



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

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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 Diagnostic Laboratory, 3615 Civic Center Blvd., Abramson Research Center, 714J, Philadelphia, PA 19104-4302 - Phone: (267) 426-1447

PATIENT INFORMATION		SAMPLE INFORMATION	
Patient Name (Last, First, Middle): _____ _____ Ordering Facility MRN: _____ _____ <input type="checkbox"/> Fetus of above patient (Check if prenatal sample) Sex: <input type="checkbox"/> Male <input type="checkbox"/> Female <input type="checkbox"/> Unknown <input type="checkbox"/> Other: _____ Date of Birth (Month/Day/Year): _____ Street Address: _____ City/State: _____ Zip/Country: _____ Phone Number: (____) _____ Race/Ethnicity: <input type="checkbox"/> Amish <input type="checkbox"/> Asian <input type="checkbox"/> Black/African-American <input type="checkbox"/> Caucasian <input type="checkbox"/> East Indian <input type="checkbox"/> French Canadian <input type="checkbox"/> Hispanic <input type="checkbox"/> Jewish-Ashkenazi <input type="checkbox"/> Jewish-Sephardic <input type="checkbox"/> Mediterranean <input type="checkbox"/> Native American <input type="checkbox"/> Other: _____		What is the surgical pathology identification number?: _____ Collection Date (Month/Day/Year): _____ Did the patient previously have a bone marrow transplant? <input type="checkbox"/> Yes <input type="checkbox"/> No Does the sample contain tumor/blasts? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, please include the pathology report and indicate the percentage of tumor or blast nuclei in the sample: <input type="checkbox"/> <10% (unacceptable) <input type="checkbox"/> 10-29% <input type="checkbox"/> 30-50% <input type="checkbox"/> >50% Is a pathology report available (Attach a copy)? <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Type (please see sample requirements on page 4): <input type="checkbox"/> Bone Marrow Aspirate <input type="checkbox"/> Purple Top Tube (EDTA) <input type="checkbox"/> Green Top Tube (Sodium Heparin) <input type="checkbox"/> Bone Marrow Biopsy <input type="checkbox"/> Blood <input type="checkbox"/> Purple Top Tube (EDTA) <input type="checkbox"/> Green Top Tube (Sodium Heparin) <input type="checkbox"/> Cerebral Spinal Fluid <input type="checkbox"/> *Cultured CVS Cells <input type="checkbox"/> *Cultured Amniotic Fluid <input type="checkbox"/> *Cheek Brush <input type="checkbox"/> *Saliva For the sample types listed below, please specify tissue of origin (required): <input type="checkbox"/> Frozen Tissue <input type="checkbox"/> OCT <input type="checkbox"/> Snap or Flash Frozen <input type="checkbox"/> ***Formalin Fixed Paraffin Embedded Tumor <input type="checkbox"/> Block <input type="checkbox"/> Scrolls Request return of tumor block <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Fresh Tissue in RPMI media <input type="checkbox"/> Cultured Fibroblasts <input type="checkbox"/> **cDNA: <input type="checkbox"/> **DNA: <input type="checkbox"/> **RNA <input type="checkbox"/> Other (Specify): _____ * Please contact the lab if sending this sample type ** Were the nucleic acids (DNA or RNA) extracted from a CAP or CLIA certified laboratory (as required)? <input type="checkbox"/> Yes <input type="checkbox"/> No *** NOTE: Please reach out to the GDL to confirm the testing schedule if sending cut formalin-fixed, paraffin embedded (FFPE) scrolls or slides.	
ORDERING PROVIDER	ORDERING LABORATORY	OTHER ORDERING PROVIDER / GENETIC COUNSELOR	
Name (Last, First, Degree) (____) _____ Phone (____) _____ Fax _____ Institution _____ Street Address _____ City State _____ Zip Country _____ Email _____	Name (Last, First, Degree) (____) _____ Phone (____) _____ Fax _____ Institution _____ Street Address _____ City State _____ Zip Country _____ Email _____	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 Time: _____ Sample: _____

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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)? 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

*Please contact the laboratory to request expedited testing.

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TEST MENU

Please add instructions for reflex/sequential testing on previous page.

Please see pages 4 & 5 for a list of the genes included within each panel

DNA/RNA Extraction

- DNA Extraction
 RNA Extraction

Somatic Cancer Testing

Panel Testing:

- Comprehensive Solid Tumor Panel (Solid + Fusion)
 Solid Tumor Panel
 Comprehensive Hematologic Cancer Panel (Heme + Fusion)
 Hematologic Cancer Panel
 Cancer Gene-Fusion Panel

Panel Testing: Tumor/Normal Pair

- Solid tumor Panel Tumor/Normal Pair*
 Comprehensive Solid Tumor Panel Tumor/Normal Pair*
 Hematologic Cancer Panel Tumor/Normal Pair*
 Comprehensive Hematologic Cancer Panel Tumor/Normal Pair*

*These tests require both a tumor and non-tumor sample, clearly labeled (with 2 patient identifiers for each sample)

Tumor Sample:

ID _____ Specimen Type _____ Collection Date _____

Non-tumor Sample:

ID _____ Specimen Type _____ Collection Date _____

Cancer Transcriptome Analysis (RNA sequencing):

- RNA Sequencing*

*This test is not intended to be a first line diagnostic test. It should be considered following normal or inconclusive fusion analysis.

Chromosomal Microarray Analysis (not suitable for Paraffin Embedded Tumor):

- Cancer SNP Array

Chromosome Analysis:

- Karyotype

Fluorescence In Situ Hybridization (FISH): Panel Testing

- AML FISH Panel (CSF1R with D5S23/D5S721, CEP7, RUNX1T1/RUNX1, KMT2A (MLL), PML/RARA, and CBFβ)
 B-ALL FISH Panel (4cen/10cen, ABL1/BCR, KMT2A (MLL), ETV6/RUNX1, MYC/IGH, CRLF2)
 High Risk B-ALL FISH Panel (4cen/10cen, ABL1/BCR, KMT2A (MLL), ETV6/RUNX1, MYC/IGH1, CRLF2, ABL1, ABL2, PDGFRB)
 Fanconi Anemia FISH Panel (1p36, BCL6, EGR1, 7q31, RUNX1, telomere of chromosome 20q, KMT2A (MLL))
 T-ALL Plus FISH Panel (4cen/10cen, ABL1/BCR, KMT2A (MLL), ETV6/RUNX1, MYC/IGH1, CRLF2, RANBP17, TLX3)

Fluorescence In Situ Hybridization (FISH): Targeted Probe Analysis

- ABL1/BCR DF (9q34/22q11.2)
 CBFβ (Inversion 16q22.1)
 CDKN2A (9p21)
 CSF1R (5q33q34)
 Deletion 7
 DXZ1/DYZ3
 ETV6 (12p13)
 ETV6/RUNX1 (12p13/21q22)
 EWSR1 (22q12)
 EVI1 (Inversion 3)
 FOXO1 (13q14)
 IGH (14q32) BAP
 IGH/MYC (8q24/14q32)
 KMT2A(MLL) (11q23)
 MEGF6, TP73/ANGPTL, ABL2 (1p36/1q25)
 MYC (8q24)
 MYCN (2p24)
 NUP98 (11p15)

Somatic Cancer Testing (cont'd)

- PAX3 (2q35)
 PAX7 (1p36)
 PBX1/TCF3 (1q23/19p13.3)
 PDGFRA (4q12)
 PDGFRB (5q33.2)
 PML/RARA (15q22/17q21.1)
 PTCH1 (9q22.3)
 PTEN (10cen/10q23)
 RUNX1 (21q22)
 RUNX1T1/RUNX1 DF (8q21.3/21q22)
 SS18 (18q11.2)
 TCR (alpha/delta) (14q11.2)
 4cen/10cen
 10/19q Codeletion (1p36/1q25; 19p13/19q13)
 Other (specify) _____

Cancer Related BRAF Testing:

- BRAF Sequence Analysis of Exon 15

Neuroblastoma (Somatic Analysis - For germline testing, see Germline Cancer Testing below):

- ALK Sequence Analysis
 ALK/PHOX2B Panel (Sequencing and Deletion/Duplication Analysis of both ALK and PHOX2B)

SMARCB1 Testing:

- SMARCB1 Deletion/Duplication Analysis
 SMARCB1 Sequence Analysis (typically ordered if deletion/duplication analysis is not fully diagnostic)

VHL Testing:

- VHL Sequence Analysis
 VHL Deletion/Duplication Analysis

Germline Cancer Testing

Leukemic blood/bone marrow, buccal swabs, and tumors are not appropriate for germline testing.

Panel Testing:

Comprehensive Hereditary Cancer Testing:

- Comprehensive Hereditary Cancer Panel
 Hereditary Breast/Gyn Cancer Panel
 Hereditary High-Risk Breast Cancer Panel
 Hereditary High-Risk Colorectal Panel
 Hereditary Leukemia/Lymphoma Panel
 Hereditary Paraganglioma/Pheochromocytoma Panel
 ALK/PHOX2B Germline Analysis (Hereditary Neuroblastoma)

Bone Marrow Failure/Myelodysplastic Syndrome/Leukemia Testing:

- Comprehensive BMF/MDS/Leukemia Predisposition Panel
 Bone Marrow Failure Panel
 Fanconi Anemia NGS Panel
 Inherited Neutropenia Panel
 Inherited Red Blood Cell Disorder Panel
 Inherited Thrombocytopenia Panel
 Telomere Disorder Panel

Birt-Hogg-Dubé Syndrome:

- FLCN Sequence Analysis
 FLCN Deletion/Duplication Analysis

Brooke Spiegler Syndrome/Familial Cylindromatosis:

- CYLD Sequence Analysis

Hereditary Leiomyomatosis and Renal Cell Carcinoma:

- FH Sequence Analysis
 FH Deletion/Duplication Analysis

Li Fraumeni:

- TP53 Sequence Analysis
 TP53 Deletion/Duplication Analysis

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Germline Cancer Testing (cont'd)

Multiple Endocrine Neoplasia, Type 2:

- RET Sequence Analysis

Neuroblastoma (Germline Analysis-For somatic testing, see Somatic Cancer Testing section above):

- ALK/PHOX2B Panel (Sequencing of ALK and PHOX2B and Deletion/Duplication Analysis of PHOX2B)
- ALK Sequence Analysis
- PHOX2B Sequence Analysis

NUDT15 Testing:

- NUDT15 Sequence Analysis

PTEN Hamartoma Tumor Syndrome:

- PTEN Sequence Analysis
- PTEN Deletion/Duplication Analysis

SMARCB1 Testing:

- SMARCB1 Sequence Analysis
- SMARCB1 Deletion/Duplication Analysis

TPMT Testing:

- TPMT Sequence Analysis

Von Hippel Lindau:

- VHL Sequence Analysis
- VHL Deletion/Duplication Analysis

Known Variant Testing

Please fill out the known genetic abnormality section on page 2

Sequencing Variant*

- Sequence Variant

Copy Number Variant*

- Copy Number Variant

*Please check if any of the following apply:

- Lab Requested
- Research
- Positive Control

Pharmacogenomic Testing

Mercaptopurine Intolerance:

- NUDT15 Sequence Analysis
- TPMT Sequence Analysis

NUDT15 and TPMT genotyping are performed as part of the analysis for the Solid Tumor Panel and the Hematologic Cancer Panel

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>.

Somatic Tumor Panel Testing	
Comprehensive Hematologic Cancer Panel (CHOP Somatic Heme Panel + CHOP Cancer Fusion Panel)	Includes sequence and copy number analysis of the genes on the CHOP Hematologic Cancer Panel and fusion analysis of the genes on the CHOP Fusion Panel.
CHOP Hematologic Cancer Panel	ABL1, ASXL1, ASXL2, ATRX, BCL11B, BCL6, BCOR, BCORL1, BRAF, BRINP3, CALR, CBL, CCND3, CD79A, CD79B, CDC25C, CDKN2A, CDKN2B, CEBPA, CREBBP, CRLF2, CSF1R, CSF3R, CTCF, DDX41, DNMT2, DNMT1, DNMT3A, DOT1L, EBF1, EED, ELANE, EP300, EPOR, ERG, ESR1, ETNK1, ETS1, ETV6, EZH2, FBXW7, FLT3, GATA1, GATA2, GATA3, HNRNP, HRAS, IDH1, IDH2, IKZF1, IKZF3, IL7R, JAK1, JAK2, JAK3, KDM6A, KIT, KMT2A, KMT2C, KMT2D, KRAS, LEF1, LYL1, MAP2K1, MPL, MSH2, MSH6, MYB, MYD88, NF1, NOTCH1, NPM1, NRAS, NSD1, NSD2 (WHSC1), NT5C2, PAX5, PDGFRA, PHF6, PIK3R1, PRPF40B, PRPF8, PTEN, PTPN11, RAD21, RB1, RELN, RPL10, RTEL1, RUNX1, SETBP1, SETD2, SF1, SF3A1, SF3B1, SH2B3, SMC1A, SMC3, SRSF2, STAG2, STAT3, SUZ12, TAL1, TCF3, TERT, TET2, TIN2, TLX1, TLX3, TP53, U2AF1, U2AF2, UBA2, USH2A, USP7, WT1, ZRSR2; and two cancer-associated pharmacogenomics genes: NUDT15 and TPMT
Comprehensive Solid Tumor Panel (CHOP Solid Tumors Panel + CHOP Cancer Fusion Panel)	Includes sequence and copy number analysis of the genes on the CHOP Solid Tumor Panel and fusion analysis of the genes on the CHOP Fusion Panel.
CHOP Solid Tumors Panel	ABL1, ACVR1, AKT1, AKT2, AKT3, ALK, APC, AR, ARAF, ARID1A, ARID1B, ARID2, ASXL1, ATM, ATR, ATRX, AURKA, AURKB, AXIN1, AXL, B2M, BAP1, BARD1, BCL2, BCL6, BCOR, BCORL1, BLM, BRAF, BRCA1, BRCA2, BRD4, BRIP1, CARD11, CBF, CBL, CCND1, CCND2, CCND3, CCNE1, CD274, CD79B, CDC73, CDH1*, CDK12, CDK4, CDK6, CDK8, CDKN1B, CDKN2A, CDKN2B, CDKN2C, CHEK1, CHEK2, CIC, CREBBP, CRKL, CRLF2, CSF1R, CTCF, CTNNA1, DAXX, DDR2, DICER1, DNMT3A, DOT1L, EED, EGFR, EP300, EPHA3, EPHA5, EPHB1, ERBB2, ERBB3, ERBB4, ERG, ESR1, ETV6, EZH2, FANCA, FANCC, FBXW7, FGF19, FGF3, FGF4, FGF1, FGFR2, FGFR3, FGFR4, FLCN, FLT1, FLT3, FLT4, FOXL2, FOXO1, FUBP1, GATA1, GATA2, GATA3, GNA11, GNAQ, GNAS, GRIN2A, GSK3B, H3-3A, HGF, H1-2, H3C2, HNF1A, HRAS, IDH1, IDH2, IGF1R, IKBKE, IKZF1, IL7R, INPP4B, IRF4, IRS2, JAK1, JAK2, JAK3, JMJD1C, JUN, KDM5A, KDM5C, KDM6A, KDR, KEAP1, KIT, KMT2A, KMT2C, KRAS, MAP2K1, MAP2K2, MAP2K4, MAP3K1, MAPK1, MCL1, MDM2, MDM4, MED12, MEF2B, MEN1, MET, MIF, MLH1, MPL, MRE11 (MRE11A), MSH2, MSH6, MTOR, MUTYH, MYB, MYC, MYCN, MYD88, MYO10, NF1, NF2, NFE2L2, NKX2-1, NOTCH1, NOTCH2, NPM1, NRAS, NSD2 (WHSC1), NTRK1, NTRK2, NTRK3, PALB2, PAX5, PBRM1, PDCD1, PDGFRA, PDGFRB, PHOX2B, PIK3CA, PIK3CG, PIK3R1, PIK3R2, PIM1, PPM1D, PPP2R1A, PRDM1, PRKAR1A, PTCH1, PTEN, PTPN11, RAD50, RAD51, RAF1, RARA, RB1, RET, RHOA, RICTOR, RNF43, ROS1, RPTOR, RUNX1, SDHA, SDHB, SDHC, SDHD, SETD2, SF3B1, SMAD2, SMAD4, SMARCA4, SMARCB1, SMO, SOCS1, SOX2, SPEN, SPOC, SRC, STAG2, STK11, SUFU, SUZ12, TENT5C (FAM46C), TERT, TET2, TGFB2, TNFAIP3, TNFRSF14, TOP1, TP53, TP63, TSC1, TSC2, TSHR, U2AF1, VHL, WT1, AMER1, XPO1; and two cancer-associated pharmacogenomics genes: NUDT15 and TPMT. *Please note, CDH1 is not analyzed as part of tumor/normal paired testing.
CHOP Cancer Fusion Panel	Fusion analysis is performed for the following genes: ABL1, ABL2, AKT3, ALK, ARHGAP26, AXL, BCL2, BCL6, BCR, BRAF, BRD3, BRD4, CAMTA1, CBFA2T3, CBF, CCNB3, CCND1, CIC, CREBBP, CRLF2, CSF1R, DNAJB1, DUSP22, EGFR, EPC1, EPOR, ERG, ESR1, ESRRA, ETV1, ETV4, ETV5, ETV6, EWSR1, FGFR1, FGFR2, FGFR3, FGR, FOXO1, FUS, GLI1, GLIS2, HMGA2, IL2RB, IL3, IL3RA, INSR, JAK2, JAZF1, KAT6A, KMT2A, MALT1, MAML2, MAST1, MAST2, MEAF6, MECOM, MET, MRTFA, MRTFB, MSMB, MUSK, MYB, MYC, NCOA2, NOTCH1, NOTCH2, NRG1, NTRK1, NTRK2, NTRK3, NUMB, NUP214, NUP98, NUTM1, PAX5, PAX8, PDGFB, PDGFRA, PDGFRB, PICALM, PIK3CA, PKN1, PLAG1, PPARG, PRKACA, PRKCA, PRKCB, PTK2B, RAF1, RARA, RBM15, REL, RET, RSO1, RSO2, RSO3, RUNX1, RUNX1T1, SS18, STAT6, TAF15, TAL1, TCF12, TCF3, TERT, TFE3, TFEB, TFG, THADA, TLX3, TMPRSS2, TSLP, TYK2, USP6, VGLL2, YWHA

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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>.

Cancer (Germline) Panel Testing: Comprehensive Hereditary Cancer Testing	
Comprehensive Hereditary Cancer Panel	<i>ABC11, 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</i>
Hereditary Breast/Gyn Cancer Panel	<i>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</i>
Hereditary High-Risk Breast Cancer Panel	<i>BRCA1, BRCA2, CDH1, PALB2, PTEN, STK11, TP53</i>
Hereditary High-Risk Colon Cancer Panel	<i>APC, BMPR1A, EPCAM**, MLH1, MSH2, MSH6, MUTYH, PMS2, PTEN, SMAD4, STK11, TP53</i>
Hereditary Leukemia/Lymphoma Panel	<i>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</i>
Hereditary Paraganglioma/Pheochromocytoma Panel	<i>FH, MAX, MEN1, NF1, RET*, SDHA, SDHAF2, SDHB, SDHC, SDHD, TMEM127, VHL</i>
Hereditary Cancer Panels: Bone Marrow Failure/Myelodysplastic Syndrome/Leukemia Testing	
Comprehensive Bone Marrow Failure (BMF)/ Myelodysplastic Syndrome (MDS)/Leukemia Predisposition Panel	<i>ABC17, 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, 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*, SAMD9L*, SBDS, SEC23B, SH2B3, SLC25A38, SLC37A4, SLX4, SOS1*, SRP72, TAFAZZIN, TERC, TERT, TINF2, TP53, USB1, VPS13B, VPS45, WAS, WIPF1, WRAP53</i>
Bone Marrow Failure Panel	<i>ABC17, 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, 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*, SAMD9L*, SBDS, SEC23B, SLC25A38, SLC37A4, SLX4, SRP72, TAFAZZIN, TERC, TERT, TINF2, USB1, VPS13B, VPS45, WAS, WIPF1, WRAP53</i>
Fanconi Anemia NGS Panel	<i>ATM, BLM, BRCA1, BRCA2, BRIP1, DDX11, ERCC4, ESCO2, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, LIG4, NBN, NHEJ1, PALB2, RAD51, RAD51C, SLX4</i>
Inherited Neutropenia Panel	<i>AP3B1, CSF3R, CXCR4*, ELANE*, G6PC3, GATA1, GATA2, GF11*, HAX1, LAMTOR2, LYST, RAB27A, RAC2*, RMRP, SBDS, SLC37A4, TAFAZZIN, USB1, VPS13B, VPS45, WAS, WIPF1</i>
Inherited Red Blood Cell Disorder Panel	<i>ABC17, 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</i>
Inherited Thrombocytopenia Panel	<i>ABCG5, ABCG8, ACTN1*, ANKRD26* (including 5'UTR), AP3B1, CYCS, DIAPH1*, ETV6, FLI1, FLNA, GATA1, GF11B, GP1BA, GP1BB, GP9, HOXA11, ITGA1, ITGA2B, ITGB3, MPL, MYH9*, NBEAL2, PRKACG, RBM8A, RUNX1, SRC*, SRP72, TPM4, TRPM7, TUBB1, WAS</i>
Telomere Disorder Panel	<i>ACD, CTC1, DKC1, NHP2, NOP10, PARN, RTEL1, TERC, TERT, TINF2, WRAP53</i>

LAST NAME

FIRST NAME

MR#

DOB

PLACE PATIENT LABEL HERE OR COMPLETE ABOVE

DO NOT HANDWRITE PATIENT INFORMATION HERE

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Sample Requirements

Blood – The panel testing, single gene tests, and cancer SNP array analysis require 3-5mL in an EDTA (purple top) tube. FISH and karyotype analysis require 3-5mL in a sodium heparin (green top) tube.

Bone Marrow Aspirate – For testing on a bone marrow aspirate, 3-5mL is the preferred minimum. Please contact the lab for exceptions. Sample should be sent in an EDTA (purple top) tube if ordering panel testing, array, and/or targeted gene testing; sample should be sent in an NaHep (green top) tube if ordering chromosome analysis or FISH testing. Please include a pathology report that indicates percentage blasts in the aspirate specimen.

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, 0.5cm³ of tissue is needed. Please indicate percentage tumor nuclei in sample on Page 1 in the Sample Information section. Also include a pathology report.

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 Diagnostic 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).

Pathology Reports – Please include pathology reports including tumor percentage if sending tumor samples.

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.

_____ LAST NAME	_____ FIRST NAME
_____ MR#	_____ DOB

PLACE PATIENT LABEL HERE OR COMPLETE ABOVE

DO NOT HANDWRITE PATIENT INFORMATION HERE

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Please note: we do not bill patient insurance directly.

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.**

Institutional Billing Option

ICD-10 Diagnosis Codes for Billing: _____

Bill to Institution/Department: _____

Address: _____

Billing Contact: _____

Phone: _____ Fax: _____

Email: _____

Please provide FedEx number to use for return shipment if requested: _____

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