,981297237	0,843571188
mtRF1a	ABCB10	23456	0,601984308	1,730153157
mtRF1a	ABCB7	22	0,363807908	2,868035967
mtRF1a	ACAA1	30	1,245845786	-0,127660037
mtRF1a	ACAA2	10449	0,834926062	-1,460449854
mtRF1a	ACADVL	37	0,785196924	-3,465124957
mtRF1a	ACAT1	38	1,256315078	0,173320373
mtRF1a	ACO2	50	0,999817416	-0,215492531
mtRF1a	ACTB	60	0,976261508	2,007887407
mtRF1a	AFG3L2	10939	0,633392185	5,994733938
mtRF1a	AIFM1	9131	1,065250493	-3,825335473
mtRF1a	AK1	203	0,424006339	-1,154046532
mtRF1a	APEX1	328	0,709294554	0,40879663
mtRF1a	APEX2	27301	0,601984308	2,920653375
mtRF1a	ARL2	402	0,293140185	3,410438623
mtRF1a	ATAD3A	55210	0,709294554	-4,51267822
mtRF1a	ATAD3B	83858	0,303609477	3,675081783
mtRF1a	ATIC	471	0,944853631	6,249343465
mtRF1a	ATOX1	475	0,5444032	-6,808435049
mtRF1a	ATP5F1B	506	0,599366985	-5,795945174
mtRF1a	ATP5PB	515	0,68835597	-4,381675039
mtRF1a	ATPAF2	91647	0,266966954	-6,75153734
mtRF1a	AUH	549	0,314078769	-4,888401484
mtRF1a	BAX	581	0,981496155	-2,106288726
mtRF1a	BCL2	596	0,633392185	-3,518040064
mtRF1a	BCL2L1	598	0,58628037	0,891475432

mtRF1a	BCS1L	617	1,099275693	8,112918385
mtRF1a	C12orf65	91574	1,010286708	5,123769118
mtRF1a	C1QBP	708	0,981496155	-0,961184659
mtRF1a	CASP3	836	0,96055757	0,297752057
mtRF1a	CASP8	841	1,036459939	4,797408274
mtRF1a	CASP9	842	0,636009508	-0,929082134
mtRF1a	CDK5RAP1	51654	0,183212616	-3,148283283
mtRF1a	CHCHD4	131474	0,588897693	-1,381584213
mtRF1a	CKAP4	10970	0,75640637	0,934450513
mtRF1a	CLPX	10845	0,588897693	-4,501131804
mtRF1a	CMPK2	129607	0,895124493	0,142400612
mtRF1a	COA1	55744	0,834926062	0,882054899
mtRF1a	COMTD1	118881	0,957940247	-1,040068803
mtRF1a	COQ8A	56997	1,347921386	0,920528939
mtRF1a	COQ8B	79934	0,879420554	-4,435472699
mtRF1a	COX10	1352	0,981496155	-0,95148845
mtRF1a	COX11	1353	0,384746493	1,852863984
mtRF1a	COX6A2	1339	0,413537046	-3,419535422
mtRF1a	CPS1	1373	1,185647355	-3,525210243
mtRF1a	CPT1A	1374	1,039077262	-2,492805416
mtRF1a	CS	1431	0,685738647	-6,170946537
mtRF1a	DBT	1629	0,638626831	0,221192213
mtRF1a	DCAF5	8816	0,952705601	2,497235771
mtRF1a	DDX28	55794	0,876803231	-2,023545117
mtRF1a	DDX5	1655	0,539168554	-0,81296332
mtRF1a	DGUOK	1716	1,060015847	8,203239545
mtRF1a	DHODH	1723	0,685738647	4,126594192
mtRF1a	DHX30	22907	0,902976462	-6,958691912
mtRF1a	DNA2	1763	0,965792216	-2,844371427
mtRF1a	DNAJA3	9093	1,329600124	-3,123633631
mtRF1a	DNAJC11	55735	1,533751324	5,024938174
mtRF1a	DNM1L	10059	0,421389016	-1,671076968
mtRF1a	DUT	1854	0,913445754	-0,017150799
mtRF1a	ECHS1	1892	1,109744985	0,756667967
mtRF1a	EEFSEC	60678	0,717146524	3,819419482
mtRF1a	EHHADH	1962	0,353338616	-0,904681298
mtRF1a	ELAC2	60528	1,415971786	-1,408852743
mtRF1a	ENDOG	2021	0,79043157	-4,937349389
mtRF1a	ERAL1	26284	0,3062268	-2,792752756
mtRF1a	ERCC1	2067	0,601984308	-0,089606097
mtRF1a	ERI2	112479	0,978878831	-2,911762036
mtRF1a	ETFB	2109	1,457848955	2,607839373
mtRF1a	ETHE1	23474	0,531316585	-2,103021601
mtRF1a	EXO1	9156	1,429058401	0,384413701

mtRF1a	EXOG	9941	0,82445677	4,27460822
mtRF1a	FAM210A	125228	0,565341785	-4,339519145
mtRF1a	FARS2	10667	0,779962277	-3,81821501
mtRF1a	FASTK	10922	0,947470955	4,695994382
mtRF1a	FASTKD1	79675	0,719763847	6,325082915
mtRF1a	FASTKD2	22868	0,934384339	-5,220249421
mtRF1a	FASTKD3	79072	1,070485139	8,417772515
mtRF1a	FASTKD5	60493	1,088806401	-1,007592276
mtRF1a	FEN1	2237	0,196299231	-3,299531995
mtRF1a	FIS1	51024	0,761641016	1,655999393
mtRF1a	FKBP4	2288	0,531316585	0,215492531
mtRF1a	FTMT	94033	0,738085108	0,191914622
mtRF1a	FXN	2395	0,779962277	-0,143421043
mtRF1a	GABPA	2551	0,795666216	-4,136058188
mtRF1a	GADD45GIP1	90480	1,052163878	1,989827389
mtRF1a	GATB	5188	0,285288216	0,017150799
mtRF1a	GFM1	85476	0,999817416	9,007427858
mtRF1a	GFM2	84340	0,748554401	-2,94050926
mtRF1a	GLUD1	2746	0,774727631	0,256894093
mtRF1a	GOT2	2806	0,957940247	-0,41512008
mtRF1a	GPAM	57678	0,704059908	4,986275565
mtRF1a	GPD2	2820	1,020756001	-2,643863085
mtRF1a	GRSF1	2926	1,159474124	-5,82025938
mtRF1a	GTPBP3	84705	0,787814247	4,564467319
mtRF1a	GUF1	60558	0,85848197	-0,850620869
mtRF1a	HADHA	3030	0,808752831	1,916612036
mtRF1a	HADHB	3032	1,185647355	0,109810642
mtRF1a	HIF1A	3091	0,62030557	-4,039138576
mtRF1a	HIGD1A	25994	0,902976462	-2,906498469
mtRF1a	HSD17B10	3028	0,829691416	-2,145258362
mtRF1a	HSPA9	3313	0,772110308	-7,04882623
mtRF1a	HSPD1	3329	1,237993816	-8,82199808
mtRF1a	IMMP2L	83943	0,649096124	2,2124771
mtRF1a	IMMT	10989	1,125448924	2,503683032
mtRF1a	IMP3	55272	0,437092954	0,243869956
mtRF1a	KTN1	3895	0,376894523	-4,568901455
mtRF1a	LACTB	114294	1,083571755	0,17853773
mtRF1a	LAMTOR5	10542	0,803518185	-3,648812267
mtRF1a	LIG3	3980	0,410919723	-3,591954625
mtRF1a	LONP1	9361	0,625540216	0,072300714
mtRF1a	LRRC59	55379	1,112362308	3,498024866
mtRF1a	MAIP1	79568	0,656948093	1,172348015
mtRF1a	MALSU1	115416	0,842778031	3,007203919
mtRF1a	MARS2	92935	0,75640637	-1,858513744

mtRF1a	MAVS	57506	0,685738647	1,946888035
mtRF1a	MCU	90550	0,751171724	0,569721316
mtRF1a	MCUB	55013	1,083571755	-1,677509295
mtRF1a	MDH2	4191	0,591515016	-0,659140482
mtRF1a	METTL17	64745	0,808752831	-4,157212479
mtRF1a	MFF	56947	0,557489816	-4,743079146
mtRF1a	MFN2	9927	0,75640637	10,73824464
mtRF1a	MGAT2	4247	0,984113478	0,73625102
mtRF1a	MGME1	92667	1,149004832	1,484279602
mtRF1a	MGST3	4259	0,570576431	-1,862947304
mtRF1a	MICOS10	440574	0,845395354	-5,861341565
mtRF1a	MPV17	4358	1,015521355	4,35054836
mtRF1a	MRM1	79922	1,010286708	0,744405208
mtRF1a	MRM2	29960	1,138535539	-3,179436337
mtRF1a	MRM3	55178	0,918680401	-0,457886111
mtRF1a	MRPL12	6182	0,829691416	2,676019822
mtRF1a	MRPL18	29074	0,895124493	-1,717776925
mtRF1a	MRPL22	29093	0,714529201	-1,063026109
mtRF1a	MRPL44	65080	0,701442585	-1,497110193
mtRF1a	MRPL57	78988	0,968409539	0,70262787
mtRF1a	MRPL58	3396	0,314078769	-6,560667949
mtRF1a	MRPL9	65005	0,738085108	-2,313100834
mtRF1a	MRPS27	23107	0,717146524	-2,663552577
mtRF1a	MRPS6	64968	0,863716616	-4,12436923
mtRF1a	MRPS9	64965	0,680504	-6,186234498
mtRF1a	MRRF	92399	0,615070924	-3,234442261
mtRF1a	MRS2	57380	0,727615816	0,153960991
mtRF1a	MSS51	118490	0,512995323	0,048355274
mtRF1a	MTERF1	7978	0,65433077	0,160159411
mtRF1a	MTERF2	80298	0,913445754	2,794842219
mtRF1a	MTERF3	51001	1,039077262	-5,07001205
mtRF1a	MTERF4	130916	0,465883508	1,904628796
mtRF1a	MTFMT	123263	0,887272524	0,32865583
mtRF1a	MTFP1	51537	1,230141847	-2,651871064
mtRF1a	MTFR1	9650	1,162091447	6,085168884
mtRF1a	MTG2	26164	0,79043157	0,308230311
mtRF1a	MTHFD2	10797	0,604601631	4,932688082
mtRF1a	MTIF2	4528	0,162274031	-0,369874389
mtRF1a	MTIF3	219402	0,965792216	5,827176883
mtRF1a	MTO1	25821	0,690973293	1,873765383
mtRF1a	MTPAP	55149	0,798283539	-3,246254766
mtRF1a	MTRF1	9617	0,900359139	-10,13338136
mtRF1a	MTRF1L	54516	0,630774862	-0,079310478
mtRF1a	MYH10	4628	0,897741816	3,155804297

mtRF1a	MYH9	4627	0,981496155	3,493935589
mtRF1a	NDUFAF1	51103	1,240611139	5,076287171
mtRF1a	NDUFS1	4719	0,468500831	-0,248509038
mtRF1a	NDUFS3	4722	1,073102462	-3,050985506
mtRF1a	NDUFS4	4724	0,696207939	7,55940671
mtRF1a	NDUFV1	4723	0,656948093	2,390083216
mtRF1a	NIPSNAP1	8508	0,730233139	-1,906229457
mtRF1a	NOA1	84273	0,874185908	-3,191262013
mtRF1a	NRF1	4899	0,528699262	5,958364111
mtRF1a	NSUN4	387338	0,905593785	-6,091917626
mtRF1a	NT5C3A	51251	0,526081939	5,516709783
mtRF1a	NT5M	56953	0,709294554	-0,191172793
mtRF1a	NT5M	56953	0,813987478	-1,498766563
mtRF1a	NTHL1	4913	0,659565416	-3,420500688
mtRF1a	NUBPL	80224	1,19873397	-5,93017496
mtRF1a	NUDT13	25961	1,235376493	3,023251767
mtRF1a	NUDT2	318	0,499908708	-3,876685024
mtRF1a	NUDT8	254552	0,832308739	2,110575392
mtRF1a	OGG1	4968	1,151622155	-0,123591616
mtRF1a	OPA1	4976	0,897741816	0,129443577
mtRF1a	OXA1L	5018	0,871568585	0,628248896
mtRF1a	PARL	55486	1,083571755	-0,221192213
mtRF1a	PARS2	25973	1,002434739	2,111136521
mtRF1a	PCK2	5106	0,494674062	-8,393827498
mtRF1a	PDE12	201626	0,942236308	5,215519226
mtRF1a	PDF	64146	0,217237816	-0,027284297
mtRF1a	PDIA5	10954	0,745937077	-0,567367633
mtRF1a	PGAM5	192111	0,191064585	-7,308288036
mtRF1a	PHB	5245	0,651713447	-1,801765412
mtRF1a	PHB2	11331	0,855864647	0,143421043
mtRF1a	PIF1	80119	0,486822093	2,490494006
mtRF1a	PINK1	65018	1,290340278	2,972647195
mtRF1a	PNPT1	87178	0,761641016	5,336423416
mtRF1a	POLDIP2	26073	1,400267847	-0,191914622
mtRF1a	POLG	5428	0,693590616	1,485041231
mtRF1a	POLG2	11232	0,950088278	1,831311384
mtRF1a	POLRMT	5442	0,68835597	1,609537858
mtRF1a	PPARGC1A	10891	0,900359139	-2,173996641
mtRF1a	PPIB	5479	0,986730801	1,944126312
mtRF1a	PRORP	9692	0,680504	-3,137520412
mtRF1a	PSTK	118672	0,251263016	3,623603796
mtRF1a	PTCD1	26024	0,690973293	4,536884404
mtRF1a	PTCD2	79810	0,882037878	5,702660821
mtRF1a	PTCD3	55037	1,067867816	-0,017150799

mtRF1a	PTPMT1	114971	1,060015847	-9,950628027
mtRF1a	PTRH1	138428	0,596749662	-4,328028855
mtRF1a	PTRH2	51651	0,706677231	10,71935284
mtRF1a	PUS1	80324	0,897741816	-4,26386801
mtRF1a	QRSL1	55278	0,895124493	0,089606097
mtRF1a	RAB5IF	55969	0,656948093	5,168374903
mtRF1a	RBFA	79863	0,397833108	-4,109490233
mtRF1a	REXO2	25996	1,046929232	1,652285745
mtRF1a	RIDA	10247	0,683121324	1,608364728
mtRF1a	RNASEH1	246243	1,041694585	0,508951338
mtRF1a	RNASEL	6041	1,036459939	-1,532468141
mtRF1a	ROMO1	140823	0,950088278	7,705032949
mtRF1a	RPUSD4	84881	0,808752831	4,085581257
mtRF1a	RRM2B	50484	0,779962277	1,776909691
mtRF1a	SAMM50	25813	0,693590616	-1,17828894
mtRF1a	SCO1	6341	0,79043157	6,569768173
mtRF1a	SDHAF1	644096	0,803518185	-5,332875473
mtRF1a	SDHB	6390	0,803518185	5,625830597
mtRF1a	SERAC1	84947	0,698825262	2,147557587
mtRF1a	SETD9	133383	1,149004832	5,996445609
mtRF1a	SHC1	6464	0,680504	3,028915697
mtRF1a	SHMT2	6472	0,884655201	-3,478896875
mtRF1a	SIRT3	23410	0,952705601	-0,90333947
mtRF1a	SLC25A19	60386	0,889889847	4,643372555
mtRF1a	SLC25A33	84275	0,759023693	-1,396783545
mtRF1a	SLC25A5	292	1,303426893	-3,019157781
mtRF1a	SLC25A6	293	0,821839447	0,398366498
mtRF1a	SLIRP	81892	0,923915047	-10,44820925
mtRF1a	SOD2	6648	1,101893016	9,761638308
mtRF1a	SPG7	6687	0,908211108	-0,048355274
mtRF1a	SPTLC1	10558	0,923915047	-0,759996672
mtRF1a	SSBP1	6742	1,057398524	-9,810175319
mtRF1a	STARD9	57519	1,591332432	0,846123407
mtRF1a	SUPV3L1	6832	1,47878754	3,571963475
mtRF1a	SURF1	6834	0,973644185	2,212044007
mtRF1a	TACO1	51204	0,759023693	-1,650013484
mtRF1a	TAMM41	132001	0,769492985	-0,972512527
mtRF1a	TATDN3	128387	0,85848197	-3,796825701
mtRF1a	TAZ	6901	0,560107139	-1,162390294
mtRF1a	TBRG4	9238	0,531316585	-8,570257818
mtRF1a	TECR	9524	0,738085108	-6,515357093
mtRF1a	TEFM	79736	1,015521355	2,275872952
mtRF1a	TERT	7015	1,046929232	0,09305485
mtRF1a	TFAM	7019	0,685738647	-3,405571762

mtRF1a	TFB1M	51106	0,452796893	-0,780874819
mtRF1a	TFB2M	64216	0,853247324	-2,313131062
mtRF1a	TIMM17A	10440	0,876803231	1,895424305
mtRF1a	TIMM21	29090	0,793048893	0,017150799
mtRF1a	TIMM22	29928	0,565341785	-2,531801703
mtRF1a	TIMMDC1	51300	0,531316585	-1,325731206
mtRF1a	TK2	7084	0,759023693	-1,567402027
mtRF1a	TMEM126A	84233	0,730233139	-2,17145079
mtRF1a	TMEM223	79064	1,025990647	-4,672467348
mtRF1a	TOMM40	10452	0,989348124	-2,155831326
mtRF1a	TOP1MT	116447	0,452796893	-4,291916863
mtRF1a	TOP2B	7155	1,167326093	4,76065719
mtRF1a	TOP3A	7156	0,680504	1,386906722
mtRF1a	TP53	7157	1,206585939	0,027284297
mtRF1a	TRMT10C	54931	0,921297724	0,780501196
mtRF1a	TRMT2B	79979	0,902976462	2,600345804
mtRF1a	TRMU	55687	0,92653237	0,754591458
mtRF1a	TRNT1	51095	0,929149693	-0,308230311
mtRF1a	TRUB2	26995	0,853247324	-4,717203613
mtRF1a	TSFM	10102	1,185647355	1,67026508
mtRF1a	TST	7263	1,041694585	0,079310478
mtRF1a	TTC19	54902	1,138535539	6,949340754
mtRF1a	TUFM	7284	0,876803231	1,006104782
mtRF1a	TWNK	56652	0,939618985	4,831732964
mtRF1a	TYMP	1890	0,607218954	2,868261851
mtRF1a	UCP2	7351	1,015521355	1,384612391
mtRF1a	UNG	7374	0,607218954	1,778975608
mtRF1a	UQCC2	84300	0,581045723	-4,181549223
mtRF1a	UQCRB	7381	0,143952769	-1,068200437
mtRF1a	UQCRC1	7384	0,5784284	2,414993093
mtRF1a	UQCRFS1	7386	0,96055757	4,155552663
mtRF1a	VDAC1	7416	1,033842616	1,098269717
mtRF1a	VDAC2	7417	0,554872493	-2,170867735
mtRF1a	VDAC3	7419	0,735467785	-1,533135967
mtRF1a	YME1L1	10730	1,09665837	3,807532837

