



SCOPE OF ACCREDITATION TO ISO 15189:2022

PREVENTIONGENETICS, LLC
 3800 S Business Park Ave.
 Marshfield, WI 54449
 Jessica Kayhart Phone: 715-200-6195

CLINICAL

Valid To: May 31, 2026

Certificate Number: 3950.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of testing on human samples, including **Blood (B), DNA (D), Cell Cultures (C), Tissue (T), Saliva (Sa), Direct Amniotic Fluid or Chorionic Villus Sampling (P), and Semen (Se):**

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology			
		167 Gene Custom Healthy Screen with CNV Detection	NextGen sequencing	B, D, T, C, Sa
		3-Methylcrotonyl-CoA Carboxylase Deficiency Panel	NextGen sequencing	B, D, T, C, Sa
		A2ML1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AARS1/AARS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AARS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCA12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCA3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCA4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCB11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCB4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCC6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCC8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCC9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCD3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCD4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCG5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABCG8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ABL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACADM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACADS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACADVL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACAT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

Specialty	Sub Specialty	Test/Analyte	Method(s)	Matrix(ces)
Pathology				
	Molecular Pathology (cont.)			
		Achromatopsia (ACHM) Panel	NextGen sequencing	B, D, T, C, Sa
		ACO2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACOX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACP5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACSF3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACSL4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACTA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACTA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACTB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACTC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACTG1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACTN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACTN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACTN4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Acute/Neurovisceral Porphyria Panel	NextGen sequencing	B, D, T, C, Sa
		ACVR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACVR2B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACVRL1/ALK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ACY1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ADA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ADAM9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Adams-Oliver Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		ADAMTS13 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ADAMTSL2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ADAMTSL4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ADAT3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ADCY10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ADCY6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ADGRG1/GPR56 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ADGRG6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ADGRV1/GPR98 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ADNP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ADSL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AFF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AFF4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AGA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Agammaglobulinemia Panel	NextGen sequencing	B, D, T, C, Sa
		AGK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AGL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Agnathia-Otocephaly Complex Panel	NextGen sequencing	B, D, T, C, Sa
		AGO1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AGPAT2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AGPS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AGRN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AGT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AGTR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		AGXT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AHCY Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AHDC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AHI1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Aicardi-Goutières Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		AICDA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AIFM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AIP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AIPL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AIRE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AKAP9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AKR1D1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AKT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AKT3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Alagille Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		ALAS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALDH18A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALDH3A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALDH5A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALDH6A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALDH7A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALDOB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALG11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALG12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALG13 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALG2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALG3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALG6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALG8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALMS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALOX12B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALOXE3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Alpha Thalassemia Deletion/Duplication and Constant Spring Panel	MLPA	B, D, C
		Alpha Thalassemia Panel	Sanger sequencing	B, D, T, C, Sa, Se
		ALPL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Alport Syndrome (AS) Panel	NextGen sequencing	B, D, T, C, Sa
		ALS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALX3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ALX4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Alzheimer's Disease, Familial Panel	NextGen sequencing	B, D, T, C, Sa
		Alzheimer's Disease, Familial, Plus APOE Panel	NextGen sequencing	B, D, T, C, Sa
		Ambiguous Genitalia Panel	NextGen sequencing	B, D, T, C, Sa
		Amelogenesis Imperfecta Panel	NextGen sequencing	B, D, T, C, Sa

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		AMELX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AMPD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AMPD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AMT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Amyotrophic Lateral Sclerosis and Frontotemporal Dementia Panel	NextGen sequencing	B, D, T, C, Sa
		Amyotrophic Lateral Sclerosis Panel	NextGen sequencing	B, D, T, C, Sa
		ANG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Angelman Syndrome by MS-MLPA	MLPA	B, D, C
		ANK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANK2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANKH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANKK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANKRD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANKRD11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANKRD26 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANKS6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANLN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANO10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANO3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANO5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANO6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANOS1/KAL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Anterior Segment Dysgenesis Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		ANTXR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANTXR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ANXA11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AP1S2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AP2S1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AP3B1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AP4B1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AP4E1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AP4M1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AP4S1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AP5Z1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		APC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		APOA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		APOA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		APOA4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		APOB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		APP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		APPL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		APTX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AQP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

Specialty	Sub Specialty	Test/Analyte	Method(s)	Matrix(ces)
Pathology				
	Molecular Pathology (cont.)			
		ARFGEF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARG1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARHGAP24 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARHGAP29 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARHGAP31 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARHGDI A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARHGEF28 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARHGEF9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARID1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARID1B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARL13B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARL6/BBS3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARL6IP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARMC5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Arrhythmogenic Right Ventricular Cardiomyopathy/Dysplasia Panel	NextGen sequencing	B, D, T, C, Sa
		ARSA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARSB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARSL/ARSE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ARX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ASAH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ASCL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ASH1L Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ASL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ASPA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ASPM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ASS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ASXL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Ataxia with Oculomotor Apraxia Panel	NextGen sequencing	B, D, T, C, Sa
		Ataxia/Episodic Ataxia Disorders	NextGen sequencing	B, D, T, C, Sa
		ATF6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATIC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATN1 CAG Repeat Expansion	Repeat Expansion	B, D, T, C, Sa
		ATN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATP13A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATP1A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATP1A3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATP2B4/PMCA4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATP5F1A/ATP5A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATP5F1E /ATP5EGene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATP6AP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATP6V0A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATP6V0A4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATP6V1B1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATP7A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		ATP7B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATP8B1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATPAF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATRX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ATXN2 CAG Repeat Expansion	Repeat Expansion	B, D, T, C, Sa
		ATXN3 CAG Repeat Expansion	Repeat Expansion	B, D, T, C, Sa
		AUH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AURKC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Autism Spectrum Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		Autoimmune Lymphoproliferative Syndrome/ALPS Panel	NextGen sequencing	B, D, T, C, Sa
		Autosomal Dominant and Recessive Polycystic Kidney Disease (ADPKD and ARPKD) Panel	NextGen sequencing	B, D, T, C, Sa
		Autosomal Dominant Polycystic Kidney Disease (ADPKD) Panel	NextGen sequencing	B, D, T, C, Sa
		Autosomal Dominant Polycystic Kidney Disease via MLPA of PKD1	MLPA	B, D, C
		Autosomal Dominant Retinitis Pigmentosa Panel	NextGen sequencing	B, D, T, C, Sa
		Autosomal Recessive Polycystic Kidney Disease (ARPKD) Panel	NextGen sequencing	B, D, T, C, Sa
		Autosomal Recessive Renal Tubular Dysgenesis (RTD) Panel	NextGen sequencing	B, D, T, C, Sa
		Autosomal Recessive Retinitis Pigmentosa Panel	NextGen sequencing	B, D, T, C, Sa
		AUTS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AVIL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AVP Gene	Sanger sequencing	B, D, T, C, Sa, Se
		AVPR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Axenfeld-Rieger Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		AXIN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		AXL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		B3GALNT2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		B3GALTL/B3GLCT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		B3GNT1/B4GAT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		B4GALNT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		B9D1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BAAT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BAG3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BAP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BARD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Bardet-Biedl Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Bartter Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		BBS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		BBS10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BBS12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BBS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BBS4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BBS5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BBS7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BBS9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BCHE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BCKDHA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BCKDHB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BCKDK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BCL11A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BCOR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BCORL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BCS1L Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BDNF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Bernard-Soulier Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		BEST1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BFSP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BHLHA9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BICD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BIN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Bleeding Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		BLK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BLM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BLOC1S3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BLOC1S6/PLDN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BLTP1/KIAA1109 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BMP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BMP15 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BMP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BMPER Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BMPR1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BMPR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Bone Fragility and Fracture Panel	NextGen sequencing	B, D, T, C, Sa
		BPNT2/IMPAD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BRAF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Brain Cancer Panel	NextGen sequencing	B, D, T, C, Sa
		Brain Malformation Panel	NextGen sequencing	B, D, T, C, Sa
		Branchiootorenal Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		BRCA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BRCA2/FANCD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Breast Cancer – Expanded Risk Panel	NextGen sequencing	B, D, T, C, Sa
		Breast Cancer – High Risk Panel	NextGen sequencing	B, D, T, C, Sa
		Breast Cancer – High/Moderate Risk Panel	NextGen sequencing	B, D, T, C, Sa
		BRIP1/FANCD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		Brittle Cornea Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Brown-Vialetto-van Laere Syndrome and Fazio-Londe Disease Panel	NextGen sequencing	B, D, T, C, Sa
		Brugada Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		BRWD3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BSCL2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BSND Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BTD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BTK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		BUB1B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		C12orf57 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		C19orf12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		C2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		C3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		C9orf72 Gene Hexanucleotide Repeat Expansion	Repeat Expansion	B, D, T, C, Sa
		CA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CA4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CABP4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CACNA1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CACNA1C Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CACNA1D Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CACNA1F Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CACNA1H Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CACNA1S Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CACNA2D1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CACNA2D3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CACNA2D4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CACNB2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CACNB4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CADASIL and CARASIL Panel	NextGen sequencing	B, D, T, C, Sa
		CALM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CALM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CALM3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Cancer Panel	NextGen sequencing	B, D, T, C, Sa
		CAPN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CAPN3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CAPN5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CARD14 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Cardio-Facio-Cutaneous (CFC) Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		CASK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CASQ2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CASR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Catecholaminergic Polymorphic Ventricular Tachycardia Panel	NextGen sequencing	B, D, T, C, Sa
		CATSPER1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		CAV1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CAV3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CAVIN1/PTRF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CBL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CBS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CC2D1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CC2D2A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CCBE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CCDC103 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CCDC141 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CCDC39 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CCDC40 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CCDC50 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CCDC65 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CCDC78 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CCDC8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CCDC88C Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CCM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CCND2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CCNO Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CCT5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CD2AP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CD320 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CD36 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CD40LG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CD46 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDAN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDC6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDC73 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDH15 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDH23 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDHR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDIN1/C15orf41 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDK4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDK5RAP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDKL5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDKN1B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDKN1C Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDKN2A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDON Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDSN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CDT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CEACAM16 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CEBPA Gene	Sanger sequencing	B, D, T, C, Sa, Se
		CEL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CENPJ Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CEP152 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		CEP164 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CEP290 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CEP41 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CEP57 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Cerebral Cavernous Malformations Panel	NextGen sequencing	B, D, T, C, Sa
		Cerebral Cavernous Malformations via the CCM2 Gene, Exons 2-10 Deletion	Targeted PCR Deletion Test	B, D, T, C, Sa
		Cerebral Small Vessel Disease Panel	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CERKL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CFAP298/C21orf59 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CFAP300 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CFAP410 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CFAP418/C8orf37 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CFB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CFH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CFI Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CFL2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CFTR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHAMP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Charcot-Marie-Tooth – Axonal Neuropathy Panel	NextGen sequencing	B, D, T, C, Sa
		Charcot-Marie-Tooth – Comprehensive Panel	NextGen sequencing	B, D, T, C, Sa
		Charcot-Marie-Tooth – Demyelinating Neuropathy Panel	NextGen sequencing	B, D, T, C, Sa
		CHARGE and Kallmann Syndromes Panel	NextGen sequencing	B, D, T, C, Sa
		CHAT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHD7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHD8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHEK2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHKB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHMP1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHMP2B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHMP4B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Cholestasis Panel	NextGen sequencing	B, D, T, C, Sa
		CHRDL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHRNA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHRNA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHRNA4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHRN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		CHRN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHRN3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHRN4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHRN5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Chromosomal Instability Syndromes Panel	NextGen sequencing	B, D, T, C, Sa
		Chronic Granulomatous Disease Panel	NextGen sequencing	B, D, T, C, Sa
		Chronic Pancreatitis Panel	NextGen sequencing	B, D, T, C, Sa
		Chronic Progressive External Ophthalmoplegia (CPEO/PEO) Panel	NextGen sequencing	B, D, T, C, Sa
		Chronic/Cutaneous Porphyria Panel	NextGen sequencing	B, D, T, C, Sa
		CHST14 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHST3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHST6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CHSY1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CIB2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Ciliopathy Panel	NextGen sequencing	B, D, T, C, Sa
		CISD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLCN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLCN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLCN4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLCN5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLCN7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLDN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLDN14 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLDN16 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLDN19 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Cleft Lip/Cleft Palate Panel	NextGen sequencing	B, D, T, C, Sa
		CLN3 c.461-280 677+382 Deletion	Targeted PCR Deletion Test	B, D, T, C, Sa
		CLN3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLN5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLN6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLN8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLPP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CLRN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CNGA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CNGA3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CNGB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CNGB3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CNNM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CNNM4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CNTN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CNTN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CNTNAP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CNTNAP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		COA3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COA5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COA6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COA8/APOPT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Coagulation Factor Deficiency Panel	NextGen sequencing	B, D, T, C, Sa
		COASY Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COCH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Coenzyme Q10 Ubiquinone Deficiency Panel	NextGen sequencing	B, D, T, C, Sa
		Coffin-Siris Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		COG4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL10A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL11A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL11A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL12A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL17A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL18A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL1A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL1A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL2A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL3A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL4A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL4A3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL4A4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL4A5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL4A6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL5A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL5A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL6A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL6A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL6A3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL7A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL9A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL9A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COL9A3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Colorectal Cancer Panel	NextGen sequencing	B, D, T, C, Sa
		COLQ Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Combined Oxidative Phosphorylation Deficiency Panel	NextGen sequencing	B, D, T, C, Sa
		Combined Pituitary Hormone Deficiency (CPHD) Panel	NextGen sequencing	B, D, T, C, Sa
		Common Hereditary Cancer Screening Panel	NextGen sequencing	B, D, T, C, Sa
		Common Variable Immune Deficiency (CVID) Panel	NextGen sequencing	B, D, T, C, Sa
		COMP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		Complex Hereditary Spastic Paraplegia Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Brain Malformation Sequencing Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Cardiac Arrhythmia Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Cardiology Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Cataracts Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Congenital Heart Disease Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Epilepsy and Seizure Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Inherited Kidney Diseases Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Inherited Metabolic Disorders and Mitochondrial Disorders (Nuclear Genes only) Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Inherited Retinal Dystrophies (includes RPGR ORF15) Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Monogenic Obesity Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Movement Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Neuromuscular Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Neuropathy Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Ocular Disorders (includes RPGR ORF15) Panel	NextGen sequencing	B, D, T, C, Sa
		Comprehensive Vitreoretinopathy Panel	NextGen sequencing	B, D, T, C, Sa
		Cone-Rod Dystrophy Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Abnormalities of the Kidney and Urinary Tract (CAKUT) Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Adrenal Hyperplasia (CAH) Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Anomalies of the Gastrointestinal Tract Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Cataracts Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Central Hypoventilation Syndrome (CCHS) Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Diaphragmatic Hernia Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Diarrhea and Enteropathies Panel	NextGen sequencing	B, D, T, C, Sa

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		Congenital Disorders of Glycosylation (CDG) Panel (Types Ia, Ib, and Ic)	NextGen sequencing	B, D, T, C, Sa
		Congenital Disorders of Glycosylation (CDG) Panel (Types Id, Ie, If, Ig, Ih, Ii)	NextGen sequencing	B, D, T, C, Sa
		Congenital Disorders of Glycosylation Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Dyserythropoietic Anemia Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Fibrinogen Deficiency Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Generalized Lipodystrophy (CGL) Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Hyperinsulinism Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Hypothyroidism and Thyroid Hormone Resistance Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Ichthyosis and Related Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Limb Malformation Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Muscular Dystrophy Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Myasthenic Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Myopathy Panel	NextGen sequencing	B, D, T, C, Sa
		Congenital Stationary Night Blindness Panel	NextGen sequencing	B, D, T, C, Sa
		Connective Tissue Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		COQ2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COQ4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COQ6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COQ8A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COQ8B/ADCK4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COQ9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Corneal Dystrophies Panel	NextGen sequencing	B, D, T, C, Sa
		Cornelia de Lange Syndrome and Cornelia de Lange Syndrome-Related Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		Cornelia de Lange Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		COX10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COX14 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COX15 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COX20 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COX6A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		COX6B1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CPA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CPA6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		CPAMD8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CPLANE1/C5orf42 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CPOX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CPS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CPT1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CPT1C Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CPT2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Craniosynostosis and Related Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		CRB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRBN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CREBBP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRIPTO/TDGF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRLF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRPPA/ISPD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRTAP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRYAA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRYAB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRYBA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRYBA4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRYBB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRYBB2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRYBB3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRYGB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRYGC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CRYM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CSF1R Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CSF3R Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CSNK1D Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CSRP3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CST3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CSTB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CTC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CTCF	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CTDP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CTH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CTNNB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CTNND2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CTNS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CTNS Gene, 57-kb Deletion	Targeted PCR Deletion Test	B, D, T, C, Sa
		CTRC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CTSA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CTSC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CTSD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CTSF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CUL3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CUL4B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		CUL7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Custom Panel	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CXCR4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYB5R3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYBA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYBB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYCS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYLD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYP11B1 Gene	Sanger sequencing	B, D, T, C, Sa, Se
		CYP17A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYP19A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYP1B1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYP21A2 Gene	Sanger sequencing	B, D, T, C, Sa, Se
		CYP27A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYP2B6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYP2U1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYP4F22 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYP4V2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		CYP7B1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Cystinuria Panel	NextGen sequencing	B, D, T, C, Sa
		D2HGDH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DAG1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DBT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DCAF17 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DCHS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DCLRE1C/ARTEMIS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DCTN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DCX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DDB2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DDC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DDHD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DDHD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DDR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DDX3X Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DDX41 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DEAF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Dementia Panel	NextGen sequencing	B, D, T, C, Sa
		Dent Disease Panel	NextGen sequencing	B, D, T, C, Sa
		DEPDC5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DES Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DGKE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DGUOK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DHCR7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DHDDS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DHH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DHODH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DHTKD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		DIABLO Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Diamond-Blackfan Anemia Panel	NextGen sequencing	B, D, T, C, Sa
		DIAPH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DICER1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Differences of Sex Development (DSD) and Infertility Panel	NextGen sequencing	B, D, T, C, Sa
		Differences of Sex Development (DSD) Panel	NextGen sequencing	B, D, T, C, Sa
		Dilated Cardiomyopathy Panel	NextGen sequencing	B, D, T, C, Sa
		DIS3L2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Disorders of Copper Metabolism Panel	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Disorders of Fatty Acid Oxidation Panel	NextGen sequencing	B, D, T, C, Sa
		Disorders of Folate Metabolism and Transport Panel	NextGen sequencing	B, D, T, C, Sa
		Disorders Related to Metabolism of Cobalamin, Folate and Homocysteine Panel	NextGen sequencing	B, D, T, C, Sa
		DISP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Distal Arthrogryposis Panel	NextGen sequencing	B, D, T, C, Sa
		Distal Hereditary Motor Neuropathy Panel	NextGen sequencing	B, D, T, C, Sa
		Distal Myopathy Panel	NextGen sequencing	B, D, T, C, Sa
		Distal Renal Tubular Acidosis Panel	NextGen sequencing	B, D, T, C, Sa
		DKC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DLAT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DLD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DLG3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DLL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DLL3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DLX3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DMD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DMGDH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAAF1/LRRC50 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAAF11/LRRC6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAAF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAAF3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAAF5/HEATR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAAF6/PIH1D3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAH11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAH5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAH8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAI1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAI2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		DNAJB11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAJB13 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAJB6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAJC12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAJC5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAJC6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNAL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNM1L Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNMT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DNMT3A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DOCK6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DOCK8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DOK7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DPAGT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DPM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DPM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DPM3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DPY19L2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DPYD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DPYS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DRAM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DRC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DSC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DSCAM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DSG2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DSP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DSPP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DSTYK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DTNA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DTNBP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DUOX2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DUOXA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DYNC1H1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DYNC2H1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DYRK1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		DYSF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Dyskeratosis Congenita (DC) and Related Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		Dystonia Panel	NextGen sequencing	B, D, T, C, Sa
		Dystroglycan-Related Congenital Muscular Dystrophy Panel	NextGen sequencing	B, D, T, C, Sa
		DZIP1L Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Early Infantile Epileptic Encephalopathy Panel	NextGen sequencing	B, D, T, C, Sa
		Early-Onset High Myopia Panel	NextGen sequencing	B, D, T, C, Sa
		EBP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ECE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		ECEL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Ectodermal Dysplasia Panel	NextGen sequencing	B, D, T, C, Sa
		EDA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EDAR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EDARADD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EDN3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EDN3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EDNRB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EDNRB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EED Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EFEMP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EFEMP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EFHC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EFNB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EFTUD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EGF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EGFR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EGLN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EGR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Ehlers-Danlos Syndromes Panel	NextGen sequencing	B, D, T, C, Sa
		EHMT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EIF2AK3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EIF2B1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EIF2B2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EIF2B3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EIF2B4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EIF2B5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ELAC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ELANE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Elevated Levels of C5-hydroxyacylcarnitine (C5-OH) Panel	NextGen sequencing	B, D, T, C, Sa
		Ellis-van Creveld Syndrome (EVC) Panel	NextGen sequencing	B, D, T, C, Sa
		ELN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ELOVL4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ELP1/IKKBKAP Gene – Full Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ELP1/IKKBKAP Gene – Targeted Variants Analysis	Sanger sequencing	B, D, T, C, Sa, Se
		EMD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EMP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ENAM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ENG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ENPP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ENTPD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EP300 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EPB42 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EPCAM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		EPHX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Epidermolysis Bullosa and Related Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		Epilepsy and Seizure Panel	NextGen sequencing	B, D, T, C, Sa
		Episodic Ataxia Panel	NextGen sequencing	B, D, T, C, Sa
		Episodic Pain Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		EPM2A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EPOR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ERBB2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ERBB3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ERBB4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ERCC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ERCC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ERCC3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ERCC4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ERCC5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ERCC6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ERCC8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ERGIC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ERLIN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ERLIN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ESCO2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ESRRB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ETFA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ETFB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ETFDH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ETHE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ETV6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EVC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EVC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EXOSC3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EXT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EXT2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EYA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EYA4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EYS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		EZH2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		F10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		F11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		F12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		F13A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		F13B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		F2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		F5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		F7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		F8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		F9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FA2H Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		Facial Dysostosis Related Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		FAH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FAM111A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FAM111B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FAM126A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FAM161A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FAM20A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FAM83H Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Familial Atrial Fibrillation Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Familial Chylomicronemia Panel	NextGen sequencing	B, D, T, C, Sa
		Familial Hemiplegic Migraine and Alternating Hemiplegia of Childhood Panel	NextGen sequencing	B, D, T, C, Sa
		Familial Hemophagocytic Lymphohistiocytosis (FHL) Panel	NextGen sequencing	B, D, T, C, Sa
		Familial Hemophagocytic Lymphohistiocytosis-Type 3 (FHL3) via the UNC13D Inversion	Targeted PCR Deletion Test	B, D, T, C, Sa
		Familial Hypercholesterolemia Panel	NextGen sequencing	B, D, T, C, Sa
		Familial Hypocalciuric Hypercalcemia (FHH) Panel	NextGen sequencing	B, D, T, C, Sa
		Familial Partial Lipodystrophy (FPLD) Panel	NextGen sequencing	B, D, T, C, Sa
		Familial Thoracic Aortic Aneurysm and Dissection (TAAD) Panel	NextGen sequencing	B, D, T, C, Sa
		FAN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FANCA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FANCB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FANCC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FANCD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FANCE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FANCF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FANCG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FANCI Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FANCL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FANCM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Fanconi Anemia Panel	NextGen sequencing	B, D, T, C, Sa
		FARS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FAS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FASTKD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FBLN5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FBN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FBN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FBP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FBXL4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FBXO28 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		FBXO7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FBXW7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FECH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Female Infertility Panel	NextGen sequencing	B, D, T, C, Sa
		FERMT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Fetal Akinesia Deformation Sequence/Lethal Multiple Pterygium Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		FEZF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FGA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FGB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FGD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FGD4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FGF10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FGF17 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FGF20 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FGF3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FGF8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FGFR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FGFR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FGFR3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FGFR3 Gene	Sanger sequencing	B, D, T, C, Sa, Se
		FGG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FHL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FIG4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FIGLA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FKBP10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FKBP14 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FKRP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FKTN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FKTN Insertion (Japanese Founder Mutation)	Sanger sequencing	B, D, C, T, Sa, Se
		FLCN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Flecked Retina Disorder Panel	NextGen sequencing	B, D, T, C, Sa
		FLI1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FLNA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FLNB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FLNC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FLT3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FLT4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FLVCR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FLVCR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FMO3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FMR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Focused Inherited Retinal Disorders Panel	NextGen sequencing	B, D, T, C, Sa

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		FOLR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FOXC1 Gene	Sanger sequencing	B, D, T, C, Sa, Se
		FOXC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FOXE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FOXE3 Gene	Sanger sequencing	B, D, T, C, Sa, Se
		FOXG1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FOXH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FOXI1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FOXL2 Gene	Sanger sequencing	B, D, T, C, Sa, Se
		FOXP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FOXP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FOXP3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Fragile X Syndrome via the FMR1 CGG Repeat Expansion	Repeat Expansion	B, D, T, C, Sa
		FRAS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Fraser Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		FREM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FRMD7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FSCN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FSHB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FSHR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FTO Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FTSJ1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FUCA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FUS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FXYD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		FZD4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		G6PC1/G6PC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		G6PC3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		G6PD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GAA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GABRA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GABRB3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GABRD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GABRG2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GAD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Galactosemia Panel	NextGen sequencing	B, D, T, C, Sa
		Galactosemia Type I (Classic and Variant Galactosemia) via the GALT Gene, 5.5 kb Common Deletion	Targeted PCR Deletion Test	B, D, T, C, Sa
		GALC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GALE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GALK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Galloway-Mowat Syndrome (GAMOS) Panel	NextGen sequencing	B, D, T, C, Sa
		GALNS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GALNT3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		GALNTL5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GALT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GAMT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GAN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GANAB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GARS1/GARS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GAS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GAS8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Gastric Cancer Panel	NGS and Sanger sequencing	B, D, T, C, Sa
		GATA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GATA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GATA3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GATA4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GATM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GBA1/GBA Gene	Sanger sequencing	B, D, T, C, Sa, Se
		GBA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GBE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GBF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GCDH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GCH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GCK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GCM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GCSH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GDAP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GDF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GDF5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GDF6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GDI1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GDNF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Gene-centric aCGH	aCGH	B, D, T, C, Sa
		Generalized Arterial Calcification of Infancy and Pseudoxanthoma Elasticum Panel	NextGen sequencing	B, D, T, C, Sa
		Generalized, Partial, and Atypical Lipodystrophy Panel	NextGen sequencing	B, D, T, C, Sa
		GFAP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GFI1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GFI1B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GFPT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GGCX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GHR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GHSR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GIPC3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GJA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GJA3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GJA5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GJB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GJB2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		GJB2 Regulatory Element Deletion Testing (GJB6-D13S1830 and GJB6-D13S1854)	Targeted PCR Deletion Test	B, D, T, C, Sa
		GJB3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GJB6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GJC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GLA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Glanzmann's Thrombasthenia Panel	NextGen sequencing	B, D, T, C, Sa
		Glaucoma Panel	NextGen sequencing	B, D, T, C, Sa
		GLB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GLDC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GLDN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GLE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GLI2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GLI3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GLIS2/NPHP7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GLIS3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GLUD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Glutaric Acidemia Type II Panel	NextGen sequencing	B, D, T, C, Sa
		Glycine Encephalopathy Panel	NextGen sequencing	B, D, T, C, Sa
		Glycogen Storage Disease and Disorders of Glucose Metabolism Panel	NextGen sequencing	B, D, T, C, Sa
		Glycogen Storage Disease Type II (Pompe Disease) via the GAA Gene, Exon 18 Deletion	Targeted PCR deletion test	B, D, T, C, Sa
		GM2A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GMPPA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GMPPB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNA11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNAL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNAO1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNAQ Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNAS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNAT2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNB4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNMT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNPAT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNPTAB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNPTG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNRH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNRHR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GNS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GON7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GORAB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GOSR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		GP1BA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GP1BB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GP6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GP9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GPC3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GPD1L Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GPHN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GPI Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GPR143 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GPSM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GREB1L Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GREM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GRHL2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GRHL3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GRHPR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GRIK2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GRIN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GRIN2A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GRIN2B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GRIN2D Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GRIP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GRK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GRN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GRXCR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GSN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GSS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GUCA1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GUCA1B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GUCY2D Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GUSB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GYG1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		GYS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		H3-3A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		H3-3B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HACD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HACE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HADH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HADHA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HADHB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HAMP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HARS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HAX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HBB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HCFC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HCN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HCN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HCN4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HDAC8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		HEPACAM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Hereditary Breast and Ovarian Cancer – Expanded and Lynch Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Breast and Ovarian Cancer – High Risk and Lynch Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Breast and Ovarian Cancer BRCA1/2 Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Cystic Kidney Diseases Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Endometrial Cancer Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Hearing Loss and Deafness Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Hemochromatosis Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Hemolytic Anemia Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Hemorrhagic Telangiectasia (HHT)/Osler-Weber-Rendu Disease, and Capillary Malformation-Arteriovenous Malformation Syndrome (CM)-AVM Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Multiple Osteochondromas (HMO) Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Myelodysplastic Syndrome (MDS)/Acute Myeloid Leukemia (AML) Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Ovarian Cancer Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Paraganglioma-Pheochromocytoma Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Polyposis Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Sensory and Autonomic Neuropathy Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Spastic Paraplegia Comprehensive Panel	NextGen sequencing	B, D, T, C, Sa
		Hereditary Xerocytosis Panel	NextGen sequencing	B, D, T, C, Sa
		Hermansky-Pudlak Syndrome (HPS) Panel	NextGen sequencing	B, D, T, C, Sa
		Hermansky-Pudlak Syndrome via the HPS3 Gene, Exon 1 Deletion	Targeted PCR Deletion Test	B, D, T, C, Sa
		HES7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HESX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Heterotaxy, Situs Inversus and Kartagener's Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		HEXA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HEXB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		HFE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HFM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HGD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HGF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HGSNAT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HINT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Hirschsprung Disease (Non-Syndromic) Panel	NextGen sequencing	B, D, T, C, Sa
		HJV/HFE2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HLCS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HMBS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HMGCL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HNF1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HNF1B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HNF4A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HNRNPA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HNRNPDL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HNRNPU Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HOGA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Holoprosencephaly, Autosomal Dominant, Nonsyndromic, Panel	NextGen sequencing	B, D, T, C, Sa
		Homocystinuria Panel	NextGen sequencing	B, D, T, C, Sa
		HOXA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HOXD13 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HPD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HPRT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HPS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HPS3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HPS4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HPS5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HPS6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HPSE2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HRAS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HS6ST1 Gene	Sanger sequencing	B, D, T, C, Sa, Se
		HSD11B2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HSD17B10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HSD17B3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HSD17B4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HSD3B7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HSPB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HSPB2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HSPB8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HSPD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		HTRA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Huntington Disease via the HTT CAG Repeat Expansion	Repeat Expansion	B, D, T, C, Sa
		HUWE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		HYAL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Hydrocephalus Panel	NextGen sequencing	B, D, T, C, Sa
		Hydroxyglutaric Aciduria Panel	NextGen sequencing	B, D, T, C, Sa
		Hyper IgE Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Hyper IgM Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Hyperammonemia Panel	NextGen sequencing	B, D, T, C, Sa
		Hypermethioninemia Panel	NextGen sequencing	B, D, T, C, Sa
		Hyperphenylalaninemia Panel	NextGen sequencing	B, D, T, C, Sa
		Hypertrophic Cardiomyopathy Panel	NextGen sequencing	B, D, T, C, Sa
		Hypoglycemia Panel – Expanded	NextGen sequencing	B, D, T, C, Sa
		Hypogonadotropic Hypogonadism/Kallmann Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Hypomagnesemia Panel	NextGen sequencing	B, D, T, C, Sa
		Hypoparathyroidism Panel	NextGen sequencing	B, D, T, C, Sa
		Hypophosphatasia (HPP) and Inherited Hypophosphatemic Rickets Panel	NextGen sequencing	B, D, T, C, Sa
		Hypopigmentation Panel	NextGen sequencing	B, D, T, C, Sa
		Hypospadias Panel	NextGen sequencing	B, D, T, C, Sa
		IDH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IDH2 Gene-Targeted Variants Analysis	Sanger sequencing	B, D, T, C, Sa, Se
		Idiopathic Basal Ganglia Calcification Panel	NextGen sequencing	B, D, T, C, Sa
		IDS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IDUA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IFIH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IFITM5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IFT122 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IGHMBP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IGSF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IKZF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IKZF3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IL11RA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IL12RB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IL17RD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IL1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IL1B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IL1RAPL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IL1RN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IL2RG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IL31RA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IL36RN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IL7R Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ILDRI Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IMPDH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		IMPG1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IMPG2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Inborn Errors of Immunity/Primary Immunodeficiency Panel	NextGen sequencing	B, D, T, C, Sa
		INF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Infantile Liver Failure Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Infantile Myofibromatosis Panel	NextGen sequencing	B, D, T, C, Sa
		Infantile Parkinsonism-Dystonia Panel	NextGen sequencing	B, D, T, C, Sa
		Inherited Bone Marrow Failure Panel	NextGen sequencing	B, D, T, C, Sa
		Inherited Glycosylphosphatidylinositol Biosynthesis Defects (IGDs) Panel	NextGen sequencing	B, D, T, C, Sa
		Inherited Platelet Function Disorder Panel	NextGen sequencing	B, D, T, C, Sa
		INPP5E Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		INS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		INSR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Intellectual Disability, Epilepsy, and Autism (IDEA) Panel	NextGen sequencing	B, D, T, C, Sa
		Interstitial Lung Disease Panel	NextGen sequencing	B, D, T, C, Sa
		INVS/NPHP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IQCB1/NPHP5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IQSEC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IRAK4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IRF2BPL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IRF6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ISCU Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Isolated Polycystic Liver Disease (PCLD) Panel	NextGen sequencing	B, D, T, C, Sa
		ITGA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ITGA2B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ITGA3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ITGA4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ITGA6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ITGA7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ITGA9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ITGB3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ITGB4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ITIH6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ITM2B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IVD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		IYD/DEHAL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		JAG1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		JAK2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		JAK3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		JARID2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Joubert and Meckel-Gruber Syndromes Panel	NextGen sequencing	B, D, T, C, Sa
		JUP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Kabuki Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Kallmann Syndrome (KS) Panel	NextGen sequencing	B, D, T, C, Sa
		KANK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KANK2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KANK4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KARS1/KARS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KAT6B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KATNAL2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KATNB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KBTBD13 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNA5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCND3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNE2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNE3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNE5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNH2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNJ1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNJ10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNJ11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNJ12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNJ2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNJ5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNQ1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNQ2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNQ3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNQ4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCNV2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KCTD7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KDM5C Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KDM6A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KDR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Kenny-Caffey Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		KIF11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KIF1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KIF1B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KIF1C Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KIF2A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KIF5A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KIF7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		KIFBP (KIAA1279/KIF1BP) Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KISS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KISS1R Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KIT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KITLG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KIZ Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KLF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KLF11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KLHL3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KLHL40 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KLHL41 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KLHL7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KLHL9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Klippel-Feil Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		KLK4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KMT2A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KMT2C Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KMT2D Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KMT5B/SUV420H1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KPNA7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Krabbe Disease via the GALC Exons 11-17 (502T/Del)	Targeted PCR Deletion Test	B, D, T, C, Sa
		KRAS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KRIT1/CCM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KRIT1/CCM1 Gene, Exon 10	Sanger sequencing	B, D, T, C, Sa, Se
		KRT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KRT12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KRT14 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KRT2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KRT5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KRT85 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KRT9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		KSR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		L1CAM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		L2HGDH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LAGE3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LAMA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LAMA2 Gene, Exon 55	Sanger sequencing	B, D, T, C, Sa, Se
		LAMA3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LAMA4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LAMB2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LAMB3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LAMC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LAMP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LARGE1/LARGE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LARP7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LARS1/LARS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LARS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		LAS1L Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LBR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LCA5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LCAT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LDB3/ZASP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LDLR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LDLRAP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Leber Congenital Amaurosis Panel	NextGen sequencing	B, D, T, C, Sa
		Leber Hereditary Optic Neuropathy (LHON) – Targeted Testing for 3 Common Pathogenic Variants	Sanger sequencing	B, D, T, C, Sa, Se
		LECT2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Left Ventricular Noncompaction (LVNC) Panel	NextGen sequencing	B, D, T, C, Sa
		LEFTY2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Leigh and Leigh-Like Syndrome Panel (Nuclear Genes Only)	NextGen sequencing	B, D, T, C, Sa
		LEP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LEPR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Leukodystrophy and Leukoencephalopathy Panel	NextGen sequencing	B, D, T, C, Sa
		Leukodystrophy and Leukoencephalopathy, Adult Onset Panel	NextGen sequencing	B, D, T, C, Sa
		Leukoencephalopathy with Vanishing White Matter and Ovarioleukodystrophy Panel	NextGen sequencing	B, D, T, C, Sa
		LFNG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LGII Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LGI4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LHB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LHCGR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LHFPL5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LHX3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LHX4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LIAS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LIG4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LIM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Limb Girdle Muscular Dystrophy (LGMD) Panel	NextGen sequencing	B, D, T, C, Sa
		LIMS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LIPA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LIPE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Lissencephaly Panel	NextGen sequencing	B, D, T, C, Sa
		LITAF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LMAN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LMBRD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LMNA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LMOD3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		LMX1B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Loeys-Dietz Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Long QT Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		LOX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LOXHD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LPIN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LPIN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LPL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LRAT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LRIG2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LRIT3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LRMDA/C10orf11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LRP5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LRPPRC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LRRK2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LRSAM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LRTOMT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LTBP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LTBP3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LTBP4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Lymphedema Panel	NextGen sequencing	B, D, T, C, Sa
		Lynch Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Lynch Syndrome via MLPA of PMS2	MLPA	B, D, C
		LYRM7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Lysosomal Storage Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		LYST Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LYZ Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		LZTR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MAB21L2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MAF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MAG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MAGEL2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Male Infertility Panel	NextGen sequencing	B, D, T, C, Sa
		Malignant Hyperthermia Susceptibility Panel	NextGen sequencing	B, D, T, C, Sa
		MAN1B1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MAN2B1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MANBA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Manitoba Oculotrichoanal Syndrome (MOTA) via the FREM1 Exon 8-23 Deletion	Targeted PCR Deletion Test	B, D, T, C, Sa
		MAOA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MAP2K1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MAP2K2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MAP3K1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MAP3K8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MAPK10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		MAPK8IP3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Maple Syrup Urine Disease Panel	NextGen sequencing	B, D, T, C, Sa
		MAPT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Marfan Syndrome and Related Aortopathies Panel	NextGen sequencing	B, D, T, C, Sa
		MARS1/MARS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MARVELD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MASTL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MAT1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MATN3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MATR3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Maturity Onset Diabetes of the Young (MODY) Panel	NextGen sequencing	B, D, T, C, Sa
		MAX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MBD5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MBTPS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MC4R Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MCCC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MCCC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MCEE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MCFD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MCIDAS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MCM3AP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MCM8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MCM9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MCOLN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MCPH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MECP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MED12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MED13 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MED13L Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MED25 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Medulloblastoma Panel	NextGen sequencing	B, D, T, C, Sa
		MEF2C Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MEFV Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Megalencephalic Leukoencephalopathy with Subcortical Cysts Panel	NextGen sequencing	B, D, T, C, Sa
		MEGF10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Meier-Gorlin Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Melanoma Panel	NextGen sequencing	B, D, T, C, Sa
		MEN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Mendelian Susceptibility to Mycobacterial Disease Panel	NextGen sequencing	B, D, T, C, Sa
		MEOX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MERTK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MESP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MET Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Metabolic Hypoglycemia Panel	NextGen sequencing	B, D, T, C, Sa

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		Metabolic Myopathies, Rhabdomyolysis and Exercise Intolerance Panel	NextGen sequencing	B, D, T, C, Sa
		Metachromatic Leukodystrophy Panel	NextGen sequencing	B, D, T, C, Sa
		Methylmalonic Acidemia Panel	NextGen sequencing	B, D, T, C, Sa
		Methylmalonic Aciduria and Homocystinuria Panel	NextGen sequencing	B, D, T, C, Sa
		MFN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MFRP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MFSD8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MGME1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Microphthalmia/Anophthalmia/Coloboma Panel	NextGen sequencing	B, D, T, C, Sa
		MID1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MIP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MITF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Mitochondrial Complex I Deficiency Panel (Nuclear Genes)	NextGen sequencing	B, D, T, C, Sa
		Mitochondrial Complex II Deficiency Panel	NextGen sequencing	B, D, T, C, Sa
		Mitochondrial Complex III Deficiency Panel (Nuclear Genes)	NextGen sequencing	B, D, T, C, Sa
		Mitochondrial Complex IV Deficiency Panel (Nuclear Genes)	NextGen sequencing	B, D, T, C, Sa
		Mitochondrial Complex V Deficiency Panel (Nuclear Genes)	NextGen sequencing	B, D, T, C, Sa
		Mitochondrial Disorders Panel (Nuclear Genes Only)	NextGen sequencing	B, D, T, C, Sa
		Mitochondrial Genome Maintenance/Integrity Nuclear Genes Panel	NextGen sequencing	B, D, T, C, Sa
		Mitochondrial Trifunctional Protein Deficiency and Long-Chain 3-Hydroxyacyl CoA Dehydrogenase Deficiency Panel	NextGen sequencing	B, D, T, C, Sa
		MKKS/BBS6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MKS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MLC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MLH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MLH3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MLYCD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MMAA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MMAB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MMACHC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MMADHC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MMP13 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MMP20 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MMUT/MUT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		MNX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MOCOS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MOCS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MOCS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Monogenic Diabetes Panel	NextGen sequencing	B, D, T, C, Sa
		MPC1/BRP44L Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MPDU1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MPDZ Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MPI Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MPL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MPV17 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MPZ Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MRE11/MRE11A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MRPL3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MSH2 Exons 1-7 Inversion	Targeted PCR Deletion Test	B, D, T, C, Sa
		MSH2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MSH6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MSRB3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MSX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MSX2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MTFMT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MTHFR/C12orf65 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MTM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MTMR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MTPAP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MTR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MTRFR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MTRR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MUC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Mucopolysaccharidosis Type III Panel	NextGen sequencing	B, D, T, C, Sa
		Multiple Epiphyseal Dysplasia Panel	NextGen sequencing	B, D, T, C, Sa
		MUSK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MUTYH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MVK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYBPC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYBPC3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYCN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYD88 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYF6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYH11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYH14 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYH2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYH3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYH6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYH7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYH8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		MYH9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYL2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYL3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYL4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYLK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYLPP/MYL11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYO15A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYO18B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYO1E Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYO3A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYO5A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYO6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYO7A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYO9A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYOC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYOD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYOT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYOZ2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		MYT1L Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NAA10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NAA15 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NAGLU Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NAGPA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NAGS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NALCN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NBAS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NBEAL2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NBN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NCF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NCF4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDRG1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFA11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFA12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFA9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFAP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFAP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFAP4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFAP6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFB3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFB9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFS4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFS6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFS7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		NDUFV1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NDUFV2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NEB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NECTIN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NEDD4L Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NEFL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NEK8/NPHP9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Nemaline Myopathy Panel	NextGen sequencing	B, D, T, C, Sa
		Nemaline Myopathy via the NEB Exon 55 Deletion	Targeted PCR Deletion Test	B, D, T, C, Sa
		Neonatal Crisis Panel	NextGen sequencing	B, D, T, C, Sa
		Neonatal Respiratory Distress Panel	NextGen sequencing	B, D, T, C, Sa
		Nephrolithiasis and Nephrocalcinosis Panel	NextGen sequencing	B, D, T, C, Sa
		Nephronophthisis and Senior-Loken Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Nephrotic Syndrome (NS)/Focal Segmental Glomerulosclerosis (FSGS) Panel	NextGen sequencing	B, D, T, C, Sa
		Neuroblastoma Panel	NextGen sequencing	B, D, T, C, Sa
		NEUROD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Neurodegeneration with Brain Iron Accumulation and Infantile Neuroaxonal Dystrophy Panel	NextGen sequencing	B, D, T, C, Sa
		Neurofibromatosis Type 1 and Legius Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Neurofibromatosis Type 1 and Related Disorders via MLPA of NF1	MLPA	B, D, C
		Neurohypophyseal Diabetes Insipidus and Nephrogenic Diabetes Insipidus Panel	NextGen sequencing	B, D, T, C, Sa
		Neuronal Ceroid Lipofuscinoses (Batten Disease) Panel	NextGen sequencing	B, D, T, C, Sa
		NEXN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NGF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NHERF1/SLC9A3R1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NHLRC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NHP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NHS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Niemann-Pick Disease Type C Panel	NextGen sequencing	B, D, T, C, Sa
		NIPA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NIPAL4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NIPBL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NKX2-1/TTF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NKX2-5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		NLGN3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NLGN4X Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NLRP12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NLRP3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NME8/TXNDC3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NOBOX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NOD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NODAL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NOG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Non-Immune Hydrops Fetalis Panel	NextGen sequencing	B, D, T, C, Sa
		NONO Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Nonsyndromic Congenital Heart Disease Panel	NextGen sequencing	B, D, T, C, Sa
		Non-Syndromic Monogenic Obesity Panel	NextGen sequencing	B, D, T, C, Sa
		Noonan Spectrum Disorders/RASopathies Panel	NextGen sequencing	B, D, T, C, Sa
		NOP10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NOTCH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NOTCH2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NOTCH3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NPC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NPC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NPHP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NPHP3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NPHP4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NPHS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NPHS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NPM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NPPA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NPRL2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NR0B1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NR1H4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NR1I3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NR2E3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NR2F1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NR3C2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NR5A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NRAS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NRL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NRTN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NRXN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NSD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NSDHL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NSMF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NSUN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NT5C3A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NTRK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		NUBPL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NUP107 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NUP205 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NUP88 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NUP93 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NXF5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		NYX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		OAT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		OCA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		OCRL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Oculocutaneous Albinism Panel	NextGen sequencing	B, D, T, C, Sa
		Oculocutaneous Albinism Type 2 (OCAII) via the OCA2 Known Intragenic Gross Deletion	Targeted PCR Deletion Test	B, D, T, C, Sa
		Oculopharyngeal Muscular Dystrophy via the PABPN1 (GCN) Repeat Expansion	Repeat Expansion	B, D, T, C, Sa
		ODAD1/CCDC114 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ODAD3/CCDC151 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ODAD4/TTC25 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ODAPH/C4orf26 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		OFD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Omenn Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		OPA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		OPA3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		OPHN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Opitz G/BBB Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Optic Atrophy Panel	NextGen sequencing	B, D, T, C, Sa
		OPTN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ORC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ORC4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ORC6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Organic Aciduria Panel	NextGen sequencing	B, D, T, C, Sa
		OSGEP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		OSMR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Osteogenesis Imperfecta and Hypophosphatasia (HPP) Panel	NextGen sequencing	B, D, T, C, Sa
		Osteogenesis Imperfecta Panel	NextGen sequencing	B, D, T, C, Sa
		Osteogenesis Imperfecta, Hypophosphatasia (HPP), and Inherited Hypophosphatemic Rickets Panel	NextGen sequencing	B, D, T, C, Sa
		OSTM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		OTC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		OTOA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		OTOF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		OTX2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		Overgrowth and Macrocephaly Syndromes Panel	NextGen sequencing	B, D, T, C, Sa
		OXCT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		P2RX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		P2RY12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		P3H1/LEPRE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PACS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PAFAH1B1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Paget Disease of Bone (PDB) Panel	NextGen sequencing	B, D, T, C, Sa
		PAH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PAK3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PALB2/FANCN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Pan Cardiomyopathy Panel	NextGen sequencing	B, D, T, C, Sa
		Pancreatic Cancer Panel	NextGen sequencing	B, D, T, C, Sa
		PANK2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PARK7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Parkinson Disease and Parkinsonism Panel	NextGen sequencing	B, D, T, C, Sa
		Parkinson Disease Panel	NextGen sequencing	B, D, T, C, Sa
		PARN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Paroxysmal Paralytic Rhabdomyolysis via the LPIN1 Gene, Exons 18-19 Deletion	Targeted PCR Deletion Test	B, D, T, C, Sa
		PAX2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PAX3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PAX4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PAX5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PAX6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PAX8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PAX9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PCBD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PCCA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PCCB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PCDH15 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PCDH19 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PCK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PCK2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PCSK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PCSK9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDCD10/CCM3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDE11A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDE3A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDE6A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDE6B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDE6C Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDE6H Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDGFRA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		PDGFRB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDHA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDHB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDHX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDK3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDSS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDSS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PDZD7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Pediatric Cancer Panel	NextGen sequencing	B, D, T, C, Sa
		Pendred Syndrome and Nonsyndromic Hearing Loss Associated with Enlarged Vestibular Aqueduct Panel	NextGen sequencing	B, D, T, C, Sa
		PER2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Periodic Fever Syndromes Panel	NextGen sequencing	B, D, T, C, Sa
		Peroxisomal Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		PET100 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PEX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PEX10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PEX11B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PEX12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PEX13 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PEX14 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PEX16 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PEX19 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PEX2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PEX26 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PEX3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PEX5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PEX6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PEX7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PFKM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PFN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PGAM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PGK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PGmito – Mitochondrial Genome Sequencing	Long-range PCR with NextGen sequencing	B, D, T
		PGnome – Whole Genome Sequencing	NextGen sequencing	B, D
		PGxome - Whole Exome Sequencing	NextGen sequencing	B, D, T, C, Sa
		PGxome RAPID	NextGen sequencing	B, D, T, C, Sa
		PHEX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PHF6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PHF8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PHGDH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		PHKA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PHKA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PHKB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PHKG2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PHOX2A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PHOX2B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PHOX2B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PHYH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PICK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PIEZO1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PIEZO2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PIGA Gene	Sanger sequencing	B, D, T, C, Sa, Se
		PIGG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PIGO Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PIGY Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PIK3CA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PIK3CD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PIK3R2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PIK3R5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PINK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PITPNM3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PITX2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PITX3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PJVK/DFNB59 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PKD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PKD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PKHD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PKLR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PKP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PKP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PLA2G5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PLA2G6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PLAU Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PLCB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PLCE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PLEC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PLEKHG5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PLG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PLN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PLOD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PLOD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PLP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PMM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PMP22 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PMS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PNKD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PNKP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PNPLA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		PNPLA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PNPO Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POC1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POC1B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POGZ Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POLD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POLE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POLG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POLG2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POLH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POLR1C Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POLR1D Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POLR3A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POLR3B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Polycystic Lipomembranous Osteodysplasia with Sclerosing Leukoencephalopathy Panel	NextGen sequencing	B, D, T, C, Sa
		Polycystic Liver Disease (PLD) Panel	NextGen sequencing	B, D, T, C, Sa
		Polydactyly and Syndactyly Panel	NextGen sequencing	B, D, T, C, Sa
		Polydactyly Panel	NextGen sequencing	B, D, T, C, Sa
		POMC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POMGNT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POMGNT2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POMK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POMP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POMT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POMT2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Pontocerebellar Hypoplasia Panel	NextGen sequencing	B, D, T, C, Sa
		POR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PORCN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Porphyria Panel	NextGen sequencing	B, D, T, C, Sa
		POU3F4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		POU4F3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PPOX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PPP1R12A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PPT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PQBP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Prader-Willi Syndrome by MS-MLPA	MLPA	B, D, C
		PRCD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRDM12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRDM13 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Premature Ovarian Failure (POF) Panel	NextGen sequencing	B, D, T, C, Sa
		PRF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Primary Aldosteronism Panel	NextGen sequencing	B, D, T, C, Sa
		Primary Antibody Deficiency Panel	NextGen sequencing	B, D, T, C, Sa

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		Primary Ciliary Dyskinesia (PCD)/Immotile Cilia Syndrome and Cystic Fibrosis Panel	NextGen sequencing	B, D, T, C, Sa
		Primary Ciliary Dyskinesia (PCD)/Immotile Cilia Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Primary Hyperoxaluria Panel	NextGen sequencing	B, D, T, C, Sa
		Primary Immunodeficiency and Malignancy Predisposition Panel	NextGen sequencing	B, D, T, C, Sa
		Primary Microcephaly, Autosomal Recessive Panel	NextGen sequencing	B, D, T, C, Sa
		Primary Periodic Paralysis Panel	NextGen sequencing	B, D, T, C, Sa
		PRKACG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRKAG2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRKAR1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRKCSH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRKG1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRKN/PARK2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRLR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PROC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRODH2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Progressive Familial Intrahepatic Cholestasis (PFIC) and Alagille Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		PROK2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PROKR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PROM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PROP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Propionic Acidemia Panel	NextGen sequencing	B, D, T, C, Sa
		PROS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Prostate Cancer Panel	NextGen sequencing	B, D, T, C, Sa
		PRPF3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRPF31 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRPF6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRPF8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRPH2/RDS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRPS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRRT2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRRX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRSS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRSS12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRSS56 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PRX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PSAP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PSEN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PSEN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Pseudohypoaldosteronism Type I Panel	NextGen sequencing	B, D, T, C, Sa

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		Pseudohypoaldosteronism Type II Panel	NextGen sequencing	B, D, T, C, Sa
		PSMB4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PSMB8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PSMC3IP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PSTPIP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PTCH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PTCHD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PTEN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PTF1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PTGS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PTH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PTH1R Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PTPN11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PTPN23 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PTPRJ Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PTPRO Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PTPRQ Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PTS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Pulmonary Arterial Hypertension (PAH) Panel	NextGen sequencing	B, D, T, C, Sa
		Pulmonary Fibrosis and Surfactant Dysfunction Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		PURA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Pure Hereditary Spastic Paraplegia Panel	NextGen sequencing	B, D, T, C, Sa
		PXDN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PYCR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PYGL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		PYGM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Pyruvate Dehydrogenase Complex Deficiency Panel	NextGen sequencing	B, D, T, C, Sa
		QDPR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAB18 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAB27A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAB39B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAB3GAP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAB3GAP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAB7A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAD21 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAD50 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAD51/FANCR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAD51C/FANCO Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAD51D Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAG1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAG2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAI1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		RANGRF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Rapid Chromosomal Microarray	aCGH	B, D, T, C, Sa
		Rapid Prenatal Chromosomal Microarray	aCGH	B, D, T, C, Sa
		RAPSN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RARS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RASA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RAX2/QRX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RBCK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RBM10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RBM20 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RBM8A Gene	Sanger sequencing	B, D, T, C, Sa, Se
		RBM8A Gene Sequencing and 1q21.1 Deletion	Sanger sequencing with CMA	B, D, T, C, Sa
		RBP3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RBPJ Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RCBTB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RDH12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RDH5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RDX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RECQL4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		REEP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		REEP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		REEP6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RELN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		REN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Renal Cancer Panel	NextGen sequencing	B, D, T, C, Sa
		RET Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RET Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Retinitis Pigmentosa (includes RPGR ORF15) Panel	NextGen sequencing	B, D, T, C, Sa
		Rett Syndrome, Angelman Syndrome and Variant Syndromes Panel	NextGen sequencing	B, D, T, C, Sa
		RFWD3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RFX6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RGR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RGS9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RGS9BP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RHBDF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RHO Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RIMS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RIN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RIPK4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RIT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RLBP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

Specialty	Sub Specialty	Test/Analyte	Method(s)	Matrix(ces)
Pathology				
	Molecular Pathology (cont.)			
		RMRP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RNASEH2A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RNASEH2B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RNASEH2C Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RNASEL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RNF113A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RNF125 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ROGDI Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ROM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ROR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Rotor Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		RP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPE65 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPGR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPGR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPGRIP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPGRIP1L Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPL10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPL11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPL15 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPL26 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPL35A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPL5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPS10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPS17 Gene	Sanger sequencing	B, D, T, C, Sa, Se
		RPS19 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPS24 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPS26 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPS6KA3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPS7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RPSA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RRAS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RRM2B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RSPH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RSPH3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RSPH4A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RSPH9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RTEL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RTN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Rubinstein-Taybi Syndrome and Floating-Harbor Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		RUNX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RUNX2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RXYLT1/TMEM5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RYR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		RYR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		SACS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SAG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SALL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SALL4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SAMHD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SARS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SBDS Gene	Sanger sequencing	B, D, T, C, Sa, Se
		SBF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SBF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCARB2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Schwannomatosis Panel	NextGen sequencing	B, D, T, C, Sa
		SCN10A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCN11A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCN1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCN1B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCN2A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCN2B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCN3A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCN3B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCN4A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCN4B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCN5A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCN8A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCN9A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCNN1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCNN1B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCNN1G Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCO1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCO2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SCYL2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SDCCAG8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SDHA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SDHAF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SDHAF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SDHB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SDHC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SDHD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SEC23B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SEC63 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SECISBP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SELENON/SEPN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SEMA3A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SEMA4A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SEPSECS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Septo-Optic Dysplasia Spectrum Panel	NextGen sequencing	B, D, T, C, Sa
		SERPINA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SERPINB6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		SERPINC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SERPINE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SERPINF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SERPINF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SERPING1/C1NH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SERPINH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SETBP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SETD5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SETX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Severe Combined Immunodeficiency (SCID) Panel	NextGen sequencing	B, D, T, C, Sa
		Severe Congenital Neutropenia Panel	NextGen sequencing	B, D, T, C, Sa
		SF3B4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SFTPA2 Gene	Sanger sequencing	B, D, T, C, Sa, Se
		SFTPB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SFTPC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SGCA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SGCB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SGCD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SGCE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SGCG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SGSH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SH2D1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SH3BP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SH3TC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SHANK3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SHH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SHOC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Short QT Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Short Rib Skeletal Dysplasia Panel	NextGen sequencing	B, D, T, C, Sa
		SHOX Gene	Sanger sequencing	B, D, T, C, Sa, Se
		SHOX2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SIL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SIM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Sitosterolemia Panel	NextGen sequencing	B, D, T, C, Sa
		SIX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SIX2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SIX3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SIX5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Skeletal Disorders and Joint Problems Panel	NextGen sequencing	B, D, T, C, Sa
		SKI Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Skin and Connective Tissue Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		SLC12A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC12A3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC12A6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		SLC13A5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC16A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC16A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC17A5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC17A8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC18A3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC19A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC19A3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC20A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC22A5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC24A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC24A5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC25A13 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC25A15 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC25A20 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC25A22 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC25A3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC25A4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC26A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC26A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC26A4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC26A5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC26A8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC29A3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC2A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC2A10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC2A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC2A9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC33A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC34A3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC35A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC35C1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC37A4/G6PT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC38A8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC3A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC40A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC45A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC46A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC4A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC4A11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC4A4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC52A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC52A3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC5A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC5A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC5A5/NIS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC5A7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC6A3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		SLC6A8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC7A14 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC7A9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC9A3R1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLC9A6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLCO1B1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLCO1B3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLMAP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SLX4/FANCP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SMAD3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SMAD4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SMARCA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SMARCA4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SMARCAL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SMARCB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SMARCE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SMC1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SMC3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SMCHD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SMO Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SMPD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SMPX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SMS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SNAI2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SNCA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SNRNP200 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SNTA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SNX10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SOD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SOHLH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SOS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SOS2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SOX10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SOX18 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SOX2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SOX3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SOX5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SOX9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SP7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SPAG1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SPART/SPG20 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SPAST Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SPATA16 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Specialized Sequencing of the Mutational Hotspot RPGR (isoform C) ORF15 Region	Sanger sequencing	B, D, T, C, Sa, Se
		SPG11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SPG21/ACP33 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		SPG7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Spherocytosis/Elliptocytosis Panel	NextGen sequencing	B, D, T, C, Sa
		Spinal Muscular Atrophy via MLPA of SMN1 and SMN2	MLPA	B, D, C
		SPINK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SPINK5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Spinocerebellar Ataxia Type 17 via the TBP CAG/CAA Repeat Expansion	Repeat Expansion	B, D, T, C, Sa
		Spinocerebellar Ataxia Type 2 via the ATXN2 CAG Repeat Expansion	Repeat Expansion	B, D, T, C, Sa
		Spondylocostal Dysostosis Panel	NextGen sequencing	B, D, T, C, Sa
		SPR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SPRED1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SPRY1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SPTA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SPTAN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SPTB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SPTLC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SQSTM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SRCAP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SRD5A2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SRP72 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SRSF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SRY Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ST3GAL3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ST3GAL4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ST3GAL5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		STAC3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		STAG3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Stargardt Disease (STGD) and Macular Dystrophies Panel	NextGen sequencing	B, D, T, C, Sa
		STAT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		STAT3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Sterol Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		Stickler Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		STIL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		STIM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		STK11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Strabismus Syndrome or Congenital Fibrosis of Extraocular Muscles (Ocular Motility Disorder) Panel	NextGen sequencing	B, D, T, C, Sa
		STRC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		STRC Gene	MLPA	
		Stroke, Cerebral Hemorrhage, Hemiplegia, and Migraine Panel	NextGen sequencing	B, D, T, C, Sa
		Stuttering Panel	NextGen sequencing	B, D, T, C, Sa
		STX11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		STX16 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		STX1B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		STXBP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		STXBP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SUCLA2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SUCLG1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SUCLG2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Sudden Cardiac Arrest Panel	NextGen sequencing	B, D, T, C, Sa
		SUFU Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SUMF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SUOX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SUPT16H Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SURF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SUZ12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SYN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Syndactyly Panel	NextGen sequencing	B, D, T, C, Sa
		SYNE1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SYNGAP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SYNJ1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SYP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SYT2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		SZT2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TAC3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TACO1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TACR3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TACSTD2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TAF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TAF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TAFAZZIN/TAZ Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TAL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TALDO1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TARDBP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Targeted Variant Sequencing	Sanger sequencing	B, D, T, C, Sa, Se
		TAT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Tay-Sachs Disease via the French Canadian Deletion in the HEXA Gene	Targeted PCR deletion test	B, D, T, C, Sa
		TBC1D20 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TBC1D24 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TBCE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TBK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TBR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TBX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TBX20 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TBX22 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TBX3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TBX4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TBX5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		TBX6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TBXA2R Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TBXAS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TCAP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TCF12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TCF4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TCIRG1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TCN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TCOF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TCTN1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TCTN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TECPR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TECR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TECTA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TERC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TERT Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TET2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TFAP2A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TFAP2B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TFG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TFR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TG Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TGFB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TGFB2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TGFB3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TGFBI Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TGFBR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TGFBR2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TGIF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TGM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TGM5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		THAP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		THBD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		THPO Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		THRA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		THRB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Thrombocytopenia Absent Radius (TAR) Syndrome via the RBM8A 1q21.1 Deletion	aCGH	B, D, T, C, Sa
		Thrombocytopenia Panel	NextGen sequencing	B, D, T, C, Sa
		Thrombocytopenia Panel – Expanded	NextGen sequencing	B, D, T, C, Sa
		TIA1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TIMM8A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TIMP3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TINF2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TJP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		TK2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMEM126A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMEM127 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMEM138 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMEM216 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMEM237 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMEM240 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMEM38B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMEM43 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMEM67 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMEM70 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMIE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMPO Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMPRSS3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TMPRSS6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TNFRSF11A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TNFRSF11B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TNFRSF13B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TNFRSF1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TNFSF11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TNK2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TNNC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TNNI2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TNNI3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TNNT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TNNT2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TNNT3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TNPO3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TNXB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Tooth Agenesis Panel	NextGen sequencing	B, D, T, C, Sa
		Top 99 Genetic Causes of Developmental Delay Panel	NextGen sequencing	B, D, T, C, Sa
		TOPORS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TOR1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TOR1AIP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TP53 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TP53RK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TP63 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TPI1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TPM1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TPM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TPM3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TPO Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TPP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TPRKB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TPRN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRAP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		TRAPPC11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRAPPC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRAPPC9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRDN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Treacher Collins Syndrome/Mandibulofacial Dysostosis/Miller Syndrome/Acrofacial Dysostosis, Nagar Type Panel	NextGen sequencing	B, D, T, C, Sa
		TREM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TREX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRIM2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRIM32/BBS11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRIOBP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRIP11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRIP12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRMU Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRPC6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRPM4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRPM6 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRPS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TRPV4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TSC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TSC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TSEN15 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TSEN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TSEN34 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TSEN54 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TSFM Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TSHB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TSHR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TSPAN12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TSPAN7 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TTC12 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TTC19 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TTC7A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TTC8/BBS8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TTN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TTR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TUBA1A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TUBB3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Tuberous Sclerosis Complex Deletion/Duplication Testing via MLPA	MLPA	B, D, C
		Tuberous Sclerosis Complex Panel	NextGen sequencing	B, D, T, C, Sa
		TUBG1 Gene	Sanger sequencing	B, D, T, C, Sa, Se
		TULP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		TUSC3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TWIST1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TWNK/C10orf2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TYK2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		TYMP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Type VI-Related Collagenopathy Panel	NextGen sequencing	B, D, T, C, Sa
		TYR Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Tyrosinemia Panel	NextGen sequencing	B, D, T, C, Sa
		TYRP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		U2AF1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UBE2A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UBE3A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UBIAD1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UBQLN2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UBR1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UBR5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UCHL1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UCP2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UGT1A1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UMOD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UMPS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UNC119 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UNC13D Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UNC50 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UPF3B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UPK3A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UQCC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UQCC3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UQCRB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UQCRC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UQCRQ Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Urea Cycle Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		UROD Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		UROS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		USB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		USH1C Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		USH1G Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		USH2A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Usher Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		USP8 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		USP9X Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VACTERL Association and Related Disorders Panel	NextGen sequencing	B, D, T, C, Sa
		Van der Woude Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		VAPB Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VCAN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VCL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		VCP Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VHL Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VIPAS39 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VKORC1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VPS13B/COH1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VPS13D Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VPS33A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VPS33B Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VPS37A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VPS45 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VPS53 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VRK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VSX1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		VWF Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Waardenburg Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		Warburg Micro Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		WAS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WASHC4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WASHC5/KIAA0196 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WDR11 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WDR35 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WDR45 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WDR62 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WDR72 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WDR73 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WFS1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Whole Genome CMA	aCGH	B, D, T, C, Sa
		Whole Genome CMA prenatal	aCGH	D, T, C, P
		WHRN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Wilms Tumor Panel	NextGen sequencing	B, D, T, C, Sa
		WNK1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WNK4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WNT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WNT10A Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WNT4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Wolfram Syndrome Panel	NextGen sequencing	B, D, T, C, Sa
		WRAP53 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WRN Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WT1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		WWOX Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		XDH Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Xeroderma Pigmentosum Panel	NextGen sequencing	B, D, T, C, Sa
		XIAP/BIRC4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		XK Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		X-Linked Hypoparathyroidism via the Interstitial Deletion-Insertion Involving Chromosomes 2p25.3 and Xq27.1, Near SOX3	Targeted PCR Deletion Test	B, D, T, C, Sa

<u>Specialty</u>	<u>Sub Specialty</u>	<u>Test/Analyte</u>	<u>Method(s)</u>	<u>Matrix(ces)</u>
Pathology				
	Molecular Pathology (cont.)			
		X-Linked Intellectual Disability Panel	NextGen sequencing	B, D, T, C, Sa
		X-linked Retinitis Pigmentosa (XLRP) (includes RPGR ORF15) and Choroideremia Panel	NextGen sequencing	B, D, T, C, Sa
		X-linked Spinal and Bulbar Muscular Atrophy (Kennedy Disease) via the AR Gene CAG Repeat Expansion	Repeat Expansion	B, D, T, C, Sa
		XPA Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		XPC Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		XPNPEP3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		XPO5 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		XRCC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		XRCC4 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		Y Chromosome Deletion Analysis	Targeted PCR Deletion Test	B, D, T, C, Sa
		YARS1/YARS Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		YWHAE Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZBTB18 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZBTB20 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZC3H14 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZC4H2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZDHHC9 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZEB1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZEB2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZFP57 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZFPM2/FOG2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZFYVE26 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZIC2 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZIC3 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZMPSTE24 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZMYND10 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZNF408 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZNF513 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZNF582 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZNF711 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se
		ZP1 Gene	NGS and Sanger sequencing	B, D, T, C, Sa, Se



Accredited Laboratory

A2LA has accredited

PREVENTION GENETICS, LLC

Marshfield, WI

for technical competence in the field of

Clinical

This laboratory is accredited in accordance with the recognized International Standard ISO 15189:2022 *Medical laboratories - Requirements for quality and competence*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint IAF-ILAC-ISO Communiqué dated November 2021).



Presented this 6th day of June 2024.

A blue ink signature of Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3950.01
Valid to May 31, 2026