LG-OrT-FR-026	MOLECULAR GENETICS AND CYTOGENETICS TESTS REQUEST FORM

Karyotyping and Rapid Aneuploidy (QF PCR) Analyses	
□**C8392391**	Karyotyping (Chromosome Analysis); Abortion Material+Rapid Aneuploidy Analysis (X, Y, 13, 18, 21)
□**C8390788**	Karyotyping (Chromosome Analysis); Amniotic Fluid+Rapid Aneuploidy Analysis (X, Y, 13, 18, 21)
□**C8390715**	Karyotyping (Chromosome Analysis); Chorionic Villus Sampling (CVS)+Rapid Aneuploidy Analysis (X, Y, 13, 18, 21)
□**C8390703**	Karyotyping (Chromosome Analysis); Peripheral Blood
□**C8392374**	Karyotyping (Chromosome Analysis); Fetal Blood (Cordocentesis)+Rapid Aneuploidy Analysis (X, Y, 13, 18, 21)
□**C8390702**	Karyotyping (Chromosome Analysis); Bone marrow
□**C8390711**	Karyotyping (Chromosome Analysis); Hemato-oncologic (peripheral blood)
□**C8392322**	Chromosomal Instability Syndromes, DEB Test
□**C8391003**	Chromosomal Instability Syndromes; MMC Test
□**C8392297**	Chromosomal Instability Syndromes, Spontaneous Breakage Analysis
□**C8392035**	Karyotyping (Chromosome Analysis) Solid Tissue Sampling (Skin Biopsy)
□**C8392249**	Karyotyping (Subtelomeric Screening); Infertility, Bad Obstetric History Panels

FISH Panels	
□**C8389976**	**FISH_CML Panel;** t(9;22) BCR/ABL, CEP8, t(15;17) PML/RARA
□**C8389920**	**FISH_ALL Panel;** 8q24 cMYC, 9p21/CEP9 P16 (CDKN2A), t(9;22) BCR/ABL, 11q23 MLL, t(12,21) TEL/AML1, 14q32 IGH, 17p13 P53, E2A/PBX1 t(1;19), Trisomy 10, Trisomy 4, Monosomy 3
□**C8389926**	**FISH_NHL (Non Hodgkin Lymphoma) Panel;** 3q27.3 BCL6, t(8;14) IGH/MYC, t(11;14) CCND1/IGH, t(14;18) IGH/BCL2, 14q32 IGH, 17p13 P53, 18q21 MALT1
□**C8389980**	**FISH_Multiple Myeloma (MM) Panel;** t(4;14) IGH/FGFR3, t(11;14) IGH/CCND1, del 13 (RB1)/D13S25 (13q14), del D134S319/13q34/Trisomy 12, t(14;16) IGH/MAF, 14q32 IGH, 17p13.1 p53
□**C8389922**	**FISH_CLL Panel**; MYB (6q23.3)/D6Z1, ATM (11q22.3), IGH/CCND1, 13q14/13q34/CEP12, RB1/13q14), IGH (14q32), IGH/BCL2, TP53 (17p13.1)/CEP17
□**C8392621**	**FISH_AML Panels;** 5p15.31/5q31.1 EGR1, 7q22.1/7q31, t(8;21) AML1/ETO, 11q23 MLL, 16q22 (inv16), t(15;17) PML/RARA, 17p13 P53 t(6;9)(p22;q34) DEK/NUP214, t(7;12)(q36;p13) MNX1/ETV6, t(9;22) inv (3)
□**C8392622**	**FISH_MDS Panels;** 5p15.31/5q31.1 EGR1, 7q22.1/7q31, 17p13 P53, 20q12/20q13.12, Trisomy 8
□**C8392629**	**FISH_MPN Panels;** FIP1L1/CHIC2/PDGFRA, t(9;22) BCR/ABL, 7q22/del 7q36, 13q34, +8 (trisomy 8), 17p13.1 (p53), 20q12, Trisomy 21
□**C8392644**	**FISH_Neuroblastoma Panels;** (1p, 11q, 17q and N-MYC)

Microarray (Molecular Karyotyping) Analyses	
□**C8392124**	**Abortion Material_Microarray + Chromosome Analysis + Rapid Aneuploidy Analysis**
□**C8392094**	**Microarray (Postnatal Diagnostic Array)**
□**C8392100**	**Amniotic Fluid_TRIO Prenatal Microarray + Chromosome Analysis + Rapid Aneuploidy Analysis** **Note:** Parent-fetal analyses done together. EDTA and heparinized blood samples of parents are required. Rapid aneuploidy analysis (QF PCR), long-term cell-tissue culture, and chromosome analysis are included.
□**C8392163**	**CVS_TRIO Prenatal Microarray + Chromosome Analysis + Rapid Aneuploidy Analysis** **Note:** Parent-fetal analyses done together. EDTA and heparinized blood samples of parents are required. Rapid aneuploidy analysis (QF PCR), long-term cell-tissue culture, and chromosome analysis are included
□**C8392274**	**CVS_ Prenatal Microarray + Chromosome Analysis + Rapid Aneuploidy Analysis** **Note:** Rapid aneuploidy analysis (QF PCR), long-term cell-tissue culture, and chromosome analysis are included.
□**C8392275**	**Amniotic Fluid_Prenatal Microarray + Chromosome Analysis + Rapid Aneuploidy Analysis** **Note:** Rapid aneuploidy analysis (QF PCR), long-term cell-tissue culture, and chromosome analysis are included.
□**C8392409**	**Fetal Blood (Cordocentesis)_Prenatal Microarray + Chromosome Analysis + Rapid Aneuploidy Analysis** **Note:** Rapid aneuploidy analysis (QF PCR), long-term cell-tissue culture, and chromosome analysis are included.
□**C8392278**	**Microarray, Prenatal Array, Parents**

FISH Analyses	
□**C8392072**	FISH_ t(11;19)(MLL/MLLT1)
□**C8392073**	FISH_ t(9;11) MLLT3/MLL
□**C8392232**	FISH_t(4;11) MLL/AFF1
□**C8389913**	FISH_t(11;14) IgH/CCND1
□**C8389910**	FISH_t(14;18) IgH/BCL2
□**C8389966**	FISH_t(15;17) PML/RARA
□**C8389914**	FISH_(3q27) BCL6
□**C8389911**	FISH_t(8;14) IGH/MYC
□**C8389965**	FISH_t(9;22) BCR/ABL
□**C8389967**	FISH_t(8;21) AML1/ETO
□**C8392617**	FISH_t(6;9) DEK NUP214
□**C8392238**	FISH_IKZF1 (7p12.2)
□**C8392411**	FISH_IKZF3
□**C8392237**	FISH_CRLF2 Rearrangement
□**C8389948**	FISH_+12 (Trisomy 12)
□**C8389950**	FISH_+8 (Trisomy 8)
□**C8389982**	FISH_18q21 (MALT1)
□**C8389957**	FISH_Del 11q22.3 (ATM)
□**C8389921**	FISH_Del 13q14 (D13S25)
□**C8389975**	FISH_Del 13q14 (D13S319, DLEU1)
□**C8389969**	FISH_Del 13q14 (RB1)
□**C8389959**	FISH_Del 13q34
□**C8389923**	FISH_Del 20q12
□**C8389964**	FISH_Del 5q31 (EGR1)
□**C8389963**	FISH_Del 5q33-q34 (CSF1R)
□**C8389962**	FISH_Del 7q22/del 7q35
□**C8389925**	FISH_Del 9p21 (p16/CDKN2A)
□**C8389952**	FISH_Del/amp 17p13.1 (p53)
□**C8389970**	FISH_Del/t(11q23) MLL
□**C8392080**	FISH_E2A (TCF3)
□**C8389927**	FISH_IGH (14q32)
□**C8389960**	FISH_inv (16)(p13q22)
□**C8392059**	FISH_Monosomy 5
□**C8389862**	FISH_Chimerism, X/Y Analysis with FISH
□**C8392062**	FISH_Monosomy/Trisomy 7
□**C8389979**	FISH_8q24 MYC
□**C8392043**	FISH_PDGFRB

LG-OrT-FR-026	MOLECULAR GENETICS AND CYTOGENETICS TESTS REQUEST FORM

FISH Analyses	
□**C8392063**	FISH_t(1;19)(q23;p13) TCF3/PBX1
□**C8392279**	FISH_t(17;19) HLF/TCF3
□**C8389916**	FISH_t(14;16) IGH/MAF
□**C8389917**	FISH_t(17q21;?)/i(17q) RARA
□**C8389981**	FISH_t(4;14) IGH/FGFR3
□**C8391012**	FISH_t(12;21)(p13;q22) TEL/AML1
□**C8392152**	FISH_ Monosomy/Trisomy 10
□**C8392151**	FISH_ Monosomy/Trisomy 4
□**C8392410**	FISH_Monozomi 1p36
□**C8392363**	FISH_Centromeric Y Chromosome
□**C8392091**	FISH_Subtelomeric Probe Two Chromosomes
□**C8392090**	FISH_Subtelomeric Probe Single Chromosome
□**C8391011**	FISH_Subtelomeric Screening (All Chromosomes)
□**C8392339**	FISH_Alagille Syndrome 20p12 Microdeletion
□**C8390202**	FISH_DiGeorge 22q11.2 Microdeletion
□**C8390203**	FISH_Cri du chat 5p Microdeletion
□**C8390208**	FISH_Kallmann Xp22 Microdeletion
□**C8390205**	FISH_Miller-Dieker 17p13 Microdeletion
□**C8392064**	FISH_Rubinstein-Taybi 16p13 Microdeletion
□**C8390206**	FISH_Smith-Magenis 17p11 Microdeletion
□**C8390204**	FISH_Williams 7q11.23 Microdeletion
□**C8390207**	FISH_Wolf-Hirschhorn 4p16.3 Microdeletion
□**C8392058**	FISH_CHARGE Syndrome(8q12.2) Microdeletion
□**C8392060**	FISH_Prader-Willi/Angelman (SNRPN)
□**C8392065**	FISH_SHOX Microdeletions
□**C8392061**	FISH_SOTOS Syndrome (5q35.3)
□**C8392164**	FISH_Monosomy, Trisomy X
□**C8392718**	FISH_Trisomy 10
□**C8392081**	FISH_Trisomy 21
□**C8392076**	FISH_SRY Analysis
□**C8392071**	FISH_19q13/19p13
□**C8392014**	FISH_2p24.3 N-MYC
□**C8392074**	FISH_PTEN
□**C8392012**	FISH_ALK Rearrangements
□**C8392045**	FISH_EWSR1
□**C8399905**	FISH_ROS1
□**C8392070**	FISH_1p36/1q25
□**C8392499**	FISH_FIP1L1/CHIC2/PDGFRA Deletion, Rearrangement
□**C8392618**	FISH_3q26.2 EVI1 (MECOM) Rearragements
□**C8392290**	FISH_PAX5 Rearrangement
□**C8392750**	FISH_DiGeorge 22q11.2 (HIRA, TUPLE1) Microdeletion Syndrome
□**C8392751**	FISH_DiGeorge 22q11.2 (N25) Microdeletion Syndrome
□**C8392752**	FISH_DiGeorge 22q11.2 (TBX1) Microdeletion Syndrome
□**C8392296**	FISH_Seathre-Chotzen Syndrome 7q11.23 Microdeletion
□**C8392723**	FISH_FUS/ERG t(16;21)(p11;q22)
□**C8392753**	FISH_DiGeorge Microdeletion Syndrome Comprehensive Panel (10p14 + HIRA + TBX1 + N25)
□**C8392719**	FISH_Monosomy 3
□**C8392720**	FISH_MYB (6q23.3), D6Z1
□**C8392147**	Locus-Specific FISH Analysis
□**C8392654**	FISH_t(7;12) (q36;p13) MNX1/ETV6
□**C8392663**	FISH_RET_10q11_ Rearrangements

Thrombophilia Panels	
□**C8392661**	**Thrombophilia Panel;** (Factor II, Factor V Leiden, Factor XIII, MTHFR 677, MTHFR 1298, PAI, Factor V Cambridge)
□**C8389838**	**Cardiovascular Risk Panels;** (Factor V Leiden, Factor V (H1299R) (R2), Factor II G20210A), MTHFR 677T, MTHFR A1298C, PAI-1 4G/5G, ACE gene I/D, Factor XIII V34L, ß-Fibrinogen -455 G>A, GPIIIa L33P, Apo B, ApoE)

Molecular Genetic Tests	
□**C8392295**	5 Alpha Reductase Deficiency, SRD5A2 Gene Analysis
□**C8392265**	5-Fluorouracil Sensitivity (DPD Mutation Test)
□**C8389610**	Autosomal Dominant Periodic Fever (TRAPS) TNFR1 Gene Analysis

Molecular Genetic Tests	
□**C8389616**	Achondroplasia Disease, FGFR3 Gene Common Mutation Analysis
□**C8392159**	Achondroplasia Disease FGFR3 Gene Common Mutation Analysis, Prenatal
□**C8392142**	Achondroplasia Disease, FGFR3 Gene Analysis
□**C8392161**	Achondroplasia Disease FGFR3 Gene Analysis, Prenatal
□**C8392343**	Acute Intermittent Porphyria, HMBS Gene Analysis
□**C8389988**	Acute Myeloid Leukemia (AML) CEBPA Gene Analysis
□**C8389902**	Alpha 1-Antitrypsin Genotyping
□**C8392129**	Alport syndrome COL4A3, COL4A4, COL4A5 Gene Analyses
□**C8392149**	Alpha Thalassemia HBA1, HBA2 Gene Deletion Duplication Analyses
□**C8389815**	Alpha Thalassemia HBA1, HBA2 Gene Analysis
□**C8389842**	Angiotensin ACE ins/del (ID) Polymorphism Analysis
□**C8392174**	ATP1A3 Gene Analysis
□**C8389605**	Ankylosing Spondylitis, HLA Analysis (HLA B*27)
□**C8389837**	Apo B Gene Genotype Analysis
□**C8389834**	Apo E Gene Genotype Analysis
□**C8392433**	APC Gene Analysis
□**C8392095**	Ataxia Telangiectasia, ATM Gene Sequence Analysis
□**C8392359**	Bartter Syndrome Tip 4A, BSND Gene Analysis
□**C8392667**	BCL2 Gene Sequencing Analysis
□**C8389607**	Behçet's disease, HLA Analysis B5 (B*51 and B*52)
□**C8390110**	B-Raf (BRAF) p.V600E Mutation Analysis
□**C8389820**	Beta Thalassemia HBB Gene Analysis
□**C8392380**	Beta Thalassemia HBB Gene Deletion Duplication Analysis
□**C8389888**	Beta Thalassemia HBB Gene Analysis, Prenatal
□**C8389848**	Beta Fibrinogen FGB Gene Polymorphism Analysis
□**C8392398**	Biotinidase deficiency, BTD Sequence Analysis
□**C8392230**	BRCA1/BRCA2 Gene Deletion Duplication Analysis
□**C8392190**	BRCA1-BRCA2 Gene Analysis
□**C8389900**	CADASIL Disease NOTCH3 Gene Common Mutation Analysis
□**C8389247**	Canavan Disease ASPA Gene Analysis
□**C8392348**	CD40 Gene Analysis
□**C8389200**	Charcot Marie Tooth Type 1A PMP22 Deletion Duplication Analysis
□**C8389202**	Charcot Marie Tooth Type 1B MPZ Gene Analysis
□**C8389208**	Charcot Marie Tooth Type 1E PMP22 Gene Analysis
□**C8389211**	Charcot Marie Tooth X-Linked Dominant Type GJB1 Gene Analysis
□**C8392024**	Coeliac Disease, HLA Analysis (HLA-DQ2 and HLA-DQ8)
□**C8389861**	Chimerism, PCR-based STR Fragment Analysis
□**C8392030**	Chimerism, PCR-based STR Fragment Analysis, Preliminary
□**C8392360**	Chimerism, T Cell PCR-based STR Fragment Analysis
□**C8392361**	Chimerism, B Cell PCR-based STR Fragment Analysis
□**C8389125**	CysticFibrosis CFTR Gene Analysis
□**C8392216**	Cystic Fibrosis, CFTR Gene, Deletion Duplication Analysis
□**C8389191**	CysticFibrosis CFTR Gene Analysis, prenatal
□**C8392610**	Cystic Fibrosis Carrier Screening
□**C8392611**	Cystic Fibrosis Carrier Screening, Prenatal
□**C8389906**	Clonality B Cell Test
□**C8389907**	Clonality T Cell Test
□**C8392150**	Congenital Adrenal Hyperplasia CYP21A2 Gene Deletion Duplication Analysis
□**C8392033**	Congenital Adrenal Hyperplasia CYP21A2 Gene Analysis
□**C8392126**	Congenital Deafness Connexin 26 (GJB2) Gene Analysis
□**C8392140**	Congenital Neutropenia ELANE (ELA 2) Gene Analysis
□**C8392079**	Congenital Neutropenia Type 3 HAX1 Gene Analysis
□**C8392210**	CDAN1 Gene Analysis
□**C8392214**	Ceruloplasmin, CP Gene Analysis
□**C8392243**	Costello Syndrome, HRAS Gene Analysis
□**C8392266**	DNAAF2 Gene Analysis
□**C8392251**	Diabetes Mellitus Type 1, INS Gene Analysis

Molecular Genetic Tests		Molecular Genetic Tests	
□**C8389207**	Duchenne Muscular Dystrophy (DMD) Dystrophin Deletion Duplication Analysis	□**C8392325**	JAK3 Gene Analysis
□**C8389285**	Duchenne Muscular Dystrophy (DMD) Deletion Duplication Analysis, Prenatal	□**C8389501**	Leber's Optic Atrophy MTND1 Gene Mutation Analysis
□**C8392125**	Duchenne Muscular Dystrophy (DMD) Dystrophin Gene Analysis	□**C8392245**	Leptin Gene Analysis
□**C8392013**	E-CADHERIN CDH1 Gene Analysis	□**C8392349**	Lesch Nyhan Syndrome - HPRT1 Gene Analysis
□**C8390103**	EGFR Gene Common Mutation Analysis	□**C8392273**	MGMT Gene Analyses
□**C8392619**	ETFDH Gene Sequencing Analysis	□**C8392128**	Marfan Syndrome FBN1 Gene Analysis
□**C8392280**	Ethylmalonic Encephalopathy, ETHE1 Gene Analysis	□**C8392641**	Maple Syrup Urine Disease, Type IA, BCKDHA Gene Sequencing
□**C8392381**	EXT1 Gene Sequencing Analysis	□**C8389293**	Metachromatic Leukodystrophy ARSA Gene Analysis
□**C8392382**	EXT2 Gene Sequencing Analysis	□**C8392674**	MCL1 Gene Sequencing Analysis
□**C8392306**	Fabry Disease, GLA Gene Analysis	□**C8390108**	Microsatellite instability
□**C8389827**	Factor II (Prothrombin) Polymorphism Analysis	□**C8389845**	MTHFR Gene c.A1298C Polymorphism Analysis
□**C8392006**	Factor V H1299R Polymorphism Analysis	□**C8389841**	MTHFR Gene c.C677T Polymorphism Analysis
□**C8391007**	Factor V Cambridge Polymorphism Analysis	□**C8389829**	MTHFR Gene c.C677T and c.A1298C Polymorphism Analyses
□**C8389831**	Factor V_LeidenPolymorphism Analysis	□**C8392148**	Multiple Endocrine Neoplasia Type 1 MEN1 Gene Analysis
□**C8389993**	Factor XIII Polymorphism Analysis	□**C8390130**	Multiple Endocrine Neoplasia Type 2A RET Gene Sequence Analysis
□**C8392143**	Fanconi Anemia Deletion Duplication Analysis	□**C8392717**	Multidrug Resistance (MDR1), ABCB1 Gene C3435T Analysis
□**C8389909**	Familial Fructose Intolerance Aldolase B (ALDOB) Gene Analysis	□**C8399906**	Myeloproliferative Disorders CALR Gene Common Mutation Analysis
□**C8389282**	Familial Transthyretin Amyloidosis, TTR Gene Analysis	□**C8389989**	Myeloproliferative Leukemia Protein, MPL Gene Common Mutation Analysis
□**C8389600**	Familial Mediterranean Fever (FMF) MEFV Gene Analysis	□**C8389218**	Myotonic Dystrophy Type 1 DMPK Gene CTG Triplet Repeat Status Analysis
□**C8392093**	FGFR2 Gene Analysis	□**C8392000**	Neuronal Ceroid-Lipofuscinoses 1 (NCL Type1) Common Mutation Analysis
□**C8392645**	FLT3 Mutations Analysis (IDT and D835)	□**C8392001**	Neuronal Ceroid-Lipofuscinoses 2 (NCL Type2) Common Mutation Analysis
□**C8392493**	FXN Gene Sequence Analysis	□**C8392002**	Neuronal Ceroid-Lipofuscinoses 3 (NCL Type3) Common Mutation Analysis
□**C8389206**	Fragile X FMR1 Gene CGG Triplet Repeat Status Analysis, Postnatal	□**C8392092**	Noonan Syndrome PTPN11 Gene Analysis
□**C8389210**	Friedreich's Ataxia FXN Gene GAA Triplet Repeat Status Analysis	□**C8392162**	Noonan Syndrome PTPN11 Gene Analysis, Prenatal
□**C8389250**	Fructose 1,6 Bisphosphatase Deficiency FBP1 Gene Analysis	□**C8392145**	Neurofibromatosis Type 1 NF1 Gene Deletion Duplication Analysis
□**C8392347**	G6PC3 Gene Analysis	□**C8389219**	Neurofibromatosis Type 1 NF1 Gene Analysis
□**C8389730**	Galactosemia GALT Gene Common Mutation Analysis	□**C8392173**	Neurofibromatosis Type 2 NF2 Gene Analysis
□**C8389701**	Gaucher Disease GBA Gene Analysis	□**C8392324**	Neurofibromatosis Type 2 NF2 Gene Deletion Duplication Analysis
□**C8392437**	GATA2 Gene Analysis	□**C8392358**	Neutrophil Specific Antigen 1, PRV-1 (CD 177) Gene Analysis
□**C8392004**	GATA1 Gene Common Mutation Analysis	□**C8392338**	NPHP1 Gene Deletion Duplication Analysis
□**C8392239**	Galactokinase Deficiency, GALK1 Gene Analysis	□**C8390123**	Nucleophosmin (NPM1) Gene Exon 12 Mutation Analysis
□**C8392240**	GJB6 Gene Analysis	□**C8392213**	NRAS Exon 2, 3, 4 Gene Mutation Analysis
□**C8392135**	Genetic Arrhythmia Panel	□**C8392675**	NRAS Gene Sequencing Analysis
□**C8392287**	Gilbert Syndrome, UGT1A1 Gene Analysis	□C8392716	OTC Gene Sequencing Analysis
□**C8392268**	Glucose 6 Phosphate Dehydrogenase Deficiency, G6PD Gene Analysis	□**C8389614**	Osteogenesis Imperfecta COL1A1 Gene c.G1245T Polymorphism Analysis
□**C8389844**	Fetal Neonatal Alloimmün Trombositopeni (HPA-1a)	□**C8389259**	Oligodendroglioma 1p/19q Deletions
□**C8392040**	IDH1 and IDH2 Genes Common Mutation Analysis	□**C8392291**	P53 Gene Common Mutation (Exon 5, 6, 7, 8, 9) Analysis
□**C8392099**	Gonadal Cell Freezing Preperation (STR Analysis)	□**C8389839**	PAI1 Gene -675 4G/5G Polymorphism Analysis
□**C8392352**	HADHA Gene Analysis	□**C8392146**	Pelizaeus Merzbacher PLP 1 Gene Deletion Duplication
□**C8389836**	Hemochromatosis HFE Gene Common Mutation Analysis	□**C8392344**	PAX3 Gene Analysis
□**C8392353**	Hereditary Fructose Intolerance Aldolase B (ALDOB) Deletion/Duplication Analysis	□**C8392345**	Perforin 1, PRF1 Gene Analysis
□**C8392288**	HMX1 Gene Analysis	□**C8390122**	PDGFRA Gene Exon 12, 14, 18 Mutation Analysis
□**C8389216**	Huntington's Disease Huntingtin (IT15) CAG Triplet Repeat Status Analysis	□**C8389214**	Prader-Willi-Angelman Syndrome SNRPN Gene Methylation Pattern Analysis
□**C8392177**	Hypophosphatasia, ALPL Gene Analysis	□**C8392236**	Primary Hyperoxaluria Types 1, AGXT Gene Analysis
□**C8392272**	Hypoplastic Left Heart Syndrome Panel (NKX2-5, GJA1)	□**C8389703**	Phenylketonuria PAH Gene Analysis
□**C8392158**	iAMP 21 Amplification Analysis	□**C8392356**	Phenylketonuria PAH Gene Deletion/Duplication Analysis
□**C8392366**	IL21 Gene Analysis	□**C8392178**	PITX1 Gene Analysis
□**C8392326**	IL2RG (IL2 Receptor Gamma) Gene Analysis	□**C8392226**	PFIC 1, ATP8B1 Gene Analysis
□**C8392020**	Interleukin 28B (Interferon lambda 3) IFNL3 Gene Analysis	□**C8392227**	PFIC 2, ABCB11 Gene Analysis
□**C8389945**	Imatinib (Gleevec) Resistance ABL1 Gene Mutation Analysis	□**C8392228**	PFIC 3, ABCB4 Gene Analysis
□**C8392261**	Kaposi Sarcoma, IL6 Gene Analysis	□**C8392235**	PABPN1 Gene Analysis
□**C8390117**	KIT (Mast cell growth factor receptor) Gene D816V Mutation Analysis	□**C8392258**	PNPLA6 Gene Analysis
□**C8389901**	KIT (Mast cell growth factor receptor) Gene Exon 9, 11, 13, 17 Mutation Analyses		
□**C8390112**	KRAS Exon 2, 3, 4 Gene Mutation Analysis		
□**C8392498**	KRT5 Gene Sequence Analysis		
□**C8389939**	JAK2 Gene V617F Mutation Analysis		
□**C8389974**	JAK2 Gene Mutation Analysis (Exon 12)		

LG-OrT-FR-026	MOLECULAR GENETICS AND CYTOGENETICS TESTS REQUEST FORM

Molecular Genetic Tests	
□**C8392330**	PRSS1 Gene Analysis
□**C8392354**	PTEN Deletion/Duplication Analysis
□**C8392292**	Pycnodysostosis Syndrome, CTSK Gene Analysis
□**C8392332**	Porphyria Cutanea Tarda, UROD Gene Analysis
□**C8389222**	Rett Syndrome MECP2 Gene Analysis
□**C8392355**	Rett Syndrome MECP2 Gene Deletion/Duplication Analysis
□**C8390785**	Rapid Aneuploidy Analysis (X, Y, 13, 18, 21)
□**C8392175**	RPE65 Gene Analysis
□**C8392715**	SERPING1 Gene Sequencing Analysis
□**C8389810**	Sickle Cell Anemia HBB Gene p.E7V Mutation Analysis Postnatal
□**C8389890**	Sickle Cell Anemia HBB Gene p.E7V Mutation Analysis Prenatal
□**C8392293**	Smith Lemli Opitz Syndrome, DHCR7 Gene Analysis
□**C8392252**	Somatic BRCA1-BRCA2 Gene Analysis
□**C8389287**	Spinal Muscular Atrophy (SMA) Deletion/Duplication Analysis Prenatal
□**C8389217**	Spinal Muscular Atrophy (SMA) Deletion/Duplication Analysis Postnatal
□**C8389231**	Spinocerebellar Ataxia (SCA) Type 1 ATXN1 CAG Triplet Repeat Status Analysis
□**C8389232**	Spinocerebellar Ataxia (SCA) Type 2 ATXN2 CAG Triplet Repeat Status Analysis
□**C8389233**	Spinocerebellar Ataxia (SCA) Type 3 ATXN3 CAG Triplet Repeat Status Analysis
□**C8389634**	Spinocerebellar Ataxia (SCA) Type 6 CACNA1A CAG Triplet Repeat Status Analysis
□**C8389635**	Spinocerebellar Ataxia (SCA) Type 7 ATXN7 CAG Triplet Repeat Status Analysis
□**C8389230**	Spinocerebellar Ataxia (SCA) Type 1,2,3,6,7 Triplet Repeat Status Analysis
□**C8392331**	SPINK1 Gene Analysis
□**C8392211**	SEC23B Gene Analysis
□**C8392242**	SH2D1A Gene Analysis
□**C8392097**	Targeted Mutation Analysis (Single Mutation)
□**C8392166**	Targeted Mutation Analysis, Prenatal (Single Mutation)
□**C8392491**	Targeted Mutations Analysis (Two Mutations)
□**C8392492**	Targeted Mutations Analysis (Tree Mutations)
□**C8392267**	Thyroxine-binding Globulin Deficiency, TBG (SERPINA7) Gene Analysis
□**C8392336**	Thyroid Hormone Resistance THRB Gene Analysis
□**C8389990**	TPMT Genotyping
□**C8392357**	TPO Gene Analysis
□**C8392215**	TSC2 Gene, Deletion Duplication Analysis
□**C8392289**	TSH Receptor Gene (TSHR) Analysis
□**C8392659**	TWIST1 Gene Analysis
□**C8389410**	Y Chromosome Microdeletions Screening
□**C8392016**	Von Hippel Lindau VHL Gene Analysis
□**C8389840**	Warfarin Resistance VKORC1 Polymorphism Analysis
□**C8389843**	Warfarin Resistance CYP2C9 Gene Polymorphism Analysis
□**C8389835**	Wiskott-Aldrich Syndrome WAS Gene Analysis
□**C8392036**	Wilm's Tumor_1p/16q deletions
□**C8392003**	Wilson's Disease ATP7B Gene Common Mutation Analysis
□**C8392294**	X-linked ALD (ABCD1) Gene Analysis

Fusion Transcripts	
□**C8389931**	t(8;21) AML1/ETO Fusion Transcripts
□**C8389938**	inv 16(p13;q22) CBFB-MYH11 Fusion Transcripts
□**C8389943**	t(4;11)(q21;q23) MLL-AF4 Fusion Transcripts
□**C8389937**	t(15;17) PML/RARA Fusion Transcripts
□**C8391013**	t(1;19) E2A-PBX Fusion Transcripts
□**C8389955**	t(12;21) TEL/AML1 Fusion Transcripts
□**C8389935**	t(9;22) BCR/ABL Fusion Transcript
□**C8392694**	t(9;22) BCR/ABL p230 Fusion Transcript

Carrier Screening Test	
□**C8392614**	Carrier Screening (SMA, Fragile X and Cystic Fibrosis 50 Mutations)
□**C8392461**	Carrier Panel (27 Genes)
□**C8392462**	Carrier Panel (274 Genes)
□**C8392439**	Carrier Screening Panels (330 genes, Including; Fragile X, SMA, Congenital Adrenal Hyperplasia)
□**C8392670**	WES Carrier Plus_ SMA, DMD, Fragile X*
□**C8392677**	WES Carrier Plus_with Partner_SMA, DMD, Fragile X*
* **"Exome/Genome Informed Consent Form"** must be filled for these test.	

Exome Tests -Prenatal/Postnatal	
□**C8392406**	Exom Sequencing (WES, Single)*
□**C8392616**	Exom Sequencing (WES, Single), with CNV*
□**C8392487**	Exome Sequencing (WES, Trio)*
□**C8392673**	Exome Sequencing (WES, Trio) with CNV*
□**C8392453**	Exom Sequencing (WES, Single), Prenatal*
□**C8392467**	Prenatal Trio Exome*
***"Exome/Genome Informed Consent Form"** must be filled for these tests	

Hemato-Oncology Panels	
□**C8392627**	**AML Cytogenetics-FISH-Molecular Panels;** FISH_AML Panels, 141 Gene Myeloid Panels, Chromosome analysis, FLT3, NPM1, CEBPA, IDH, MDR-1
□**C8392630**	**MPN Panels (Moleculer+FISH);** CALR, MLP, JAK2 (Ekzon 12 and V617F), CSF3R, FISH MPN panels
□**C8392628**	**AML Molecular Panels;** NPM1, CEBPA, FLT3
□**C8392609**	**MPN Screening Test;** CALR, MLP, JAK2 (Ekzon 12 and V617F), CSF3R
□**C8392623**	Myeloid NGS Panels
□**C8392455**	**MDS NGS Panel** (Cytogenetics and FISH_Del 5q)

Molecular Panel Tests	
□**C8392742**	Bardet-Biedl Syndrome Panel
□**C8392735**	Charcot-Marie-Tooth Disease Panel
□**C8392748**	Congenital Thrombocytopenia Panel
□**C8392747**	Congenital Myasthenia Panel
□**C8392711**	Congenital Myopathy and Muscular Dystrophy Panel
□**C8392705**	Cytopenia and Congenital Anemia Panel
□**C8392709**	Dystonia Panel
□**C8392743**	Epidermolysis Bullosa Panel
□**C8392739**	Epilepsy Panel
□**C8392745**	Fanconi Anemia Panel
□**C8392133**	Familial Hypercholesterolemia (ADH) Panel
□**C8392132**	Familial Hypertrophic Cardiomyopathy Panel
□**C8392708**	Female infertility Panel
□**C8392746**	Glycogen Storage Diseases Panel
□**C8392741**	Heavy Combined Immunodeficiency Panel
□**C8390107**	Hereditary Cancer Panel (BRCA1-BRCA2 and 24 Gene Analysis)
□**C8392712**	Hereditary Neuropathy Panel
□**C8392736**	Hereditary Spastic Paraplegia Panel
□**C8392131**	HNPCC (Hereditary Nonpolyposis Colorectal Cancer) Panel
□**C8392707**	Male Infertility Panel
□**C8392134**	MODY Panel
□**C8392737**	Muscular Dystrophy Panel
□**C8392710**	Neurodegenerative Disease (Adult Onset) Panel
□**C8392703**	Non-syndromic Hearing Loss Panel
□**C8392713**	Oocyte Maturation Defect Panel
□**C8392744**	Osteogenesis Imperfecta Panel
□**C8392313**	Paraganglioma Panels; SDHB, SDHC, SDHD, VHL Gene Analysis
□**C8392706**	Periodic Fever Panel
□**C8392704**	Primary Immunodeficiency Panel
□**C8392740**	Primary Ciliary Dyskinesia Panel
□**C8392749**	Rasopathy Panel
□**C8392668**	Retinitis Pigmentosa Panels
□**C8392738**	Spinocerebellar Ataxia Panel