10. APPENDIX

10.1. List of figures

10.2. List of tables

10.3. Abbreviations

ABR	auditory brainstem responses
AdOA	autosomal dominant optic atrophy
AIF	apoptosis inducing factor
ANT	adenine nucleotide translocator
AT	annealing temperature
ATP	adenosinetriphosphate
bp	base pairs
BSA	bovine serum albumin
CC domain	coiled-coil domain
cDNA	complementary DNA
CMT	Charcot-Marie-Tooth disease
COX	cytochrome c oxidase
CPSF	cleavage/polyadenylation specificity factor
CstF	cleavage stimulation factor
DAB	3,3’ diaminobenzidine

DEPC	diethylpyrocarbonate
DMEM	Dulbecco's Modified Eagle Medium
DNA	deoxyribonucleic acid
Dnm1	Dynamin 1
dNTP	deoxyribonucleotide triphosphate
dpc	days post-coitum
DPOAE	distortion product otoacoustic emissions
DRP-1/Drp1	Dynamin-related protein 1
dsDNA	double-stranded DNA
ECL	enchanced chemiluminescence
EDTA	ethylene-diaminetetraacetic acid
EGTA	ethylene glycol tetraacetic acid
EM	electron microscopy
ER	endoplasmatic reticulum
ERG	electroretinogram
ES cells	embryonic stem cells
EST	expressed short tags
ET	elongation time
et al.	et altera (and others)
FACS	fluorescence activated cell sorting
FCS	fetal calf serum
Fzo	*fuzzy onion*
G418	geneticin
GED	GTPase effector domain
GTP	guanosinesinetriphosphate
HEPES	4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid
hOPA1	human *OPA1*
HRP	horsereddish peroxidase
IMM	inner mitochondrial membrane
IMS	intermembrane space
JC-1	5,5',6,6'-tetrachloro-1,1',3,3' tetraethylbenzimidazolocarbocyanine iodide
kb	kilo base pairs
LB	Luria broth
LHON	Leber's Hereditary Optic Neuropathy

LIF	leukaemia inhibitory factor
MEFs	mouse embryonic fibroblasts
Mfn	mitofusin
MIS	mitochondrial import sequence
MOM	mitochondrial outer membrane
mOPA	mouse OPA1
MOPS	3-(N-morpholino)propanesulfonic acid
MPP	mitochondrial processing peptidase
mRNA	messenger RNA
mtDNA	mitochondrial DNA
NADH	nicotinamide adenine dinucleotide (reduced form)
NBT	4-nitrobluetetrazoliumchlorid
neoR	*neomycin* resistance cassette
OPA1	optic atrophy1
ORF	open reading frame
PBS	phosphate buffered saline
PCR	polymerase chain reaction
PFA	paraformaldehyde
PI	propidium iodide
PTP	permeability transition pore
RGC	retinal ganglion cells
RNA	ribonucleic acid
RNase	ribonuclease
ROS	reactive oxygen species
rpm	rotations per minute
RT	reverse transcriptase
SDH	succinate dehydrogenase
SDS	sodium dodecyl sulphate
ssDNA	single-stranded DNA
SSC	saline sodium citrate
SU	subunit
TAE	Tris/Acetate/EDTA
TBS	Tris-Buffered Saline
TdT	Terminal deoxynucleotidyl transferase

TNF	tumor necrosis factor
Tris	Tris-(hydroxymethyl) aminoethane
TUNEL	TdT-mediated dUTP nick end labelling
U	unit (enzymatic activity)
UTR	untranslated region
UV	ultraviolet (light)
VDAC	voltage-dependent anion-selective channels
VEP	visually evoked potentials
$\Delta\Psi_m$	mitochondrial membrane potential