

Beacon Carrier Screening Detecting 400+ Conditions



COVERAGE ~99% at 20x

DELETION / DUPLICATION ≥ 2 exons

TURNAROUND TIME 2 weeks*

Condition	Gene	Inheritance	ACOG/ ACMG (6 genes [†])	Focus (30 genes [†])	Ashkenzi Jewish (61 genes [†])	ACMG Tier 3 (113 genes [†])	Expanded (427 genes [†])	Expanded Plus (436 genes [†])
3-Hydroxy-3-methylglutaryl-CoA lyase deficiency	<i>HMGCL</i>	AR	-	-	-	-	✓	✓
3-Ketothiolase deficiency	<i>ACAT1</i>	AR	-	-	-	✓	✓	✓
3-Methylcrotonyl-CoA carboxylase 1 deficiency (3-MCC deficiency)	<i>MCCC1</i>	AR	-	-	-	-	✓	✓
3-Methylcrotonyl-CoA carboxylase 2 deficiency (3-MCC deficiency)	<i>MCCC2</i>	AR	-	-	-	✓	✓	✓
Abetalipoproteinemia	<i>MTTP</i>	AR	-	-	✓	-	✓	✓
Achondrogenesis, type IB; Atelosteogenesis II; Diastrophic dysplasia; Multiple epiphyseal dysplasia	<i>SLC26A2</i>	AR	-	-	-	✓	✓	✓
Achromatopsia	<i>CNGB3</i>	AR	-	-	-	✓	✓	✓
Acrodermatitis enteropathica	<i>SLC39A4</i>	AR	-	-	-	-	✓	✓
Acyl-CoA dehydrogenase-9 (ACAD9) Deficiency	<i>ACAD9</i>	AR	-	-	-	-	✓	✓
Adenosine deaminase deficiency	<i>ADA</i>	AR	-	-	-	-	✓	✓
Adrenal insufficiency, congenital, with 46,XY sex reversal, partial or complete	<i>CYP11A1</i>	AR	-	-	-	✓	✓	✓
Adrenoleukodystrophy, X-linked	<i>ABCD1</i>	XL	-	-	-	✓	✓	✓
Aicardi-Goutieres syndrome	<i>SAMHD1</i>	AR	-	-	-	-	✓	✓
Aicardi-Goutieres syndrome 2	<i>RNASEH2B</i>	AR	-	-	-	✓	✓	✓
Albinism, oculocutaneous, type IA; Albinism, oculocutaneous, type IB	<i>TYR</i>	AR	-	-	-	✓	✓	✓
Albinism, oculocutaneous, type II; Albinism, brown oculocutaneous; Skin/hair/eye pigmentation 1	<i>OCA2</i>	AR	-	-	-	✓	✓	✓
Alkaptonuria	<i>HGD</i>	AR	-	-	-	-	✓	✓
Allan-Herndon-Dudley syndrome	<i>SLC16A2</i>	XL	-	-	-	-	✓	✓
Alpha thalassemia	<i>HBA1/HBA2</i>	AR	✓	✓	✓	✓	✓	✓
Alpha thalassemia X-linked intellectual disability syndrome	<i>ATRX</i>	XL	-	-	-	-	✓	✓
Alpha-1 antitrypsin deficiency	<i>SERPINA1</i>	AR	-	-	-	-	-	✓
Alpha-mannosidosis	<i>MAN2B1</i>	AR	-	-	-	-	✓	✓
Alport syndrome, COL4A3-related	<i>COL4A3</i>	AR	-	-	✓	-	✓	✓
Alport syndrome, COL4A4-related	<i>COL4A4</i>	AR	-	-	-	-	✓	✓

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Alport syndrome, COL4A5-related	<i>COL4A5</i>	XL	-	-	-	-	✓	✓
Alstrom syndrome	<i>ALMS1</i>	AR	-	-	-	-	✓	✓
Anauxetic dysplasia; Cartilage-hair hypoplasia; Metaphyseal dysplasia without hypotrichosis	<i>RMRP</i>	AR	-	-	-	-	✓	✓
Andermann syndrome	<i>SLC12A6</i>	AR	-	-	-	-	✓	✓
Arginase deficiency	<i>ARG1</i>	AR	-	-	-	-	✓	✓
Argininosuccinate lyase deficiency	<i>ASL</i>	AR	-	-	-	✓	✓	✓
Aromatase deficiency	<i>CYP19A1</i>	AR	-	-	-	-	✓	✓
Arthrogryposis, mental retardation, and seizures	<i>SLC35A3</i>	AR	-	-	✓	-	✓	✓
Arts syndrome; Rosenberg-Chutorian syndrome; Phosphoribosylpyrophosphate synthetase superactivity; Non-syndromic hearing loss, PRPS1-related	<i>PRPS1</i>	XL	-	-	-	-	✓	✓
Asparagine synthetase deficiency	<i>ASNS</i>	AR	-	-	-	-	✓	✓
Aspartylglucosaminuria	<i>AGA</i>	AR	-	-	-	✓	✓	✓
Ataxia with isolated vitamin E deficiency	<i>TTPA</i>	AR	-	-	-	-	✓	✓
Ataxia-telangiectasia	<i>ATM</i>	AR	-	-	-	-	✓	✓
Atransferrinemia	<i>TF</i>	AR	-	-	-	✓	✓	✓
Autoimmune polyendocrinopathy syndrome type I	<i>AIRE</i>	AR	-	-	-	✓	✓	✓
Autosomal Recessive Spastic Ataxia of Charlevoix-Saguenay	<i>SACS</i>	AR	-	-	-	-	✓	✓
Bardet-Biedl syndrome 14; Joubert syndrome 5; Leber congenital amaurosis 10; Meckel syndrome 4; Senior-Løken syndrome 6	<i>CEP290</i>	AR	-	-	-	✓	✓	✓
Bardet-Biedl syndrome 2; Retinitis Pigmentosa 74	<i>BBS2</i>	AR	-	-	✓	✓	✓	✓
Bardet-Biedl syndrome type 1	<i>BBS1</i>	AR	-	-	-	✓	✓	✓
Bardet-Biedl syndrome type 10	<i>BBS10</i>	AR	-	-	-	-	✓	✓
Bardet-Biedl syndrome type 12	<i>BBS12</i>	AR	-	-	-	-	✓	✓
Bare lymphocyte syndrome, type II	<i>CIITA</i>	AR	-	-	-	-	✓	✓
Bartter syndrome	<i>BSND</i>	AR	-	-	-	-	✓	✓
Bernard-Soulier syndrome type A1	<i>GP1BA</i>	AR	-	-	-	-	✓	✓
Bernard-Soulier syndrome type C	<i>GP9</i>	AR	-	-	-	-	✓	✓
Bilateral frontoparietal polymicrogyria	<i>ADGRG1</i>	AR	-	-	-	-	✓	✓
Biotinidase deficiency	<i>BTD</i>	AR	-	-	-	✓	✓	✓
Björnstad syndrome; GRACILE syndrome; Mitochondrial complex III deficiency	<i>BCSIL</i>	AR	-	-	-	-	✓	✓
Bloom syndrome	<i>BLM</i>	AR	-	✓	✓	✓	✓	✓
Butyrylcholinesterase deficiency	<i>BCHE</i>	AR	-	-	-	-	-	✓
Canavan disease	<i>ASPA</i>	AR	-	✓	✓	✓	✓	✓

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Carbamoylphosphate synthetase I deficiency	<i>CPS1</i>	AR	-	-	-	-	✓	✓
Carnitine palmitoyltransferase IA deficiency	<i>CPT1A</i>	AR	-	-	-	-	✓	✓
Carnitine palmitoyltransferase II deficiency	<i>CPT2</i>	AR	-	-	✓	✓	✓	✓
Carnitine-acylcarnitine translocase deficiency	<i>SLC25A20</i>	AR	-	-	-	-	✓	✓
Carpenter syndrome	<i>RAB23</i>	AR	-	-	-	-	✓	✓
Catecholaminergic polymorphic ventricular tachycardia, CASQ2-related	<i>CASQ2</i>	AR	-	-	-	-	✓	✓
Catecholaminergic polymorphic ventricular tachycardia, TRDN-related	<i>TRDN</i>	AR	-	-	-	-	✓	✓
Cerebrotendinous xanthomatosis	<i>CYP27A1</i>	AR	-	-	-	✓	✓	✓
Charcot-Marie-Tooth disease, GDAP1-related	<i>GDAP1</i>	AR	-	-	-	-	✓	✓
Charcot-Marie-Tooth disease, SH3TC2-related	<i>SH3TC2</i>	AR	-	-	-	-	✓	✓
Charcot-Marie-Tooth disease, SURF1-related	<i>SURF1</i>	AR	-	-	-	-	✓	✓
Charcot-Marie-Tooth disease, type 4B1	<i>MTMR2</i>	AR	-	-	-	-	✓	✓
Charcot-Marie-Tooth disease, type 4D	<i>NDRG1</i>	AR	-	-	-	-	✓	✓
Charcot-Marie-Tooth disease, X-linked type 1	<i>GJB1</i>	XL	-	-	-	-	✓	✓
Chediak-Higashi syndrome	<i>LYST</i>	AR	-	-	-	-	✓	✓
Childhood-onset severe retinal dystrophy, AIPL1-related	<i>AIPL1</i>	AR	-	-	-	-	✓	✓
Chondrodysplasia punctata type 1, X-linked	<i>ARSE</i>	XL	-	-	-	-	✓	✓
Choreoacanthocytosis	<i>VPS13A</i>	AR	-	-	✓	-	✓	✓
Choroideremia	<i>CHM</i>	XL	-	-	-	-	✓	✓
Chronic granulomatous disease	<i>CYBA</i>	AR	-	-	-	-	✓	✓
Chronic granulomatous disease, X-linked	<i>CYBB</i>	XL	-	-	-	-	✓	✓
Citrin deficiency	<i>SLC25A13</i>	AR	-	-	-	-	✓	✓
Citrullinemia	<i>ASS1</i>	AR	-	✓	-	-	✓	✓
Cockayne syndrome type A	<i>ERCC8</i>	AR	-	-	-	-	✓	✓
Cockayne syndrome type B; De Sanctis-Cacchione syndrome	<i>ERCC6</i>	AR	-	-	-	-	✓	✓
Cohen syndrome	<i>VPS13B</i>	AR	-	-	-	-	✓	✓
Combined malonic and methylmalonic aciduria	<i>ACSF3</i>	AR	-	-	-	-	✓	✓
Combined oxidative phosphorylation deficiency, GFM1-related	<i>GFM1</i>	AR	-	-	-	-	✓	✓
Combined oxidative phosphorylation deficiency, TSFM-related	<i>TSFM</i>	AR	-	-	-	-	✓	✓

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Combined pituitary hormone deficiency 2	<i>PROP1</i>	AR	-	-	-	-	✓	✓
Combined pituitary hormone deficiency 3	<i>LHX3</i>	AR	-	-	-	-	✓	✓
Congenital adrenal hyperplasia due to 11-beta-hydroxylase deficiency	<i>CYP11B1</i>	AR	-	-	-	-	✓	✓
Congenital adrenal hyperplasia due to 17-alpha-hydroxylase deficiency	<i>CYP17A1</i>	AR	-	-	-	-	✓	✓
Congenital adrenal hyperplasia due to 21-hydroxylase deficiency	<i>CYP21A2</i>	AR	-	-	-	✓	✓	✓
Congenital adrenal hyperplasia due to 3-beta-hydroxysteroid dehydrogenase 2 deficiency	<i>HSD3B2</i>	AR	-	-	-	-	✓	✓
Congenital adrenal hypoplasia, X-linked	<i>NR0B1</i>	XL	-	-	-	✓	✓	✓
Congenital amegakaryocytic thrombocytopenia	<i>MPL</i>	AR	-	-	✓	-	✓	✓
Congenital disorder of glycosylation type Ia	<i>PMM2</i>	AR	-	✓	✓	✓	✓	✓
Congenital disorder of glycosylation type Ib	<i>MPI</i>	AR	-	-	-	-	✓	✓
Congenital disorder of glycosylation type Ic	<i>ALG6</i>	AR	-	-	-	-	✓	✓
Congenital hydrocephalus 1	<i>CCDC88C</i>	AR	-	-	-	✓	✓	✓
Congenital hyperinsulinism; Permanent neonatal diabetes mellitus	<i>KCNJ11</i>	AR	-	-	-	-	✓	✓
Congenital hypothyroidism, TSHB-related	<i>TSHB</i>	AR	-	-	-	-	✓	✓
Congenital ichthyosis	<i>TGM1</i>	AR	-	-	-	-	✓	✓
Congenital insensitivity to pain with anhidrosis	<i>NTRK1</i>	AR	-	-	-	-	✓	✓
Congenital myasthenic syndrome, CHRNE-related	<i>CHRNE</i>	AR	-	-	-	✓	✓	✓
Congenital myasthenic syndrome, RAPSN-related; Fetal akinesia deformation sequence	<i>RAPSN</i>	AR	-	-	-	-	✓	✓
Congenital nephrotic syndrome, type 1	<i>NPHS1</i>	AR	-	-	-	✓	✓	✓
Congenital nephrotic syndrome, type 2	<i>NPHS2</i>	AR	-	-	-	-	✓	✓
Congenital secretory chloride diarrhea	<i>SLC26A3</i>	AR	-	-	-	-	✓	✓
Congenital hypothyroidism, DUOX2-related	<i>DUOX2</i>	AR	-	-	-	-	✓	✓
Congenital hypothyroidism, DUOX2-related	<i>DUOX2</i>	AR	-	-	-	-	✓	✓
Corneal endothelial dystrophy	<i>SLC4A11</i>	AR	-	-	-	-	✓	✓
Corticosterone methyloxidase deficiency	<i>CYP11B2</i>	AR	-	-	-	-	✓	✓
Costeff syndrome	<i>OPA3</i>	AR	-	-	-	-	✓	✓
Creatine deficiency syndrome	<i>SLC6A8</i>	XL	-	-	-	✓	✓	✓

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Crigler-Najjar syndrome	<i>UGT1A1</i>	AR	-	-	-	-	✓	✓
Cystic fibrosis	<i>CFTR</i>	AR	✓	✓	✓	✓	✓	✓
Cystinosis	<i>CTNS</i>	AR	-	-	-	-	✓	✓
D-bifunctional protein deficiency	<i>HSD17B4</i>	AR	-	-	-	-	✓	✓
Dent disease 2; Lowe syndrome	<i>OCRL</i>	XL	-	-	-	-	✓	✓
Dihydroipoamide dehydrogenase deficiency	<i>DLD</i>	AR	-	-	-	✓	✓	✓
Dihydropyrimidine dehydrogenase deficiency	<i>DPYD</i>	AR	-	-	✓	-	✓	✓
Donnai-Barrow syndrome; Faciooculoacousticorenal syndrome	<i>LRP2</i>	AR	-	-	-	✓	✓	✓
Duchenne muscular dystrophy	<i>DMD</i>	XL	-	✓	-	✓	✓	✓
Dyskeratosis congenita type 5	<i>RTEL1</i>	AR	-	-	✓	-	✓	✓
Dystrophic epidermolysis bullosa	<i>COL7A1</i>	AR	-	-	-	✓	✓	✓
Ehlers-Danlos syndrome with kyphoscoliosis, PLOD1-related	<i>PLOD1</i>	AR	-	-	-	-	✓	✓
Ehlers-Danlos syndrome, autosomal recessive, due to tenascin X deficiency	<i>TNXB</i>	AR	-	-	-	✓	✓	✓
Ehlers-Danlos syndrome, Dermatosparaxis type VIIC	<i>ADAMTS2</i>	AR	-	-	✓	-	✓	✓
Ellis-van Creveld syndrome, EVC-related; Weyers acrofacial dysostosis, EVC-related	<i>EVC</i>	AR	-	-	-	-	✓	✓
Ellis-van Creveld syndrome, EVC2-related; Weyers acrofacial dysostosis, EVC2-related	<i>EVC2</i>	AR	-	-	-	✓	✓	✓
Emery-Dreifuss muscular dystrophy	<i>EMD</i>	XL	-	-	-	-	✓	✓
Enhanced S-cone syndrome; Retinitis pigmentosa 37	<i>NR2E3</i>	AR	-	-	✓	-	✓	✓
Ethylmalonic encephalopathy	<i>ETHE1</i>	AR	-	-	-	-	✓	✓
Fabry disease	<i>GLA</i>	XL	-	-	-	✓	✓	✓
Factor V deficiency	<i>F5</i>	AR	-	-	-	-	-	✓
Factor XI deficiency	<i>F11</i>	AR	-	-	✓	-	✓	✓
Familial dysautonomia	<i>ELP1 (IKBKAP)</i>	AR	-	✓	✓	✓	✓	✓
Familial hypercholesterolemia	<i>LDLRAP1</i>	AR	-	-	-	-	-	✓
Familial hyperinsulinism, ABCC8- related	<i>ABCC8</i>	AR	-	-	✓	✓	✓	✓
Familial lipoprotein lipase deficiency	<i>LPL</i>	AR	-	-	-	-	-	✓
Familial Mediterranean fever	<i>MEFV</i>	AR	-	-	✓	-	✓	✓
Fanconi anemia group A	<i>FANCA</i>	AR	-	-	-	-	✓	✓
Fanconi anemia group C	<i>FANCC</i>	AR	-	✓	✓	✓	✓	✓
Fanconi anemia group G	<i>FANCG</i>	AR	-	-	-	-	✓	✓
Fragile X syndrome	<i>FMR1</i>	XL	✓	✓	✓	✓	✓	✓
Fraser syndrome	<i>GRIP1</i>	AR	-	-	-	✓	✓	✓

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Friedreich ataxia	<i>FXN</i>	AR	-	-	-	✓	✓	✓
Fumarase deficiency	<i>FH</i>	AR	-	-	-	-	✓	✓
Galactokinase deficiency	<i>GALK1</i>	AR	-	-	-	-	✓	✓
Galactose epimerase deficiency	<i>GALE</i>	AR	-	-	-	-	✓	✓
Galactosemia	<i>GALT</i>	AR	-	✓	✓	✓	✓	✓
Gaucher disease	<i>GBA</i>	AR	-	✓	✓	✓	✓	✓
Gitelman syndrome	<i>SLC12A3</i>	AR	-	-	-	-	✓	✓
Glucose-6-phosphate dehydrogenase deficiency	<i>G6PD</i>	XL	-	-	-	-	-	✓
Glutamate formiminotransferase deficiency	<i>FTCD</i>	AR	-	-	-	-	✓	✓
Glutaric aciduria IIA	<i>ETFA</i>	AR	-	-	-	-	✓	✓
Glutaric aciduria IIB	<i>ETFB</i>	AR	-	-	-	-	✓	✓
Glutaric aciduria IIC	<i>ETFDH</i>	AR	-	-	-	-	✓	✓
Glutaric aciduria, type I	<i>GCDH</i>	AR	-	-	-	-	✓	✓
Glycine encephalopathy, AMT-related	<i>AMT</i>	AR	-	-	-	-	✓	✓
Glycine encephalopathy, GLDC-related	<i>GLDC</i>	AR	-	-	-	-	✓	✓
Glycogen storage disease IV	<i>GBE1</i>	AR	-	-	✓	✓	✓	✓
Glycogen storage disease type III	<i>AGL</i>	AR	-	-	-	-	✓	✓
Glycogen storage disease type V	<i>PYGM</i>	AR	-	-	-	-	✓	✓
Glycogen storage disease VII	<i>PFKM</i>	AR	-	-	✓	-	✓	✓
Glycogen Storage disease, type 1a	<i>G6PC</i>	AR	-	✓	✓	✓	✓	✓
Glycogen storage disease, type 1b	<i>SLC37A4</i>	AR	-	-	-	✓	✓	✓
Guanidinoacetate methyltransferase deficiency	<i>GAMT</i>	AR	-	-	-	-	✓	✓
Gyrate atrophy of choroid and retina	<i>OAT</i>	AR	-	-	-	-	✓	✓
Hartnup disorder	<i>SLC6A19</i>	AR	-	-	-	-	✓	✓
Hemochromatosis, HFE-related	<i>HFE</i>	AR	-	-	-	-	-	✓
Hemochromatosis, type 2A	<i>HJV (HFE2)</i>	AR	-	-	-	-	✓	✓
Hemochromatosis, type 3	<i>TFR2</i>	AR	-	-	-	-	✓	✓
Hemophagocytic lymphohistiocytosis, familial, 2	<i>PRF1</i>	AR	-	-	-	✓	✓	✓
Hemophilia A	<i>F8</i>	XL	-	-	-	✓	✓	✓
Hemophilia B	<i>F9</i>	XL	-	-	-	✓	✓	✓
Hepatocerebral mitochondrial DNA depletion syndrome, MPV17-related	<i>MPV17</i>	AR	-	-	-	-	✓	✓
Hereditary folate malabsorption	<i>SLC46A1</i>	AR	-	-	-	-	✓	✓
Hereditary fructose intolerance	<i>ALDOB</i>	AR	-	-	-	✓	✓	✓
Hermansky-Pudlak syndrome 1	<i>HPS1</i>	AR	-	-	-	✓	✓	✓
Hermansky-Pudlak syndrome 3	<i>HPS3</i>	AR	-	-	✓	✓	✓	✓

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Holocarboxylase synthetase deficiency	<i>HLCS</i>	AR	-	-	-	-	✓	✓
Homocystinuria due to cystathionine beta-synthase deficiency	<i>CBS</i>	AR	-	-	-	-	✓	✓
Homocystinuria-megaloblastic anemia, cobalamin E type	<i>MTRR</i>	AR	-	-	-	✓	✓	✓
Homocystinuria, MTHFR-related	<i>MTHFR</i>	AR	-	-	-	-	-	✓
Hydroletharus syndrome	<i>HYLS1</i>	AR	-	-	-	-	✓	✓
Hyper IgM syndrome, X-linked	<i>CD40LG</i>	XL	-	-	-	-	✓	✓
Hyperimmunoglobulinemia D syndrome	<i>MVK</i>	AR	-	-	-	✓	✓	✓
Hypermethioninemia due to adenosine kinase deficiency	<i>ADK</i>	AR	-	-	-	-	✓	✓
Hypermethioninemia due to deficiency of S-adenosylhomocysteine hydrolase	<i>AHCY</i>	AR	-	-	-	-	✓	✓
Hyperornithinemia-hyperammonemia-homocitrullinemia syndrome (Triple H syndrome)	<i>SLC25A15</i>	AR	-	-	-	-	✓	✓
Hyperprolinemia type II	<i>ALDH4A1</i>	AR	-	-	-	-	✓	✓
Hypogonadotropic hypogonadism, GNRHR-related	<i>GNRHR</i>	AR	-	-	-	-	✓	✓
Hypohidrotic ectodermal dysplasia	<i>EDA</i>	XL	-	-	-	-	✓	✓
Hypophosphatasia	<i>ALPL</i>	AR	-	-	-	✓	✓	✓
Inclusion body myopathy type 2 (Nonaka myopathy)	<i>GNE</i>	AR	-	-	-	-	✓	✓
Infantile neuroaxonal dystrophy	<i>PLA2G6</i>	AR	-	-	-	-	✓	✓
Isovaleric acidemia	<i>IVD</i>	AR	-	✓	-	-	✓	✓
Joubert syndrome 2; Meckel syndrome 2	<i>TMEM216</i>	AR	-	-	✓	✓	✓	✓
Joubert syndrome 28; Meckel syndrome 1; Bardet-Biedl syndrome 13	<i>MKSI</i>	AR	-	-	-	-	✓	✓
Joubert syndrome 4; Senior-Løken syndrome 1; Nephronophthisis	<i>NPHP1</i>	AR	-	-	-	-	✓	✓
Joubert syndrome 9; Meckel syndrome 6; COACH syndrome	<i>CC2D2A</i>	AR	-	-	-	✓	✓	✓
Joubert syndrome, AHI1-related	<i>AHI1</i>	AR	-	-	-	✓	✓	✓
Joubert syndrome, ARL13B-related	<i>ARL13B</i>	AR	-	-	-	-	✓	✓
Junctional epidermolysis bullosa, LAMA3-related; Laryngo-onycho-cutaneous syndrome	<i>LAMA3</i>	AR	-	-	-	-	✓	✓
Junctional epidermolysis bullosa, LAMB3-related	<i>LAMB3</i>	AR	-	-	-	-	✓	✓
Junctional epidermolysis bullosa, LAMC2-related	<i>LAMC2</i>	AR	-	-	-	-	✓	✓
Juvenile retinoschisis, X-linked	<i>RS1</i>	XL	-	-	-	✓	✓	✓
Krabbe disease	<i>GALC</i>	AR	-	-	-	-	✓	✓

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L1 syndrome	<i>LICAM</i>	XL	-	-	-	✓	✓	✓
Leber congenital amaurosis 2; Retinitis pigmentosa 20	<i>RPE65</i>	AR	-	-	-	-	✓	✓
Leber congenital amaurosis 5	<i>LCA5</i>	AR	-	-	-	-	✓	✓
Leber congenital amaurosis 8; Retinitis pigmentosa 12	<i>CRB1</i>	AR	-	-	-	-	✓	✓
Leber congenital amaurosis type 13	<i>RDH12</i>	AR	-	-	-	-	✓	✓
Leigh syndrome with Complex IV deficiency	<i>LRPPRC</i>	AR	-	-	-	-	✓	✓
Lethal congenital contracture syndrome 1	<i>GLE1</i>	AR	-	-	-	-	✓	✓
Leukoencephalopathy with vanishing white matter	<i>EIF2B5</i>	AR	-	-	-	-	✓	✓
Limb-girdle muscular dystrophy type 2A	<i>CAPN3</i>	AR	-	-	-	-	✓	✓
Limb-girdle muscular dystrophy type 2B	<i>DYSF</i>	AR	-	-	-	-	✓	✓
Limb-girdle muscular dystrophy, type 2C	<i>SGCG</i>	AR	-	-	-	-	✓	✓
Limb-girdle muscular dystrophy, type 2D	<i>SGCA</i>	AR	-	-	-	-	✓	✓
Limb-girdle muscular dystrophy, type 2E	<i>SGCB</i>	AR	-	-	-	-	✓	✓
Limb-girdle muscular dystrophy, type 2F	<i>SGCD</i>	AR	-	-	-	-	✓	✓
Limb-girdle muscular dystrophy, type 2H; Bardet-Biedl syndrome 11	<i>TRIM32</i>	AR	-	-	-	-	✓	✓
Lipoid congenital adrenal hyperplasia	<i>STAR</i>	AR	-	-	-	-	✓	✓
Lissencephaly, X-linked	<i>DCX</i>	XL	-	-	-	-	✓	✓
Liver failure, acute infantile	<i>TRMU</i>	AR	-	-	-	-	✓	✓
Long-chain 3-hydroxyacyl- CoA dehydrogenase (LCHAD) deficiency; Trifunctional protein deficiency	<i>HADHA</i>	AR	-	-	-	-	✓	✓
Lujan-Fryns syndrome, UPF3B- related	<i>UPF3B</i>	XL	-	-	-	-	✓	✓
Lujan-Fryns syndrome, ZDHHC9- related	<i>ZDHHC9</i>	XL	-	-	-	-	✓	✓
Lysinuric protein intolerance	<i>SLC7A7</i>	AR	-	-	-	-	✓	✓
Lysosomal acid lipase deficiency	<i>LIPA</i>	AR	-	-	-	-	✓	✓
Macular corneal dystrophy, CHST6-related	<i>CHST6</i>	AR	-	-	-	-	✓	✓
Maple syrup urine disease type Ia	<i>BCKDHA</i>	AR	-	-	✓	-	✓	✓
Maple syrup urine disease type Ib	<i>BCKDHB</i>	AR	-	-	✓	✓	✓	✓
Maple syrup urine disease, type II	<i>DBT</i>	AR	-	-	-	-	✓	✓
Meckel syndrome 5; Joubert syndrome 7; COACH syndrome	<i>RPGRIP1L</i>	AR	-	-	-	-	✓	✓
Medium-chain acyl-CoA dehydrogenase (MCAD) deficiency	<i>ACADM</i>	AR	-	✓	-	✓	✓	✓

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Megalencephalic leukoencephalopathy with subcortical cysts	<i>MLC1</i>	AR	-	-	-	✓	✓	✓
Menkes disease	<i>ATP7A</i>	XL	-	-	-	-	✓	✓
Mental retardation, X-linked, associated with fragile site FRAXE	<i>AFF2</i>	XL	-	-	-	✓	✓	✓
Metachromatic leukodystrophy	<i>ARSA</i>	AR	-	-	-	✓	✓	✓
Metachromatic leukodystrophy due to saposin-b deficiency	<i>PSAP</i>	AR	-	-	-	-	✓	✓
Methylmalonic acidemia, MUT-related	<i>MUT</i>	AR	-	-	-	✓	✓	✓
Methylmalonic aciduria and homocystinuria, cblC type	<i>MMACHC</i>	AR	-	✓	-	✓	✓	✓
Methylmalonic aciduria and homocystinuria, cblD type	<i>MMADHC</i>	AR	-	-	-	-	✓	✓
Methylmalonic aciduria and homocystinuria, cblF type	<i>LMBRD1</i>	AR	-	-	-	-	✓	✓
Methylmalonic aciduria and homocystinuria, cblJ type	<i>ABCD4</i>	AR	-	-	-	-	✓	✓
Methylmalonic aciduria, cblA type	<i>MMAA</i>	AR	-	-	-	-	✓	✓
Methylmalonic aciduria, cblB type	<i>MMAB</i>	AR	-	-	-	-	✓	✓
Methylmalonyl-CoA epimerase deficiency	<i>MCEE</i>	AR	-	-	-	-	✓	✓
Microcephaly, primary autosomal recessive, 1	<i>MCPH1</i>	AR	-	-	-	✓	✓	✓
Microphthalmia with or without coloboma	<i>VSX2</i>	AR	-	-	-	-	✓	✓
Microphthalmia, isolated 3	<i>RAX</i>	AR	-	-	-	-	✓	✓
Mitochondrial complex I deficiency (Leigh syndrome), NDUFAF5-related	<i>NDUFAF5</i>	AR	-	-	-	-	✓	✓
Mitochondrial complex I deficiency (Leigh syndrome), NDUFS6-related	<i>NDUFS6</i>	AR	-	-	✓	-	✓	✓
Mitochondrial complex IV deficiency, nuclear type 2	<i>SCO2</i>	AR	-	-	-	✓	✓	✓
Mitochondrial myopathy and sideroblastic anemia 1	<i>PUS1</i>	AR	-	-	-	-	✓	✓
Mitochondrial neurogastrointestinal encephalopathy (MNGIE) disease	<i>TYMP</i>	AR	-	-	-	-	✓	✓
Mucopolipidosis III alpha/beta; Mucopolipidosis II alpha/beta	<i>GNPTAB</i>	AR	-	-	-	✓	✓	✓
Mucopolipidosis III gamma	<i>GNPTG</i>	AR	-	-	-	-	✓	✓
Mucopolipidosis IV	<i>MCOLN1</i>	AR	-	-	✓	✓	✓	✓
Mucopolysaccharidosis IIIA (Sanfilippo syndrome A)	<i>SGSH</i>	AR	-	-	-	-	✓	✓
Mucopolysaccharidosis IIID (Sanfilippo syndrome D)	<i>GNS</i>	AR	-	-	-	-	✓	✓
Mucopolysaccharidosis IVA (Morquio syndrome A)	<i>GALNS</i>	AR	-	-	-	-	✓	✓
Mucopolysaccharidosis type II (Hunter syndrome)	<i>IDS</i>	XL	-	-	-	-	✓	✓

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Mucopolysaccharidosis type IIIB (Sanfilippo syndrome B)	<i>NAGLU</i>	AR	-	-	-	-	✓	✓
Mucopolysaccharidosis type IIIC (Sanfilippo syndrome C)	<i>HGSNAT</i>	AR	-	-	-	-	✓	✓
Mucopolysaccharidosis type IVB (Morquio syndrome B); GM1-gangliosidosis	<i>GLB1</i>	AR	-	-	-	-	✓	✓
Mucopolysaccharidosis type IX	<i>HYAL1</i>	AR	-	-	-	-	✓	✓
Mucopolysaccharidosis type VI (Maroteaux-Lamy syndrome)	<i>ARSB</i>	AR	-	-	-	-	✓	✓
Mucopolysaccharidosis type VII	<i>GUSB</i>	AR	-	-	-	-	✓	✓
Mucopolysaccharidosis, type I (Hurler syndrome)	<i>IDUA</i>	AR	-	✓	-	✓	✓	✓
Multiple pterygium syndrome	<i>CHRNA3</i>	AR	-	-	-	-	✓	✓
Multiple sulfatase deficiency	<i>SUMF1</i>	AR	-	-	✓	-	✓	✓
Muscular dystrophy-dystroglycanopathy, FKRP-related	<i>FKRP</i>	AR	-	-	-	✓	✓	✓
Muscular dystrophy-dystroglycanopathy, FKTN-related; Fukuyama congenital muscular dystrophy	<i>FKTN</i>	AR	-	-	✓	✓	✓	✓
Muscular dystrophy-dystroglycanopathy, POMT1-related	<i>POMT1</i>	AR	-	-	-	-	✓	✓
Muscular dystrophy-dystroglycanopathy, POMT2-related	<i>POMT2</i>	AR	-	-	-	-	✓	✓
Muscular dystrophy-dystroglycanopathy; Retinitis pigmentosa 76	<i>POMGNT1</i>	AR	-	-	-	-	✓	✓
Muscular dystrophy, LAMA2-related	<i>LAMA2</i>	AR	-	-	-	-	✓	✓
Myotonia congenita, autosomal dominant; Myotonia congenita, autosomal recessive, Myotonia levior	<i>CLCN1</i>	AR	-	-	-	✓	✓	✓
Myotubular myopathy, X-linked	<i>MTM1</i>	XL	-	-	-	-	✓	✓
N-acetylglutamate synthase deficiency	<i>NAGS</i>	AR	-	-	-	-	✓	✓
Nemaline myopathy	<i>NEB</i>	AR	-	-	✓	✓	✓	✓
Nephrogenic diabetes insipidus	<i>AQP2</i>	AR	-	-	-	-	✓	✓
Neuronal ceroid lipofuscinosis, CLN3-related	<i>CLN3</i>	AR	-	✓	-	-	✓	✓
Neuronal ceroid lipofuscinosis, CLN5-related	<i>CLN5</i>	AR	-	-	-	-	✓	✓
Neuronal ceroid lipofuscinosis, CLN6-related	<i>CLN6</i>	AR	-	-	-	-	✓	✓
Neuronal ceroid lipofuscinosis, CLN8-related	<i>CLN8</i>	AR	-	-	-	-	✓	✓
Neuronal ceroid lipofuscinosis, MFSD8-related	<i>MFSD8</i>	AR	-	-	-	-	✓	✓
Neuronal ceroid lipofuscinosis, PPT1-related	<i>PPT1</i>	AR	-	-	-	-	✓	✓

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Neuronal ceroid lipofuscinosis, TPP1-related	<i>TPP1</i>	AR	-	-	-	-	✓	✓
Niemann-Pick disease, type A/B	<i>SMPD1</i>	AR	-	✓	✓	✓	✓	✓
Niemann-Pick disease, type C1	<i>NPC1</i>	AR	-	-	-	-	✓	✓
Niemann-Pick disease, type C2	<i>NPC2</i>	AR	-	-	-	-	✓	✓
Nijmegen breakage syndrome	<i>NBN</i>	AR	-	-	-	-	✓	✓
Non-syndromic hearing loss, MYO7A-related; Usher syndrome, type 1B	<i>MYO7A</i>	AR	-	-	-	-	✓	✓
Non-syndromic hearing loss, PCDH15-related; Usher syndrome, type 1F	<i>PCDH15</i>	AR/Digenic	-	-	✓	✓	✓	✓
Non-syndromic hearing loss, USH1C-related; Usher syndrome, type 1C	<i>USH1C</i>	AR	-	-	-	-	✓	✓
Nonsyndromic hearing loss, GJB2-related	<i>GJB2</i>	AR	-	-	✓	✓	✓	✓
Nonsyndromic hearing loss, GJB6-related	<i>GJB6</i>	AR	-	-	-	-	✓	✓
Nonsyndromic hearing loss, LOXHD1-related	<i>LOXHD1</i>	AR	-	-	✓	-	✓	✓
Nonsyndromic hearing loss, OTOF-related	<i>OTOF</i>	AR	-	-	-	-	✓	✓
Norrie disease	<i>NDP</i>	XL	-	-	-	-	✓	✓
Omenn syndrome, RAG1-related	<i>RAG1</i>	AR	-	-	-	-	✓	✓
Omenn syndrome, RAG2-related	<i>RAG2</i>	AR	-	-	-	-	✓	✓
Opitz GBBB syndrome, type I	<i>MID1</i>	XL	-	-	-	✓	✓	✓
Ornithine transcarbamylase deficiency	<i>OTC</i>	XL	-	-	-	✓	✓	✓
Osteogenesis imperfecta, type VIII	<i>P3H1</i>	AR	-	-	-	-	✓	✓
Osteopetrosis, TCIRG1-related	<i>TCIRG1</i>	AR	-	-	✓	-	✓	✓
Pantothenate kinase-associated neurodegeneration	<i>PANK2</i>	AR	-	-	-	-	✓	✓
Pendred syndrome	<i>SLC26A4</i>	AR	-	-	-	✓	✓	✓
Peroxisomal acyl-CoA oxidase deficiency	<i>ACOX1</i>	AR	-	-	-	-	✓	✓
Phenylalanine hydroxylase deficiency (Phenylketonuria)	<i>PAH</i>	AR	✓	✓	✓	✓	✓	✓
Phosphoglycerate dehydrogenase deficiency	<i>PHGDH</i>	AR	-	-	✓	-	✓	✓
Phosphoglycerate kinase 1 deficiency	<i>PGK1</i>	AR	-	-	-	-	✓	✓
Polycystic kidney disease, PKHD1-related	<i>PKHD1</i>	AR	-	✓	✓	✓	✓	✓
Pompe disease	<i>GAA</i>	AR	-	✓	✓	✓	✓	✓
Pontocerebellar hypoplasia type 1A	<i>VRK1</i>	AR	-	-	✓	-	✓	✓
Pontocerebellar hypoplasia type 1B	<i>EXOSC3</i>	AR	-	-	-	-	✓	✓
Pontocerebellar hypoplasia type 6	<i>RARS2</i>	AR	-	-	-	✓	✓	✓

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Pontocerebellar hypoplasia, type 2D	<i>SEPSECS</i>	AR	-	-	-	-	✓	✓
Postnatal progressive microcephaly with seizures and brain atrophy	<i>MED17</i>	AR	-	-	-	-	✓	✓
Primary ciliary dyskinesia, DNAH5-related	<i>DNAH5</i>	AR	-	-	✓	-	✓	✓
Primary ciliary dyskinesia, DNAI1-related	<i>DNAI1</i>	AR	-	-	✓	-	✓	✓
Primary ciliary dyskinesia, DNAI2-related	<i>DNAI2</i>	AR	-	-	✓	-	✓	✓
Primary ciliary dyskinesia, DNALI1-related	<i>DNALI1</i>	AR	-	-	-	-	✓	✓
Primary ciliary dyskinesia, type 14	<i>CCDC39</i>	AR	-	-	-	-	✓	✓
Primary ciliary dyskinesia, type 17	<i>CCDC103</i>	AR	-	-	-	-	✓	✓
Primary ciliary dyskinesia, type 30	<i>CCDC151</i>	AR	-	-	-	-	✓	✓
Primary congenital glaucoma	<i>CYP1B1</i>	AR	-	-	-	-	✓	✓
Primary hyperoxaluria type I	<i>AGXT</i>	AR	-	-	-	✓	✓	✓
Primary Hyperoxaluria type II	<i>GRHPR</i>	AR	-	-	-	-	✓	✓
Primary hyperoxaluria type III	<i>HOGA1</i>	AR	-	-	✓	-	✓	✓
Progressive external ophthalmoplegia; Alpers-Huttenlocher syndrome; Ataxia neuropathy spectrum; Myocerebrohepatopathy syndrome	<i>POLG</i>	AR	-	-	-	✓	✓	✓
Progressive Familial Intrahepatic Cholestasis	<i>ABCB11</i>	AR	-	-	-	-	✓	✓
Propionic acidemia, PCCA-related	<i>PCCA</i>	AR	-	-	-	-	✓	✓
Propionic acidemia, PCCB-related	<i>PCCB</i>	AR	-	-	-	-	✓	✓
Prothrombin-related conditions	<i>F2</i>	AR	-	-	-	-	-	✓
Pycnodysostosis	<i>CTSK</i>	AR	-	-	-	-	✓	✓
Pyruvate carboxylase deficiency	<i>PC</i>	AR	-	-	-	-	✓	✓
Pyruvate dehydrogenase E1-alpha deficiency	<i>PDHA1</i>	XL	-	-	-	-	✓	✓
Pyruvate dehydrogenase E1-beta deficiency	<i>PDHB</i>	AR	-	-	-	-	✓	✓
Renal tubular acidosis with deafness	<i>ATP6V1B1</i>	AR	-	-	-	-	✓	✓
Renpenning syndrome	<i>PQBP1</i>	XL	-	-	-	-	✓	✓
Retinitis pigmentosa 25	<i>EYS</i>	AR	-	-	-	-	✓	✓
Retinitis pigmentosa 26	<i>CERKL</i>	AR	-	-	-	-	✓	✓
Retinitis pigmentosa 28	<i>FAM161A</i>	AR	-	-	✓	-	✓	✓
Retinitis pigmentosa 59	<i>DHDDS</i>	AR	-	-	✓	✓	✓	✓
Retinitis Pigmentosa, CNGA1-related	<i>CNGA1</i>	AR	-	-	-	-	✓	✓
Retinitis Pigmentosa, CNGB1-related	<i>CNGB1</i>	AR	-	-	-	-	✓	✓
Retinitis pigmentosa, IDH3B-related	<i>IDH3B</i>	AR	-	-	-	-	✓	✓

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Retinitis pigmentosa, PDE6A-related	<i>PDE6A</i>	AR	-	-	-	-	✓	✓
Rhizomelic chondrodysplasia punctata, type 1	<i>PEX7</i>	AR	✓	✓	-	-	✓	✓
Rhizomelic chondrodysplasia punctata, type 3	<i>AGPS</i>	AR	-	-	-	-	✓	✓
Roberts syndrome	<i>ESCO2</i>	AR	-	-	-	-	✓	✓
Sandhoff disease	<i>HEXB</i>	AR	-	-	-	-	✓	✓
Schimke immunoosseous dysplasia	<i>SMARCAL1</i>	AR	-	-	-	-	✓	✓
Schindler disease type I; Schindler disease type III	<i>NAGA</i>	AR	-	-	-	✓	✓	✓
Schopf-Schulz-Passarge syndrome; Odontoonychodermal dysplasia	<i>WNT10A</i>	AR	-	-	-	-	✓	✓
Segawa syndrome	<i>TH</i>	AR	-	-	-	-	✓	✓
Severe combined immunodeficiency with sensitivity to ionizing radiation	<i>DCLRE1C</i>	AR	-	-	-	-	✓	✓
Severe combined immunodeficiency, JAK3-related	<i>JAK3</i>	AR	-	-	-	-	✓	✓
Severe combined immunodeficiency, X-linked	<i>IL2RG</i>	XL	-	-	-	-	✓	✓
Severe Congenital Neutropenia, HAX1-related	<i>HAX1</i>	AR	-	-	-	-	✓	✓
Severe congenital neutropenia, VPS45-related	<i>VPS45</i>	AR	-	-	-	-	✓	✓
Short branched chain acyl-CoA dehydrogenase (SBCAD) deficiency	<i>ACADSB</i>	AR	-	-	-	-	✓	✓
Short-chain acyl-coA dehydrogenase (SCAD) Deficiency	<i>ACADS</i>	AR	-	-	-	-	✓	✓
Short-rib thoracic dysplasia 3 with or without polydactyly	<i>DYNC2H1</i>	AR	-	-	-	✓	✓	✓
Sialic acid storage disorder	<i>SLC17A5</i>	AR	-	-	-	-	✓	✓
Sickle cell disease; Beta thalassemia	<i>HBB</i>	AR	✓	✓	✓	✓	✓	✓
Sjögren-Larsson syndrome	<i>ALDH3A2</i>	AR	-	-	-	-	✓	✓
Smith-Lemli-Opitz syndrome	<i>DHCR7</i>	AR	-	-	✓	✓	✓	✓
Spastic paraplegia 15	<i>ZFYVE26</i>	AR	-	-	-	-	✓	✓
Spastic paraplegia 2, X-linked (SPG2)	<i>PLP1</i>	XL	-	-	-	✓	✓	✓
Spastic paraplegia 49	<i>TECPR2</i>	AR	-	-	-	-	✓	✓
Spastic paraplegia type 7	<i>SPG7</i>	AR	-	-	-	-	✓	✓
SPG11-related Neuromuscular Disorders	<i>SPG11</i>	AR	-	-	-	-	✓	✓
Spinal muscular atrophy	<i>SMN1</i>	AR	✓	✓	✓	✓	✓	✓
Spinocerebellar ataxia, autosomal recessive 10	<i>ANO10</i>	AR	-	-	-	✓	✓	✓
Spondylocostal dysostosis	<i>MESP2</i>	AR	-	-	-	-	✓	✓

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Condition	Gene	Inheritance	ACOG/ACMG (6 genes [†])	Focus (30 genes [†])	Ashkenzi Jewish (61 genes [†])	ACMG Tier 3 (113 genes [†])	Expanded (427 genes [†])	Expanded Plus (436 genes [†])
Steel syndrome	<i>COL27A1</i>	AR	-	-	-	-	✓	✓
Stuve-Wiedemann syndrome	<i>LIFR</i>	AR	-	-	-	-	✓	✓
Surfactant metabolism dysfunction, pulmonary, 3; Interstitial lung disease	<i>ABCA3</i>	AR	-	-	-	✓	✓	✓
Systemic primary carnitine deficiency	<i>SLC22A5</i>	AR	-	-	-	-	✓	✓
Tay-Sachs disease	<i>HEXA</i>	AR	-	✓	✓	✓	✓	✓
Tetrahydrobiopterin deficiency	<i>PTS</i>	AR	-	-	-	-	✓	✓
Tetrahydrobiopterin deficiency, PCBD1-related	<i>PCBD1</i>	AR	-	-	-	-	✓	✓
Tetrahydrobiopterin deficiency, QDPR-related	<i>QDPR</i>	AR	-	-	-	-	✓	✓
Thiamine metabolism dysfunction syndrome 2 (biotin or thiamine responsive)	<i>SLC19A3</i>	AR	-	-	-	✓	✓	✓
Thyroid dysmorphogenesis, IYD-related	<i>IYD</i>	AR	-	-	-	-	✓	✓
Thyroid dysmorphogenesis, SLC5A5-related	<i>SLC5A5</i>	AR	-	-	-	-	✓	✓
Thyroid dysmorphogenesis, TG-related	<i>TG</i>	AR	-	-	-	-	✓	✓
Thyroid dysmorphogenesis, TPO-related	<i>TPO</i>	AR	-	-	-	-	✓	✓
Treacher Collins syndrome, POLR1C-related	<i>POLR1C</i>	AR	-	-	-	-	✓	✓
Trichohepatoenteric syndrome	<i>TTC37</i>	AR	-	-	-	-	✓	✓
Trichothiodystrophy 1, photosensitive; Xeroderma pigmentosum, group D	<i>ERCC2</i>	AR	-	-	-	✓	✓	✓
Trimethylaminuria	<i>FMO3</i>	AR	-	-	-	✓	✓	✓
Tyrosinemia, type I	<i>FAH</i>	AR	✓	✓	✓	✓	✓	✓
Tyrosinemia, type II	<i>TAT</i>	AR	-	-	-	-	✓	✓
Usher syndrome type 2D	<i>WHRN</i>	AR	-	-	-	-	✓	✓
Usher syndrome type IG	<i>USH1G</i>	AR	-	-	-	-	✓	✓
Usher syndrome, type 1D	<i>CDH23</i>	AR/Digenic	-	-	-	-	✓	✓
Usher syndrome, type 2A	<i>USH2A</i>	AR	-	-	-	✓	✓	✓
Usher syndrome, type 3A	<i>CLRN1</i>	AR	-	-	✓	✓	✓	✓
Very long-chain acyl-CoA dehydrogenase (VLCAD) deficiency	<i>ACADVL</i>	AR	-	-	-	✓	✓	✓
Vitamin D-dependent rickets, type 1A	<i>CYP27B1</i>	AR	-	-	-	✓	✓	✓
Wilson disease	<i>ATP7B</i>	AR	-	-	✓	✓	✓	✓
Wiskott-Aldrich syndrome; Thrombocytopenia, X-linked; Severe Congenital Neutropenia, WAS-related	<i>WAS</i>	XL	-	-	-	-	✓	✓
Wolcott-Rallison syndrome	<i>EIF2AK3</i>	AR	-	-	-	-	✓	✓
X-linked Aarskog-Scott syndrome	<i>FGD1</i>	XL	-	-	-	-	✓	✓

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Condition	Gene	Inheritance	ACOG/ ACMG (6 genes [†])	Focus (30 genes [†])	Ashkenzi Jewish (61 genes [†])	ACMG Tier 3 (113 genes [†])	Expanded (427 genes [†])	Expanded Plus (436 genes [†])
X-linked epilepsy with variable learning disabilities	<i>SYN1</i>	XL	-	-	-	-	✓	✓
X-linked hearing loss, POU3F4-related	<i>POU3F4</i>	XL	-	-	-	-	✓	✓
X-linked intellectual disability with cerebellar hypoplasia and distinctive facial appearance	<i>OPHN1</i>	XL	-	-	-	-	✓	✓
X-linked Intellectual disability, AP1S2-related	<i>AP1S2</i>	XL	-	-	-	-	✓	✓
X-linked intellectual disability, ARX-related	<i>ARX</i>	XL	-	-	-	✓	✓	✓
X-linked intellectual disability, BRWD3-related	<i>BRWD3</i>	XL	-	-	-	-	✓	✓
X-linked intellectual disability, CUL4B-related	<i>CUL4B</i>	XL	-	-	-	-	✓	✓
X-linked intellectual disability, DLG3-related	<i>DLG3</i>	XL	-	-	-	-	✓	✓
X-linked intellectual disability, FTSJ1-related	<i>FTSJ1</i>	XL	-	-	-	-	✓	✓
X-linked intellectual disability, IL1RAPL1-related	<i>IL1RAPL1</i>	XL	-	-	-	-	✓	✓
X-linked intellectual disability, KDM5C-related	<i>KDM5C</i>	XL	-	-	-	-	✓	✓
X-linked intellectual disability, PAK3-related	<i>PAK3</i>	XL	-	-	-	-	✓	✓
X-linked intellectual disability, PHF8 Siderius type	<i>PHF8</i>	XL	-	-	-	-	✓	✓
X-linked Intellectual disability, THOC2-related	<i>THOC2</i>	XL	-	-	-	-	✓	✓
X-linked intellectual disability, ZNF711-related	<i>ZNF711</i>	XL	-	-	-	-	✓	✓
X-linked Ocular albinism, GPR143-related	<i>GPR143</i>	XL	-	-	-	-	✓	✓
X-linked Retinitis pigmentosa, RP2-related	<i>RP2</i>	XL	-	-	-	-	✓	✓
X-linked Retinitis pigmentosa, RPGR-related	<i>RPGR</i>	XL	-	-	-	✓	✓	✓
Xeroderma pigmentosum, group A	<i>XPA</i>	AR	-	-	-	-	✓	✓
Xeroderma pigmentosum, group C	<i>XPC</i>	AR	-	-	-	✓	✓	✓
Zellweger syndrome, PEX1-related	<i>PEX1</i>	AR	-	✓	-	-	✓	✓
Zellweger syndrome, PEX10-related	<i>PEX10</i>	AR	-	-	-	-	✓	✓
Zellweger syndrome, PEX12-related	<i>PEX12</i>	AR	-	-	-	-	✓	✓
Zellweger syndrome, PEX2-related	<i>PEX2</i>	AR	-	-	✓	-	✓	✓
Zellweger syndrome, PEX6-related	<i>PEX6</i>	AR	-	-	-	-	✓	✓

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