

PHONE: 714-288-3500
FAX: 714-288-3510
www.geneticscenter.com

GC	DR
Depart	
Verify By	

MOLECULAR GENETICS REQUISITION Highlighted fields are required

PATIENT INFORMATION	SAMPLE INFORMATION
Patient Name: (Last, First)	Date of Collection: MM/DD/YY
Date of Birth: MM/DD/YY	Hospital:
Gender: ☐ Male ☐ Female ☐ Unknown	Accession #:
Ethnic Background (Select all that apply):	Sample Type: (Please select one)
☐ African American ☐ Hispanic	☐ Blood ☐ Bone Marrow ☐ Other:
☐ Asian ☐ Native American Indian	☐ Cord Blood ☐ Amniotic Fluid
Ashkenazi Jewish Other Jewish	☐ Tissue (specify source):
☐ European Caucasian ☐ Other (please specify):	DNA (specify source):
	(DNA concentration): ug/u
REFERRING PHYSICIAN	
Physician:	INDICATION FOR STUDY
Phone:	
Fax:	 ☐ Autism spectrum disorder ☐ Developmental delay ☐ Dysmorphic features
Email:	☐ Failure to thrive ☐ Short stature
ADDITIONAL DEPODT DECIDIENTS	☐ Family history of cognitive impairment
ADDITIONAL REPORT RECIPIENTS	☐ Suspected thrombophilia
Physician:	☐ Carrier screening for
Phone:	☐ Congenital malformation (specify)
Email:	☐ Other
Email:	001.1 //
TARGETED ANALYSIS Gene Name:	GC Lab #: Relationship to relative:
Name of Proband: (please provide proband's to	rest results) Positive Control Sample: Sample Provided
Variant:	☐ Sample Not Available ☐ Results Provided
Note: A copy of the familial result including transcript number and/or positive or	control are required for this testing. Please contact our lab for a collection kit.
□ Alport Syndrome (COL4A3, COL4A4, COL4A5)	☐ Birt-Hogg-Dube Syndrome (FLCN)
	CFTR-related Disorders:
□ Angelman Syndrome Methylation Analysis	☐ Cystic Fibrosis Targeted Mutation Panel
□ Angelman Syndrome Methylation w/ reflex to FISH for	-
15q11 microdeletion	☐ Cystic Fibrosis CFTR gene sequence analysis
□ Aortopathy Panel (ACTA2, CBS, COL3A1, COL5A1, COL5A2,	☐ Cystic Fibrosis CFTR gene deletion & duplication analysis
FBN1, FBN2, FLNA, GLI3, MED12, MYH11, MYLK, NOTCH1, PLOD1, PRKG1, SKI, SLC2A10, SMAD3, SMAD4, TGFB2,	☐ Congential Central Hypoventilation Syndrome (PHOX2B)
TGFB3, TGFBR1, TGFBR2)	☐ Costello Syndrome (HRAS)
Array CGH (Microarray):	Craniosynostosis Syndromes:
□ 180K Oligonucleotide/SNP Array	☐ Craniosynostosis Panel (FGFR1, FGFR2,
☐ 60K Oligonucleotide Array	FGFR3, TWIST1)
☐ Prenatal Targeted Oligo/SNP Array	☐ Apert Syndrome
☐ Targeted Parental Array (please include child's results)	☐ Crouzon Syndrome
☐ Chromosome Analysis with reflex to Array CGH	☐ Crouzon Syndrome with Acanthosis Nigricans
☐ Ataxia Telangiectasia (ATM)	☐ Muenke Syndrome
☐ Autosomal Dominant Polycystic Kidney Disease (PKD1, PKD2)	☐ Non-Syndromic Craniosynostosis
□ Bannayan-Riley-Ruvalcaba Syndrome (PTEN)	□ Pfeiffer Syndrome
□ Baimayan-Kney-Kuvaicaba Syndrome (1 1EN)	☐ Saethre-Chotzen Syndrome
	□ Denys-Drash Syndrome (WT1) Poge 1 of 2

☐ DNA Extraction



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Last:______ DOB:_____

MOLECULAR GENETICS REQUISITION (page 2)

Duchenne Muscular Dystrophy:	☐ Prader-Willi Methylation Analysis		
□ DMD Deletion/duplication analysis	☐ Prader-Willi Methylation Analysis with reflex to FISH for		
□ DMD Sequencing	15q11 microdeletion		
☐ Early On-Set Familial Alzheimer Disease Panel (APP, PSEN1,	□ PTEN-related disorder (PTEN)		
PSEN2)	\square RASA1-related disorder (RASA1)		
\Box Familial Adenomatous Polyposis (FAP) -related disorder (APC)	☐ Rasopathy Panel (BRAF, CBL, HRAS, KRAS, MAP2K1,		
☐ Familial Mediterranean Fever (MEFV)	MAP2K2, NF1, NRAS, PTPN11, RAF1, RASA1, R1T1, SHOC2,		
☐ Fragile X DNA Analysis	SOS1, SOS2, SPRED1) □ Retinoblastoma (RB1) (peripheral blood only)		
Hearing Loss:			
☐ Hearing Loss Panel (Connexin 26 and 30, <i>mt-RNR-1</i> and <i>mt-TS1</i>)	☐ Schwannomatosis (SMARCB1)		
☐ Connexin 26 and 30 Targeted Mutation Analysis	☐ Simpson-Golabi-Behmel Syndrome (GPC3) Skeletal Dysplasias:		
☐ Connexin 26 Targeted Mutation Analysis	☐ Achondroplasia		
☐ Connexin 26 - GJB2 Full Gene Sequence Analysis	☐ Hypochondroplasia		
☐ Connexin 30 Targeted Mutation Analysis	☐ Achondroplasia/Hypochondroplasia Panel		
☐ Mitochondrial DNA Hearing Loss Panel (mt-RNR1, mtTS1)	☐ Thanatrophoric Dysplasia (types I and II)		
☐ HFE-related Hemochromatosis	□ Sotos Syndrome (NSD1)		
☐ Hereditary Hemorrhagic Telangiectasia (ACVRL1, ENG, GDF2,	Spinal Muscular Atrophy (SMA):		
RASA1, SMAD4)	☐ Carrier Testing (SMNI with intron 7 c.*3+80T>G SNP)		
☐ Hereditary Mismatch Repair Deficiency Syndrome (MLH1, MSH2, PMS2, MSH6)	☐ Diagnostic Testing (SMN1 & SMN2 with intron 7 c.*3+80T>G SNP)		
☐ Huntington Disease (HTT)	☐ Stickler Syndrome Panel (COL11A1, COL11A2, COL2A1,		
☐ JAK2 V617F Mutation Analysis	COL9A1, COL9A2, COL9A3)		
☐ Legius/NF1-like Syndrome (SPRED1)	Thrombophilia/Obstetric Complication Panel: ☐ Thrombophilia Panel (Factor II, Factor V,		
☐ Li-Fraumeni Syndrome (TP53)	and MTHFR)		
☐ Marfan Syndrome (FBN1)	☐ Prothrombin (Factor II) Mutation Analysis		
☐ MECP2 Sequencing (Rett Syndrome)	☐ Factor V Leiden Mutation Analysis		
☐ Multiple Endocrine Neoplasia, Type 1 (MEN1)	☐ MTHFR Mutation Analysis (MTHFR A1298C)		
☐ Multiple Endocrine Neoplasia, Types 2A & 2B (RET)	☐ MTHFR Mutation Analysis (MTHFR C677T)		
☐ Myotonic Dystrophy DNA Analysis	☐ TPMT Mutation Analysis		
\square Neurofibromatosis, Type 1 (NF1)	☐ Tuberous Sclerosis (TSC1 & TSC2)		
□ Neurofibromatosis, Type 2 (NF2)	☐ Twin Zygosity		
□ Nevoid Basal Cell Carcinoma Syndrome (Gorlin Syndrome) (PTCH1, SUFU)	□ Von Hippel-Lindau (VHL) □ Wilms Tumor (WT1)		
□ Noonan Panel (BRAF, CBL, HRAS, KRAS, MAP2K1, MAP2K2, NRAS, PTPN11, RAF1, R1T1, SHOC2, SOS1, SOS2)	☐ Other (please specify):		
□ Osteogenesis Imperfecta (COLIA1, COLIA2)			
☐ Pallister-Hall Syndrome (GL13)			

☐ Paternity/Identity Testing

 \square Peutz-Jeghers Syndrome (STK11)

□ Pancreatitis Panel (CASR, CFTR, CPA1, CTRC, PRSS1, SPINK1)



INFORMED CONSENT FOR MOLECULAR TESTING

I,, hereby authorize sar	nples of blood or other specime	ens to be collected from me
and/or members of my family for genetic testing for (nar	me of disease)	, using
a molecular (DNA) test. In addition, if prenatal diagnosi	is is involved, I authorize fetal c	ells obtained by amniocentesis,
chorionic villus sampling (CVS), cord blood, etc. to be u	sed. I hereby give permission	to collect blood, buccal and/or
saliva samples from my minor children, named below, to	o be used for molecular testing	for the disease listed above.
	_	
Child's Name	Date of Birth	Sex
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I understand that:

The blood, saliva, buccal and/or fetal samples will be used for the purpose of attempting to determine if I or members of my family are carriers of the disease gene, or are affected with, or at increased risk to someday be affected with this genetic disease. It is highly recommended that you seek pre- and post-test genetic counseling to discuss the benefits, risks and limitations of this test.

Possible Results:

Your personal and family health history, other relevant laboratory tests, results of physical examination, and the clinical impression of your doctor should all be taken into consideration when interpreting the results of this test. Only final test results will be provided.

Testing may yield one of the following possible results:

- <u>Positive:</u> a mutation is found in a gene that is associated with a particular hereditary genetic condition. This
 may allow you to make informed decisions about your/your child's health as well as provide information for
 future family planning.
- <u>Negative:</u> no currently relevant mutations are identified in the genes tested. The likelihood of having a mutation in the genes tested is greatly reduced.
- <u>Variant of Unknown Significance</u>: a variant is identified, but it is currently unknown if the variant is associated with the condition that is being tested for.

These test results could have clinical or reproductive implications for you and/or your family members, which should be discussed with the appropriate healthcare provider. If you have a positive test result, you are recommended to discuss the result with your healthcare provider as well as receive genetic counseling to discuss the risk of your children and/or biological relatives inheriting the same mutation(s).

The US Genetic Information Nondiscrimination Act (GINA) of 2008 (Public Law 110-233) prohibits discrimination on the basis of genetic information with respect to health insurance and employment. However, GINA does not apply to life insurance, disability insurance, or long-term care insurance, which may be governed by state law. For information on GINA, visit http://www.genome.gov/10002328.

Participation in molecular testing is completely voluntary, and the results are confidential. Because of the complexity of DNA based testing and the important implications of the test, upon request, the results will be reported to me only through my physician, genetic counselor, or other health care specialist whom I have designated. The results will only be released to other medical professionals or other parties including insurance carriers with my written consent. Genetics Center is fully in compliance with all Health Insurance Portability and Accountability Act (HIPAA) and other relevant regulations.

Prenatal Samples:

In order to perform accurate prenatal diagnosis, blood samples may be required from the affected individual in the family, both parents of the fetus, and possibly from other family members. We request the submission of both a direct and a cultured fetal specimen (amniotic fluid or CVS) for each prenatal study. The final report for a fetal analysis will be sent only after the confirmation study is complete. This is a time consuming process and may take weeks prior to achieving results. Sometimes a definite diagnosis may not be made, and the results could be non-conclusive.



Test Limitations:

An error in the diagnosis may occur if the true biological relationships of the family members involved in this study are not as I have stated. For example, nonpaternity means that the father of an individual is not the person stated to be the father. This test may detect nonpaternity, and it may be necessary to report this finding to the individual who requested testing.

Any incorrect diagnosis in a family member can lead to an inaccurate diagnosis for other related individuals. Generally, genetic testing is complex and are being improved and expanded continuously. This test is not considered research, but is considered diagnostic. It is possible that there are mutations or genetic aberrations that this testing technology is unable to detect. Knowledge of genetic information may improve over time, or new information may become available in the future, that could impact the interpretation of my results. There may be additional mutations and/or genes that other tests could cover and/or will be known in the future as genetic testing evolves. Testing utilizes specialized methods and materials, thus there is always a small possibility that the test may not work properly, or that an error will occur.

I understand that the DNA analysis performed at Genetics Center for this disease is specific only with respect to it. A negative result in no way guarantees my health or the health of my current children or fetus. The accuracy of DNA analysis is entirely dependent on the clinical diagnosis made, and Genetics Center cannot be responsible for erroneous clinical diagnosis made by others.

Other:

I understand that my genetic sample is not being banked. The laboratory does not return DNA samples or raw test data to individuals or physicians. However, in some cases it may be possible for the laboratory to reanalyze my remaining DNA (if available) upon request. The request for additional studies must be ordered by my referring physician/counselor, and there will be an additional fee.

Once my test result is completed, an aliquot of my DNA may be made anonymous (name and all other identifiers removed) and used for quality control or research purposes. No compensation will be given for any invention(s) resulting from the use of my DNA in research and development. You may refuse to have your specimen used in this way, and your refusal will in no way affect the present testing results. Please indicate your consent or denial below. If left blank, it will be assumed that you consent to the use of your DNA sample as described above.

I consent to the use of my DNA for quality control or research purposes

☐ I do not co	nsent to the use o	of my DNA for quality c	control or research purposes	
limitations and benefits of m	olecular testing to ead this entire doo	o me and I have had th cument, and I voluntari	or, or other health care specialist has explained the opportunity to ask questions I might have rily give my consent for sample collection and gerent.	
Signature:			Date:	
Witnessed By:				
		NG/INSURANCE INF opy of insurance card		
☐ Hospital/Institution	on 🗆 HMO/PPO	☐ Patient/Insurance	e □ Medicare □ Payment Enclosed	
Insurance Co				_
City, State, Zip				



Name of Insured		_
Test Preauthorization no		_
Relationship to Patient: Self Spouse Child Other	er	_
Insured's Employer		_
Policy no	Group no	_
laboratory tests that is necessary for reimburse I understand that my insurance coverage is a cany amount not paid by my insurance (includin	ny designated insurance carrier such information concerning my ment. I also authorize benefits to be paid directly to Genetics Cente ontract between me and my insurance carrier, and I am responsible g co-pays, unmet deductibles, lack of coverage, etc). The charges for I permit a copy of this authorization to be used in place of the origin	fo or
Patient or Parent (or Guardian) Signature:	Date:	