



Mitochondrial Molecular Tests

Prices of the tests are in Euro, but can be converted to your local currency with the [currency converter](#).

Disease	OMIM	Gene / Mutation	Price in Euro
ALZHEIMER DISEASE		MTND1 (COMPLEX 1, SUBUNIT ND1, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND1NADH DEHYDROGENASE, SUBUNIT 1)	For all 7 ND Genes: 1100
ATAXIA, CATARACT AND DIABETES MELLITUS » RETINITIS PIGMENTOSA-DEAFNESS SYNDROME		MTTS2 (TRANSFER RNA, MITOCHONDRIAL, SERINE, 2)	For all 22 tRNA Genes: 850
ATAXIA, PROGRESSIVE SEIZURES, MENTAL DETERIORATION, AND HEARING LOSS		MTTV (TRANSFER RNA, MITOCHONDRIAL, VALINE)	For all 22 tRNA Genes: 850
CARDIOMYOPATHY	590050	C3254G	150
		A3260G	150
		C3303T	150
CARDIOMYOPATHY	590050	MTRNR1(RIBOSOMAL RNA, MITOCHONDRIAL, 12S)	For all 22 tRNA Genes: 850
CARDIOMYOPATHY	590050	MTTG (TRANSFER RNA, MITOCHONDRIAL, GLYCINE)	For all 22 tRNA Genes: 850
CARDIOMYOPATHY	590050	MTTH (TRANSFER RNA, MITOCHONDRIAL, HISTIDINE)	For all 22 tRNA Genes: 850
CARDIOMYOPATHY	590050	MTTI (TRANSFER RNA, MITOCHONDRIAL, ISOLEUCINE)	For all 22 tRNA Genes: 850
CARDIOMYOPATHY	590050	MTTL1 (TRANSFER RNA, MITOCHONDRIAL, LEUCINE, 1)	For all 22 tRNA Genes: 850
CARDIOMYOPATHY	590050	MTTL2 (TRANSFER RNA, MITOCHONDRIAL, LEUCINE, 2)	For all 22 tRNA Genes: 850
CARDIOMYOPATHY AND DEAFNESS		MTTK (TRANSFER RNA, MITOCHONDRIAL, LYSINE)	For all 22 tRNA Genes: 850
CARDIOMYOPATHY, INFANTILE HISTIOCYTOID » CARDIOMYOPATHY, INFANTILE XANTHOMATOUS » CARDIOMYOPATHY, FOCAL LIPID » CARDIOMYOPATHY, ONCOCYTIC » FOAMY MYOCARDIAL TRANSFORMATION OF INFANCY	500000	MTCYB (CYTOCHROME b OF COMPLEX 3, COMPLEX 3, CYTOCHROME b SUBUNITUBIQUINONE-CYTOCHROME c OXIDOREDUCTASE, CYTOCHROME b SUBUNIT)	480
CHLORAMPHENICOL RESISTANCE		MTRNR2(RIBOSOMAL RNA, MITOCHONDRIAL, 16S)	For all 22 tRNA Genes: 850
COMPLEX 1, MITOCHONDRIAL RESPIRATORY CHAIN, DEFICIENCY OF » NADH:Q(1) OXIDOREDUCTASE DEFICIENCY » NADH-COENZYME Q REDUCTASE DEFICIENCY » MITOCHONDRIAL NADH DEHYDROGENASE COMPONENT OF COMPLEX 1, DEFICIENCY OF	252010	MTND1 (COMPLEX 1, SUBUNIT ND1, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND1NADH DEHYDROGENASE, SUBUNIT 1)	For all 7 ND Genes: 1100
COMPLEX 1, MITOCHONDRIAL RESPIRATORY CHAIN, DEFICIENCY OF » NADH:Q(1) OXIDOREDUCTASE DEFICIENCY » NADH-COENZYME Q REDUCTASE DEFICIENCY » MITOCHONDRIAL NADH DEHYDROGENASE COMPONENT OF COMPLEX 1, DEFICIENCY OF	252010	MTND2 (COMPLEX 1, SUBUNIT ND2, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND2NADH DEHYDROGENASE, SUBUNIT 2)	For all 7 ND Genes: 1100

COMPLEX 1, MITOCHONDRIAL RESPIRATORY CHAIN, DEFICIENCY OF » NADH:Q(1) OXIDOREDUCTASE DEFICIENCY » NADH-COENZYME Q REDUCTASE DEFICIENCY » MITOCHONDRIAL NADH DEHYDROGENASE COMPONENT OF COMPLEX 1, DEFICIENCY OF	252010	MTND3 (COMPLEX 1, SUBUNIT ND3, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND3NADH DEHYDROGENASE, SUBUNIT 3)	For all 7 ND Genes: 1100
COMPLEX 1, MITOCHONDRIAL RESPIRATORY CHAIN, DEFICIENCY OF » NADH:Q(1) OXIDOREDUCTASE DEFICIENCY » NADH-COENZYME Q REDUCTASE DEFICIENCY » MITOCHONDRIAL NADH DEHYDROGENASE COMPONENT OF COMPLEX 1, DEFICIENCY OF	252010	MTND4 (COMPLEX 1, SUBUNIT ND4, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND4NADH DEHYDROGENASE, SUBUNIT 4)	For all 7 ND Genes: 1100
COMPLEX 1, MITOCHONDRIAL RESPIRATORY CHAIN, DEFICIENCY OF » NADH:Q(1) OXIDOREDUCTASE DEFICIENCY » NADH-COENZYME Q REDUCTASE DEFICIENCY » MITOCHONDRIAL NADH DEHYDROGENASE COMPONENT OF COMPLEX 1, DEFICIENCY OF	252010	MTND5 (COMPLEX 1, SUBUNIT ND5, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND5NADH DEHYDROGENASE, SUBUNIT 5)	For all 7 ND Genes: 1100
COMPLEX 1, MITOCHONDRIAL RESPIRATORY CHAIN, DEFICIENCY OF » NADH:Q(1) OXIDOREDUCTASE DEFICIENCY » NADH-COENZYME Q REDUCTASE DEFICIENCY » MITOCHONDRIAL NADH DEHYDROGENASE COMPONENT OF COMPLEX 1, DEFICIENCY OF	252010	MTND6 (COMPLEX 1, SUBUNIT ND6, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND6NADH DEHYDROGENASE, SUBUNIT 6)	For all 7 ND Genes: 1100
COMPLEX 3, MITOCHONDRIAL RESPIRATORY CHAIN, DEFICIENCY OF	124000	MTCYB (CYTOCHROME b OF COMPLEX 3, COMPLEX 3, CYTOCHROME b SUBUNITUBIQUINONE-CYTOCHROME c OXIDOREDUCTASE, CYTOCHROME b SUBUNIT)	480
COMPLEX 4, MITOCHONDRIAL RESPIRATORY CHAIN, DEFICIENCY OF » CYTOCHROME c OXIDASE DEFICIENCY » COX DEFICIENCY	220110	MTCO1 (COMPLEX 4, CYTOCHROME c OXIDASE SUBUNIT 1, CYTOCHROME c OXIDASE 1; COX1)	For all 3 MTCO Genes: 790
COMPLEX 4, MITOCHONDRIAL RESPIRATORY CHAIN, DEFICIENCY OF » CYTOCHROME c OXIDASE DEFICIENCY » COX DEFICIENCY	220110	MTCO2 (COMPLEX 4, CYTOCHROME c OXIDASE SUBUNIT 2, CYTOCHROME c OXIDASE 2; COX2)	For all 3 MTCO Genes: 790
COMPLEX 4, MITOCHONDRIAL RESPIRATORY CHAIN, DEFICIENCY OF » CYTOCHROME c OXIDASE DEFICIENCY » COX DEFICIENCY	220110	MTCO3 (COMPLEX 4, CYTOCHROME c OXIDASE SUBUNIT 3, CYTOCHROME c OXIDASE 3; COX3)	For all 3 MTCO Genes: 790
CPEO (CHRONIC PROGRESSIVE EXTERNAL OPHTHALMOPLEGIA)		4977 bp Deletion	300
		A3243G	150
		T3250C	150
		G3316A	150
		T4274C	150
		T4285C	150
		G4298A	150
		G4309A	150
		T5628C	150
		A5692G	150
		G5703A	150
		G8342A	150
		A12308G	150
		T12311C	150
		G12315A	150
CPEO (CHRONIC PROGRESSIVE EXTERNAL OPHTHALMOPLEGIA)		MTTK (TRANSFER RNA, MITOCHONDRIAL, LYSINE)	For all 22 tRNA Genes: 850
CPEO (CHRONIC PROGRESSIVE EXTERNAL OPHTHALMOPLEGIA)		MTTL1 (TRANSFER RNA, MITOCHONDRIAL, LEUCINE, 1)	For all 22 tRNA Genes: 850
CPEO (CHRONIC PROGRESSIVE EXTERNAL OPHTHALMOPLEGIA)		MTTY (TRANSFER RNA, MITOCHONDRIAL, TYROSINE)	For all 22 tRNA Genes: 850
CYTOCHROME c OXIDASE DEFICIENCY	220110	MTTS1 (TRANSFER RNA, MITOCHONDRIAL, SERINE, 1)	For all 22 tRNA Genes: 850
DEAFNESS		A1555G	150
		7472insC	150
		T7511C	150
		A7445G	150
		961delT/insC	150
		T961G	150
		T1095C	150
		C1494T	150

		A827G	150
		T1005C	150
		T1291C	150
		T1243C	150
		A1116G	150
		All 10 mutations in the MTRNR1 and MTTT1 genes associated with non-syndromic hearing loss : A1555G, 961delT/insC, T961G, T1095C, C1494T, A827G, T1005C, T1291C, T1243C and A1116G	600
DEAFNESS		MTRNR1 (RIBOSOMAL RNA, MITOCHONDRIAL, 12S)	For all 22 tRNA Genes: 850
DEAFNESS, AMINOGLYCOSIDE-INDUCED	580000	MTRNR1 (RIBOSOMAL RNA, MITOCHONDRIAL, 12S)	For all 22 tRNA Genes: 850
DEAFNESS AND MIGRAINE		MTTQ (TRANSFER RNA, MITOCHONDRIAL, GLUTAMINE)	For all 22 tRNA Genes: 850
DEAFNESS AND DIABETES		A3243G	150
DEAFNESS AND DIABETES		MTTK (TRANSFER RNA, MITOCHONDRIAL, LYSINE)	For all 22 tRNA Genes: 850
DEAFNESS AND PIGMENTARY RETINOPATHY		MTTH (TRANSFER RNA, MITOCHONDRIAL, HISTIDINE)	For all 22 tRNA Genes: 850
DYSTONIA, ADULT-ONSET		MTND1 (COMPLEX 1, SUBUNIT ND1, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND1NADH DEHYDROGENASE, SUBUNIT 1)	For all 7 ND Genes: 1100
DYSTONIA, FAMILIAL, WITH VISUAL FAILURE AND STRIATAL LUCENCIES » LEBER OPTIC ATROPHY AND DYSTONIA » MARSDEN SYNDROME	500001	MTND4 (COMPLEX 1, SUBUNIT ND4, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND4NADH DEHYDROGENASE, SUBUNIT 4)	For all 7 ND Genes: 1100
DYSTONIA, FAMILIAL, WITH VISUAL FAILURE AND STRIATAL LUCENCIES » LEBER OPTIC ATROPHY AND DYSTONIA » MARSDEN SYNDROME	500001	MTND6 (COMPLEX 1, SUBUNIT ND6, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND6NADH DEHYDROGENASE, SUBUNIT 6)	For all 7 ND Genes: 1100
ENCEPHALOMYOPATHY		MTCYB (CYTOCHROME b OF COMPLEX 3, COMPLEX 3, CYTOCHROME b SUBUNITUBIQUINONE-CYTOCHROME c OXIDOREDUCTASE, CYTOCHROME b SUBUNIT)	480
ENCEPHALOMYOPATHY		MTTL1 (TRANSFER RNA, MITOCHONDRIAL, LEUCINE, 1)	For all 22 tRNA Genes: 850
ENCEPHALOMYOPATHY		MTTL2 (TRANSFER RNA, MITOCHONDRIAL, LEUCINE, 2)	For all 22 tRNA Genes: 850
ENCEPHALOMYOPATHY		MTTW (TRANSFER RNA, MITOCHONDRIAL, TRYPTOPHAN)	For all 22 tRNA Genes: 850
ENCEPHALOPATHY, FAMILIAL PROGRESSIVE NECROTIZING		MTTI (TRANSFER RNA, MITOCHONDRIAL, ISOLEUCINE)	For all 22 tRNA Genes: 850
EXERCISE INTOLERANCE		MTCYB (CYTOCHROME b OF COMPLEX 3, COMPLEX 3, CYTOCHROME b SUBUNITUBIQUINONE-CYTOCHROME c OXIDOREDUCTASE, CYTOCHROME b SUBUNIT)	480
EXERCISE INTOLERANCE		MTTG (TRANSFER RNA, MITOCHONDRIAL, GLYCINE)	For all 22 tRNA Genes: 850
EXERCISE INTOLERANCE AND COMPLEX 3 DEFICIENCY		MTTY (TRANSFER RNA, MITOCHONDRIAL, TYROSINE)	For all 22 tRNA Genes: 850

EXERCISE INTOLERANCE, CARDIOMYOPATHY, AND SEPTOOPTIC DYSPLASIA		MTCYB (CYTOCHROME b OF COMPLEX 3, COMPLEX 3, CYTOCHROME b SUBUNITUBIQUINONE-CYTOCHROME c OXIDOREDUCTASE, CYTOCHROME b SUBUNIT)	480
FOCAL SEGMENTAL GLOMERULOSCLEROSIS AND DILATED CARDIOMYOPATHY		MTTY (TRANSFER RNA, MITOCHONDRIAL, TYROSINE)	For all 22 tRNA Genes: 850
HYPOMAGNESEMIA, HYPERTENSION, AND HYPERCHOLESTEROLEMIA	500005	MTTI (TRANSFER RNA, MITOCHONDRIAL, ISOLEUCINE)	For all 22 tRNA Genes: 850
KEARNS-SAYRE SYNDROME (KSS)	530000	4977 bp Deletion	300
KEARNS-SAYRE SYNDROME (KSS)	530000	MTTL1 (TRANSFER RNA, MITOCHONDRIAL, LEUCINE, 1)	For all 22 tRNA Genes: 850
KERATODERMA, PALMOPLANTAR, WITH DEAFNESS » DEAFNESS, NONSYNDROMIC SENSORINEURAL	148350	MTTS1 (TRANSFER RNA, MITOCHONDRIAL, SERINE, 1)	For all 22 tRNA Genes: 850
LEBER HEREDITARY OPTIC NEUROPATHY (LHON)	535000	MTATP6 (ATP SYNTHASE 6, COMPLEX 5, ATP SYNTHASE, SUBUNIT ATPase 6, ATP6)	MTATP6 and MTATP8: 480
LEBER HEREDITARY OPTIC NEUROPATHY (LHON)	535000	MTCO1 (COMPLEX 4, CYTOCHROME c OXIDASE SUBUNIT 1, CYTOCHROME c OXIDASE 1; COX1)	For all 3 MTCO Genes: 790
LEBER HEREDITARY OPTIC NEUROPATHY (LHON)	535000	MTCO3 (COMPLEX 4, CYTOCHROME c OXIDASE SUBUNIT 3, CYTOCHROME c OXIDASE 3; COX3)	For all 3 MTCO Genes: 790
LEBER HEREDITARY OPTIC NEUROPATHY (LHON)	535000	MTCYB (CYTOCHROME b OF COMPLEX 3, COMPLEX 3, CYTOCHROME b SUBUNITUBIQUINONE-CYTOCHROME c OXIDOREDUCTASE, CYTOCHROME b SUBUNIT)	480
LEBER HEREDITARY OPTIC NEUROPATHY (LHON)	535000	MTND1 (COMPLEX 1, SUBUNIT ND1, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND1NADH DEHYDROGENASE, SUBUNIT 1)	For all 7 ND Genes: 1100
LEBER HEREDITARY OPTIC NEUROPATHY (LHON)	535000	MTND2 (COMPLEX 1, SUBUNIT ND2, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND2NADH DEHYDROGENASE, SUBUNIT 2)	For all 7 ND Genes: 1100
LEBER HEREDITARY OPTIC NEUROPATHY (LHON)	535000	MTND4 (COMPLEX 1, SUBUNIT ND4, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND4NADH DEHYDROGENASE, SUBUNIT 4)	For all 7 ND Genes: 1100
LEBER HEREDITARY OPTIC NEUROPATHY (LHON)	535000	MTND6 (COMPLEX 1, SUBUNIT ND6, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND6NADH DEHYDROGENASE, SUBUNIT 6)	For all 7 ND Genes: 1100
LEBER HEREDITARY OPTIC NEUROPATHY (LHON)	535000	G3460A	150
		G11778A	150
		C3275A	150
		G3316A	150
		T3394C	150
		T4216C	150
		G7444A	150
		T9101C	150
		G13708A	150
		T14484C	150
		G14459A	150
		G15257A	150

		10 MUTATIONS: C3275A, G3316A, T3394C, T4216C, G7444A, T9101C, G13708A, G14459A, T14484C, G15257A	600
LEIGH SYNDROME	256000	MTATP6 (ATP SYNTHASE 6, COMPLEX 5, ATP SYNTHASE, SUBUNIT ATPase 6, ATP6)	MTATP6 and MTATP8: 480
LEIGH SYNDROME	256000	MTCO3 (COMPLEX 4, CYTOCHROME c OXIDASE SUBUNIT 3, CYTOCHROME c OXIDASE 3: COX3)	For all 3 MTCO Genes: 790
LEIGH SYNDROME	256000	MTND3 (COMPLEX 1, SUBUNIT ND3, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND3NADH DEHYDROGENASE, SUBUNIT 3)	For all 7 ND Genes: 1100
LEIGH SYNDROME	256000	MTND5 (COMPLEX 1, SUBUNIT ND5, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND5NADH DEHYDROGENASE, SUBUNIT 5)	For all 7 ND Genes: 1100
LEIGH SYNDROME	256000	MTND6 (COMPLEX 1, SUBUNIT ND6, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND6NADH DEHYDROGENASE, SUBUNIT 6)	For all 7 ND Genes: 1100
LEIGH SYNDROME	256000	MTTK (TRANSFER RNA, MITOCHONDRIAL, LYSINE)	For all 22 tRNA Genes: 850
LEIGH SYNDROME	256000	MTTL1 (TRANSFER RNA, MITOCHONDRIAL, LEUCINE, 1)	For all 22 tRNA Genes: 850
LEIGH SYNDROME	256000	MTTV (TRANSFER RNA, MITOCHONDRIAL, VALINE)	For all 22 tRNA Genes: 850
LEIGH SYNDROME	256000	MTTW (TRANSFER RNA, MITOCHONDRIAL, TRYPTOPHAN)	For all 22 tRNA Genes: 850
LEIGH SYNDROME	256000	T8993C	150
		T8993G	150
		C1177A	150
		C1624T	150
		T9176C	150
		T9176G	150
		9537insC	150
		A13084T	150
		G13513A	150
		G14459A	150
MELAS SYNDROME (MITOCHONDRIAL MYOPATHY, ENCEPHALOPATHY, LACTIC ACIDOSIS, AND STROKE-LIKE EPISODES)	540000	A3271G	150
		T8356C	150
		A13084T	150
		G13513A	150
		C3093G	150
		A3252G	150
		C3256T	150
		A3260G	150
		T3291C	150
		T3308C	150
		A13514G	150
		7 MUTATIONS: C3093G, A3252G, C3256T, A3260G, T3291C, T3308C, A13514G	550

MELAS SYNDROME (MITOCHONDRIAL MYOPATHY, ENCEPHALOPATHY, LACTIC ACIDOSIS, AND STROKE-LIKE EPISODES)	540000	MTND1 (COMPLEX 1, SUBUNIT ND1, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND1NADH DEHYDROGENASE, SUBUNIT 1)	For all 7 ND Genes: 1100
MELAS SYNDROME (MITOCHONDRIAL MYOPATHY, ENCEPHALOPATHY, LACTIC ACIDOSIS, AND STROKE-LIKE EPISODES)	540000	MTND5 (COMPLEX 1, SUBUNIT ND5, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND5NADH DEHYDROGENASE, SUBUNIT 5)	For all 7 ND Genes: 1100
MELAS SYNDROME (MITOCHONDRIAL MYOPATHY, ENCEPHALOPATHY, LACTIC ACIDOSIS, AND STROKE-LIKE EPISODES)	540000	MTND6 (COMPLEX 1, SUBUNIT ND6, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND6NADH DEHYDROGENASE, SUBUNIT 6)	For all 7 ND Genes: 1100
MELAS SYNDROME (MITOCHONDRIAL MYOPATHY, ENCEPHALOPATHY, LACTIC ACIDOSIS, AND STROKE-LIKE EPISODES)	540000	MTTF (TRANSFER RNA, MITOCHONDRIAL, PHENYLALANINE)	For all 22 tRNA Genes: 850
MELAS SYNDROME (MITOCHONDRIAL MYOPATHY, ENCEPHALOPATHY, LACTIC ACIDOSIS, AND STROKE-LIKE EPISODES)	540000	MTTH (TRANSFER RNA, MITOCHONDRIAL, HISTIDINE)	For all 22 tRNA Genes: 850
MELAS SYNDROME (MITOCHONDRIAL MYOPATHY, ENCEPHALOPATHY, LACTIC ACIDOSIS, AND STROKE-LIKE EPISODES)	540000	MTTK (TRANSFER RNA, MITOCHONDRIAL, LYSINE)	For all 22 tRNA Genes: 850
MELAS SYNDROME (MITOCHONDRIAL MYOPATHY, ENCEPHALOPATHY, LACTIC ACIDOSIS, AND STROKE-LIKE EPISODES)	540000	MTTL1 (TRANSFER RNA, MITOCHONDRIAL, LEUCINE, 1)	For all 22 tRNA Genes: 850
MELAS SYNDROME (MITOCHONDRIAL MYOPATHY, ENCEPHALOPATHY, LACTIC ACIDOSIS, AND STROKE-LIKE EPISODES)	540000	MTTS1 (TRANSFER RNA, MITOCHONDRIAL, SERINE, 1)	For all 22 tRNA Genes: 850
MELAS SYNDROME (MITOCHONDRIAL MYOPATHY, ENCEPHALOPATHY, LACTIC ACIDOSIS, AND STROKE-LIKE EPISODES)	540000	MTTQ (TRANSFER RNA, MITOCHONDRIAL, GLUTAMINE)	For all 22 tRNA Genes: 850
MERRF SYNDROME (MYOCLONIC EPILEPSY ASSOCIATED WITH RAGGED-RED FIBERS)	545000	MTND5 (COMPLEX 1, SUBUNIT ND5, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND5NADH DEHYDROGENASE, SUBUNIT 5)	For all 7 ND Genes: 1100
MERRF SYNDROME (MYOCLONIC EPILEPSY ASSOCIATED WITH RAGGED-RED FIBERS)	545000	MTTF (TRANSFER RNA, MITOCHONDRIAL, PHENYLALANINE)	For all 22 tRNA Genes: 850
MERRF SYNDROME (MYOCLONIC EPILEPSY ASSOCIATED WITH RAGGED-RED FIBERS)	545000	MTTH (TRANSFER RNA, MITOCHONDRIAL, HISTIDINE)	For all 22 tRNA Genes: 850
MERRF SYNDROME (MYOCLONIC EPILEPSY ASSOCIATED WITH RAGGED-RED FIBERS)	545000	MTTK (TRANSFER RNA, MITOCHONDRIAL, LYSINE)	For all 22 tRNA Genes: 850
MERRF SYNDROME (MYOCLONIC EPILEPSY ASSOCIATED WITH RAGGED-RED FIBERS)	545000	MTTL1 (TRANSFER RNA, MITOCHONDRIAL, LEUCINE, 1)	For all 22 tRNA Genes: 850
MERRF SYNDROME (MYOCLONIC EPILEPSY ASSOCIATED WITH RAGGED-RED FIBERS)	545000	MTTS1 (TRANSFER RNA, MITOCHONDRIAL, SERINE, 1)	For all 22 tRNA Genes: 850
MERRF SYNDROME (MYOCLONIC EPILEPSY ASSOCIATED WITH RAGGED-RED FIBERS)	545000	T8356C	150
		A8344G	150
		A8296G	150
		G8363A	150
MULTISYSTEM DISORDER		MTCYB (CYTOCHROME b OF COMPLEX 3, COMPLEX 3, CYTOCHROME b SUBUNITUBIQUINONE-CYTOCHROME c OXIDOREDUCTASE, CYTOCHROME b SUBUNIT)	480
MULTISYSTEM DISORDER		MTTI (TRANSFER RNA, MITOCHONDRIAL, ISOLEUCINE)	For all 22 tRNA Genes: 850
MYELOYDYSPLASTIC SYNDROME		MTTL1 (TRANSFER RNA, MITOCHONDRIAL, LEUCINE, 1)	For all 22 tRNA Genes: 850
MYOGLOBINURIA, RECURRENT		MTCO1 (COMPLEX 4, CYTOCHROME c OXIDASE SUBUNIT 1, CYTOCHROME c OXIDASE 1; COX1)	For all 3 MTCO Genes: 790

MYONEURAL GASTROINTESTINAL ENCEPHALOPATHY SYNDROME » MITOCHONDRIAL NEUROGASTROINTESTINAL ENCEPHALOMYOPATHY SYNDROME, MNGIE SYNDROME		MTTK (TRANSFER RNA, MITOCHONDRIAL, LYSINE)	For all 22 tRNA Genes: 850
MYOPATHY	251900	MTTC (TRANSFER RNA, MITOCHONDRIAL, CYSTEINE)	For all 22 tRNA Genes: 850
MYOPATHY	251900	MTTD (TRANSFER RNA, MITOCHONDRIAL, ASPARTIC ACID)	For all 22 tRNA Genes: 850
MYOPATHY		MTTL1 (TRANSFER RNA, MITOCHONDRIAL, LEUCINE, 1)	For all 22 tRNA Genes: 850
MYOPATHY	251900	MTTL2 (TRANSFER RNA, MITOCHONDRIAL, LEUCINE, 2)	For all 22 tRNA Genes: 850
MYOPATHY	251900	MTTP (TRANSFER RNA, MITOCHONDRIAL, PROLINE)	For all 22 tRNA Genes: 850
MYOPATHY	251900	MTTQ (TRANSFER RNA, MITOCHONDRIAL, GLUTAMINE)	For all 22 tRNA Genes: 850
MYOPATHY	251900	MTTR (TRANSFER RNA, MITOCHONDRIAL, ARGININE)	For all 22 tRNA Genes: 850
MYOPATHY	251900	MTTW (TRANSFER RNA, MITOCHONDRIAL, TRYPTOPHAN)	For all 22 tRNA Genes: 850
MYOPATHY	251900	T618C	150
		A3243T	150
		T3250C	150
		A3251G	150
		C3254G	150
		A3259G	150
		A3261G	150
		A3266G	150
		A3268G	150
		A3288G	150
		A3302G	150
		4370insC	150
		T4409C	150
		G4450A	150
		G5521A	150
		A12320G	150
		G15762A	150
		C15990T	150
MYOPATHY, MYOTONIC DYSTROPHY-LIKE	590000	MTTA (TRANSFER RNA, MITOCHONDRIAL, ALANINE)	For all 22 tRNA Genes: 850
MYOPATHY, WITH DIABETES MELLITUS » MITOCHONDRIAL MYOPATHY, LIPID TYPE	500002	MTTE (TRANSFER RNA, MITOCHONDRIAL, LUTAMIC ACID)	For all 22 tRNA Genes: 850
NARP SYNDROME (NEUROPATHY WITH ATAXIA AND RETINITIS PIGMENTOSA)	551500	MTATP6 (ATP SYNTHASE 6, COMPLEX 5, ATP SYNTHASE, SUBUNIT ATPase 6, ATP6)	MTATP6 and MTATP8: 480
NARP SYNDROME (NEUROPATHY WITH ATAXIA AND RETINITIS PIGMENTOSA)	551500	T8993C	150
		T8993G	150
NEONATAL DEATH		MTTV (TRANSFER RNA, MITOCHONDRIAL, VALINE)	For all 22 tRNA Genes: 850
NEUROGASTROINTESTINAL SYNDROME		MTTW (TRANSFER RNA, MITOCHONDRIAL, TRYPTOPHAN)	For all 22 tRNA Genes: 850
NEUROPSYCHIATRIC DISORDER AND EARLY-ONSET CATARACT		MTTL1 (TRANSFER RNA, MITOCHONDRIAL, LEUCINE, 1)	For all 22 tRNA Genes: 850
NO DISEASE		MTATP8 (ATP SYNTHASE 8, COMPLEX 5, ATP SYNTHASE, SUBUNIT ATPase 8, ATP8)	MTATP6 and MTATP8: 480

NO DISEASE		MTTM (TRANSFER RNA, MITOCHONDRIAL, METHIONINE)	For all 22 tRNA Genes: 850
OBESITY	601665	MTCYB (CYTOCHROME b OF COMPLEX 3, COMPLEX 3, CYTOCHROME b SUBUNITUBIQUINONE-CYTOCHROME c OXIDOREDUCTASE, CYTOCHROME b SUBUNIT)	480
OPHTHALMOPLEGIA		MTTN (TRANSFER RNA, MITOCHONDRIAL, ASPARAGINE)	For all 22 tRNA Genes: 850
PARKINSON DISEASE	168600	MTND1 (COMPLEX 1, SUBUNIT ND1, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND1NADH DEHYDROGENASE, SUBUNIT 1)	For all 7 ND Genes: 1100
PARKINSON DISEASE	168600	MTTP (TRANSFER RNA, MITOCHONDRIAL, PROLINE)	For all 22 tRNA Genes: 850
PARKINSON DISEASE	168600	MTTT (TRANSFER RNA, MITOCHONDRIAL, THREONINE)	For all 22 tRNA Genes: 850
PARKINSONISM / MELAS OVERLAP SYNDROME		MTCYB (CYTOCHROME b OF COMPLEX 3, COMPLEX 3, CYTOCHROME b SUBUNITUBIQUINONE-CYTOCHROME c OXIDOREDUCTASE, CYTOCHROME b SUBUNIT)	480
SEIZURES AND LACTIC ACIDOSIS		MTATP6 (ATP SYNTHASE 6, COMPLEX 5, ATP SYNTHASE, SUBUNIT ATPase 6, ATP6)	MTATP6 and MTATP8: 480
SIDEROBLASTIC ANEMIA, ACQUIRED IDIOPATHIC		MTCO1 (COMPLEX 4, CYTOCHROME c OXIDASE SUBUNIT 1, CYTOCHROME c OXIDASE 1; COX1)	For all 3 MTCO Genes: 790
STRIATONIGRAL DEGENERATION, INFANTILE » BILATERAL STRIATAL NECROSIS, INFANTILE, MITOCHONDRIAL	256000	MTATP6 (ATP SYNTHASE 6, COMPLEX 5, ATP SYNTHASE, SUBUNIT ATPase 6, ATP6)	MTATP6 and MTATP8: 480
SUDDEN INFANT DEATH SYNDROME	272120	MTND1 (COMPLEX 1, SUBUNIT ND1, NADH-UBIQUINONE OXIDOREDUCTASE, SUBUNIT ND1NADH DEHYDROGENASE, SUBUNIT 1)	For all 7 ND Genes: 1100
SUDDEN INFANT DEATH SYNDROME	272120	MTTG (TRANSFER RNA, MITOCHONDRIAL, GLYCINE)	For all 22 tRNA Genes: 850
SUDDEN INFANT DEATH SYNDROME	272120	MTTL1 (TRANSFER RNA, MITOCHONDRIAL, LEUCINE, 1)	For all 22 tRNA Genes: 850
Screening for 9 Mitochondrial Mutations: CPEO (CHRONIC PROGRESSIVE EXTERNAL OPHTHALMOPLEGIA) KEARNS-SAYRE SYNDROME (KSS) LEBER HEREDITARY OPTIC NEUROPATHY (LHON) LEIGH SYNDROME MELAS SYNDROME (MITOCHONDRIAL MYOPATHY, ENCEPHALOPATHY, LACTIC ACIDOSIS, AND STROKE-LIKE EPISODES) MERRF SYNDROME (MYOCLONIC EPILEPSY ASSOCIATED WITH RAGGED-RED FIBERS) NARP SYNDROME (NEUROPATHY WITH ATAXIA AND RETINITIS PIGMENTOSA)		9 Mutations: 4977 bp Deletion, G3460A, G11778A, T8993C, T8993G, A3271G, A3243G, T8356C, A8344G	650

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