



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

\*For Cancer tests please use the Cancer Test Requisition. Page 1 of 10

LAST NAME

FIRST NAME

MR#

DOB

PLACE PATIENT LABEL HERE OR COMPLETE ABOVE

DO NOT HANDWRITE PATIENT INFORMATION HERE

SHIP TO: Children's Hospital of Philadelphia, Genomic Diagnostics Laboratory, 3615 Civic Center Blvd., Abramson Research Center, 714, Philadelphia, PA 19104-4302 - Phone: (267) 426-1447

PATIENT INFORMATION	SAMPLE INFORMATION
<p>Patient Name (Last, First, Middle): _____</p> <p>Ordering Facility MRN: _____</p> <p><input type="checkbox"/> Fetus of above patient (Check if prenatal sample)</p> <p>Sex: <input type="checkbox"/> Male <input type="checkbox"/> Female <input type="checkbox"/> Unknown <input type="checkbox"/> Other: _____</p> <p>Date of Birth (Month/Day/Year): _____</p> <p>Street Address: _____</p> <p>City/State: _____</p> <p>Zip/Country: _____</p> <p>Phone Number: (____) _____</p> <p>Race/Ethnicity:</p> <p><input type="checkbox"/> Amish <input type="checkbox"/> Asian <input type="checkbox"/> Black/African-American</p> <p><input type="checkbox"/> Caucasian <input type="checkbox"/> East Indian <input type="checkbox"/> French Canadian</p> <p><input type="checkbox"/> Hispanic <input type="checkbox"/> Jewish-Ashkenazi <input type="checkbox"/> Jewish-Sephardic</p> <p><input type="checkbox"/> Mediterranean <input type="checkbox"/> Native American</p> <p><input type="checkbox"/> Other: _____</p>	<p>Collection Date (Month/Day/Year): _____</p> <p>Did the patient previously have a bone marrow transplant? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Sample Type:</p> <p><input type="checkbox"/> Blood <span style="float: right;">Source of Blood:</span></p> <p><input type="checkbox"/> Purple Top Tube (EDTA) <span style="float: right;"><input type="checkbox"/> Peripheral</span></p> <p><input type="checkbox"/> Green Top Tube (Sodium Heparin) <span style="float: right;"><input type="checkbox"/> Cord Blood</span></p> <p><input type="checkbox"/> Other Tube (Specify): _____ <span style="float: right;"><input type="checkbox"/> Other (Specify): _____</span></p> <p><input type="checkbox"/> Cerebral Spinal Fluid</p> <p><input type="checkbox"/> *Cultured CVS Cells</p> <p><input type="checkbox"/> *Cultured Amniotic Fluid</p> <p><input type="checkbox"/> *Cheek Brush <input type="checkbox"/> *Saliva</p> <p><input type="checkbox"/> DNA: Specify Tissue of Origin: _____</p> <p><input type="checkbox"/> *Fresh Tissue</p> <p><input type="checkbox"/> *Frozen Tissue <input type="checkbox"/> OCT <input type="checkbox"/> Snap or Flash Frozen</p> <p><i>*Please contact the lab if sending this sample type</i></p> <p><input type="checkbox"/> Other (Specify): _____</p>

ORDERING PROVIDER	ORDERING LABORATORY	OTHER ORDERING PROVIDER / GENETIC COUNSELOR
<p>_____ Name (Last, First, Degree)</p> <p>(____) _____ Phone</p> <p>(____) _____ Fax</p> <p>_____ Institution</p> <p>_____ Street Address</p> <p>_____ City State</p> <p>_____ Zip Country</p> <p>_____ Email</p>	<p>_____ Name (Last, First, Degree)</p> <p>(____) _____ Phone</p> <p>(____) _____ Fax</p> <p>_____ Institution</p> <p>_____ Street Address</p> <p>_____ City State</p> <p>_____ Zip Country</p> <p>_____ Email</p>	<p>_____ Name (Last, First, Degree)</p> <p>(____) _____ Phone</p> <p>(____) _____ Fax</p> <p>_____ Email</p>

For Lab Use Only

Type of billing:  Institutional  CHOP  Self-pay  Institution called

Comments: \_\_\_\_\_

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Received by: \_\_\_\_\_ Received Date: \_\_\_\_\_ Received Time: \_\_\_\_\_ Sample: \_\_\_\_\_

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**INDICATION FOR TESTING**

**Reason for Testing** (please include pertinent history and findings): \_\_\_\_\_

\_\_\_\_\_

**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 Cells from Amniocentesis  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)?  Yes  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

**SEQUENTIAL TESTING**

If sequential testing is indicated for this patient, list the order of testing here, or number the tests in the menu:

Initial Test: \_\_\_\_\_ if  Positive/  Negative then:

Reflex to: \_\_\_\_\_ if  Positive/  Negative then:

Reflex to: \_\_\_\_\_ if  Positive/  Negative then:

Reflex to: \_\_\_\_\_

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**TEST MENU**

\*For known genetic abnormality/familial testing for any gene offered by the lab, please refer to the Known Genetic Abnormality section under "Indication for Testing."

**Chromosome Analysis**

**Chromosome Analysis:**

- Karyotype
- Mosaicism Screen
- Parental Study

**Fluorescence In Situ Hybridization (FISH):**

- Indicate specific syndrome or region of interest \_\_\_\_\_

\*Contact the lab to confirm availability of FISH probe. There are over 100 probes available.

**Parental/Familial study:**

- Indicate cytogenetic finding in family member and include a copy of the family member's report: \_\_\_\_\_

**DNA/RNA Extraction**

- DNA Extraction
- RNA Extraction

**Nuclear Genome Wide Testing**

**Chromosomal Microarray Analysis:**

- Chromosomal SNP Microarray
- Parental/Familial Studies (Genome Wide SNP Array)

**Medical Exome:**

- Please submit Exome requisition and consent documents available separately

**Panel Testing**

For a current list of genes on each panel please see pages 5, 6, 7

**Alagille Syndrome:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Alport Syndrome Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Angelman/Retts-Like Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Branchio-Oto-Renal Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Cancer (Germline) Panel Testing:**

**Comprehensive Hereditary Cancer Testing:**

- Comprehensive Hereditary Cancer Panel
- Hereditary Brain Tumor Panel
- Hereditary Breast, Ovarian, and Endometrial Cancer Panel
- Hereditary High-Risk Breast Cancer Panel
- Hereditary Colorectal and Gastrointestinal Cancer Panel
- Hereditary High-Risk Colorectal Cancer Panel
- Hereditary Neuroendocrine Cancer Panel
- Hereditary Kidney Panel
- Hereditary Melanoma Panel
- Hereditary Pancreatic Cancer Panel
- Hereditary Paraganglioma/Pheochromocytoma Panel
- Hereditary Prostate Cancer Panel
- Reflex to Comprehensive Hereditary Cancer Panel

**Panel Testing (cont'd)**

For a current list of genes on each panel please see pages 5, 6, 7

**Cancer (Germline) Panel Testing (cont'd):**

**Bone Marrow Failure/Myelodysplastic Syndrome/Leukemia Testing:**

- Comprehensive Bone Marrow Failure (BMF)/Myelodysplastic Syndrome (MDS)/Leukemia Predisposition Panel
- Bone Marrow Failure Panel
- Fanconi Anemia/Rare Chromosomal Breakage Disorders Panel
- Hereditary Myelodysplastic Syndrome/Leukemia Predisposition Panel
- Inherited Neutropenia Panel
- Inherited Red Blood Cell Disorder Panel
- Inherited Thrombocytopenia Panel
- Telomere Disorder Panel
- Reflex to Comprehensive BMF/MDS/Leukemia Predisposition Panel

**Cholestasis Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Congenital Diarrhea Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Connective Tissue Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Cornelia de Lange Syndrome Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Craniofacial Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Craniosynostosis Panel Testing:**

- Craniosynostosis Panel:**
  - Sequence Analysis
  - Deletion/Duplication Analysis

**Saethre Chotzen Syndrome Panel:**

- TWIST Sequence Analysis
- TWIST Deletion/Duplication Analysis and FGFR3 Analysis for p.Pro250Arg

**Epilepsy Panel Testing:**

**Epilepsy Panel:**

- Targeted exome based sequence and copy number analysis of epilepsy related genes

**Rapid Epilepsy Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Glycogen Storage Disease Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Hearing Loss Panel (AUDIOME): Hearing loss phenotype checklist must be completed on page 6**

- Tier 1: DFNB1 locus testing (GJB2 sequence analysis and targeted ΔGJB6-D13S1830 testing)
- Tier 2: Targeted exome and aCGH based sequence and copy number analysis of hearing loss related genes
- Tier 1, Reflex to Tier 2 – If Tier 1 is inconclusive or negative, reflex to Tier 2

**Humoral Dysfunction Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

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**Panel Testing (cont'd)**

For a current list of genes on each panel please see pages 5, 6, 7

**Kabuki Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Ketotic Hypoglycemia Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Neonatal Respiratory Distress Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Noonan Spectrum Disorders Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Osteogenesis Imperfecta Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Pancreatitis Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Pneumothorax Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Primary Ciliary Dyskinesia Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Pulmonary Arterial Hypertension Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Pulmonary-Vascular Panel, Comprehensive:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Rubinstein-Taybi Syndrome Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Severe Combined Immunodeficiency (SCID) Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Stickler Syndrome Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Very Early Onset Inflammatory Bowel Disease:**

- Targeted exome based sequence and copy number analysis of VEO-IBD related genes

**Waardenburg Syndrome Panel:**

- Sequence Analysis
- Deletion/Duplication Analysis

**Single Gene and Region Specific Testing**
**22q11.2 Deletion/Duplication (VCFS, Cat Eye Syndrome, Congenital Heart Defect, DiGeorge syndrome):**

- 22q11.2 Deletion/Duplication Analysis
- 22q11.2 Deletion/Duplication Analysis, if normal reflex to microarray

**Angelman Syndrome:**

- Chromosome 15 Methylation Analysis

**Birt-Hogg-Dube' Syndrome:**

- FLCN Sequence Analysis
- FLCN Deletion/Duplication Analysis

**Blephrophemosis-Ptoisis-Epicanthis Syndrome:**

- FOXL2 Sequence Analysis
- FOXL2 Deletion/Duplication Analysis

**Brooke Spiegler Syndrome:**

- CYLD Sequence Analysis

**Single Gene and Region Specific Testing (cont'd)**
**CADASIL:**

- NOTCH3 Sequence Analysis

**CHARGE Syndrome:**

- CHD7 Sequence Analysis
- CHD7 Deletion/Duplication Analysis

**Congenital Central Hypoventilation Syndrome:**

- PHOX2B Sequence Analysis including polyalanine repeat analysis

**Craniofrontonasal Syndrome:**

- EFN1 Sequence Analysis
- EFN1 Deletion/Duplication Analysis

**Cystic Fibrosis:**

- CFTR Sequence Analysis
- CFTR Deletion/Duplication Analysis

**Fragile X Syndrome:**

- Triplet Repeat Analysis

**Gilbert's Syndrome:**

- UGT1A1 Sequence Analysis of the promoter region

**Hereditary Leiomyomatosis and Renal Cell Carcinoma:**

- FH Sequence Analysis
- FH Deletion/Duplication Analysis

**Li Fraumeni:**

- TP53 Sequence Analysis
- TP53 Deletion/Duplication Analysis

**Marfan Syndrome:**

- FBN1 Sequence Analysis
- FBN1 Deletion/Duplication Analysis

**Marshall Syndrome:**

- COL11A1 Sequence Analysis
- COL11A1 Deletion/Duplication Analysis

**Mental Retardation and Microcephaly with Pontine and Cerebellar Hypoplasia:**

- CASK Sequence Analysis

**Multiple Endocrine Neoplasia, Type 2:**

- RET Sequence Analysis

**Neuroblastoma:**

- ALK Sequence Analysis
- PHOX2B Sequence Analysis (Not suitable for tumor samples)

**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

**SMARCB1 Related Disorders:**

- SMARCB1 Sequence Analysis
- SMARCB1 Deletion/Duplication Analysis

**SHOX Related Disorders:**

- SHOX Deletion/Duplication Analysis
- SHOX Sequence Analysis

**Thalassemia:**

- Alpha Thalassemia: HBA1 and HBA2 Deletion/Duplication Analysis
- Alpha Thalassemia: HBA1 and HBA2 Sequence Analysis
- Beta Thalassemia: HBB Sequence Analysis
- Beta Thalassemia: HBB Deletion/Duplication Analysis
- Hereditary Persistence of Fetal Hemoglobin: Beta Globin Gene Locus Deletion/Duplication Analysis
- Sickle Cell Anemia: HBB Sequence Analysis

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### Single Gene and Region Specific Testing (cont'd)

**Thrombophilia:**

- Factor II Sequence Analysis for c.\*97G>A  
 Factor V Sequence Analysis for c.1601G>A

**Von Hippel Lindau:**

- VHL Sequence Analysis  
 VHL Deletion/Duplication Analysis

### Pharmacogenomic Testing

**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

- Known Variant Testing

Please fill out the known genetic abnormality section on page 2

## PANEL TESTING: GENE CONTENT

 For panels with both sequencing and deletion/duplication options: \* Designates panels/genes with analysis by sequencing only; \*\* Designates genes with analysis by deletion/duplication only  
 For CPT codes and turn around times, please visit our website at <https://www.testmenu.com/chop>.

PANEL NAME	GENE CONTENT
Alagille Syndrome	JAG1, NOTCH2
Alport Syndrome Panel	COL4A3, COL4A4, COL4A5
Angelman/Rett-Like Panel	ARX, ATRX, CDKL5, CNTNAP2*, DYRK1A, EHMT1, FOLR1, FOXG1, MBD5, MECP2, MEF2C, NRXN1*, OPHN1, PCDH19, PNKP, SLC9A6, TCF4, UBE3A, ZEB2
Branchio-Oto-Renal Panel	EYA1, SIX1, SIX5
<b>Cancer (Germline) Panel Testing: Comprehensive Hereditary Cancer Testing:</b>	
Comprehensive Hereditary Cancer Panel	ABCB11, ALK, APC, ARID5B, ATM, AXIN2, BAP1, BARD1, BLM, BMPR1A, BRCA1, BRCA2, BRIP1, BUB1B, CBL, CDC73, CDH1, CDK4, CDKN1C, CDKN1B, 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, FH, FLCN, G6PC3, GATA2, GBA, GJB2, GPC3, HAPB2, HAX1, HFE, HMBS, HRAS, IKZF1, ITK, KIT, 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, RAD51, RAD51C, RAD51D, RB1, RECQL4, RET, RHBDF2, RMRP, RUNX1, SBDS, SDHA, SDHAF2, SDHB, SDHC, SDHD, SERPINA1, SH2D1A, SLC25A13, SMAD4, SMARCA4, SMARCB1, SMARCE1, SOS1, SRY, STAT3, STK11, SUFU, TERT, TGFBF1, TMEM127, FAS, TP53, TRIM37, TSC1, TSC2, UROD, VHL, WAS, WRN, WT1, XPA, XPC
Hereditary Brain Tumor Panel	ALK, APC, ATM, MEN1, MLH1, MSH2, MSH6, PMS2, NBN, NF1 NF2, PALB2, PHOX2B, PTCH1, SMARCB1, SUFU, TP53, VHL
Hereditary Breast, Ovarian, and Endometrial Cancer Panel	ATM, BARD1, BRCA1, BRCA2, BRIP1, CDH1, CHEK2, EPCAM, MLH1, MSH2, MSH6, PMS2, FANCA, ITK, MEN1, MUTYH, NBN, NF1, PALB2, PTEN, RAD50, RAD51C, RAD51D, SMARCA4, STK11, TP53, WRN
Hereditary High-Risk Breast Cancer Panel	BRCA1, BRCA2, CDH1, PALB2, PTEN, STK11, TP53
Hereditary Colorectal and Gastrointestinal Cancer Panel	APC, ATM, BMPR1A, BRCA1, BRCA2, CDH1, CDK4, CDKN2A, CHEK2, EPCAM, MLH1, MSH2, MSH6, PMS2, KIT, MUTYH, PALB2, POLD1, POLE, PTEN, SMAD4, STK11, TP53
Hereditary High-Risk Colorectal Cancer Panel	APC, BMPR1A, EPCAM, MLH1, MSH2, MSH6, PMS2, MUTYH, PTEN, SMAD4, STK11, TP53
Hereditary Endocrine Cancer Panel	CDC73, CDKN1B, MAX, MEN1, PRKAR1A, PTEN, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, TMEM127, TP53, and VHL
Hereditary Kidney Panel	BAP1, CDC73, CDKN1C, FH, FLCN, GPC3, MET, MLH1, MSH2, MSH6, PTEN, SDHA, SDHB, SDHC, SDHD, SMARCB1, TSC1, TSC2, VHL, WT1
Hereditary Melanoma Panel	BAP1, BRCA1, BRCA2, CDK4, CDKN2A, PTEN, RB1, TERT, TP53, WRN
Hereditary Pancreatic Cancer Panel	APC, ATM, BMPR1A, BRCA1, BRCA2, CDK4, CDKN2A, EPCAM, MLH1, MSH2, MSH6, PMS2, PALB2, PRSS1, SMAD4, STK11, TP53, VHL
Hereditary Paraganglioma/Pheochromocytoma Panel	FH, MAX, MEN1, NF1, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, TMEM127, VHL
Hereditary Prostate Cancer Panel	BRCA1, BRCA2, CHEK2, NBN, TP53
<b>Hereditary Cancer Panels: Bone Marrow Failure/Myelodysplastic Syndrome/Leukemia Testing:</b>	
Comprehensive Bone Marrow Failure (BMF)/Myelodysplastic Syndrome (MDS)/Leukemia Predisposition Panel	AK2, ABCB7, ACD, ALAS2, ANKRD26, APC, ATM, ATR, BLM, BRCA1, BRCA2, C15ORF41, CBL, CDAN1, CDKN2A, CEBPA, CHEK2, CSF3R, CTC1, CXCR4, DDX11, DDX41, DKC1, ELANE, EPCAM, ERCC4, ESCO2, ETV6, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, G6PC3, GATA1, GATA2, GF11, 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, SAMDL9, SBDS, SH2B3, SEC23B, SLC25A38, SLC37A4, SLX4, SOS1, SRP72, TAZ, TERC, TERT, TINF2, TP53, USB1, VPS13B, VPS45, WAS, WIPF1, WRAP53
Bone Marrow Failure Panel	ABCB7, ACD, AK2, ALAS2, ANKRD26, ATM, ATR, BLM, BRCA1, BRCA2, C15ORF41, CBL, CDAN1, CSF3R, CTC1, CXCR4, DDX11, DKC1, ELANE, ERCC4, ESCO2, ETV6, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, G6PC3, GATA1, GATA2, GF11, 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, SAMDL9, SBDS, SEC23B, SLC25A38, SLC37A4, SLX4, SRP72, TAZ, TERC, TERT, TINF2, USB1, VPS13B, VPS45, WAS, WIPF1, WRAP53
Fanconi Anemia/Rare Chromosomal Breakage Disorders Panel	ATM, BLM, BRCA1 (FANCS), BRCA2 (FANCD1), DDX11, ERCC4 (FANCC), ESCO2, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG (XRCC9), FANCI, FANCL (BRIP1), FANCL, FANCM, LIG4, NBN, NHEJ1, PALB2 (FANCN), RAD51 (FANCR), RAD51C (FANCO), SLX4 (FANCP)



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**PANEL TESTING: GENE CONTENT (cont'd)**

 For panels with both sequencing and deletion/duplication options: \* Designates panels/genes with analysis by sequencing only; \*\* Designates genes with analysis by deletion/duplication only  
For CPT codes and turn around times, please visit our website at <https://www.testmenu.com/chop>.

PANEL NAME	GENE CONTENT
Hereditary Myelodysplastic Syndrome/Leukemia Predisposition Panel	ACD, AK2, ANKRD26, APC, ATM, ATR, BLM, BRCA1, BRCA2, CBL, CDKN2A, CEBPA, CHEK2, CSF3R, CTC1, DDX11, DDX41, DKC1, EPCAM, ERCC4, ESCO2, ETV6, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, GATA1, GATA2, KRAS, LIG4, MLH1, MPL, MSH2, MSH6, NBN, NFI, NF2, NHEJ1, NHP2, NOP10, PALB2, PARN, PAX5, PMS2, PTPN11, RAD51, RAD51C, RAF1, RECQL, RMRP, RTEL1, RUNX1, SAMD9, SAMDL9, SBDS, SH2B3, SLX4, SOS1, SRP72, TERC, TERT, TINF2, TP53, WAS, WIPF1, WRAP53
Inherited Neutropenia Panel	AP3B1, CSF3R, CXCR4, ELANE, G6PC3, GATA1, GATA2, GF11, HAX1, LAMTOR2, LYST, RAB27A, RAC2, RMRP, SBDS, SLC37A4, TAZ, USB1, VPS13B, VPS45, WAS, WIPF1
Inherited Red Blood Cell Disorder Panel	ABCB7, ABCG5, ABCG8, AK1, ALAS2, ALDOA, ANK1, C15ORF41, CDAN1, 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	ACTN1, ABCG5, ABCG8, ANKRD26 including 5'UTR, AP3B1, CYCS, DIAPH1, ETV6, FLI1, FLNA, GATA1, GF11B, GP1BA, GP1BB, GP9, HOXA11, ITGA1, ITGA2B, 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
Reflex to Comprehensive Bone Marrow Failure (BMF)/Myelodysplastic Syndrome (MDS)/Leukemia Predisposition Panel	AK2, ABCB7, ACD, ALAS2, ANKRD26, APC, ATM, ATR, BLM, BRCA1, BRCA2, C15ORF41, CBL, CDAN1, CDKN2A, CEBPA, CHEK2, CSF3R, CTC1, CXCR4, DDX11, DDX41, DKC1, ELANE, EPCAM, ERCC4, ESCO2, ETV6, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, G6PC3, GATA1, GATA2, GF11, GLRX5, HAX1, KIF23, KLF1, KRAS, LAMTOR2, LIG4, LYST, MLH1, MPL, MSH2, MSH6, NBN, NFI, 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, SAMDL9, SBDS, SH2B3, SEC23B, SLC25A38, SLC37A4, SLX4, SOS1, SRP72, TAZ, TERC, TERT, TINF2, TP53, USB1, VPS13B, VPS45, WAS, WIPF1, WRAP53
Cholestasis Panel	ABCB11, ABCB4, ABCG2, AKR1D1, ATP8B1, BAAT, CFTR, CLDN1, HNF1A*, HNF1B*, HSD3B7, JAG1, LIPA, MYO5B, NOTCH2, NPC1, NPC2, NR1H4, SERPINA1, SLC25A13, TJP2, VIPAS39, VPS33B
Congenital Diarrhea Panel	APOB, CFTR, DGAT1, EPCAM, FLNA, GUCY2C, LCT, MTPP, MYO5B, NEUROG3, PCSK1, PNLIP, SAR1B, SI, SKIV2L, SLC26A3 (DRA), SLC5A1 (SGLT1), SLC9A3, SPINT2, STX3, TTC37
Connective Tissue Panel	ACTA2, B3GAT3, CBS, COL1A1, COL1A2, COL3A1, COL4A5, COL5A1, COL5A2, EFEMP2, ELN, FBLN5, FBN1, FBN2, FLNA, FOXE3, GATA5, LOX, MAT2A, MED12, MFAP5, MYH11, MYLK, NOTCH1, PLOD1, PLOD3, PRKG1*, SKI, SLC2A10, SMAD2, SMAD3, SMAD4, SMAD6, TGFB2, TGFB3, TGFB3R1, TGFB3R2
Cornelia de Lange Syndrome Panel	AFF4*, ANKRD11, ASXL1, ASXL3, HDAC8, NIPBL, PACS1*, RAD21, SMC1A, SMC3
Craniofacial Panel	ALPL, ALX1, ALX3, ALX4, CD96, CHD7, DHODH, EDN1, EFN1, EFTUD2, ERF, EVC, EVC2, EYA1, FGFR1*, FGFR2*, FGFR3*, GLI3, GNAI3*, IFT122, IFT43, MEGF8, MIR17HG**, MSX2, MYCN, PDE4D*, PLCB4, POLR1A, POLR1C, POLR1D, POR, PRKAR1, RAB23, RECQL4, RUNX2, SALL1, SF3B4, SIX1, SIX5, SKI, SNRNPB, SPECC1L, TCF12, TCOF1, TWIST1, WDR19, WDR35, ZIC1, ZSWIM6*
Craniosynostosis Panel	CD96, EFN1, ERF, FGFR1*, FGFR2*, FGFR3*, IFT122, IFT43, MEGF8, MSX2, POR, RAB23, RECQL4, RUNX2, SKI, SPECC1L, TCF12, TWIST1, WDR35, ZIC1
Epilepsy Panel Testing:	
Epilepsy Panel	ALDH7A1, ALG13, ARHGEF9, ARX, ASAH1, ATP1A2, ATP1A3, CACNA1A, CACNA1D, CASK, CDKL5, CERS1, CHD2, CHRNA2, CHRNA4, CHRNB2, CLN3, CLN5, CLN8, CNKSR2, CSTB, CTSD, DEPDC5, DNM1, DYNC1H1, EEF1A2, EFHC1, EPM2A, FOLR1, FOXG1, GABRA1, GABRB3, GABRG2, GNAO1, GOSR2, GRIN1, GRIN2A, GRIN2B, HCN1, HDAC4, HNRNPU, IQSEC2, KCNA1, KCNA2, KCNB1, KCNC1, KCNJ10, KCNQ2, KCNQ3, KCNT1, KCTD7, LGI1, MECP2, MEF2C, MFSDB, NHLRC1, PCDH19, PIGA, PIGO, PIGT, PLCB1, PNKP, PNPO, POLG, PPT1, PRICKLE1, PRRT2, PURA, QARS, RELN, RYR3, SCARB2, SCN1A, SCN1B, SCN2A, SCN8A, SIK1, SLC12A5, SLC13A5, SLC25A22, SLC2A1, SLC35A2, SLC6A1, SLC6A8, SPTAN1, ST3GAL3, STX1B, STXB1, SYN1, SYNGAP1, SZT2, TBC1D24, TPP1, TSC1, TSC2, WDR45, WWOX, UBE3A, ZEB2
Rapid Epilepsy Panel	ALDH7A1, CSTB, EPM2A, GAMT, GATM, GRIN2A, GRIN2B, GRIN2D*, KCNB1, KCNQ2, KCNT1*, NHLRC1, PNPO, POLG, SCN1A, SCN2A, SCN8A, SLC2A1, SLC6A8
Glycogen Storage Disease Panel	ACAT1, AGL, FBP1, G6PC, GAA, GBE1, GYS2, PCK1, PFKM, PHKA1, PHKA2, PHKB, PHKG2, PYGL, SLC16A1, SLC2A2, SLC37A4
Hearing Loss Panel (AUDIOME v.2)	Tier 1: GJB2 sequence analysis and targeted GJB6 variant (ΔGJB6-D13S1830) Tier 2: ABHD12, ACTG1*, ADGRV1, ALMS1, ATP6V1B1, ATP6V1B2, BCS1L, BSND, CABP2, CACNA1D*, CCDC50, CDC14A*, CDH23, CEACAM16, CEP78*, CIB2, CISD2, CLDN14, CLIC5, CLPP, CLRN1, COCH*, COL11A1, COL11A2, COL2A1, COL4A3, COL4A4, COL4A5, COL9A1, COL9A2, COL9A3, DIABLO*, DIAPH1, DMXL2*, EDN3, EDNRB, EPS8, ESPN, ESRP1*, ESRRB, EYA1, EYA4, FGF3, GIPC3, GJB2, GJB6, GSPM2, GRHL2, GRXCR1, GRXCR2, GSDME (DFNA5), HARS, HARS2, HGF, HOMER2*, HSD17B4, ILDR1, KCNE1, KCNQ1, KCNQ4, LARS2, LHFPL5, LOXHD1, LRTOMT, MARVELD2, MITF, 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, PJKV (DFNB59), POU3F4, POU4F3, PRPS1, PTPRQ, RDX, RIPOR2* (FAM65B), S1PR2, SERPINB6, SIX1, SLC17A8, SLC26A4, SLC4A11, SLC52A2, SLC52A3, SLITRK6, SMPX, SNAI2, SOX10, STRC, SUCLA2, SYNE4, TBC1D24, TECTA, TIMM8A, TMC1, TMIE, TMPRSS3, TPRN, TRIOBP, TSPEAR, USH1C, USH1G, USH2A, WFS1, WHRN
Humoral Dysfunction Panel	ICDA, BTK, CD27, CD40LG, CECCR1, CR2, CTLA4, CXCR4, GATA2, ICOS, IKBKG*, IKZF1, IL21, IL21R, LRBA, NFKB1, NFKB2, PIK3CD*, PIK3R1, PRKCD, SH2D1A, STAT1, STAT3, UNG, XIAP
Kabuki Syndrome Panel	KDM6A, KMT2D
Ketotic Hypoglycemia Panel	ACAT1, AGL, G6PC, GYS2, PYGL, PHKA2, PHKB, PHKG2, SLC16A1, SLC37A4
Neonatal Respiratory Distress Panel	ABCA3, COPA, CSF2RA, CSF2RB, DKC1, FLNA, FOXF1, GATA2, JAG1, MARS, NKX2-1, NOTCH2, SFTPB, SFTPC*, SLC7A7, TERC, TERT
Noonan Spectrum Disorders Panel*	A2ML1, BRAF, CBL, HRAS, KRAS, LZTR1, MAP2K1, MAP2K2, MRAS, NRAS, PPP1CB, PTPN11, RAF1, RASA2, RIT1, RRAS, SHOC2, SOS1, SOS2, SPRED1
Osteogenesis Imperfecta Panel	COL1A1, COL1A2, IFITM5*

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**PANEL TESTING: GENE CONTENT (cont'd)**

 For panels with both sequencing and deletion/duplication options: \* Designates panels/genes with analysis by sequencing only; \*\* Designates genes with analysis by deletion/duplication only  
For CPT codes and turn around times, please visit our website at <https://www.testmenu.com/chop>.

PANEL NAME	GENE CONTENT
Pancreatitis Panel	CASR, CFTR, CTSC, PRSS1*, SPINK1
Pneumothorax Panel	COL3A1, FBN1, FLCN, TGFB1, TGFB2
Primary Ciliary Dyskinesia Panel	ARMC4, C21ORF59, CCDC103, CCDC114, CCDC151, CCDC39, CCDC40, CCDC65, CCNO, CFTR, DNAAF1, DNAAF2, DNAAF3, DNAAF5, DNAH1, DNAH11, DNAH5, DNAH6, DNAH8, DNAI1, DNAI2, DNAL1, DRC1, DYX1C1, GAS8, HYDIN, INVS, LRRC6, MCIDAS, NME8, OFD1, RPGR, RSPH1, RSPH3, RSPH4A, RSPH9, SPAG1, ZMYND10
Pulmonary Arterial Hypertension Panel	ACVRL1, BMPR1B, BMPR2, CAV1, EIF2AK4, ENG, GDF2, KCNA5, KCNK3, RASA1, SMAD4, SMAD9, FOXF1
Pulmonary-Vascular Panel, Comprehensive	ABCA3, ACVRL1, ARMC4, BMPR1B, BMPR2, C21ORF59, CAV1, CCDC103, CCDC114, CCDC151, CCDC39, CCDC40, CCDC65, CCNO, CFTR, COPA, CSF2RA, CSF2RB, DKC1, DNAAF1, DNAAF2, DNAAF3, DNAAF5, DNAH1, DNAH11, DNAH5, DNAH6, DNAH8, DNAI1, DNAI2, DNAL1, DRC1, DYX1C1, EIF2AK4, ENG, FLNA, FOXF1, GAS8, GATA2, GDF2, HYDIN, INVS, JAG1, KCNA5, KCNK3, LRRC6, MARS, MCIDAS, NKX2.1, NME8, NOTCH2, OFD1, RASA1, RPGR, RSPH1, RSPH3, RSPH4A, RSPH9, SFTPB, SFTPC*, SLC7A7, SMAD4, SMAD9, SPAG1, TERC, TERT, ZMYND10
Rapid Epilepsy Panel	ALDH7A1, CSTB, EPM2A, GAMT, GATM, GRIN2A, GRIN2B, GRIN2D*, KCNB1, KCNQ2, KCNT1*, NHLRC1, PNPO, POLG, SCN1A, SCN2A, SCN8A, SLC2A1, SLC6A8
Rubinstein-Taybi Syndrome Panel	CREBBP, EP300
Severe Combined Immune Deficiency (SCID) Panel	ADA, ATM, CHD7, DCLRE1C, DOCK8, FOXN1, IKBKG*, IL2RG, IL7R, JAK3, LIG4, NHEJ1, PNP, PRKDC, RAG1, RAG2, TBX1, WAS
Stickler Syndrome Panel	COL11A1, COL11A2, COL2A1, COL9A1, COL9A2
Waardenburg Syndrome Panel	EDN3, EDNRB, MITF, PAX3, SNAI2, SOX10

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**GENOMIC DIAGNOSTICS TEST REQUISITION**

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

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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:**



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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.

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

For 22q11.2 Deletion/Duplication Analysis, if normal reflex to array, we require 3-5mL of blood in an EDTA (purple top) tube **AND** 3-5mL in a Sodium Heparin (green top) tube.

**Bone Marrow** – For testing on a bone marrow aspirate, 3-5mL is needed in an EDTA (purple top) tube.

**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 number to use for return shipment along with the return address.

**Shipping Instructions**

Samples should be shipped by overnight carrier to arrive Monday-Saturday.

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: (215) 590-4452

**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**

\*For Cancer tests please use the Cancer Test Requisition. Page 10 of 10

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

**Institutional Billing Option**

ICD-10 Diagnosis Codes for Billing: \_\_\_\_\_

Bill to Institution/Department: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Billing Contact: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

**Self 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: \_\_\_\_\_ CCV (security # on back): \_\_\_\_\_  
Month/Year

Billing Address: \_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

\_\_\_\_\_  
Cardholder Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date (Month/Day/Year)

\_\_\_\_\_  
Time

\*Cardholders signature indicates authorization to bill Credit Card

*For Lab use only:*