

MITOCHONDRIAL TESTING REQUISITION

PATIENT INFORMATION (COMPLETE ONE FORM FOR EACH PERSON TESTED)

Patient Last Name	Patient First Name	MI	Date of Birth (MM/DD/YY)
Address		Accession #	Hospital/ Medical Record #
City	State	Zip	Phone
			Biological Sex: <input type="radio"/> M <input type="radio"/> F <input type="radio"/> Unknown
Gender identity (if different from above):			

REPORTING RECIPIENTS

Ordering Physician	Institution Name
Email (Required for International Clients)	Phone
Fax	Fax
ADDITIONAL RECIPIENTS	
Name	Name
Email	Email
Fax	Fax

PAYMENT (FILL OUT ONE OF THE OPTIONS BELOW)

SELF PAYMENT

Bill Patient For Laboratory Testing

INSTITUTIONAL BILLING

Institution Name	Institution Code	Institution Contact Name	Institution Phone	Institution Contact Email
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INSURANCE

<input type="checkbox"/> Do Not Perform Test Until Patient is Aware of Out-Of-Pocket Costs (excludes prenatal testing)	REQUIRED ITEMS	1. Copy of the Front/Back of Insurance Card(s) 2. ICD10 Diagnosis Code(s) 3. Name of Ordering Physician 4. Insured Signature of Authorization
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Name of Insured	Insured Date of Birth (MM/DD/YY)	Address of Insured
Patient's Relationship to Insured	Phone of Insured	City
State	Zip	
Primary Insurance Co. Name	Primary Insurance Co. Phone	Primary Member Policy #
Secondary Insurance Co. Name	Secondary Insurance Co. Phone	Secondary Member Policy #
		Secondary Member Group #

By signing below, I hereby authorize Baylor Genetics to provide my designated insurance carrier any information necessary, including test results, for processing my insurance claim. I also authorize benefits to be payable exclusively to Baylor Genetics. I understand that my insurance carrier may not approve or reimburse my medical genetic services in full or any portion thereof, due to a variety of reasons, including, but not limited to: the contract status of my insurance provider with Baylor Genetics, usual and customary rate limits, benefit exclusions, coverage limits, lack of authorization, or medical necessity. I understand that I am responsible for any co-pay, co-insurance, and unmet deductible that the insurance policy dictates. I understand that I am responsible for any amounts not paid by my insurance carrier for reasons including, but not limited to, non-covered and non-authorized services. I understand that I am responsible for sending Baylor Genetics, any and all payments that I receive directly from my insurance company in payment for this test. Please note that Medicare does not cover routine screening tests.

Patient's Name	Patient's Signature	Date
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STATEMENT OF MEDICAL NECESSITY (REQUIRED)

This test is medically necessary for the risk assessment, diagnosis, or detection of a disease, illness, impairment, symptom, syndrome, or disorder. The results will determine my patient's medical management and treatment decisions. The person listed as the Ordering Physician is authorized by law to order the test(s) requested herein. I confirm that I have provided genetic testing information to the patient and they have consented to genetic testing.

Physician's Printed Name	Physician's Signature	Date
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MITOCHONDRIAL TESTING REQUISITION

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ETHNICITY

- | | | |
|--------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <input type="radio"/> African American | <input type="radio"/> Mennonite | <input type="radio"/> Southeast Asian (Vietnam, Cambodia, Thailand) |
| <input type="radio"/> Ashkenazi Jewish | <input type="radio"/> Middle Eastern (Saudi Arabia, Qatar, Iraq, Turkey) | <input type="radio"/> Southern European Caucasian (Spain, Italy, Greece) |
| <input type="radio"/> East Asian (China, Japan, Korea) | <input type="radio"/> Native American | <input type="radio"/> Other (Specify) _____ |
| <input type="radio"/> Finnish | <input type="radio"/> Northern European Caucasian (Scandinavian, UK, Germany) | |
| <input type="radio"/> French Canadian | <input type="radio"/> Pacific Islander (Philippines, Micronesia, Malaysia, Indonesia) | |
| <input type="radio"/> Hispanic American | <input type="radio"/> South Asian (India, Pakistan) | |

SAMPLE

SAMPLE TYPE	DATE OF COLLECTION (MM/DD/YY)
<input type="radio"/> Blood in EDTA (Purple-top)	
<input type="radio"/> Cord Blood	
<input type="radio"/> DNA, Extracted from:	
<input type="radio"/> Liver	
<input type="radio"/> Saliva	
<input type="radio"/> Skin Fibroblast Culture	
<input type="radio"/> Skeletal Muscle	
<input type="radio"/> Tissue	

Note: Blood should not be sent from patients who have had a bone marrow transplant or recent blood transfusion

INDICATION FOR TESTING (REQUIRED)

 Symptomatic with Positive Family History

 Symptomatic (Summarize below)

 Asymptomatic

 Population Screening

 Positive Family History

Disease _____ Gene _____ Variant _____

ICD10 Diagnosis Code(s) _____

TESTING OPTIONS

 Targeted Sequencing for Known Familial Mutation
 (If selected, specify test code and gene below and complete section to the right)

Test Code _____ Gene _____

 Full Gene Sequencing

 Deletion/ Duplication Analysis

FOR TARGETED TESTING SELECTION ONLY

Proband Last Name _____ Proband First Name _____

_____ / _____ / _____

Date of Birth (MM/DD/YY) _____ Relationship of Proband to Patient _____

Proband testing location (Select one)

 Baylor Genetics

Lab # _____ Family # _____

 Another laboratory

1. Attach a copy of the Proband test results
2. A positive control sample of the Proband is requested. Please provide, if available.

MITOCHONDRIAL TESTS

MITOCHONDRIAL PANELS

TEST CODE	TEST NAME	SAMPLE TYPE *
<input type="checkbox"/> 2085	Dual Genome Panel by Massively Parallel Sequencing (BCM-MitomeNGS SM)	BE, DNA, SFC, SM
<input type="checkbox"/> 20600	Dual Genome Leigh Disease Panel by Massively Parallel Sequencing (BCM-MitomeNGS SM)	BE, DNA
<input type="checkbox"/> 2055	Comprehensive mtDNA by Massively Parallel Sequencing (BCM-MitomeNGS SM)	BE, DNA, L, SM, T

MASSIVELY PARALLEL SEQUENCING (BCM-MitomeNGSSM) PANELS

TEST CODE	TEST NAME	SAMPLE TYPE *	TEST CODE	TEST NAME	SAMPLE TYPE *
<input type="checkbox"/> 20100	Albinism Panel (13 genes)	BE, DNA	<input type="checkbox"/> 2120	Cobalamin Metabolism Panel + Severe <i>MTHFR</i> Deficiency (20 genes)	BE, DNA
<input type="checkbox"/> 20400	Bardet-Biedl Syndrome Panel (18 genes)	BE, DNA	<input type="checkbox"/> 2625	<i>COL1A1</i> and <i>COL1A2</i> Panel	BE, DNA
<input type="checkbox"/> 2105	Cholestasis Panel (7 genes)	BE, DNA			

* Refer to Sample Specifications Table (Page 9)

Test list continued on next page

MITOCHONDRIAL TESTING REQUISITION

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MASSIVELY PARALLEL SEQUENCING (BCM-MitomeNGSSM) PANELS

TEST CODE	TEST NAME	SAMPLE TYPE *	TEST CODE	TEST NAME	SAMPLE TYPE *
<input type="checkbox"/> 5095	Congenital Disorders of Glycosylation Panel (36 genes)	BE, DNA	<input type="checkbox"/> 2165	Mitochondrial Respiratory Chain Complex III Deficiency Panel (<i>BCS1L, TTC19, UQCRB, and UQCRCQ</i>)	BE, DNA
<input type="checkbox"/> 2100	CoQ10 Deficiency Panel (<i>PDSS1, PDSS2, COQ2, COQ9, and ADCK3(COQ8/CABCT)</i>)	BE, DNA	<input type="checkbox"/> 2170	Mitochondrial Respiratory Chain Complex IV Deficiency Panel (10 genes)	BE, DNA
<input type="checkbox"/> 5260	Developmental Glaucoma Panel (8 genes)	BE, DNA	<input type="checkbox"/> 2175	Mitochondrial Respiratory Chain Complex V Deficiency Panel (<i>ATPAF2, ATP5E, and TMEM70</i>)	BE, DNA
<input type="checkbox"/> 5250	Familial Exudative Vitreoretinopathy Panel (<i>FZD4, LRP5, NDP, and TSPAN12</i>)	BE, DNA	<input type="checkbox"/> 2086	Nuclear Panel (162 genes)	BE, SFC, DNA, SM
<input type="checkbox"/> 2095	Fatty Acid Oxidation Panel (20 genes)	BE, DNA	<input type="checkbox"/> 2180	Mitochondrial Respiratory Chain Complex I-V Panel (50 genes)	BE, DNA
<input type="checkbox"/> 2125	Glycogen Storage Disease (GSD) Panel (23 genes)	BE, DNA	<input type="checkbox"/> 2300	Myopathy/Rhabdomyolysis Panel (25 genes)	BE, DNA
<input type="checkbox"/> 2126	Glycogen Storage Disease (GSD) Muscle Panel (13 genes)	BE, DNA	<input type="checkbox"/> 20200	Nephronophthisis Panel (<i>NPHP1, INVS, NPHP3, NPHP4</i>)	BE, DNA
<input type="checkbox"/> 2127	Glycogen Storage Disease (GSD) Liver Panel (13 genes)	BE, DNA	<input type="checkbox"/> 21400	Noonan Spectrum Disorders Panel (12 genes)	BE, DNA
<input type="checkbox"/> 2200	High Bone Mass Panel (14 genes)	BE, DNA	<input type="checkbox"/> 2185	PDH & Mitochondrial RC Complex V Panel (9 genes)	BE, DNA
<input type="checkbox"/> 21700	Hyperinsulinism Panel (8 genes)	BE, DNA	<input type="checkbox"/> 22100	Peroxisomal Disorders Panel (22 genes)	BE, DNA
<input type="checkbox"/> 21000	Hypoglycemia Panel (85 genes)	BE, DNA	<input type="checkbox"/> 5255	Primary Open Angle Glaucoma Panel (<i>MYOC, OPTN</i>)	BE, DNA
<input type="checkbox"/> 5090	Leber Congenital Amaurosis Panel (19 genes)	BE, DNA	<input type="checkbox"/> 5274	Proximal Urea Cycle Disorders Comprehensive (Seq. & Del/Dup) (<i>CPS1, NAGS, OTC</i>)	BE, DNA
<input type="checkbox"/> 20601	Leigh Disease Panel (82 genes)	BE, DNA	<input type="checkbox"/> 2140	Progressive External Ophthalmoplegia Panel (10 genes)	BE, DNA
<input type="checkbox"/> 2090	Low Bone Mass Panel (23 genes)	BE, DNA	<input type="checkbox"/> 2190	Retinitis Pigmentosa + RPGR orf15 by NGS (66 genes)	BE, DNA
<input type="checkbox"/> 32870	Maple Syrup Urine Disease (MSUD) Panel (<i>BCKHDA, BCKHDB, DBT and DLD</i>)	BE, DNA	<input type="checkbox"/> 2110	Urea Cycle Disorders and Hyperammonemia (8 genes)	BE, DNA
<input type="checkbox"/> 21900	Maturity-Onset Diabetes of the Young (MODY) Panel (25 genes)	BE, DNA	<input type="checkbox"/> 2195	Usher Syndrome Panel (9 genes)	BE, DNA
<input type="checkbox"/> 2130	mtDNA Depletion/Integrity Panel (19 genes)	BE, DNA			
<input type="checkbox"/> 2155	Mitochondrial Respiratory Chain Complex I Deficiency Panel (21 genes)	BE, DNA			
<input type="checkbox"/> 2160	Mitochondrial Respiratory Chain Complex II Deficiency Panel (<i>SDHA, SDHB, SDHC, SDHD, and SDHAF1</i>)	BE, DNA			

DNA COPY NUMBER ANALYSIS

TEST CODE	TEST NAME	SAMPLE TYPE *	SPECIFY GENE OF INTEREST			
<input type="checkbox"/> 3700	mtDNA Content (qPCR) Analysis - Skeletal Muscle	SM				
<input type="checkbox"/> 3720	mtDNA Content (qPCR) Analysis - Liver	L				
<input type="checkbox"/> 2000	MitoMet [®] Plus aCGH Analysis	BE, DNA				
<input type="checkbox"/> 2001	Oligonucleotide Targeted Array Analysis (Single Target Gene)	BE				
<input type="checkbox"/> 2003	Oligonucleotide Targeted Array Analysis (Up to 5 Target Genes)	BE				

MITOCHONDRIAL DNA (mtDNA) RESPIRATORY CHAIN ENZYME TESTS

TEST CODE	TEST NAME	SAMPLE TYPE *
<input type="checkbox"/> 3200	Mitochondrial Respiratory Chain Enzyme Analysis (ETC) - Skeletal Muscle	SM
<input type="checkbox"/> 3210	Mitochondrial Respiratory Chain Enzyme Analysis (ETC) - Skin Fibroblasts	SFC

* Refer to Sample Specifications Table (Page 9)

Test list continued on next page

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MITOCHONDRIAL DNA (mtDNA) MUTATION SCREENS

TEST CODE	TEST NAME	SAMPLE TYPE *
<input type="checkbox"/> 2010	Advanced mtDNA Point Mutations and Deletions by Massively Parallel Sequencing (BCM-MitomeNGS SM)	BE, SM, T

MITOCHONDRIAL DNA (mtDNA) SANGER SEQUENCE ANALYSIS

TEST CODE	TEST NAME	SAMPLE TYPE *
<input type="checkbox"/> 3030	mtDNA Nonsyndromic Hearing Loss and Deafness Mutation Panel	BE, SA, SM, T

SINGLE GENE ANALYSIS

If a test is not found on this form, please obtain the test code from our website (www.BMGL.com) and write in the below space(s).

Test Code _____ Gene _____ Test Code _____ Gene _____ Test Code _____ Gene _____

Test Name _____ Test Name _____ Test Name _____

TEST CODE	TEST NAME	DISORDER	SAMPLE TYPE *
<input type="checkbox"/> 3904	ACAD9 Comprehensive (Seq & Del/Dup Analysis)	ACAD9 Deficiency	BE
<input type="checkbox"/> 2889	ACACA Comprehensive (Seq & Del/Dup Analysis)	Acetyl-CoA Carboxylase Deficiency (ACACA-Related Disorders)	BE
<input type="checkbox"/> 20520	AIFM1 Sequence Analysis	AIFM1 Related Disorders	BE, DNA
<input type="checkbox"/> 29005	APTX Sequence Analysis by NGS	Ataxia, early-onset, with oculomotor apraxia and hypoalbuminemia	BE, DNA
<input type="checkbox"/> 2219	ATP5A1 Comprehensive (Seq & Del/Dup Analysis)	ATP5A1-Related Disorders	BE
<input type="checkbox"/> 3614	TAZ Comprehensive (Seq & Del/Dup Analysis)	Barth Syndrome (TAZ-Related Disorders)	BE
<input type="checkbox"/> 3179	C10orf2 (TWINKLE) Comprehensive (Seq & Del/Dup Analysis)	C10orf2 (TWINKLE)-Related Disorders	BE
<input type="checkbox"/> 3854	CABC1(ADCK3) Comprehensive (Seq & Del/Dup Analysis)	Coenzyme Q10 Deficiency	BE
<input type="checkbox"/> 3419	COQ2 Comprehensive (Seq & Del/Dup Analysis)	Coenzyme Q10 Deficiency	BE
<input type="checkbox"/> 3414	PDSS2 Comprehensive (Seq & Del/Dup Analysis)	Coenzyme Q10 Deficiency	BE
<input type="checkbox"/> 4800	Coenzyme Q10 Analyte Analysis - Skeletal Muscle	Coenzyme Q10 Deficiency	SM
<input type="checkbox"/> 2264	GFMT1 Comprehensive (Seq & Del/Dup Analysis)	Combined Oxidative Phosphorylation Deficiency	BE
<input type="checkbox"/> 3649	TSFM Comprehensive (Seq & Del/Dup Analysis)	Combined Oxidative Phosphorylation Deficiency	BE
<input type="checkbox"/> 2289	MRPS22 Comprehensive (Seq & Del/Dup Analysis)	Combined Oxidative Phosphorylation Deficiency	BE
<input type="checkbox"/> 2224	C12orf65 Comprehensive (Seq & Del/Dup Analysis)	Combined Oxidative Phosphorylation Deficiency	BE
<input type="checkbox"/> 2324	AARS2 Comprehensive (Seq & Del/Dup Analysis)	Combined Oxidative Phosphorylation Deficiency	BE
<input type="checkbox"/> 20555	MRPL3 Sequence Analysis	Combined Oxidative Phosphorylation Deficiency 9	BE, DNA
<input type="checkbox"/> 20565	MTO1 Sequence Analysis	Combined Oxidative Phosphorylation Deficiency 10	BE, DNA
<input type="checkbox"/> 20540	EARS2 Sequence Analysis	Combined Oxidative Phosphorylation Deficiency 12	BE, DNA
<input type="checkbox"/> 2664	FOXRED1 Comprehensive (Seq & Del/Dup Analysis)	Complex I Deficiency	BE
<input type="checkbox"/> 3489	NDUFA1 Comprehensive (Seq & Del/Dup Analysis)	Complex I Deficiency	BE
<input type="checkbox"/> 2684	NDUFA11 Comprehensive (Seq & Del/Dup Analysis)	Complex I Deficiency	BE
<input type="checkbox"/> 3944	NDUFAF1 Comprehensive (Seq & Del/Dup Analysis)	Complex I Deficiency	BE
<input type="checkbox"/> 3539	NDUFAF2 Comprehensive (Seq & Del/Dup Analysis)	Complex I Deficiency	BE
<input type="checkbox"/> 2694	NDUFAF3 Comprehensive (Seq & Del/Dup Analysis)	Complex I Deficiency	BE
<input type="checkbox"/> 2704	NDUFS1 Comprehensive (Seq & Del/Dup Analysis)	Complex I Deficiency	BE
<input type="checkbox"/> 3574	NDUFS3 Comprehensive (Seq & Del/Dup Analysis)	Complex I Deficiency	BE

* Refer to Sample Specifications Table (Page 9)

Test list continued on next page

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SINGLE GENE ANALYSIS

TEST CODE	TEST NAME	DISORDER	SAMPLE TYPE *
<input type="checkbox"/> 3564	NDUFS4 Comprehensive (Seq & Del/Dup Analysis)	Complex I Deficiency	BE
<input type="checkbox"/> 3569	NDUFS6 Comprehensive (Seq & Del/Dup Analysis)	Complex I Deficiency	BE
<input type="checkbox"/> 3849	NDUFS8 Comprehensive (Seq & Del/Dup Analysis)	Complex I Deficiency	BE
<input type="checkbox"/> 3594	NDUFV1 Comprehensive (Seq & Del/Dup Analysis)	Complex I Deficiency	BE
<input type="checkbox"/> 2714	NUBPL Comprehensive (Seq & Del/Dup Analysis)	Complex I Deficiency	BE
<input type="checkbox"/> 3180	SDHA Sequence Analysis	Complex II Deficiency	BE, SA
<input type="checkbox"/> 3185	SDHB Sequence Analysis	Complex II Deficiency	BE, SA
<input type="checkbox"/> 3190	SDHC Sequence Analysis	Complex II Deficiency	BE, SA
<input type="checkbox"/> 3195	SDHD Sequence Analysis	Complex II Deficiency	BE, SA
<input type="checkbox"/> 3679	SDHAF1 Comprehensive (Seq & Del/Dup Analysis)	Complex II Deficiency	BE
<input type="checkbox"/> 3114	BCS1L Comprehensive (Seq & Del/Dup Analysis)	Complex III Deficiency	BE
<input type="checkbox"/> 2719	TTC19 Comprehensive (Seq & Del/Dup Analysis)	Complex III Deficiency	BE
<input type="checkbox"/> 2734	COX4I1 Comprehensive (Seq & Del/Dup Analysis)	Complex IV Deficiency	BE
<input type="checkbox"/> 3104	COX10 Comprehensive (Seq & Del/Dup Analysis)	Complex IV Deficiency	BE
<input type="checkbox"/> 3549	COX15 Comprehensive (Seq & Del/Dup Analysis)	Complex IV Deficiency	BE
<input type="checkbox"/> 3244	LRPPRC Comprehensive (Seq & Del/Dup Analysis)	Complex IV Deficiency	BE
<input type="checkbox"/> 3099	SCO1 Comprehensive (Seq & Del/Dup Analysis)	Complex IV Deficiency	BE
<input type="checkbox"/> 3094	SCO2 Comprehensive (Seq & Del/Dup Analysis)	Complex IV Deficiency	BE
<input type="checkbox"/> 3089	SURF1 Comprehensive (Seq & Del/Dup Analysis)	Complex IV Deficiency	BE
<input type="checkbox"/> 2749	TACO1 Comprehensive (Seq & Del/Dup Analysis)	Complex IV Deficiency	BE
<input type="checkbox"/> 3294	ATP5E Comprehensive (Seq & Del/Dup Analysis)	Complex V Deficiency	BE
<input type="checkbox"/> 3739	TMEM70 Comprehensive (Seq & Del/Dup Analysis)	Complex V Deficiency	BE
<input type="checkbox"/> 3344	TIMM8A Comprehensive (Seq & Del/Dup Analysis)	Deafness-Dystonia-Optic Neuropathy	BE
<input type="checkbox"/> 3079	DGUOK Comprehensive (Seq & Del/Dup Analysis)	DGUOK-Related Disorders	BE
<input type="checkbox"/> 3749	ETHE1 Comprehensive (Seq & Del/Dup Analysis)	Ethylmalonic Encephalopathy	BE
<input type="checkbox"/> 2249	FARS2 Comprehensive (Seq & Del/Dup Analysis)	FARS2-Related Disorders	BE
<input type="checkbox"/> 3559	FASTKD2 Comprehensive (Seq & Del/Dup Analysis)	FASTKD2-Related Disorders	BE
<input type="checkbox"/> 2314	HARS2 Comprehensive (Seq & Del/Dup Analysis)	HARS2-Related Disorders	BE
<input type="checkbox"/> 2329	KARS Comprehensive (Seq & Del/Dup Analysis)	Intermediate Charcot-Marie-Tooth Neuropathy, KARS-Related	BE
<input type="checkbox"/> 2269	ACAT1 Comprehensive (Seq & Del/Dup Analysis)	Ketothiolase Deficiency	BE
<input type="checkbox"/> 20585	SIRT3 Sequence Analysis	Li-Fraumeni Syndrome with Brain Tumor	BE, DNA
<input type="checkbox"/> 3464	DLA Comprehensive (Seq & Del/Dup Analysis)	Maple Syrup Urine Disease Type 3	BE
<input type="checkbox"/> 2229	MARS2 Comprehensive (Seq & Del/Dup Analysis)	MARS2 Related Disorders	BE
<input type="checkbox"/> 20550	MFN2 Sequence Analysis	MFN2 Related Disorders	BE, DNA
<input type="checkbox"/> 20570	NDUFV2 Sequence Analysis	Mitochondrial Complex I Deficiency	BE, DNA
<input type="checkbox"/> 20525	ATP5O Sequence Analysis	Mitochondrial Complex V Deficiency - ATP5O Related	BE, DNA
<input type="checkbox"/> 20615	UQCRC2 Sequence Analysis	Mitochondrial Complex III Deficiency Nuclear Type 5	BE, DNA
<input type="checkbox"/> 20620	UQCRC1 Sequence Analysis	Mitochondrial Complex III Deficiency - UQCRC1 Related	BE, DNA
<input type="checkbox"/> 20560	MTHFD1L Sequence Analysis	Mitochondrial Disorders - MTHFD1L Related	BE, DNA

* Refer to Sample Specifications Table (Page 9)

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MITOCHONDRIAL TESTING REQUISITION

Patient Last Name _____ Patient First Name _____ MI _____ Date of Birth (MM/DD/YY) _____ Biological Sex _____

INDIVIDUAL MITOCHONDRIAL TESTS (LISTED BY DISORDER)

TEST CODE	TEST NAME	DISORDER	SAMPLE TYPE *
<input type="checkbox"/> 20575	<i>POLRMT</i> Sequence Analysis	Mitochondrial Disorders - POLRMT Related	BE, DNA
<input type="checkbox"/> 20590	<i>SIRT5</i> Sequence Analysis	Mitochondrial Disorders - SIRT5 Related	BE, DNA
<input type="checkbox"/> 20595	<i>TOP1MT</i> Sequence Analysis	Mitochondrial Disorders - TOPMT Related	BE, DNA
<input type="checkbox"/> 20610	<i>TRIT1</i> Sequence Analysis	Mitochondrial Disorders - TRIT1 Related	BE, DNA
<input type="checkbox"/> 3964	<i>SUCLG2</i> Comprehensive (Seq & Del/Dup Analysis)	mtDNA Depletion Syndrome, SUCLG2-Related	BE
<input type="checkbox"/> 3074	<i>TK2</i> Comprehensive (Seq & Del/Dup Analysis)	mtDNA Depletion Syndrome, Myopathic Form (TK2-Related Disorders)	BE
<input type="checkbox"/> 29015	<i>FBXL4</i> Sequence Analysis by NGS	mtDNA Depletion Syndrome I3, Encephalomyopathic type	BE, DNA
<input type="checkbox"/> 3064	<i>TYMP</i> Comprehensive (Seq & Del/Dup Analysis)	MNGIE/MNGIE like Syndrome	BE
<input type="checkbox"/> 3324	<i>MPV17</i> Comprehensive (Seq & Del/Dup Analysis)	MPV17-Related Disorders	BE
<input type="checkbox"/> 2294	<i>MRPL44</i> Comprehensive (Seq & Del/Dup Analysis)	MRPL44-Related Disorders	BE
<input type="checkbox"/> 2235	<i>MTFMT</i> Sequence Analysis	MTFMT-Related Disorders	BE, SA
<input type="checkbox"/> 3659	<i>ISCU</i> Comprehensive (Seq & Del/Dup Analysis)	Myopathy with Deficiency of ISCU	BE
<input type="checkbox"/> 3654	<i>PUS1</i> Comprehensive (Seq & Del/Dup Analysis)	Myopathy, Mitochondrial, and Sideroblastic Anemia	BE
<input type="checkbox"/> 3959	<i>YARS2</i> Comprehensive (Seq & Del/Dup Analysis)	Myopathy, Mitochondrial, and Sideroblastic Anemia	BE
<input type="checkbox"/> 29010	<i>GFER</i> Sequence Analysis by NGS	Myopathy, mitochondrial progressive, with congenital cataract, hearing loss, and developmental delay	BE, DNA
<input type="checkbox"/> 2309	<i>NARS2</i> Comprehensive (Seq & Del/Dup Analysis)	NARS2-Related Disorders	BE
<input type="checkbox"/> 33465	<i>OPA1</i> Sequence Analysis by NGS	Optic Atrophy Type 1	BE, SA
<input type="checkbox"/> 3529	<i>OPA3</i> Comprehensive (Seq & Del/Dup Analysis)	Optic Atrophy Type 3	BE
<input type="checkbox"/> 3169	<i>PDHA1</i> Comprehensive (Seq & Del/Dup Analysis)	PDH Complex Deficiency	BE
<input type="checkbox"/> 3899	<i>PDHB</i> Comprehensive (Seq & Del/Dup Analysis)	PDH Complex Deficiency	BE
<input type="checkbox"/> 3894	<i>PDP1</i> Comprehensive (Seq & Del/Dup Analysis)	PDH Complex Deficiency	BE
<input type="checkbox"/> 3924	<i>PDHX</i> Comprehensive (Seq & Del/Dup Analysis)	PDH Complex Deficiency	BE
<input type="checkbox"/> 3919	<i>DLAT</i> Comprehensive (Seq & Del/Dup Analysis)	PDH Complex Deficiency	BE
<input type="checkbox"/> 3069	<i>POLG</i> Comprehensive (Seq & Del/Dup Analysis)	POLG-Related Disorders	BE
<input type="checkbox"/> 3384	<i>POLG2</i> Comprehensive (Seq & Del/Dup Analysis)	POLG2-Related Disorders	BE
<input type="checkbox"/> 3754	<i>PC</i> Comprehensive (Seq & Del/Dup Analysis)	Pyruvate Carboxylase Deficiency	BE
<input type="checkbox"/> 20530	<i>COX6A1</i> Sequence Analysis	Recessive Intermediate D Charcot-Marie-Tooth Disease	BE, DNA
<input type="checkbox"/> 3424	<i>RRM2B</i> Comprehensive (Seq & Del/Dup Analysis)	RRM2B-Related Disorders	BE
<input type="checkbox"/> 20580	<i>SIRT1</i> Sequence Analysis	SIRT1 Related Disorders	BE, DNA
<input type="checkbox"/> 3174	<i>SLC25A4 (ANT1)</i> Comprehensive (Seq & Del/Dup Analysis)	SLC25A4-Related Disorders	BE
<input type="checkbox"/> 5335	<i>SPG7</i> Sequence Analysis	Spastic Paraplegia 7, Autosomal Recessive	BE, SA
<input type="checkbox"/> 3379	<i>SUCLA2</i> Comprehensive (Seq & Del/Dup Analysis)	SUCLA2-Related Disorders	BE
<input type="checkbox"/> 3394	<i>SUCLG1</i> Comprehensive (Seq & Del/Dup Analysis)	SUCLG1-Related Disorders	BE
<input type="checkbox"/> 20545	<i>GFM2</i> Sequence Analysis	Wolcott-Rallison Syndrome	BE, DNA
<input type="checkbox"/> 20535	<i>DNAJC19</i> Sequence Analysis	3-Methylglutaconic Aciduria Type V	BE, DNA

* Refer to Sample Specifications Table (Page 9)

Indications on next page

MITOCHONDRIAL TESTING REQUISITION

Patient Last Name _____ Patient First Name _____ MI _____ / / _____ Date of Birth (MM/DD/YY) _____ Biological Sex _____

INDICATION FOR TESTING (REQUIRED)

- Clinical management of known diagnosis - Please specify: _____
- Diagnostic Testing - Please complete checklist below.

CENTRAL NERVOUS SYSTEM

<input type="radio"/>	101	dd	Developmental Delay/ ID
<input type="radio"/>	102	ht	Hypotonia
<input type="radio"/>	103	au	Autistic Features
<input type="radio"/>	104	enc	Dementia/ Encephalopathy
<input type="radio"/>	105	ha	Headaches/ Migraines
<input type="radio"/>	106	stk	Stroke, Ischemic Episodes
<input type="radio"/>	107	atx	Ataxia
<input type="radio"/>	108	sz	Intractable/ Refractory/Myoclonus/ Myoclonic Seizures
<input type="radio"/>	109	pi	Perinatal Insult
<input type="radio"/>	110	ps	Pyramidal Signs
<input type="radio"/>	111	hp	Hemiparesis
<input type="radio"/>	112	spas	Spasticity
<input type="radio"/>	113	dyst	Dystonia
<input type="radio"/>	114	cho	Chorea
<input type="radio"/>	115	sib	Self-Injury
<input type="radio"/>	116	pan	Pancreatitis
<input type="radio"/>	117	dia	Diarrhea
<input type="radio"/>	118	cst	Constipation
<input type="radio"/>	119	cv	Cyclic Vomiting
<input type="radio"/>	120	pob	Pseudoobstruction

NEUROMUSCULAR

<input type="radio"/>	201	pn	Peripheral Neuropathy
<input type="radio"/>	202	exi	Exercise Intolerance
<input type="radio"/>	203	pmw	Progressive Muscle Weakness
<input type="radio"/>	204	smw	Static Muscle Weakness
<input type="radio"/>	205	cr	Muscle Cramps after Exercise
<input type="radio"/>	206	fat	Easy Fatigability
<input type="radio"/>	207	dcmyo	Dilated Cardiomyopathy
<input type="radio"/>	208	hcmyo	Hypertrophic Cardiomyopathy
<input type="radio"/>	209	hb	Heart Block
<input type="radio"/>	210	ar	Arrhythmia
<input type="radio"/>	211	op	Ophthalmoparesis, CPEO
<input type="radio"/>	212	emg	Abnormal EMG/NCV
<input type="radio"/>	213	pto	Ptosis
<input type="radio"/>	214	eh	Cardiomegaly/Enlarged Heart

FAMILY HISTORY

<input type="radio"/>	001	mut	Mutation (Attach details)
<input type="radio"/>	002	mi	Evidence of Maternal Inheritance

VISCERAL

<input type="radio"/>	301	gir	Gastrointestinal Reflux
<input type="radio"/>	302	dge	Delayed Gastric Emptying
<input type="radio"/>	303	pan	Pancreatitis
<input type="radio"/>	304	dia	Diarrhea
<input type="radio"/>	305	cst	Constipation
<input type="radio"/>	306	cv	Cyclic Vomiting
<input type="radio"/>	307	pob	Pseudoobstruction
<input type="radio"/>	308	hpf	Hepatic Failure
<input type="radio"/>	309	eta	Elevated Transaminases
<input type="radio"/>	310	rtd	Renal Tubular Disease
<input type="radio"/>	311	ap	Apnea/ Hypoventilation
<input type="radio"/>	312	rsf	Respiratory Deficiency/Failure
<input type="radio"/>	313	ren	Renal Dysfunction
<input type="radio"/>	314	lc	Liver Carcinoma
<input type="radio"/>	315	jau	Jaundice
<input type="radio"/>	316	spm	Splenomegaly/Enlarged Spleen
<input type="radio"/>	317	hpm	Hepatomegaly/Enlarged Liver
<input type="radio"/>	318	hd	Hepatic Dysfunction

METABOLITES / METABOLIC

<input type="radio"/>	400	nbs	Abnormal Newborn Screen
<input type="radio"/>	401	kto	Ketosis
<input type="radio"/>	402	dca	Dicarboxylic Aciduria
<input type="radio"/>	403	la	Lactic Acidosis
<input type="radio"/>	404	csfl	High CSF Lactate
<input type="radio"/>	405	oa	Organic Aciduria
<input type="radio"/>	406	lpc	Low Plasma Carnitine
<input type="radio"/>	407	cpk	CPK Abnormalities
<input type="radio"/>	408	pyr	Elevated Pyruvate
<input type="radio"/>	409	ala	Elevated Alanine
<input type="radio"/>	410	3mg	3-Methylglutaconic Aciduria
<input type="radio"/>	411	acid	Acidosis
<input type="radio"/>	412	NH3	Hypoammonemia
<input type="radio"/>	413	hypo	Hypoglycemia
<input type="radio"/>	414	hyper	Hyperglycemia
<input type="radio"/>	415	uco	Unusual Color/Odor

ELECTROPHYSIOLOGY

<input type="radio"/>	801	baers	Abnormal BAERS
<input type="radio"/>	802	vers	Abnormal VERS
<input type="radio"/>	803	eeg	Abnormal EEG

SENSORY

<input type="radio"/>	501	rp	Retinitis Pigmentosa
<input type="radio"/>	502	opa	Optic Atrophy
<input type="radio"/>	503	cat	Cataract
<input type="radio"/>	504	hl	Sensorineural Hearing Loss
<input type="radio"/>	505	trv	Tortuous Retinal Vessels
<input type="radio"/>	506	crs	Cherry Red Spot/Eye
<input type="radio"/>	507	co	Corneal Opacity
<input type="radio"/>	508	el	Ectopia Lentis
<input type="radio"/>	509	pp	Photophobia

ENDOCRINE

<input type="radio"/>	601	db	Diabetes
<input type="radio"/>	602	pd	Exocrine/Pancreatic Deficiency
<input type="radio"/>	603	gf	Gonadal Failure
<input type="radio"/>	604	hth	Hypothyroidism
<input type="radio"/>	605	hpt	Hypoparathyroidism
<input type="radio"/>	606	adr	Hypo/Hyper-adrenal Function
<input type="radio"/>	607	ss	Short Stature
<input type="radio"/>	608	adc	Adrenal Calcification
<input type="radio"/>	609	hf	Hydrops Fetalis
<input type="radio"/>	610	pg	Pregnant

OTHER CLINICAL

<input type="radio"/>	701	ftt	Failure to Thrive
<input type="radio"/>	702	mce	Microcephaly
<input type="radio"/>	703	sids	SIDS/Unexplained Death
<input type="radio"/>	704	ca	Congenital Anomalies
<input type="radio"/>	705	dys	Dysmorphic Features
<input type="radio"/>	706	id	Immunodeficiency
<input type="radio"/>	707	ma	Macrocytic Anemia
<input type="radio"/>	708	pcbm	Pancytopenia/Bone Marrow Failure
<input type="radio"/>	709	np	Neutropenia
<input type="radio"/>	710	mc	Macrocephaly
<input type="radio"/>	711	cf	Course Features
<input type="radio"/>	712	sa	Skeletal Anomalies
<input type="radio"/>	713	art	Arthritis

Indications continued on next page

MITOCHONDRIAL TESTING REQUISITION

Patient Last Name _____ Patient First Name _____ MI _____ Date of Birth (MM/DD/YY) _____ Biological Sex _____

INDICATION FOR TESTING - CONTINUED (REQUIRED)
HAIR/SKIN FINDINGS

<input type="radio"/> 714	rash	Rashes with Hypopigmentation
<input type="radio"/> 715	htii	Hyper Trichosis
<input type="radio"/> 716	alp	Alopecia
<input type="radio"/> 717	ac	Acrocyanosis
<input type="radio"/> 718	ak	Angiokeratoma
<input type="radio"/> 719	ic	Ichthyosis

IMAGING/OTHER STUDIES

<input type="radio"/> 804	bg	Increased Signal Basal Ganglia
<input type="radio"/> 805	dmy	Delayed Myelination
<input type="radio"/> 806	cea	Cerebellar Atrophy
<input type="radio"/> 807	pstk	Posterior Stroke
<input type="radio"/> 808	leuk	Leukodystrophy
<input type="radio"/> 809	mrs1	MRS/Lactate Peak
<input type="radio"/> 810	mri	Abnormal MRI

MUSCLE BIOPSY

<input type="radio"/> 901	his	Abnormal Histology
<input type="radio"/> 902	em	Abnormal Ultrastructure
<input type="radio"/> 903	enz	Abnormal Respiratory Enzymes
<input type="radio"/> 904	prol	Large Mitochondria/Proliferation
<input type="radio"/> 905	cox	COX Deficiency
<input type="radio"/> 906	rrf	Ragged Red Fibers

SAMPLE SPECIFICATIONS TABLE

ABBREVIATION	SAMPLE NAME	RECOMMENDED AMOUNT		SHIPPING INSTRUCTIONS	SPECIAL NOTES
		(2 yrs - Adult)	(Newborn - 2 yrs)		
BE	Blood in EDTA tube (purple-top)	3 - 5 cc	3 - 5 cc	Ship at room temperature in an insulated container by overnight courier. Do not heat or freeze.	
CB	Cord Blood	N/A	1 - 2 cc	Ship at room temperature in an insulated container by overnight courier. Do not heat or freeze.	Ensure properly labeled. Also send 3 cc of maternal blood in properly labeled EDTA tube for MCC studies at no charge as needed.
DNA	DNA, Extracted	10 - 15 ug	10 - 15 ug	Ship at room temperature in an insulated container by overnight courier. Do not heat or freeze.	Minimal concentration of 50ng/uL; A260/A280 of ~1.7
L	Liver	50 mg	50 mg	Ship frozen sample in insulated container, with 3 -5 lbs dry ice, by overnight courier.	Liver should be flash frozen in liquid nitrogen at collection with no media added and stored at -80°C.
SA	Saliva	See Special Notes	See Special Notes	Ship at room temperature in an insulated container by overnight courier. Do not heat or freeze.	Collected with Oragene DNA Self-Collection Kit.
SFC	Skin Fibroblast Culture	(3) T25 flasks	(3) T25 flasks	Ship at ambient temperature in an insulated container by overnight courier.	Send three (3) T25 flasks at approximately 60-80% confluence.
SM	Skeletal Muscle	150 mg	150 mg	Ship frozen sample in insulated container, with 3 -5 lbs dry ice, by overnight courier.	Skeletal Muscle should be flash frozen in liquid nitrogen at collection with no media added, and stored at -80°C.
T	Tissue	50 mg	50 mg	Ship frozen sample in insulated container, with 3 -5 lbs dry ice, by overnight courier.	Tissue should be flash frozen in liquid nitrogen at collection with no media added, and stored at -80°C.