S2 Table. Oligos used in this work			
Name	**Sequence**	**Tm**	**Use**
Primers used in strain genotyping			
ceMTO1-L	CTGCCAGATTTCTTGGTCGT	64.2ºC	*mtcu-2* gene amplification (750 pb in WT and 1 kb in mutant)
ceMTO1-R	ACGCTGTTGATTTTTGCCTT	63.5ºC	
MTO1-int	TCCCGTAGTGATTACAACAC	57.5ºC	
ecMTU1-L	TCTCTCCTCCACCAAGGCAT	80.4ºC	*mttu-1* gene amplification (1,3 kb in WT and 650 pb in mutant)
ecMTU1-R	GGGACATCACATTGTCCACG	71.6ºC	
F39+351-R	ACAATTTCGTGTATTTCATC	59.3ºC	*mtcu-1* gene amplification (1,3 kb in WT and 650 pb in mutant)
F39-870-F	AACAAATCAAACACAATACAACC	59.2ºC	
ceMSS1-L	GGCACTGGAAAAGAGACAAGA	63.3ºC	*mtcu-1* gene amplification to detect *ok3674* variation
ceMSS1-R	ACGTGCTCAAAAACGAATCC	63.9ºC	
Primers used in *mttu-1*(RNAi) construction			
F-BamHImttu	CGAGTTGGGATCCGAATGTCCGGCGGTGTGG	86.8ºC	*mttu-1*(RNAi) cloning in L4440
R-XholmttuB	ATAAAGTCTCGAGAATATTCATAATCTCTCCTCCACC	71.1ºC	
Primers used in GFP recombinant proteins constructed by homologous recombination			
reB00-F	GAATTCGATATCAAGCTTATCGATACCGTCGACAATGAAAATGCCACGAGTTG	84.2ºC	MTTU-1:GFP recombinant protein construction (underlined region recombines with pGREG600)
reB00-R2	AGTTCTTCTCCTTTACTCATTCTCGAGGTCGATAAAGTTTCTTGAATATTC	76.7ºC	
reF52-F	GAATTCGATATCAAGCTTATCGATACCGTCGACAATGTCGACAATCTTCGCCC	85.5ºC	MTCU-2:GFP recombinant protein construction (underlined region recombines with pGREG600)
reF52-R	AGTTCTTCTCCTTTACTCATTCTCGAGGTCGATTTTCCGATACAAAATTTGC	81ºC	
reGTPBP3-F	GAATTCGATATCAAGCTTATCGATACCGTCGACAATGTGGCGGGGGCTTTGGAC	88.3ºC	MTCU-1:GFP recombinant protein construction (underlined region recombines with pGREG600)
reGTPBP3-R	AGTTCTTCTCCTTTACTCATTCTCGAGGTCGACTTGCCCACACAGAAGTCC	84.3ºC	
Primers used for Northern Blot			
DIG-Gln	[DIG]GCAATCAAACTCTTTTGCACCAAAAACAA	71.3ºC	mt-tRNA^{Gln} detection
DIG-Leu	[DIG]AGTTGACGGATATCTTTTGCGCTTAAAACA	72ºC	mt-tRNA^{Leu} detection
DIG-5S rRNACe	[DIG]CCGTCTCCGATCCAAGTACTAA	64ºC	5s rRNA detection
DIG-cyt-Lys	[DIG]ATGCTCTACCGACTGAGCTAGCCGGGC	77ºC	cyt-tRNA^{Lys} detection
Primers used for mtDNA/nDNA ratio			
MTCE.21-F	GTTTATGCTGCTGTAGCGTG	61.1ºC	*ctb-1* (mitochondrial)
MTCE.21-R	CTGTTAAAGCAAGTGGACGAG	61.4ºC	
F36A4.7-F	TGGAACTCTGGAGTCACACC	62.9ºC	*ama-1* (nuclear)
F36A4.7-R	CATCCTCCTTCATTGAACGG	64.4ºC	
Primers used for mRNA levels quantitation (qRT-PCR)			
act1_F	GAAGGAAATCACCGCTCTTG	63.6ºC	*act-1* (normalyzer)
act1_R	TCCACATCTGTTGGAAGGTG	63.7ºC	
F-cts-1b	ACGGATTGGCTAACCAAGAG	62.9ºC	*cts-1* (citrate sinthase)
R-cts-1b	TACGGCATGTCCATATCCTG	63.3ºC	
SOD3-F	TGGTGGTGGACACATCAATC	64.5ºC	*sod-3* (antioxidant response)
SOD3-R	TGCAAGTTATCCAGGGAACC	63.8ºC	
SOD1-F	CTCATGGTGGACCAAAATCC	64.1ºC	*sod-1* (antioxidant response)
SOD1-R	ACAACCATAGATCGGCCAAC	63.7ºC	
CTL2-F	CGTATCCAAAACCCCAAGTG	64ºC	*ctl-2* (antioxidant response)
CTL2-R	CGAAATGAGCCATCTCATCC	64.5ºC	
GST4-F	TGCTCAATGTGCCTTACGAG	64ºC	*gst-4* (antioxidant response)
GST4-R	CCGAATTGTTCTCCATCGAC	64.4ºC	
GCS1-F	GTCTCATCGCTTGCTTCAAC	62.6ºC	*gcs-1* (antioxidant response)
GCS1-R	ACTTCCGGGAATGTGAATCC	64.9ºC	
Fgt1_F	AGACAAGTGGGCCAGCTACTCA	67.2ºC	*fgt-1* (glycolysis)
Fgt1_R	GGTCCGGTGGCAAAGGA	67.4ºC	
Glna1_F	AGCCAAGTGGACGGCTTTT	65.9ºC	*glna-1* (glutaminase)
Glna1_R	TGCGCCAGCATTGATTAGC	67.3ºC	
Acs17_F	GGAGACTATCACTGGAGAAGCTATG	63.2ºC	*acs-17* (fatty acid oxidation)
Acs17_R	GAACTGCTTCGTCTCCAAGAGTAG	64.4ºC	
Ldh1_F	GAGAGAAGACTGACAACGAACACTG	65.3ºC	*ldh-1* (glycolysis)
Ldh1_R	GAACGACTGGAAGAGAAAGGTAGAC	64.3ºC	
Ucp4_F_a	CGAACTTAAAGATAATTGGCTAACTCA	63.3ºC	*ucp-4* (succinate transport)
Ucp4_R_a	CGACATCTGATGGAAGTGATACAA	64.9ºC	
Acdh12_F	CCGATGTTTTCACTGTGTTTGC	66.4ºC	*acdh-12* (fatty acid oxidation)
Acdh12_R	CAAACGCTCTTTCGACAATGAAT	66ºC	
Pfk1.1_F	GCTCGACTTTATCCGTCAGC	63.8ºC	*pfk-1.1* (glycolysis)
Pfk1.1_R	CAGCGCTGTTCATACCTTGA	64ºC	
Clpp1_F	GTCATTCGTGCCGAAGAAAT	63.9ºC	*clpp-1* (UPR^{mt})
Clpp1_R	TTGATCCGTTGTGAGTCTCG	64ºC	
Icl1_F	ACTGCCTTGTCAGGATCCAC	64.2ºC	*icl-1* (glyoxilate)
Icl1_R	GAATTCGGTGTTGAGGTCGT	63.9ºC	
F48E8.3_F	CTTTTGGCAGACCTGCTTTC	63.8ºC	F48E8.3 (malate dismutation)
F48E8.3_R	GCAGACACTGGGAACACCTT	64.2ºC	
UBL5-F	CACAAACTGGAACACGATGG	64.1ºC	*ubl-5* (UPR^{mt})
UBL5-R	CCCTCGTGAATCTCGTAATCC	64.5ºC	