

## Expanded Carrier Screen - Conditions List

Condition	Gene	AUTOSOMAL RECESSIVE	X-LINKED	SCREENING RECOMMENDATIONS	
				ACOG†	ACMG
17-Beta Hydroxysteroid Dehydrogenase 3 Deficiency	<i>HSD17B3</i>	•			
3-Beta-Hydroxysteroid Dehydrogenase Type II Deficiency	<i>HSD3B2</i>	•			
3-Hydroxy-3-Methylglutaryl-Coenzyme A Lyase Deficiency	<i>HMGCL</i>	•			
3-Hydroxyacyl-CoA Dehydrogenase Deficiency	<i>HADH</i>	•			
3-Methylcrotonyl-CoA Carboxylase 1 Deficiency	<i>MCCC1*</i>	•			
3-Methylcrotonyl-CoA Carboxylase 2 Deficiency	<i>MCCC2*</i>	•			0
3-Phosphoglycerate Dehydrogenase Deficiency	<i>PHGDH</i>	•			
5-Alpha-Reductase Deficiency	<i>SRD5A2</i>	•			
6-Pyruvoyl-Tetrahydropterin Synthase (PTPS) Deficiency	<i>PTS</i>	•			
Abetalipoproteinemia	<i>MTTP</i>	•			
Achondrogenesis, Type 1B	<i>SLC26A2</i>	•			0
Achromatopsia, CNGB3-Related	<i>CNGB3</i>	•			0
Acrodermatitis Enteropathica	<i>SLC39A4</i>	•			
Action Myoclonus–Renal Failure (AMRF) Syndrome	<i>SCARB2</i>	•			
Acute Infantile Liver Failure, TRMU-Related	<i>TRMU</i>	•			
Acyl-CoA Oxidase I Deficiency	<i>ACOX1</i>	•			
Adrenal Hypoplasia Congenita, X-Linked	<i>NR0B1</i>		•		0
Adrenoleukodystrophy, X-Linked	<i>ABCD1</i>		•		0
Agammaglobulinemia, X-Linked	<i>BTK</i>		•		
Aicardi-Goutières Syndrome	<i>SAMHD1</i>	•			
Aicardi-Goutières Syndrome, RNASEH2A-Related	<i>RNASEH2A</i>	•			
Aicardi-Goutières Syndrome, RNASEH2B-Related	<i>RNASEH2B</i>	•			0
Aicardi-Goutières Syndrome, RNASEH2C-Related	<i>RNASEH2C</i>	•			
Aicardi-Goutières Syndrome, TREX1-Related	<i>TREX1</i>	•			
Alkaptonuria	<i>HGD*</i>	•			
Alpha-Mannosidosis	<i>MAN2B1</i>	•			
Alpha-Thalassemia	<i>HBA1/HBA2</i>	•		0	0
Alpha-Thalassemia Intellectual Disability Syndrome	<i>ATRX</i>		•		
Alport Syndrome, COL4A3-Related	<i>COL4A3</i>	•			
Alport Syndrome, COL4A4-Related	<i>COL4A4</i>	•			
Alport Syndrome, X-Linked	<i>COL4A5</i>		•		
Alstrom Syndrome	<i>ALMS1</i>	•			
Amish Infantile Epilepsy Syndrome	<i>ST3GAL5</i>	•			
Andermann Syndrome	<i>SLC12A6</i>	•			
Androgen Insensitivity Syndrome	<i>AR</i>		•		
Arginine:Glycine Amidinotransferase Deficiency (Agat Deficiency)	<i>GATM</i>	•			
Argininemia	<i>ARG1</i>	•			
Argininosuccinate Lyase Deficiency	<i>ASL</i>	•			0
Aromatase Deficiency	<i>CYP19A1</i>	•			
Arts Syndrome	<i>PRPS1</i>		•		
Asparagine Synthetase Deficiency	<i>ASNS</i>	•			
Aspartylglycosaminuria	<i>AGA</i>	•			0
Ataxia with Vitamin E Deficiency	<i>TTPA</i>	•			
Ataxia-Telangiectasia	<i>ATM</i>	•			
Ataxia-Telangiectasia-Like Disorder 1	<i>MRE11</i>	•			
Atransferrinemia	<i>TF</i>	•			0
Autism Spectrum, Epilepsy and Arthrogyrosis	<i>SLC35A3</i>	•			
Autoimmune Polyglandular Syndrome, Type 1	<i>AIRE</i>	•			0
Autosomal Recessive Congenital Ichthyosis (ARCI), SLC27A4-Related	<i>SLC27A4</i>	•			
Autosomal Recessive Spastic Ataxia of Charlevoix-Saguenay	<i>SACS</i>	•			
Bardet-Biedl Syndrome, ARL6-Related	<i>ARL6</i>	•			

Condition	Gene	AUTOSOMAL RECESSIVE	X-LINKED	SCREENING RECOMMENDATIONS	
				ACOG†	ACMG
Bardet-Biedl Syndrome, BBS10-Related	<i>BBS10</i>	•			
Bardet-Biedl Syndrome, BBS12-Related	<i>BBS12</i>	•			
Bardet-Biedl Syndrome, BBS1-Related	<i>BBS1</i>	•			0
Bardet-Biedl Syndrome, BBS2-Related	<i>BBS2</i>	•			0
Bardet-Biedl Syndrome, BBS4-Related	<i>BBS4</i>	•			
Bardet-Biedl Syndrome, Bbs5-Related	<i>BBS5</i>	•			
Bardet-Biedl Syndrome, BBS7-Related	<i>BBS7</i>	•			
Bardet-Biedl Syndrome, BBS9-Related	<i>BBS9</i>	•			
Bardet-Biedl Syndrome, TTC8-Related	<i>TTC8</i>	•			
Bare Lymphocyte Syndrome, CIITA-Related	<i>CIITA</i>	•			
Barth Syndrome	<i>TAZ</i>		•		
Bartter Syndrome, BSND-Related	<i>BSND</i>	•			
Bartter Syndrome, KCNJ1-Related	<i>KCNJ1</i>	•			
Bartter Syndrome, SLC12A1-Related	<i>SLC12A1</i>	•			
Batten Disease, CLN3-Related	<i>CLN3</i>	•			
Beta-Hemoglobinopathies	<i>HBB</i>	•		0	0
Beta-Mannosidosis	<i>MANBA</i>	•			
Beta-Ureidopropionase Deficiency	<i>UPB1</i>	•			
Bilateral Frontoparietal Polymicrogyria	<i>GPR56</i>	•			
Biotin-Thiamine-Responsive Basal Ganglia Disease (BTBGD)	<i>SLC19A3</i>	•			0
Bloom Syndrome	<i>BLM</i>	•		0	0
Brittle Cornea Syndrome 1	<i>ZNF469</i>	•			
Brittle Cornea Syndrome 2	<i>PRDM5</i>	•			
Canavan Disease	<i>ASPA</i>	•		0	0
Carbamoyl Phosphate Synthetase I Deficiency	<i>CPS1</i>	•			
Carnitine Deficiency	<i>SLC22A5</i>	•			
Carnitine Palmitoyltransferase IA Deficiency	<i>CPT1A</i>	•			
Carnitine Palmitoyltransferase II Deficiency	<i>CPT2</i>	•			0
Carnitine-Acylcarnitine Translocase Deficiency	<i>SLC25A20</i>	•			
Carpenter Syndrome	<i>RAB23</i>	•			
Cartilage-Hair Hypoplasia	<i>RMRP</i>	•			
Catecholaminergic Polymorphic Ventricular Tachycardia	<i>CASQ2</i>	•			
CD59-Mediated Hemolytic Anemia	<i>CD59</i>	•			
CEP152-Related Microcephaly	<i>CEP152</i>	•			
Cerebral Dysgenesis, Neuropathy, Ichthyosis, And Palmoplantar Keratoderma (CEDNIK) Syndrome	<i>SNAP29</i>	•			
Cerebrotendinous Xanthomatosis	<i>CYP27A1</i>	•			0
Charcot-Marie-Tooth Disease with Deafness, X-Linked	<i>GJB1</i>		•		
Charcot-Marie-Tooth Disease, Recessive Intermediate C	<i>PLEKHG5</i>	•			
Charcot-Marie-Tooth Disease, Type 4D	<i>NDRG1</i>	•			
Chediak-Higashi Syndrome	<i>LYST</i>	•			
Choreoacanthocytosis	<i>VPS13A</i>	•			
Choroideremia	<i>CHM</i>		•		
Chronic Granulomatous Disease, CYBA-Related	<i>CYBA</i>	•			
Chronic Granulomatous Disease, NCF2-Related	<i>NCF2</i>	•			
Chronic Granulomatous Disease, X-Linked	<i>CYBB</i>		•		
Ciliopathies, RPGRIP1L-Related	<i>RPGRIP1L</i>	•			
Citrin Deficiency	<i>SLC25A13</i>	•			
Citrullinemia, Type 1	<i>ASS1</i>	•			
CLN10 Disease	<i>CTSD</i>	•			
Cohen Syndrome	<i>VPS13B</i>	•			
COL11A2-Related Conditions	<i>COL11A2</i>	•			
Combined Malonic and Methylmalonic Aciduria	<i>ACSF3</i>	•			
Combined Oxidative Phosphorylation Deficiency 1	<i>GFM1</i>	•			
Combined Oxidative Phosphorylation Deficiency 3	<i>TSMF</i>	•			
Combined Pituitary Hormone Deficiency 1	<i>POU1F1</i>	•			
Combined Pituitary Hormone Deficiency-2	<i>PROP1</i>	•			
Congenital Adrenal Hyperplasia, 11-Beta-Hydroxylase Deficiency	<i>CYP11B1</i>	•			
Congenital Adrenal Hyperplasia, 17-Alpha-Hydroxylase Deficiency	<i>CYP17A1</i>	•			
Congenital Adrenal Hyperplasia, 21-Hydroxylase Deficiency	<i>CYP21A2</i>	•			0
Congenital Adrenal Insufficiency, CYP11A1-Related	<i>CYP11A1</i>	•			0

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Congenital Amegakaryocytic Thrombocytopenia	MPL	•			
Congenital Chronic Diarrhea	DGAT1	•			
Congenital Disorder Of Glycosylation Type 1, ALG1-Related	ALG1	•			
Congenital Disorder of Glycosylation, Type 1A, PMM2-Related	PMM2	•			0
Congenital Disorder of Glycosylation, Type 1B	MPI	•			
Congenital Disorder of Glycosylation, Type 1C	ALG6	•			
Congenital Dyserythropoietic Anemia Type 2	SEC23B	•			
Congenital Finnish Nephrosis	NPHS1	•			0
Congenital Hydrocephalus 1	CCDC88C	•			0
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	•			0
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, G6PC3-Related	G6PC3	•			
Congenital Neutropenia, HAX1-Related	HAX1	•			
Congenital Neutropenia, VPS45-Related	VPS45	•			
Congenital Secretory Chloride Diarrhea 1	SLC26A3	•			
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		•		0
Cystic Fibrosis	CFTR	•		0	0
Cystinosis	CTNS	•			
Cytochrome C Oxidase Deficiency, PET100-Related	PET100	•			
Cytochrome P450 Oxoreductase Deficiency	POR	•			
D-Bifunctional Protein Deficiency	HSD17B4	•			
Deafness, Autosomal Recessive 77	LOXHD1	•			
Dent Disease, Type 1	CLCN5		•		
Dent Disease, Type 2 / Lowe Syndrome	OCRL		•		
Developmental And Epileptic Encephalopathy 36	ALG13		•		
Dihydropteridine Reductase (DHPR) Deficiency	QDPR	•			
Dihydropyrimidine Dehydrogenase Deficiency	DPYD	•			
Donnai-Barrow Syndrome	LRP2	•			0
Dubin-Johnson Syndrome	ABCC2	•			
Duchenne/Becker Muscular Dystrophy	DMD		•		0
Dyskeratosis Congenita Spectrum Disorders	TERT	•			
Dyskeratosis Congenita, DKC1-Related	DKC1		•		
Dyskeratosis Congenita, RTEL1-Related	RTEL1	•			
Dystrophic Epidermolysis Bullosa, COL7A1-Related	COL7A1	•			0
Early Infantile Epileptic Encephalopathy, CAD-Related	CAD	•			
Ehlers-Danlos Syndrome Type VI	PLOD1	•			
Ehlers-Danlos Syndrome, Classic-Like, TNXB-Related	TNXB	•			0
Ehlers-Danlos Syndrome, Type VIIC	ADAMTS2	•			
Ellis-van Creveld Syndrome, EVC2-Related	EVC2	•			0
Ellis-van Creveld Syndrome, EVC-Related	EVC	•			
Emery-Dreifuss Muscular Dystrophy 1, X-Linked	EMD		•		
Emery-Dreifuss Muscular Dystrophy 6, X Linked	FHL1		•		
Enhanced S-Cone Syndrome	NR2E3	•			
Epimerase Deficiency (Galactosemia Type III)	GALE	•			
Epiphyseal Dysplasia, Multiple, 7 / Desbuquois Dysplasia 1	CANT1	•			
ERCC6-Related Disorders	ERCC6	•			
ERCC8-Related Disorders	ERCC8	•			
Ethylmalonic Encephalopathy	ETHE1	•			
Fabry Disease	GLA		•		0

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Factor IX Deficiency	<i>F9</i>		•		0
Familial Dysautonomia	<i>IKBKAP</i>	•		0	0
Familial Hemophagocytic Lymphohistiocytosis, PRF1-Related	<i>PRF1</i>	•			0
Familial Hemophagocytic Lymphohistiocytosis, STX11-Related	<i>STX11</i>	•			
Familial Hemophagocytic Lymphohistiocytosis, STXBP2-Related	<i>STXBP2</i>	•			
Familial Hemophagocytic Lymphohistiocytosis, UNC13D-Related	<i>UNC13D</i>	•			
Familial Hypercholesterolemia, LDLRAP1-Related	<i>LDLRAP1</i>	•			
Familial Hypercholesterolemia, LDLR-Related	<i>LDLR</i>	•			
Familial Hyperinsulinism, ABCC8-Related	<i>ABCC8</i>	•		0	0
Familial Nephrogenic Diabetes Insipidus, AQP2-Related	<i>AQP2</i>	•			
Fanconi Anemia Group J	<i>BRIP1</i>	•			
Fanconi Anemia, Group A	<i>FANCA</i>	•		0	
Fanconi Anemia, Group B	<i>FANCB</i>		•		
Fanconi Anemia, Group C	<i>FANCC</i>	•		0	0
Fanconi Anemia, Group D2	<i>FANCD2</i>	•			
Fanconi Anemia, Group E	<i>FANCE</i>	•			
Fanconi Anemia, Group F	<i>FANCF</i>	•			
Fanconi Anemia, Group G	<i>FANCG</i>	•		0	
Fanconi Anemia, Group I	<i>FANCI</i>	•			
Fanconi Anemia, Group L	<i>FANCL</i>	•			
Farber Lipogranulomatosis	<i>ASAH1</i>	•			
Foveal Hypoplasia	<i>SLC38A8</i>	•			
Fragile X Syndrome	<i>FMR1</i>		•	0	0
Fragile XE Syndrome	<i>AFF2</i>		•		0
Fraser Syndrome 3, GRIP1-Related	<i>GRIP1</i>	•			0
Fraser Syndrome, FRAS1-Related	<i>FRAS1</i>	•			
Fraser Syndrome, FREM2-Related	<i>FREM2</i>	•			
Friedreich Ataxia	<i>FXN</i>	•			0
Fructose-1,6-Bisphosphatase Deficiency	<i>FBP1</i>	•			
Fucosidosis	<i>FUCA1</i>	•			
Fumarase Deficiency	<i>FH</i>	•			
GABA-Transaminase Deficiency	<i>ABAT</i>	•			
Galactokinase Deficiency (Galactosemia, Type II)	<i>GALK1</i>	•			
Galactosemia	<i>GALT</i>	•			0
Galactosialidosis	<i>CTSA</i>	•			
Gaucher Disease	<i>GBA</i>	•			0
GCH1-Related Conditions	<i>GCH1</i>	•			
GDF5-Related Conditions	<i>GDF5</i>	•			
Geroderma Osteodysplastica	<i>GORAB</i>	•			
Gitelman Syndrome	<i>SLC12A3</i>	•			
Glanzmann Thrombasthenia	<i>ITGB3</i>	•			
Glucose-6-Phosphate Dehydrogenase Deficiency	<i>G6PD*</i>		•		
Glutaric Acidemia, Type 1	<i>GCDH</i>	•			
Glutaric Acidemia, Type 2A	<i>ETFA</i>	•			
Glutaric Acidemia, Type 2B	<i>ETFB</i>	•			
Glutaric Acidemia, Type 2C	<i>ETFDH</i>	•			
Glutathione Synthetase Deficiency	<i>GSS</i>	•			
Glycine Encephalopathy, AMT-Related	<i>AMT</i>	•			
Glycine Encephalopathy, GLDC-Related	<i>GLDC</i>	•			
Glycogen Storage Disease Type IXb	<i>PHKB</i>	•			
Glycogen Storage Disease Type IXc	<i>PHKG2</i>	•			
Glycogen Storage Disease, Type 1A	<i>G6PC</i>	•		0	0
Glycogen Storage Disease, Type 1B	<i>SLC37A4</i>	•		0	0
Glycogen Storage Disease, Type 2 (Pompe Disease)	<i>GAA</i>	•			0
Glycogen Storage Disease, Type 3	<i>AGL</i>	•			
Glycogen Storage Disease, Type 4	<i>GBE1</i>	•			0
Glycogen Storage Disease, Type 5 (McArdle Disease)	<i>PYGM</i>	•			
Glycogen Storage Disease, Type 7	<i>PFKM</i>	•			
GRACILE Syndrome	<i>BCS1L</i>	•			
Guanidinoacetate Methyltransferase Deficiency	<i>GAMT</i>	•			
Harlequin Ichthyosis	<i>ABCA12</i>	•			

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Heme Oxygenase 1 Deficiency	HMOX1	•			
Hemochromatosis, Type 2A	HFE2	•			
Hemochromatosis, Type 3, TFR2-Related	TFR2	•			
Hemophilia A	F8		•		0
Hepatocerebral Mitochondrial DNA Depletion Syndrome, MPV17-Related	MPV17	•			
Hereditary Fructose Intolerance	ALDOB	•			0
Hereditary Hemochromatosis Type 2B	HAMP	•			
Hereditary Spastic Paraparesis, Type 49	TECPR2	•			
Hereditary Spastic Paraplegia, CYP7B1-Related	CYP7B1	•			
Hermansky-Pudlak Syndrome, AP3B1-Related	AP3B1	•			
Hermansky-Pudlak Syndrome, BLOC1S3-Related	BLOC1S3	•			
Hermansky-Pudlak Syndrome, BLOC1S6-Related	BLOC1S6	•			
Hermansky-Pudlak Syndrome, HPS1-Related	HPS1	•			0
Hermansky-Pudlak Syndrome, HPS3-Related	HPS3	•			0
Hermansky-Pudlak Syndrome, HPS4-Related	HPS4	•			
Hermansky-Pudlak Syndrome, HPS5-Related	HPS5	•			
Hermansky-Pudlak Syndrome, HPS6-Related	HPS6	•			
Heterotaxy Syndrome, ZIC3-Related	ZIC3		•		
Holocarboxylase Synthetase Deficiency	HLCS	•			
Homocystinuria And Megaloblastic Anemia Type Cblg	MTR	•			
Homocystinuria due to Deficiency of MTHFR	MTHFR	•			
Homocystinuria, CBS-Related	CBS	•			0
Homocystinuria, Type cblE	MTRR	•			
HSD10 Disease	HSD17B10		•		
Hydrolethalus Syndrome	HYLS1	•			
Hyper IgM Syndrome, X-Linked	CD40LG		•		
Hyper-IgM Immunodeficiency	CD40	•			
Hyperornithinemia-Hyperammonemia-Homocitrullinuria (HHH Syndrome)	SLC25A15	•			
Hyperphosphatemic Familial Tumoral Calcinosis, GALNT3-Related	GALNT3	•			
Hypohidrotic Ectodermal Dysplasia, X-Linked	EDA		•		
Hypomyelinating Leukodystrophy 12	VPS11	•			
Hypophosphatasia, ALPL-Related	ALPL	•			0
Imerslund-Gräsbeck Syndrome 2	AMN	•			
Immune Dysregulation, Polyendocrinopathy, Enteropathy, X-Linked (IPEX) Syndrome	FOXP3		•		
Immunodeficiency-Centromeric Instability-Facial Anomalies (ICF) Syndrome, DNMT3B-Related	DNMT3B	•			
Immunodeficiency-Centromeric Instability-Facial Anomalies (ICF) Syndrome, ZBTB24-Related	ZBTB24	•			
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 Ectopia Lentis	ADAMTSL4	•			
Isolated Lissencephaly Sequence / Subcortical Band Heterotopia	DCX		•		
Isolated Sulfite Oxidase Deficiency	SUOX	•			
Isolated Thyroid-Stimulating Hormone Deficiency	TSHB	•			
Isovaleric Acidemia	IVD	•			
Johanson-Blizzard Syndrome	UBR1	•			
Joubert Syndrome 2 / Meckel Syndrome 2	TMEM216	•		0	0
Joubert Syndrome And Related Disorders (JSRD), TMEM67-Related	TMEM67	•			
Joubert Syndrome, AHI1-Related	AHI1	•		0	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	0
Joubert Syndrome, CEP104-Related	CEP104	•		0	
Joubert Syndrome, CEP120-Related / Short-Rib Thoracic Dysplasia 13 with or without Polydactyly	CEP120	•		0	
Joubert Syndrome, CEP41-Related	CEP41	•		0	
Joubert Syndrome, CPLANE1-Related / Orofaciodigital Syndrome 6	CPLANE1	•		0	

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Joubert Syndrome, CSPP1-Related	<i>CSPP1</i>	•		0	
Joubert Syndrome, INPP5E-Related	<i>INPP5E</i>	•		0	
Junctional Epidermolysis Bullosa, COL17A1-Related	<i>COL17A1</i>	•			
Junctional Epidermolysis Bullosa, ITGA6-Related	<i>ITGA6</i>	•			
Junctional Epidermolysis Bullosa, ITGB4-Related	<i>ITGB4</i>	•			
Junctional Epidermolysis Bullosa, LAMA3-Related	<i>LAMA3</i>	•			
Junctional Epidermolysis Bullosa, LAMB3-Related	<i>LAMB3</i>	•			
Junctional Epidermolysis Bullosa, LAMC2-Related	<i>LAMC2</i>	•			
Juvenile Retinoschisis, X-Linked	<i>RS1</i>		•		0
Ketothiolase Deficiency	<i>ACAT1</i>	•			0
Krabbe Disease	<i>GALC</i>	•			
L1 Syndrome	<i>L1CAM</i>		•		0
Lamellar Ichthyosis, Type 1	<i>TGM1</i>	•			
Laron Syndrome	<i>GHR</i>	•			
Leber Congenital Amaurosis 2	<i>RPE65</i>	•			
Leber Congenital Amaurosis Type AIPL1	<i>AIPL1</i>	•			
Leber Congenital Amaurosis Type LRAT	<i>LRAT</i>	•			
Leber Congenital Amaurosis Type TULP1	<i>TULP1</i>	•			
Leber Congenital Amaurosis, IQCB1-Related / Senior-Loken Syndrome 5	<i>IQCB1</i>	•			
Leber Congenital Amaurosis, Type CEP290	<i>CEP290</i>	•			0
Leber Congenital Amaurosis, Type LCA5	<i>LCA5</i>	•			
Leber Congenital Amaurosis, Type RDH12	<i>RDH12</i>	•			
Leber Congenital Amaurosis Type GUCY2D	<i>GUCY2D</i>	•			
Leigh Syndrome, French-Canadian Type	<i>LRPPRC</i>	•			
Lesch-Nyhan Syndrome	<i>HPRT1</i>		•		
Lethal Congenital Contracture Syndrome 1	<i>GLE1</i>	•			
Leukoencephalopathy with Vanishing White Matter	<i>EIF2B5</i>	•			
Leukoencephalopathy With Vanishing White Matter, EIF2B1-Related	<i>EIF2B1</i>	•			
Leukoencephalopathy With Vanishing White Matter, EIF2B2-Related	<i>EIF2B2</i>	•			
Leukoencephalopathy With Vanishing White Matter, EIF2B3-Related	<i>EIF2B3</i>	•			
Leukoencephalopathy With Vanishing White Matter, EIF2B4-Related	<i>EIF2B4</i>	•			
LIG4 Syndrome	<i>LIG4</i>	•			
Limb-Girdle Muscular Dystrophy Type 8	<i>TRIM32</i>	•			
Limb-Girdle Muscular Dystrophy, Type 2A	<i>CAPN3</i>	•			
Limb-Girdle Muscular Dystrophy, Type 2B	<i>DYSF</i>	•			
Limb-Girdle Muscular Dystrophy, Type 2C	<i>SGCG</i>	•			
Limb-Girdle Muscular Dystrophy, Type 2D	<i>SGCA</i>	•			
Limb-Girdle Muscular Dystrophy, Type 2E	<i>SGCB</i>	•			
Limb-Girdle Muscular Dystrophy, Type 2F	<i>SGCD</i>	•			
Limb-Girdle Muscular Dystrophy, Type 2I	<i>FKRP</i>	•			0
Lipoamide Dehydrogenase Deficiency (Dihydrolipoamide Dehydrogenase Deficiency)	<i>DLD</i>	•			0
Lipoid Adrenal Hyperplasia	<i>STAR</i>	•			
Lipoprotein Lipase Deficiency	<i>LPL</i>	•			
Long Chain 3-Hydroxyacyl-CoA Dehydrogenase Deficiency	<i>HADHA</i>	•			
Lung Disease, Immunodeficiency, And Chromosome Breakage Syndrome (LICS)	<i>NSMCE3</i>	•			
Lysinuric Protein Intolerance	<i>SLC7A7</i>	•			
Malonyl-CoA Decarboxylase Deficiency	<i>MLYCD</i>	•			
Maple Syrup Urine Disease, Type 1A	<i>BCKDHA</i>	•		0	
Maple Syrup Urine Disease, Type 1B	<i>BCKDHB</i>	•		0	0
Maple Syrup Urine Disease, Type 2	<i>DBT</i>	•		0	
McKusick-Kaufman Syndrome	<i>MKKS</i>	•			
Meckel Syndrome 7 / Nephronophthisis 3	<i>NPHP3</i>	•			
Meckel-Gruber Syndrome, Type 1	<i>MKS1</i>	•			
MECP2-Related Conditions	<i>MECP2</i>		•		
MECR-Related Neurologic Disorder	<i>MECR</i>	•			
Medium Chain Acyl-CoA Dehydrogenase Deficiency	<i>ACADM</i>	•		0	0
MEDNIK Syndrome	<i>AP1S1</i>	•			
Megalencephalic Leukoencephalopathy with Subcortical Cysts	<i>MLC1</i>	•			0
Menkes Syndrome	<i>ATP7A</i>		•		
Merosin-Deficient Muscular Dystrophy	<i>LAMA2</i>	•			

Condition	Gene	AUTOSOMAL RECESSIVE	X-LINKED	SCREENING RECOMMENDATIONS	
				ACOG†	ACMG
Metabolic Encephalopathy and Arrhythmias, TANGO2-Related	TANGO2	•			
Metachromatic Leukodystrophy, ARSA-Related	ARSA	•			0
Metachromatic Leukodystrophy, PSAP-Related	PSAP	•			
Methylmalonic Acidemia And Homocystinuria Type Cblf	LMBRD1	•			
Methylmalonic Acidemia And Homocystinuria Type Cblx	HCFC1		•		
Methylmalonic Aciduria and Homocystinuria, Type cblC	MMACHC	•			0
Methylmalonic Aciduria and Homocystinuria, Type cblD	MMADHC	•			
Methylmalonic Aciduria, MCEE-Related	MCEE	•			
Methylmalonic Aciduria, MMAA-Related	MMAA	•			
Methylmalonic Aciduria, MMAB-Related	MMAB	•			
Methylmalonic Aciduria, Type mut(0)	MUT	•			0
Mevalonic Kinase Deficiency	MVK	•			0
Microcephalic Osteodysplastic Primordial Dwarfism Type II	PCNT	•			
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 10	NDUFAF2	•			
Mitochondrial Complex I Deficiency, Nuclear Type 17	NDUFAF6	•			
Mitochondrial Complex I Deficiency, Nuclear Type 19	FOXRED1	•			
Mitochondrial Complex I Deficiency, Nuclear Type 3	NDUFS7	•			
Mitochondrial Complex I Deficiency, Nuclear Type 4	NDUFV1	•			
Mitochondrial Complex IV Deficiency, Nuclear Type 2, SCO2-Related	SCO2	•			0
Mitochondrial Complex IV Deficiency, Nuclear Type 6	COX15	•			
Mitochondrial Dna Depletion Syndrome 2	TK2	•			
Mitochondrial Dna Depletion Syndrome 3	DGUOK	•			
Mitochondrial Myopathy and Sideroblastic Anemia (MLASA1)	PUS1	•			
Mitochondrial Trifunctional Protein Deficiency, HADHB-Related	HADHB	•			
Molybdenum Cofactor Deficiency Type B	MOCS2	•			
Molybdenum Cofactor Deficiency, Type A	MOCS1	•			
Mucopolipidosis II/IIIA	GNPTAB	•			0
Mucopolipidosis III gamma	GNPTG	•			
Mucopolipidosis, Type IV	MCOLN1	•		0	0
Mucopolysaccharidosis, Type I (Hurler Syndrome)	IDUA	•			0
Mucopolysaccharidosis, Type II (Hunter Syndrome)	IDS		•		
Mucopolysaccharidosis, Type IIIA (Sanfilippo A)	SGSH	•			
Mucopolysaccharidosis, Type IIIB (Sanfilippo B)	NAGLU	•			
Mucopolysaccharidosis, Type IIIC (Sanfilippo C)	HGSNAT	•			
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	•			
Muscular Dystrophy-Dystroglycanopathy	RXYLT1	•			
MUSK-Related Congenital Myasthenic Syndrome	MUSK	•			
Myoneurogastrointestinal Encephalopathy (MNGIE)	TYMP	•			
Myotonia Congenita	CLCN1	•			0
Myotubular Myopathy, X-Linked	MTM1		•		
N-acetylglutamate Synthase Deficiency	NAGS	•			
Nemaline Myopathy, NEB-Related	NEB	•			0
Nephrogenic Diabetes Insipidus, AVPR2-Related	AVPR2		•		
Nephronophthisis 1	NPHP1	•			
Neuronal Ceroid Lipofuscinosis, CLN5-Related	CLN5	•			
Neuronal Ceroid Lipofuscinosis, CLN6-Related	CLN6	•			
Neuronal Ceroid Lipofuscinosis, CLN8-Related	CLN8	•			

Condition	Gene	AUTOSOMAL RECESSIVE	X-LINKED	SCREENING RECOMMENDATIONS	
				ACOG†	ACMG
Neuronal Ceroid Lipofuscinosis, MFSD8-Related	<i>MFSD8</i>	•			
Neuronal Ceroid Lipofuscinosis, PPT1-Related	<i>PPT1</i>	•			
Neuronal Ceroid Lipofuscinosis, TPP1-Related	<i>TPP1</i>	•			
Ngly1-Congenital Disorder Of Glycosylation	<i>NGLY1</i>	•			
Niemann-Pick Disease, Type C1/D	<i>NPC1</i>	•		0	
Niemann-Pick Disease, Type C2	<i>NPC2</i>	•		0	
Niemann-Pick Disease, Types A/B	<i>SMPD1</i>	•		0	0
Nijmegen Breakage Syndrome	<i>NBN</i>	•			
Non-Syndromic Hearing Loss, GJB2-Related	<i>GJB2</i>	•			0
Nonsyndromic Hearing Loss, MYO15A-Related	<i>MYO15A</i>	•			
Nonsyndromic Hearing Loss, OTOA-Related	<i>OTOA</i>	•			
Nonsyndromic Hearing Loss, OTOF-Related	<i>OTOF</i>	•			
Nonsyndromic Hearing Loss, PJKV-Related	<i>PJKV</i>	•			
Nonsyndromic Hearing Loss, SYNE4-Related	<i>SYNE4</i>	•			
Nonsyndromic Hearing Loss, TMC1-Related	<i>TMC1</i>	•			
Nonsyndromic Hearing Loss, TMPRSS3-Related	<i>TMPRSS3</i>	•			
Nonsyndromic Intellectual Disability	<i>CC2D1A</i>	•			
Normophosphatemic Tumoral Calcinosis	<i>SAMD9</i>	•			
Oculocutaneous Albinism Type III	<i>TYRP1</i>	•			
Oculocutaneous Albinism Type IV	<i>SLC45A2</i>	•			
Oculocutaneous Albinism, OCA2-Related	<i>OCA2</i>	•			0
Oculocutaneous Albinism, Type 1A and 1B	<i>TYR</i>	•			0
Odonto-Onycho-Dermal Dysplasia / Schopf-Schulz-Passarge Syndrome	<i>WNT10A</i>	•			
Omenn Syndrome, RAG2-Related	<i>RAG2</i>	•			
Opitz G/BBB Syndrome, X-Linked	<i>MID1</i>		•		0
Ornithine Transcarbamylase Deficiency	<i>OTC</i>		•		0
Osteogenesis Imperfecta Type VII	<i>CRTAP</i>	•			
Osteogenesis Imperfecta Type VIII	<i>P3H1</i>	•			
Osteogenesis Imperfecta Type XI	<i>FKBP10</i>	•			
Osteogenesis Imperfecta Type XIII	<i>BMP1</i>	•			
Osteopetrosis, Infantile Malignant, TCIRG1-Related	<i>TCIRG1</i>	•			
Osteopetrosis, OSTM1-Related	<i>OSTM1</i>	•			
Pantothenate Kinase-Associated Neurodegeneration	<i>PANK2</i>	•			
Papillon Lefèvre Syndrome	<i>CTSC</i>	•			
Parkinson Disease 15	<i>FBXO7</i>	•			
Pendred Syndrome	<i>SLC26A4</i>	•			0
Perlman Syndrome	<i>DIS3L2</i>	•			
Pgm3-Congenital Disorder Of Glycosylation	<i>PGM3</i>	•			
Phenylketonuria	<i>PAH</i>	•			0
Pign-Congenital Disorder Of Glycosylation	<i>PIGN</i>	•			
Pituitary Hormone Deficiency, Combined 3	<i>LHX3</i>	•			
PLP1 Disorders	<i>PLP1</i>		•		0
POLG-Related Disorders	<i>POLG</i>	•			0
Polycystic Kidney Disease, Autosomal Recessive	<i>PKHD1</i>	•			0
Pontocerebellar Hypoplasia, EXOSC3-Related	<i>EXOSC3</i>	•			
Pontocerebellar Hypoplasia, RARS2-Related	<i>RARS2</i>	•			0
Pontocerebellar Hypoplasia, TSEN2-Related	<i>TSEN2</i>	•			
Pontocerebellar Hypoplasia, TSEN54-Related	<i>TSEN54</i>	•			
Pontocerebellar Hypoplasia, Type 1A	<i>VRK1</i>	•			
Pontocerebellar Hypoplasia, Type 2D	<i>SEPSECS</i>	•			
Pontocerebellar Hypoplasia, VPS53-Related	<i>VPS53</i>	•			
Primary Ciliary Dyskinesia, CCDC103-Related	<i>CCDC103</i>	•			
Primary Ciliary Dyskinesia, CCDC39-Related	<i>CCDC39</i>	•			
Primary Ciliary Dyskinesia, DNAH11-Related	<i>DNAH11</i>	•			
Primary Ciliary Dyskinesia, DNAH5-Related	<i>DNAH5</i>	•			
Primary Ciliary Dyskinesia, DNAI1-Related	<i>DNAI1</i>	•			
Primary Ciliary Dyskinesia, DNAI2-Related	<i>DNAI2</i>	•			
Primary Congenital Glaucoma / Peters Anomaly	<i>CYP1B1</i>	•			
Primary Hyperoxaluria, Type 1	<i>AGXT</i>	•			0
Primary Hyperoxaluria, Type 2	<i>GRHPR</i>	•			
Primary Hyperoxaluria, Type 3	<i>HOGA1</i>	•			



Condition	Gene	AUTOSOMAL RECESSIVE	X-LINKED	SCREENING RECOMMENDATIONS	
				ACOG†	ACMG
Primary Microcephaly 1, Autosomal Recessive	<i>MCPH1</i>	•			0
Progressive Early-Onset Encephalopathy With Brain Atrophy And Thin Corpus Callosum	<i>TBCD</i>	•			
Progressive Familial Intrahepatic Cholestasis, ABCB4-Related	<i>ABCB4</i>	•			
Progressive Familial Intrahepatic Cholestasis, Type 1 (PFIC1)	<i>ATP8B1</i>	•			
Progressive Familial Intrahepatic Cholestasis, Type 2	<i>ABCB11</i>	•			
Progressive Familial Intrahepatic Cholestasis, Type 4 (PFIC4)	<i>TJP2</i>	•			
Progressive Pseudorheumatoid Dysplasia	<i>CCN6</i>	•			
Prolidase Deficiency	<i>PEPD</i>	•			
Propionic Acidemia, PCCA-Related	<i>PCCA</i>	•			
Propionic Acidemia, PCCB-Related	<i>PCCB</i>	•			
Pseudocholinesterase Deficiency	<i>BCHE</i>	•			
Pterin-4 Alpha-Carbinolamine Dehydratase (PCD) Deficiency	<i>PCBD1</i>	•			
Pycnodysostosis	<i>CTSK</i>	•			
Pyridoxal 5'-Phosphate-Dependent Epilepsy	<i>PNPO</i>	•			
Pyridoxine-Dependent Epilepsy	<i>ALDH7A1</i>	•			
Pyruvate Carboxylase Deficiency	<i>PC</i>	•			
Pyruvate Dehydrogenase Deficiency, PDHB-Related	<i>PDHB</i>	•			
Pyruvate Dehydrogenase Deficiency, X-Linked	<i>PDHA1</i>		•		
Refsum Disease, PHYH-Related	<i>PHYH</i>	•			
Renal Tubular Acidosis and Deafness, ATP6V1B1-Related	<i>ATP6V1B1</i>	•			
Renal Tubular Acidosis, Proximal, with Ocular Abnormalities and Mental Retardation	<i>SLC4A4</i>	•			
Retinitis Pigmentosa 2	<i>RP2</i>		•		
Retinitis Pigmentosa 25	<i>EYS</i>	•			
Retinitis Pigmentosa 26	<i>CERKL</i>	•			
Retinitis Pigmentosa 28	<i>FAM161A</i>	•			
Retinitis Pigmentosa 36	<i>PRCD</i>	•			
Retinitis Pigmentosa 59	<i>DHDDS</i>	•			0
Retinitis Pigmentosa 62	<i>MAK</i>	•			
Retinitis Pigmentosa, X-Linked, RPGR-Related	<i>RPGR</i>		•		0
Rhizomelic Chondrodysplasia Punctata, Type 1	<i>PEX7</i>	•			
Rhizomelic Chondrodysplasia Punctata, Type 2	<i>GNPAT</i>	•			
Rhizomelic Chondrodysplasia Punctata, Type 3	<i>AGPS</i>	•			
RLBP1-Related Retinopathy	<i>RLBP1</i>	•			
Roberts Syndrome	<i>ESCO2</i>	•			
RYR1-Related Conditions	<i>RYR1</i>	•			
Salla Disease	<i>SLC17A5</i>	•			
Sandhoff Disease	<i>HEXB</i>	•			
Schimke Immunoosseous Dysplasia	<i>SMARCAL1</i>	•			
Schindler Disease	<i>NAGA</i>	•			0
Segawa Syndrome, TH-Related	<i>TH</i>	•			
Senior-Loken Syndrome 4 / Nephronophthisis 4	<i>NPHP4</i>	•			
Sepiapterin Reductase Deficiency	<i>SPR</i>	•			
Severe Combined Immunodeficiency (SCID), CD3D-Related	<i>CD3D</i>	•			
Severe Combined Immunodeficiency (SCID), CD3E-Related	<i>CD3E</i>	•			
Severe Combined Immunodeficiency (SCID), FOXP1-Related	<i>FOXP1</i>	•			
Severe Combined Immunodeficiency (SCID), IKBKB-Related	<i>IKBKB</i>	•			
Severe Combined Immunodeficiency (SCID), IL7R-Related	<i>IL7R</i>	•			
Severe Combined Immunodeficiency (SCID), JAK3-Related	<i>JAK3</i>	•			
Severe Combined Immunodeficiency (SCID), PTPRC-Related	<i>PTPRC</i>	•			
Severe Combined Immunodeficiency, ADA-Related	<i>ADA</i>	•			
Severe Combined Immunodeficiency, RAG1-Related	<i>RAG1</i>	•			
Severe Combined Immunodeficiency, Type Athabaskan	<i>DCLRE1C</i>	•			
Severe Combined Immunodeficiency, X-Linked	<i>IL2RG</i>		•		
Short-Rib Thoracic Dysplasia 3 with or without Polydactyly	<i>DYNC2H1</i>	•			0
Shwachman-Diamond Syndrome, SBDS-Related	<i>SBDS</i>	•			
Sialidosis	<i>NEU1</i>	•			
Sjögren-Larsson Syndrome	<i>ALDH3A2</i>	•			
Smith-Lemli-Opitz Syndrome	<i>DHCR7</i>	•		0	0
Spastic Paraplegia, Type 15	<i>ZFYVE26</i>	•			

Condition	Gene	AUTOSOMAL RECESSIVE	X-LINKED	SCREENING RECOMMENDATIONS	
				ACOG†	ACMG
Spastic Tetraplegia, Thin Corpus Callosum, and Progressive Microcephaly (SPATCCM)	SLC1A4	•			
SPG11-Related Conditions	SPG11	•			
Spinal Muscular Atrophy	SMN1	•		0	0
Spinal Muscular Atrophy With Respiratory Distress Type 1	IGHMBP2	•			
Spinocerebellar Ataxia, Autosomal Recessive 10	ANO10	•			0
Spinocerebellar Ataxia, Autosomal Recessive 12	WWOX	•			
Spondylocostal Dysostosis 1	DLL3	•			
Spondylothoracic Dysostosis, MESP2-Related	MESP2	•			
Steel Syndrome	COL27A1	•			
Steroid-Resistant Nephrotic Syndrome	NPHS2	•			
Stuve-Wiedemann Syndrome	LIFR	•			
SURF1-Related Conditions	SURF1	•			
Surfactant Dysfunction, ABCA3-Related	ABCA3	•			0
Tay-Sachs Disease	HEXA	•		0	0
TBCE-Related Conditions	TBCE	•			
Thiamine-Responsive Megaloblastic Anemia Syndrome	SLC19A2	•			
Thyroid Dyshormonogenesis 1	SLC5A5	•			
Thyroid Dyshormonogenesis 2A	TPO	•			
Thyroid Dyshormonogenesis 3	TG	•			
Thyroid Dyshormonogenesis 6	DUOX2	•			
Transcobalamin II Deficiency	TCN2	•			
Trichohepatoenteric Syndrome, SKIV2L-Related	SKIC2	•			
Trichohepatoenteric Syndrome, TTC37-Related	TTC37	•			
Trichothiodystrophy 1 / Xeroderma Pigmentosum, Group D	ERCC2	•			0
Trimethylaminuria	FMO3	•			0
Triple A Syndrome	AAAS	•			
TSHR-Related Conditions	TSHR	•			
Tyrosinemia Type III	HPD	•			
Tyrosinemia, Type 1	FAH	•			0
Tyrosinemia, Type 2	TAT	•			
Usher Syndrome, Type 1B	MYO7A	•			
Usher Syndrome, Type 1C	USH1C	•			
Usher Syndrome, Type 1D	CDH23	•			
Usher Syndrome, Type 1F	PCDH15	•		0	0
Usher Syndrome, Type 1J / Deafness, Autosomal Recessive, 48	CIB2	•			
Usher Syndrome, Type 2A	USH2A	•			0
Usher Syndrome, Type 2C	ADGRV1	•			
Usher Syndrome, Type 3	CLRN1	•		0	0
Very Long-Chain Acyl-CoA Dehydrogenase Deficiency	ACADVL	•			0
Vitamin D-Dependent Rickets Type 2A	VDR	•			
Vici Syndrome	EPG5	•			
Vitamin D Dependent Rickets, Type 1A	CYP27B1	•			0
Vldlr-Associated Cerebellar Hypoplasia	VLDLR	•			
Walker-Warburg Syndrome, FKTN-Related	FKTN	•			0
Walker-Warburg Syndrome, ISPD-Related	ISPD	•			
Walker-Warburg Syndrome, LARGE1-Related	LARGE1	•			
Walker-Warburg Syndrome, POMT1-Related	POMT1	•			
Walker-Warburg Syndrome, POMT2-Related	POMT2	•			
Warsaw Breakage Syndrome	DDX11	•			
Werner Syndrome	WRN	•			
Wilson Disease	ATP7B	•			0
Wiskott-Aldrich Syndrome	WAS		•		
Wolcott-Rallison Syndrome	EIF2AK3	•			
Wolman Disease	LIPA	•			
Woodhouse-Sakati Syndrome	DCAF17	•			
Xeroderma Pigmentosum Variant Type	POLH	•			
Xeroderma Pigmentosum, Group A	XPA	•			
Xeroderma Pigmentosum, Group C	XPC	•			0
X-Linked Chondrodysplasia Punctata 1	ARSL		•		
X-Linked Lissencephaly with Abnormal Genitalia	ARX		•		0

Condition	Gene	AUTOSOMAL RECESSIVE	X-LINKED	SCREENING RECOMMENDATIONS	
				ACOG†	ACMG
Zellweger Spectrum Disorder, PEX13-Related	PEX13	•			
Zellweger Spectrum Disorder, PEX16-Related	PEX16	•			
Zellweger Spectrum Disorder, PEX5-Related	PEX5	•			
Zellweger Spectrum Disorders, PEX10-Related	PEX10	•			
Zellweger Spectrum Disorders, PEX12-Related	PEX12	•			
Zellweger Spectrum Disorders, PEX1-Related	PEX1	•			
Zellweger Spectrum Disorders, PEX26-Related	PEX26	•			
Zellweger Spectrum Disorders, PEX2-Related	PEX2	•			
Zellweger Spectrum Disorders, PEX6-Related	PEX6	•			

\*Low penetrance genes with variable presentation.

†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

1. American College of Obstetricians and Gynecologists, Committee Opinion # 690, March 2017.
2. American College of Obstetricians and Gynecologists, Committee Opinion # 691, March 2017.
3. Gregg et al. Screening for autosomal recessive and X-linked conditions during pregnancy and preconception: a practice resource of the American College of Medical Genetics and Genomics (ACMG), July 2021.

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