



<b>Sequencing Method</b>	
Sample randomisation: sequencing method	<input type="checkbox"/> WES <input type="checkbox"/> WGS
<b>Clinical information</b>	
Date of first medical presentation:	
Date of first specialist clinic consult:	
Name of specialist service:	
Date of presumed diagnosis (based on biochemical/histological studies performed):	
Differential diagnoses (please give multiple diagnoses, multiple diagnoses help the laboratory identify the disease gene):	
Presenting features triggering referral	
<b>Age of onset of presenting symptoms</b>	
<input type="checkbox"/> prenatal	<input type="checkbox"/> Juvenile (>5-16 years)
<input type="checkbox"/> Neonatal (Birth to 28 days)	<input type="checkbox"/> Early adult (>16-40 years)
<input type="checkbox"/> Infantile (> 28 days month to 1 year)	<input type="checkbox"/> Late adult (>40 years)
<input type="checkbox"/> Childhood (>1 to 5 years)	
<b>Evolution of symptoms</b>	
<input type="checkbox"/> Rapidly progressive (< 6months)	<input type="checkbox"/> Slowly progressive (> 6 months)
<input type="checkbox"/> Non-progressive	<input type="checkbox"/> acute-episodic (relapsing-remitting)
Symptoms at onset:	
Previous genotype data:	
<b>Syndromic phenotype</b>	
<input type="checkbox"/> Leigh disease	<input type="checkbox"/> MELAS
<input type="checkbox"/> MERRF	<input type="checkbox"/> Pearson-Lammi
<input type="checkbox"/> Kearns-Sayre	<input type="checkbox"/> MNGIE
<input type="checkbox"/> Alpers	<input type="checkbox"/> Others:
<b>Muscle weakness</b>	
Muscle weakness	<input type="checkbox"/> Yes <input type="checkbox"/> No
i. Facial	<input type="checkbox"/> Yes <input type="checkbox"/> No
ii. Ptosis	<input type="checkbox"/> Yes <input type="checkbox"/> No
iii. Ophthalmoplegia	<input type="checkbox"/> Yes <input type="checkbox"/> No
iv. Axial/paraspinal	<input type="checkbox"/> Yes <input type="checkbox"/> No
v. Prox. UL	<input type="checkbox"/> Yes <input type="checkbox"/> No
vi. Prox. LL	<input type="checkbox"/> Yes <input type="checkbox"/> No
vii. Intrinsic hand muscles	<input type="checkbox"/> Yes <input type="checkbox"/> No
viii. Diaphragmatic / chest wall	<input type="checkbox"/> Yes <input type="checkbox"/> No
ix. Global weakness	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Muscle atrophy/hypotrophy</b>	
Muscle atrophy/hypotrophy	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not assessed
i. Facial expression normal	<input type="checkbox"/> Yes <input type="checkbox"/> No
ii. Axial/ paraspinal	<input type="checkbox"/> Yes <input type="checkbox"/> No
iii. Masseter	<input type="checkbox"/> Yes <input type="checkbox"/> No
iv. Glossal	<input type="checkbox"/> Yes <input type="checkbox"/> No
v. Prox. UL	<input type="checkbox"/> Yes <input type="checkbox"/> No
vi. Prox. LL	<input type="checkbox"/> Yes <input type="checkbox"/> No
vii. Distal UL	<input type="checkbox"/> Yes <input type="checkbox"/> No
viii. Distal LL	<input type="checkbox"/> Yes <input type="checkbox"/> No
ix. intrinsic hand muscles	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Fasciculations</b>	
Fasciculations:	<input type="checkbox"/> Yes <input type="checkbox"/> No
- if present, pattern:	
Short comment:	
Muscle pain	<input type="checkbox"/> Yes <input type="checkbox"/> No
Muscle cramps	<input type="checkbox"/> Yes <input type="checkbox"/> No
- If yes:	
<input type="checkbox"/> at rest	
<input type="checkbox"/> with exercise	



Muscle fatigue	<input type="checkbox"/> Yes <input type="checkbox"/> No
- If yes:	
<input type="checkbox"/> Independently ambulatory for 500m – 1000m without fatigue	
<input type="checkbox"/> Independently ambulatory for <500m	
<input type="checkbox"/> Dependent ambulation due to neuromuscular disease [wheelchair]	
General exercise intolerance	<input type="checkbox"/> Yes <input type="checkbox"/> No
- Comment:	
Rhabdomyolysis/myoglobinuria	<input type="checkbox"/> Yes <input type="checkbox"/> No
Malignant hyperthermia	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Joint hyperlaxity/hypermobility</b>	
Joint hyperlaxity/hypermobility	<input type="checkbox"/> Yes <input type="checkbox"/> No
i. Neck	<input type="checkbox"/> Yes <input type="checkbox"/> No
ii. Elbows	<input type="checkbox"/> Yes <input type="checkbox"/> No
iii. Fingers	<input type="checkbox"/> Yes <input type="checkbox"/> No
iv. Hip	<input type="checkbox"/> Yes <input type="checkbox"/> No
v. Knees	<input type="checkbox"/> Yes <input type="checkbox"/> No
vi. Ankles.	<input type="checkbox"/> Yes <input type="checkbox"/> No
vii. Wrist	<input type="checkbox"/> Yes <input type="checkbox"/> No
viii. Cutaneous laxity	<input type="checkbox"/> Yes <input type="checkbox"/> No
ix. Beighton score: _____ (0-9 see Appendix 1)	
x. Comment:	
<b>Joint contractures</b>	
Joint contractures	<input type="checkbox"/> Yes <input type="checkbox"/> No
i. Arthrogyrosis multiplex congenita	<input type="checkbox"/> Yes <input type="checkbox"/> No
ii. Neck	<input type="checkbox"/> Yes <input type="checkbox"/> No
iii. Shoulders	<input type="checkbox"/> Yes <input type="checkbox"/> No
iv. Elbows	<input type="checkbox"/> Yes <input type="checkbox"/> No
v. Wrists	<input type="checkbox"/> Yes <input type="checkbox"/> No
vi. Fingers	<input type="checkbox"/> Yes <input type="checkbox"/> No
vii. Hip	<input type="checkbox"/> Yes <input type="checkbox"/> No
viii. Knees	<input type="checkbox"/> Yes <input type="checkbox"/> No
ix. Ankles	<input type="checkbox"/> Yes <input type="checkbox"/> No
x. Toes	<input type="checkbox"/> Yes <input type="checkbox"/> No
xi. Comment:	
<b>Oropharyngeal dysfunction (see definition – Appendix 2)</b>	
Oropharyngeal dysfunction	<input type="checkbox"/> Yes <input type="checkbox"/> No
i. Dysarthria	<input type="checkbox"/> Yes <input type="checkbox"/> No
ii. Dysphagia	<input type="checkbox"/> Yes <input type="checkbox"/> No
iii. Dysarthria and dysphagia	<input type="checkbox"/> Yes <input type="checkbox"/> No
iv. Dysphonia	<input type="checkbox"/> Yes <input type="checkbox"/> No
v. Bulbar palsy	<input type="checkbox"/> Yes <input type="checkbox"/> No
vi. Pseudobulbar palsy	<input type="checkbox"/> Yes <input type="checkbox"/> No
vii. Comment:	
<b>Respiratory abnormalities</b>	
Respiratory abnormalities	<input type="checkbox"/> Yes <input type="checkbox"/> No
i. Assisted ventilation	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
ii. Episodic hyperventilation	<input type="checkbox"/> Yes <input type="checkbox"/> No
iii. Episodic apnoea	<input type="checkbox"/> Yes <input type="checkbox"/> No
- If yes:	
<input type="checkbox"/> central	
<input type="checkbox"/> obstructive	
iv. Comment:	
<b>Tone</b>	



i. Hypotonia	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comment:	
ii. Hypertonia (spasticity)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comment:	
iii. Hypertonia (dystonia)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comment:	
<b>Deep tendon reflexes</b>	
	LEFT
i. Biceps	<input type="checkbox"/> Hypo <input type="checkbox"/> Normal <input type="checkbox"/> Hyper <input type="checkbox"/> Not Elicited
ii. Triceps	<input type="checkbox"/> Hypo <input type="checkbox"/> Normal <input type="checkbox"/> Hyper <input type="checkbox"/> Not Elicited
iii. Patellar	<input type="checkbox"/> Hypo <input type="checkbox"/> Normal <input type="checkbox"/> Hyper <input type="checkbox"/> Not Elicited
iv. Ankle	<input type="checkbox"/> Hypo <input type="checkbox"/> Normal <input type="checkbox"/> Hyper <input type="checkbox"/> Not Elicited
v. Plantars	<input type="checkbox"/> Up <input type="checkbox"/> Down <input type="checkbox"/> Absent
vi. Comment:	
<b>Extrapyramidal features</b>	
Myoclonus	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pattern:	
Choreathetosis	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pattern:	
Tremor	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pattern:	
Parkinsonism	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pattern:	
<b>Cerebellar dysfunction</b>	
Cerebellar dysfunction	<input type="checkbox"/> Yes <input type="checkbox"/> No
Trunk axial ataxia	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pattern:	
Appendicular dysmetria	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pattern:	
<b>Other neurological abnormalities</b>	
Neuro-cognitive abnormalities	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed
i. Global development delay	<input type="checkbox"/> Yes <input type="checkbox"/> No
ii. Delayed early motor milestones	<input type="checkbox"/> Yes <input type="checkbox"/> No
iii. Delayed social development	<input type="checkbox"/> Yes <input type="checkbox"/> No
iv. Delayed speech and language development	<input type="checkbox"/> Yes <input type="checkbox"/> No
v. Intellectual disability	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed
a. Severity	<input type="checkbox"/> Mild <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Profound
vi. Loss of skills/regression	<input type="checkbox"/> Yes <input type="checkbox"/> No
- age of onset:	
vii. Comment:	
<b>Neuro-psychiatric disease</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed
Comment:	
<b>Neuro-vascular features</b>	
Neuro-vascular features	<input type="checkbox"/> Yes <input type="checkbox"/> No
i. Stroke-like episodes	<input type="checkbox"/> Yes <input type="checkbox"/> No
Specify:	
<input type="checkbox"/> vascular pattern <input type="checkbox"/> non-vascular pattern <input type="checkbox"/> stroke like episode with resolution	
Pattern:	
ii. Migraine	<input type="checkbox"/> Yes <input type="checkbox"/> No

Pattern:			
iii. Headache other	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Pattern:			
<b>Seizures</b>			
i. Seizures	<input type="checkbox"/> Yes <input type="checkbox"/> No		
ii. If Yes, seizure type	<input type="checkbox"/> Generalised <input type="checkbox"/> Focal <input type="checkbox"/> Other		
- Other please specify:			
iii. Comment:			
<b>Brainstem/ cranial neuropathy</b>			
Brainstem/ cranial neuropathy	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Pattern:			
Spinal cord pathology	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Pattern:			
Peripheral neuropathy	<input type="checkbox"/> Yes <input type="checkbox"/> No		
- If yes:			
<input type="checkbox"/> Motor neuropathy			
<input type="checkbox"/> Sensory neuropathy			
Pattern:			
<b>i. Walking</b>			
<input type="checkbox"/> Normal	<input type="checkbox"/> Level surfaces	<input type="checkbox"/> Stick/s	<input type="checkbox"/> Crutches
<input type="checkbox"/> Walker/frame	<input type="checkbox"/> Wheel chair but transfers	<input type="checkbox"/> Non-ambulant	
Day to day variability of gait		<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Functional mobility scale (1-6):</b>			
(5m):			
(50m):			
(500m):			
<b>Hearing Loss</b>			
Sensorineural deafness	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed		
if present:	<input type="checkbox"/> congenital <input type="checkbox"/> later onset		
if present:	<input type="checkbox"/> unilateral <input type="checkbox"/> bilateral		
Conductive deafness	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed		
if present:	<input type="checkbox"/> unilateral <input type="checkbox"/> bilateral		
Comment:			
<b>Ophthalmological abnormalities</b>			
Ophthalmological abnormalities	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed		
i. Cortical blindness	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed		
ii. Optic atrophy/neuropathy	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed		
iii. Retinitis pigmentosa	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed		
iv. Cataracts	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed		
v. Corneal clouding	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed		
vi. Glaucoma	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed		
vii. Nystagmus	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed		
<b>Skeletal deformities</b>			
Skeletal deformities	<input type="checkbox"/> Yes <input type="checkbox"/> No		
i. Scoliosis	<input type="checkbox"/> Yes <input type="checkbox"/> No		
ii. Lordosis	<input type="checkbox"/> Yes <input type="checkbox"/> No		
iii. Kyphosis	<input type="checkbox"/> Yes <input type="checkbox"/> No		
iv. Pectus excavatum	<input type="checkbox"/> Yes <input type="checkbox"/> No		
v. Pectus carinatum	<input type="checkbox"/> Yes <input type="checkbox"/> No		



vi. Brachydactyly	<input type="checkbox"/> Yes	<input type="checkbox"/> No
vii. Comment:		
<b>Cardiac</b>		
Cardiomyopathy	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
- If present	<input type="checkbox"/> Dilated	<input type="checkbox"/> Hypertrophic <input type="checkbox"/> Left ventricular non-compaction <input type="checkbox"/> Endocardial fibro-elastosis
Cardiac conduction defect	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
If present specify:		
Structural heart defect	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
Details:		
<b>Endocrinological abnormalities</b>		
Endocrinological abnormalities	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
i. Diabetes mellitus	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
ii. Diabetes insipidus	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
iii. Hypopituitarism	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
iv. Hypothyroidism	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
v. Hypoparathyroidism	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
vi. Adrenal insufficiency	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
v. Hypogonadism	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
vi. Growth hormone deficiency	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
vii. SIADH	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
viii. Comment:		
<b>GI Tract abnormalities</b>		
GI Tract abnormalities	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
i. gastro-oesophageal reflux	<input type="checkbox"/> Yes	<input type="checkbox"/> No
ii. Nasogastric tube feeding	<input type="checkbox"/> Yes	<input type="checkbox"/> No
iii. Pseudo-obstruction	<input type="checkbox"/> Yes	<input type="checkbox"/> No
iv. Malabsorption	<input type="checkbox"/> Yes	<input type="checkbox"/> No
v. Constipation	<input type="checkbox"/> Yes	<input type="checkbox"/> No
vi. Clinical evidence of hepatitis	<input type="checkbox"/> Yes	<input type="checkbox"/> No
vii. Comment (hepatitis):		
vii. Comment:		
<b>Renal abnormalities</b>		
Renal abnormalities	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
i. Hypertension	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
ii. Renal impairment	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
iii. Fanconi RTA	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
iv. Focal segmental glomerulosclerosis	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
v. Nephrotic syndrome	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
vi. Other renal abnormality		
vii. Comment:		
<b>Haematological abnormalities</b>		
Haematological abnormalities	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
i. Anaemia	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
a. Type	<input type="checkbox"/> Fe deficiency	<input type="checkbox"/> Sideroblastic <input type="checkbox"/> Other:
Other (please specify)		
ii. Neutropenia	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
iii. Cyclical	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed



iv. Thrombocytopenia	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Assessed
v. Comment:			
<b>Prenatal</b>			
i. Pregnancy	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	
a) Gestation (weeks completed):			
b) Details:			
c) Foetal movements	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	
d) Foetal dysmorphism	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
e) Polyhydramnios	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
f) IUGR	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
ii. Labour	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal	
a) Specify (e.g. CTG abnormalities? Meconium stained liquor?)			
b) Type of delivery: <input type="checkbox"/> NVD <input type="checkbox"/> C-section <input type="checkbox"/> Vacuum extraction <input type="checkbox"/> Other			
Other (please specify):			
<b>Neonatal</b>			
i. Ventilatory support	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
a) Improved over time? <input type="checkbox"/> Yes <input type="checkbox"/> No			
<input type="checkbox"/> Normalised <input type="checkbox"/> Ongoing ventilatory support			
Comment:			
ii. Feeding assistance	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
b) Improved over time? <input type="checkbox"/> Yes <input type="checkbox"/> No			
iii. Delayed head/neck control	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
iv. Apgar			
1 minute	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10
5 minutes	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10
v. Seizures	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
vi. Hypoglycaemia (< 2.6 mmol/L)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
vii. General Comments			
<b>Medications:</b>			
How medications are currently being administered?			
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10			
i. Medication 1:			
ii. Medication 2:			
iii. Medication 3:			
iv. Medication 4:			
v. Medication 5:			
vi. Medication 6:			
vii. Medication 7:			
viii. Medication 8:			
ix. Medication 9:			
x. Medication 10:			
xi. Comment:			
<b>Findings on laboratory examinations - please enter most recent test results.</b>			
Laboratory tests performed <input type="checkbox"/> Yes <input type="checkbox"/> No			
i. Highest lactate	_____ mmol/L	_____ normal range	Date of test:
ii. Venous/Cap lactate	_____ mmol/L	_____ normal range	Date of test:
iii. Venous pyruvate	_____ umol/L	_____ normal range	Date of test:



iv.	Plasma alanine	_____ umol/L	_____ normal range	Date of test:
v.	CSF lactate	_____ mmol/L	_____ normal range	Date of test:
vi.	CSF pyruvate	_____ umol/L	_____ normal range	Date of test:
vii.	CSF alanine	_____ umol/L	_____ normal range	Date of test:
viii.	CSF glycine	_____ umol/L	_____ normal range	Date of test:
ix.	CSF protein	_____ g/L	_____ normal range	Date of test:
x.	CSF folate	_____ nmol/L	_____ normal range	Date of test:
xi.	Serum FGF21	_____ U/L	_____ normal range	Date of test:
xii.	Serum GDF15	_____ U/L	_____ normal range	Date of test:
xiii.	Lactate: Pyruvate ratio			
xiv.	Comment:			
<b>Paired tests</b>				
i.	Venous lactate & CSF lactate	<input type="checkbox"/> Yes <input type="checkbox"/> No		
ii.	Venous pyruvate & CSF pyruvate	<input type="checkbox"/> Yes <input type="checkbox"/> No		
iii.	Plasma alanine & CSF alanine	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Urine amino acids and organic acids screen <input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Assessed				
Findings:				
Serum CK _____ U/L _____ normal range Date of test:				
<b>Liver function tests</b>				
Liver function tests performed <input type="checkbox"/> Yes <input type="checkbox"/> No				
i.	AST	_____ U/L	_____ normal range	Date of test:
ii.	ALT	_____ U/L	_____ normal range	Date of test:
iii.	Gamma-GT	_____ U/L	_____ normal range	Date of test:
iv.	ALP	_____ U/L	_____ normal range	Date of test:
v.	NH4	_____ U/L	_____ normal range	Date of test:
vi.	PT	_____ U/L	_____ normal range	Date of test:
vii.	APPT	_____ U/L	_____ normal range	Date of test:
viii.	INR	_____ U/L	_____ normal range	Date of test:
ix.	Albumin	_____ U/L	_____ normal range	Date of test:
x.	Blood glucose	_____ U/L	_____ normal range	Date of test:
Blood glucose <input type="checkbox"/> Fasting <input type="checkbox"/> Random <input type="checkbox"/> Postprandial				
<b>Audiology</b>				
Audiology testing <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed				
i. Comment:				
Audiology report upload:				
<b>Electrocardiography</b>				
i.	Electrocardiography	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Assessed		
ii.	Abnormality			
iii.	Comment:			
<b>Spirometry</b>				
Spirometry <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not assessed				
Age at test:				
i. FEV <sub>1</sub> values:				
ii. FVC values:				
iii. FEV <sub>1</sub> /FVC ratio:				
Peak cough flow: <input type="checkbox"/> Yes <input type="checkbox"/> No				
Age at test:				



i. Cough PEF value:	
Electroencephalogram - (can enter up to 3 EEGs on REDCap)	
Electroencephalogram (EEG)	<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal <input type="checkbox"/> Not Assessed
i. Date of test 1:	
Findings:	
Upload EEG report 1:	
ii. Date of test 2:	
Findings:	
Upload EEG report 2:	
iii. Date of test 3:	
Findings:	
Upload EEG report 3:	
MRI (can enter up to 5 Brain MRIs on REDCap)	
Brain MRI	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed
i. Date of test 1:	
Findings:	
Upload Brain MRI report 1:	
ii. Date of test 2:	
Findings:	
Upload Brain MRI report 2:	
iii. Date of test 3:	
Findings:	
Upload Brain MRI report 3:	
iv. Date of test 4:	
Findings:	
Upload Brain MRI report 4:	
v. Date of test 5:	
Findings:	
Upload Brain MRI report 5:	
Spinal MRI (can enter up to 5 Spinal MRIs on REDCap)	
Spinal MRI	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed
i. Date of test 1:	
Findings:	
Upload Spinal MRI report 1:	
ii. Date of test 2:	
Findings:	
Upload Spinal MRI report 2:	
iii. Date of test 3:	
Findings:	
Upload Spinal MRI report 3:	
iv. Date of test 4:	
Findings:	
Upload Spinal MRI report 4:	
v. Date of test 5:	
Findings:	
Upload Spinal MRI report 5:	
Proton MRS lactate peak	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Assessed
Site tested:	
Muscle MRI (can enter up to 5 Muscle MRIs on REDCap)	





Muscle MRI	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Date of test:	<input type="checkbox"/> Not Assessed
i. Date of test 1:				
Findings:				
Muscle MRI 1				
ii. Date of test 2:				
Findings:				
Muscle MRI 2				
iii. Date of test 3:				
Findings:				
Muscle MRI 3				
iv. Date of test 4:				
Findings:				
Muscle MRI 4				
v. Date of test 5:				
Findings:				
Muscle MRI 5				
Findings:				
P31 MRS	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Assessed	
Site tested:		Result:		
<b>Electromyography</b>				
Electromyography	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Assessed	
Myopathic	<input type="checkbox"/> Yes	<input type="checkbox"/> No	iii. Spontaneous activity	<input type="checkbox"/> Yes <input type="checkbox"/> No
i. Mixed	<input type="checkbox"/> Yes	<input type="checkbox"/> No	iv. Complex discharges	<input type="checkbox"/> Yes <input type="checkbox"/> No
v. Specify muscle:				
vi. Short comment:				
<b>Nerve conduction studies</b>				
Nerve conduction studies	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Assessed	
i. Motor:	<input type="checkbox"/> Demyelinating	<input type="checkbox"/> Axonal	<input type="checkbox"/> Mixed.	<input type="checkbox"/> Normal <input type="checkbox"/> Not Assessed
ii. Sensory:	<input type="checkbox"/> Demyelinating	<input type="checkbox"/> Axonal	<input type="checkbox"/> Mixed.	<input type="checkbox"/> Normal. <input type="checkbox"/> Not Assessed
iii. Short comment:				
<b>Evoked potentials</b>				
i. Auditory evoked potentials	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Assessed	
Short comment:				
Upload report (auditory)				
ii. Visual evoked potentials	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Assessed	
Short comment:				
Upload report (visual)				
iii. Electroretinogram	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Assessed	
Short comment:				
<b>Nerve biopsy</b>				
Nerve biopsy	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Assessed	
Short comment:				
<b>Skeletal muscle biopsy</b>				
Skeletal muscle biopsy	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Assessed	
Site of biopsy:				
Medications during biopsy:	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
Medications:				



i. Ragged red fibres	<input type="checkbox"/> Yes	<input type="checkbox"/> No
ii. Ragged blue fibres	<input type="checkbox"/> Yes	<input type="checkbox"/> No
iii. COX-negative fibres	<input type="checkbox"/> Yes	<input type="checkbox"/> No
iv. Reduced COX staining	<input type="checkbox"/> Yes	<input type="checkbox"/> No
v. SDH positive	<input type="checkbox"/> Yes	<input type="checkbox"/> No
vi. Steatosis	<input type="checkbox"/> Yes	<input type="checkbox"/> No
EM abnormalities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
findings:		
MRC enzymology	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
Muscle findings:		
Other comments:		
<b>Heart muscle biopsy</b>		
Heart muscle biopsy	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
Medications during biopsy:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Medications:		
i. Ragged red fibres	<input type="checkbox"/> Yes	<input type="checkbox"/> No
ii. Ragged blue fibres	<input type="checkbox"/> Yes	<input type="checkbox"/> No
iii. COX-negative fibres	<input type="checkbox"/> Yes	<input type="checkbox"/> No
iv. Reduced COX staining	<input type="checkbox"/> Yes	<input type="checkbox"/> No
v. SDH positive	<input type="checkbox"/> Yes	<input type="checkbox"/> No
vi. Steatosis	<input type="checkbox"/> Yes	<input type="checkbox"/> No
EM abnormalities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
findings:		
MRC enzymology	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
Muscle findings:		
Other comments:		
<b>Liver biopsy</b>		
Liver biopsy	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
Medications during biopsy:		
Medications		
i. Fibrosis	<input type="checkbox"/> Yes	<input type="checkbox"/> No
ii. Cirrhosis	<input type="checkbox"/> Yes	<input type="checkbox"/> No
iii. Steatosis	<input type="checkbox"/> Yes	<input type="checkbox"/> No
EM abnormalities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Findings:		
MRC enzymology	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Not Assessed
Muscle findings:		
Other comments:		
<b>Echocardiography</b>		
Echocardiography	<input type="checkbox"/> Normal	<input type="checkbox"/> Abnormal <input type="checkbox"/> Not assessed
Abnormality:		
Upload report:		
<b>Previous Genetic Testing</b>		
Previous Genetic Testing	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Specify genetic testing:		

**Mitochondrial Diseases Flagship**

**Optimal Clinical Data**

*Version 1, 24.9.19*

**Australian  
Genomics**



DNA Source	<input type="checkbox"/> Blood	<input type="checkbox"/> Tissue-muscle	<input type="checkbox"/> Tissue- liver	<input type="checkbox"/> tissue-other:
	<input type="checkbox"/> Buccal	<input type="checkbox"/> Saliva	<input type="checkbox"/> Urine	<input type="checkbox"/> Other:
Specify other tissue:				
Specify other DNA source:				