



Athena Diagnostics Client Test Requisition

Client Services is available Monday through Friday from 8:30 AM to 9:00 PM EST at 1.800.394.4493, option 2
If you wish to have Athena Diagnostics bill the insurance company directly, please use the Insurance and Advance Pay Test Requisition.
Please note: Athena Diagnostics must bill hospitals directly for all Medicare hospital inpatient and outpatient testing.

Patient Information

Patient Name _____ Patient ID# (if available) _____
 Date of Birth _____ Sex designated at birth: Male Female
 Street address _____
 City _____ State _____ Zip _____
 Mobile phone #1 _____ Other Phone #2 _____
 Patient email _____
 Language spoken if other than English _____

Who Should Athena Diagnostics Contact with Questions About this Order?

Name _____ Phone _____
 Fax _____ Email _____

Authorized Result Report Recipients Required Physician Information

NPI # _____ Name _____
First Last
 Address _____
 City _____ State _____ Zip _____
 Phone Fax _____ Email _____

Laboratory Information
 CLIA # _____ Lab Name _____
 Address _____
 City _____ State _____ Zip _____
 Phone _____ Fax _____

Ordering Account Information - Hospital/Laboratory Billing Information

(Hospital billing is required for all Medicare patients – both inpatients and outpatients.)

Ordering physician name: _____
 Address _____
 City _____ State _____ Zip _____
 Phone _____ Fax _____ Email _____
 NPI# _____ Athena Account # (if assigned) _____ Reporting preference: Fax Email

Send additional report copies to:

Clinician/Facility _____
 NPI# or CLIA _____
 Address _____
 City _____ State _____ Zip _____
 Phone _____ Fax _____ Email _____
 Athena Account # (if assigned) _____ CLIA # _____
 Purchase Order # (if available) _____ Billing Contact _____
 Email _____ Phone _____ Fax _____
 Hospital/Lab Name _____ Address _____
 City _____ State _____ Zip _____

Test Information

Consult test list for test code, name and acceptable specimen options. Specimen requirements are referenced at the top of the test list.
Call Client Services at 1.800.394.4493, option 2 for additional details.

ICD-10 Codes (required for billing insurance): _____

Test Code	Test Name

Statement of Medical Necessity and Informed Consent:

In accordance with Massachusetts General Law Chapter 111, Section 70G, and New York Civil Rights Law Section 79-1 verification of patient informed consent is required for genetic testing. Additionally, testing laboratories located in Massachusetts require a signed acknowledgment from the ordering medical practitioner. The signed acknowledgment is required to complete the genetic testing ordered if you have not previously signed a blanket Physician Attestation of Informed Consent (PAIC) at any Quest lab.

Prior to ordering genetic testing on the patient listed above, I have obtained a signed, written consent form from the patient (or their authorized representative) as required by applicable state law and/or regulations, and I will maintain all written consent forms as part of the patient file and make them available to Athena Diagnostics upon reasonable request. Many payers (including Medicare and Medicaid) have medical necessity requirements consistent with local state regulatory requirements for the test ordered. I understand I should only order those tests which are medically necessary for the diagnosis and treatment of the patient consistent with local state regulatory requirements for the test ordered. I further confirm this test is medically necessary for the diagnosis or detection of disease, illness, impairment, symptom, syndrome, or disorder and the results will be used in the medical management and treatment decisions for the patient consistent with local state regulatory requirements for the test ordered. I confirm that the person listed in the Ordering Physician space above is authorized by law to order the test(s) requested herein consistent with local state regulatory requirements for the test ordered.

Please sign, date and include your credentialed (MD, DO, NP) to document your intent to order the testing. Please note that if the information is not provided, you may be required to provide medical records and/or progress notes to support intent to order on payor request.

Medical Practitioner Signature: _____ **Date** ____/____/____
Medical Practitioner Credentials: _____

Clinical Information

Clinical diagnosis: _____

Age at Initial Presentation: _____

Ancestral Background (check all that apply):

- | | | | |
|------------------------------------|--|---|---|
| <input type="checkbox"/> African | <input type="checkbox"/> Asian: East | <input type="checkbox"/> Asian: Southeast | <input type="checkbox"/> Central/South American |
| <input type="checkbox"/> Hispanic | <input type="checkbox"/> Native American | <input type="checkbox"/> Ashkenazi Jewish | <input type="checkbox"/> Asian: Indian |
| <input type="checkbox"/> Caribbean | <input type="checkbox"/> European | <input type="checkbox"/> Middle Eastern | <input type="checkbox"/> Pacific Islander |

Other: _____

Indications for genetic testing (please check one):

- | | | |
|---|---|---|
| <input type="checkbox"/> Diagnostic (symptomatic) | <input type="checkbox"/> Predictive (asymptomatic) | <input type="checkbox"/> Prenatal (Contact Athena prior to sending) |
| <input type="checkbox"/> Carrier | <input type="checkbox"/> Family testing/single site | |

Relationship to Proband: _____

If performed at Athena, provide relative's accession # _____.

If performed at another lab, a copy of the relative's report is required.

Please attach detailed medical records and family history information.

Specimen Information

Specimen Type: Date sample obtained: _____/_____/_____

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Whole Blood | <input type="checkbox"/> Serum | <input type="checkbox"/> Cerebrospinal Fluid (CSF) | <input type="checkbox"/> CVS: Cultured |
| <input type="checkbox"/> Amniotic Fluid: Cultured | <input type="checkbox"/> Saliva (Not available for all tests) | | |

DNA* source: _____ Concentration _____ ug/ml

*DNA must be extracted at a CLIA-certified or a laboratory meeting equivalent requirements (as determined by CAP and/or CMS).

Other** source (provide specimen type): _____

Contact Athena **prior to sending specimen types not listed above.

If not collected same day as shipped, how was sample stored? Room temp Refrigerated Frozen

History of blood transfusion or bone marrow transplant? Yes No

Date of most recent transfusion/transplant: _____/_____/_____

Important: Please be sure to write in the test code(s) and test name(s) within the Test Information section on page 1.

Reflexive testing is performed at an additional charge.

The Advance Pay Option is accepted for all Molecular Genetics test codes that do not have an Immunology or STAT component. These test codes will be noted as not qualifying for Advance Pay in the Additional Information (Genes, Antibodies, Comments) Columns below.



MOLECULAR GENETICS SPECIMEN REQUIREMENTS: Specimen Type = Blood, Volume = 8 mL, Tube Type = Lavender Top.
 NOTE1: Saliva is acceptable for most genetic tests. Call Athena at 1-800-394-4493 to order Saliva kits and see the Additional Information Column for exceptions.
 NOTE2: The pediatric minimum is 2 mL for Neurodevelopmental Disorders & Epilepsy.
 NOTE3: Copy Number Variant (CNV) is equivalent to Deletion and Duplication.

IMMUNOLOGY SPECIMEN REQUIREMENTS: Specimen Type = Serum, Volume = 2 mL, Tube Type = Serum Separator Tube.
 Please Refer to the Additional Information (Genes, Antibodies, Comments) Column below for specimen requirement exceptions.

NEUROLOGY GENETIC & IMMUNOLOGY TESTING

Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)	Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)
Cerebrovascular Disease (Stroke): Molecular Genetics			Epilepsy: Molecular Genetics (Continued)		
<input type="checkbox"/> 1175	Notch3 (CADASIL) Sequencing Test		<input type="checkbox"/> 1131	Complete Tuberos Sclerosis Sequencing and CNV Evaluation	Full Sequencing of TSC1 & TSC2
<input type="checkbox"/> 1149	HTRA1 (CARASIL) Sequencing Test		Individual Tuberos Sclerosis single gene tests: Only order single gene tests when not ordering the panel.		
<input type="checkbox"/> 1120	COL4A1 Sequencing Test (CSVD)		<input type="checkbox"/> 1236	TSC1 CNV Test	<input type="checkbox"/> 1254 TSC2 CNV Test
<input type="checkbox"/> 1122	Complete CCM Sequencing and CNV Evaluation		<input type="checkbox"/> 508	TSC1 Deletion Analysis (for NYS Only)	<input type="checkbox"/> 524 TSC2 DNA Deletion Test (for NYS Only)
Individual CCM single gene tests: Only order single gene tests when not ordering the panel.			<input type="checkbox"/> 1245	TSC1 Sequencing Test	<input type="checkbox"/> 1255 TSC2 Sequencing Test
<input type="checkbox"/> 1152	KRIT1 (CCM1) Seq. and CNV Evaluation	<input type="checkbox"/> 1106 CCM2 Seq. and CNV Evaluation	<input type="checkbox"/> 523	TSC Familial DNA Seq. Mutation Evaluation Proband Accession # _____ Relationship _____	
<input type="checkbox"/> 1179	PDCD10 (CCM3) Seq. and CNV Evaluation		<input type="checkbox"/> 1129	SCN1A Seq. and CNV Evaluation	
Dementia: Molecular Genetics			Individual SCN1A tests: <input type="checkbox"/> 1191 SCN1A CNV Test <input type="checkbox"/> 537 SCN1A Deletion Test		
<input type="checkbox"/> 178	ADmark® Alzheimer's Evaluation	Does not qualify for the Advance Pay Option. Molecular Genetics Component(s): ApoE Immunology Component(s): AB42, Phospho-Tau & Total-Tau. Specimen Requirements: Cerebrospinal Fluid (CSF) 2 mL in Polypropylene Tube and must arrive on cold pack or frozen. Whole blood 8 mL (6 mL minimum) in Lavender top (EDTA) tube. Cannot be performed with Saliva sample type.	<input type="checkbox"/> 1133	CSTB (EPM1) Sequencing and Repeat Expansion Evaluation	Cannot be done on saliva.
<input type="checkbox"/> 109	ADmark® ApoE Genotype Analysis & Interpretation (Symptomatic for Dementia)		<input type="checkbox"/> 410	EPM1 DNA Test	Repeat Expansion Testing Cannot be done on saliva.
<input type="checkbox"/> 179	ADmark® Early-Onset Alzheimer's Evaluation	PSEN1, APP Seq./Dup., PSEN2	<input type="checkbox"/> 1036	ARX Seq. and CNV Evaluation (Epilepsy)	
Individual ADmark® Early-Onset Alzheimer's single gene tests: Only order single gene tests when not ordering the panel.			<input type="checkbox"/> 1115	CDKL5 Seq. and CNV Evaluation (Epilepsy)	
<input type="checkbox"/> 168	ADmark® APP DNA Sequencing Test and Duplication Test		<input type="checkbox"/> 4411	SLC2A1 DNA Sequencing Test	
<input type="checkbox"/> 167	ADmark® PSEN1 DNA Sequencing Test		<input type="checkbox"/> 1003	GFAP (Alexander Disease) Seq. Test	
<input type="checkbox"/> 169	ADmark® PSEN2 DNA Sequencing Test		<input type="checkbox"/> 443	POLG DNA Seq. Test (Alpers Syndrome)	
<input type="checkbox"/> 281	Frontotemporal Dementia (FTD) Evaluation	MAPT, GRN, C9orf72	Epilepsy: Immunology		
Individual FTD single gene tests: Only order single gene tests when not ordering the panel.			<input type="checkbox"/> 5120	Autoimmune Epilepsy Evaluation	GAD65, VGKC, CASPR2, LGI1, NMDA
<input type="checkbox"/> 209	C9orf72 (FTD) DNA Test	<input type="checkbox"/> 204 GRN DNA Sequencing Test	Individual Autoimmune Epilepsy single antibody tests: Only order single antibody tests when not ordering the panel.		
<input type="checkbox"/> 205	MAPT DNA Sequencing Test		<input type="checkbox"/> 5103	CASPR2 Autoantibody Test (Epilepsy) (Single)	
Dementia: Immunology			<input type="checkbox"/> 5101	GAD65 Neurological Syndrome Autoantibody Test (Epilepsy) (Single)	
<input type="checkbox"/> 177	ADmark® Phospho-Tau/Total-Tau/AB42 CSF	Analysis & Interpretation (Symptomatic) Specimen Type = Cerebrospinal Fluid (CSF) Volume = 2 mL Tube Type = Polypropylene Tube Must arrive on cold pack or frozen.	<input type="checkbox"/> 5104	LGI1 Autoantibody Test (Epilepsy) (Single)	
<input type="checkbox"/> 1711	Autoimmune Rapidly Progressive Dementia Evaluation with Recombx®		<input type="checkbox"/> 5105	NMDA Receptor Autoantibody Test (Epilepsy) (Single)	
Individual Autoimmune Dementia single antibody tests: Only order single autoantibody tests when not ordering the panel.			<input type="checkbox"/> 5102	VGKC Autoantibody Test (Epilepsy) (Single)	
<input type="checkbox"/> 1714	Recombx® Hu Autoantibody Test*	<input type="checkbox"/> 1716 Recombx® MaTa Autoantibody Test*	Family Testing		
<input type="checkbox"/> 1717	Recombx® CV2 Autoantibody Test*	<input type="checkbox"/> 1718 Recombx® Amphiphysin Autoantibody Test*	<input type="checkbox"/> 185	Familial DNA Sequence Evaluation	This test detects previously identified sequence variants in at-risk family members. For Familial TSC variants, please order Code 523. Proband Accession # _____ Relationship _____
<input type="checkbox"/> 1705	GAD65 Autoantibody Test	<input type="checkbox"/> 1706 NMDA Receptor Autoantibody Test*	Individual Autoimmune Epilepsy single antibody tests: Only order single antibody tests when not ordering the panel.		
<input type="checkbox"/> 1707	VGKC Autoantibody Test	<input type="checkbox"/> 1708 LGI1 Autoantibody Test*	<input type="checkbox"/> 6106	Leukoencephalopathy with Vanishing White Matter Evaluation	EIF2B1, EIF2B2, EIF2B3, EIF2B4, EIF2B5
<input type="checkbox"/> 1709	CASPR2 Autoantibody Test*		Individual Leukoencephalopathy with Vanishing White Matter single gene tests: Only order single gene tests when not ordering the panel.		
* NOTE: Cerebrospinal Fluid (CSF) is an acceptable sample type for these tests.			<input type="checkbox"/> 6101	EIF2B1 DNA Sequencing Test	<input type="checkbox"/> 6102 EIF2B2 DNA Sequencing Test
Epilepsy: Molecular Genetics			<input type="checkbox"/> 6103	EIF2B3 DNA Sequencing Test	<input type="checkbox"/> 6104 EIF2B4 DNA Sequencing Test
<input type="checkbox"/> 6000	Epilepsy Advanced Sequencing and CNV Evaluation		<input type="checkbox"/> 6105	EIF2B5 DNA Sequencing Test	
<input type="checkbox"/> 6018	Developmental Brain Malformations	Test 6000 contains all genes included in the sub-panels.	<input type="checkbox"/> 1183	PLP1 Sequencing and CNV Evaluation	
<input type="checkbox"/> 6023	Epilepsy with Migraine		<input type="checkbox"/> 6108	ABCD1 DNA Sequencing Test	
<input type="checkbox"/> 6010	Epileptic Encephalopathy	NOTE: Only select sub-panels if 6000 is not ordered.	<input type="checkbox"/> 6107	ARSA DNA Sequencing Test	
<input type="checkbox"/> 6008	Generalized, Absence, Focal, Febrile and Myoclonic Epilepsies		<input type="checkbox"/> 6109	GJC2 DNA Sequencing Test	
<input type="checkbox"/> 6038	Infantile Spasms		<input type="checkbox"/> 1175	Notch3(CADASIL) Sequencing Test	
<input type="checkbox"/> 6019	Intellectual Disability	Please see website for the list of genes in each panel. .			
<input type="checkbox"/> 6022	Neuronal Ceroid Lipofuscinosis				
<input type="checkbox"/> 6033	Syndromic Disorders				

Important: Please be sure to write in the test code(s) and test name(s) within the Test Information section on page 1.

Reflexive testing is performed at an additional charge.

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MOLECULAR GENETICS SPECIMEN REQUIREMENTS: Specimen Type = Blood, Volume = 8 mL, Tube Type = Lavender Top.
 NOTE1: Saliva is acceptable for most genetic tests. Call Athena at 1-800-394-4493 to order Saliva kits and see the Additional Information Column for exceptions.
 NOTE2: The pediatric minimum is 2 mL for Neurodevelopmental Disorders & Epilepsy.
 NOTE3: Copy Number Variant (CNV) is equivalent to Deletion and Duplication.

IMMUNOLOGY SPECIMEN REQUIREMENTS: Specimen Type = Serum, Volume = 2 mL, Tube Type = Serum Separator Tube.

Please Refer to the Additional Information (Genes, Antibodies, Comments) Column below for specimen requirement exceptions.

Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)	Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)
Migraine: Molecular Genetics			Movement Disorders: Molecular Genetics (Continued)		
<input type="checkbox"/> 1148	Hemiplegic Migraine Sequencing Evaluation	CACNA1A, ATP1A2, SCN1A	Individual Ataxia single gene DNA Tests: Only order single gene tests when not ordering the panel or sub-panels. <input type="checkbox"/> 401 DRPLA <input type="checkbox"/> 119 FRDA/FXN Expansion <input type="checkbox"/> 348 FRDA/FXN Seq. <input type="checkbox"/> 383 POLG1 (MIRAS) <input type="checkbox"/> 371 SCA1 (ATXN1) <input type="checkbox"/> 672 SCA2 (ATXN2) <input type="checkbox"/> 105 SCA3 (ATXN3) <input type="checkbox"/> 373 SCA6 (CACNA1A) <input type="checkbox"/> 677 SCA7 (ATXN7) <input type="checkbox"/> 384 SCA8 (ATXN8OS) <input type="checkbox"/> 387 SCA10 (ATXN10) <input type="checkbox"/> 285 SCA12 (PPP2R2B) <input type="checkbox"/> 388 SCA17 (TBP) <input type="checkbox"/> 283 TTPA (AVED)		
Individual Hemiplegic Migraine single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 1101 ATP1A2 Sequencing Test <input type="checkbox"/> 1103 CACNA1A Sequencing Test <input type="checkbox"/> 1136 SCN1A Sequencing Test (FHM)			SCA8 and SCA10 test cannot be performed on saliva.		
Motor Neuron Diseases: Molecular Genetics			<input type="checkbox"/> 402	Chorea Differential Evaluation (DRPLA, Huntington's Disease)	Cannot be performed on saliva.
<input type="checkbox"/> 6520	Amyotrophic Lateral Sclerosis Advanced Evaluation	Please see website for the complete list of genes.	<input type="checkbox"/> 116	Huntington Disease Repeat Expansion Test	Cannot be performed on saliva.
<input type="checkbox"/> 6522	Nonprevalent Amyotrophic Lateral Sclerosis Advanced Sequencing Evaluation		<input type="checkbox"/> 639	Isolated Dystonia Evaluation	DYT1, THAP1
<input type="checkbox"/> 670	C9orf72 DNA Test		Individual Isolated Dystonia single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 626 Dystonia (DYT1) DNA Test <input type="checkbox"/> 618 THAP1 DNA Sequencing Test		
<input type="checkbox"/> 620	SOD1 DNA Sequencing Test		<input type="checkbox"/> 629	Complete Dopa-Responsive Dystonia (DYT5) Evaluation	GCH1 Seq., GCH1 Del., TH Seq.
<input type="checkbox"/> 6630	HSP, Comprehensive Evaluation	Please see website for the complete list of genes. Test 6630 contains all genes included in the sub-panels. NOTE: Only select sub-panels if 6630 is not ordered.	Individual Dopa-Responsive Dystonia single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 637 GCH1 DNA Sequencing Test <input type="checkbox"/> 638 GCH1 Deletion Analysis <input type="checkbox"/> 634 TH DNA Sequencing Test		
<input type="checkbox"/> 6601	HSP, Common Sporadic Evaluation	SPAST, SPG7	<input type="checkbox"/> 624	SGCE DNA Sequencing Test	DYT11
<input type="checkbox"/> 6602	HSP, Supplemental Sporadic Evaluation	Please see website for the complete list of genes.	<input type="checkbox"/> 627	SGCE Deletion Analysis	DYT11
<input type="checkbox"/> 6610	HSP, Complete Dominant Evaluation		<input type="checkbox"/> 617	PNKD (MR-1) DNA Sequencing Test	
<input type="checkbox"/> 6611	HSP, Common Dominant Evaluation	SPAST, ATLN, REEP1, KIF5A	<input type="checkbox"/> 588	Complete Parkinsonism Evaluation	LRRK2, PARK2, PINK1, PARK7, SNCA
<input type="checkbox"/> 6612	HSP, Supplemental Dominant Evaluation	BSCL2, HSPD1, KIAA0196, NIPA1, RTN2, SLC33A1	Individual Parkinsonism single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 557 Alpha Synuclein (SNCA) DNA Seq. Test <input type="checkbox"/> 059 Alpha Synuclein (SNCA) Dup./Del. Test <input type="checkbox"/> 558 LRRK2 DNA Sequencing Test <input type="checkbox"/> 559 PARK2 (Parkin) DNA Sequencing Test <input type="checkbox"/> 040 PARK2 (Parkin) Duplication/Deletion Test <input type="checkbox"/> 554 PARK7 (DJ1) DNA Sequencing Test <input type="checkbox"/> 047 PARK7 (DJ1) Deletion Test <input type="checkbox"/> 542 PINK1 DNA Sequencing Test <input type="checkbox"/> 058 PINK1 Deletion Test		
<input type="checkbox"/> 6620	HSP, Complete Recessive Evaluation	Please see website for the complete list of genes.	<input type="checkbox"/> 1187	PRRT2 (Dyskinesia/IC) Seq. Test	
<input type="checkbox"/> 6621	HSP, Common Recessive Evaluation	SPG11, ZFYVE26, SPG7	Multiple Sclerosis/Demyelinating Diseases: Immunology		
<input type="checkbox"/> 6622	HSP, Supplemental Recessive Evaluation	Please see website for the complete list of genes.	<input type="checkbox"/> 1287	NMO Spectrum Evaluation	AQP4, CBA reflex to MOG, CBA
<input type="checkbox"/> 6631	HSP, X-Linked Evaluation	L1CAM, PLP1	<input type="checkbox"/> 1282	Aquaporin-4 (AQP4) (NMO IgG) Antibody, CBA with Reflex to Titer	Cerebrospinal Fluid (CSF) is an acceptable sample type.
<input type="checkbox"/> 6509	SPG4 Evaluation	SPAST	<input type="checkbox"/> 1523	Myelin Oligodendrocyte Glycoprotein (MOG) Antibody, CBA with Reflex to Titer	Cerebrospinal Fluid (CSF) is an acceptable sample type.
Movement Disorders: Molecular Genetics			<input type="checkbox"/> 1284	NMO Spectrum Evaluation	AQP4, ELISA reflex to MOG, CBA
Individual HSP DNA Tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 531 Atlastin <input type="checkbox"/> 632 Paraplegin <input type="checkbox"/> 633 Spatacsin <input type="checkbox"/> 614 ZFYVE26 <input type="checkbox"/> 117 Kennedy's Disease (SBMA) DNA Test			<input type="checkbox"/> 193	Aquaporin-4 (AQP4) Antibody (NMO-IgG), ELISA	
<input type="checkbox"/> 6930	Ataxia, Comprehensive Evaluation	Please see website for the complete list of genes. Test 6930 contains all genes included in the sub-panels. NOTE: Only select sub-panels if 6930 is not ordered. Cannot be performed on saliva.	<input type="checkbox"/> 112	NAbFeron® (INFB-1) Neutralizing Antibody Test	
<input type="checkbox"/> 6900	Ataxia, Complete Dominant Evaluation		<input type="checkbox"/> 197	TYSABRI® (Natalizumab) Antibody Test	See website for collection notes
<input type="checkbox"/> 6901	Ataxia, Common Repeat Expansion Evaluation	Please see website for the complete list of genes. Cannot be performed on saliva.	Myasthenia Gravis: Immunology		
<input type="checkbox"/> 6903	Ataxia, Supplemental Dominant Evaluation		<input type="checkbox"/> 1521	Myasthenia Gravis Panel 2 with Reflex to MuSK Antibody	
<input type="checkbox"/> 6910	Ataxia, Complete Recessive Evaluation		<input type="checkbox"/> 1514	Myasthenia Gravis Panel 2	Includes AChR Binding / Blocking / Modulating Antibody
<input type="checkbox"/> 6911	Ataxia, Supplemental Recessive Evaluation	Please see website for the complete list of genes.	<input type="checkbox"/> 1490	MuSK and LRP4	
<input type="checkbox"/> 6912	Oculomotor Apraxia Ataxia Advanced Sequencing Evaluation	APTX, SETX	<input type="checkbox"/> 1510	Acetylcholine Receptor Binding Antibody with Reflex to Musk Antibody	
<input type="checkbox"/> 6920	Episodic Ataxia Evaluation	CACNB4, KCNA1, SLC1A3, CACNA1A	<input type="checkbox"/> 1511	Acetylcholine Receptor Binding Antibody with Reflex to MuSK/LRP4 Antibodies	
<input type="checkbox"/> 349	Ataxia, Friedreich (FXN) Evaluation	FRDA/FXN Seq., FRDA/FXN Expansion	Individual Myasthenia Gravis single antibody tests: Only order single antibody tests when not ordering the corresponding panel option(s). <input type="checkbox"/> 1513 Acetylcholine Receptor Binding Antibody <input type="checkbox"/> 1483 LRP4 Autoantibody Test <input type="checkbox"/> 1516 Acetylcholine Receptor Blocking Antibody <input type="checkbox"/> 1481 RyR Autoantibody Test <input type="checkbox"/> 1517 Acetylcholine Receptor Modulating Antibody <input type="checkbox"/> 1480 Titin Autoantibody Test <input type="checkbox"/> 482 MuSK Antibody Test		
<input type="checkbox"/> 353	Ataxia-Telangiectasia (ATM) Evaluation	ATM Seq., ATM Dup./Del.			

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 NOTE2: The pediatric minimum is 2 mL for Neurodevelopmental Disorders & Epilepsy.
 NOTE3: Copy Number Variant (CNV) is equivalent to Deletion and Duplication.

IMMUNOLOGY SPECIMEN REQUIREMENTS: Specimen Type = Serum, Volume = 2 mL, Tube Type = Serum Separator Tube.

Please Refer to the Additional Information (Genes, Antibodies, Comments) Column below for specimen requirement exceptions.

Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)	Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)	
Neurodevelopmental Disorders: Molecular Genetics			Neuromuscular Disorders: Molecular Genetics (Continued)			
<input type="checkbox"/> 1186	Primary Microcephaly Sequencing Evaluation	ASPM, MCPH1, WDR62	<input type="checkbox"/> 405	FSHD1 Southern Blot Test	Specimen Type: Whole Blood Specimen Requirements: 10 mL (7 mL minimum) whole blood collected in two (lavender-top) EDTA tubes Sample must be received within 72 hours of collection and refrigerated. Ship sample M-Th only Cannot be performed on saliva or extracted DNA.	
Individual Primary Microcephaly single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 1092 ASPM Sequencing Test <input type="checkbox"/> 1153 MCPH1 Sequencing Test <input type="checkbox"/> 1257 WDR62 Sequencing Test			<input type="checkbox"/> 300	OPMD Repeat Expansion Test	Cannot be performed on saliva.	
<input type="checkbox"/> 1193	SHANK3 Sequencing Test		<input type="checkbox"/> 490	OPA1 DNA Sequencing Test (optic atrophy)	Related to optic atrophy.	
<input type="checkbox"/> 1192	SHANK2 Sequencing Test		Neuro-Oncology: Molecular Genetics			
<input type="checkbox"/> 1190	PTEN Sequencing Test		<input type="checkbox"/> 648	Neurofibromatosis Type 1 (NF1) Evaluation	NF1 Sequencing, NF1 Deletion	
<input type="checkbox"/> 795	Joubert Syndrome Evaluation		Individual NF1 single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 647 Neurofibromatosis Type 1 Deletion Test <input type="checkbox"/> 646 Neurofibromatosis Type 1 DNA Sequencing Test			
Individual Joubert Syndrome single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 790 AHI1 DNA Sequencing Test <input type="checkbox"/> 794 CC2D2A DNA Sequencing Test <input type="checkbox"/> 791 CEP290 DNA Sequencing Test <input type="checkbox"/> 793 NPHP1 DNA Deletion Test <input type="checkbox"/> 789 TMEM216 DNA Sequencing Test <input type="checkbox"/> 792 TMEM67 DNA Sequencing Test			<input type="checkbox"/> 645	Neurofibromatosis Type 2 (NF2) Evaluation	NF2 Seq., NF2 Dup./Del.	
<input type="checkbox"/> 1155	MECP2 Sequencing and CNV Evaluation		Individual NF2 single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 635 Neurofibromatosis Type 2 DNA Sequencing Test <input type="checkbox"/> 644 Neurofibromatosis Type 2 Duplication/Deletion Test			
<input type="checkbox"/> 1114	CDKL5 Seq. and CNV Evaluation (Atypical Rett)		Paraneoplastic & Other Antibody Disorders of the CNS: Immunology			
<input type="checkbox"/> 148	Rett Syndrome (MECP2) Dup./Del. Test		<input type="checkbox"/> 4711	Paraneoplastic Neurological Syndromes Evaluation with Recombx [®] , Initial Assessment	Cerebrospinal Fluid (CSF) is an acceptable sample type. Amphiphysin, CV2, Hu, MaTa, Ri, Yo	
<input type="checkbox"/> 737	Smith-Lemli-Opitz Syndrome (DHCR7) DNA Sequencing Test		<input type="checkbox"/> 4620	NeoComplete Paraneoplastic Evaluation with Recombx [®]	* NOTE: Cerebrospinal Fluid (CSF) is an acceptable sample type	
<input type="checkbox"/> 1256	VPS13B (COH1) Sequencing Test		<input type="checkbox"/> 4640	Paraneoplastic Autoantibody Evaluation with Recombx [®] CSF *		
<input type="checkbox"/> 1038	ARX Seq. and CNV Evaluation (Intellectual Disability)		<input type="checkbox"/> 4724	NeoCerebellar Degeneration Paraneoplastic Profile with Recombx [®]		
<input type="checkbox"/> 1194	SYNGAP1 Sequencing Test		<input type="checkbox"/> 4722	NeoEncephalitis Paraneoplastic Evaluation with Recombx [®]	Please see website for the complete list of antibodies.	
<input type="checkbox"/> 1166	MEF2C Sequencing and CNV Evaluation		<input type="checkbox"/> 4725	NeoSensory Neuropathy Paraneoplastic Profile with Recombx [®]	Cerebrospinal Fluid (CSF) is an acceptable sample type. Amphiphysin, CV2, Hu	
<input type="checkbox"/> 1142	FOXP1 Sequencing and CNV Evaluation		<input type="checkbox"/> 4727	Neuromyotonia Evaluation	CASPR2, VGKC	
Neuromuscular Disorders: Molecular Genetics			Individual antibody Tests: Only order single antibody tests when not ordering the corresponding panel option(s). <input type="checkbox"/> 419 NMDA Receptor Autoantibody Test* <input type="checkbox"/> 4681 Recombx [®] CV2 Autoantibody Test * <input type="checkbox"/> 422 GAD65 Neurological Syndrome Antibody Test <input type="checkbox"/> 4682 Recombx [®] Hu Autoantibody Test * <input type="checkbox"/> 428 Ganglionic AChR Antibody Test <input type="checkbox"/> 4683 Recombx [®] MaTa Autoantibody Test * <input type="checkbox"/> 449 LGI1 Antibody Test* <input type="checkbox"/> 4684 Recombx [®] CAR (Anti-Recoverin) Autoantibody Test * <input type="checkbox"/> 475 VGCC Type P/Q Autoantibody Test (LEMS) <input type="checkbox"/> 485 VGKC Antibody Test <input type="checkbox"/> 4685 Recombx [®] Ri Autoantibody Test * <input type="checkbox"/> 499 CASPR2 Antibody Test* <input type="checkbox"/> 4686 Recombx [®] Yo Autoantibody Test * <input type="checkbox"/> 4674 Recombx [®] Amphiphysin Autoantibody Test * <input type="checkbox"/> 4689 Recombx [®] Zic4 Autoantibody Test *			
<input type="checkbox"/> 5501	Muscular Dystrophy Advanced Evaluation	Please see website for the complete list of genes.	* NOTE: Cerebrospinal Fluid (CSF) is an acceptable sample type for these tests.			
<input type="checkbox"/> 5502	Congenital Muscular Dystrophy Advanced Sequencing Evaluation		Peripheral Neuropathy (Hereditary): Molecular Genetics			
<input type="checkbox"/> 5503	Congenital Myopathy Advanced Sequencing Evaluation		<input type="checkbox"/> 4001 CMT Advanced Evaluation Comprehensive (Reflexive)			
<input type="checkbox"/> 5504	Distal Myopathy Advanced Sequencing Evaluation		Testing is performed in this order: 1. PMP22 Dup./Del. If negative: 2. Cx32, PMP22, MFN2, MPZ, EGR2, LITAF, PRX, GDAP1, RAB7, GARS, NFL, HSPB1, LMNA, FIG4, SH3TC2, DNM2, YARS, FGD4, NDRG1, TRPV4, HSPB8, MTMR2, SBF2 DNA Seq.			
<input type="checkbox"/> 5505	Myofibrillar Myopathy Advanced Sequencing Evaluation		<input type="checkbox"/> 4002 CMT Advanced Evaluation – Dominant, Demyelinating (Reflexive)			
<input type="checkbox"/> 5506	Myotonic Syndromes Advanced Evaluation		Testing is performed in this order: 1. PMP22 Dup./Del. If negative: 2. MPZ, PMP22 Seq., EGR2, LITAF, DNM2, YARS DNA Seq.			
<input type="checkbox"/> 5507	Periodic Paralysis Advanced Sequencing Evaluation	Please see website for the complete list of genes.	<input type="checkbox"/> 4003 CMT Advanced Evaluation – Dominant, Axonal			
<input type="checkbox"/> 5508	Malignant Hyperthermia Advanced Sequencing Evaluation		Please see website for the complete list of genes.			
<input type="checkbox"/> 5511	Congenital Myasthenic Syndrome Advanced Sequencing Evaluation		<input type="checkbox"/> 4004 CMT Advanced Evaluation – Recessive, Demyelinating			
<input type="checkbox"/> 5518	Emery-Dreifuss Muscular Dystrophy Advanced Sequencing Evaluation		<input type="checkbox"/> 4005 CMT Advanced Evaluation – Dominant (Reflexive)			
<input type="checkbox"/> 5519	Limb Girdle Muscular Dystrophy Advanced Evaluation	Individual Limb Girdle Muscular Dystrophy Tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 563 Calpain 3 DNA Sequencing Test <input type="checkbox"/> 584 CAPN3 Duplication/Deletion Test <input type="checkbox"/> 566 CAV3 DNA Sequencing Test <input type="checkbox"/> 562 FKR1 DNA Sequencing Test <input type="checkbox"/> 565 LMNA DNA Sequencing Test <input type="checkbox"/> 582 SGCA Duplication/Deletion Test <input type="checkbox"/> 583 SGCG Duplication/Deletion Test	<input type="checkbox"/> 4006 CMT Advanced Evaluation – Recessive			
Individual Limb Girdle Muscular Dystrophy Tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 563 Calpain 3 DNA Sequencing Test <input type="checkbox"/> 584 CAPN3 Duplication/Deletion Test <input type="checkbox"/> 566 CAV3 DNA Sequencing Test <input type="checkbox"/> 562 FKR1 DNA Sequencing Test <input type="checkbox"/> 565 LMNA DNA Sequencing Test <input type="checkbox"/> 582 SGCA Duplication/Deletion Test <input type="checkbox"/> 583 SGCG Duplication/Deletion Test			Please see website for the complete list of genes.			
<input type="checkbox"/> 5530	DMD Evaluation		Individual DMD Evaluation single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 183 DMD DNA Sequencing Test <input type="checkbox"/> 5531 DMD Duplication/Deletion Test			
<input type="checkbox"/> 207	Early-Onset Myotonia Evaluation		DM1, CLCN1, SCN4A Cannot be performed on saliva.	Individual Early-Onset Myotonia single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 128 CLCN1 DNA Sequencing Test <input type="checkbox"/> 146 SCN4A (Myotonia) DNA Sequencing Test		
Individual Early-Onset Myotonia single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 128 CLCN1 DNA Sequencing Test <input type="checkbox"/> 146 SCN4A (Myotonia) DNA Sequencing Test			<input type="checkbox"/> 108 DMPK DNA Test (DM1)			
<input type="checkbox"/> 108	DMPK DNA Test (DM1)	Cannot be performed on saliva.	<input type="checkbox"/> 110 CNBP DNA Test (DM2) (DM2 testing is not recommended for patients with early onset myotonic dystrophy)			
<input type="checkbox"/> 110	CNBP DNA Test (DM2) (DM2 testing is not recommended for patients with early onset myotonic dystrophy)	Cannot be performed on saliva.	<input type="checkbox"/> 585 CAPN3 Evaluation			
<input type="checkbox"/> 585	CAPN3 Evaluation	Includes CAPN3 Seq., CAPN3 Del.	<input type="checkbox"/> 571 Dysferlin DNA Sequencing Test			
<input type="checkbox"/> 571	Dysferlin DNA Sequencing Test					

Important: Please be sure to write in the test code(s) and test name(s) within the Test Information section on page 1.

Reflexive testing is performed at an additional charge.

The Advance Pay Option is accepted for all Molecular Genetics test codes that do not have an Immunology or STAT component. These test codes will be noted as not qualifying for Advance Pay in the Additional Information (Genes, Antibodies, Comments) Columns below.



MOLECULAR GENETICS SPECIMEN REQUIREMENTS: Specimen Type = Blood, Volume = 8 mL, Tube Type = Lavender Top.
 NOTE1: Saliva is acceptable for most genetic tests. Call Athena at 1-800-394-4493 to order Saliva kits and see the Additional Information Column for exceptions.
 NOTE2: The pediatric minimum is 2 mL for Neurodevelopmental Disorders & Epilepsy.
 NOTE3: Copy Number Variant (CNV) is equivalent to Deletion and Duplication.

IMMUNOLOGY SPECIMEN REQUIREMENTS: Specimen Type = Serum, Volume = 2 mL, Tube Type = Serum Separator Tube.

Please Refer to the Additional Information (Genes, Antibodies, Comments) Column below for specimen requirement exceptions.

Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)	Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)			
Peripheral Neuropathy (Hereditary): Molecular Genetics (Continued)			Peripheral Neuropathy (Autoimmune): Immunology					
<input type="checkbox"/>	4007 CMT Advanced Evaluation – Demyelinating (Reflexive)	Testing is performed in this order: 1. PMP22 Dup./Del. If negative: 2. Cx32, MPZ, PMP22 Seq., EGR2, LITAF, PRX, GDAP1, DNM2, YARS, SH3TC2, MTMR2, NDRG1, FGD4, FIG4, SBF2 DNA Seq	<input type="checkbox"/>	3100 SensoriMotor Neuropathy Profile with Recombx® - Complete	GM1 Quattro®, MAG 'Dual Antigen'®, Hu, GALOPTM, Sulfatide			
<input type="checkbox"/>	4008 CMT Advanced Evaluation – Axonal	Please see website for the complete list of genes.	<input type="checkbox"/>	3148 Sensory Neuropathy Profile with Recombx®	(MAG 'Dual Antigen'®, Hu, GALOPTM, Sulfatide)			
<input type="checkbox"/>	4010 CMT Advanced Evaluation – Initial Genetic Assessment		<input type="checkbox"/>	3163 Motor Neuropathy Profile - Complete	GM1 Quattro®, MAG 'Dual Antigen'®			
<input type="checkbox"/>	4011 CMT Advanced Evaluation – Nonprevalent Axonal		<input type="checkbox"/>	289 Multifocal Motor Neuropathy Evaluation	Requires both Serum and whole blood. GM1 Quattro®, PMP22 Dup./Del.			
<input type="checkbox"/>	4012 CMT Advanced Evaluation – Nonprevalent Demyelinating		<input type="checkbox"/>	3155 Co-GM1 Quattro® Autoantibody Test	(Asialo, GD1a, GD1b and GM1)			
<input type="checkbox"/>	4013 CMT Advanced Evaluation – Nonprevalent		Individual Peripheral Neuropathy antibody tests: Only order the single antibody tests when not ordering the corresponding panel option(s).					
Individual CMT single gene tests: Only order single gene tests when not ordering the panel or sub-panels.			<input type="checkbox"/>	3127 MAG 'Dual Antigen'® Autoantibody Test	<input type="checkbox"/>	272 Asialo Autoantibody Test		
<input type="checkbox"/>	143 CX32 Seq./Del. (CMTX)	<input type="checkbox"/>	253 DNM2	<input type="checkbox"/>	261 GALOP™ Autoantibody Test	<input type="checkbox"/>	273 GD1b Autoantibody Test	
<input type="checkbox"/>	208 FGD4	<input type="checkbox"/>	225 FIG4 (CMT4J)	<input type="checkbox"/>	210 Sulfatide Autoantibody Test	<input type="checkbox"/>	271 GM1 Autoantibody Test	
<input type="checkbox"/>	221 GDAP1 (CMT2K, 4A)	<input type="checkbox"/>	229 HSPB1 (CMT2F)	<input type="checkbox"/>	160 GQ1b Autoantibody Test	<input type="checkbox"/>	4682 Recombx® Hu Autoantibody Test *	
<input type="checkbox"/>	222 LITAF/SIMPLE (CMT1C)	<input type="checkbox"/>	226 LMNA (CMT2B1, 4C1)	<input type="checkbox"/>	278 GD1a Autoantibody Test	* NOTE: Cerebrospinal Fluid (CSF) is an acceptable sample type for these tests.		
<input type="checkbox"/>	134 MPZ (CMT1B, 2I, 2J)	<input type="checkbox"/>	354 MTMR2	<input type="checkbox"/>	394 NDRG1			
<input type="checkbox"/>	249 NFL (CMT2E, 1F)	<input type="checkbox"/>	131 PMP22 Dup./Del. (CMT1A)	<input type="checkbox"/>	247 PMP22 Seq.			
<input type="checkbox"/>	239 PRX (CMT4F)	<input type="checkbox"/>	227 RAB7A (CMT2B)	<input type="checkbox"/>	164 SBF2			
<input type="checkbox"/>	224 SH3TC2 (CMT4C)	<input type="checkbox"/>	144 TRPV4					
<input type="checkbox"/>	235 TTR DNA Sequencing Test	<input type="checkbox"/>	468 YARS					
<input type="checkbox"/>	691 Early-Onset HSAN Evaluation	NTRK1 and WNK1						
<input type="checkbox"/>	243 Complete HNPP Evaluation	PMP22 Sequencing, PMP22 Dup./Del.						
<input type="checkbox"/>	245 Congenital Hypomyelination Evaluation	MPZ, EGR2						
<input type="checkbox"/>	296 Entrapment Neuropathy Evaluation	PMP22 Seq., PMP22 Dup./Del., TTR						
Peripheral Neuropathy (Hereditary Sensory Autonomic Neuropathy): Molecular Genetics			Spinal Muscular Atrophy (SMA): Molecular Genetics					
Individual Early-Onset HSAN single gene tests: Only order single gene tests when not ordering the panel.			<input type="checkbox"/>	5056 SMA Carrier Screen (New York)	Does not qualify for the Advance Pay Option. Test Codes are for New York State Clients ordering SMA testing.			
<input type="checkbox"/>	659 NTRK1 (HSAN IV) DNA Sequencing Test	<input type="checkbox"/>	553 WNK1 (HSAN II) DNA Sequencing Test	<input type="checkbox"/>	5026 SMA Diagnostic (New York)	4 mL (2 mL minimum) whole blood collected in an EDTA (lavender-top) tube.		
<input type="checkbox"/>	698 Late-Onset HSAN Evaluation		SPTLC1 and SPTLC2	<input type="checkbox"/>	5070 SMA Plus (New York)	Pediatric (0-3 years): 2 mL (1 mL minimum).		
Individual Late-Onset HSAN single gene tests: Only order single gene tests when not ordering the panel.			<input type="checkbox"/>	214 SMA Plus (Reflexive)	Does not qualify for the Advance Pay Option. Test 214 includes 111 with reflex to 211.			
<input type="checkbox"/>	551 SPTLC1 (HSAN I) DNA Sequencing Test	<input type="checkbox"/>	552 SPTLC2 (HSAN I) DNA Sequencing Test	<input type="checkbox"/>				111 Spinal Muscular Atrophy-Diagnostic
<input type="checkbox"/>	660 ATL1 (HSAN I) DNA Sequencing Test		<input type="checkbox"/>	444 Spinal Muscular Atrophy-Carrier				
<input type="checkbox"/>	719 SEPT9 (HNA) DNA Sequencing Test		<input type="checkbox"/>	211 Spinal Muscular Atrophy - SMN1 DNA Sequencing Test				
			<input type="checkbox"/>	6521 Atypical SMA Advanced Sequencing Evaluation				

RENAL GENETIC TESTING

Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)	Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)		
Alport Syndrome: Molecular Genetics			Hereditary Renal Tubular Disorders: Molecular Genetics				
<input type="checkbox"/>	759 Complete Alport Syndrome Evaluation	COL4A3,4,5 DNA Sequencing; COL4A5 Deletion Test	<input type="checkbox"/>	767 Hereditary Renal Tubular Disorders Evaluation	SLC12A1, KCNJ1, CLCNKB, BSND, SLC12A3		
Individual Alport Syndrome single gene tests: Only order single gene tests when not ordering the panel.			Individual Hereditary Renal Tubular Disorder single gene tests: Only order single gene tests when not ordering the panel.				
<input type="checkbox"/>	757 COL4A3 DNA Sequencing Test	<input type="checkbox"/>	758 COL4A4 DNA Sequencing Test	<input type="checkbox"/>	765 BSND DNA Sequencing Test	<input type="checkbox"/>	764 CLCNKB DNA Sequencing Test
<input type="checkbox"/>	756 COL4A5 Deletion Analysis	<input type="checkbox"/>	755 COL4A5 Sequencing and Deletion Analysis	<input type="checkbox"/>	763 KCNJ1 DNA Sequencing Test	<input type="checkbox"/>	762 SLC12A1 DNA Sequencing Test
Amyloidosis: Molecular Genetics			<input type="checkbox"/>	766 SLC12A3 DNA Sequencing Test			
<input type="checkbox"/>	235 TTR DNA Sequencing Test						
Bardet-Biedl Syndrome: Molecular Genetics			Monogenic Hypertension: Molecular Genetics				
<input type="checkbox"/>	887 Bardet-Biedl Syndrome Evaluation	BBS1, BBS2, BBS10	<input type="checkbox"/>	749 Monogenic Hypertension Evaluation	SCNN1B, SCNN1G, CYP11B1, HSD11B2		
Individual Bardet-Biedl Syndrome single gene tests: Only order single gene tests when not ordering the panel.			<input type="checkbox"/>	747 Liddle's Syndrome Evaluation	SCNN1B, SCNN1G		
<input type="checkbox"/>	871 BBS1 (BBS) DNA Sequencing Test	<input type="checkbox"/>	872 BBS2 (BBS) DNA Sequencing Test	<input type="checkbox"/>	748 Pseudohypaldosteronism Type 1 Evaluation	SCNN1A, SCNN1B, SCNN1G	
<input type="checkbox"/>	886 BBS10 (BBS) DNA Sequencing Test						
Family Testing			Individual Monogenic Hypertension single gene tests: Only order single gene tests when not ordering the panel.				
<input type="checkbox"/>	185 Familial DNA Sequence Evaluation	This test detects previously identified sequence variants in at-risk family members. For Familial PKD1 and PKD2 variants, please order Code 728.	<input type="checkbox"/>	779 CYP11B1/CYP11B2 Chimeric Gene Fusion Test	<input type="checkbox"/>	775 HSD11B2 DNA Sequencing Test	
Proband Accession # _____			<input type="checkbox"/>	774 CYP11B1 DNA Sequencing Test	<input type="checkbox"/>	772 SCNN1A DNA Sequencing Test	
Relationship _____			<input type="checkbox"/>	777 SCNN1A DNA Sequencing Test	<input type="checkbox"/>	745 SCNN1B DNA Sequencing Test	
			<input type="checkbox"/>	746 SCNN1G DNA Sequencing Test			

Important: Please be sure to write in the test code(s) and test name(s) within the Test Information section on page 1.

Reflexive testing is performed at an additional charge.

The Advance Pay Option is accepted for all Molecular Genetics test codes that do not have an Immunology or STAT component. These test codes will be noted as not qualifying for Advance Pay in the Additional Information (Genes, Antibodies, Comments) Columns below.



MOLECULAR GENETICS SPECIMEN REQUIREMENTS: Specimen Type = Blood, Volume = 8 mL, Tube Type = Lavender Top.
 NOTE1: Saliva is acceptable for most genetic tests. Call Athena at 1-800-394-4493 to order Saliva kits and see the Additional Information Column for exceptions.
 NOTE2: The pediatric minimum is 2 mL for Neurodevelopmental Disorders & Epilepsy.
 NOTE3: Copy Number Variant (CNV) is equivalent to Deletion and Duplication.

IMMUNOLOGY SPECIMEN REQUIREMENTS: Specimen Type = Serum, Volume = 2 mL, Tube Type = Serum Separator Tube.

Please Refer to the Additional Information (Genes, Antibodies, Comments) Column below for specimen requirement exceptions.

Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)	Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)
Nephrogenic Diabetes Insipidus: Molecular Genetics			Other Cystic Diseases: Molecular Genetics		
<input type="checkbox"/>	854 Nephrogenic Diabetes Insipidus Evaluation	AVPR2, AQP2	<input type="checkbox"/>	1131 Complete Tuberos Sclerosis Sequencing and CNV Evaluation	TSC1 & TSC2
Individual Nephrogenic Diabetes Insipidus single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 852 AQP2 DNA Sequencing Test <input type="checkbox"/> 851 AVPR2 DNA Sequencing Test			Individual Tuberos Sclerosis single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 1236 TSC1 CNV Test <input type="checkbox"/> 1254 TSC2 CNV Test <input type="checkbox"/> 508 TSC1 Deletion Analysis (for NYS Only) <input type="checkbox"/> 524 TSC2 DNA Deletion Test (for NYS Only) <input type="checkbox"/> 1245 TSC1 Sequencing Test <input type="checkbox"/> 1255 TSC2 Sequencing Test		
Nephronophthisis: Molecular Genetics			<input type="checkbox"/>	523 TSC Familial Mutation Evaluation Proband Accession # _____ Relationship _____	
<input type="checkbox"/>	750 NPHP1 Deletion Test (Familial Juvenile Nephronophthisis)		<input type="checkbox"/>	770 Hereditary Interstitial Kidney Disease (UMOD) DNA Sequencing Test	
Nephrotic Syndrome: Molecular Genetics			Renal Cancer: Molecular Genetics		
<input type="checkbox"/>	722 Early Onset Nephrotic Syndrome Evaluation	PLCE1, LAMB2, WT1, NPHS1, NPHS2	<input type="checkbox"/>	889 Pheochromocytoma Evaluation	RET, VHL, SDHB
Individual Early Onset Nephrotic Syndrome tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 711 ACTN4 DNA Sequencing Test <input type="checkbox"/> 712 TRPC6 DNA Sequencing Test <input type="checkbox"/> 718 PLCE1 DNA Sequencing Test <input type="checkbox"/> 713 WT1 DNA Sequencing Test <input type="checkbox"/> 714 LAMB2 DNA Sequencing Test <input type="checkbox"/> 710 NPHS2 DNA Sequencing Test <input type="checkbox"/> 730 NPHS1 DNA Sequencing Test			Individual Pheochromocytoma single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 813 MEN2 (RET) DNA Sequencing Test <input type="checkbox"/> 888 SDHB DNA Sequencing Test <input type="checkbox"/> 858 von Hippel-Lindau Syndrome (VHL) DNA Sequencing Test <input type="checkbox"/> 818 MEN1 DNA Sequencing Test		
<input type="checkbox"/>	717 Focal and Segmental Glomerulosclerosis (FSGS) Evaluation	INF2, ACTN4, TRPC6, NPHS2	Renal Cysts and Diabetes: Molecular Genetics		
Individual FSGS single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 716 INF2 DNA Sequencing Test <input type="checkbox"/> 710 NPHS2 DNA Sequencing Test			<input type="checkbox"/>	776 HNF1B DNA Sequencing and Deletion Evaluation (RCAD)	
Polycystic Kidney Disease: Molecular Genetics			Rickets: Molecular Genetics		
<input type="checkbox"/>	728 PKDx* Familial Mutation Evaluation Proband Accession # _____ Relationship _____	Does not qualify for the Advance Pay Option. PKD1 and PKD2 Variants	<input type="checkbox"/>	857 Hypophosphatemic Rickets Evaluation	PHEX, FGF23
<input type="checkbox"/>	8100 Complete PKDx Evaluation	Does not qualify for the Advance Pay Option.	Individual Hypophosphatemic Rickets single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 856 FGF23 (Hypophosphatemic Rickets) DNA Sequencing Test <input type="checkbox"/> 855 PHEX (Hypophosphatemic Rickets) DNA Sequencing Test		
Individual PKDx single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 8105 PKD1 Deletion Test <input type="checkbox"/> 8101 PKD1 DNA Sequencing and Deletion Evaluation <input type="checkbox"/> 8103 PKD1 DNA Sequencing Test <input type="checkbox"/> 8106 PKD2 Deletion Test <input type="checkbox"/> 8102 PKD2 DNA Sequencing and Deletion Evaluation <input type="checkbox"/> 8104 PKD2 DNA Sequencing Test			Individual Congenital Hyperinsulinism single gene tests: Only order single gene tests when not ordering the panel. Single gene tests for the CH Panel, do not qualify for the Advance Pay Option. <input type="checkbox"/> 822 GLUD1 (CHI) DNA Sequencing Test <input type="checkbox"/> 823 GCK (CHI) DNA Sequencing Test <input type="checkbox"/> 826 KCNJ11 (CHI) DNA Sequencing Test <input type="checkbox"/> 827 ABCC8 (CHI) DNA Sequencing Test		

ENDOCRINE GENETIC TESTING

Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)	Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)
Adrenal Disorders: Molecular Genetics			Bone Diseases: Molecular Genetics (Continued)		
<input type="checkbox"/>	816 Primary Adrenal Insufficiency Evaluation	ABCD1, NR0B1, AIRE	Individual Hypophosphatemic Rickets single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 856 FGF23 (Hypophosphatemic Rickets) DNA Sequencing Test <input type="checkbox"/> 855 PHEX (Hypophosphatemic Rickets) DNA Sequencing Test		
Individual Primary Adrenal Insufficiency single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 815 ABCD1 (Adrenoleukodystrophy) DNA Sequencing Test <input type="checkbox"/> 812 Autoimmune Polyglandular Syndrome (AIRE) Evaluation <input type="checkbox"/> 814 NR0B1 (Adrenal Hypoplasia Congenita) DNA Sequencing Test			<input type="checkbox"/>	811 LRP5 (OPPG) DNA Sequencing Test	
<input type="checkbox"/>	879 Congenital Adrenal Hyperplasia (CAH) Evaluation	Includes CYP21A2 sequencing and deletion, CYP11B1 sequencing	<input type="checkbox"/>	821 LRP5 Idiopathic Osteoporosis (IOP) DNA Sequencing Test	
Individual CAH single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 875 CYP11B1 (CAH) DNA Sequencing Test <input type="checkbox"/> 880 CYP21A2 (CAH) Evaluation <input type="checkbox"/> 1180 CYP21A2 Deletion Only Test			Congenital Hyperinsulinism: Molecular Genetics		
Required for tests 879, 880, 875: Indication for Study (check one or more below): <input type="checkbox"/> Family history of CAH <input type="checkbox"/> Virilization (ambiguous genitalia) <input type="checkbox"/> Salt Wasting <input type="checkbox"/> Parent/sibling of CAH patient <input type="checkbox"/> 17-hydroxyprogesterone (17-OHP) elevated concentration in serum <input type="checkbox"/> Other _____			<input type="checkbox"/>	819 Congenital Hyperinsulinism Evaluation	Does not qualify for the Advance Pay Option. GLUD1, GCK, KCNJ11, ABCC8 Indication for Study (check one or more below): <input type="checkbox"/> Diazoxide Responsive <input type="checkbox"/> Diazoxide Non-Responsive <input type="checkbox"/> Hypoglycemic <input type="checkbox"/> Large for Gestational Age (LGA) <input type="checkbox"/> Other (describe) _____
<input type="checkbox"/>	877 CYP17A1 DNA Sequencing Test		Individual Congenital Hyperinsulinism single gene tests: Only order single gene tests when not ordering the panel.		
<input type="checkbox"/>	881 Endocrine Hypertension (HSD11B2) Evaluation		Single gene tests for the CH Panel, do not qualify for the Advance Pay Option. <input type="checkbox"/> 822 GLUD1 (CHI) DNA Sequencing Test <input type="checkbox"/> 823 GCK (CHI) DNA Sequencing Test <input type="checkbox"/> 826 KCNJ11 (CHI) DNA Sequencing Test <input type="checkbox"/> 827 ABCC8 (CHI) DNA Sequencing Test		
<input type="checkbox"/>	878 HSD3B2 DNA Sequencing Test		<input type="checkbox"/> 42 CH Parental Testing – To augment child/proband diagnosis		
<input type="checkbox"/>	874 Lipoid CAH (STAR) DNA Sequencing Test		Does not qualify for the Advance Pay Option. For expedited diagnosis of proband, send parental testing samples as soon as possible and provide information below. <input type="checkbox"/> Mother <input type="checkbox"/> Father Proband Name/Accession # _____		
Bone Diseases: Molecular Genetics					
<input type="checkbox"/>	860 Osteogenesis Imperfecta Evaluation	COL1A1, COL1A2			
Individual Osteogenesis Imperfecta single gene tests: Only order single gene tests when not ordering the panel. <input type="checkbox"/> 861 COL1A1 (OI) DNA Sequencing Test <input type="checkbox"/> 862 COL1A2 (OI) DNA Sequencing Test					
<input type="checkbox"/>	857 Hypophosphatemic Rickets Evaluation	PHEX, FGF23			

Important: Please be sure to write in the test code(s) and test name(s) within the Test Information section on page 1.

Reflexive testing is performed at an additional charge.

The Advance Pay Option is accepted for all Molecular Genetics test codes that do not have an Immunology or STAT component. These test codes will be noted as not qualifying for Advance Pay in the Additional Information (Genes, Antibodies, Comments) Columns below.



MOLECULAR GENETICS SPECIMEN REQUIREMENTS: Specimen Type = Blood, Volume = 8 mL, Tube Type = Lavender Top.
 NOTE1: Saliva is acceptable for most genetic tests. Call Athena at 1-800-394-4493 to order Saliva kits and see the Additional Information Column for exceptions.
 NOTE2: The pediatric minimum is 2 mL for Neurodevelopmental Disorders & Epilepsy.
 NOTE3: Copy Number Variant (CNV) is equivalent to Deletion and Duplication.

IMMUNOLOGY SPECIMEN REQUIREMENTS: Specimen Type = Serum, Volume = 2 mL, Tube Type = Serum Separator Tube.

Please Refer to the Additional Information (Genes, Antibodies, Comments) Column below for specimen requirement exceptions.

Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)	Test Code	Test Name	Additional Information (Genes, Antibodies, Comments)
Diabetes: Molecular Genetics			Noonan Syndrome: Molecular Genetics		
<input type="checkbox"/> 885	Monogenic Diabetes (MODY) Five-Gene Evaluation	HNF1A (TCF1), GCK, HNF4A, HNF1B (TCF2), IPF1	<input type="checkbox"/> 846	Noonan Syndrome (PTPN11) DNA Sequencing Test	
<input type="checkbox"/> 8800	Monogenic Diabetes (MODY) Four-Gene Evaluation	HNF1A (TCF1), GCK, HNF4A, HNF1B (TCF2)	<input type="checkbox"/> 658	KRAS/RAF1/SOS1 DNA Sequencing Evaluation	SOS1, RAF1, KRAS
<input type="checkbox"/> 8801	Monogenic Diabetes (MODY) Three-Gene Evaluation	HNF1A (TCF1), GCK, HNF1B (TCF2)	Individual KRAS/RAF1/SOS1 single gene tests: Only order single gene tests when not ordering the panel.		
<input type="checkbox"/> 8802	Monogenic Diabetes (MODY) Two-Gene Evaluation	HNF1A (TCF1), GCK	<input type="checkbox"/> 664	KRAS DNA Sequencing Test	<input type="checkbox"/> 663 RAF1 DNA Sequencing Test
<input type="checkbox"/> 803	GCK (MODY2) DNA Sequencing and Deletion Test		<input type="checkbox"/> 662	SOS1 DNA Sequencing Test	
<input type="checkbox"/> 802	HNF4A (MODY1) DNA Sequencing and Deletion Test		Obesity: Molecular Genetics		
<input type="checkbox"/> 834	IPF1 (MODY4) DNA Sequencing Test		<input type="checkbox"/> 884	Early Onset Obesity Evaluation	LEPR, MC4R
<input type="checkbox"/> 804	TCF1 (MODY3) DNA Sequencing and Deletion Test	HNF1A (TCF1)	Individual Early Onset Obesity single gene tests: Only order single gene tests when not ordering the panel.		
<input type="checkbox"/> 805	TCF2 (MODY5) DNA Sequencing and Deletion Test	HNF1B (TCF2)	<input type="checkbox"/> 640	Early Onset Obesity (MC4R) DNA Sequencing Test	
<input type="checkbox"/> 837	CEL (MODY8) Mutation Analysis		<input type="checkbox"/> 883	Early Onset Obesity (LEPR) DNA Sequencing Test	
<input type="checkbox"/> 882	Neonatal Diabetes Mellitus Evaluation	IPF1, GCK, KCNJ11, INS, ABCC8	<input type="checkbox"/> 887	Bardet-Biedl Syndrome Evaluation	BBS1, BBS2, BBS10
Individual Neonatal Diabetes Mellitus single gene tests: Only order single gene tests when not ordering the panel.			Individual Bardet-Biedl Syndrome single gene tests: Only order single gene tests when not ordering the panel.		
<input type="checkbox"/> 876	ABCC8 (NDM) DNA Sequencing Test		<input type="checkbox"/> 871	BBS1 (BBS) DNA Sequencing Test	<input type="checkbox"/> 872 BBS2 (BBS) DNA Sequencing Test
<input type="checkbox"/> 853	INS (NDM) DNA Sequencing Test		<input type="checkbox"/> 886	BBS10 (BBS) DNA Sequencing Test	
<input type="checkbox"/> 843	KCNJ11 (NDM) DNA Sequencing Test		Reproductive Disorders: Molecular Genetics		
<input type="checkbox"/> 842	GCK (NDM) DNA Sequencing Test		<input type="checkbox"/> 679	Complete Kallmann/IHH Evaluation	
<input type="checkbox"/> 841	IPF1 (NDM) DNA Sequencing Test		Individual Kallmann/IHH single gene tests: Only order single gene tests when not ordering the panel.		
Nephrogenic Diabetes: Molecular Genetics			<input type="checkbox"/> 461	CHD7 DNA Sequencing Test	<input type="checkbox"/> 195 FGF8 DNA Sequencing Test
<input type="checkbox"/> 854	Nephrogenic Diabetes Insipidus Evaluation	AVPR2, AQP2	<input type="checkbox"/> 196	FGFR1 DNA Sequencing Test	<input type="checkbox"/> 343 GnRH1 DNA Sequencing Test
Individual Nephrogenic Diabetes Mellitus single gene tests: Only order single gene tests when not ordering the panel.			<input type="checkbox"/> 279	GnRHR DNA Sequencing Test	<input type="checkbox"/> 173 KAL1 DNA Sequencing Test
<input type="checkbox"/> 852	AQP2 (Nephrogenic Diabetes Insipidus) DNA Sequencing Test		<input type="checkbox"/> 364	KISS1R DNA Sequencing Test	<input type="checkbox"/> 175 PROK2 DNA Sequencing Test
<input type="checkbox"/> 851	Nephrogenic Diabetes Insipidus (AVPR2) DNA Sequencing Test		<input type="checkbox"/> 180	PROKR2 DNA Sequencing Test	<input type="checkbox"/> 358 TACR3 DNA Sequencing Test
Familial Cancer Syndromes: Molecular Genetics			<input type="checkbox"/> 462	Anosmic Kallmann/IHH Evaluation	Please see website for the complete list of genes.
<input type="checkbox"/> 818	MEN1 DNA Sequencing Test		<input type="checkbox"/> 667	Normosmic Kallmann/IHH Evaluation	
<input type="checkbox"/> 889	Pheochromocytoma Evaluation	RET, VHL, SDHB	<input type="checkbox"/> 817	Male Precocious Puberty (LHCGR) DNA Sequencing Test	
Individual Pheochromocytoma single gene tests: Only order single gene tests when not ordering the panel.			Short Stature: Molecular Genetics		
<input type="checkbox"/> 813	MEN2 (RET) DNA Sequencing Test		<input type="checkbox"/> 865	Combined Pituitary Hormone Deficiency Evaluation	PROP1, POU1F1
<input type="checkbox"/> 888	SDHB DNA Sequencing Test		Individual Pituitary Hormone Deficiency single gene tests: Only order single gene tests when not ordering the panel.		
<input type="checkbox"/> 858	von Hippel-Lindau Syndrome (VHL) DNA Sequencing Test		<input type="checkbox"/> 864	POU1F1 (CPHD) DNA Sequencing Test	
Familial Hypocalciuric Hypercalcemia: Molecular Genetics			<input type="checkbox"/> 863	PROP1 (CPHD) DNA Sequencing Test	
<input type="checkbox"/> 829	Familial Hypocalciuric Hypercalcemia (CASR) DNA Sequencing Test		<input type="checkbox"/> 848	Growth Hormone Deficiency Evaluation	GH1 and GHRHR Seq.; SHOX Seq. and Del.
Family Testing			Individual Growth Hormone Deficiency single gene tests: Only order single gene tests when not ordering the panel.		
<input type="checkbox"/> 185	Familial DNA Sequence Evaluation	This test detects previously identified sequence variants in at-risk family members.	<input type="checkbox"/> 866	GH1 (GHD) DNA Sequencing Test	<input type="checkbox"/> 868 GHRHR (GHD) DNA Sequencing Test
	Proband Accession # _____		<input type="checkbox"/> 847	SHOX (GHD) DNA Sequencing and Deletion Test	
	Relationship _____		<input type="checkbox"/> 867	GHR DNA Sequencing Test	