

LAST NAME	FIRST NAME
MR#	DOB

PLACE PATIENT LABEL HERE **OR** COMPLETE ABOVE

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## Division of Genomic Diagnostics GENOMIC DIAGNOSTICS TEST REQUISITION

\*For Cancer tests please use the Cancer Test Requisition.

Page 1 of 1

DO NOT HANDWRITE PATIENT INFORMATION HERE

SHIP TO: Children's Hospital of Philadelphia, Genomic Diagnostic Laboratory, 3615 Civic Center Blvd., Abramson Research Center, 714J, Philadelphia, PA 19104-4302 - Phone: (267) 426-1447			
PATIENT INFORMATION	NC	SA	AMPLE INFORMATION
Patient Name (Last, First, Middle):		· ·	Day/Year):ly have a bone marrow transplant? ☐ Yes ☐ No
Ordering Facility MRN:		Sample Type (Please s  Blood Purple Top Tube (I	see Sample Requirements Page):  Source of Blood:  EDTA)
☐ Fetus of above patient (Check if prenatal samp Sex: ☐ Male ☐ Female ☐ Unknown ☐ Other:		☐ Green Top Tube (S	Sodium Heparin)
Date of Birth (Month/Day/Year): Street Address:		*Cultured CVS Cells  *Cheek Brush	*Cultured Amniotic Fluid
City/State: Zip/Country:			isted below, please specify tissue of origin
	Black/African-American		Cultured Fibroblasts
	French Canadian Jewish-Sephardic	** Were the nucleic acids ( laboratory (as required): + Two samples are require - 3-5mL patient cord blo	'DNA or RNA) extracted from a CAP or CLIA certified ? ☐ Yes ☐ No
ORDERING PROVIDER	ORDERING L	ABORATORY	OTHER ORDERING PROVIDER / GENETIC COUNSELOR
Name (Last, First, Degree)  () Phone  () Fax  Institution  Street Address  City State  Zip Country  Email	Name (Last, First, Degree ()		Name (Last, First, Degree)  () Phone  () Fax  Email
For Lab Use Only Type of billing:  Institutional  CHOP  Self-pay  Institution called Comments:			
Received by: Received Date:	Received Tim	ne: Sample:	

Phone: (267) 426-1447; Fax: (215) 590-3514; Email: dgdgeneticcounselor@chop.edu; Website: http://www.chop.edu/centers-programs/division-genomic-diagnostics



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*For Cancer tests please use the Cancer Test Requisition. Page 2 of 10		
INDICATION FOR TESTING		
Reason for Testing (please include pertinent history and findings, including pathology report):		
Family History (Attach Pedigree if available):		
Previous Relevant Genetic Testing:		
Previous Relevant Genetic Testing Performed (Attach a copy): ☐ Yes ☐ No		
If yes, sample type: ☐ Cultured cells from Chorionic Villus ☐ Cultured Amniocytes ☐ Blood ☐ Bone Marrow		
☐ Tissue ☐ Other:		
Results:		
Known Genetic Abnormality/Familial Testing:		
Is the current patient who is being tested similarly affected to proband (person originally tested)?   No		
If yes, please describe:		
*Attach proband (originally tested family member) report if available.		
Gene/Transcript/Region: Alteration (c., p., and/or g.):		
Proband (originally tested family member) Name (Last, First):		
Proband (originally tested family member) Date of Birth (Month/Day/Year):		
Current patient's relationship to the proband (originally tested family member):		
Please Note: If family member samples are submitted for testing to clarify the interpretation of a variant of uncertain significance for a proband, the family member(s) results will be reported as an addendum on the proband's report. In the case that the provider for the family member is not the same as for the proband, a CHOP HIPAA release is required for release of the results.		
CHOP HIPAA release included? ☐ Yes ☐ No		

<sup>\*</sup>Please contact the laboratory to request expedited testing.



☐ Neonatal Respiratory Distress Panel

LAB-1514 Rev. 2/24

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☐ CHD7 Sequence And Deletion/Duplication Analysis

Division of Genomic Diagnostics GENOMIC DIAGNOSTICS TEST REQUISITION *For Cancer tests please use the Cancer Test Requisition. Page 3 of 10	DO NOT HANDWRITE PATIENT INFORMATION HERE
TEST	MENU
*For known genetic abnormality/familial testing for any gene offered by the lab, please re	
Chromosome Analysis	Panel Testing (cont'd)
Chromosome Analysis:	For a current list of genes on each panel please see pages 5, 6, 7
☐ Karyotype	☐ Noonan Spectrum Disorders Panel ☐ Osteogenesis Imperfecta Panel
☐ Mosaicism Screen	☐ Pneumothorax Panel
☐ Parental Study	☐ Primary Ciliary Dyskinesia Panel
Fluorescence In Situ Hybridization (FISH):	☐ Pulmonary Arterial Hypertension Panel
☐ Indicate specific syndrome or region of interest	☐ Pulmonary-Vascular Panel, Comprehensive
Indicate specific syndrome of region of interest	Rubinstein-Taybi Syndrome Panel
	Sickle Cell Disease Globin Panel  HBB Sequence Analysis
*Contact the lab to confirm availability of FISH probe. There are over	☐ Copy Number Analysis of HBA1, HBA2, and HBB
100 probes available.	☐ Stickler Syndrome Panel
Parental/Familial study:	☐ Very Early Onset Inflammatory Bowel Disease (VEO-IBD) Panel
$\square$ Indicate cytogenetic finding in family member and include a copy of	☐ Waardenburg Syndrome Panel
the family member's report:	Cancer (Germline) Panel Testing: Comprehensive Hereditary Cancer Testing:
,	☐ Comprehensive Hereditary Cancer Festing.
	☐ Hereditary Breast/Gyn Cancer Panel
Tissue Culture Services	☐ Hereditary High-Risk Breast Cancer Panel
☐ Thaw and Expansion	☐ Hereditary High-Risk Colon Cancer Panel
☐ Tissue Culture and Storage (fibroblast)	☐ Hereditary Leukemia/Lymphoma Panel
	☐ Hereditary Paraganglioma/Pheochromocytoma Panel ☐ ALK/PHOX2B Germline Analysis (Hereditary Neuroblastoma)
DNA/RNA Extraction	Bone Marrow Failure/Myelodysplastic Syndrome/Leukemia Testing
<ul><li>□ DNA Extraction</li><li>□ RNA Extraction</li></ul>	☐ Comprehensive Bone Marrow Failure (BMF)/Myelodysplastic Syndrome (MDS)/Leukemia Predisposition Panel
Nuclear Genome Wide Testing	☐ Bone Marrow Failure Panel☐ Fanconi Anemia NGS Panel☐
Chromosomal Microarray Analysis:	☐ Inherited Neutropenia Panel
☐ Chromosomal SNP Microarray	☐ Inherited Red Blood Cell Disorder Panel
☐ Parental/Familial Studies (Genome Wide SNP Array)	☐ Inherited Thrombocytopenia Panel
Medical Exome Analysis:	☐ Telomere Disorder Panel
☐ Medical Exome*	
Medical Exome + MitoGenome Analysis:  ☐ Medical Exome*	Mitochondrial Genome Testing
☐ MitoGenome Sequencing + Deletion Analysis	☐ MitoGenome Sequencing and Deletion Analysis*
Medical Exome Reanalysis:	☐ Rapid MitoGenome Sequencing and Deletion Analysis*
☐ Medical Exome Reanalysis*	☐ mtDNA content Analysis
Reflex to Medical Exome from Exome Panel	*Please fill out maternal relative information section on page 8 if submitting
☐ Medical Exome from Exome Panel*  *Please submit Exome requisition and consent documents separately	a maternal relative as part of this analysis.
Panel Testing	Single Gene and Region Specific Testing
For a current list of genes on each panel please see pages 5, 6, 7	22q11.2 Deletion/Duplication (VCFS, Cat Eye Syndrome, Congenital
Rare Disease Panel Testing:	Heart Defect, DiGeorge syndrome):
Alagille Syndrome Panel	☐ 22q11.2 Deletion/Duplication Analysis
Alport Syndrome Panel	Angelman Syndrome:  Chromosome 15 Methylation Analysis
<ul><li>☐ Branchiootorenal Spectrum Disorder Panel</li><li>☐ Cholestasis Panel</li></ul>	Birt-Hogg-Dube Syndrome:
☐ Cholestasis Pariel ☐ Congenital Diarrhea Panel	☐ FLCN Sequence Analysis
☐ Connective Tissue Panel	☐ FLCN Deletion/Duplication Analysis
☐ Cornelia de Lange Syndrome Panel	Blepharophimosis-Ptosis-Epicanthus Inversus Syndrome:
☐ Craniofacial Panel	☐ FOXL2 Sequence Analysis ☐ FOXL2 Deletion/Duplication Analysis
☐ Craniosynostosis Panel	Brooke Spiegler Syndrome:
☐ Epilepsy Panel ☐ Hearing Loss Panel (Comprehensive AUDIOME)	☐ CYLD Sequence Analysis
☐ Hearing Loss Panel (Comprehensive AUDIOME) ☐ Hemophagocytic Lymphohistiocytosis (HLH) Panel	CADASIL:
☐ Hereditary Pancreatitis Panel	□ NOTCH3 Sequence Analysis  CASK-Related Disorders:
☐ Kabuki Syndrome Panel	☐ CASK Sequence Analysis
☐ Ketotic Hypoglycemia Panel	CHARGE Syndrome:



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*For Cancer tests please use the Cancer Test Requisition. Page 4 of 10	DO NOT HANDWRITE PATIENT INFORMATION HERE
Single Gene and Region Specific Testing (cont'd)	Single Gene and Region Specific Testing (cont'd)
Congenital Central Hypoventilation Syndrome:	SMARCB1 Related Disorders:
☐ PHOX2B Sequence Analysis including polyalanine repeat analysis	☐ SMARCB1 Sequence Analysis
Craniofrontonasal Syndrome:	☐ SMARCB1 Deletion/Duplication Analysis
☐ EFNB1 Sequence Analysis	SHOX Related Disorders:
☐ EFNB1 Deletion/Duplication Analysis	☐ SHOX Deletion/Duplication Analysis
Cystic Fibrosis:	☐ SHOX Sequence Analysis
☐ CFTR Sequence And Deletion/Duplication Analysis	STRC-Related Hearing Loss:
DFNB1-Related Hearing Loss:	☐ STRC Deletion/Duplication Analysis
☐ DFNB1 locus testing (GJB2 sequence analysis and targeted deletion	☐ STRC Sequence Analysis
testing for the ΔGJB6-D13S1830 variant)	Thalassemia/Sickle Cell Disease:
☐ GJB2 sequencing	☐ Sickle Cell Disease Globin Panel (sequencing of HBB and Deletion/
☐ Targeted deletion testing for the ΔGJB6-D13S1830 variant	Duplication Analysis of HBB, HBA1, HBA2)
Fragile X Syndrome:	☐ Alpha Globin ( <i>HBA1</i> and <i>HBA2</i> ) Deletion/Duplication Analysis
☐ Triplet Repeat Analysis Gilbert's Syndrome:	☐ Alpha Globin ( <i>HBA1</i> and <i>HBA2</i> ) Sequence Analysis
☐ UGT1A1 Promoter Analysis	☐ Beta Globin ( <i>HBB</i> ) Sequence Analysis
Hereditary Leiomyomatosis and Renal Cell Carcinoma:	☐ Beta Globin ( <i>HBB</i> ) Deletion/Duplication Analysis
FH Sequence Analysis	Thrombophilia:
☐ FH Deletion/Duplication Analysis	☐ Factor II Sequence Analysis for c.*97G>A
Li Fraumeni:	☐ Factor V Sequence Analysis for c.1601G>A
☐ TP53 Sequence Analysis	Von Hippel Lindau:
☐ TP53 Deletion/Duplication Analysis	☐ VHL Sequence Analysis
Marfan Syndrome:	☐ VHL Deletion/Duplication Analysis
☐ FBN1 Sequence And Deletion/Duplication Analysis	, ,
Multiple Endocrine Neoplasia, Type 2:	Pharmacogenomic Testing
☐ RET Sequence Analysis	
☐ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer	Mercaptopurine Intolerance:
☐ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition):	Mercaptopurine Intolerance:  □ NUDT15 Sequence Analysis
☐ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition): ☐ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and	Mercaptopurine Intolerance:
☐ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer  Test Requisition): ☐ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B)	Mercaptopurine Intolerance:  ☐ NUDT15 Sequence Analysis ☐ TPMT Sequence Analysis
<ul> <li>☐ RET Sequence Analysis</li> <li>Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition):</li> <li>☐ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B)</li> <li>☐ ALK Sequence Analysis</li> </ul>	Mercaptopurine Intolerance:  NUDT15 Sequence Analysis TPMT Sequence Analysis  Maternal Cell Contamination
☐ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition): ☐ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B) ☐ ALK Sequence Analysis ☐ PHOX2B Sequence Analysis	Mercaptopurine Intolerance:  NUDT15 Sequence Analysis TPMT Sequence Analysis  Maternal Cell Contamination  Maternal Cell Contamination:
☐ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition): ☐ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B) ☐ ALK Sequence Analysis ☐ PHOX2B Sequence Analysis Opitz G/BBB Syndrome:	Mercaptopurine Intolerance:  NUDT15 Sequence Analysis TPMT Sequence Analysis  Maternal Cell Contamination  Maternal Cell Contamination:  Child/Fetal sample assessment
<ul> <li>□ RET Sequence Analysis</li> <li>Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition):</li> <li>□ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B)</li> <li>□ ALK Sequence Analysis</li> <li>□ PHOX2B Sequence Analysis</li> <li>Opitz G/BBB Syndrome:</li> <li>□ MID1 Sequence Analysis</li> </ul>	Mercaptopurine Intolerance:  NUDT15 Sequence Analysis  TPMT Sequence Analysis  Maternal Cell Contamination  Maternal Cell Contamination:  Child/Fetal sample assessment  Maternal comparative sample assessment
□ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition): □ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B) □ ALK Sequence Analysis □ PHOX2B Sequence Analysis Opitz G/BBB Syndrome: □ MID1 Sequence Analysis □ MID1 Deletion/Duplication Analysis	Mercaptopurine Intolerance:  NUDT15 Sequence Analysis TPMT Sequence Analysis  Maternal Cell Contamination  Maternal Cell Contamination:  Child/Fetal sample assessment
<ul> <li>□ RET Sequence Analysis</li> <li>Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition):</li> <li>□ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B)</li> <li>□ ALK Sequence Analysis</li> <li>□ PHOX2B Sequence Analysis</li> <li>Opitz G/BBB Syndrome:</li> <li>□ MID1 Sequence Analysis</li> </ul>	Mercaptopurine Intolerance:    NUDT15 Sequence Analysis   TPMT Sequence Analysis    Maternal Cell Contamination    Child/Fetal sample assessment   Maternal comparative sample assessment *Paternity testing not performed.
□ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition): □ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B) □ ALK Sequence Analysis □ PHOX2B Sequence Analysis Opitz G/BBB Syndrome: □ MID1 Sequence Analysis □ MID1 Deletion/Duplication Analysis PTEN Related Autism/PTEN Hamartoma Tumor Syndrome:	Mercaptopurine Intolerance:  NUDT15 Sequence Analysis  TPMT Sequence Analysis  Maternal Cell Contamination  Maternal Cell Contamination:  Child/Fetal sample assessment  Maternal comparative sample assessment
□ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition): □ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B) □ ALK Sequence Analysis □ PHOX2B Sequence Analysis □ PHOX2B Sequence Analysis □ MID1 Sequence Analysis □ MID1 Deletion/Duplication Analysis □ PTEN Related Autism/PTEN Hamartoma Tumor Syndrome: □ PTEN Sequence Analysis □ PTEN Deletion/Duplication Analysis □ PTEN Deletion/Duplication Analysis □ PTEN Sequence Analysis □ PTEN Sequence Analysis □ PTEN Sequence Analysis □ PTEN Sequence Analysis	Mercaptopurine Intolerance:    NUDT15 Sequence Analysis   TPMT Sequence Analysis    Maternal Cell Contamination    Child/Fetal sample assessment   Maternal comparative sample assessment *Paternity testing not performed.
□ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition): □ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B) □ ALK Sequence Analysis □ PHOX2B Sequence Analysis □ PHOX2B Sequence Analysis □ MID1 Sequence Analysis □ MID1 Deletion/Duplication Analysis □ TEN Related Autism/PTEN Hamartoma Tumor Syndrome: □ PTEN Sequence Analysis □ PTEN Deletion/Duplication Analysis Prader-Willi Syndrome: □ Chromosome 15 Methylation Analysis	Mercaptopurine Intolerance:  NUDT15 Sequence Analysis  TPMT Sequence Analysis  Maternal Cell Contamination  Maternal Cell Contamination:  Child/Fetal sample assessment  Maternal comparative sample assessment  *Paternity testing not performed.  Known Variant Testing
□ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition): □ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B) □ ALK Sequence Analysis □ PHOX2B Sequence Analysis □ PHOX2B Sequence Analysis □ MID1 Sequence Analysis □ MID1 Deletion/Duplication Analysis □ TEN Related Autism/PTEN Hamartoma Tumor Syndrome: □ PTEN Sequence Analysis □ PTEN Deletion/Duplication Analysis □ PTEN Deletion/Duplication Analysis  Prader-Willi Syndrome: □ Chromosome 15 Methylation Analysis  Rett Syndrome:	Mercaptopurine Intolerance:  NUDT15 Sequence Analysis  TPMT Sequence Analysis  Maternal Cell Contamination  Maternal Cell Contamination:  Child/Fetal sample assessment  Maternal comparative sample assessment  *Paternity testing not performed.  Known Variant Testing  Please fill out the known genetic abnormality section on page 2
□ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition): □ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B) □ ALK Sequence Analysis □ PHOX2B Sequence Analysis □ PHOX2B Sequence Analysis □ MID1 Sequence Analysis □ MID1 Deletion/Duplication Analysis □ TEN Related Autism/PTEN Hamartoma Tumor Syndrome: □ PTEN Sequence Analysis □ PTEN Deletion/Duplication Analysis □ PTEN Deletion/Duplication Analysis □ Chromosome 15 Methylation Analysis  Rett Syndrome: □ MECP2 Sequence Analysis	Mercaptopurine Intolerance:  NUDT15 Sequence Analysis  TPMT Sequence Analysis  Maternal Cell Contamination  Maternal Cell Contamination:  Child/Fetal sample assessment  Maternal comparative sample assessment *Paternity testing not performed.  Known Variant Testing  Please fill out the known genetic abnormality section on page 2 Sequencing Variant*
□ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition): □ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B) □ ALK Sequence Analysis □ PHOX2B Sequence Analysis □ PHOX2B Sequence Analysis □ MID1 Sequence Analysis □ MID1 Deletion/Duplication Analysis □ PTEN Related Autism/PTEN Hamartoma Tumor Syndrome: □ PTEN Sequence Analysis □ PTEN Deletion/Duplication Analysis Prader-Willi Syndrome: □ Chromosome 15 Methylation Analysis Rett Syndrome: □ MECP2 Sequence Analysis □ MECP2 Deletion/Duplication Analysis	Mercaptopurine Intolerance:  NUDT15 Sequence Analysis  TPMT Sequence Analysis  Maternal Cell Contamination  Maternal Cell Contamination:  Child/Fetal sample assessment  Maternal comparative sample assessment *Paternity testing not performed.  Known Variant Testing  Please fill out the known genetic abnormality section on page 2 Sequencing Variant*  Sequence Variant
□ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition): □ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B) □ ALK Sequence Analysis □ PHOX2B Sequence Analysis ○ Opitz G/BBB Syndrome: □ MID1 Sequence Analysis □ MID1 Deletion/Duplication Analysis ■ TEN Related Autism/PTEN Hamartoma Tumor Syndrome: □ PTEN Sequence Analysis □ PTEN Deletion/Duplication Analysis ■ PTEN Deletion/Duplication Analysis ■ PTEN Sequence Analysis □ Chromosome 15 Methylation Analysis  Rett Syndrome: □ MECP2 Sequence Analysis □ MECP2 Deletion/Duplication Analysis Saethre Chotzen Syndrome Panel:	Mercaptopurine Intolerance:  NUDT15 Sequence Analysis  TPMT Sequence Analysis  Maternal Cell Contamination  Maternal Cell Contamination:  Child/Fetal sample assessment  Maternal comparative sample assessment *Paternity testing not performed.  Known Variant Testing  Please fill out the known genetic abnormality section on page 2 Sequencing Variant*  Sequence Variant Copy Number Variant*
□ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition): □ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B) □ ALK Sequence Analysis □ PHOX2B Sequence Analysis ○ Opitz G/BBB Syndrome: □ MID1 Sequence Analysis □ MID1 Deletion/Duplication Analysis  PTEN Related Autism/PTEN Hamartoma Tumor Syndrome: □ PTEN Sequence Analysis □ PTEN Deletion/Duplication Analysis  Prader-Willi Syndrome: □ Chromosome 15 Methylation Analysis  Rett Syndrome: □ MECP2 Sequence Analysis □ MECP2 Deletion/Duplication Analysis  Saethre Chotzen Syndrome Panel: □ TWIST1 Sequence Analysis	Mercaptopurine Intolerance:    NUDT15 Sequence Analysis     TPMT Sequence Analysis     Maternal Cell Contamination     Child/Fetal sample assessment     Maternal comparative sample assessment *Paternity testing not performed.    Known Variant Testing
□ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition): □ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B) □ ALK Sequence Analysis □ PHOX2B Sequence Analysis □ PHOX2B Sequence Analysis □ MID1 Sequence Analysis □ MID1 Deletion/Duplication Analysis □ PTEN Related Autism/PTEN Hamartoma Tumor Syndrome: □ PTEN Sequence Analysis □ PTEN Deletion/Duplication Analysis  Prader-Willi Syndrome: □ Chromosome 15 Methylation Analysis  Rett Syndrome: □ MECP2 Sequence Analysis □ MECP2 Deletion/Duplication Analysis  Saethre Chotzen Syndrome Panel: □ TWIST1 Sequence Analysis □ TWIST1 Deletion/Duplication Analysis and FGFR3 Analysis for	Mercaptopurine Intolerance:    NUDT15 Sequence Analysis     TPMT Sequence Analysis     Maternal Cell Contamination     Child/Fetal sample assessment     Maternal comparative sample assessment *Paternity testing not performed.    Known Variant Testing
□ RET Sequence Analysis  Neuroblastoma (Germline Analysis- For somatic testing, see Cancer Test Requisition): □ ALK/PHOX2B Panel (Sequencing Analysis of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B) □ ALK Sequence Analysis □ PHOX2B Sequence Analysis ○ Opitz G/BBB Syndrome: □ MID1 Sequence Analysis □ MID1 Deletion/Duplication Analysis  PTEN Related Autism/PTEN Hamartoma Tumor Syndrome: □ PTEN Sequence Analysis □ PTEN Deletion/Duplication Analysis  Prader-Willi Syndrome: □ Chromosome 15 Methylation Analysis  Rett Syndrome: □ MECP2 Sequence Analysis □ MECP2 Deletion/Duplication Analysis  Saethre Chotzen Syndrome Panel: □ TWIST1 Sequence Analysis	Mercaptopurine Intolerance:    NUDT15 Sequence Analysis     TPMT Sequence Analysis     Maternal Cell Contamination     Child/Fetal sample assessment     Maternal comparative sample assessment *Paternity testing not performed.    Known Variant Testing

PANEL TESTING: GENE CONTENT  The following panels include both sequence and copy number analysis, unless otherwise indicated. * Designates panels/genes with analysis by sequencing only; **  Designates genes with copy number analysis only. For CPT codes and turnaround times, please visit our website at https://www.testmenu.com/chop.	
Alagille Syndrome Panel	JAG1, NOTCH2
Alport Syndrome Panel	COL4A3, COL4A4, COL4A5, COL4A6
Branchiootorenal Spectrum Disorder Panel	EYA1, SIX1, SIX5
Cholestasis Panel	ABCB4, ABCB11, ABCC2, AKR1D1, ATP8B1, BAAT, CFTR <sup>o</sup> , CLDN1, HNF1A, HNF1B, HSD3B7, JAG1, KIF12, LIPA, MYO5B, NOTCH2, NPC1, NPC2, NR1H4, SERPINA1, SLC25A13, TJP2, UNC45A, VIPAS39, VPS33B
	Poeep intronic variants c.3718-2477 and c.1680-886A>G and the intron 8 poly T tract in CFTR are included in the analysis.
Congenital Diarrhea Panel	APOB, ARX, CD55, CFTR*, DGAT1, EPCAM, FLNA, GUCY2C, LCT, LIPA, MTTP, MYO5B, NEUROG3, PCSK1, PLVAP, PNLIP, RFX6, SAR1B, SBDS, SI, SKIV2L, SLC10A2, SLC26A3, SLC39A4, SLC51B, SLC5A1, SLC9A3, SPINT2, STX3, TTC37, UNC45A, WNT2B
	Deep intronic variants c.3718-2477 and c.1680-886A>G and the intron 8 poly T tract in CFTR are included in the analysis.



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PANEL TESTING: GENE CONTENT  The following panels include both sequence and copy number analysis, unless otherwise indicated. * Designates panels/genes with analysis by sequencing only; **  Designates genes with copy number analysis only. For CPT codes and turnaround times, please visit our website at https://www.testmenu.com/chop.		
Connective Tissue Panel	ACTA2, B3GAT3, BGN, C1R, C1S, COL1A1, COL1A2, COL3A1, COL4A5, COL5A1, COL5A2, EFEMP2, ELN, EPHB4, FBLN5, FBN1, FBN2, FLNA, FOXE3, GATA5, LOX, MAT2A, MED12, MFAP5, MYH11, MYLK, NOTCH1, PLOD1, PLOD3, PRKG1*, SKI, SLC2A10, SMAD2, SMAD3, SMAD4, SMAD6, TGFB2, TGFB3, TGFBR1, TGFBR2	
Cornelia de Lange Syndrome Panel	AFF4, ANKRD11, ASXL1, ASXL3, HDAC8, NIPBL, PACS1, RAD21, SMC1A, SMC3	
Craniofacial Panel	ALPL, ALX1, ALX3, ALX4, CD96, CHD7, DHODH, EFNB1, EFTUD2, ERF, EVC, EVC2, EYA1, FGFR1, FGFR2, FGFR3, GLI3, IFT122, IFT43, MEGF8, MIR17HG**, MSX2, MYCN, PDE4D, PLCB4, POLR1C, POLR1D, POR, PRKAR1A, RAB23, RECQL4, RUNX2, SALL1, SF3B4, SIX1, SIX5, SKI, SPECC1L, TCF12, TCOF1, TWIST1, WDR19, WDR35, ZIC1	
Craniosynostosis Panel	ASXL1, CD96, EFNB1, ERF, FGFR1, FGFR2, FGFR3, IFT122, IFT43, MEGF8, MSX2, POR, RAB23, RECQL4, RUNX2, SKI, SMAD6, SPECC1L, TCF12, TWIST1, WDR35, ZIC1	
Epilepsy Panel	ALDH5A1, ALDH7A1, ALG13, ANKRD11, AP3B2, ARHGEF9, ARID1B, ARX, ASAH1, ASXL3, ATP1A2, ATP1A3, CACNA1A, CACNA1E, CACNA1I, CARS2, CASR, CDKL5, CERT1, CHD2, CHRNA2, CHRNA4, CHRNB2, CLCN4, CLN3, CLN5, CLN6, CLN8, CNKSR2, CTSD, CTSF, DCX, DDX3X, DEPDC5, DNM1, DYNC1H1, DYRK1A, EEF1A2, EPM2A, FGF12, FOLR1, FOXG1, FRRS1L, GABRA1, GABRB2, GABRB3, GABRG2, GAMT, GNB1, GRIN1, GRIN2A, GRIN2B, HCN1, HNRNPU, IQSEC2, ITPA, KCNA1, KCNA2, KCNB1, KCNC1, KCNH1, KCNJ10, KCNMA1, KCNQ2, KCNQ3, KCNQ5, KCNT1, KCTD7, LGI1, MBD5, MECP2, MEF2C, MFSD8, MTOR, NBEA, NEXMIF, NHLRC1, NPRL3, PACS2, PCDH19, PGAP3, PIGA, PIGN, PIGV, PNKP, PNPO, POLG, PPP3CA, PPT1, PRICKLE1, PRRT2, PURA, QARS1, ROGDI, RORB, SCARB2, SCN1A, SCN1B, SCN2A, SCN3A, SCN8A, SERPINI1, SLC12A5, SLC13A5, SLC19A3, SLC25A12, SLC25A22, SLC2A1, SLC35A2, SLC6A1, SLC6A8, SMC1A, SNAP25, SPATA5, ST3GAL5, SYNJ1, STX1B, STXBP1, SYN1, SYNGAP1, TBC1D24, TBCK, TCF4, TPK1, TPP1, TSC1, TSC2, UBA5, UBE3A, UGDH, WDR45, WWOX, ZEB2	
Hearing loss Panel (Comprehensive AUDIOME)	ABHD12, ACTG1*, ADCY1, ADGRV1, AIFM1, ALMS1, ATP2B2, ATP6V1B1, ATP6V1B2, BCS1L, BSND, CABP2, CACNA1D, CCDC50, CD164, CDC14A, CDH23, CEACAM16, CEP78, CIB2, CISD2, CLDN9, CLDN14, CLIC5, CLPP, CLRN1, COCH*, COL11A1, COL11A2, COL2A1, COL4A3, COL4A4, COL4A5, COL4A6**, COL9A1, COL9A2, COL9A3, CRYM*, DIABLO*, DIAPH1, DIAPH3*, EDN3, EDNRB, EPS8, ELMOD3, EPS8L2, ESPN, ESRP1, ESRRB, EYA1, EYA4, FGF3, GATA3, GIPC3, GJB2, GJB6**, GPSM2, GRHL2, GRXCR1, GRXCR2, GSDME (DFNA5), HARS2, HGF, HOMER2*, HSD17B4, ILDR1, KARS1, KCNQ1, KCNQ4, KITLG, LARS2, LHFPL5, LMX1A, LOXHD1, LRTOMT, MARVELD2, MIR96*, MITF, MPZL2, MSRB3, MT-RNR1 (m.1555A>G)*, MT-TS1 (m.7445A>G)*, MYH14*, MYH9, MYO15A, MYO3A, MYO6, MYO7A, OPA1, OSBPL2, OTOA, OTOF, OTOG, OTOGL, P2RX2*, PAX3, PCDH15, PDZD7, PJVK, PLS1*, POU3F4, POU4F3, PRPS1, PTPRQ, RDX, RIPOR2, S1PR2, SERPINB6, SIX1, SLC17A8, SLC26A4, SLC12A2*, SLC52A3, SLITRK6, SMPX, SNAI2, SOX10, STRC, SYNE4, TBC1D24, TECTA, TIMM8A, TJP2*, TMC1, TMEM132E, TMIE, TMPRSS3, TPRN, TRIOBP, TUBB4B, TWNK, USH1C, USH1G, USH2A, WFS1, WHRN	
	<sup>®</sup> Targeted variant analysis only is performed for these genes.	
Hemophagocytic Lymphohistiocytosis (HLH) Panel	AP3B1, AP3D1, BLOC1S6, CARMIL2, CD27, CD70, CTPS1, CYBA, CYBB, FAAP24, HPS6, IFNGR1, IFNGR2, IL12RB1, IRF8, ITK, LYST, MAGT1, MCM4, NCF2, IKBKG*, NFKB1, PIK3CD*, PIK3R1, PRF1, PRKCD, RAB27A, RASGRP1, SH2D1A, SLC7A7, STAT1, STX11, STXBP2, STXBP3, UNC13D*, XIAP	
	*Analysis of the pathogenic recurrent 253kb inversion in the UNC13D gene is included.	
Kabuki Syndrome Panel	KMT2D, KDM6A	
Ketotic Hypoglycemia Panel	ACAT1, AGL, G6PC, GYS2, OXCT1, PHKA2, PHKB, PHKG2, PYGL, SLC16A1, SLC37A4	
Neonatal Respiratory Distress Panel	ABCA3, AP3B1, COPA, CSF2RA, CSF2RB, CTC1, DKC1, FARSB, FLNA, FOXF1 <sup>\$</sup> , HPS1, HPS4, ITGA3, JAG1, MARS, NKX2-1, NOTCH2, OAS1, PARN, RTEL1, SFTPB, SFTPC, SLC7A7, TERC, TERT, TINF2	
	<sup>5</sup> The upstream regulatory region of the <i>FOXF1</i> gene is included in the analysis.	
Noonan Spectrum Disorders Panel	A2ML1*, BRAF*, CBL*, HRAS*, KRAS*, LZTR1, MAP2K1*, MAP2K2*, MRAS*, NF1*, NRAS*, PPP1CB*, PTPN11*, RAF1*, RASA2*, RIT1*, RRAS*, SHOC2*, SOS1*, SOS2*, SPRED1	
Osteogenesis Imperfecta Panel	COL1A1, COL1A2, IFITM5*	
Hereditary Pancreatitis Panel	CASR, CFTR®, CTRC, PRSS1, SPINK1	
	* Deep intronic variants c.3718-2477 and c.1680-886A>G and the intron 8 poly T tract in <i>CFTR</i> are included in the analysis.	
Pneumothorax Panel	COL3A1, FBN1, FLCN, TGFBR1, TGFBR2	
Primary Ciliary Dyskinesia Panel	CCDC39, CCDC40, CCDC65, CCDC103, CCNO, CFAP298, CFAP300, CFTR°, DNAAF1, DNAAF2, DNAAF3, DNAAF4, DNAAF5, DNAAF6, DNAAF11, DNAH1, DNAH5, DNAH6, DNAH8, DNAH9, DNAH11, DNAI1, DNAI2, DNAJB13, DNAL1, DRC1, GAS8, INVS, MCIDAS, NME8, ODAD1, ODAD2, ODAD3, ODAD4, OFD1, RPGR, RSPH1, RSPH3, RSPH4A, RSPH9, SPAG1, ZMYND10	
	° Deep intronic variants c.3718-2477 and c.1680-886A>G and the intron 8 poly T tract in <i>CFTR</i> are included in the analysis.	



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PANEL TESTING: GENE CONTENT  The following panels include both sequence and copy number analysis, unless otherwise indicated. * Designates panels/genes with analysis by sequencing only; **  Designates genes with copy number analysis only. For CPT codes and turnaround times, please visit our website at https://www.testmenu.com/chop.		
Pulmonary Arterial Hypertension Panel	ABCC8, ACVRL1, BMPR1B, BMPR2, CAV1, EIF2AK4, ENG, FOXF1 <sup>s</sup> , GDF2, KCNA5, KCNK3, RASA1, SMAD4, SMAD9, SOX17, TBX4	
	<sup>\$</sup> The upstream regulatory region of the <i>FOXF1</i> gene is included in the analysis.	
Comprehensive Pulmonary-Vascular Panel	ABCA3, ABCC8, ACVRL1, AP3B1, BMPR1B, BMPR2, CAV1, CCDC39, CCDC40, CCDC65, CCDC103, CCNO, CFAP298, CFAP300, CFTR*, COPA, CSF2RA, CSF2RB, CTC1, DKC1, DNAAF1, DNAAF2, DNAAF3, DNAAF4, DNAAF5, DNAAF6, DNAAF6, DNAH5, DNAH6, DNAH6, DNAH9, DNAH11, DNAI1, DNAI2, DNAJB13, DNAL1, DRC1, EIF2AK4, ENG, FARSB, FLNA, FOXF1\$, GAS8, GDF2, HPS1, HPS4, INVS, ITGA3, JAG1, KCNA5, KCNK3, MARS1, MCIDAS, NKX2-1, NME8, NOTCH2, OAS1, ODAD1, ODAD2, ODAD3, ODAD4, OFD1, PARN, RASA1, RPGR, RSPH1, RSPH3, RSPH4A, RSPH9, RTEL1, SCNN1A, SCNN1B, SCNN1G, SFTPB, SFTPC, SLC7A7, SMAD4, SMAD9, SOX17, SPAG1, TBX4, TERC, TERT, TINF2, ZMYND10	
	Deep intronic variants c.3718-2477 and c.1680-886A>G and the intron 8 poly T tract in CFTR are included in the analysis.      The protocol of the COVER are included in the analysis.	
	*The upstream regulatory region of the FOXF1 gene is included in the analysis.	
Rubinstein-Taybi Syndrome Panel	CREBBP, EP300	
Sickle Cell Disease Globin Panel	HBB, HBA1**, HBA2**	
Stickler Syndrome Panel	COL2A1, COL9A1, COL9A2, COL9A3, COL11A1, COL11A2, VCAN	
Very Early Onset Inflammatory Bowel Disease (VEO-IBD) Panel	ADA, ADAM17, AICDA, AIRE, ARPC1B, BTK, CD19, CD40, CD40LG, CD81, CHD7, CIITA, COL7A1, CR2, CTLA4, CYBA, CYBB, DCLRE1C, DKC1, DOCK8, FERMT1, FOXP3, FUT2, G6PC3, HPS1, HPS4, HPS6, ICOS, IKBKB, IKBKG*, IKZF1, IL10, IL10RA, IL10RB, IL21, IL23R, IL2RA, IL2RG, IL7R, ITCH, ITGB2, ITK, LCK, LIG4, LRBA, LYST, MALT1, MEFV, MVK, MYO5A, NCF2, NCF4, NFAT5, NFKB1, NFKB2, NLRC4, NLRP12, NOP10, PIK3R1, PLCG2, PRF1, PTEN, RAB27A, RAC1, RAC2, RAG1, RAG2, RET, RFX5, RFXANK, RFXAP, RTEL1, SH2D1A, SKIV2L, SLC37A4, STAT1, STAT3, STAT5A, STAT5B, STX3, STXBP2, STXBP3, TAP1, TAP2, TERC, TERT, TINF2, TNFAIP3, TNFAIP6, TNFRSF13B, TRAF3, TTC37, TTC7A, UNC13D*, UNG, WAS, XIAP, ZAP70	
	#Analysis of the pathogenic recurrent 253kb inversion in the UNC13D gene is included.	
Waardenburg Syndrome Panel	EDN3, EDNRB, MITF, PAX3, SNAI2, SOX10	
Cancer (Germline) Panel Testing: Comprehensive	Hereditary Cancer Testing	
Comprehensive Hereditary Cancer Panel	ABCB11, ALK*, APC, ARID5B, ATM, AXIN2, BAP1, BARD1, BLM, BMPR1A, BRCA1, BRCA2, BRIP1, BUB1B, CBL*, CDC73, CDH1, CDK4*, CDKN1B, CDKN1C, CDKN2A, CEBPA, CEBPE, CHEK2, COL7A1, CYLD, DDB2, DDX41, DICER1, DIS3L2, DKC1, DOCK8, EGFR, ELANE*, EPCAM**, ERCC2, ERCC3, ERCC4, ERCC5, ETV6, EXT1, EXT2, FAH, FANCA, FANCC, FANCG, FAS, FH, FLCN, G6PC3, GATA2, GBA, GJB2*, GPC3, HABP2, HAX1, HFE, HMBS, HRAS*, IKZF1, ITK, KIT*, KRAS*, MAX, MEN1, MET*, MLH1, MPL, MSH2, MSH6, MTAP, MUTYH, NBN, NF1, NF2, PALB2, PAX5, PDGFRA*, PHOX2B, PMS2, POLD1*, POLE*, POLH, PRKAR1A, PRSS1, PTCH1, PTEN, PTPN11*, RAD50, RAD51C, RAD51D, RB1, RECQL4, RET*, RHBDF2*, RMRP, RUNX1, SBDS, SDHA, SDHAF2, SDHB, SDHC, SDHD, SERPINA1, SH2B3, SH2D1A, SLC25A13, SMAD4, SMARCA4, SMARCB1, SMARCE1, SOS1*, SRY, STAT3, STK11, SUFU, TERT, TGFBR1, TMEM127, TP53, TRIM37, TSC1, TSC2, UROD, VHL, WAS, WRN, WT1, XPA, XPC	
Hereditary Breast/Gyn Cancer Panel	ATM, BARD1, BRCA1, BRCA2, BRIP1, CDH1, CHEK2, EPCAM**, ERCC4, FANCA, ITK, MEN1, MLH1, MSH2, MSH6, MUTYH, NBN, NF1, PALB2, PMS2, PTEN, RAD50, RAD51C, RAD51D, SMARCA4, STK11, TP53, WRN	
Hereditary High-Risk Breast Cancer Panel	BRCA1, BRCA2, CDH1, PALB2, PTEN, STK11, TP53	
Hereditary High-Risk Colon Cancer Panel	APC, BMPR1A, EPCAM**, MLH1, MSH2, MSH6, MUTYH, PMS2, PTEN, SMAD4, STK11, TP53	
Hereditary Leukemia/Lymphoma Panel	ATM, BRCA1, BRCA2, BRIP1, CBL*, CEBPA, CHEK2, DDX41, ETV6, FAS, G6PC3, GATA2, HAX1, HFE, IKZF1, ITK, KRAS*, MPL, NBN, NF1, PALB2, PAX5, PTPN11*, RUNX1, SBDS, SH2B3, SH2D1A, STAT3, TERT, TP53, WAS	
Hereditary Paraganglioma/Pheochromocytoma Panel	FH, MAX, MEN1, NF1, RET*, SDHA, SDHAF2, SDHB, SDHC, SDHD, TMEM127, VHL	
Hereditary Cancer Panels: Bone Marrow Failure/M	yelodysplastic Syndrome/Leukemia Testing	
Comprehensive Bone Marrow Failure (BMF)/ Myelodysplastic Syndrome (MDS)/Leukemia Predisposition Panel	ABCB7, ACD, AK2, ALAS2, ANKRD26*, APC, ATM, ATR, BLM, BRCA1, BRCA2, BRIP1, CBL*, CDAN1, CDIN1, CDKN2A, CEBPA, CHEK2, CSF3R, CTC1, CXCR4*, DDX11, DDX41, DKC1, ELANE*, EPCAM**, ERCC4, ESCO2, ETV6, FANCA, FANCB, FANCC, FANCD, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, G6PC3, GATA1, GATA2, GFI1*, GLRX5, HAX1, KIF23, KLF1, KRAS*, LAMTOR2, LIG4, LYST, MLH1, MPL, MSH2, MSH6, NBN, NF1, NF2, NHEJ1, NHP2, NOP10, PALB2, PARN, PAX5, PMS2, PTPN11*, RAB27A, RAC2*, RAD51, RAD51C, RAF1*, RBM8A, RECQL, RMRP, RPL11, RPL15, RPL19, RPL26, RPL27, RPL35A, RPL5, RPS10, RPS17, RPS19, RPS24, RPS26, RPS27, RPS29, RPS7, RTEL1, RUNX1, SAMD9*, SAMD9L*, SBDS, SEC23B, SH2B3, SLC25A38, SLC37A4, SLX4, SOS1*, SRP72, TAFAZZIN, TERC, TERT, TINF2, TP53, USB1, VPS13B, VPS45, WAS, WIPF1, WRAP53	



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PANEL TESTING: GENE CONTENT  The following panels include both sequence and copy number analysis, unless otherwise indicated. * Designates panels/genes with analysis by sequencing only; **  Designates genes with copy number analysis only. For CPT codes and turnaround times, please visit our website at https://www.testmenu.com/chop.		
Bone Marrow Failure Panel	ABCB7, ACD, AK2, ALAS2, ANKRD26*, ATM, ATR, BLM, BRCA1, BRCA2, BRIP1, CBL*, CDAN1, CDIN1, CSF3R, CTC1, CXCR4*, DDX11, DKC1, ELANE*, ERCC4, ESCO2, ETV6, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, G6PC3, GATA1, GATA2, GFI1*, GLRX5, HAX1, KIF23, KLF1, LAMTOR2, LYST, MPL, NBN, NHP2, NOP10, PALB2, PARN, RAB27A, RAC2*, RAD51, RAD51C, RBM8A, RMRP, RPL11, RPL15, RPL19, RPL26, RPL27, RPL35A, RPL5, RPS10, RPS17, RPS19, RPS24, RPS26, RPS27, RPS29, RPS7, RTEL1, RUNX1, SAMD9*, SAMD9L*, SBDS, SEC23B, SLC25A38, SLC37A4, SLX4, SRP72, TAFAZZIN, TERC, TERT, TINF2, USB1, VPS13B, VPS45, WAS, WIPF1, WRAP53	
Fanconi Anemia NGS Panel	ATM, BLM, BRCA1, BRCA2, BRIP1, DDX11, ERCC4, ESCO2, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCI, FANCM, LIG4, NBN, NHEJ1, PALB2, RAD51, RAD51C, SLX4	
Inherited Neutropenia Panel	AP3B1, CSF3R, CXCR4*, ELANE*, G6PC3, GATA1, GATA2, GFI1*, HAX1, LAMTOR2, LYST, RAB27A, RAC2*, RMRP, SBDS, SLC37A4, TAFAZZIN, USB1, VPS13B, VPS45, WAS, WIPF1	
Inherited Red Blood Cell Disorder Panel	ABCB7, ABCG5, ABCG8, AK1, ALAS2, ALDOA, ANK1, CDAN1, CDIN1, EPB41, EPB42, G6PD, GATA1, GCLC, GLRX5, GPI, GPX1, GSR, GSS, HK1, KCNN4, KIF23, KLF1, NT5C3A, PFKM, PGK1, PIEZO1, PKLR, RHAG, RPL11, RPL15, RPL19, RPL26, RPL27, RPL35A, RPL5, RPS10, RPS17, RPS19, RPS24, RPS26, RPS27, RPS29, RPS7, SEC23B, SLC25A38, SLC2A1, SLC4A1, SPTA1, SPTB, TPI1, XK	
Inherited Thrombocytopenia Panel	ABCG5, ABCG8, ACTN1*, ANKRD26* (including 5'UTR), AP3B1, CYCS, DIAPH1*, ETV6, FLI1, FLNA, GATA1, GFI1B, GP1BA, GP1BB, GP9, HOXA11, ITGA1, ITGA2B, ITGB3, MPL, MYH9*, NBEAL2, PRKACG, RBM8A, RUNX1, SRC*, SRP72, TPM4, TRPM7, TUBB1, WAS	
Telomere Disorder Panel	ACD, CTC1, DKC1, NHP2, NOP10, PARN, RTEL1, TERC, TERT, TINF2, WRAP53	



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HEARING LOSS HISTORY (required if Hearing Loss Panel requested on page 3)			
Age of onset: ☐ Congenital ☐ Childhood (pre-lingual) ☐ Childhood/Adolescence (post-lingual) ☐ Adulthood			
Type of hearing loss: ☐ Sensorineural ☐ Conductive ☐ Auditory neuropathy/dyssynchrony ☐ Mixed			
Laterality: ☐ Bilateral ☐ Unilateral-R ☐ Unilateral-L			
Progression: Stable Progressive Fluctuating Unknown			
Severity (PTA): *Please send audiogram if performed outside CHOP			
Left Ear (if sloping, check all that apply):  Mild (15-30dB) Moderate (31-50dB) Moderately-severe (51-70dB) Severe (71-90dB) Profound (>90db)			
Right Ear (if sloping, check all that apply):  Mild (15-30dB) Moderate (31-50dB) Moderately-severe (51-70dB) Severe (71-90dB)  Profound (>90db)			
Audiogram shape/frequencies:			
Left Ear: ☐ Flat (all frequencies) ☐ Sloping (high frequency) ☐ Saucer-shaped (mid frequency) ☐ Rising (low frequency)			
Right Ear: ☐ Flat (all frequencies ) ☐ Sloping (high frequency) ☐ Saucer-shaped (mid frequency) ☐ Rising (low frequency)			
Exposure to aminoglycoside antibiotics (e.g gentamicin, neomycin, tobramycin, amikacin):  □ No □ Yes □ Unknown			
Visual differences: ☐ No ☐ Yes			
Specify differences:			
Maternal Relative Information for Mitochondrial Testing (required if Mitochondrial Testing requested on page 4)			
A maternal relative may be submitted as part of this analysis at the time of proband specimen submission. If you are submitting a maternal relative please fill out the following information:			
Name:			
DOB:			
Relationship to proband:			
Specimen Source: Blood Saliva Muscle Other:			
Is this individual affected? ☐ Yes ☐ No			
If affected, what are this individual's symptoms?			



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### **Division of Genomic Diagnostics** GENOMIC DIAGNOSTICS TEST REQUISITION

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### Sample Requirements

Blood - The Panel Testing and Single Gene and Region Specific Testing menus require 3-5mL of blood in an EDTA (purple top) tube.

Chromosomal Microarray Analysis requires 3-5mL of blood in EDTA (purple top) tube and 3-5 mL of blood in a Sodium Heparin (dark green) tube.

The Chromosome Analysis testing menu requires 3-5mL of blood in Sodium Heparin (green top) tube.

Bone Marrow - For testing on a bone marrow aspirate, 3-5mL in an EDTA (purple top) tube is the preferred minimum. Please contact the lab for exceptions.

DNA - Most tests require 5-10ug of DNA with a minimum concentration of 50ng/uL. Panel testing requires 8ug of DNA. Please refer to the divisional website for specific amounts of DNA required for each test.

Cultured CVS Cells or Cultured Amniotic Fluid - This sample type requires 2 nearly confluent T-25 flasks. Please contact the laboratory if ordering prenatal testing.

Fresh or Frozen Tumor Tissue - For Cancer Testing, 0.5cm<sup>3</sup> of tissue is needed.

FFPE Sample - The lab prefers to receive tumor block but can also receive 4-6 scrolls cut 50 microns thick. Slides alone cannot be used for testing, but are useful to determine tumor percentage if scrolls are sent. If sending an FFPE block that needs to be returned please provide the FedEx or UPS account number to use for return shipment along with the return address. Please reach out to the GDL to confirm the testing schedule if sending cut formalin-fixed, paraffin embedded (FFPE) scrolls or slides.

#### **Shipping Instructions**

Samples should be shipped by overnight carrier to arrive Monday – Friday (9am-5pm) only.

Most samples should be sent at room temperature. Frozen tumor samples should be sent on dry ice.

Shipping address -

Children's Hospital of Philadelphia Genomic Diagnostics Laboratory 3615 Civic Center Blvd.

Abramson Research Center, 714J Philadelphia, PA 19104-4302

Phone: (267) 426-1447

#### **Necessary Documents**

Each sample should be sent with a completed **Test Requisition Form**, including billing information, and **Consent Form** (if applicable).

Previous Family Reports - Please include family member test reports if ordering known genetic abnormality/familial testing.

Results from Prior Testing - Please include results from prior genetic testing or other related reports (such as hemoglobin electrophoresis for thalassemia testing, pathology reports for any testing on tumors, or other testing that may provide necessary clinical information for genetic testing).

Pedigree – Please include a copy of the patient's family pedigree, especially if other family members are similarly affected. The pedigree should include genotype and phenotype information for all tested family members.



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### Division of Genomic Diagnostics GENOMIC DIAGNOSTICS TEST REQUISITION

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### **Billing Options (For Non-CHOP patients only)**

\*By using and sending this Requisition Form to CHOP Outreach Lab for laboratory testing, you, the sender, acknowledge and agree that you have read and agree to the CHOP Terms and Conditions posted at www.chop.edu/labs and agree to pay CHOP the rates in CHOP's fee schedule in effect on the date the specimen is received.

Institut	ional Billing Option	
ICD-10 Diagnosis Codes for Billing:		
Bill to Institution/Department:		
Address:		
Billing Contact:		
Phone:	Fax:	
Email:		
S	elf Pay Option	
Total Cost Approved:	Credit Card: ☐ Visa ☐ American Express ☐ Discover ☐ MC	
Name on Card:		
Cardholder Date of Birth: Month/Day/Year		
•		
Card Number:		
Expiration Date: Month/Year	CCV (security # on back):	
Billing Address:		
Phone:	Email:	
Cardholder Signature	Printed Name Date (Month/Day/Year) Time	
*Cardholders signature indicates authorization to bill Credit Card		