



CONDITION		IAL E	۵		ENING			ANEL			
	GENE	NOSON NOSON NESSEN	ECESSIVE X-LINKED		ENDATIONS		AVAIL				
	52.112	AUTOSOMAL RECESSIVE	I7-X	ACOG*	ACMG	H 4	H14	H27	H106	H274	H421
17-Beta Hydroxysteroid Dehydrogenase 3 Deficiency	HSD17B3	•									٠
3-Beta-Hydroxysteroid Dehydrogenase Type II Deficiency	HSD3B2 HMGCL	•								•	•
3-Hydroxy-3-Methylglutaryl-Coenzyme A Lyase Deficiency 3-Hydroxyacyl-CoA Dehydrogenase Deficiency	HADH									•	•
3-Methylcrotonyl-CoA Carboxylase 1 Deficiency	MCCC1										
3-Methylcrotonyl-CoA Carboxylase 2 Deficiency	MCCC2									•	•
3-Phosphoglycerate Dehydrogenase Deficiency	PHGDH	•							•	•	•
6-Pyruvoyl-Tetrahydropterin Synthase (PTPS) Deficiency	PTS	•								•	•
Abetalipoproteinemia	MTTP	•							٠	•	•
Achondrogenesis, Type 1B	SLC26A2	•								•	•
Achromatopsia, CNGB3-Related	CNGB3 SLC39A4	•								•	•
Acrodermatitis Enteropathica Action Myoclonus–Renal Failure (AMRF) Syndrome	SCARB2									•	
Acute Infantile Liver Failure, TRMU-Related	TRMU								•		•
Acyl-CoA Oxidase I Deficiency	ACOX1									•	
Adrenal Hypoplasia Congenita, X-Linked	NR0B1		•								•
Adrenoleukodystrophy, X-Linked	ABCD1		•						•	•	•
Agammaglobulinemia, X-Linked	BTK		•								•
Aicardi-Goutières Syndrome	SAMHD1	•								•	٠
Aicardi-Goutières Syndrome, RNASEH2A-Related	RNASEH2A	•									•
Aicardi-Goutières Syndrome, RNASEH2B-Related	RNASEH2B	•									•
Aicardi-Goutières Syndrome, RNASEH2C-Related Alpha-1 Antitrypsin Deficiency	RNASEH2C SERPINA1	•									•
Alpha-Mannosidosis	MAN2B1	-									
Alpha-Thalassemia	HBA1/HBA2	•		0							
Alpha-Thalassemia Intellectual Disability Syndrome	ATRX		•							•	•
Alport Syndrome, COL4A3-Related	COL4A3	•							•	•	•
Alport Syndrome, COL4A4-Related	COL4A4	•								•	•
Alport Syndrome, X-Linked	COL4A5		•							•	•
Alstrom Syndrome	ALMS1	•								•	•
Amish Infantile Epilepsy Syndrome	ST3GAL5	•									•
Andermann Syndrome	SLC12A6 ARG1	•								•	•
Argininemia Argininosuccinate Lyase Deficiency	ASL	•								•	•
Aromatase Deficiency	CYP19A1									•	
Arts Syndrome	PRPS1		•								•
Asparagine Synthetase Deficiency	ASNS	•							•	•	•
Aspartylglycosaminuria	AGA	•								•	•
Ataxia with Vitamin E Deficiency	TTPA	•								•	•
Ataxia-Telangiectasia	ATM	•							•	•	•
Ataxia-Telangiectasia-Like Disorder 1	MRE11	•									•
Autism Spectrum, Epilepsy and Arthrogryposis	SLC35A3	•							•	•	•
Autoimmune Polyglandular Syndrome, Type 1 Autosomal Recessive Spastic Ataxia of Charlevoix-Saguenay	AIRE SACS	•							•	•	•
Bardet-Biedl Syndrome, BBS1-Related	BBS1									•	•
Bardet-Biedl Syndrome, BBS2-Related	BBS2	•							•	•	•
Bardet-Biedl Syndrome, BBS4-Related	BBS4	•									
Bardet-Biedl Syndrome, BBS7-Related	BBS7	•									•
Bardet-Biedl Syndrome, BBS9-Related	BBS9	•									•
Bardet-Biedl Syndrome, BBS10-Related	BBS10	•								•	•
Bardet-Biedl Syndrome, BBS12-Related	BBS12	•								•	٠
Bardet-Biedl Syndrome, TTC8-Related	TTC8	•									•
Bare Lymphocyte Syndrome, CIITA-Related Barth Syndrome	CIITA TAZ	•								•	•
Bartter Syndrome, BSND-Related	BSND		•								•
Batten Disease, CLN3-Related	CLN3									•	•
Bernard-Soulier Syndrome, Type A1/A2	GP1BA										
Bernard-Soulier Syndrome, Type C	GP9	•									•
Beta-Hemoglobinopathies	HBB			0			•	•	•	•	
Beta-Ureidopropionase Deficiency	UPB1	•									•
Bilateral Frontoparietal Polymicrogyria	GPR56	•								•	•
Biotinidase Deficiency	BTD	•								•	•
Bloom Syndrome	BLM ASPA	•		٥	0			•	•	•	•
Canavan Disease Carbamoyl Phosphate Synthetase I Deficiency	CPS1	•		0	0		•	•	•		•
Carnitine Deficiency	SLC22A5	•								•	•
Carnitine Palmitoyltransferase IA Deficiency	CPT1A									•	
Carnitine Palmitoyltransferase II Deficiency	CPT2								•	•	•
Carnitine-Acylcarnitine Translocase Deficiency	SLC25A20	•									•
Carpenter Syndrome	RAB23	•								•	•
Cartilage-Hair Hypoplasia	RMRP	•								•	•
Cerebrotendinous Xanthomatosis	CYP27A1	•							•	•	•
Charcot-Marie-Tooth Disease with Deafness, X-Linked	GJB1		•							•	•
Charcot-Marie-Tooth Disease, Type 4D	NDRG1	•								•	•
Chediak-Higashi Syndrome	LYST VPS13A	•									٠
										•	•
Choreideremia Choreideremia		•									
Choroideremia Chronic Granulomatous Disease, CYBA-Related	CHM CYBA	•	•						•	٠	•





		SCREENING							PANEL					
CONDITION	OFNE	SOMA	X-LINKED		ENDATIONS	AVAILABILITY								
CONDITION	GENE	AUTOSOMAL RECESSIVE	X-LIN	ACOG*	ACMG	H	H14	H27	H106	H274	H421			
Ciliopathies, RPGRIP1L-Related	RPGRIP1L	•								•	•			
Citrin Deficiency	SLC25A13	•								•	•			
Citrullinemia, Type 1	ASS1	•						•	•	•	•			
CLN10 Disease Cohen Syndrome	CTSD VPS13B									•	•			
Combined Malonic and Methylmalonic Aciduria	ACSF3													
Combined Oxidative Phosphorylation Deficiency 1	GFM1	•								•	•			
Combined Oxidative Phosphorylation Deficiency 3	TSFM									•	•			
Combined Pituitary Hormone Deficiency-2	PROP1	•								•	•			
Congenital Adrenal Hyperplasia, 11-Beta-Hydroxylase Deficiency	CYP11B1	•									•			
Congenital Adrenal Hyperplasia, 17-Alpha-Hydroxylase Deficiency	CYP17A1	•								•	•			
Congenital Adrenal Hyperplasia, 21-Hydroxylase Deficiency	CYP21A2	•									٠			
Congenital Amegakaryocytic Thrombocytopenia	MPL	•							•	•	•			
Congenital Disorder of Glycosylation, Type 1A, PMM2-Related	PMM2	•							•	•	•			
Congenital Disorder of Glycosylation, Type 1B Congenital Disorder of Glycosylation, Type 1C	MPI ALG6	•								•	•			
Congenital Finnish Nephrosis	NPHS1	•								•	•			
Congenital Hyperinsulinism, KCNJ11-Related	KCNJ11									•				
Congenital Insensitivity to Pain with Anhidrosis (CIPA)	NTRK1	•							•	•	•			
Congenital Myasthenic Syndrome, CHAT-Related	CHAT										•			
Congenital Myasthenic Syndrome, CHRNE-Related	CHRNE	•								•	•			
Congenital Myasthenic Syndrome, COLQ-Related	COLQ													
Congenital Myasthenic Syndrome, DOK7-Related	DOK7	•									•			
Congenital Myasthenic Syndrome, RAPSN-Related	RAPSN	•							•	•	•			
Congenital Nephrotic Syndrome, PLCE1-Related	PLCE1	•									•			
Congenital Neutropenia, HAX1-Related	HAX1	•								•	•			
Congenital Neutropenia, VPS45-Related	VPS45	•								•	•			
Corneal Dystrophy and Perceptive Deafness	SLC4A11	•								•	•			
Corticosterone Methyloxidase Deficiency	CYP11B2	•							•	•	•			
Costeff Syndrome (3-Methylglutaconic Aciduria, Type 3)	OPA3	•							•	•	•			
Cowchock Syndrome	AIFM1		•								•			
CRB1-Related Retinal Dystrophies	CRB1	•								•	•			
Creatine Transporter Defect (Cerebral Creatine Deficiency Syndrome 1, X-Linked)	SLC6A8 CFTR		•	0	0	_				•	•			
Cystic Fibrosis Cystinosis	CTNS			Ü			•	·			•			
Cytochrome C Oxidase Deficiency, PET100-Related	PET100									•				
D-Bifunctional Protein Deficiency	HSD17B4	•								•	•			
Deafness, Autosomal Recessive 77	LOXHD1									•	•			
Dent Disease, Type 1	CLCN5		•								•			
Dent Disease, Type 2 / Lowe Syndrome	OCRL		•								•			
Dihydropyrimidine Dehydrogenase Deficiency	DPYD	•									•			
Duchenne/Becker Muscular Dystrophy	DMD		•			•	•	•	•	•	•			
Dyskeratosis Congenita, DKC1-Related	DKC1		•								•			
Dyskeratosis Congenita, RTEL1-Related	RTEL1	•							•	•	•			
Dystrophic Epidermolysis Bullosa, COL7A1-Related	COL7A1	•								•	•			
Ehlers-Danlos Syndrome, Type VIIC	ADAMTS2	•							•	•	•			
Ellis-van Creveld Syndrome, EVC-Related	EVC	•								•	•			
Ellis-van Creveld Syndrome, EVC2-Related	EVC2	•									•			
Emery-Dreifuss Muscular Dystrophy 1, X-Linked	EMD		•							•	•			
Enhanced S-Cone Syndrome	NR2E3 CANT1	•							•	•	•			
Epiphyseal Dysplasia, Multiple, 7 / Desbuquois Dysplasia 1 ERCC6-Related Disorders	ERCC6													
ERCC8-Related Disorders ERCC8-Related Disorders	ERCC8	•									•			
Ethylmalonic Encephalopathy	ETHE1										•			
Fabry Disease	GLA		•							٠	•			
Factor IX Deficiency	F9		•							•	•			
Factor XI Deficiency	F11	•							•	•	•			
Familial Dysautonomia	IKBKAP	•		0	0		•	•	•	•	•			
Familial Hemophagocytic Lymphohistiocytosis, PRF1-Related	PRF1	•									•			
Familial Hemophagocytic Lymphohistiocytosis, STX11-Related	STX11	•									•			
Familial Hemophagocytic Lymphohistiocytosis, STXBP2-Related	STXBP2	•									•			
Familial Hypercholesterolemia, LDLRAP1-Related	LDLRAP1	•								•	•			
Familial Hypercholesterolemia, LDLR-Related	LDLR	•		0					•	•	•			
Familial Hyperinsulinism, ABCC8-Related Familial Mediterranean Fever	ABCC8	•		O .					•	•	•			
Familial Mediterranean Fever Familial Nephrogenic Diabetes Insipidus, AQP2-Related	MEFV AOP2								•					
Fancinia Nephrogenic Diabetes Insipidus, AQF2-Related Fanconi Anemia, Group A	AQP2 FANCA	•		0							•			
Fanconi Anemia, Group B	FANCB										•			
Fanconi Anemia, Group C	FANCC	•		0	•			•	•		•			
Fanconi Anemia, Group D2	FANCD2										•			
Fanconi Anemia, Group E	FANCE	•									•			
Fanconi Anemia, Group F	FANCF										•			
Fanconi Anemia, Group G	FANCG	•		0						•	•			
Fanconi Anemia, Group I	FANCI	•									•			
Fanconi Anemia, Group L	FANCL	•									•			
Farber Lipogranulomatosis	ASAH1	•									•			
Fragile X Syndrome	FMR1		•	0		•	•	•	•	•	•			
Fumarase Deficiency	FH	•								•	•			
GABA-Transaminase Deficiency	ABAT	•									•			



CONDITION		OMAL	ΚED		ENING ENDATIONS			PANEL AVAILABILITY						
	GENE	AUTOSOMAL RECESSIVE	X-LINKED	4COG*	ACMG	¥	H14	H27	H106	H274	H421			
Galactokinase Deficiency (Galactosemia, Type II)	GALK1	•								•	•			
Galactosemia	GALT	•					•	•	•	•	•			
Galactosialidosis	CTSA	•									•			
Gaucher Disease	GBA	•			0		•	•	•	•	•			
Gitelman Syndrome	SLC12A3	•								•	•			
Glucose-6-Phosphate Dehydrogenase Deficiency Glutaric Acidemia, Type 1	G6PD GCDH		•								•			
Glutaric Acidemia, Type 1 Glutaric Acidemia, Type 2A	ETFA	•								•	•			
Glutaric Acidemia, Type 2B	ETFB									-	•			
Glutaric Acidemia, Type 2C	ETFDH	•								•	•			
Glycine Encephalopathy, AMT-Related	AMT	•								•	•			
Glycine Encephalopathy, GLDC-Related	GLDC	•								•	•			
Glycogen Storage Disease, Type 1A	G6PC	•		0				•	•	•	•			
Glycogen Storage Disease, Type 1B	SLC37A4	•		0						•	•			
Glycogen Storage Disease, Type 2 (Pompe Disease)	GAA	•							•	•	•			
Glycogen Storage Disease, Type 3 Glycogen Storage Disease, Type 4	AGL GBE1	•							•	•	•			
Glycogen Storage Disease, Type 4 Glycogen Storage Disease, Type 5 (McArdle Disease)	PYGM	•								•	•			
Glycogen Storage Disease, Type 7 (McArdie Disease)	PFKM													
GRACILE Syndrome	BCS1L	•								•	•			
Guanidinoacetate Methyltransferase Deficiency	GAMT	•								•	•			
Harlequin Ichthyosis	ABCA12	•									•			
Hemochromatosis, Type 2A	HFE2	•								•	•			
Hemochromatosis, Type 3, TFR2-Related	TFR2	•								•	•			
Hepatocerebral Mitochondrial DNA Depletion Syndrome, MPV17-Related	MPV17	•								•	•			
Hereditary Fructose Intolerance	ALDOB	•								•	•			
Hereditary Spastic Paraparesis, Type 49	TECPR2	•							•	•	•			
Hermansky-Pudlak Syndrome, AP3B1-Related	AP3B1	•									•			
Hermansky-Pudlak Syndrome, HPS1-Related Hermansky-Pudlak Syndrome, HPS3-Related	HPS1 HPS3	•								•	•			
Hermansky-Pudlak Syndrome, HPS4-Related	HPS4								•	•				
Heterotaxy Syndrome, ZIC3-Related	ZIC3										•			
Holocarboxylase Synthetase Deficiency	HLCS													
Homocystinuria due to Deficiency of MTHFR	MTHFR	•							•	•	•			
Homocystinuria, CBS-Related	CBS	•								•	•			
Homocystinuria, Type cblE	MTRR	•								•	•			
Hydrolethalus Syndrome	HYLS1	•								٠	•			
Hyper IgM Syndrome, X-Linked	CD40LG		•								•			
Hyperornithinemia-Hyperammonemia-Homocitrullinuria (HHH Syndrome)	SLC25A15	•								٠	•			
Hyperphosphatemic Familial Tumoral Calcinosis, GALNT3-Related	GALNT3	•									•			
Hypohidrotic Ectodermal Dysplasia, X-Linked Hypophosphatasia, ALPL-Related	EDA ALPL		•							•	•			
Immune Dysregulation, Polyendocrinopathy, Enteropathy, X-Linked (IPEX) Syndrome	FOXP3									•				
Inclusion Body Myopathy 2	GNE	•							•	•	•			
Infantile Cerebral and Cerebellar Atrophy	MED17	•							•	•	•			
Infantile Nephronophthisis	INVS	•									•			
Infantile Neuroaxonal Dystrophy	PLA2G6	•									•			
Infantile Spinal Muscular Atrophy, X-Linked	UBA1		•								•			
Isolated Lissencephaly Sequence / Subcortical Band Heterotopia	DCX		•								•			
Isovaleric Acidemia	IVD	•						•	•	•	•			
Johanson-Blizzard Syndrome	UBR1 TMEM216	•		0							•			
Joubert Syndrome 2 / Meckel Syndrome 2 Joubert Syndrome, AHI1-Related	AHI1			0										
Joubert Syndrome, ARL13B-Related	ARL13B			0										
Joubert Syndrome, B9D1-Related	B9D1	•		0							•			
Joubert Syndrome, B9D2-Related	B9D2	•		0							•			
Joubert Syndrome, C2CD3-Related / Orofaciodigital Syndrome 14	C2CD3			0										
Joubert Syndrome, CC2D2A-Related / COACH Syndrome	CC2D2A	•		0							•			
Joubert Syndrome, CEP104-Related	CEP104	•		0							•			
Joubert Syndrome, CEP120-Related / Short-Rib Thoracic Dysplasia13 with	CEP120			0										
or without Polydactyly Joubert Syndrome, CEP41-Related	CEP41			0										
Joubert Syndrome, CEP41-Related Joubert Syndrome, CPLANE1-Related / Orofaciodigital Syndrome 6	CPLANE1	•		0							•			
Joubert Syndrome, CSPP1-Related	CSPP1			0										
Joubert Syndrome, INPP5E-Related	INPP5E			0										
Junctional Epidermolysis Bullosa, LAMA3-Related	LAMA3	•									•			
Junctional Epidermolysis Bullosa, LAMB3-Related	LAMB3	•									•			
Junctional Epidermolysis Bullosa, LAMC2-Related	LAMC2	•									•			
Juvenile Retinoschisis, X-Linked	RS1		•							•	•			
Ketothiolase Deficiency	ACAT1	•								٠	•			
Krabbe Disease	GALC	•								•	•			
L1 Syndrome	L1CAM		•								•			
Lamellar Ichthyosis, Type 1 Leber Congenital Amaurosis 2	TGM1 RPE65	•									•			
Leber Congenital Amaurosis 2 Leber Congenital Amaurosis, IQCB1-Related / Senior-Loken Syndrome 5	IQCB1	•							•	•	•			
Leber Congenital Amaurosis, Type CEP290	CEP290													
Leber Congenital Amaurosis, Type CCF290 Leber Congenital Amaurosis, Type LCA5	LCA5									•	•			
Leber Congenital Amaurosis, Type RDH12	RDH12									•				
Leigh Syndrome, French-Canadian Type	LRPPRC	•								•	•			
Lesch-Nyhan Syndrome	HPRT1													



CONDITION		AUTOSOMAL RECESSIVE	ED		ENING ENDATIONS				ANEL LABILI	TY											
	GENE	GENE	GENE	GENE	GENE	GENE	GENE	GENE	GENE	GENE	GENE	OSO	X-LINKED								
		AUT	×	ACOG'	ACMG	H4	H14	H27	H106	H274	H421										
Lethal Congenital Contracture Syndrome 1	GLE1	•								٠	•										
Leukoencephalopathy with Vanishing White Matter	EIF2B5	•								•	•										
Limb-Girdle Muscular Dystrophy, Type 2A	CAPN3	•								•	•										
Limb-Girdle Muscular Dystrophy, Type 2B	DYSF	•							•	•	•										
Limb-Girdle Muscular Dystrophy, Type 2C Limb-Girdle Muscular Dystrophy, Type 2D	SGCG SGCA	•								•	•										
Limb-Girdle Muscular Dystrophy, Type 2B	SGCB									•	•										
Limb-Girdle Muscular Dystrophy, Type 2F	SGCD																				
Limb-Girdle Muscular Dystrophy, Type 2I	FKRP									•	•										
Lipoamide Dehydrogenase Deficiency (Dihydrolipoamide Dehydrogenase Deficiency)	DLD	•							•	•	•										
Lipoid Adrenal Hyperplasia	STAR	•								•	•										
Lipoprotein Lipase Deficiency	LPL	•								•	•										
Long Chain 3-Hydroxyacyl-CoA Dehydrogenase Deficiency	HADHA	•								•	•										
Lysinuric Protein Intolerance	SLC7A7	•								•	•										
Malonyl-CoA Decarboxylase Deficiency	MLYCD	•		_							•										
Maple Syrup Urine Disease, Type 1A	BCKDHA	•		0					-	•	•										
Maple Syrup Urine Disease, Type 1B Maple Syrup Urine Disease, Type 2	BCKDHB DBT			0							•										
McKusick-Kaufman Syndrome	MKKS	•									•										
Meckel Syndrome 7 / Nephronophthisis 3	NPHP3	•																			
Meckel-Gruber Syndrome, Type 1	MKS1									•	•										
Medium Chain Acyl-CoA Dehydrogenase Deficiency	ACADM			0			•														
MEDNIK Syndrome	AP1S1										•										
Megalencephalic Leukoencephalopathy with Subcortical Cysts	MLC1	•							•	•	•										
Menkes Syndrome	ATP7A		•							•	•										
Merosin-Deficient Muscular Dystrophy	LAMA2	•									•										
Metabolic Encephalopathy and Arrhythmias, TANGO2-Related	TANGO2	•									•										
Metachromatic Leukodystrophy, ARSA-Related	ARSA	•							•	•	•										
Metachromatic Leukodystrophy, PSAP-Related	PSAP	•								•	•										
Methylmalonic Aciduria and Homocystinuria, Type cblC	MMACHC	•						•	•	•	•										
Methylmalonic Aciduria and Homocystinuria, Type cblD	MMADHC	•								•	•										
Methylmalonic Aciduria, MMAA-Related	MMAA	•								•	•										
Methylmalonic Aciduria, MMAB-Related Methylmalonic Aciduria, Type mut(0)	MMAB MUT	•								•	•										
Microphthalmia/Anophthalmia, VSX2-Related	VSX2	-								•											
Mitochondrial Complex 1 Deficiency, ACAD9-Related	ACAD9										•										
Mitochondrial Complex 1 Deficiency, NDUFAF5-Related	NDUFAF5								•	•	•										
Mitochondrial Complex 1 Deficiency, NDUFS6-Related	NDUFS6									•											
Mitochondrial Complex I Deficiency, Nuclear Type 1	NDUFS4	•									•										
Mitochondrial Complex I Deficiency, Nuclear Type 17	NDUFAF6	•									•										
Mitochondrial Myopathy and Sideroblastic Anemia (MLASA1)	PUS1	•							•	•	•										
Mitochondrial Trifunctional Protein Deficiency, HADHB-Related	HADHB	•									•										
Molybdenum Cofactor Deficiency, Type A	MOCS1	•									•										
Mucolipidosis II/IIIA	GNPTAB	•								•	•										
Mucolipidosis III gamma	GNPTG	•								•	•										
Mucolipidosis, Type IV	MCOLN1	•		0	0			•	•	•	•										
Mucopolysaccharidosis, Type I (Hurler Syndrome)	IDUA	•						•	•	•	•										
Mucopolysaccharidosis, Type II (Hunter Syndrome)	IDS		•							•	•										
Mucopolysaccharidosis, Type IIIA (Sanfilippo A) Mucopolysaccharidosis, Type IIIB (Sanfilippo B)	SGSH NAGLU	•								•											
Mucopolysaccharidosis, Type IIIB (Sanfilippo B) Mucopolysaccharidosis, Type IIIC (Sanfilippo C)	HGSNAT	•								•											
Mucopolysaccharidosis, Type IIIC (Sarfilippo C) Mucopolysaccharidosis, Type IIID (Sanfilippo D)	GNS																				
Mucopolysaccharidosis, Type IVA (Morquio Syndrome)	GALNS	•									•										
Mucopolysaccharidosis, Type IVB / GM1 Gangliosidosis	GLB1																				
Mucopolysaccharidosis, Type IX	HYAL1	•								•	•										
Mucopolysaccharidosis, Type VI (Maroteaux-Lamy)	ARSB	•								•	•										
Mucopolysaccharidosis, Type VII	GUSB	•									•										
Mulibrey Nanism	TRIM37	•									•										
Multiple Pterygium Syndrome, CHRNG-Related / Escobar Syndrome	CHRNG	•									•										
Multiple Sulfatase Deficiency	SUMF1	•							•	•	•										
Muscle-Eye-Brain Disease, POMGNT1-Related	POMGNT1	•								•	•										
Myoneurogastrointestinal Encephalopathy (MNGIE)	TYMP	•							•	•	•										
Myotubular Myopathy, X-Linked	MTM1		•							•	•										
N-acetylglutamate Synthase Deficiency Nemaline Myopathy, NEB-Related	NAGS NEB	•								•	•										
Nephronophthisis 1	NPHP1	•								•											
Neuronal Ceroid Lipofuscinosis, CLN5-Related	CLN5	•								•	•										
Neuronal Ceroid Lipofuscinosis, CLN6-Related	CLN6	•								•	•										
Neuronal Ceroid Lipofuscinosis, CLN8-Related	CLN8									•	•										
Neuronal Ceroid Lipofuscinosis, MFSD8-Related	MFSD8	•								•											
Neuronal Ceroid Lipofuscinosis, PPT1-Related	PPT1									•	•										
Neuronal Ceroid Lipofuscinosis, TPP1-Related	TPP1									•											
Niemann-Pick Disease, Type C1/D	NPC1	•		0						•	•										
Niemann-Pick Disease, Type C2	NPC2	•		0						•	•										
Niemann-Pick Disease, Types A/B	SMPD1	•		0	0			•	•	•	•										
Nijmegen Breakage Syndrome	NBN	•								•	•										
Nonsyndromic Hearing Loss, GJB2-Related	GJB2	•							•	•	•										
Nonsyndromic Hearing Loss, MYO15A-Related	MYO15A	•									٠										
Odonto-Onycho-Dermal Dysplasia / Schopf-Schulz-Passarge Syndrome	WNT10A	•								•	•										



			MAL		SCRE	PANEL								
CONDITION	GENE	AUTOSOMAL RECESSIVE	X-LINKED		ENDATIONS			AVAI	AILABILITY					
CONDITION	SEME		AUTO RECE X-LII	ACOG*	ACMG	H	H14	H27	H106	H274	H421			
Omenn Syndrome, RAG2-Related	RAG2	•							٠	٠	٠			
Ornithine Aminotransferase Deficiency	OAT	•							•	•	•			
Ornithine Transcarbamylase Deficiency Osteopetrosis, Infantile Malignant, TCIRG1-Related	OTC TCIRG1		•							•	•			
Pendred Syndrome	SLC26A4									•				
Perlman Syndrome	DIS3L2										•			
Phenylketonuria	PAH	•							•	•				
Pituitary Hormone Deficiency, Combined 3	LHX3	•								•	•			
POLG-Related Disorders	POLG	•									•			
Polycystic Kidney Disease, Autosomal Recessive	PKHD1	•					•	•	•	•	•			
Pontocerebellar Hypoplasia, EXOSC3-Related	EXOSC3	•									•			
Pontocerebellar Hypoplasia, RARS2-Related Pontocerebellar Hypoplasia, TSEN2-Related	RARS2 TSEN2	•							•	•	•			
Pontocerebellar Hypoplasia, TSEN54-Related	TSEN54													
Pontocerebellar Hypoplasia, Type 1A	VRK1	•								•	•			
Pontocerebellar Hypoplasia, Type 2D	SEPSECS	•							•	•	•			
Pontocerebellar Hypoplasia, VPS53-Related	VPS53	•									•			
Primary Ciliary Dyskinesia, DNAH5-Related	DNAH5	•							•	•	•			
Primary Ciliary Dyskinesia, DNAI1-Related	DNAI1	•							•	•	•			
Primary Ciliary Dyskinesia, DNAI2-Related	DNAI2	•							•	•	•			
Primary Congenital Glaucoma / Peters Anomaly	CYP1B1	•									•			
Primary Hyperoxaluria, Type 1 Primary Hyperoxaluria, Type 2	AGXT GRHPR	•								•	•			
Primary Hyperoxaluria, Type 2 Primary Hyperoxaluria, Type 3	HOGA1													
Progressive Familial Intrahepatic Cholestasis, Type 1 (PFIC1)	ATP8B1													
Progressive Familial Intrahepatic Cholestasis, Type 2 (PFIC2)	ABCB11	•								•	•			
Progressive Familial Intrahepatic Cholestasis, Type 4 (PFIC4)	TJP2	•									•			
Prolidase Deficiency	PEPD	•									•			
Propionic Acidemia, PCCA-Related	PCCA	•								•	•			
Propionic Acidemia, PCCB-Related	PCCB	•								•	•			
Pseudocholinesterase Deficiency	BCHE	•									•			
Pseudoxanthoma Elasticum Pycnodysostosis	ABCC6 CTSK	•									•			
Pyridoxine-Dependent Epilepsy	ALDH7A1									•	•			
Pyruvate Carboxylase Deficiency	PC													
Pyruvate Dehydrogenase Deficiency, PDHB-Related	PDHB	•								•	•			
Pyruvate Dehydrogenase Deficiency, X-Linked	PDHA1		•							•	•			
Refsum Disease, PHYH-Related	PHYH	•									•			
Renal Tubular Acidosis and Deafness, ATP6V1B1-Related	ATP6V1B1	•							•	•	•			
Renal Tubular Acidosis, Proximal, with Ocular Abnormalities and Mental Retardation	SLC4A4	•									•			
Retinitis Pigmentosa 25	EYS	•							•	•	•			
Retinitis Pigmentosa 26 Retinitis Pigmentosa 28	CERKL FAM161A	•							•	•	•			
Retinitis Pigmentosa 20 Retinitis Pigmentosa 59	DHDDS								•	•	•			
Rhizomelic Chondrodysplasia Punctata, Type 1	PEX7	•						•	•	•				
Rhizomelic Chondrodysplasia Punctata, Type 2	GNPAT	•									•			
Rhizomelic Chondrodysplasia Punctata, Type 3	AGPS	•								•	•			
Roberts Syndrome	ESCO2	•								•	•			
Salla Disease	SLC17A5	•								•	•			
Sandhoff Disease	HEXB	•								•	•			
Schimke Immunoosseous Dysplasia	SMARCAL1	•								•	•			
Segawa Syndrome, TH-Related	TH NPHP4	•								•	•			
Senior-Loken Syndrome 4 / Nephronophthisis 4 Severe Combined Immunodeficiency, ADA-Related	ADA	•												
Severe Combined Immunodeficiency, RAG1-Related	RAG1	•												
Severe Combined Immunodeficiency, Type Athabaskan	DCLRE1C	•								•	•			
Severe Combined Immunodeficiency, X-Linked	IL2RG		•							•	•			
Shwachman-Diamond Syndrome, SBDS-Related	SBDS	•									•			
Sialidosis	NEU1	•									•			
Sjögren-Larsson Syndrome	ALDH3A2	•								•	•			
Smith-Lemli-Opitz Syndrome	DHCR7	•		0			•	•	٠	•	•			
Spastic Paraplegia, Type 15 Spastic Tetraplegia, Thin Corpus Callosum, and Progressive Microcaphaly (SPATCCM)	ZFYVE26	•									•			
Spastic Tetraplegia, Thin Corpus Callosum, and Progressive Microcephaly (SPATCCM) Spinal Muscular Atrophy	SLC1A4 SMN1			0	0				•	•	•			
Spinocerebellar Ataxia, Autosomal Recessive 12	WWOX													
Spondylothoracic Dysostosis, MESP2-Related	MESP2	•								•	•			
Steel Syndrome	COL27A1										•			
Steroid-Resistant Nephrotic Syndrome	NPHS2	•								•	•			
Stuve-Wiedemann Syndrome	LIFR	•								•	•			
Tay-Sachs Disease	HEXA	•		0	0		•	•	•	•	•			
Trichohepatoenteric Syndrome, TTC37-Related	TTC37	•									•			
Trichothiodystrophy 1 / Xeroderma Pigmentosum, Group D	ERCC2	•									•			
Triple A Syndrome	AAAS	•									•			
Tyrosinemia, Type 1	FAH	•						•	•	•	•			
Tyrosinemia, Type 2 Usher Syndrome, Type 1B	TAT MYO7A	•									•			
Usher Syndrome, Type 1C	USH1C													
Usher Syndrome, Type 1D	CDH23	•								•				
· ·	PCDH15													



CONDITION		AUTOSOMAL RECESSIVE	X-LINKED		ENING ENDATIONS				ANEL LABILI	ΤΥ	
	GENE	AUTOS	X-LIN	ACOG*	ACMG	H4	H14	H27	H106	H274	H421
Usher Syndrome, Type 1J / Deafness, Autosomal Recessive, 48	CIB2	•									•
Usher Syndrome, Type 2A	USH2A	•							•	•	•
Usher Syndrome, Type 2C	ADGRV1	•									•
Usher Syndrome, Type 3	CLRN1	•		0					•	•	•
Very Long-Chain Acyl-CoA Dehydrogenase Deficiency	ACADVL	•								•	•
Vitamin D Dependent Rickets, Type 1A	CYP27B1	•									•
Walker-Warburg Syndrome, FKTN-Related	FKTN	•							•	•	•
Walker-Warburg Syndrome, ISPD-Related	ISPD	•									•
Walker-Warburg Syndrome, LARGE1-Related	LARGE1	•									•
Walker-Warburg Syndrome, POMT1-Related	POMT1	•									•
Walker-Warburg Syndrome, POMT2-Related	POMT2	•									•
Werner Syndrome	WRN	•									•
Wilson Disease	ATP7B	•							•	•	•
Wiskott-Aldrich Syndrome	WAS		•								•
Wolcott-Rallison Syndrome	EIF2AK3	•									•
Wolman Disease	LIPA	•							•	•	•
Xeroderma Pigmentosum, Group A	XPA	•									•
Xeroderma Pigmentosum, Group C	XPC	•									•
X-Linked Chondrodysplasia Punctata 1	ARSE		•								•
X-Linked Lissencephaly with Abnormal Genitalia	ARX		•								•
Zellweger Spectrum Disorders, PEX1-Related	PEX1	•						•	•	•	•
Zellweger Spectrum Disorders, PEX2-Related	PEX2								•	•	•
Zellweger Spectrum Disorders, PEX6-Related	PEX6	•							•	•	•
Zellweger Spectrum Disorders, PEX10-Related	PEX10	•								•	•
Zellweger Spectrum Disorders, PEX12-Related	PEX12	•									•
Zellweger Spectrum Disorders, PEX26-Related	PEX26	•									•

^{*} Note that ACOG screening recommendations listed here include diseases in ACOG Committee Opinion 690 example expanded carrier screening panel, as well as the diseases listed in ACOG Committee Opinion 691.

