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# WHOLE EXOME SEQUENCING (WES) REQUISITION

Patient Last Name	Patient First Name		MI		Date of Birth (MM / DD / YYYY)
Address	City		State Zi Genetic Sex:		Phone
Accession #	Hospital / Medical Record #		Gender identity (if differ	Male Male	<ul> <li>Unknown</li> </ul>
Note: All reports will be sent via fax except f	or international recipients.				
ORDERING PHYSICIAN		ADDITIONAL REPORT	S		
Ordering Physician	Institution Code	Name		Name	
Institution Name		Email		Email	
Email (Required for International Clier	nts)	Phone		Phone	
Phone	Fax	Fax		Fax	
		Note: Reports will be sent	by FAX except for internat	ional recipients	
PAYMENT (FILL OUT ONE OF THE O	OPTIONS BELOW)				
SELF PAYMENT					
Pay With Sample	Bill To Patient				
O INSTITUTIONAL BILLING					
O INSTITUTIONAL BILLING		ution Contact Name			Institution Contact Email
O INSTITUTIONAL BILLING		ution Contact Name	Institution Pho	ne	Institution Contact Email
INSTITUTIONAL BILLING Institution Name INSURANCE			Institution Pho	ne	Institution Contact Email
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Physician's Printed Name

Physician's Signature

\_\_\_\_ / \_\_\_ / \_\_\_ Date (MM / DD / YYYY)

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## WHOLE EXOME SEQUENCING (WES) REQUISITION

			/ /	
Patient Last Name Patient First Na	ame	MI Date of	Birth (MM / DD / YYYY)	Genetic Sex
INSTRUCTIONS FOR ORDERING				
Any combination of Chromosomal Microarray Analysis (CMA differ from exome sequencing.	), mtDNA Analysis, or Global I	MAPS® can be ordered along wi	th a WES test, however the tu	rnaround time for results will
TRIO WES TEST OPTIONS				
1600       Trio Whole Exome Sequencing         1532       Trio Whole Exome Sequencing + Comprehensive         1722       Rapid Trio Whole Exome Sequencing         1533       Rapid Trio Whole Exome Sequencing + Comprehensive	·	CORRESPONDING PARENTAL T (Both Biological Parents Are Re <b>NOTE:</b> Please use separale Addi	quired) 🗌 1550 Parental	WES - Paternal Iditional Affected Sibling
DUO WES TEST OPTIONS				
<ul> <li>1603 Duo Whole Exome Sequencing</li> <li>1723 Rapid Duo Whole Exome Sequencing</li> </ul>	CORRESPONDING PARENTAL TE 1550 Parental WES - 1550 Parental WES -	Maternal 1602 WE	S - Additional Af	OTE: Please use separate Additional fected Sibling for Trio requisition for ditional family members.
PROBAND WES TEST OPTIONS				
<ul> <li>1500 Proband Whole Exome Sequencing</li> <li>Proband Whole Exome Sequencing</li> <li>1530 + Chromosomal Microarray Analysis (CMA) (Comprehensive)</li> </ul>	L 1531 + Comprehens	e Exome Sequencing ive mtDNA Analysis Whole Exome Sequencing	CORRESPONDING PARENTAL G997 Optional Pare NOTE: See consent for for the c	ental Control
GLOBAL MAPS® TESTS		ADD-ON TESTS		
<ul> <li>4900 Global Metabolomic Assisted Pathway Screen</li> <li>Was plasma extracted from EDTA? Yes</li> <li>4901 Global Metabolomic Assisted Pathway Screen</li> </ul>	es 🔿 No	_	ve mtDNA analysis by NGS	R+SNP Screen (Comprehensive)
ADDITIONAL REPORTING OPTIONS				
If a box is not checked the lab will default to No / Not Report				
Opt-In for Other Incidental Findings Opt-In f	or Research Findings			
PROBAND SAMPLE(S)				
Please refer to www.baylorgenetics.com for full sample req	uirements.	mtDNA analysis only	Global MAPS <sup>®</sup> only	
	d Skin Fibroblast ed DNA from	<ul> <li>Skeletal Muscle</li> <li>Liver</li> </ul>	Plasma from EDTA	A 🔵 Urine
Saliva       Cord Blood		Tissue	// Date of Collection (MM / DD / YYYY)	
NOTE: Extracted DNA/RNA will only be accepted if the isolation of nucleic aci	ds for clinical testing occurs in a CLIA	-certified laboratory or a laboratory mee		mined by the CAP and/or the CMS.
BIOLOGICAL PARENTS INFORMATION				
BIOLOGICAL PARENTS SAMPLES ARE REQUIRED FOR TRIO WES; Other WITH CHILD'S NAME. Must sign parental testing authorization on cons		ituted for either parent. Be sure to la	bel parental samples with full nam	e and date of birth - DO NOT LABEL
MATERNAL INFORMATION		PATERNAL INFORMAT	ION	
Asymptomatic Symptomatic (Attach summary of fi	ndings)	Asymptomatic	Symptomatic (Attach summa	ry of findings)
Maternal Last Name Maternal First Name	MI	Paternal Last Name	Paternal First N	ame MI
Maternal Date of Birth///	Sample Type: Blood in EDTA (preferred)	Paternal Date of Birth (MM / DD / YYYY)	//	Sample Type: Blood in EDTA (preferred)
Date of Collection / / / / / / / / / / / / / / / / / / /	<ul> <li>Buccal Swab</li> <li>Saliva</li> </ul>	Date of Collection (MM / DD / YYYY)	//	<ul> <li>(preferred)</li> <li>Buccal Swab</li> <li>Saliva</li> </ul>

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# WHOLE EXOME SEQUENCING (WES) REQUISITION

			/ /	
Patient Last Name	Patient First Name	MI	Date of Birth (MM / DD / YYYY)	Genetic Sex
ITEM CHECKLIST FOR TESTING				
Proband Sample (Required)	Signed WES Consen	t Form	Indication for Study	
Maternal Sample (Required for Trio WE	S) Clinical Note/Summ	ary	Pedigree (Optional)	
Paternal Sample (Required for Trio WES	S) Requisition			
INDICATION FOR TESTING (REQUIRED)				

Please provide the following clinical information regarding the patient to be tested. Please also submit a clinic note and pedigree, if available. Phenotypes listed are in HPO terms with the corresponding HPO number (http://human-phenotype-ontology.github.io/). This information is needed to facilitate interpretation of whole exome sequencing results. If the laboratory requires additional information, please indicate the health care provider to be contacted:

PRE/PERINA	TAL HISTORY	EYE DEFECTS & VISION	MOTOR/COGNITIVE DEVELOPMENT ·····
<ul> <li>0001622</li> <li>0001511</li> <li>0001562</li> <li>0001561</li> </ul>	Prematurity - GA at birth Intrauterine Growth Restrictions Oligohydramnios Polyhydramnios	<ul> <li>0000505 Visual Impairment</li> <li>0000618 Blindness</li> <li>0000589 Coloboma</li> <li>0000526 Aniridia</li> </ul>	<ul> <li>0000750 Delayed Speech &amp; Language Development</li> <li>0001270 Delayed Motor Milestones</li> <li>0002376 Developmental Regression</li> <li>Intellectual Disability</li> </ul>
0000476 0000776 0001508 0001539 0002084 0010880	Cystic Hygroma Congenital Diaphragmatic Hernia Failure to Thrive Omphalocele Encephalocele Increased Nuchal Translucency	0000528       Anophthalmia         0000568       Microphthalmia         0000508       Ptosis         0000486       Strabismus         0000519       Cataract Congenital Bilateral	Indicated bisbondy     0001256 Mild     0002342 Moderate     0010864 Severe     0000729 Autistic Spectrum Disorder
STRUCTURAL	BRAIN ABNORMALITIES	NEUROLOGICAL	CRANIOFACIAL
0001360	Holoprosencephaly	0001284 Areflexia	0000256 Macrocephaly
0001339	Lissencephaly	0200134 Epileptic Encephalopathy	0000252 Microcephaly
0002084	Encephalocele	0001250 Seizures	0001363 Craniosynostosis
0000238	Hydrocephalus	0002373 Febrile Seizures	0000204 Cleft Upper Lip
0002119	Ventriculomegaly	0012469 Infantile Spasms	0000175 Cleft Palate
0001273	Abnormality of Corpus Callosum Cortical Dysplasia	© 0002123 Generalized Myoclonic Seizures	<ul> <li>0000316 Hypertelorism</li> <li>0000601 Hypotelorism</li> </ul>
0012444	Brain Atrophy Leukoencephalopathy	O002069     Generalized Tonic-clonic     Seizures	0008050 Abnormality of the Palpebral Fissures 0000286 Epicanthal Folds
0002269	Abnormality of Neuronal Migration	0010818 Generalized Tonic Seizures	0000288 Abnormality of the Philtrum
0002126	Polymicrogyria	0010819 Atonic Seizures	0010938 Abnormality of the External Nose
0001302	Pachgyria	0002121 Absence Seizures	
0002500	Abnormality of Cerebral White Matter	0011169 Generalized Clonic Seizures	
0007266	Cerebral Dysmyelination	0001251 Ataxia	
0006808	Cerebral Hypomyelination	 0001332 Dystonia	
0002134	Abnormality of the Basal Ganglia	0002072 Chorea	
0002363	Abnormality of the Brainstem	0001257 Spasticity	
0007360	Aplasia/Hypoplasia of the Cerebellum	0009830 Neuropathy	
0006817	Aplasia/Hypoplasia of the Cerebellar Vermis		

Indications continued on next page

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1.800.411.4363

PHONE

1.800.434.9850

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# WHOLE EXOME SEQUENCING (WES) REQUISITION

				/	/		
Patient Last Na	me Patient Firs	st Name	MI	Date of Bir	th (MM / DD / YY	YY) Ge	enetic Sex
INDICATION F	OR TESTING (REQUIRED) - CONTINUE	D					
HAIR & SKIN		· CARDIAC ·			GENITOURIN	ARY	
0000957	Cafe-Au-Lait Spots	0001631	Atria Septal Defect		0000113	Polycystic Kidney	Dysplasia
0001034	Hypermelanotic Macule	0001629	Ventricular Septal Defect		0000107	Renal Cyst	
0001010	Hypopigmentation of the Skin				0008738	Partially Duplicate	ed Kidnev
0008066	Abnormal Blistering of the Skin	0001655	Patent Foramen Ovale		0000104	Renal Agenesis	
0008064	Ichthyosis	0001713	Abnormality of Cardiac Ventric	cle	0000085	Horseshoe Kidney	1
	Skin Rash	0001636	Tetralogy of Fallot		0000069	Abnormality of the	
0001581	Recurrent Skin Infections	0001680	Coarctation of Aorta		0000087		
	Capillary Hemangiomas Abnormality of the Nail	0001647	Bicuspid Aortic Valve			Abnormality of the	eorethia
0004554	Generalized Hypertrichosis	0002616	Aortic Root Dilatation			Hypospadias	
0001596	Alopecia	0001638	Cardiomyopathy			Cryptorchidism	
0002208	Coarse Hair	0011675	Arrhythmia		0000035	Abnormality of the	
0002299	Brittle Hair		Arriyunnia		0000062	Ambiguous Genita	alia
					∐		
RESPIRATOR	γ	• METABOLIC			MUSCULOSK	ELETAL ······	
0002093	Respiratory Insufficiency	0001946	Ketosis		0011398	Hypotonia	
0002878	Respiratory Failure	0003074	Hyperglycemia		0001276	Hypertonia	
0002104	Apnea	0001943	Hypoglycemia		0000098	Tall Stature	
0002791	Hypoventilation	0001941	Acidosis		0004322	Short Stature	
0002883	Hyperventilation	0003128	Lactic Acidosis		0001382	Joint Hypermobili	
0002788	Recurrent Upper Respiratory Tract	0003215	Dicarboxylic Aciduria		0001371	Flexion Contractu	
	Infections		-		0002804		ultiplex Congenita
<u>Ц</u>		0002490	Increased CSF lactate			Hand Polydactyly	
		0001992	Organic Aciduria			Foot Polydactyly	
		0030085	Abnormal CSF Lactate Level		0006101	Finger Syndactyly Toe Syndactyly	
GASTROINTE	STINAL	. 00003542	Increased Serum Pyruvate		0100490	Camptodactyly of	Finger
_		0003535	3-Methylglutaconic aciduria		0012165	Oligodactyly	Tinger
0002021	Pyloric Stenosis Tracheoesophogeal Fistula	0001942	Metabolic acidosis		0001762	Talipes Equinovar	us
	Esophageal Atresia	0100493	Hypoammonemia		0002757	Recurrent Fractur	
0002020	Gastroesophageal Reflux	0001987	Hyperammonemia		0002650	Scoliosis	
0001733	Pancreatitis	0004923	Hyperphenylalaninemia		0002808	Kyphosis	
0002014	Diarrhea	0003234	Decreased Plasma Carnitine		0003307	Hyperlordosis	
0002019	Constipation	0003236	Elevated Serum Creatine		0001528	Hemihypertrophy	
0002037	Inflammatory Bowel Disease		Phosphokinase Newborn Screen		0001513	Obesity	
0004389	Intestinal Pseudo-Obstruction				0001548	Overgrowth	
	Hepatic Failure	Unusual C	010170000		0002652	Skeletal Dysplasia	а
	Episodic Vomiting	<u> </u>			<u> </u>		
0001744	Splenomegaly Hepatomegaly	□			Ш		
	Postnatal Failure to Thrive						
	Gastroparesis						
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# WHOLE EXOME SEQUENCING (WES) REQUISITION

				/	/	
Patient Last Na	me Patient First Nar	ne	MI	Date of Birt	h (MM / DD / YY)	(Y) Genetic Sex
INDICATION F	DR TESTING (REQUIRED) - CONTINUED					
ENDOCRINE	••••••	HEMATOLOGY	••••••		OTHER ····	
0000819 0000873 0000821 0000829 0000834 0001738 0002721	Diabetes Mellitus Diabetes Insipidus Hypothyroidism Hypoparathyroidism Abnormality of the Adrenal Glands Exocrine Pancreatic Insufficiency Immunodeficiency		nic	9	Organomeg           Chronic Inf           0004311           0004313           0010701           0002721           0012088           0012537           0008067	
EAR DEFECTS	& HEARING	Aplas Hypo	stic plastic			Movements tory of Similar Disorder
0000407 000 0000405	Sensorineural Hearing Impairment 8619 Bilateral Conductive Hearing Impairment		Anemia Bone Marrow Hypocellularity		0001254 0002415	Lethargy Leukodystrophy
<ul> <li>0000410</li> <li>0004467</li> <li>0000384</li> <li>0000369</li> <li>000037</li> </ul>	Mixed Hearing Impairment Preauricular Pit Preauricular Skin Tag Low-set Ears Abnormality of the Pinna	Type of Cance			GENES OF IN	TEREST

## ADDITIONAL CLINICAL INFORMATION

# DIFFERENTIAL DIAGNOSIS

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## WHOLE EXOME SEQUENCING (WES) CONSENT

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Patient First Name

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\_\_\_\_ / \_\_\_ / Date of Birth (MM / DD / YYYY)

Genetic Sex

## INFORMATION AND CONSENT FOR TESTING

## DESCRIPTION OF WHOLE EXOME SEQUENCING (WES) TEST

The Whole Exome Sequencing (WES) test identifies changes, called variants, in a person's DNA that cause genetic disorders or medical conditions. The WES test provides a comprehensive analysis of the exome, which is the part of the human genome that helps the body make important proteins. The WES test will analyze the important regions of thousands of genes at the same time. Based on the symptoms that are known, genes with changes associated with these symptoms will be reported. WES results are very accurate, but no test is perfect. There is a small chance that DNA changes may not be detected due to limitations of technology or information known about the genes being tested. Results are based on the information available at the time of the testing and may change in the future as medical knowledge changes. It is possible that even if WES identifies the underlying genetic cause for a disorder in a family this information may not help in predicting medical outcomes or change medical management or treatment of disease. WES testing may also identify information about genes and diseases that have clear and immediate medical significance to your health of the your family members, even if that information is not related to currently known symptoms. You may consider discussing the significance of your results with your healthcare provider or genetic counselor.

#### TEST RESULTS

You may receive any of the following types of results:

- · Positive: Positive results mean there are one or more changes in the genetic material related to your medical issues.
- Negative: Negative results mean no relevant genetic change could be detected using WES. Genetic testing, while highly accurate, might not detect a change present in the genes tested. This can be due to limitations of the information available about the genes being tested, or limitations of the testing technology. In addition, WES does not test all of the genes in the genome due to technical limitations.
- Results of Unclear Significance: WES can detect change(s) in DNA that do not have clear meaning. These changes are also referred to as variants of uncertain significance (VUS). Additional studies may be indicated if a VUS is identified in a gene that may be associated with your medical condition.

#### INCIDENTAL FINDINGS

This test may also find changes in genes that cause symptoms or diseases not related to the reason for having the test. These are called Secondary Findings and are associated with clear and immediate medical significance to your health or the health of your family members.

## Category I: ACMG Secondary Findings

The American College of Medical Genetics (ACMG) has published guidelines for the reporting of these types of medically actionable or secondary findings (PMID: 34012068). These guidelines include a list of genes, which are updated occasionally, that are considered medically actionable and indicate laboratories should report pathogenic (disease-causing) findings in these genes. In accordance with an update to this policy statement (PMID: 25356965), you may choose to opt-in to receive this information.

#### Category II: Other Incidental Findings

Medically actionable variants are changes found in genes known to be associated with disease but not associated with your current symptoms or clinical presentation. These variants are reported as they may cause severe, early-onset disease or may have implications for treatment and prognosis. You may choose to opt-in to receive this information.

## ADDITIONAL REPORTING CONSIDERATIONS

The interpretation of the test results is based on information available at the time of testing. As medical knowledge advances, our interpretation of these results may change in the future. We expect to find hundreds of changes when testing a person's DNA, and most of these changes do not relate to disease and therefore will not be reported. The raw sequence data generated by WES is available for request once a WES report has been issued. Please see our website for further information.

The report will NOT include findings in genes causing adult-onset neurodegenerative syndromes for which there is presently no prevention or cure. If the reason for testing includes features that clearly indicate such a disorder, we recommend pursuing targeted testing based on specific symptoms and not WES testing. However, if the reason for testing includes a clinical presentation that could include such a disorder, then results may be reported in the proband (patient) and the parents for genes that have an allelic association with dementia or is a component of the phenotype.

Additional considerations for Trio WES (test codes 1600, 1722, 1532, 1533): As part of the Trio WES test, blood samples from the biological parents of the proband are required. Trio WES will be performed on the proband and parental samples at the same time and the sequence data will be analyzed in the context of the family relationships. The parental data will be used to help interpret the proband's data. We will report changes in genes that are present in the affected individual, but not in the asymptomatic parents. This category of results caused by new (de novo) findings may be significant in determining the cause of the medical condition. Thus, this category of changes will be reported for genes with a known current association with disease. We will also report changes in genes where each parent has one change and the affected individual has inherited both changes. Custom Family Sequence Analysis (test code 1580) is available for other family members at an additional charge. Free testing for variants of unknown significance is available with prior approval. A separate parental report will be issued regarding ACMG secondary findings.

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# WHOLE EXOME SEQUENCING (WES) CONSENT

Patient	l ast	Name	

Patient First Name

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\_\_\_\_/ \_\_\_/ Date of Birth (MM / DD / YYYY)

Genetic Sex

## ADDITIONAL REPORTING CONSIDERATIONS

Additional considerations for Duo WES (test codes 1603, 1623): As part of the Duo WES test, a sample from one biological parent is required. Duo WES will be performed on the proband and parental sample at the same time and the sequence data will be analyzed in the context of the family relationships. The parental data will be used to help interpret the proband's data. Custom Family Sequence Analysis (test code 1580) is available for family members at an additional charge. Free testing for variants of unknown significance is available with prior approval. A separate parental report will be issued regarding secondary findings.

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Additional reporting for Proband WES (test codes 1500, 1530,1531): Biological parental samples may help facilitate interpretation of Proband WES results. After the proband report is issued, the parental samples received will be tested by Whole Exome Sequencing (test code 1551) for the entire exome, or will be tested by targeted methods such as Sanger sequencing (test code 1580) for changes in genes that are highly likely to be causative of disease in the affected individual to confirm mode of inheritance, de novo status, etc. as determined necessary by the laboratory. Testing of parental status will ONLY be initiated if there is a variant identified in the proband. For targeted testing on the variants detected in the proband's exome data, test code 1580 is available for all family members. Free testing for variants of unknown significance in the immediate family members is available if approved by Baylor Genetics.

## Your physician may order additional tests along with WES. Further test code specific information is as follows:

Test codes 1531, 1532 and 1533: In addition to WES analysis as detailed above, this order will also include a separate analysis of the mitochondrial DNA.

**Test code 2055:** This order is an analysis of the Mitochondrial DNA (mtDNA). This will be reported separately from the WES results with a turnaround time of 14-28 days. If a change in the mtDNA is identified, the report will indicate recommendations for familial follow-up. Baylor Genetics will NOT automatically initiate testing on the maternal sample. If this is desired, please contact client services for assistance.

**Test code 1530:** This order will also include a separate Chromosomal Microarray Analysis for the detection of deletions and duplications (missing or extra regions of DNA) plus a screen for uniparental disomy (UPD) and absence of heterozygosity (AOH), which are changes that can be associated with an increased risk for certain genetic conditions.

**Test code 8665:** The result of this Chromosomal Microarray Analysis (including copy number changes and UPD/AOH detection) will be reported separately from the WES results with a turnaround time of 14 days. If a copy number change is identified, the report will indicate recommendations for familial follow-up. Baylor Genetics will NOT automatically initiate testing on the parental sample(s). If this is desired, please contact client services for assistance.

Test codes 4900 and 4901: This is a large scale, semi-quantitative screening test that looks at changes related to biochemical and metabolic conditions. This is a screening tool for individuals who have symptoms that are not clearly associated with a known disease or as supportive evidence in individuals with results of unclear significance in genes related to biochemical and metabolic conditions. It is not intended to replace current diagnostic testing for specific conditions, nor is it intended for monitoring therapy of a diagnosed condition. Any abnormalities detected using Global MAPS<sup>®</sup> should be confirmed by diagnostic biochemical or molecular diagnostic testing.

This is the consent for WES testing and does not need to be completed if only Chromosomal Microarray Analysis, Mitochondrial DNA Analysis, or Global MAPS<sup>®</sup> is ordered. Please visit the Baylor Genetics website for further information about these tests and their associated consent forms.

## CONSIDERATIONS AND LIMITATIONS

- 1. It is possible that you could have a change in a gene included in the WES test, but the WES test was unable to detect the change. Therefore, it is possible that you may be affected with one of the conditions tested by WES, but that the test did not detect the change associated with this condition.
- 2. The WES test does not analyze all of the genes in the human genome. There are some genes that cannot be included in the test due to technical limitations.
- 3. Results may be unclear or indicate the need for further testing on other family members
- 4. It is possible that additional information may come to light during these studies regarding family relationships. For example, data may suggest that family relationships are not as reported, such as non-paternity (the father of the individual is not the biological father) or consanguinity (reproductive partners are blood relatives). Since the accurate assignment of family relationships is critical to the analysis of WES, we may perform a separate genetic test to confirm that the samples that were submitted from the parents were correctly identified. If a discrepancy is identified, we will proceed with testing for the individual(s) who are correctly identified.
- 5. If you sign the consent form, but you no longer wish to have your samples tested by WES, you can contact your doctor to cancel the test. If testing is complete, but you have not received your results yet, you can inform your doctor that you no longer wish to receive the results. However, if you withdraw consent for testing after 5:00 p.m. CST the next business day following sample receipt by the laboratory, you will be charged for the full cost of the test.
- 6. Changes identified by WES may be submitted to public databases, such as ClinVar, to contribute knowledge to the medical profession. Usually limited clinical information is also required for the submission. However, it is unlikely that contents of the database submissions will include any information that will identify you personally.
- 7. Because many different genes and conditions are being analyzed, there is a risk that you will learn genetic information about yourself or your family that is not directly related to the reason for ordering the WES. This information might relate to diseases with symptoms that may develop in the future in yourself or other family members as well as conditions that have no current treatment.
- 8. It is possible that even if WES identifies the underlying genetic cause for the disorder in your family, this information may not help in predicting prognosis or change management or treatment of disease.

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## WHOLE EXOME SEQUENCING (WES) CONSENT

Patient	l act	Name	

Patient First Name

\_\_\_\_\_

MI

\_\_\_\_/ \_\_\_/ Date of Birth (MM / DD / YYYY)

Genetic Sex

#### PATIENT CONFIDENTIALITY AND SPECIMEN RETENTION

Results will only be released to a licensed healthcare provider, to those allowed access to test results by law, and to those authorized in writing.

In rare cases, persons with genetic diagnoses have experienced problems with insurance coverage and employment. The U.S. Federal Government has enacted several laws that prohibit discrimination based on genetic test results by health insurance companies and employers. In addition, these laws prohibit unauthorized disclosure of this information. For more information, you can visit www.genome.gov/10002077.

Samples will be retained in the laboratory in accordance with the laboratory retention policy.

After testing is complete, the de-identified submitted specimen may be used for test development and improvement, internal validation, quality assurance, and training purposes. DNA specimens are not returned to individuals or to referring healthcare providers unless specific prior arrangements have been made.

Samples from residents of New York State will not be included in the de-identified research studies described in this authorization and will not be retained for more than 60 days after the sample was collected, unless specifically authorized by your selection. No tests other than those authorized shall be performed on the biological sample.

Information including results, indications for testing, and clinical status obtained from the hereditary cancer gene testing may be shared with healthcare providers, scientists, and healthcare databases or used in scientific publications or presentations, but the personal identifying information of all persons studied will not be revealed in such data sharing or publications/presentations.

#### PATIENT REPORTING OPTIONS AND AUTHORIZATION

Please read the statements below carefully and check the appropriate box and initial. Due to the nature of the methodology of this testing we are unable to guarantee that all pathogenic (disease-causing) variants in each option will be detected by the WES testing. Please refer to the Baylor Genetics website for up-to-date information on the detectable range of the WES test.

DNA Prep (test code 6997): At the discretion of Baylor Genetics, select parental analyses may be performed and reported under Sequential Trio Whole Exome Sequencing (test code 1551) or Custom Family Sequence Analysis (test code 1580) per the additional reporting for Proband WES protocol in the consent below.

For Options 1 & 2: If neither box is checked, or if the form is not signed, consent is interpreted as "NO."

#### INITIAL 1. SECONDARY FINDINGS

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research testing.

Pathogenic and likely pathogenic variants in genes included in the ACMG policy statement regarding recommendations for reporting of secondary findings will be reported as medically actionable on the WES report.

YES Please report pathogenic and likely pathogenic variants in genes determined to be medically actionable by the ACMG policy statement.

NO Please do NOT report pathogenic or likely pathogenic variants in genes included in the ACMG policy statement.

INITIAL 2. OPTION TO ALLOW RELEASE OF UPDATED RESULTS

If a possible diagnosis can be made with this information we would like to issue an updated report to the physician who ordered your WES test. This review does NOT include a complete review of all of your data.

YES If new information regarding the clinical significance of changes in my WES testing becomes known, I would like Baylor Genetics to issue an updated report which includes this information to my physician who ordered this WES testing.

NO Please do NOT issue an updated report if there is new information regarding the clinical significance of my WES testing that becomes known.

I hereby authorize Baylor Genetics to conduct genetic testing for myself (or my child) for the Whole Exome Sequencing test as recommended by my physician.

Printed Name		Signature		/// Date (MM / DD / YYYY)		
Relationship	to Patient	Proband Name	/ Proband D	/ 00B (MM/DD/YY)		
			/	/		
Physician's/	Counselor's Signature		Date (M	M / DD / YYYY)		
FOR SAMPI	LES SUBMITTED FROM NEW YORK STATE					
INITIAL	at the end of testing or not more than 60 days	nose I have authorized shall be performed on my biological sample, an after the sample was taken. However, by initialing here, I hereby auth with the laboratory retention policy for internal laboratory quality ass	orize the lab to	retain my		

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## WHOLE EXOME SEQUENCING (WES) CONSENT

			/ /	
Patient Last Name	Patient First Name	MI Da	Date of Birth (MM / DD / YYYY)	Genetic Sex
RAW DATA CONSENT				
By checking this box, I agree to a request, to me, my physician, or t	allow Baylor Genetics to provide the raw da the requesting laboratory.	ata such as FASTQ or VCF	sequencing files from my gene	tic test, only upon
RESEARCH & RECONTACT CONSENT				
For more information on research at Note: If left blank, consent is interpre	t Baylor Genetics, please visit baylorgenet reted as "NO."	tics.com. Please read the b	elow statements carefully and	check the appropriate box.
I agree to the use of my de-ident	tified specimen for research to improve ge	enetic testing for all patien	ts and contribute to scientific re	esearch.
In addition to agreeing above, I a	agree to be contacted by Baylor Genetics re	egarding research opport	unities.	
I am a New York State Resident, a quality assurance and possible r	and I give Baylor Genetics permission to s research studies.	store my specimen in accor	rdance to the laboratory retenti	ion policy for internal
Authorization and contact informatio	on MUST be completed, or we will not be a	able to reach you regarding	these opportunities.	
CONTACT INFORMATION				
Address		City		State Zip
Phone #	Alternative Phone #		Email	
INFORMATION AND CONSENT FOR TE	ESTING			

Trio WES: (test codes 1600, 1722, 1532, 1533) We understand that our samples will be subjected to Trio WES and will be analyzed to help interpret the data from our child. A separate parental report will be issued regarding secondary findings. Testing of parental status for this category of results will be initiated independently of my child's data. It may be possible to infer information about family member's results based on my child's or other family member's results.

**Duo WES: (test codes 1603, 1723)** I understand that my sample will be subjected to Duo WES and will be analyzed to help interpret the data from my child. A separate parental report will be issued regarding secondary findings. Testing of parental status for this category of results will be initiated independent of my child's data. It may be possible to infer information about family member's results based on my child's or other family member's results.

**Proband WES (test codes 1500, 1530, 1531)** We understand that our samples will be subjected to targeted testing only (such as Sanger sequencing) and will NOT have WES testing. The laboratory will decide which changes will need parental studies. Testing of the parental status for the category of secondary findings will ONLY be initiated if there is a variant identified in my child.

Please read the statements below carefully and check the appropriate box and initial. Due to the nature of the methodology of this testing we are unable to guarantee that all pathogenic variants in each option will be detected by the WES testing. Note, if neither box is checked, or the form is not signed, consent is interpreted as "NO."

CONNECT

# WHOLE EXOME SEQUENCING (WES) PARENTAL CONSENT

						/ /			
Patient Last Name			Patient First Name			MI	Date of Birth (MM / DD / YYYY)	Genetic Sex	
MATERNAL	REPORTING	OPTIC	INS AND AUTHOR	IZATION					
INITIAL	1. SECONI	DARY	INDINGS						
				ic variants in genes include dically actionable on the W			tement regarding recommendatio	ns for reporting of secondary	
YES Please report pathogenic and likely pathogenic variants in ge policy statement.						ants in genes de	termined to be medically actional	le by the ACMG	
	$\bigcirc$	NO	Please do NOT r	eport pathogenic or likely p	athogen	ic variants in ge	nes included in the ACMG policy st	atement.	
				/ /				/ /	
Mother's Prin	ited Name			Date of Birth (MM / DD / )	(YYY)	Mother's Sign	ature	Date (MM / DD / YYYY)	
PATERNAL	REPORTING	ΟΡΤΙ	ONS AND AUTHO	RIZATION					
INITIAL	1. SECONI	DARY	INDINGS						
				ic variants in genes include dically actionable on the W			tement regarding recommendatio	ns for reporting of secondary	
	$\bigcirc$	YES	Please report pa policy statemen		enic vari	ants in genes de	termined to be medically actional	le by the ACMG	
	$\bigcirc$	NO	Please do NOT r	eport pathogenic or likely p	athogen	ic variants in ge	nes included in the ACMG policy st	atement.	
				/ /				/ /	
Father's Prin	ted Name			Date of Birth (MM / DD / )	(YYY)	Father's Signa	ature	Date (MM / DD / YYYY)	
FOR SAMPL	ES SUBMITT	ED FR	OM NEW YORK ST	TATE					
MOTHER'S INITIAL	FATHER'S INITIAL	-	than 60 days	after completion of testing. ccordance with the laborate	Howeve	r, by initialing he	hall be destroyed at the end of the ere, I hereby authorize the lab to re Iternal laboratory quality assuran	etain my sample(s) for longer	