

GERMLINE/HEREDITARY TESTS - 1 EDTA Purple Top Tube, Whole Blood (EVEN IF MULTIPLE TESTS ORDERED) PB= Peripheral Blood			
Test	CPT	TAT days	Specimen Type
BRCA1 and BRCA2 Sequencing and Full Deletions/ Duplications	81162, G0452	5-10	PB
Customized Hereditary Cancer Testing (94 genes)	81455	5-10	PB
Cystic Fibrosis	81220, 81224 (poly T allele, reflex), G0452	5-7	PB
Expanded Analysis of Previous Hereditary Risk Testing	N/A	14	PB
Factor V (Leiden)	81241, G0452	5-7	PB
Familial Mediterranean Fever (FMF) -not tested by HFH CPD	81402 Z-Code ZB0Q2	9-16	PB
Fragile X Syndrome	81243, G0452	5-7	PB
Hereditary Breast Cancer Risk Panel (15 genes)	81162, 81307, 81321, 81323, 81404, 81405x2, 81406, 81408x2, G0452	5-10	PB
Hereditary Breast/Ovarian Cancer-Related Gene Sequence Analysis with deletion/duplication (20 genes)	81432, 81433, G0452	5-10	PB
Hereditary Colorectal/HNPCC Cancer Risk Panel (21 genes)	81435, 81436, G0452	5-10	PB
Hereditary Endometrial Cancer Risk Panel (17 genes)	81432, 81433, G0452	5-10	PB
Hereditary Hemochromatosis (HFE)	81256, G0452	5-7	PB
Hereditary Melanoma Risk Panel (10 genes)	81404, G0452	5-10	PB
Hereditary Multi-Cancer Risk Assessment Panel (50 genes)	81432, 81433, 81435, 81436, 81437, 81438, G0452	5-10	PB
Hereditary Neuroendocrine Tumor Disorders Risk Panel (15 genes)	81437, 81438, G0452	5-10	PB
Hereditary Renal/Urinary Tract Cancer Panel (27 genes)	81292, 81295, 81298, 81307, 81317, 81321, 81351, 81404x2, 81405x4, 81406, 81407, 81438, G0452	5-10	PB
Methylenetetrahydrofolate reductase (MTHFR) -not tested by HFH CPD	81291 Z-code: ZB0WQ	5-7	PB
PGx- Cytochrome P450 2C9 (CYP2C9)	81227, G0452	5-7	PB
PGx- Cytochrome P450 2C19 (CYP2C19)	81225, G0452	5-7	PB
Prothrombin 20210 G -->A	81240, G0452	5-7	PB
Spinal Muscular Atrophy (SMA) Screening	81329, G0452	5-7	PB
Thrombotic Risk Profile (Factor V Leiden + Prothrombin 20210G-->A)	81241, 81240, G0452	5-7	PB

CYTOGENOMIC TESTS

Most tests require whole blood or bone marrow in a sodium heparin, dark green top tube, NO separator
***Special instructions for Microarray**
PB = Peripheral Blood BM = Bone Marrow

Test	CPT	TAT days	Specimen Type
Chromosome Analysis, Blood - Congenital/Reproductive Disorders	88230, 88262, 88291	7-21	PB - Sodium Heparin
Chromosome Analysis, Blood- High Resolution, Congenital/Reproductive Disorders	88230, 88262, 88289, 88291	7-21	PB - Sodium Heparin
Chromosome Analysis, Amniotic Fluid	88235, 88267, 88280, 88285, 88291	7-14	Amniotic Fluid & Maternal PB EDTA
Chromosome Analysis, Chorionic Villus Sample (CVS)	88235, 88267, 88280, 88285, 88291	7-14	CVS
Chromosome Analysis, Products of Conception (POC) or Skin Biopsy	88233, 88262, 88291	14-28	Tissue add Maternal PB EDTA (for POC)
Chromosome Analysis, Oncology - Bone Marrow/Blood/Lymph node	88237x2, 88264, 88280, 88291	5-10	BM or PB or Tissue
Chromosome Analysis, Oncology - Tumor	88239, 88264, 88280, 88291	14-28	Tissue
Cytogenetics Analysis (OTHER-SEND OUT)	Varies based on genes selected. Please call 313-916-4DNA	Varies	Varies
Her-2/neu Gene Amplification Assay (FISH) (For non-HFHS orders only, enter test name and CPT code)	88377	3-5	FFPE Tissue
FISH Bile Tract Malignancy	88377	5-7	Brushing
FISH Constitutional/Reproductive Disorder Testing	88271x3, 88273, 88275	5-7	PB - Sodium Heparin
FISH Oncology Testing: Bone Marrow/Tumor/Lymph Node	88271x10, 88275x5	5-7	BM or Tissue
FISH Oncology Testing: Leukemic Blood	88271x10, 88275x5	5-7	PB - Sodium Heparin
FISH Prenatal Aneuploidy Screen	88271x5, 88274x2	5-7	PB - Sodium Heparin
FISH UroVysion for Bladder Cancer	88120	5-7	Special Urine Collection
HFCDP Miscarriage Panel (MCC and Microarray, POC)	81229, 81265	7-28	Tissue and Maternal PB EDTA
Maternal Cell Contamination (MCC Studies)	81265	7-28	PB- Lavender
Microarray, Amniotic Fluid/Chorionic Villi/Products of Conception	81229	7-21	Amniotic Fluid or Tissue and Maternal PB EDTA or FFPE Tissue
Microarray, Blood- Congenital Disorders	81229	7-21	1 PB Sodium Heparin & 1 PB EDTA
Microarray, Leukemic Blood/Bone Marrow - Oncology	81277	7-21	1 Leukemic PB or BM, Sodium Heparin
Microarray, Paraffin Embedded, Tumor	81277	7-21	FFPE Tissue
Y Chromosome Microdeletion	81403	Varies	1 PB Sodium Heparin & 1 PB EDTA

HEMATOLOGIC AND HEMATOLYMPHOID TESTS (page 1)		Peripheral Blood (PB)	
		Bone Marrow (BM)	
Test	CPT	TAT days	Specimen Type
ALL Sequencing Panel, blood	81455, G0452	5-7	PB
ALL Sequencing Panel, bone marrow	81455, G0452	5-7	BM
B Cell Gene Rearrangement, Blood	81261, G0452	5-7	PB
B Cell Gene Rearrangement, Bone Marrow	81261, G0452	5-7	BM
BCR-ABL t(9;22), p210, Blood	81206, G0452	3-5	PB
BCR-ABL t(9;22), p210, Bone Marrow	81206, G0452	3-5	BM
BCR-ABL t(9;22), p190, Blood	81207, G0452	3-5	PB
BCR-ABL t(9;22), p190, Bone Marrow	81207, G0452	3-5	BM
CALR Mutation, Blood	81219, G0452	5-10	PB
CALR Mutation, Bone Marrow	81219, G0452	5-10	BM
CBFb/MYH11 inv(16), Blood	81401, G0452	3-5	PB
CBFb/MYH11 inv(16), Bone Marrow	81401, G0452	3-5	BM
CLL/SLL Sequencing Panel, Blood	81450, G0452	5-10	PB
CLL/SLL Sequencing Panel, Bone Marrow	81450, G0452	5-10	BM
FLT3 Mutation Assessment, Blood	81245, 81246, G0452	5-10	PB
FLT3 Mutation Assessment, Bone Marrow	81245, 81246, G0452	5-10	BM
Hematolymphoid Neoplasm or Disorder Sequencing Panel (1-4 genes), Blood	Varies based on genes selected. Please call 313-916-4DNA	5-10	PB
Hematolymphoid Neoplasm or Disorder Sequencing Panel (1-4 genes), Bone Marrow	Varies based on genes selected. Please call 313-916-4DNA	5-10	BM
Hematolymphoid Neoplasm or Disorder Sequencing Panel (5-50 genes), Blood	81450, G0452	5-10	PB
Hematolymphoid Neoplasm or Disorder Sequencing Panel (5-50 genes), Bone Marrow	81450, G0452	5-10	BM
IDH1, Blood	81120, G0452	5-10	PB
IDH1, Bone Marrow	81120, G0452	5-10	BM
IDH2, Blood	81121, G0452	5-10	PB
IDH2, Bone Marrow	81121, G0452	5-10	BM
JAK2 Mutation, Blood	81279, G0452	5-10	PB
JAK2 Mutation, Bone Marrow	81279, G0452	5-10	BM
Lymphoid Neoplasm Sequencing Panel, Blood	81450, G0452	5-10	PB
Lymphoid Neoplasm Sequencing Panel, Bone Marrow	81450, G0452	5-10	BM
Microsatellite Instability w/IHC, Blood	MSI: 81301, G0452 IHC: 88341x3, 88342; Reflex to MLH1: 81288	5-7	PB
MPL, Blood	81339, G0452	5-10	PB

HEMATOLOGIC AND HEMATOLYMPHOID TESTS (page 2)		Peripheral Blood (PB)	
		Bone Marrow (BM)	
Test	CPT	TAT days	Specimen Type
MPL, Bone Marrow	81339, G0452	5-10	BM
MYD88, Blood	81305, G0452	5-10	PB
MYD88, Bone Marrow	81305, G0452	5-10	BM
Myeloid PLUS Sequencing Panel, Blood	81450, G0452	5-10	PB
NPM1 Mutation, Blood	81310, G0452	5-10	PB
NPM1 Mutation, Bone Marrow	81310, G0452	5-10	BM
Nucleic Acid Extract and Hold, Bone Marrow	N/A	N/A	BM
PML-RARA t(15;17), Blood	81315, G0452	3-5	PB
PML-RARA t(15;17): APL, Bone Marrow	81315, G0452	3-5	BM
Rapid AML Sequencing Panel, Blood	81455, G0452	5-10	PB
Rapid AML Sequencing Panel, Bone Marrow	81455, G0452	5-10	BM
T Cell Rearrangement Beta, Blood	81340, G0452	5-7	PB
T Cell Rearrangement Beta, Bone Marrow	81340, G0452	5-7	BM
T Cell Rearrangement Gamma, Blood	81342, G0452	5-7	PB
T Cell Rearrangement Gamma, Bone Marrow	81342, G0452	5-7	BM
TP53, Blood	81351, G0452	5-7	PB
TP53, Bone Marrow	81351, G0452	5-7	BM

SOLID TUMOR TESTING

Test	CPT	TAT days	Specimen Type
1p19q Loss of Heterozygosity (LOH) - Tissue	81402, G0452	5-7	Tissue
1p19q Loss of Heterozygosity (LOH) - Blood	81402, G0452 (not billed additionally when run with tissue sample)	5-7	Peripheral Blood
Breast Cancer Solid Tumor Sequencing Panel	81162, 81309, G0452	5-10	Tissue
Colorectal Solid Tumor Gene Sequencing Panel	81210, 81275, 81276, 81311, G0452	5-10	Tissue
Comprehensive Sarcoma Gene Fusion Panel: 26 genes available	81445, G0452	5-10	Tissue
Comprehensive Solid Tumor Gene Fusion Panel: >50 genes available	81455, G0452	5-10	Tissue
Comprehensive Solid Tumor Panel: 170 genes	81455, G0452	10-20	Tissue
EGFRvIII- Brain Tumor	81403, G0452	5-7	Tissue
Expanded HFCI Panel	81445, G0452	5-10	Tissue
Gastrointestinal Solid Tumor Gene Sequencing Panel	81272, 81314, G0452	5-10	Tissue
Gestational Disease Profile	81265, G0452	5-7	Tissue
Glioma Solid Tumor Sequencing Panel	81445, G0452	5-10	Tissue
HFCI Lung Cancer Molecular Workup	81445, G0452	5-10	Tissue
Lung Cancer Gene Fusion Panel	81445, G0452 (88363 or 88381 may apply)	5-10	Tissue
Lung Cancer Solid Tumor Gene Sequencing Panel	81445, 88377x2, G0452	5-10	Tissue
Melanoma Solid Tumor Gene Sequencing Panel	81445, G0452	5-10	Tissue
MGMT Methylation	81287, G0452	5-7	Tissue
Microsatellite Instability (MSI) w/IHC, Tissue	MSI: 81301, G0452 IHC: 88341x3, 88342 Reflex to MLH1: 81288	5-7	Tissue
MLH1 Methylation (use only if needed to accompany previous MSI testing)	81288, G0452	5-7	Tissue
PD-L1 Expression by ImmunoHistoChemistry (IHC): Clone 22C3	88360, G0452	3-5	Tissue
PD-L1 Expression by ImmunoHistoChemistry (IHC): Clone 28-8	88360, G0452	3-5	Tissue
PD-L1 Expression by ImmunoHistoChemistry (IHC): Other	88360, G0452	Varies	Tissue
Solid Tumor BRAF Gene Mutation	81210, G0452	5-10	Tissue
Solid Tumor EGFR-TKI (Lung) Gene Mutation	81235, G0452	5-7	Tissue
Solid Tumor Gene Sequencing Custom Panel: 5-50 genes	81445, G0452	Varies based on genes selected	Tissue
Solid Tumor Individual Gene Sequencing: 1-4 genes	Varies based on genes selected. Please call 313-916-4DNA	Varies based on genes selected	Tissue
Solid Tumor KRAS Gene Mutation	81275, 81276, G0452	5-10	Tissue
Solid Tumor Mutation IDH1	81120, G0452	5-10	Tissue
Solid Tumor Mutation IDH2	81121, G0452	5-10	Tissue
Solid Tumor NRAS Gene Mutation	81311, G0452	5-10	Tissue
Solid Tumor KIT Gene Mutation	81272, G0452	5-10	Tissue
Solid Tumor MET Gene Mutation	81479, G0452	5-10	Tissue
Solid Tumor PDGFRA Gene Mutation	81314, G0452	5-10	Tissue

MISCELLANEOUS TESTING		See Lab User's Guide for collection instructions	
Test	CPT	TAT days	Specimen Type
Molecular Pathology and Genomic Test, not specified (BLOOD)	Varies based on testing requested. Please call 313-916-4DNA	Varies based on testing selected	PB
Molecular Pathology and Genomic Test, not specified (NON-BLOOD)	Varies based on testing requested. Please call 313-916-4DNA	Varies based on testing selected	Non-Blood
Tissue Identity (non-paternity), Blood	81265, 88381 may apply, G0452	5-7	PB
Tissue Identity (non-paternity), Tissue	81265, 88381 may apply, G0452	5-7	Tissue