



3-Hydroxy-3-Methylglutaryl-Coenzyme A Lyase Deficiency, <i>HMGCL</i>	3-Methylcrotonyl-CoA Carboxylase Deficiency 1, MCCC1	3-Methylcrotonyl-CoA Carboxylase Deficiency 2, MCCC2
3-Methylglutaconic Aciduria, Type 3 [Costeff Syndrome], <i>OPA3</i>	3-Phosphoglycerate Dehydrogenase Deficiency, PHGDH	6-Pyruvoyl-Tetrahydropterin Synthase (PTPS) Deficiency, <i>PTS</i>
Abetalipoproteinemia, MTTP	Achondrogenesis, Type 1B, SLC26A2	Achromatopsia (CNGB3-related), CNGB3
Acute Infantile Liver Failure (TRMU-related), TRMU	Acyl-CoA Oxidase I Deficiency, ACOX1	Adrenoleukodystrophy, X-Linked, ABCD1
Aicardi-Goutières Syndrome, SAMHD1	Alpha Thalassemia, <i>HBA1, HBA2</i> ●	Alport Syndrome (COL4A3-related), COL4A3
Alport Syndrome, X-Linked, COL4A5	Alstrom Syndrome, ALMS1	Andermann Syndrome, SLC12A6
Argininosuccinate Lyase Deficiency, ASL	Aromatase Deficiency, CYP19A1	Arthrogryposis Mental Retardation Seizures, SLC35A3
Asparagine Synthetase Deficiency, ASNS	Aspartylglycosaminuria, AGA	Ataxia with Vitamin E Deficiency, TTPA
Ataxia-Telangiectasia, ATM	Autoimmune Polyglandular Syndrome, Type 1, AIRE	Autosomal Recessive Polycystic Kidney Disease, PKHD1
Autosomal Recessive Spastic Ataxia of Charlevoix- Saguenay, SACS	Bardet-Biedl Syndrome (BBS1-related), BBS1	Bardet Biedl syndrome (BBS12-related), BBS12
Bare Lymphocyte Syndrome (CIITA-related), CIITA	Bartter Syndrome (BSND-related), BSND	Batten Disease (CLN3-related), CLN3
Beta Thalassemia, <i>HBB</i> ●	Biotinidase Deficiency, BTD	Bloom Syndrome, <i>BLM</i> ◆
Canavan Disease, ASPA ◆	Carnitine Palmitoyltransferase IA Deficiency, CPT1A	Carnitine Palmitoyltransferase II Deficiency, CPT2
Carpenter Syndrome, RAB23	Cartilage-Hair Hypoplasia, RMRP	Cerebrotendinous Xanthomatosis, CYP27A1
Choreacanthocytosis, VPS13A	Choroideremia, X-Linked, CHM	Chronic Granulomatous Disease, X-Linked, CYBB
Citrin Deficiency, SLC25A13	Citrullinemia, Type 1, ASS1	Combined Malonic and Methylmalonic Aciduria, ACSF3
Combined Oxidative Phosphorylation Deficiency 1, <i>GFM1</i>	Combined Oxidative Phosphorylation Deficiency 3, <i>TSFM</i>	Combined Pituitary Hormone Deficiency 2, PROP1
Congenital Disorder of Glycosylation, Type 1A (PMM2- related), <i>PMM2</i>	Congenital Disorder of Glycosylation, Type 1B, MPI	Congenital Disorder of Glycosylation Type 1C, ALG6
Congenital Finnish Nephrosis, NPHS1	Congenital Insensitivity to Pain with Anhidrosis, NTRK1	Congenital Myasthenic Syndrome (CHRNE-related), CHRNE
Congenital Myasthenic Syndrome (RAPSN-related), RAPSN	Congenital Neutropenia (HAX1-related), HAX1	Congenital Neutropenia (VPS45-related), VPS45
Corneal Dystrophy and Perceptive Deafness, SLC4A11	Corticosterone Methyloxidase Deficiency, CYP11B2	CRB1-related Retinal Dystrophies, CRB1
Creatine Transporter Defect [Cerebral Creatine Deficiency Syndrome 1] <i>X-Linked, SLC6A8</i>	Crigler Najjar syndrome, Type I, <i>UGT1A1</i>	Cystic Fibrosis, <i>CFTR</i> ●
Cystinosis, CTNS	D-Bifunctional Protein Deficiency, HSD17B4	Deafness, Autosomal Recessive 77, LOXHD1
Duchenne Muscular Dystrophy, <i>X-linked</i> , <i>DMD</i> ●	Dystrophic Epidermolysis Bullosa (COL7A1-related), COL7A1	Ehlers-Danlos Syndrome, Type VIIC, ADAMTS2
Emery-Dreifuss Muscular Dystrophy 1, X-Linked, EMD	Enhanced S-Cone Syndrome, NR2E3	Ethylmalonic Encephalopathy, ETHE1
Fabry Disease, X-Linked, GLA	Factor IX Deficiency, X-Linked, F9	Factor V Leiden Thrombophilia, F5
Factor XI Deficiency, F11	Familial Dysautonomia, <i>IKBKAP</i> ◆	Familial Hypercholesterolemia (LDLR-related), LDLR
Familial Mediterranean Fever, MEFV	Familial Nephrogenic Diabetes Insipidus (AQP2- related), AQP2	Fanconi Anemia, Type G, <i>FANCG</i>
Fanconi Anemia, Type C, <i>FANCC</i> ◆	Fragile X Syndrome, <i>X-Linked</i> , <i>FMR1</i> ●	Galactokinase Deficiency [Galactosemia, Type II], GALK1
Galactosemia, <i>GALT</i> ◆	Gaucher Disease, GBA ◆	Glutaric Acidemia, Type 1, GCDH
Glutaric Acidemia, Type 2A, <i>ETFA</i>	Glycine Encephalopathy (GLDC-related), GLDC	Glycine Encephalopathy (AMT-related), AMT
Glycogen Storage Disease, Type 1A, G6PC	Glycogen Storage Disease, Type 1B, SLC37A4	Glycogen Storage Disease, Type 2 [Pompe Disease], GAA
Glycogen Storage Disease, Type 3, AGL	Glycogen Storage Disease, Type 4, GBE1	Glycogen Storage Disease, Type 5 [McArdle Disease], PYGM
Glycogen Storage Disease, Type 7, PFKM	GRACILE Syndrome, BCS1L	Hemochromatosis, Type 2A, <i>HFE2</i>
Hemochromatosis, Type 3 (TFR2-related), TFR2	Hereditary Fructose Intolerance, ALDOB	Hermansky-Pudlak Syndrome (HPS1-related), HPS1
Hermansky-Pudlak Syndrome (HPS3-related), HPS3	Holocarboxylase Synthetase Deficiency, HLCS	Homocystinuria (CBS-related), CBS
Homocystinuria, Type cblE, MTRR	Hydrolethalus Syndrome, HYLS1	Hypohidrotic Ectodermal Dysplasia, X-Linked, EDA

Inclusion Body Myopathy Type 2, GNE

Hypophosphatasia (ALPL-related), ALPL

Isovaleric Acidemia, *IVD*

Joubert Syndrome, Type 2, TMEM216	Junctional Epidermolysis Bullosa, Herlitz type, <i>LAMC2</i>	Juvenile Retinoschisis, X-Linked, RS1	
	Lamellar Ichthyosis, Type 1, TGM1	Leber Congenital Amaurosis (LCA5-related), LCA5	
Krabbe Disease, GALC	Lamellar Ichthyosis, Type I, TGMT		
Leber Congenital Amaurosis, Type CEP290, <i>CEP290</i>	Leigh Syndrome, French-Canadian Type, <i>LRPPRC</i>	Leukoencephalopathy with Vanishing White Matter, EIF2B5	
Leydig Cell Hypoplasia [Luteinizing Hormone Resistance], <i>LHCGR</i>	Limb-Girdle Muscular Dystrophy, Type 2A, CAPN3	Limb-Girdle Muscular Dystrophy, Type 2B, <i>DYSF</i>	
Limb-Girdle Muscular Dystrophy, Type 2C, SGCG	Limb-Girdle Muscular Dystrophy, Type 2D, SGCA	Limb-Girdle Muscular Dystrophy, Type 2E, SGCB	
Lipoamide Dehydrogenase Deficiency [Maple Syrup Urine Disease, Type 3], <i>DLD</i>	Lipoid Adrenal Hyperplasia, STAR	Lipoprotein Lipase Deficiency, LPL	
Long Chain 3-Hydroxyacyl-CoA Dehydrogenase Deficiency, <i>HADHA</i>	Lysinuric Protein Intolerance, SLC7A7	Maple Syrup Urine Disease, Type 1B, BCKDHB	
Meckel-Gruber Syndrome, Type 1, MKS1	Medium Chain Acyl-CoA Dehydrogenase Deficiency, ACADM ◆	Megalencephalic Leukoencephalopathy with Subcortical Cysts, <i>MLC1</i>	
Metachromatic Leukodystrophy (ARSA-related), ARSA	Metachromatic Leukodystrophy (PSAP-related) PSAP	Methylmalonic Aciduria (MMAA-related), MMAA	
Methylmalonic Aciduria (MMAB-related), MMAB	Methylmalonic Aciduria and Homocystinuria, Type cblC, <i>MMACHC</i>	Methylmalonic Aciduria and Homocystinuria, Type cbID, <i>MMADHC</i>	
Methylmalonic Aciduria, Type mut(0), MMUT	Microphthalmia/Anophthalmia (VSX2-related), VSX2	Mitochondrial Complex 1 Deficiency (ACAD9-related), ACAD9	
Mitochondrial Complex 1 Deficiency (NDUFAF5- related), <i>NDUFAF5</i>	Mitochondrial Complex 1 Deficiency (NDUFS6-related), NDUFS6	Mitochondrial Myopathy and Sideroblastic Anemia (MLASA1), <i>PUS1</i>	
Mucolipidosis II/III, GNPTAB	Mucolipidosis III Gamma, GNPTG	Mucolipidosis, Type IV, MCOLN1 ◆	
Mucopolysaccharidosis, Type II [Hunter Syndrome], X-Linked, <i>IDS</i>	Mucopolysaccharidosis, Type IIIB [Sanfilippo B], NAGLU	Mucopolysaccharidosis, Type IIIC [Sanfilippo C], HGSNAT	
Mucopolysaccharidosis IIID [Sanfilippo D], GNS	Mucopolysaccharidosis, Type IX, HYAL1	Multiple Sulfatase Deficiency, SUMF1	
Myoneurogastrointestinal Encephalopathy (MNGIE), TYMP	Myotubular Myopathy, X-Linked, MTM1	N-acetylglutamate Synthase Deficiency, NAGS	
Navajo Neurohepatopathy [MPV17-related Hepatocerebral Mitochondrial DNA Depletion Syndrome], MPV17	Neurological Ceroid Lipofuscinosis, TPP1-related, TPP1	Neuronal Ceroid Lipofuscinosis (MFSD8-related), MFSD8	
Neuronal Ceroid Lipofuscinosis (CLN5-related), CLN5	Neuronal Ceroid Lipofuscinosis (CLN6-related), CLN6	Neuronal Ceroid Lipofuscinosis (CLN8-related), CLN8	
Neuronal Ceroid Lipofuscinosis (PPT1-related), PPT1	Niemann-Pick Disease, Types A/B, SMPD1 ◆	Niemann-Pick Disease, Type C1/D, NPC1	
Niemann-Pick Disease, Type C2, NPC2	Nijmegen Breakage Syndrome, <i>NBN</i>	Non-Syndromic Hearing Loss (GJB2-related, GJB6-related), <i>GJB2, GJB6</i>	
Odonto-Onycho-Dermal Dysplasia / Schopf-Schulz- Passarge Syndrome, <i>WNT10A</i>	Omenn Syndrome, RAG2-related, RAG2	Ornithine Aminotransferase Deficiency, <i>OAT</i>	
Ornithine Transcarbamylase Deficiency, <i>OTC</i>	Ornithine Translocase Deficiency [Hyperornithinemia- Hyperammonemia-Homocitrullinuria (HHH) Syndrome], <i>SLC25A15</i>	Pendred Syndrome, <i>SLC26A4</i>	
Peroxisome Biogenesis Disorders Zellweger Syndrome Spectrum (PEX1-related), <i>PEX1</i>	Peroxisome Biogenesis Disorders Zellweger Syndrome Spectrum (PEX2-related), <i>PEX2</i>	Phenylketonurea, <i>PAH</i> ◆	
Pituitary Hormone Deficiency, Combined 3, <i>LHX3</i>	Pontocerebellar Hypoplasia, RARS2-related, RARS2	Pontocerebellar Hypoplasia, Type 1A, VRK1	
Pontocerebellar Hypoplasia, Type 2D, SEPSECS	Pontocerebellar Hypoplasia, Type 2E, VPS53	Primary Ciliary Dyskinesia (DNAH5-related), <i>DNAH5</i>	
Primary Ciliary Dyskinesia, DNAI1-related, <i>DNAI1</i>	Primary Ciliary Dyskinesia, DNAI2-related, DNAI2	Primary Hyperoxaluria, Type 1, AGXT	
Primary Hyperoxaluria, Type 2, GRHPR	Primary Hyperoxaluria, Type 3, HOGA1	Pycnodysostosis, CTSK	
Pyruvate Dehydrogenase Deficiency (PDHB-related), PDHB	Pyruvate Dehydrogenase Deficiency, X-Linked, PDHA1	Renal Tubular Acidosis and Deafness (ATP6V1B1- related), ATP6V1B	
Retinal Dystrophy (RLBP1-related) [Bothnia Retinal Dystrophy], <i>RLBP1</i>	Retinitis Pigmentosa 59 (DHDDS-related), <i>DHDDS</i>	Retinitis Pigmentosa 25 (EYS-related), EYS	
Retinitis Pigmentosa 26, CERKL	Retinitis Pigmentosa 28, FAM161A	Retinitis Pigmentosa, X-linked, RPGR	
Rhizomelic Chondrodysplasia Punctata, Type 1, <i>PEX7</i>	Rhizomelic Chondrodysplasia Punctata, Type 3, AGPS	Roberts Syndrome, ESCO2	
Salla Disease, <i>SLC17A5</i>	Sandhoff Disease, <i>HEXB</i>	Schimke Immunoosseous Dysplasia, SMARCAL1	
Segawa Syndrome, (TH-related), <i>TH</i>	Severe Combined Immunodeficiency, Type Athabaskan, <i>DCLRE1C</i>	Severe Combined Immunodeficiency, X-Linked, IL2RG	
Sickle-Cell Disease, <i>HBB</i> ●	Sjögren-Larsson Syndrome, <i>ALDH3A2</i>	Smith-Lemli-Opitz Syndrome, DHCR7 ◆	
Spinal Muscular Atrophy, <i>SMN1, SMN2</i> ●	Steroid-Resistant Nephrotic Syndrome, NPHS2	Stuve-Wiedemann Syndrome, <i>LIFR</i>	
Tay-Sachs Disease, <i>HEXA</i> ◆	Tyrosinemia, Type 1, <i>FAH</i>	Usher Syndrome, Type 1C, <i>USH1C</i>	
Usher Syndrome, Type 1F, PCDH15	Usher Syndrome, Type 2A, <i>USH2A</i>	Usher Syndrome, Type 3, <i>CLRN1</i>	
Wilson Disease, ATP7B	Wolman Disease, <i>LIPA</i>	Zellweger Spectrum Disorders, (PEX6-related), PEX6	
Zellweger Spectrum Disorders (PEX10-related), PEX10			
● AVAILABLE AS FOCUS PANELS AND AS PART OF THE CORE PANEL ◆ INCLUDED IN THE CORE PANEL			











