Children's Hos of Philadelphia	pital ²⁰¹ LAB-1514 Rev. 1/25	LAST NAME	FIRST NAME
of Philadelphia	LAB-1514 Rev. 1/25	MP#	
		IVI F1.77	DOR
		PLACE PATIENT LA	ABEL HERE <u>OR</u> COMPLETE ABOVE
Division of Genomic Diagn	ostics		
GENOMIC DIAGNOSTICS TEST F or Cancer tests please use the Cancer Test Begu		DO NOT HAND	WRITE PATIENT INFORMATION HERE
IIP TO: Children's Hospital of Philadelphia, Genomic Diagnosti	c Laboratory, 3615 Civic Cente	er Blvd., Abramson Research Cer	nter, 714J, Philadelphia, PA 19104-4302 - Phone: (267) 426-14-
PATIENT INFORMATIO	DN	S	AMPLE INFORMATION
Patient Name (Last, First, Middle):		Collection Date (Month	/Day/Year):
		Did the patient previous	sly have a bone marrow transplant? Yes No
Ordering Facility MRN:			Source of Blood:
			(EDTA)
Fetus of above patient (Check if prenatal samp	le)	Other Tube (Spec	cify): Other (Specify):
Sex: Male Female Unknown Uther:		Cerebral Spinal Fluid	d
Date of Dirtri (Worlth/Day/Year):			S Cultured Amniotic Fluid
City/State:		Saliva	
		(required):	isted below, please specify issue of origin
Phone Number: ()		*Frozen Tissue] OCT □ Snap or Flash Frozen
Race/Ethnicity:		· _ *Fresh Lissue _	Cultured Fibroblasts
Amish Asian E	Black/African-American	*Please contact the lab if	sending this sample type
🗆 Caucasian 🛛 🗆 East Indian 🔹 🗆 F	rench Canadian	** Were the nucleic acids	(DNA or RNA) extracted from a CAP or CLIA certified
🗆 Hispanic 🛛 🗆 Jewish-Ashkenazi 🔅 🗆 J	ewish-Sephardic	laboratory (as required	I)? Yes No Yer for Maternal Cell Contamination (Page 4) are
Mediterranean Native American		required for this specin	nen type:
Other:		- 3-5mL patient cord bi - 3-5mL maternal blood	l in a purple top (EDTA) tube
ORDERING PROVIDER	ORDERING I	LABORATORY	OTHER ORDERING PROVIDER /
			GENETIC COUNSELOR
	Neme (Lest First Des		
Name (Last, First, Degree)	Name (Last, First, Deg	jree)	Name (Last, First, Degree)
() Phone	() Phone		() Phone
()	()		
Fax	() Fax		Fax
Institution	Institution		Email
	monution		
Street Address	Street Address		
City State	City St	tate	
Zip Country	Zip C	ountry	
Email	Email		
For Lab Use Only Type of billing: Institutional CHOP Se Comments:	f-pay □ Institution call	ed	
Received by: Received Date:	Received Tir	ne: Sample	
Phone: (267) 426-1447	; Fax: (215) 590-351	4; Email: dgdgeneti	ccounselor@chop.edu;

Children's Hospital		LAST NAME	FIRST NAME
	LAB-1514 Rev. 1/25	MR#	DOB
		PLACE PATIENT LABEL HERE	OR COMPLETE ABOVE
Division of Genomic Diagnostics GENOMIC DIAGNOSTICS TEST REQUI	SITION		
*For Cancer tests please use the Cancer Test Requisition.	Page 2 of 10	DO NOT HANDWRITE PATIE	NT INFORMATION HERE
11	IDICATIO	N FOR TESTING	
Reason for Testing (please include pertinent h	history and	l findings, including pathology rep	oort):
Family History (Attach Pedigree if available): _			
Previous Relevant Genetic Testing:			
Previous Relevant Genetic Testing Performed (Attach a c	opy): 🗌 Yes 📋 No	
If yes, sample type: 🗌 Cultured cells from Cho	rionic Villu:	s 🗌 Cultured Amniocytes 🗌 E	Blood 🗌 Bone Marrow
Tissue Other:			
Results:			
Known Genetic Abnormality/Familial Testing	j:		
Is the current patient who is being tested simila	arly affecte	d to proband (person originally te	ested)? 🗆 Yes 📄 No
If yes, please describe:			
*Attach proband (originally tested family me	ember) rep	oort if available.	
Gene/Transcript/Region:	Alterati	ion (c., p., and/or g.):	
Proband (originally tested family member) Nan	ne (Last, Fi	irst):	
Proband (originally tested family member) Date	ə of Birth (I	Month/Day/Year):	
Current patient's relationship to the proband (c	originally te	sted family member):	
Please Note: If family member samples are su significance for a proband, the family member the case that the provider for the family member for release of the results.	Ibmitted fo (s) results v er is not the	r testing to clarify the interpretatic will be reported as an addendum e same as for the proband, a CH0	n of a variant of uncertain on the proband's report. In DP HIPAA release is required
CHOP HIPAA release included? 🗌 Yes 🗌 No	C		

^{*}Please contact the laboratory to request expedited testing.

Children's Hospital		LAST NAME	FIRST NAME
of Philadelphia	LAB-1514		DOB
	Rev. 1/25		
		PLACE PATIENT LABEL HER	E <u>OR</u> COMPLETE ABOVE
Division of Genomic Diagnostics			
*For Cancer tests please use the Cancer Test Requisition		DO NOT HANDWRITE PATI	ENT INFORMATION HERE
*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	.,	Panel Test	ting (cont'd)
Chromosome Analysis:		For a current list of genes on e	ach panel please see pages 5, 6, 7
☐ Karyotype		□ Noonan Spectrum Disorders Pare	
Mosaicism Screen		Osteogenesis Imperfecta Panel Preumothorax Panel	
Parental Study Elugrescence In Situ Hybridization (EISH):		Primary Ciliary Dyskinesia Panel	
□ Indicate specific syndrome or region of interest		Pulmonary Arterial Hypertension F	Panel
		– U Pulmonary-Vascular Panel, Comp Bubinstein-Taybi Syndrome Panel	rehensive
*Contact the lab to confirm availability of FISH probe. The	re are over	Sickle Cell Disease Globin Panel	
100 probes available		HBB Sequence Analysis	
Parental/Familial study:		Copy Number Analysis of HBA1 Stickler Syndrome Panel	, HBA2, and HBB
☐ Indicate cytogenetic finding in family member and includ	e a copy of	□ Very Early Onset Inflammatory Bo	wel Disease (VEO-IBD) Panel
the family member's report:		Waardenburg Syndrome Panel Senser (Compliance) Panel	
,		Cancer (Germine) Panel lesung:	cer Panel
Tiaqua Cultura Sarviaga		ALK/PHOX2B Germline Analysis	(Hereditary Neuroblastoma)
		Bone Marrow Failure/Myelodyspla	stic Syndrome/Leukemia Testing:
Thaw and Expansion		□ Fanconi Anemia NGS Panel	
		Inherited Red Blood Cell Disord	er Panel
DNA/RNA Extraction		 Inherited Red Blood Cell Disord Platelet Disorder Panel Telomere Disorder Panel 	er Panel
DNA/RNA Extraction		Inherited Red Blood Cell Disord Platelet Disorder Panel Telomere Disorder Panel Mitochondrial	er Panel Genome Testing
DNA/RNA Extraction DNA Extraction RNA Extraction Nuclear Genome Wide Testing		Inherited Red Blood Cell Disord Platelet Disorder Panel Telomere Disorder Panel Mitochondrial MitoGenome Sequencing and Del	er Panel Genome Testing letion Analysis*
DNA/RNA Extraction DNA Extraction RNA Extraction Nuclear Genome Wide Testing Chromosomal Microarray Analysis:		Inherited Red Blood Cell Disord Platelet Disorder Panel Telomere Disorder Panel Mitochondrial MitoGenome Sequencing and Del Rapid MitoGenome Sequencing and Del mtDNA content Analysis	er Panel Genome Testing letion Analysis* Ind Deletion Analysis*
		 Inherited Red Blood Cell Disord Platelet Disorder Panel Telomere Disorder Panel Mitochondrial MitoGenome Sequencing and Del Rapid MitoGenome Sequencing a mtDNA content Analysis *Please fill out maternal relative infor 	er Panel Genome Testing letion Analysis* Ind Deletion Analysis* mation section on page 8 if submitting
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Children's Hospital	LAST NAME FIRST NAME
LAB-1514 Rev. 1/25	MR# DOB
	PLACE PATIENT LABEL HERE <u>OR</u> COMPLETE ABOVE
Division of Genomic Diagnostics	
GENOMIC DIAGNOSTICS TEST REQUISITION	DO NOT HANDWOITE DATIENT INFORMATION HERE
*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)
DFNB1-Related Hearing Loss: □ DFNB1 locus testing (GJB2 sequence analysis and targeted deletion testing for the ΔGJB6-D13S1830 variant) □ GJB2 sequencing □ Targeted deletion testing for the ΔGJB6-D13S1830 variant Fragile X Syndrome: □ Triplet Repeat Analysis Gilbert's Syndrome: □ UGT1A1 Promoter Analysis Hereditary Leiomyomatosis and Renal Cell Carcinoma: □ FH Sequence Analysis □ FH Deletion/Duplication Analysis Li Fraumeni: □ TP53 Sequence Analysis □ FF53 Deletion/Duplication Analysis Matrix Syndrome: □ FBN1 Sequence Analysis □ TP53 Deletion/Duplication Analysis Marfan Syndrome: □ FBN1 Sequence And Deletion/Duplication Analysis Multiple Endocrine Neoplasia, Type 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	SHOX Related Disorders: SHOX Deletion/Duplication Analysis SHOX Sequence Analysis Spinal Muscular Atrophy: SMN1 & SMN2 Copy Number Analysis STRC-Related Hearing Loss: STRC Deletion/Duplication Analysis STRC Sequence Analysis Swachman-Diamond Syndrome Testing: SBDS Sequencing and Del/Dup Analysis via long range PCR (LR-PCR) + NGS Thalassemia/Sickle Cell Disease: Sickle Cell Disease Globin Panel (sequencing of HBB and Deletion/ Duplication Analysis of HBB, HBA1, HBA2) Alpha Globin (HBA1 and HBA2) Deletion/Duplication Analysis Alpha Globin (HBA1 and HBA2) Sequence Analysis Beta Globin (HBB) Deletion/Duplication Analysis Thrombophilia: Factor II Sequence Analysis for c.*97G>A Factor V Sequence Analysis for c.1601G>A Von Hippel Lindau: VHL Deletion/Duplication Analysis
□ <i>MID1</i> Sequence Analysis	Pharmacogenomic Testing
 <i>MID1</i> Deletion/Duplication Analysis OTOF-related Hearing Loss: OTOF Seq + Del/Dup PMS2-related Lynch Syndrome: 	Mercaptopurine Intolerance: DVDT15 Sequence Analysis TPMT Sequence Analysis
PMS2 Sequencing and Del/Dup Analysis via Long Range PCR (IRPCR) + NGS	Maternal Cell Contamination
PTEN Related Autism/PTEN Hamartoma Tumor Syndrome: PTEN Sequence Analysis PTEN Deletion/Duplication Analysis Prader-Willi Syndrome: Chromosome 15 Methylation Analysis	Maternal Cell Contamination: Child/Fetal sample assessment Maternal comparative sample assessment *Paternity testing not performed.
Rett Syndrome:	Known Variant Testing
MEGP2 Sequence Analysis MECP2 Deletion/Duplication Analysis Saethre Chotzen Syndrome Panel: TW/ST1 Sequence Analysis	Please fill out the known genetic abnormality section on page 2 Sequencing Variant*
TWIST1 Deletion/Duplication Analysis and FGFR3 Analysis for	Copy Number Variant*
p.Pro250Arg SMARCB1 Related Disorders:	Mitochondrial Genome Variant*
SMARCB1 Sequence Analysis	Targeted mtDNA Variant *Please check if any of the following apply: Lab Requested Besearch Positive Control
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 ^o , CLDN1, HNF1A, HNF1B, HSD3B7, JAG1, KIF12, LIPA, MYO5B, NOTCH2, NPC1, NPC2, NR1H4, SERPINA1, SLC25A13, TJP2, UNC45A, VIPAS39, VPS33B ^o 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.			
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.			

Children's Ho	spital	LAST NAME	FIRST NAME
LAB-1514 Rev. 1/25		MR#	DOB
Division of Genomic Diag	gnostics	PLACE PATIENT LABEL HERE	E <u>OR</u> COMPLETE ABOVE
*For Cancer tests please use the Cancer Test Re	equisition. Page 5 of 10	DO NOT HANDWRITE PATIE	NT INFORMATION HERE
	PANEL TESTIN	NG: GENE CONTENT	
Designates genes with copy number ana	copy number analysis, unless ysis only. For CPT codes and	s otherwise indicated. * Designates panels/genes I turnaround times, please visit our website at http	s with analysis by sequencing only; ** ps://www.testmenu.com/chop.
Connective Tissue Panel	ACTA2, B3GAT3, BGN, Ca EPHB4, FBLN5, FBN1, FB PLOD1, PLOD3, PRKG1*,	IR, C1S, COL1A1, COL1A2, COL3A1, COL4A5, N2, FLNA, FOXE3, GATA5, LOX, MAT2A, MED1 SKI, SLC2A10, SMAD2, SMAD3, SMAD4, SMA	COL5A1, COL5A2, EFEMP2, ELN, 12, MFAP5, MYH11, MYLK, NOTCH1, D6, TGFB2, TGFB3, TGFBR1, TGFBR2
Cornelia de Lange Syndrome Panel	AFF4, ANKRD11, ASXL1, J	ASXL3, HDAC8, NIPBL, PACS1, RAD21, SMC1A	A, SMC3
Craniofacial Panel	ALPL, ALX1, ALX3, ALX4, FGFR3, GLI3, IFT122, IFT PRKAR1A, RAB23, RECQ WDR19, WDR35, ZIC1	CD96, CHD7, DHODH, EFNB1, EFTUD2, ERF, I 43, MEGF8, MIR17HG**, MSX2, MYCN, PDE4D L4, RUNX2, SALL1, SF3B4, SIX1, SIX5, SKI, SF	EVC, EVC2, EYA1, FGFR1, FGFR2, , PLCB4, POLR1C, POLR1D, POR, PECC1L, TCF12, TCOF1, TWIST1,
Craniosynostosis Panel	Gene list V2: ALPL, ASXL IL11RA, MASP1, MEGF8, TGFBR1, TGFBR2, TWIS	1, CD96, CDC45, CYP26B1, EFNB1, ERF, FGFR MSX2, POR, RAB23, RECQL4, RUNX2, SKI, SL T1, WDR35, ZIC1, ZNF462.	81, FGFR2, FGFR3, IFT122, IFT43, .C25A24, SMAD6, SPECC1L, TCF12,
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, NPRL2, NPRL3, PACS2, PCDH19, PGAP3, PIGA, PIGN, PIGT, 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, STXBP1, SYN1, SYNGAP1, TBC1D24, TBCK, TCF4, TPK1, TPP1, TSC1. TSC2, UBA5, UGDH. WDR45, WWOX, ZEB2		
Hearing loss Panel (Comprehensive AUDIOME)	ABHD12, ACTG1*, ADCY1, ADGRV1, AFG2B (SPATA5L1), AIFM1, ALMS1, ARSG, ATP2B2, ATP6V1B1, ATP6V1B2, BCS1L, BSND, CABP2, CACNA1D, CCDC50, CD164, CDC14A, CDH23, CEACAM16, CEP250, CEP78, CIB2, CISD2, CLDN14, CLDN9, CLIC5, CLPP, CLRN1, COCH*, COL11A1, COL11A2, COL2A1, COL4A3, COL4A4, COL4A5, COL4A6**, COL9A1, COL9A2, COL9A3, CRYM*, DIABLO*, DIAPH1, DIAPH3*, EDN3, EDNRB, ELMOD3, EPS8, EPS8L2, ESPN, ESRP1, ESRRB, EYA1, EYA4, FGF3, GATA3, GIPC3, GJB2 [±] , GJB6**, GPSM2, GRHL2, GRXCR1, GRXCR2, GSDME, HARS2, HGF, HOMER2*, HSD17B4, ILDR1, KARS1, KCNQ1, KCNQ4, KITLG, LARS2, LHFPL5, LMX1A, LOXHD1, LRTOMT, MARVELD2, MCM2, MIR96*, MITF, MPZL2, MSRB3, MT-RNR1 (m.1555A>G)*, MT-TS1 (m.7445A>G)*, MY114*, MYH9, MYO15A, MYO3A, MYO6, MYO7A, OPA1, OSBPL2, OTOA, OTOF, OTOG, OTOGL, P2RX2*, PAX3, PCDH15, PDZD7, PJVK, PLS1*, PNPT1, POU3F4*, POU4F3, PRPS1, PTPRQ, RDX, RIPOR2, S1PR2, SERPINB6, SIX1, SLC12A2*, SLC17A8, SLC26A4, SLC52A2, SLC52A3, SLITRK6, SMPX, SNAI2, SOX10, STRC, SYNE4, TBC1D24, TECTA, TIMM8A, TJP2, TMC1, TMEM132E, TMEM43, TMIE, TMPRSS3, TPRN, TRIOBP, TUBB4B, TWNK, USH1C, USH1G, USH2A, WFS1, WHRN *Targeted variant analysis only is performed for these genes. *The ROI also includes non-coding regions in the GJB2 and POU3F4 genes for CNV analysis.		
Hemophagocytic Lymphohistiocytosis (HLH) Panel	Gene list V2: ADA, AP3B1, AP3D1, BLOC1S6, BTK, CARMIL2, CD27, CD70, CDC42, CORO1A, CTPS1, CYBA, CYBB, CYBC1, DPP9, FAAP24, FADD, FAS, FASLG, GATA2 [±] , HAVCR2, HPS6, IFNGR1, IFNGR2, IKBKG ^{+#} , IKZF2, IL12RB1, IL2RG, IRF8, ITK, LAMP1, LIPA, LYST, MADD, MAGT1, MCM4, MEFV, MVK, NBAS, NCF2, NCF4, NCKAP1L, NFKB1, NLRC4, NLRP3, PIK3CD ⁺ , PIK3R1, PNP, PRF1, PRKCD, RAB27A, RASGRP1, RC3H1, RHOG, SH2D1A, SLC7A7, STAT1, STAT2, STX11, STXBP2, STXBP3, TBXAS1, TNFRSF1A, UNC13D [±] , WAS, XIAP [#] /KBKG is NOT covered on the Rapid HLH Panel analysis [±] The ROI includes a non-coding region in GATA2 for SNV analysis, as well as the pathogenic recurrent 253kb inversion variant in UNC13D [PMID: 21931115].		
Hemophagocytic Lymphohistiocytosis (HLH), Rapid	ADA, AP3B1, AP3D1, BLOC1S6, BTK, CARMIL2, CD27, CD70, CDC42, CORO1A, CTPS1, CYBA, CYBB, CYBC1, DPP9, FAAP24, FADD, FAS, FASLG, GATA2 [±] , HAVCR2, HPS6, IFNGR1, IFNGR2, IKZF2, IL12RB1, IL2RA, IL2RG, IRF8, ITK, LAMP1, LIPA, LYST, MADD, MAGT1, MCM4, MEEV, MVK, NBAS, NCF2, NCF4, NCKAP1L, NFKB1, NLRC4, NLRP3, PIK3CD [*] , PIK3R1, PNP, PRF1, PRKCD, RAB27A, RASGRP1, RC3H1, RHOG, SH2D1A, SLC7A7, STAT1, STAT2, STX11, STXBP2, STXBP3, TBXAS1, TNFRSF1A, UNC13D [±] , WAS, XIAP [±] The ROI includes a non-coding region in GATA2 for SNV analysis, as well as the pathogenic recurrent 253kb inversion variant in UNC13D [PMID: 21931115].		
Kabuki Syndrome Panel	KMT2D, KDM6A		
Ketotic Hypoglycemia Panel	ACAT1, AGL, G6PC, GYS	2, OXCT1, PHKA2, PHKB, PHKG2, PYGL, SLC1	6A1, SLC37A4
Neonatal Respiratory Distress Panel	ABCA3, AP3B1, COPA, CSF2RA, CSF2RB, CTC1, DKC1, FARSB, FLNA, FOXF1 ^s , HPS1, HPS4, ITGA3, JAG1, MARS, NKX2-1, NOTCH2, OAS1, PARN, RTEL1, SFTPB, SFTPC, SLC7A7, TERC, TERT, TINF2 [§] The upstream regulatory region of the <i>FOXF1</i> gene is included in the analysis.		
Noonan Spectrum Disorders Panel	A2ML1*, BRAF*, CBL*, HF RAF1*, RASA2*, RIT1*, RI	RAS*, KRAS*, LZTR1, MAP2K1*, MAP2K2*, MRA RAS*, SHOC2*, SOS1*, SOS2*, SPRED1	AS*, NF1*, NRAS*, PPP1CB*, PTPN11*,
Osteogenesis Imperfecta Panel	COL1A1, COL1A2, IFITM5	5*	

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Division of Genomic Diag GENOMIC DIAGNOSTICS TEST *For Cancer tests please use the Cancer Test Re	REQUISITION quisition. Page 6 of 10	DO NOT HANDWRITE PATIE	ENT INFORMATION HERE	
The following panels include both sequence and Designates genes with copy number analy	PANEL TESTI copy number analysis, unles /sis only. For CPT codes an	NG: GENE CONTENT ss otherwise indicated. * Designates panels/gene d turnaround times, please visit our website at ht	s with analysis by sequencing only; ** tps://www.testmenu.com/chop.	
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 CFTR are included in the analysis.			
Pneumothorax Panel	COL3A1, FBN1, FLCN, T	GFBR1, 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 CFTR are included in the application.			
Pulmonary Arterial Hypertension Panel	ABCC8, ACVRL1, BMPR1B, BMPR2, CAV1, EIF2AK4, ENG, FOXF1 ^{\$} , GDF2, KCNA5, KCNK3, RASA1, SMAD4, SMAD9, SOX17, TBX4 [§] The unstream regulatory region of the EOXE1 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, DNAAF11, DNAH1, DNAH5, DNAH6, DNAH8, DNAH9, DNAH11, DNAI1, DNAI2, DNAJB13, DNAL1, DRC1, EIF2AK4, ENG, FARSB, FLNA, FOXF1 ⁸ , 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 upstream regulatory region of the FOXF1 gene is included in the analysis.			
Rubinstein-Taybi Syndrome Pane	CREBBP, EP300			
Sickle Cell Disease Globin Panel	HBB, HBA1**, HBA2**			
Stickler Syndrome Pane	Gene list V2: BMP4, COL11A1, COL11A2, COL2A1, COL9A1, COL9A2, COL9A3, GZF1, LOXL3, LRP2, PLOD3, VCAN			
Very Early Onset Inflammatory Bowel Disease (VEO-IBD) Panel	Gene list V2: ADA, ADAM17, AICDA, AIRE, ARPC1B, BTK, CARMIL2, CD19, CD40, CD40LG, CD55, CD81, 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, RAB2TA, RAC1, RAC2, RAG1, RAG2, RET, RFX5, RFXANK, RFXAP, RIPK1, 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 [‡] The ROI also includes a non-coding region in TERC for CNV analysis, as well as the pathogenic recurrent 253kb inversion variant in UNC13D [PMID: 21931115].			
Waardenburg Syndrome Panel	EDN3, EDNRB, MITF, PA	X3, SNAI2, SOX10		
Cancer (Germline) Panel Testing: Comprehensive Hereditary Cancer Testing				
Comprehensive Hereditary Cancer Panel	ABCB11, AIP, ALK*, APC [±] , ARID5B, ATM, AXIN2, BAP1, BARD1, BLM, BMPR1A, BRCA1, BRCA2, BRIP1, BUB1B, CBL*, CDC73, CDH1, CDK4*, CDKN1B, CDKN1C, CDKN2A, CEBPA, CEBPE, CHEK2, COL7A1, CTNNA1, 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, GPC3, GREM1, HABP2, HAX1, HFE, HMBS, HRAS*, IKZF1, ITK, KIT*, KRAS*, LZTR1, MAX, MEN1, MET*, MLH1, MLH3, MPL, MSH2, MSH3, MSH6, MTAP, MUTYH, NBN, NF1, NF2, NTHL1, PALB2, PAX5, PDGFRA*, PHOX2B, PMS2, POLD1*, POLE*, POLH, POT1, PRKAR1A, PRSS1*, PTCH1, PTEN, PTPN11*, RAD50, RAD51C, RAD51D, RB1, RECQL4, RET*, RHBDF2, RMR [±] , RNF43, RUNX1, SBDS, SDHA, SDHAF2, SDHB, SDHC, SDHD, SERPINA1, SH2B3, SH2D1A, SLC25A13, SMAD4, SMARCA4, SMARCB1, SMARCE1, SOS1*, STAT3, STK11, SUFU, TERC [±] , TERT, TGFBR1, TINF2, TMEM127, TP53, TRIM37, TSC1, TSC2, UROD, VHL, WAS, WRN, WT1, XPA, XPC [±] The ROI includes promoter and/or non-coding regions of APC (promoter region and noncoding region for SNV analysis), and TERC (promoter and non-coding regions for SNV/CNV analysis), and TERC (promoter and non-coding regions for SNV/CNV analysis).			

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Division of Genomic Diag GENOMIC DIAGNOSTICS TEST *For Cancer tests please use the Cancer Test Rec	nostics REQUISITION quisition. Page 7 of 10	DO NOT HANDWRITE PATIEN	IT INFORMATION HERE
The following panels include both sequence and c Designates genes with copy number analys	PANEL TESTIN opy number analysis, unless sis only. For CPT codes and	IG: GENE CONTENT s otherwise indicated. * Designates panels/genes turnaround times, please visit our website at http:	with analysis by sequencing only; ** s://www.testmenu.com/chop.
Hereditary Cancer Panels: Bone Marrow Failure/Myd	elodysplastic Syndrome/Le	eukemia Testing	
Bone Marrow Failure Panel	Gene list V2: ABCB7, ABCG5, ABCG8, ACD, ACTN1*, ADA2, AK2, ALAS2, ANKRD26**, AP3B1, ATM, ATR, BLM, BRCA1, BRCA2, BRIP1, CARD11, CBL*, CDAN1, CDIN1, CDKN2A, CEBPA, CHEK2, CLPB, CSF3R, CTC1, CXCR2, CXCR4*, CYCS, DBF4, DDX11, DDX41, DKC1, DNAJC21, DNMT3A, EFL1, EIF2AK3, ELANE, EPCAM**, ERCC4, ERCC6L2, ESCO2, ETV6, FANCA, FANCB, FANCC, FANCC2, FANCE, FANCF, FANCG, FANCI, FANCI, FANCM, G6PC3, GATA1, GATA2*, GF11*, GLRX5, GP1BA, GP1BB, GP9, HAX1, HEATR3, HOXA11, IKZF1, ITGA2B, ITGB3, JAGN1, KCNN4, KIF23, KLF1, KRAS*, LAMTOR2, LIG4, LYST, MAD2L2, MECOM, MLH1, MPL, MSH2, MSH6, MYH9, MYSM1, NAF1, NBN, NF1, NHEJ1, NHP2, NOP10, PALB2, PARN, PAX5, PMS2, POT1, PTPN11*, RAB27A, RAC2, RAD51, RAD51C, RBM8A, RMRP*, RPA1*, RP115, RPL15, RPL19, RPL26, RPL27, RPL31, RPL35, RPL35A, RPL4, RPL5, RPL9, RPS10, RPS15A, RPS17, RPS19, RPS20, RPS24, RPS26, RPS27, RPS28, RPS29, PRS7, RTEL1, RUNX1, SAMD9, SAMD9L, SASH3, SBDS, SEC23B, SEC61A1, SH283, SH2D1A, SLC25A38, SLC37A4, SLX4, SOS1*, SRP19, SRP54, SRP68, SRP72, SRPRA, STAT3, STIM1, STK4, STN1, TAFAZZIN, TCIRG1, TERC*, TERT, THPO, TINF2, TP53, TSR2, TUBB1, UBE2T, USB1, VPS13B, VPS45, WAS, WIFF1, WRAP53, XRCC2, ZCCHC8 *The ROI also includes promoter and/or non-coding regions of ANKRD26 (non-coding region for SNV analysis), and TERC (promoter and non-coding region for SNV analysis), and TERC (promoter and non-coding region for SNV analysis), and TERC		
Fanconi Anemia NGS Panel	Gene list V2: ATM, BLM, BRCA1, BRCA2, BRIP1, DDX11, ERCC4, ESCO2, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, LIG4, MAD2L2, NBN, NHEJ1, PALB2, RAD51, RAD51C, SLX4, UBE2T, XRCC2		
Inherited Red Blood Cell Disorder Panel	Gene list V2: ABCB7, ABCG5, ABCG8, AK1, ALAS2, ALDOA, ANK1, CDAN1, CDIN1, COL4A1, EPB41, EPB42, G6PD, GATA1, GCLC, GLRX5, GPI, GPX1, GSR, GSS, HEATR3, HK1, KCNN4, KIF23, KLF1, MYSM1, NT5C3A, PFKM, PGK1, PIEZO1, PKLR, RHAG, RPL11, RPL15, RPL9, RPL26, RPL27, RPL31, RPL35, RPL35A, RPL4, RPL5, RPL9, RPS10, RPS15A, RPS17, RPS19, RPS20, RPS24, RPS26, RPS27, RPS28, RPS29, RPS7, SEC23B, SLC25A38, SLC2A1, SLC4A1, SPTA1, SPTB, TPI1, TSR2, XK		
Platelet Disorder Panel:	ABCG5, ABCG8, ACTN1*, ADA2, ADAMTS13, ANKRD26* [‡] , ANO6, AP3B1, AP3D1, ARPC1B, BLOC1S3, BLOC1S6, C3, CARD11, CASP10, CD46, CDC42, CFB, CFH, CFHR1, CFHR3, CFHR4, CFI, COL4A1, CTLA4, CYCS, DGKE, DIAPH1, DTNBP1, ETV6, FADD, FAS, FASLG, FERMT3, FLI1, FLNA, FYB1, GATA1, GATA2 [‡] , GFI1B, GNE, GP1BA, GP1BB, GP6, GP9, HOXA11, HPS1, HPS3, HPS4, HPS5, HPS6, IKZF1, IKZF5, ITGA2, ITGA2B, ITGB3, ITK, KDSR, KRAS*, LIG4, LRBA, LYST, MAGT1, MECOM, MPIG6B, MPL, MYH9, MYO5A, NBEAL2, P2RY12, PLA2G4A, PLAU, PLG, PRKACG, PRKCD, PTGS1, PTPN11*, PTPRJ, RAB27A, RASGRP2, RBM8A, RUNX1, SH2D1A, SLC4A1, SLFN14, SRC*, SRP72, STAT3, STIM1, STX11, STXBP2, TBXA2R, TBXAS1, TCN2, THBD, THPO, TPM4, TRPM7, TUBB1, UNC13D [‡] , VIPAS39, VPS33B, WAS, WIPF1, XIAP		
Telomere Disorder Panel	Gene list V2: ACD, CTC1, DKC1, NAF1, NHP2, NOP10, PARN, POT1, RPA1*, RTEL1, STN1, TERC [‡] , TERT, TINF2, USB1, WRAP53, ZCCHC8 [‡] The ROI also includes the promoter and non-coding regions of <i>TERC</i> .		

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Division of Genomic Diagnostics				
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HEARING LOSS HISTORY (I	required in	Hearing Loss Panel requested of	on page 3)	
Age of onset: Congenital Childhood (pr	e-lingual)	Childhood/Adolescence (post-l	ingual) 🗌 Adulthood	
Type of hearing loss:	nductive [Auditory neuropathy/dyssynchro	ony 🗌 Mixed	
Laterality: 🗌 Bilateral 🗌 Unilateral-R 🗌 Unila	iteral-L			
Progression : Stable Progressive Flu	ctuating] Unknown		
Severity (PTA): *Please send audiogram if per	rformed ou	utside CHOP		
Left Ear (if sloping, check all that apply): Mild (15-30dB) Moderate (31-50dB) Profound (>90db)] Moderate	ly-severe (51-70dB)	90dB)	
Right Ear (if sloping, check all that apply): Mild (15-30dB) Moderate (31-50dB) [Profound (>90db)	_ Moderat	tely-severe (51-70dB) 🗌 Severe (7	1-90dB)	
Audiogram shape/frequencies:				
Left Ear: Flat (all frequencies) Slopin Rising (low frequency)	g (high fre	quency) 🗌 Saucer-shaped (mid fr	equency)	
Right Ear: Flat (all frequencies) Sloping (high frequency) Saucer-shaped (mid frequency) Rising (low frequency)				
Exposure to aminoglycoside antibiotics (e.g	gentamic	in, neomycin, tobramycin, amika	acin):	
Visual differences: 🗌 No 🗌 Yes				
Specify differences:				
		<i>,</i> , , , , , , , , , , , , , , , , , ,		
Maternal Relative Information for Mitochono	arial lestii	ng (required if Mitochondrial Tes	iting requested on page 4)	
A maternal relative may be submitted as part of submitting a maternal relative please fill out the	this analys following	sis at the time of proband specime information:	n submission. If you are	
Name:				
DOB:				
Relationship to proband:				
Specimen Source: Blood Saliva	Muscle	Other:		
Is this individual affected? Yes No				
If affected, what are this individual's sympto	oms?			

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	Sample E	Poquiromonte	

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, 0.5cm³ 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 REQUI	SITION			
*For Cancer tests please use the Cancer Test Requisition.	Page 10 of 10	DO NOT HANDWR	ITE PATIENT INFORMATION HERE	
Billing Opt	ions (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.				
li	nstitutiona	al Billing Option		
ICD-10 Diagnosis Codes for Billing:				
Bill to Institution/Department:				
Address:				
Billing Contact:				
Phone:		Fax:		
Email:				
	Self F	Pay Option		
Total Cost Approved:	Crec	lit Card: 🗌 Visa 🔲 Ameri	can Express 🗌 Discover 🗌 MC	
Name on Card:				
Cardholder Date of Birth:				
Month/Day/Ye	ar			
Card Number:				
Expiration Date: Month/Year	C	CCV (security # on back):		
Billing Address:				
Phone:		Email:		
		Driptod Norse		
Caronolder Signature *Cardholders signature indicates authorization	to bill Cre	dit Card	Jale (Wohlin/Day/Year) Time	