

Panel UCI: para el diagnóstico más temprano y rápido

Está diseñado para diagnosticar afecciones genéticas que se presentan en el período del recién nacido o la primera infancia. Muchos de estos tienen fenotipos superpuestos y el diagnóstico puede tener implicaciones inmediatas para el tratamiento de recién nacidos y niños.

¿Qué es Panel UCI?

Los recién nacidos y los niños menores de 24 meses que presentan afecciones potencialmente mortales necesitan un diagnóstico rápido y preciso para garantizar un diagnóstico y un inicio terapéutico rápidos y eficaces.

Hasta un tercio de todos los bebés y niños ingresados en la UCI tienen una enfermedad genética. Para muchos de ellos, la identificación temprana puede marcar la diferencia para su salud inmediata y posterior.

Panel UCI es un panel completo de NGS que incluye más de 800 genes, seleccionados explícitamente para las pruebas genéticas de recién nacidos en estado crítico y niños menores de 24 meses. Está diseñado para abordar múltiples afecciones genéticas que pueden presentarse en el recién nacido o en el período de la primera infancia, muchas de ellas con fenotipos superpuestos e implicaciones inmediatas para el inicio del tratamiento. Permite a los médicos utilizar una sola prueba para proporcionar un diagnóstico preciso de las enfermedades relacionadas con el recién nacido.

No. de genes:	855
Entrega:	15 días / 10 días (opción rápida)
Cobertura:	≥99.5% ≥20x Cobertura media con profundidad ≥ 150 x
Detalles:	Secuenciación de próxima generación.

Resumen de genes y enfermedades asociadas (OMIM) incluidos en este panel

Genes	OMIM (Gen)	Enfermedades asociadas (OMIM)	Herencia
AARS1	601065	<i>Trichothiodystrophy 8, nonphotosensitive;Charcot-Marie-Tooth disease, axonal, type 2N;Developmental and epileptic encephalopathy 29;?Leukoencephalopathy, hereditary diffuse, with spheroids 2</i>	AR, AD
AARS2	612035	<i>Combined oxidative phosphorylation deficiency 8;Leukoencephalopathy, progressive, with ovarian failure</i>	AR
AASS	605113	<i>Hyperlysinemia</i>	AR
ABAT	137150	<i>GABA-transaminase deficiency</i>	AR
ABCA12	607800	<i>Ichthyosis, congenital, AR 4A;Ichthyosis, congenital, AR 4B (harlequin)</i>	AR
ABCA3	601615	<i>Surfactant metabolism dysfunction, pulmonary, 3</i>	AR
ABCB11	603201	<i>Cholestasis, benign recurrent intrahepatic, 2;Cholestasis, progressive familial intrahepatic 2</i>	AR
ABCC8	600509	<i>Diabetes mellitus, transient neonatal 2;Diabetes mellitus, noninsulin-dependent;Hyperinsulinemic hypoglycemia, familial, 1;Hypoglycemia of infancy, leucine-sensitive;Diabetes mellitus, permanent neonatal 3, with or without neurologic features</i>	AD, AD, AR
ABCD1	300371	<i>Adrenoleukodystrophy;Adrenomyeloneuropathy, adult</i>	XLR
ABCD3	170995	<i>?Bile acid synthesis defect, congenital, 5</i>	AR
ABCD4	603214	<i>Methylmalonic aciduria and homocystinuria, cblJ type</i>	AR
ACAD8	604773	<i>Isobutyryl-CoA dehydrogenase deficiency</i>	AR
ACAD9	611103	<i>Mi complex I deficiency, nuclear type 20</i>	AR
ACADM	607008	<i>Acyl-CoA dehydrogenase, medium chain, deficiency of</i>	AR
ACADS	606885	<i>Acyl-CoA dehydrogenase, short-chain, deficiency of</i>	AR
ACADSB	600301	<i>2-methylbutyrylglucosaminuria</i>	AR
ACADVL	609575	<i>VLCAD deficiency</i>	AR
ACAT1	607809	<i>Alpha-methylacetoacetic aciduria</i>	AR

ACO2	100850	?Optic atrophy 9;Infantile cerebellar-retinal degeneration	AR
ACOX1	609751	Peroxisomal acyl-CoA oxidase deficiency;Mitchell syndrome	AR, AD
ACSF3	614245	Combined malonic and methylmalonic aciduria	
ACTA1	102610	Nemaline myopathy 3, AD or recessive;?Myopathy, scapulohumeroperoneal;Myopathy, congenital, with fiber-type disproportion 1;Myopathy, actin, congenital, with cores;Myopathy, actin, congenital, with excess of thin myofilaments	AD, AR, AD
ACY1	104620	Aminoacylase 1 deficiency	AR
ADA	608958	Adenosine deaminase deficiency, partial;Severe combined immunodeficiency due to ADA deficiency	AR, SM
ADAMTS13	604134	Thrombotic thrombocytopenic purpura, hereditary	AR
ADAMTSL2	612277	Geleophysic dysplasia 1	AR
ADAR	146920	Aicardi-Goutieres syndrome 6;Dyschromatosis symmetrica hereditaria	AR, AD
ADK	102750	Hypermethioninemia due to adenosine kinase deficiency	AR
ADNP	611386	Helsmoortel-van der Aa syndrome	AD
ADSL	608222	Adenylosuccinase deficiency	AR
AGA	613228	Aspartylglucosaminuria	AR
AGK	610345	Sengers syndrome;Cataract 38, AR	AR
AGL	610860	Glycogen storage disease IIIb;Glycogen storage disease IIIa	AR
AGPAT2	603100	Lipodystrophy, congenital generalized, type 1	AR
AGPS	603051	Rhizomelic chondrodysplasia punctata, type 3	AR
AGRN	103320	Myasthenic syndrome, congenital, 8, with pre- and postsynaptic defects	AR
AGXT	604285	Hyperoxaluria, primary, type 1	AR
AHCY	180960	Hypermethioninemia with deficiency of S-adenosylhomocysteine hydrolase	AR
AICDA	605257	Immunodeficiency with hyper-IgM, type 2	AR

AIFM1	300169	<i>Cowchock syndrome; Combined oxidative phosphorylation deficiency 6; Deafness, XL 5; Spondyloepimetaphyseal dysplasia, XL, with hypomyelinating leukodystrophy</i>	XLR
AIMP1	603605	<i>Leukodystrophy, hypomyelinating, 3</i>	AR
AKAP9	604001	<i>?Long QT syndrome 11</i>	AD
AKR1D1	604741	<i>Bile acid synthesis defect, congenital, 2</i>	AR
AKT2	164731	<i>Diabetes mellitus, type II; Hypoinsulinemic hypoglycemia with hemihypertrophy</i>	AD
ALAD	125270	<i>Porphyria, acute hepatic; Lead poisoning, susceptibility to</i>	AR
ALAS2	301300	<i>Protoporphyrin, erythropoietic, XL; Anemia, sideroblastic, 1</i>	XL, XLR
ALDH18A1	138250	<i>Cutis laxa, AD 3; Cutis laxa, AR, type IIIA; Spastic paraplegia 9B, AR; Spastic paraplegia 9A, AD</i>	AD, AR
ALDH3A2	609523	<i>Sjogren-Larsson syndrome</i>	AR
ALDH4A1	606811	<i>Hyperprolinemia, type II</i>	AR
ALDH5A1	610045	<i>Succinic semialdehyde dehydrogenase deficiency</i>	AR
ALDH6A1	603178	<i>Methylmalonate semialdehyde dehydrogenase deficiency</i>	AR
ALDH7A1	107323	<i>Epilepsy, pyridoxine-dependent</i>	AR
ALDOA	103850	<i>Glycogen storage disease XII</i>	AR
ALDOB	612724	<i>Fructose intolerance, hereditary</i>	AR
ALG1	605907	<i>Congenital disorder of glycosylation, type I_k</i>	AR
ALG11	613666	<i>Congenital disorder of glycosylation, type I_p</i>	AR
ALG12	607144	<i>Congenital disorder of glycosylation, type I_g</i>	AR
ALG13	300776	<i>?Congenital disorder of glycosylation, type I_s; Developmental and epileptic encephalopathy 36</i>	XL
ALG14	612866	<i>Intellectual developmental disorder with epilepsy, behavioral abnormalities, and coarse facies; ?Myasthenic syndrome, congenital, 15, without tubular aggregates; Myopathy, epilepsy, and progressive cerebral atrophy</i>	AR

ALG2	607905	?Congenital disorder of glycosylation, type li;Myasthenic syndrome, congenital, 14, with tubular aggregates	AR
ALG3	608750	Congenital disorder of glycosylation, type ld	AR
ALG6	604566	Congenital disorder of glycosylation, type lc	AR
ALG8	608103	Polycystic liver disease 3 with or without kidney cysts;Congenital disorder of glycosylation, type lh	AD, AR
ALG9	606941	Congenital disorder of glycosylation, type ll;Gillessen-Kaesbach-Nishimura syndrome	AR
ALOX12B	603741	Ichthyosis, congenital, AR 2	AR
ALOXE3	607206	Ichthyosis, congenital, AR 3	AR
ALPL	171760	Hypophosphatasia, infantile;Odontohypophosphatasia;Hypophosphatasia, childhood;Hypophosphatasia, adult	AR, AD, AR
ALS2	606352	Amyotrophic lateral sclerosis 2, juvenile;Spastic paralysis, infantile onset ascending;Primary lateral sclerosis, juvenile	AR
AMACR	604489	Bile acid synthesis defect, congenital, 4;Alpha-methylacyl-CoA racemase deficiency	AR
AMN	605799	Imlerslund-Grasbeck syndrome 2	AR
AMPD1	102770	Myopathy due to myoadenylate deaminase deficiency	AR
AMT	238310	Glycine encephalopathy	AR
ANK1	612641	Spherocytosis, type 1	AD, AR
ANKRD26	610855	Thrombocytopenia 2	AD
ANKS6	615370	Nephronophthisis 16	AR
ANTXR1	606410	?Hemangioma, capillary infantile, susceptibility to;GAPO syndrome	AD, AR
ANTXR2	608041	Hyaline fibromatosis syndrome	AR
AP2S1	602242	Hypocalciuric hypercalcemia, type III	AD
AP4B1	607245	Spastic paraplegia 47, AR	AR
AP4E1	607244	Stuttering, familial persistent, 1;Spastic paraplegia 51, AR	AD, AR
AP4M1	602296	Spastic paraplegia 50, AR	AR
AP4S1	607243	Spastic paraplegia 52, AR	AR
APOB	107730	Hypobetalipoproteinemia;Hypercholesterolemia, familial, 2	AR, AD

APTX	606350	Ataxia, early-onset, with oculomotor apraxia and hypoalbuminemia	AR
ARG1	608313	Argininemia	AR
ARL6	608845	Retinitis pigmentosa 55;Bardet-Biedl syndrome 1, modifier of;Bardet-Biedl syndrome 3	AR, AR, DR
ARSA	607574	Metachromatic leukodystrophy	AR
ARSB	611542	Mucopolysaccharidosis type VI (Maroteaux-Lamy)	AR
ARX	300382	Developmental and epileptic encephalopathy 1;Mental retardation, XL 29 and others;Hydranencephaly with abnormal genitalia;Partington syndrome;Lissencephaly, XL 2;Proud syndrome	XLR, XL
ASAH1	613468	Spinal muscular atrophy with progressive myoclonic epilepsy;Farber lipogranulomatosis	AR
ASL	608310	Argininosuccinic aciduria	AR
ASNS	108370	Asparagine synthetase deficiency	AR
ASPA	608034	Canavan disease	AR
ASPM	605481	Microcephaly 5, primary, AR	AR
ASS1	603470	Citrullinemia	AR
ATIC	601731	AICA-ribosiduria due to ATIC deficiency	AR
ATP1A3	182350	Alternating hemiplegia of childhood 2;Dystonia-12;Developmental and epileptic encephalopathy 99;CAPOS syndrome	AD
ATP6V0A2	611716	Cutis laxa, AR, type IIA;Wrinkly skin syndrome	AR
ATP6V1B1	192132	Distal renal tubular acidosis 2 with progressive sensorineural hearing loss	AR
ATP7A	300011	Menkes disease;Occipital horn syndrome;Spinal muscular atrophy, distal, XL 3	XLR
ATP7B	606882	Wilson disease	AR
ATP8B1	602397	Cholestasis, progressive familial intrahepatic 1;Cholestasis, intrahepatic, of pregnancy, 1;Cholestasis, benign recurrent intrahepatic	AR, AD
ATPAF2	608918	?Mi complex V (ATP synthase) deficiency, nuclear type 1	AR

ATR	601215	?Cutaneous telangiectasia and cancer syndrome, familial;Seckel syndrome 1	AD, AR
ATRX	300032	Mental retardation-hypotonic facies syndrome, XL;Alpha-thalassemia/mental retardation syndrome;Alpha-thalassemia myelodysplasia syndrome, somatic	XLR, XLD
AUH	600529	3-methylglutaconic aciduria, type I	AR
B3GLCT	610308	Peters-plus syndrome	AR
B4GALT1	137060	Congenital disorder of glycosylation, type II d	AR
BCAP31	300398	Deafness, dystonia, and cerebral hypomyelination	XLR
BCKDHA	608348	Maple syrup urine disease, type Ia	AR
BCKDHB	248611	Maple syrup urine disease, type Ib	AR
BCKDK	614901	Branched-chain ketoacid dehydrogenase kinase deficiency	
BCS1L	603647	GRACILE syndrome;Bjornstad syndrome;Mi complex III deficiency, nuclear type 1	AR
BICD2	609797	Spinal muscular atrophy, lower extremity-predominant, 2A, AD;Spinal muscular atrophy, lower extremity-predominant, 2B, AD	AD
BIN1	601248	Centronuclear myopathy 2	AR
BLNK	604515	?Agammaglobulinemia 4	AR
BOLA3	613183	Multiple Mi dysfunctions syndrome 2 with hyperglycinemia	AR
BRAF	164757	Cardiofaciocutaneous syndrome;Adenocarcinoma of lung, somatic;Noonan syndrome 7;Colorectal cancer, somatic;Melanoma, malignant, somatic,;LEOPARD syndrome 3	AD
BRAT1	614506	Neurodevelopmental disorder with cerebellar atrophy and with or without seizures;Rigidity and multifocal seizure syndrome, lethal neonatal	AR
BRCA2	600185	Prostate cancer;Breast-ovarian cancer, familial, 2;Glioblastoma 3;Wilms tumor;Pancreatic cancer 2;Breast cancer, male, susceptibility to;Fanconi anemia, complementation group D1;Medulloblastoma	AD, SM, AD, AR, AD, AR, SM

BSCL2	606158	<i>Lipodystrophy, congenital generalized, type 2;Encephalopathy, progressive, with or without lipodystrophy;Silver spastic paraplegia syndrome;Neuropathy, distal hereditary motor, type VC</i>	AR, AD
BSND	606412	<i>Barter syndrome, type 4a;Sensorineural deafness with mild renal dysfunction</i>	AR
BTD	609019	<i>Biotinidase deficiency</i>	AR
BTK	300300	<i>Agammaglobulinemia, XL 1;Isolated growth hormone deficiency, type III, with agammaglobulinemia</i>	XLR
CA12	603263	<i>Hyperchlorhidrosis, isolated</i>	AR
CACNA1C	114205	<i>Long QT syndrome 8;Brugada syndrome 3;Timothy syndrome</i>	AD
CACNB2	600003	<i>Brugada syndrome 4</i>	
CALM1	114180	<i>Long QT syndrome 14;Ventricular tachycardia, catecholaminergic polymorphic, 4</i>	AD
CAMTA1	611501	<i>Cerebellar ataxia, nonprogressive, with mental retardation</i>	AD
CASK	300172	<i>Mental retardation, with or without nystagmus;Mental retardation and microcephaly with pontine and cerebellar hypoplasia;FG syndrome 4</i>	XLD
CASR	601199	<i>Epilepsy idiopathic generalized, susceptibility to, 8;Hypocalcemia, AD, with Bartter syndrome;Hypocalciuric hypercalcemia, type I;Hyperparathyroidism, neonatal;Hypocalcemia, AD</i>	AD, AD, AR
CAST	114090	<i>Peeling skin with leukonychia, acral punctate keratoses, cheilitis, and knuckle pads</i>	AR
CAV1	601047	<i>Pulmonary hypertension, primary, 3;Lipodystrophy, familial partial, type 7;?Lipodystrophy, congenital generalized, type 3</i>	AD, AR

CAV3	601253	<i>Rippling muscle disease 2;Cardiomyopathy, familial hypertrophic;Creatine phosphokinase, elevated serum;Long QT syndrome 9;Myopathy, distal, Tateyama type</i>	AD, AD, DD
CAVIN1	603198	<i>Lipodystrophy, congenital generalized, type 4</i>	AR
CBS	613381	<i>Thrombosis, hyperhomocysteinemic;Homocystinuria, B6-responsive and nonresponsive types</i>	AR
CCDC103	614677	<i>Ciliary dyskinesia, primary, 17</i>	AR
CCDC78	614666	<i>?Centronuclear myopathy 4</i>	AD
CD19	107265	<i>Immunodeficiency, common variable, 3</i>	AR
CD247	186780	<i>?Immunodeficiency 25</i>	AR
CD320	606475	<i>Methylmalonic aciduria, transient, due to transcobalamin receptor defect</i>	
CD3D	186790	<i>Immunodeficiency 19</i>	AR
CD3E	186830	<i>Immunodeficiency 18, SCID variant;Immunodeficiency 18</i>	AR
CD3G	186740	<i>Immunodeficiency 17, CD3 gamma deficient</i>	AR
CD40	109535	<i>Immunodeficiency with hyper-IgM, type 3</i>	AR
CD40LG	300386	<i>Immunodeficiency, XL, with hyper-IgM</i>	XLR
CD59	107271	<i>Hemolytic anemia, CD59-mediated, with or without immune-mediated polyneuropathy</i>	AR
CD79A	112205	<i>Agammaglobulinemia 3</i>	AR
CD79B	147245	<i>Agammaglobulinemia 6</i>	AR
CD81	186845	<i>Immunodeficiency, common variable, 6</i>	AR
CD96	606037	<i>C syndrome</i>	AD
CDAN1	607465	<i>Dyserythropoietic anemia, congenital, type Ia</i>	AR
CDCA8	609977		
CDK5RAP2	608201	<i>Microcephaly 3, primary, AR</i>	AR
CDKL5	300203	<i>Developmental and epileptic encephalopathy 2</i>	XLD
CDKN1C	600856	<i>IMAGE syndrome;Beckwith-Wiedemann syndrome</i>	AD

CENPJ	609279	?Seckel syndrome 4;Microcephaly 6, primary, AR	AR
CEP152	613529	Microcephaly 9, primary, AR;Seckel syndrome 5	AR
CEP290	610142	Leber congenital amaurosis 10;Meckel syndrome 4;?Bardet-Biedl syndrome 14;Senior-Loken syndrome 6;Joubert syndrome 5	AR
CERS3	615276	Ichthyosis, congenital, AR 9	AR
CFAP298	615494	Ciliary dyskinesia, primary, 26	AR
CFH	134370	Basal laminar drusen;Macular degeneration, age-related, 4;Hemolytic uremic syndrome, atypical, susceptibility to, 1;Complement factor H deficiency	AD, AD, AR
CFHR3	605336	Macular degeneration, age-related, reduced risk of;Hemolytic uremic syndrome, atypical, susceptibility to	AD, AD, AR
CFL2	601443	Nemaline myopathy 7, AR	AR
CFTR	602421	Congenital bilateral absence of vas deferens;Pancreatitis, hereditary;Bronchiectasis with or without elevated sweat chloride 1, modifier of;Cystic fibrosis	AR, AD
CHAT	118490	Myasthenic syndrome, congenital, 6, presynaptic	AR
CHD7	608892	CHARGE syndrome;Hypogonadotropic hypogonadism 5 with or without anosmia	AD
CHKB	612395	Muscular dystrophy, congenital, megaconial type	AR
CHM	300390	Choroideremia	XL
CHRNA1	100690	Myasthenic syndrome, congenital, 1B, fast-channel;Myasthenic syndrome, congenital, 1A, slow-channel;Multiple pterygium syndrome, lethal type	AD, AR, AD, AR
CHRNA1	100710	Myasthenic syndrome, congenital, 2A, slow-channel;?Myasthenic syndrome, congenital, 2C, associated with acetylcholine receptor deficiency	AD, AR

CHRND	100720	?Myasthenic syndrome, congenital, 3A, slow-channel;Myasthenic syndrome, congenital, 3B, fast-channel;Multiple pterygium syndrome, lethal type;?Myasthenic syndrome, congenital, 3C, associated with acetylcholine receptor deficiency	AD, AR
CHRNE	100725	Myasthenic syndrome, congenital, 4C, associated with acetylcholine receptor deficiency;Myasthenic syndrome, congenital, 4A, slow-channel;Myasthenic syndrome, congenital, 4B, fast-channel	AR, AD, AR
CLCN1	118425	Myotonia congenita, dominant;Myotonia congenita, recessive	AD, AR
CLCNKA	602024	Bartter syndrome, type 4b, digenic	DR
CLCNKB	602023	Bartter syndrome, type 3;Bartter syndrome, type 4b, digenic	AR, DR
CLDN16	603959	Hypomagnesemia 3, renal	AR
CLN3	607042	Ceroid lipofuscinosis, neuronal, 3	AR
CLN5	608102	Ceroid lipofuscinosis, neuronal, 5	AR
CLN6	606725	Ceroid lipofuscinosis, neuronal, Kufs type, adult onset;Ceroid lipofuscinosis, neuronal, 6	AR
CLN8	607837	Ceroid lipofuscinosis, neuronal, 8;Ceroid lipofuscinosis, neuronal, 8, Northern epilepsy variant	AR
CLPB	616254	3-methylglutaconic aciduria, type VII, with cataracts, neurologic involvement and neutropenia	AR
CNTN1	600016	?Myopathy, congenital, Compton-North	AR
COA5	613920	?Mi complex IV, deficiency, nuclear type 9	AR
COG1	606973	Congenital disorder of glycosylation, type IIg	AR
COG6	606977	Shaheen syndrome;Congenital disorder of glycosylation, type III	AR
COG7	606978	Congenital disorder of glycosylation, type IIe	AR
COL11A1	120280	Marshall syndrome;Fibrochondrogenesis 1;Lumbar disc herniation, susceptibility to;?Deafness, AD 37;Stickler syndrome, type II	AD, AR

COL17A1	113811	<i>Epithelial recurrent erosion dystrophy;Epidermolysis bullosa, junctional, localisata variant;Epidermolysis bullosa, junctional, non-Herlitz type</i>	AD, AR
COL1A1	120150	<i>Ehlers-Danlos syndrome, arthrochalasia type, 1;Bone mineral density variation QTL, osteoporosis;Osteogenesis imperfecta, type III;Osteogenesis imperfecta, type I;Caffey disease;Osteogenesis imperfecta, type IV;Combined osteogenesis imperfecta and Ehlers-Danlos syndrome 1;Osteogenesis imperfecta, type II</i>	AD
COL1A2	120160	<i>Osteoporosis, postmenopausal;Ehlers-Danlos syndrome, cardiac valvular type;Ehlers-Danlos syndrome, arthrochalasia type, 2;Osteogenesis imperfecta, type III;Osteogenesis imperfecta, type IV;Combined osteogenesis imperfecta and Ehlers-Danlos syndrome 2;Osteogenesis imperfecta, type II</i>	AD, AR
COL2A1	120140	<i>Legg-Calve-Perthes disease;Stickler syndrome, type I;Osteoarthritis with mild chondrodysplasia;Platyspondylic skeletal dysplasia, Torrance type;Spondyloepiphyseal dysplasia, Stanescu type;Kniest dysplasia;Czech dysplasia;Stickler syndrome, type I, nonsyndromic ocular;?Vitreoretinopathy with phalangeal epiphyseal dysplasia;?Epiphyseal dysplasia, multiple, with myopia and deafness;Avascular necrosis of the femoral head;Spondyloperipheral dysplasia;Achondrogenesis, type II or hypochondrogenesis;SMED Strudwick type;SED congenita</i>	AD
COL3A1	120180	<i>Ehlers-Danlos syndrome, vascular type;Polymicrogyria with or without vascular-type EDS</i>	AD, AR

COL5A2	120190	<i>Ehlers-Danlos syndrome, classic type, 2</i>	AD
COL6A1	120220	<i>Bethlem myopathy 1;Ullrich congenital muscular dystrophy 1</i>	AD, AR
COL6A2	120240	<i>Bethlem myopathy 1;Ullrich congenital muscular dystrophy 1;?Myosclerosis, congenital</i>	AD, AR, AR
COL6A3	120250	<i>Dystonia 27;Ullrich congenital muscular dystrophy 1;Bethlem myopathy 1</i>	AR, AD, AR
COL7A1	120120	<i>Epidermolysis bullosa dystrophica, AR;Epidermolysis bullosa dystrophica, AD;Epidermolysis bullosa pruriginosa;Transient bullous of the newborn;Epidermolysis bullosa, pretibial;Toenail dystrophy, isolated;EBD, Bart type;EBD inversa</i>	AR, AD, AD, AR
COLQ	603033	<i>Myasthenic syndrome, congenital, 5</i>	AR
COMP	600310	<i>Carpal tunnel syndrome 2;Epiphyseal dysplasia, multiple, 1;Pseudoachondroplasia</i>	AD
COQ2	609825	<i>Coenzyme Q10 deficiency, primary, 1;Multiple system atrophy, susceptibility to</i>	AR, AD, AR
COQ8A	606980	<i>Coenzyme Q10 deficiency, primary, 4</i>	AR
COQ9	612837	<i>Coenzyme Q10 deficiency, primary, 5</i>	AR
CORO1A	605000	<i>Immunodeficiency 8</i>	AR
COX10	602125	<i>Mi complex IV deficiency, nuclear type 3</i>	AR
COX15	603646	<i>Mi complex IV deficiency, nuclear type 6</i>	AR
COX20	614698	<i>Mi complex IV deficiency, nuclear type 11</i>	AR
COX6B1	124089	<i>Mi complex IV deficiency, nuclear type 7</i>	AR
CPS1	608307	<i>Carbamoylphosphate synthetase I deficiency;Pulmonary hypertension, neonatal, susceptibility to</i>	AR
CPT1A	600528	<i>CPT deficiency, hepatic, type IA</i>	AR

CPT2	600650	CPT II deficiency, myopathic, stress-induced;CPT II deficiency, infantile;Encephalopathy, acute, infection-induced, 4, susceptibility to;CPT II deficiency, lethal neonatal	AD, AR, AR
CR2	120650	Immunodeficiency, common variable, 7;Systemic lupus erythematosus, susceptibility to, 9	AR
CRPPA	614631	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 7;Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 7	AR
CRTAP	605497	Osteogenesis imperfecta, type VII	AR
CTNS	606272	Cystinosis, late-onset juvenile or adolescent nephropathic;Cystinosis, ocular nonnephropathic;Cystinosis, nephropathic;Cystinosis, atypical nephropathic	AR
CTPS1	123860	Immunodeficiency 24	AR
CTSA	613111	Galactosialidosis	AR
CTSD	116840	Ceroid lipofuscinosis, neuronal, 10	AR
CUL4B	300304	Mental retardation, XL, syndromic 15 (Cabezas type)	XLR
CXCR4	162643	WHIM syndrome	AD
CYP11B1	610613	Adrenal hyperplasia, congenital, due to 11-beta-hydroxylase deficiency;Aldosteronism, glucocorticoid-remediable	AR, AD
CYP11B2	124080	Hypoaldosteronism, congenital, due to CMO II deficiency;Hypoaldosteronism, congenital, due to CMO I deficiency	AR
CYP17A1	609300	17,20-lyase deficiency, isolated;17-alpha-hydroxylase/17,20-lyase deficiency	AR
CYP4F22	611495	Ichthyosis, congenital, AR 5	AR
CYP7B1	603711	Spastic paraplegia 5A, AR;Bile acid synthesis defect, congenital, 3	AR
D2HGDH	609186	D-2-hydroxyglutaric aciduria	AR
DBT	248610	Maple syrup urine disease, type II	AR
DCLRE1C	605988	Omenn syndrome;Severe combined immunodeficiency, Athabascan type	AR

DDC	107930	Aromatic L-amino acid decarboxylase deficiency	AR
DDOST	602202	?Congenital disorder of glycosylation, type I _r	AR
DDR2	191311	Spondylometaphyseal dysplasia, short limb-hand type;Warburg-Cinotti syndrome	AR, AD
DEPDC5	614191	Epilepsy, familial focal, with variable foci 1	AD
DES	125660	Cardiomyopathy, dilated, 1I;Myopathy, myofibrillar, 1;Scapuloperoneal syndrome, neurogenic, Kaeser type	AD, AD, AR
DGUOK	601465	Portal hypertension, noncirrhotic;Progressive external ophthalmoplegia with Mi DNA deletions, AR 4;Mi DNA depletion syndrome 3 (hepatocerebral type)	AR
DHCR24	606418	Desmosterolosis	AR
DHCR7	602858	Smith-Lemli-Opitz syndrome	AR
DIAPH1	602121	Seizures, cortical blindness, microcephaly syndrome;Deafness, AD 1, with or without thrombocytopenia	AR, AD
DLAT	608770	Pyruvate dehydrogenase E2 deficiency	AR
DLD	238331	Dihydrolipoamide dehydrogenase deficiency	AR
DMD	300377	Cardiomyopathy, dilated, 3B;Duchenne muscular dystrophy;Becker muscular dystrophy	XL, XLR
DNA2	601810	?Seckel syndrome 8;Progressive external ophthalmoplegia with Mi DNA deletions, AD 6	AR, AD
DNAH11	603339	Ciliary dyskinesia, primary, 7, with or without situs inversus	AR
DNAH5	603335	Ciliary dyskinesia, primary, 3, with or without situs inversus	AR
DNAI1	604366	Ciliary dyskinesia, primary, 1, with or without situs inversus	AR
DNAI2	605483	Ciliary dyskinesia, primary, 9, with or without situs inversus	AR
DNAJC19	608977	3-methylglutaconic aciduria, type V	AR

<i>DNM2</i>	602378	<i>Lethal congenital contracture syndrome 5;Charcot-Marie-Tooth disease, axonal type 2M;Charcot-Marie-Tooth disease, dominant intermediate B;Centronuclear myopathy 1</i>	AR, AD
<i>DOCK7</i>	615730	<i>Developmental and epileptic encephalopathy 23</i>	AR
<i>DOCK8</i>	611432	<i>Hyper-IgE recurrent infection syndrome, AR</i>	AR
<i>DOK7</i>	610285	<i>Fetal akinesia deformation sequence 3;Myasthenic syndrome, congenital, 10</i>	AR
<i>DOLK</i>	610746	<i>Congenital disorder of glycosylation, type Im</i>	AR
<i>DPAGT1</i>	191350	<i>Myasthenic syndrome, congenital, 13, with tubular aggregates;Congenital disorder of glycosylation, type Ij</i>	AR
<i>DPM2</i>	603564	<i>Congenital disorder of glycosylation, type lu</i>	AR
<i>DPYD</i>	612779	<i>5-fluorouracil toxicity;Dihydropyrimidine dehydrogenase deficiency</i>	AR
<i>DRC1</i>	615288	<i>Ciliary dyskinesia, primary, 21</i>	AR
<i>DSP</i>	125647	<i>Cardiomyopathy, dilated, with woolly hair and keratoderma;Arrhythmogenic right ventricular dysplasia 8;Keratosis palmoplantaris striata II;Skin fragility-woolly hair syndrome;Epidermolysis bullosa, lethal acantholytic;Dilated cardiomyopathy with woolly hair, keratoderma, and tooth agenesis</i>	AR, AD
<i>DST</i>	113810	<i>?Neuropathy, hereditary sensory and autonomic, type VI;Epidermolysis bullosa simplex, AR 2</i>	AR
<i>DUOX2</i>	606759	<i>Thyroid dysmorphogenesis 6</i>	AR
<i>DUOXA2</i>	612772	<i>Thyroid dysmorphogenesis 5</i>	AR
<i>DYSF</i>	603009	<i>Muscular dystrophy, limb-girdle, AR 2;Myopathy, distal, with anterior tibial onset;Miyoshi muscular dystrophy 1</i>	AR

<i>EDN3</i>	131242	<i>Waardenburg syndrome, type 4B;Hirschsprung disease, susceptibility to, 4;Central hypoventilation syndrome, congenital</i>	<i>AD, AR, AD</i>
<i>EEF1A2</i>	602959	<i>Mental retardation, AD 38;Developmental and epileptic encephalopathy 33</i>	<i>AD</i>
<i>EGR2</i>	129010	<i>Dejerine-Sottas disease;Hypomyelinating neuropathy, congenital, 1;Charcot-Marie-Tooth disease, type 1D</i>	<i>AD, AR, AD</i>
<i>EIF2AK3</i>	604032	<i>Wolcott-Rallison syndrome</i>	<i>AR</i>
<i>EIF2B1</i>	606686	<i>Leukoencephalopathy with vanishing white matter</i>	<i>AR</i>
<i>EIF2B2</i>	606454	<i>Ovarioleukodystrophy;Leukoencephalopathy with vanishing white matter</i>	<i>AR</i>
<i>EIF2B3</i>	606273	<i>Leukoencephalopathy with vanishing white matter</i>	<i>AR</i>
<i>EIF2B4</i>	606687	<i>Ovarioleukodystrophy;Leukoencephalopathy with vanishing white matter</i>	<i>AR</i>
<i>EIF2B5</i>	603945	<i>Ovarioleukodystrophy;Leukoencephalopathy with vanishing white matter</i>	<i>AR</i>
<i>ELAC2</i>	605367	<i>Prostate cancer, hereditary, 2, susceptibility to;Combined oxidative phosphorylation deficiency 17</i>	<i>AR</i>
<i>ELANE</i>	130130	<i>Neutropenia, cyclic;Neutropenia, severe congenital 1, AD</i>	<i>AD</i>
<i>ENPP1</i>	173335	<i>Arterial calcification, generalized, of infancy, 1;Obesity, susceptibility to;Hypophosphatemic rickets, AR, 2;Cole disease;Diabetes mellitus, non-insulin-dependent, susceptibility to</i>	<i>AR, AD, AR, mi, AD</i>
<i>EPB42</i>	177070	<i>Spherocytosis, type 5</i>	
<i>EPCAM</i>	185535	<i>Colorectal cancer, hereditary nonpolyposis, type 8;Diarrhea 5, with tufting enteropathy, congenital</i>	<i>AR</i>
<i>ETFA</i>	608053	<i>Glutaric acidemia IIA</i>	<i>AR</i>
<i>ETFB</i>	130410	<i>Glutaric acidemia IIB</i>	<i>AR</i>
<i>ETFDH</i>	231675	<i>Glutaric acidemia IIC</i>	<i>AR</i>
<i>ETHE1</i>	608451	<i>Ethylmalonic encephalopathy</i>	<i>AR</i>

<i>EVC</i>	604831	<i>Ellis-van Creveld syndrome;?Weyers acrofacial dysostosis</i>	<i>AR, AD</i>
<i>EVC2</i>	607261	<i>Ellis-van Creveld syndrome;Weyers acrofacial dysostosis</i>	<i>AR, AD</i>
<i>EXOSC3</i>	606489	<i>Pontocerebellar hypoplasia, type 1B</i>	<i>AR</i>
<i>EYA1</i>	601653	<i>Anterior segment anomalies with or without cataract;Branchiootorenal syndrome 1, with or without cataracts;?Otofaciocervical syndrome;Branchiootic syndrome 1</i>	<i>AD</i>
<i>EYA4</i>	603550	<i>Deafness, AD 10;?Cardiomyopathy, dilated, 1J</i>	<i>AD</i>
<i>F10</i>	613872	<i>Factor X deficiency</i>	<i>AR</i>
<i>F11</i>	264900	<i>Factor XI deficiency, AD;Factor XI deficiency, AR</i>	
<i>F13A1</i>	134570	<i>Factor XIIIa deficiency;Venous thrombosis, protection against;Myocardial infarction, protection against</i>	<i>AR, AD</i>
<i>F2</i>	176930	<i>Dysprothrombinemia;Stroke, ischemic, susceptibility to;Pregnancy loss, recurrent, susceptibility to, 2;Hypoprothrombinemia;Thrombophilia due to thrombin defect</i>	<i>AR, mi, AD</i>
<i>F5</i>	612309	<i>Pregnancy loss, recurrent, susceptibility to, 1;Factor V deficiency;Stroke, ischemic, susceptibility to;Budd-Chiari syndrome;Thrombophilia, susceptibility to, due to factor V Leiden;Thrombophilia due to activated protein C resistance</i>	<i>AD, AR, mi</i>
<i>F7</i>	613878	<i>Myocardial infarction, decreased susceptibility to;Factor VII deficiency</i>	<i>AR</i>
<i>F8</i>	300841	<i>Hemophilia A</i>	<i>XLR</i>
<i>F9</i>	300746	<i>Warfarin sensitivity;Thrombophilia, XL, due to factor IX defect;Hemophilia B;Deep venous thrombosis, protection against</i>	<i>XL, XLR</i>

<i>FADD</i>	602457	<i>Infections, recurrent, with encephalopathy, hepatic dysfunction, and cardiovascular malformations</i>	AR
<i>FAH</i>	613871	<i>Tyrosinemia, type I</i>	AR
<i>FANCA</i>	607139	<i>Fanconi anemia, complementation group A</i>	AR
<i>FANCB</i>	300515	<i>Fanconi anemia, complementation group B</i>	XLR
<i>FANCC</i>	613899	<i>Fanconi anemia, complementation group C</i>	AR
<i>FANCD2</i>	613984	<i>Fanconi anemia, complementation group D2</i>	AR
<i>FANCL</i>	608111	<i>Fanconi anemia, complementation group L</i>	AR
<i>FARS2</i>	611592	<i>Combined oxidative phosphorylation deficiency 14; Spastic paraplegia 77, AR</i>	AR
<i>FASTKD2</i>	612322	<i>Combined oxidative phosphorylation deficiency 44</i>	AR
<i>FBN1</i>	134797	<i>Marfan lipodystrophy syndrome; Geleophysic dysplasia 2; Acromicric dysplasia; Marfan syndrome; Weill-Marchesani syndrome 2, dominant; Stiff skin syndrome; MASS syndrome; Ectopia lentis, familial</i>	AD
<i>FBP1</i>	611570	<i>Fructose-1,6-bisphosphatase deficiency</i>	AR
<i>FBXL4</i>	605654	<i>Mi DNA depletion syndrome 13 (encephalomyopathic type)</i>	AR
<i>FGA</i>	134820	<i>Hypodysfibrinogenemia, congenital; Afibrinogenemia, congenital; Amyloidosis, familial visceral; Dysfibrinogenemia, congenital</i>	AR, AD
<i>FGB</i>	134830	<i>Afibrinogenemia, congenital; Dysfibrinogenemia, congenital; Hypofibrinogenemia, congenital</i>	AR

FGFR2	176943	<i>Crouzon syndrome;Saethre-Chotzen syndrome;Craniofacial-skeletal-dermatologic dysplasia;Antley-Bixler syndrome without genital anomalies or disordered steroidogenesis;Gastric cancer, somatic;LADD syndrome;Beare-Stevenson cutis gyrata syndrome;Scaphocephaly, maxillary retrusion, and mental retardation;Apert syndrome;Bent bone dysplasia syndrome;Pfeiffer syndrome;Jackson-Weiss syndrome</i>	AD
FGFR3	134934	<i>Achondroplasia;CATSHL syndrome;Thanatophoric dysplasia, type I;Bladder cancer, somatic;Hypochondroplasia;SADDAN;Colorectal cancer, somatic;Crouzon syndrome with acanthosis nigricans;Cervical cancer, somatic;Nevus, epidermal, somatic;Thanatophoric dysplasia, type II;Spermatocytic seminoma, somatic;Muenke syndrome;LADD syndrome</i>	AD, AD, AR
FGG	134850	<i>Dysfibrinogenemia, congenital;Afibrinogenemia, congenital;Hypofibrinogenemia, congenital;Hypodysfibrinogenemia</i>	AR
FH	136850	<i>Fumarase deficiency;Leiomyomatosis and renal cell cancer</i>	AR, AD
FIG4	609390	<i>Amyotrophic lateral sclerosis 11;Yunis-Varon syndrome;Charcot-Marie-Tooth disease, type 4J;?Polymicrogyria, bilateral temporooccipital</i>	AD, AR
FKBP14	614505	<i>Ehlers-Danlos syndrome, kyphoscoliotic type, 2</i>	AR

FKRP	606596	Muscular dystrophy-dystroglycanopathy (congenital with or without mental retardation), type B, 5;Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 5;Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 5	AR
FKTN	607440	Cardiomyopathy, dilated, 1X;Muscular dystrophy-dystroglycanopathy (congenital without mental retardation), type B, 4;Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 4;Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 4	AR
FOXC1	601090	Anterior segment dysgenesis 3, multiple subtypes;Axenfeld-Rieger syndrome, type 3	AD
FOXE1	602617	Bamforth-Lazarus syndrome;Thyroid cancer, nonmedullary, 4	AR, AD
FOXG1	164874	Rett syndrome, congenital variant	AD
FOXP3	300292	Immunodysregulation, polyendocrinopathy, and enteropathy, XL	XLR
FOXRED1	613622	Mi complex I deficiency, nuclear type 19	AR
FRAS1	607830	Fraser syndrome 1	AR
FUCA1	612280	Fucosidosis	AR
G6PD	305900	Resistance to malaria due to G6PD deficiency;Hemolytic anemia, G6PD deficient (favism)	XLD
GAA	606800	Glycogen storage disease II	AR
GALC	606890	Krabbe disease	AR
GALE	606953	Galactose epimerase deficiency	AR
GALK1	604313	Galactokinase deficiency with cataracts	AR
GALNS	612222	Mucopolysaccharidosis IVA	AR
GALT	606999	Galactosemia	AR
GAMT	601240	Cerebral creatine deficiency syndrome 2	AR
GAN	605379	Giant axonal neuropathy-1	AR

GARS1	600287	Spinal muscular atrophy, infantile, James type;Charcot-Marie-Tooth disease, type 2D;Neuronopathy, distal hereditary motor, type VA	AD
GATA1	305371	Thrombocytopenia with beta-thalassemia, XL;Thrombocytopenia, XL, with or without dyserythropoietic anemia;Anemia, XL, with/without neutropenia and/or platelet abnormalities;Leukemia, megakaryoblastic, with or without Down syndrome, somatic	XLR
GATM	602360	Cerebral creatine deficiency syndrome 3;Fanconi renotubular syndrome 1	AR, AD
GBA	606463	Lewy body dementia, susceptibility to;Gaucher disease, type IIIC;Parkinson disease, late-onset, susceptibility to;Gaucher disease, type II;Gaucher disease, type III;Gaucher disease, perinatal lethal;Gaucher disease, type I	AD, AR, AD, mi
GBE1	607839	Glycogen storage disease IV;Polyglucosan body disease, adult form	AR
GCDH	608801	Glutaricaciduria, type I	AR
GCH1	600225	Dystonia, DOPA-responsive, with or without hyperphenylalaninemia;Hyperphenylalaninemia, BH4-deficient, B	AD, AR, AR
GCK	138079	Diabetes mellitus, permanent neonatal 1;Diabetes mellitus, noninsulin-dependent, late onset;Hyperinsulinemic hypoglycemia, familial, 3;MODY, type II	AR, AD
GCSH	238330	?Glycine encephalopathy	AR
GDAP1	606598	Charcot-Marie-Tooth disease, axonal, type 2K;Charcot-Marie-Tooth disease, type 4A;Charcot-Marie-Tooth disease, axonal, with vocal cord paresis;Charcot-Marie-Tooth disease, recessive intermediate, A	AD, AR, AR
GFAP	137780	Alexander disease	AD
GFM1	606639	Combined oxidative phosphorylation deficiency 1	AR

GFPT1	138292	<i>Myasthenia, congenital, 12, with tubular aggregates</i>	AR
GJA1	121014	<i>Oculodentodigital dysplasia, AR;Atrioventricular septal defect 3;Syndactyly, type III;Craniometaphyseal dysplasia, AR;Palmoplantar keratoderma with congenital alopecia;Oculodentodigital dysplasia;Hypoplastic left heart syndrome 1;Erythrokeratoderma variabilis et progressiva 3</i>	AR, AD
GJB2	121011	<i>Keratoderma, palmoplantar, with deafness;Keratitits-ichthyosis-deafness syndrome;Deafness, AD 3A;Hystrix-like ichthyosis with deafness;Bart-Pumphrey syndrome;Vohwinkel syndrome;Deafness, AR 1A</i>	AD, AR, DD
GJB4	605425	<i>Erythrokeratoderma variabilis et progressiva 2</i>	AD
GK	300474	<i>Glycerol kinase deficiency</i>	XLR
GLA	300644	<i>Fabry disease;Fabry disease, cardiac variant</i>	XL
GLB1	611458	<i>GM1-gangliosidosis, type II;GM1-gangliosidosis, type I;Mucopolysaccharidosis type IVB (Morquio);GM1-gangliosidosis, type III</i>	AR
GLDC	238300	<i>Glycine encephalopathy</i>	AR
GLIS3	610192	<i>Diabetes mellitus, neonatal, with congenital hypothyroidism</i>	AR
GLRA1	138491	<i>Hyperekplexia 1</i>	AD, AR
GLRB	138492	<i>Hyperekplexia 2</i>	AR
GLUD1	138130	<i>Hyperinsulinism-hyperammonemia syndrome</i>	AD
GLYCTK	610516	<i>D-glyceric aciduria</i>	AR
GMPPB	615320	<i>Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 14;Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 14;Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 14</i>	AR

GNAS	139320	<i>Pseudohypoparathyroidism 1c; Osseous heteroplasia, progressive; Pseudopseudohypoparathyroidism; Pseudohypoparathyroidism 1a; Pseudohypoparathyroidism 1b; Pituitary adenoma 3, multiple types, somatic; ACTH-independent macronodular adrenal hyperplasia; McCune-Albright syndrome, somatic, mosaic</i>	AD, SM
GNE	603824	<i>Nonaka myopathy; Sialuria</i>	AR, AD
GNMT	606628	<i>Glycine N-methyltransferase deficiency</i>	AR
GNPAT	602744	<i>Rhizomelic chondrodysplasia punctata, type 2</i>	AR
GNPTAB	607840	<i>Mucopolipidosis III alpha/beta; Mucopolipidosis II alpha/beta</i>	AR
GP1BA	606672	<i>Bernard-Soulier syndrome, type A1 (recessive); von Willebrand disease, platelet-type; Bernard-Soulier syndrome, type A2 (dominant); Nonarteritic anterior ischemic optic neuropathy, susceptibility to</i>	AR, AD
GP1BB	138720	<i>Giant platelet disorder, isolated; Bernard-Soulier syndrome, type B</i>	AR
GP9	173515	<i>Bernard-Soulier syndrome, type C</i>	AR
GPC3	300037	<i>Simpson-Golabi-Behmel syndrome, type 1; Wilms tumor, somatic</i>	XLR
GPHN	603930	<i>Molybdenum cofactor deficiency C</i>	AR
GPSM2	609245	<i>Chudley-McCullough syndrome</i>	AR
GSS	601002	<i>Glutathione synthetase deficiency; Hemolytic anemia due to glutathione synthetase deficiency</i>	AR
GUSB	611499	<i>Mucopolysaccharidosis VII</i>	AR
GYS2	138571	<i>Glycogen storage disease 0, liver</i>	AR
HADH	601609	<i>3-hydroxyacyl-CoA dehydrogenase deficiency; Hyperinsulinemic hypoglycemia, familial, 4</i>	AR

<i>HADHA</i>	600890	<i>HELLP syndrome, maternal, of pregnancy;LCHAD deficiency;Fatty liver, acute, of pregnancy;Mi trifunctional protein deficiency</i>	AR
<i>HADHB</i>	143450	<i>Trifunctional protein deficiency</i>	AR
<i>HAMP</i>	606464	<i>Hemochromatosis, type 2B</i>	AR
<i>HAX1</i>	605998	<i>Neutropenia, severe congenital 3, AR</i>	AR
<i>HBA1</i>	141800	<i>Methemoglobinemia, alpha type;Heinz body anemias, alpha-;Erythrocytosis 7;Thalasseмии, alpha-;Hemoglobin H disease, nondeletional</i>	AD
<i>HBA2</i>	141850	<i>Thalassemia, alpha-;Erythrocytosis 7;Heinz body anemia;Hemoglobin H disease, deletional and nondeletional</i>	AD
<i>HBB</i>	141900	<i>Erythrocytosis 6;Methemoglobinemia, beta type;Delta-beta thalassemia;Thalassemia-beta, dominant inclusion-body;Sickle cell anemia;Hereditary persistence of fetal hemoglobin;Malaria, resistance to;Thalassemia, beta;Heinz body anemia</i>	AD, AR
<i>HCFC1</i>	300019	<i>Mental retardation, XL 3 (methylmalonic acidemia and homocysteinemia, cbIX type)</i>	XLR
<i>HESX1</i>	601802	<i>Septo-optic dysplasia;Pituitary hormone deficiency, combined, 5;Growth hormone deficiency with pituitary anomalies</i>	AD, AR
<i>HEXA</i>	606869	<i>Tay-Sachs disease;[Hex A pseudodeficiency];GM2-gangliosidosis, several forms</i>	AR
<i>HEXB</i>	606873	<i>Sandhoff disease, infantile, juvenile, and adult forms</i>	AR
<i>HGD</i>	607474	<i>Alkaptonuria</i>	AR
<i>HGF</i>	142409	<i>Deafness, AR 39</i>	AR
<i>HIBCH</i>	610690	<i>3-hydroxyisobutyryl-CoA hydrolase deficiency</i>	AR
<i>HLCS</i>	609018	<i>Holocarboxylase synthetase deficiency</i>	AR
<i>HMGCL</i>	613898	<i>HMG-CoA lyase deficiency</i>	AR
<i>HMGCS2</i>	600234	<i>HMG-CoA synthase-2 deficiency</i>	AR

<i>HNF1A</i>	142410	<i>Diabetes mellitus, insulin-dependent;Diabetes mellitus, insulin-dependent, 20;MODY, type III;Diabetes mellitus, noninsulin-dependent, 2;Hepatic adenoma, somatic;Renal cell carcinoma</i>	AR, AD
<i>HNF1B</i>	189907	<i>Renal cysts and diabetes syndrome;Diabetes mellitus, noninsulin-dependent;Renal cell carcinoma</i>	AD
<i>HNF4A</i>	600281	<i>Fanconi renotubular syndrome 4, with maturity-onset diabetes of the young;Diabetes mellitus, noninsulin-dependent;MODY, type I</i>	AD
<i>HPD</i>	609695	<i>Hawkinsinuria;Tyrosinemia, type III</i>	AD, AR
<i>HPGD</i>	601688	<i>Cranioosteoarthropathy;?Digital clubbing, isolated congenital;Hypertrophic osteoarthropathy, primary, AR 1</i>	AR
<i>HRAS</i>	190020	<i>Thyroid carcinoma, follicular, somatic;Spitz nevus or nevus spilus, somatic;Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaic;Bladder cancer, somatic;Costello syndrome;Nevus sebaceous or woolly hair nevus, somatic;Congenital myopathy with excess of muscle spindles</i>	AD
<i>HSD17B10</i>	300256	<i>HSD10 Mi disease</i>	XLD
<i>HSD17B4</i>	601860	<i>Perrault syndrome 1;D-bifunctional protein deficiency</i>	AR
<i>HSD3B2</i>	613890	<i>Adrenal hyperplasia, congenital, due to 3-beta-hydroxysteroid dehydrogenase 2 deficiency</i>	AR
<i>HSD3B7</i>	607764	<i>Bile acid synthesis defect, congenital, 1</i>	AR
<i>HSPA9</i>	600548	<i>Even-plus syndrome;Anemia, sideroblastic, 4</i>	AR, AD
<i>HSPD1</i>	118190	<i>Leukodystrophy, hypomyelinating, 4;Spastic paraplegia 13, AD</i>	AR, AD
<i>HSPG2</i>	142461	<i>Schwartz-Jampel syndrome, type 1;Dyssegmental dysplasia, Silverman-Handmaker type</i>	AR
<i>ICOS</i>	604558	<i>Immunodeficiency, common variable, 1</i>	AR

IDUA	252800	<i>Mucopolysaccharidosis Is;Mucopolysaccharidosis Ih/s;Mucopolysaccharidosis Ih</i>	AR
IER3IP1	609382	<i>Microcephaly, epilepsy, and diabetes syndrome</i>	AR
IFIH1	606951	<i>Aicardi-Goutieres syndrome 7;Singleton-Merten syndrome 1</i>	AD
IFT172	607386	<i>Retinitis pigmentosa 71;Bardet-Biedl syndrome 20;Short-rib thoracic dysplasia 10 with or without polydactyly</i>	AR
IGF1	147440	<i>Growth retardation with deafness and mental retardation due to IGF1 deficiency</i>	AR
IGF1R	147370	<i>Insulin-like growth factor I, resistance to</i>	AD, AR
IGHMBP2	600502	<i>Neuronopathy, distal hereditary motor, type VI;Charcot-Marie-Tooth disease, axonal, type 2S</i>	AR
IGLL1	146770	<i>Agammaglobulinemia 2</i>	AR
IGSF1	300137	<i>Hypothyroidism, central, and testicular enlargement</i>	XLR
IKBKB	603258	<i>Immunodeficiency 15B;Immunodeficiency 15A</i>	AR, AD
IL12RB1	601604	<i>Immunodeficiency 30</i>	AR
IL2RA	147730	<i>Diabetes, mellitus, insulin-dependent, susceptibility to, 10;Immunodeficiency 41 with lymphoproliferation and autoimmunity</i>	AR
IL2RG	308380	<i>Severe combined immunodeficiency, XL;Combined immunodeficiency, XL, moderate</i>	XLR
IL7R	146661	<i>Severe combined immunodeficiency, T-cell negative, B-cell/natural killer cell-positive type</i>	AR
INS	176730	<i>Diabetes mellitus, insulin-dependent, 2;Maturity-onset diabetes of the young, type 10;Hyperproinsulinemia;Diabetes mellitus, permanent neonatal 4</i>	AD, AD, AR
INSR	147670	<i>Diabetes mellitus, insulin-resistant, with acanthosis nigricans;Rabson-Mendenhall syndrome;Hyperinsulinemic hypoglycemia, familial, 5;Leprechaunism</i>	AR, AD

INVS	243305	<i>Nephronophthisis 2, infantile</i>	AR
IRF8	601565	<i>Immunodeficiency 32B, monocyte and dendritic cell deficiency, AR;Immunodeficiency 32A, mycobacteriosis, AD</i>	AR, AD
IRS4	300904	<i>Hypothyroidism, congenital, nongoitrous, 9</i>	XLR
ITGA2B	607759	<i>Glanzmann thrombasthenia;Bleeding disorder, platelet-type, 16, AD</i>	AR, AD
ITGA6	147556	<i>Epidermolysis bullosa, junctional, with pyloric stenosis</i>	AR
ITGA7	600536	<i>Muscular dystrophy, congenital, due to ITGA7 deficiency</i>	AR
ITGB3	173470	<i>Glanzmann thrombasthenia 2;Glanzmann thrombasthenia;Bleeding disorder, platelet-type, 16, AD;Myocardial infarction, susceptibility to;Bleeding disorder, platelet-type, 24, AD</i>	AR, AD
ITGB4	147557	<i>Epidermolysis bullosa, junctional, non-Herlitz type;Epidermolysis bullosa of hands and feet;Epidermolysis bullosa, junctional, with pyloric atresia</i>	AR, AD
IVD	607036	<i>Isovaleric acidemia</i>	AR
IYD	612025	<i>Thyroid dyshormonogenesis 4</i>	AR
JAG1	601920	<i>Alagille syndrome 1;Charcot-Marie-Tooth disease, axonal, type 2HH;?Deafness, congenital heart defects, and posterior embryotoxon;Tetralogy of Fallot</i>	AD
JAGN1	616012	<i>Neutropenia, severe congenital, 6, AR</i>	AR
JAK3	600173	<i>SCID, AR, T-negative/B-positive type</i>	AR
JAM3	606871	<i>Hemorrhagic destruction of the brain, subependymal calcification, and cataracts</i>	AR
KAT6A	601408	<i>Arboleda-Tham syndrome</i>	AD
KAT6B	605880	<i>SBBYSS syndrome;Genitopatellar syndrome</i>	AD
KBTBD13	613727	<i>Nemaline myopathy 6, AD</i>	AD
KCNE1	176261	<i>Jervell and Lange-Nielsen syndrome 2;Long QT syndrome 5</i>	AR, AD
KCNH1	603305	<i>Zimmermann-Laband syndrome 1;Temple-Baraitser syndrome</i>	AD

KCNH2	152427	Long QT syndrome 2;Short QT syndrome 1;Long QT syndrome 2, acquired, susceptibility to	AD
KCNJ10	602208	Enlarged vestibular aqueduct, digenic;SESAME syndrome	AR
KCNJ11	600937	Maturity-onset diabetes of the young, type 13;Diabetes mellitus, transient neonatal 3;Hyperinsulinemic hypoglycemia, familial, 2;Diabetes, permanent neonatal 2, with or without neurologic features;Diabetes mellitus, type 2, susceptibility to	AD, AD, AR
KCNQ1	607542	Long QT syndrome 1, acquired, susceptibility to;Jervell and Lange-Nielsen syndrome;Atrial fibrillation, familial, 3;Short QT syndrome 2;Long QT syndrome 1	AD, AR
KCNQ2	602235	Seizures, benign neonatal, 1;Developmental and epileptic encephalopathy 7;Myokymia	AD
KCNQ3	602232	Seizures, benign neonatal, 2	AD
KCNT1	608167	Developmental and epileptic encephalopathy 14;Epilepsy nocturnal frontal lobe, 5	AD
KCTD7	611725	Epilepsy, progressive myoclonic 3, with or without intracellular inclusions	AR
KIF1B	605995	?Charcot-Marie-Tooth disease, type 2A1;Pheochromocytoma;Neuroblastoma, susceptibility to, 1	AD, AD, SM
KLF1	600599	Dyserythropoietic anemia, congenital, type IV;Blood group--Lutheran inhibitor;[Hereditary persistence of fetal hemoglobin]	AD
KLHL40	615340	Nemaline myopathy 8, AR	AR
KLHL41	607701	Nemaline myopathy 9	AR
KLHL7	611119	PERCHING syndrome;Retinitis pigmentosa 42	AR, AD

KRAS	190070	Arteriovenous malformation of the brain, somatic;Gastric cancer, somatic;Oculoectodermal syndrome, somatic;RAS-associated autoimmune leukoproliferative disorder;Pancreatic carcinoma, somatic;Lung cancer, somatic;Cardiofaciocutaneous syndrome 2;Bladder cancer, somatic;Leukemia, acute myeloid, somatic;Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaic;Breast cancer, somatic;Noonan syndrome 3	AD
KRT5	148040	Epidermolysis bullosa simplex-MP;Epidermolysis bullosa simplex, Koebner type;Epidermolysis bullosa simplex, recessive 1;Epidermolysis bullosa simplex, Weber-Cockayne type;Epidermolysis bullosa simplex 2B, generalized intermediate;Epidermolysis bullosa simplex 2A, generalized severe;Epidermolysis bullosa simplex-MCR;Dowling-Degos disease 1;Epidermolysis bullosa simplex 2C, localized;Epidermolysis bullosa simplex, Dowling-Meara type;Epidermolysis bullosa simplex 2D, generalized, intermediate or severe, AR	AD, AR
LAMA2	156225	Muscular dystrophy, congenital, merosin deficient or partially deficient;Muscular dystrophy, limb-girdle, AR 23	AR
LAMA3	600805	Laryngoonychocutaneous syndrome;Epidermolysis bullosa, junctional, Herlitz type;Epidermolysis bullosa, generalized atrophic benign	AR
LAMB3	150310	Epidermolysis bullosa, junctional, non-Herlitz type;Amelogenesis imperfecta, type IA;Epidermolysis bullosa, junctional, Herlitz type	AR, AD

LAMC2	150292	<i>Epidermolysis bullosa, junctional, non-Herlitz type;Epidermolysis bullosa, junctional, Herlitz type</i>	AR
LAMP2	309060	<i>Danon disease</i>	XLD
LAMTOR2	610389	<i>Immunodeficiency due to defect in MAPBP-interacting protein</i>	AR
LARS2	604544	<i>?Hydrops, lactic acidosis, and sideroblastic anemia;Perrault syndrome 4</i>	AR
LAS1L	300964	<i>Wilson-Turner syndrome</i>	XLR
LCT	603202	<i>Lactase deficiency, congenital</i>	AR
LHX3	600577	<i>Pituitary hormone deficiency, combined, 3</i>	AR
LHX4	602146	<i>Pituitary hormone deficiency, combined, 4</i>	AD
LIAS	607031	<i>Hyperglycinemia, lactic acidosis, and seizures</i>	AR
LIG4	601837	<i>Multiple myeloma, resistance to;LIG4 syndrome</i>	SM, AR
LIPA	613497	<i>Wolman disease;Cholesteryl ester storage disease</i>	AR
LIPN	613924	<i>Ichthyosis, congenital, AR 8</i>	AR
LIPT1	610284	<i>Lipoyltransferase 1 deficiency</i>	AR
LMBRD1	612625	<i>Methylmalonic aciduria and homocystinuria, cblF type</i>	AR
LMNA	150330	<i>Malouf syndrome;Emery-Dreifuss muscular dystrophy 3, AR;Emery-Dreifuss muscular dystrophy 2, AD;Hutchinson-Gilford progeria;Muscular dystrophy, congenital;Restrictive dermopathy, lethal;Lipodystrophy, familial partial, type 2;Charcot-Marie-Tooth disease, type 2B1;Mandibuloacral dysplasia;Cardiomyopathy, dilated, 1A;Heart-hand syndrome, Slovenian type</i>	AD, AR
LPIN1	605518	<i>Myoglobinuria, acute recurrent, AR</i>	AR
LRBA	606453	<i>Immunodeficiency, common variable, 8, with autoimmunity</i>	AR
LRPPRC	607544	<i>Mi complex IV deficiency, nuclear type 5, (French-Canadian)</i>	AR
LRRC8A	608360	<i>?Agammaglobulinemia 5</i>	AD
MAGEL2	605283	<i>Schaaf-Yang syndrome</i>	AD

MAGT1	300715	<i>Congenital disorder of glycosylation, type Icc;Immunodeficiency, XL, with magnesium defect, Epstein-Barr virus infection and neoplasia</i>	XLR
MALT1	604860	<i>Immunodeficiency 12</i>	AR
MAN2B1	609458	<i>Mannosidosis, alpha-, types I and II</i>	AR
MANBA	609489	<i>Mannosidosis, beta</i>	AR
MAP2K1	176872	<i>Cardiofaciocutaneous syndrome 3;Melorheostosis, isolated, somatic mosaic</i>	AD
MAP2K2	601263	<i>Cardiofaciocutaneous syndrome 4</i>	AD
MAT1A	610550	<i>Methionine adenosyltransferase deficiency, AR;Hypermethioninemia, persistent, AD, due to methionine adenosyltransferase I/III deficiency</i>	AD, AR
MCCC1	609010	<i>3-Methylcrotonyl-CoA carboxylase 1 deficiency</i>	AR
MCCC2	609014	<i>3-Methylcrotonyl-CoA carboxylase 2 deficiency</i>	AR
MCEE	608419	<i>Methylmalonyl-CoA epimerase deficiency</i>	AR
MCM4	602638	<i>Immunodeficiency 54</i>	AR
MCPH1	607117	<i>Microcephaly 1, primary, AR</i>	AR
MECP2	300005	<i>Rett syndrome, preserved speech variant;Encephalopathy, neonatal severe;Mental retardation, XL, syndromic 13;Rett syndrome;Mental retardation, XL syndromic, Lubs type;Rett syndrome, atypical;Autism susceptibility, XL 3</i>	XLD, XLR, XL
MED12	300188	<i>Opitz-Kaveggia syndrome;Lujan-Fryns syndrome;Ohdo syndrome, XL;Hardikar syndrome</i>	XLR, XLD
MEF2C	600662	<i>Mental retardation, stereotypic movements, epilepsy, and/or cerebral malformations;Chromosome 5q14.3 deletion syndrome</i>	AD
MEGF10	612453	<i>Myopathy, areflexia, respiratory distress, and dysphagia, early-onset;Myopathy, areflexia, respiratory distress, and dysphagia, early-onset, mild variant</i>	AR

MFN2	608507	<i>Hereditary motor and sensory neuropathy VIA;Charcot-Marie-Tooth disease, axonal, type 2A2B;Charcot-Marie-Tooth disease, axonal, type 2A2A</i>	AD, AR
MFSD8	611124	<i>Ceroid lipofuscinosis, neuronal, 7;Macular dystrophy with central cone involvement</i>	AR
MITF	156845	<i>Melanoma, cutaneous malignant, susceptibility to, 8;Waardenburg syndrome, type 2A;Waardenburg syndrome/ocular albinism, digenic;Tietz albinism-deafness syndrome;COMMAD syndrome</i>	AD, AR
MKKS	604896	<i>McKusick-Kaufman syndrome;Bardet-Biedl syndrome 6</i>	AR
MLC1	605908	<i>Megalencephalic leukoencephalopathy with subcortical cysts</i>	AR
MLYCD	606761	<i>Malonyl-CoA decarboxylase deficiency</i>	AR
MMAA	607481	<i>Methylmalonic aciduria, vitamin B12-responsive</i>	AR
MMAB	607568	<i>Methylmalonic aciduria, vitamin B12-responsive, due to defect in synthesis of adenosylcobalamin, cb1B complementation type</i>	AR
MMACHC	609831	<i>Methylmalonic aciduria and homocystinuria, cb1C type</i>	AR
MMADHC	611935	<i>Methylmalonic aciduria and homocystinuria, cb1D type;Methylmalonic aciduria, cb1D type, variant 2;Homocystinuria, cb1D type, variant 1</i>	AR
MMUT	609058	<i>Methylmalonic aciduria, mut(0) type</i>	AR
MOCS1	603707	<i>Molybdenum cofactor deficiency A</i>	AR
MOCS2	603708	<i>Molybdenum cofactor deficiency B</i>	AR
MPC1	614738	<i>Mi pyruvate carrier deficiency</i>	AR
MPI	154550	<i>Congenital disorder of glycosylation, type 1b</i>	AR
MPL	159530	<i>Myelofibrosis with myeloid metaplasia, somatic;Thrombocytopenia, congenital amegakaryocytic;Thrombocythemia 2</i>	AR, AD, SM

MPV17	137960	<i>Charcot-Marie-Tooth disease, axonal, type 2EE;Mi DNA depletion syndrome 6 (hepatocerebral type)</i>	AR
MPZ	159440	<i>Charcot-Marie-Tooth disease, type 2I;Dejerine-Sottas disease;Hypomyelinating neuropathy, congenital, 2;Charcot-Marie-Tooth disease, type 2J;Charcot-Marie-Tooth disease, dominant intermediate D;Charcot-Marie-Tooth disease, type 1B;Roussy-Levy syndrome</i>	AD, AD, AR
MRPL3	607118	<i>Combined oxidative phosphorylation deficiency 9</i>	AR
MRPL44	611849	<i>?Combined oxidative phosphorylation deficiency 16</i>	AR
MSMO1	607545	<i>Microcephaly, congenital cataract, and psoriasiform dermatitis</i>	AR
MTHFR	607093	<i>Neural tube defects, susceptibility to;Homocystinuria due to MTHFR deficiency;Schizophrenia, susceptibility to;Thromboembolism, susceptibility to</i>	AR, AD
MTM1	300415	<i>Myotubular myopathy, XL</i>	XLR
MTMR14	611089	<i>Centronuclear myopathy, autosomal, modifier of</i>	AD
MTO1	614667	<i>Combined oxidative phosphorylation deficiency 10</i>	AR
MTR	156570	<i>Neural tube defects, folate-sensitive, susceptibility to;Homocystinuria-megaloblastic anemia, cblG complementation type</i>	AR
MTRFR	613541	<i>Spastic paraplegia 55, AR;Combined oxidative phosphorylation deficiency 7</i>	AR
MTRR	602568	<i>Homocystinuria-megaloblastic anemia, cbl E type;Neural tube defects, folate-sensitive, susceptibility to</i>	AR
MUSK	601296	<i>Myasthenic syndrome, congenital, 9, associated with acetylcholine receptor deficiency;Fetal akinesia deformation sequence 1</i>	AR
MVK	251170	<i>Mevalonic aciduria;Hyper-IgD syndrome;Porokeratosis 3, multiple types</i>	AR, AD

MYCN	164840	<i>Feingold syndrome 1</i>	AD
MYH9	160775	<i>Deafness, AD 17;Macrothrombocytopenia and granulocyte inclusions with or without nephritis or sensorineural hearing loss</i>	AD
NAA10	300013	<i>Ogden syndrome;Microphthalmia, syndromic 1</i>	XLD, XLR, XL
NAGA	104170	<i>Schindler disease, type III;Kanzaki disease;Schindler disease, type I</i>	AR
NAGS	608300	<i>N-acetylglutamate synthase deficiency</i>	AR
NALCN	611549	<i>Congenital contractures of the limbs and face, hypotonia, and developmental delay;Hypotonia, infantile, with psychomotor retardation and characteristic facies 1</i>	AD, AR
NARS2	612803	<i>?Deafness, AR 94;Combined oxidative phosphorylation deficiency 24</i>	AR
NBAS	608025	<i>Short stature, optic nerve atrophy, and Pelger-Huet anomaly;Infantile liver failure syndrome 2</i>	AR
NDUFA1	300078	<i>Mi complex I deficiency, nuclear type 12</i>	XLR
NDUFA10	603835	<i>Mi complex I deficiency, nuclear type 22</i>	AR
NDUFA11	612638	<i>Mi complex I deficiency, nuclear type 14</i>	AR
NDUFA2	602137	<i>Mi complex I deficiency, nuclear type 13</i>	AR
NDUFA9	603834	<i>Mi complex I deficiency, nuclear type 26</i>	AR
NDUFAF1	606934	<i>Mi complex I deficiency, nuclear type 11</i>	AR
NDUFAF2	609653	<i>Mi complex I deficiency, nuclear type 10</i>	AR
NDUFAF3	612911	<i>Mi complex I deficiency, nuclear type 18</i>	AR
NDUFAF4	611776	<i>Mi complex I deficiency, nuclear type 15</i>	AR
NDUFAF5	612360	<i>Mi complex I deficiency, nuclear type 16</i>	AR
NDUFAF6	612392	<i>Mi complex I deficiency, nuclear type 17;Fanconi renotubular syndrome 5</i>	AR

NDUFB3	603839	<i>Mi complex I deficiency, nuclear type 25</i>	AR
NDUFB9	601445	<i>?Mi complex I deficiency, nuclear type 24</i>	AR
NDUFS1	157655	<i>Mi complex I deficiency, nuclear type 5</i>	AR
NDUFS2	602985	<i>Mi complex I deficiency, nuclear type 6</i>	AR
NDUFS3	603846	<i>Mi complex I deficiency, nuclear type 8</i>	AR
NDUFS4	602694	<i>Mi complex I deficiency, nuclear type 1</i>	AR
NDUFS6	603848	<i>Mi complex I deficiency, nuclear type 9</i>	AR
NDUFS7	601825	<i>Mi complex I deficiency, nuclear type 3</i>	AR
NDUFV1	161015	<i>Mi complex I deficiency, nuclear type 4</i>	AR
NDUFV2	600532	<i>Mi complex I deficiency, nuclear type 7</i>	AR
NEB	161650	<i>Nemaline myopathy 2, AR;Arthrogryposis multiplex congenita 6</i>	AR
NEU1	608272	<i>Sialidosis, type I;Sialidosis, type II</i>	AR
NEUROG3	604882	<i>Diarrhea 4, malabsorptive, congenital</i>	AR
NEXN	613121	<i>Cardiomyopathy, hypertrophic, 20;Cardiomyopathy, dilated, 1CC</i>	AD
NFKB2	164012	<i>Immunodeficiency, common variable, 10</i>	AD
NFU1	608100	<i>Multiple Mi dysfunctions syndrome 1</i>	AR
NGF	162030	<i>Neuropathy, hereditary sensory and autonomic, type V</i>	AR
NGLY1	610661	<i>Congenital disorder of deglycosylation</i>	AR
NHEJ1	611290	<i>Severe combined immunodeficiency with microcephaly, growth retardation, and sensitivity to ionizing radiation</i>	
NIPAL4	609383	<i>Ichthyosis, congenital, AR 6</i>	AR
NIPBL	608667	<i>Cornelia de Lange syndrome 1</i>	AD
NKX2-1	600635	<i>Chorea, hereditary benign;Choreoathetosis, hypothyroidism, and neonatal respiratory distress;Thyroid cancer, nonmedullary, 1</i>	AD

NKX2-5	600584	<i>Hypoplastic left heart syndrome 2;Hypothyroidism, congenital nongoitrous, 5;Atrial septal defect 7, with or without AV conduction defects;Conotruncal heart malformations, variable;Ventricular septal defect 3;Tetralogy of Fallot</i>	AD
NLRC4	606831	<i>Autoinflammation with infantile enterocolitis;?Familial cold autoinflammatory syndrome 4</i>	AD
NLRP3	606416	<i>CINCA syndrome;Deafness, AD 34, with or without inflammation;Keratoendothelitis fugax hereditaria;Familial cold inflammatory syndrome 1;Muckle-Wells syndrome</i>	AD
NOTCH2	600275	<i>Alagille syndrome 2;Hajdu-Cheney syndrome</i>	AD
NPC1	607623	<i>Niemann-Pick disease, type C1;Niemann-Pick disease, type D</i>	AR
NPC2	601015	<i>Niemann-pick disease, type C2</i>	AR
NPHP1	607100	<i>Joubert syndrome 4;Nephronophthisis 1, juvenile;Senior-Loken syndrome-1</i>	AR
NPHP3	608002	<i>Nephronophthisis 3;Meckel syndrome 7;Renal-hepatic-pancreatic dysplasia 1</i>	AR
NR0B1	300473	<i>Adrenal hypoplasia, congenital;46XY sex reversal 2, dosage-sensitive</i>	XLR, XL
NR3C2	600983	<i>Hypertension, early-onset, AD, with exacerbation in pregnancy;Pseudohypoaldosteronism type I, AD</i>	AD
NRAS	164790	<i>Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaic;Colorectal cancer, somatic;Neurocutaneous melanosis, somatic;?RAS-associated autoimmune lymphoproliferative syndrome type IV, somatic;Noonan syndrome 6;Melanocytic nevus syndrome, congenital, somatic;Thyroid carcinoma, follicular, somatic;Epidermal nevus, somatic</i>	AD
NSD1	606681	<i>Sotos syndrome 1</i>	AD

NSDHL	300275	CK syndrome;CHILD syndrome	XLR, XLD
NUBPL	613621	Mi complex I deficiency, nuclear type 21	AR
OAT	613349	Gyrate atrophy of choroid and retina with or without ornithinemia	AR
OCLN	602876	Pseudo-TORCH syndrome 1	AR
OCRL	300535	Lowe syndrome;Dent disease 2	XLR
ODAD1	615038	Ciliary dyskinesia, primary, 20	AR
OPA3	606580	3-methylglutaconic aciduria, type III;Optic atrophy 3 with cataract	AR, AD
OPHN1	300127	Mental retardation, XL, with cerebellar hypoplasia and distinctive facial appearance	XLR
ORC1	601902	Meier-Gorlin syndrome 1	AR
ORC4	603056	Meier-Gorlin syndrome 2	AR
OTC	300461	Ornithine transcarbamylase deficiency	XL
OTX2	600037	Retinal dystrophy, early-onset, with or without pituitary dysfunction;Microphthalmia, syndromic 5;Pituitary hormone deficiency, combined, 6	AD
OXCT1	601424	Succinyl CoA:3-oxoacid CoA transferase deficiency	AR
PAFAH1B1	601545	Subcortical laminar heterotopia;Lissencephaly 1	AD
PAH	612349	Phenylketonuria;[Hyperphenylalaninemia, non-PKU mild]	AR
PAX2	167409	Glomerulosclerosis, focal segmental, 7;Papillorenal syndrome	AD
PAX3	606597	Waardenburg syndrome, type 3;Rhabdomyosarcoma 2, alveolar;Craniofacial-deafness-hand syndrome;Waardenburg syndrome, type 1	AD, AR, SM, AD
PAX6	607108	?Coloboma, ocular;Aniridia;?Morning glory disc anomaly;Keratitis;Optic nerve hypoplasia;?Coloboma of optic nerve;Anterior segment dysgenesis 5, multiple subtypes;Cataract with late-onset corneal dystrophy;Foveal hypoplasia 1	AD
PAX8	167415	Hypothyroidism, congenital, due to thyroid dysgenesis or hypoplasia	AD

PC	608786	Pyruvate carboxylase deficiency	AR
PCBD1	126090	Hyperphenylalaninemia, BH4-deficient, D	AR
PCCA	232000	Propionicacidemia	AR
PCCB	232050	Propionicacidemia	AR
PCDH19	300460	Developmental and epileptic encephalopathy 9	XL
PCNT	605925	Microcephalic osteodysplastic primordial dwarfism, type II	AR
PDCD10	609118	Cerebral cavernous malformations 3	AD
PDE10A	610652	Dyskinesia, limb and orofacial, infantile-onset;Striatal degeneration, AD	AR, AD
PDHA1	300502	Pyruvate dehydrogenase E1-alpha deficiency	XLD
PDHB	179060	Pyruvate dehydrogenase E1-beta deficiency	AR
PDHX	608769	Lacticacidemia due to PDX1 deficiency	AR
PDP1	605993	Pyruvate dehydrogenase phosphatase deficiency	AR
PDSS2	610564	Coenzyme Q10 deficiency, primary, 3	AR
PDX1	600733	Pancreatic agenesis 1;MODY, type IV;Diabetes mellitus, type II, susceptibility to	AR, AD
PEPD	613230	Prolidase deficiency	AR
PEX1	602136	Peroxisome biogenesis disorder 1A (Zellweger);Peroxisome biogenesis disorder 1B (NALD/IRD);Heimler syndrome 1	AR
PEX10	602859	Peroxisome biogenesis disorder 6A (Zellweger);Peroxisome biogenesis disorder 6B	AR
PEX12	601758	Peroxisome biogenesis disorder 3B;Peroxisome biogenesis disorder 3A (Zellweger)	AR
PEX13	601789	Peroxisome biogenesis disorder 11B;Peroxisome biogenesis disorder 11A (Zellweger)	AR
PEX14	601791	Peroxisome biogenesis disorder 13A (Zellweger)	AR
PEX16	603360	Peroxisome biogenesis disorder 8A (Zellweger);Peroxisome biogenesis disorder 8B	AR
PEX19	600279	Peroxisome biogenesis disorder 12A (Zellweger)	AR

PEX2	170993	<i>Peroxisome biogenesis disorder 5B;Peroxisome biogenesis disorder 5A (Zellweger)</i>	AR
PEX26	608666	<i>Peroxisome biogenesis disorder 7A (Zellweger);Peroxisome biogenesis disorder 7B</i>	AR
PEX3	603164	<i>Peroxisome biogenesis disorder 10A (Zellweger);?Peroxisome biogenesis disorder 10B</i>	AR
PEX5	600414	<i>Rhizomelic chondrodysplasia punctata, type 5;Peroxisome biogenesis disorder 2B;Peroxisome biogenesis disorder 2A (Zellweger)</i>	AR
PEX6	601498	<i>Peroxisome biogenesis disorder 4B;Peroxisome biogenesis disorder 4A (Zellweger);Heimler syndrome 2</i>	AD, AR, AR
PEX7	601757	<i>Peroxisome biogenesis disorder 9B;Rhizomelic chondrodysplasia punctata, type 1</i>	AR
PGAP1	611655	<i>Mental retardation, AR 42</i>	AR
PGM1	171900	<i>Congenital disorder of glycosylation, type It</i>	AR
PHGDH	606879	<i>Phosphoglycerate dehydrogenase deficiency;Neu-Laxova syndrome 1</i>	AR
PHKG2	172471	<i>Glycogen storage disease IXc</i>	AR
PHOX2B	603851	<i>Central hypoventilation syndrome, congenital, with or without Hirschsprung disease;Neuroblastoma, susceptibility to, 2;Neuroblastoma with Hirschsprung disease</i>	AD
PIGA	311770	<i>Paroxysmal nocturnal hemoglobinuria, somatic;Multiple congenital anomalies-hypotonia-seizures syndrome 2</i>	XLR
PIGN	606097	<i>Multiple congenital anomalies-hypotonia-seizures syndrome 1</i>	AR
PIGT	610272	<i>Multiple congenital anomalies-hypotonia-seizures syndrome 3;?Paroxysmal nocturnal hemoglobinuria 2</i>	AR, AD, SM
PIGV	610274	<i>Hyperphosphatasia with mental retardation syndrome 1</i>	AR

PIK3CD	602839	Immunodeficiency 14; ?Roifman-Chitayat syndrome, digenic; Immunodeficiency 14B, AR	AD, DR, AR
PKD2	173910	Polycystic kidney disease 2	AD
PKHD1	606702	Polycystic kidney disease 4, with or without hepatic disease	AR
PKLR	609712	Adenosine triphosphate, elevated, of erythrocytes; Pyruvate kinase deficiency	AD, AR
PLCB4	600810	Auriculocondylar syndrome 2	AD, AR
PLEC	601282	Epidermolysis bullosa simplex, Ogna type; Epidermolysis bullosa simplex with muscular dystrophy; ?Epidermolysis bullosa simplex with nail dystrophy; Epidermolysis bullosa simplex with pyloric atresia; Muscular dystrophy, limb-girdle, AR 17	AD, AR
PLOD1	153454	Ehlers-Danlos syndrome, kyphoscoliotic type, 1	AR
PLP1	300401	Pelizaeus-Merzbacher disease; Spastic paraplegia 2, XL	XLR
PMM2	601785	Congenital disorder of glycosylation, type Ia	AR
PMP22	601097	Neuropathy, recurrent, with pressure palsies; Dejerine-Sottas disease; Roussy-Levy syndrome; ?Neuropathy, inflammatory demyelinating; Charcot-Marie-Tooth disease, type 1E; Charcot-Marie-Tooth disease, type 1A	AD, AD, AR, ?AD
PNKP	605610	Ataxia-oculomotor apraxia 4; Microcephaly, seizures, and developmental delay; ?Charcot-Marie-Tooth disease, type 2B2	AR
PNP	164050	Immunodeficiency due to purine nucleoside phosphorylase deficiency	AR
PNPLA1	612121	Ichthyosis, congenital, AR 10	AR
PNPO	603287	Pyridoxamine 5'-phosphate oxidase deficiency	AR
PNPT1	610316	Deafness, AR 70; Combined oxidative phosphorylation deficiency 13	AR
POGZ	614787	White-Sutton syndrome	AD

POLG	174763	<i>Progressive external ophthalmoplegia, AR 1; Progressive external ophthalmoplegia, AD 1; Mi recessive ataxia syndrome (includes SANDO and SCAE); Mi DNA depletion syndrome 4B (MNGIE type); Mi DNA depletion syndrome 4A (Alpers type)</i>	AR, AD
POLG2	604983	<i>Mi DNA depletion syndrome 16 (hepatic type); ?Mi DNA depletion syndrome 16B (neurophthalmic type); Progressive external ophthalmoplegia with Mi DNA deletions, AD 4</i>	AR, AD
POMGNT1	606822	<i>Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 3; Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 3; Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 3; Retinitis pigmentosa 76</i>	AR
POMGNT2	614828	<i>Muscular dystrophy-dystroglycanopathy (limb-girdle) type C, 8; Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 8</i>	AR
POMK	615247	<i>Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 12; ?Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 12</i>	AR
POMT1	607423	<i>Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 1; Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 1; Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 1</i>	AR

POMT2	607439	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 2; Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 2; Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 2	AR
POU1F1	173110	Pituitary hormone deficiency, combined, 1	AD, AR
PPT1	600722	Ceroid lipofuscinosis, neuronal, 1	AR
PRDM16	605557	Cardiomyopathy, dilated, 1LL; Left ventricular noncompaction 8	AD
PRKAG2	602743	Glycogen storage disease of heart, lethal congenital; Cardiomyopathy, hypertrophic 6; Wolff-Parkinson-White syndrome	AD
PRKAR1A	188830	Myxoma, intracardiac; Pigmented nodular adrenocortical disease, primary, 1; Carney complex, type 1; Acrodysostosis 1, with or without hormone resistance	AD
PROC	612283	Thrombophilia due to protein C deficiency, AD; Thrombophilia due to protein C deficiency, AR	AD, AR
PRODH	606810	Schizophrenia, susceptibility to, 4; Hyperprolinemia, type I	AD, AR
PROP1	601538	Pituitary hormone deficiency, combined, 2	AR
PROS1	176880	Thrombophilia due to protein S deficiency, AR; Thrombophilia due to protein S deficiency, AD	AR, AD
PRPS1	311850	Charcot-Marie-Tooth disease, XLR, 5; Deafness, XL 1; Phosphoribosylpyrophosphate synthetase superactivity; Arts syndrome; Gout, PRPS-related	XLR, XL
PRRT2	614386	Episodic kinesigenic dyskinesia 1; Convulsions, familial infantile, with paroxysmal choreoathetosis; Seizures, benign familial infantile, 2	AD

PSAP	176801	Combined SAP deficiency;Gaucher disease, atypical;Krabbe disease, atypical;Parkinson disease 24, AD, susceptibility to;Metachromatic leukodystrophy due to SAP-b deficiency	AR, AD
PSAT1	610936	Neu-Laxova syndrome 2;?Phosphoserine aminotransferase deficiency	AR
PSPH	172480	Phosphoserine phosphatase deficiency	AR
PTPN11	176876	Leukemia, juvenile myelomonocytic, somatic;LEOPARD syndrome 1;Metachondromatosis;Noonan syndrome 1	AD
PTPRC	151460	Severe combined immunodeficiency, T cell-negative, B-cell/natural killer-cell positive;Hepatitis C virus, susceptibility to	AR
PTRH2	608625	Infantile-onset multisystem neurologic, endocrine, and pancreatic disease	AR
PTS	612719	Hyperphenylalaninemia, BH4-deficient, A	AR
PURA	600473	Mental retardation, AD 31	AD
QDPR	612676	Hyperphenylalaninemia, BH4-deficient, C	AR
RAB18	602207	Warburg micro syndrome 3	AR
RAB3GAP1	602536	Martsolf syndrome 2;Warburg micro syndrome 1	AR
RAB3GAP2	609275	Warburg micro syndrome 2;Martsolf syndrome	AR
RAC2	602049	?Immunodeficiency 73C with defective neutrophil chemotaxis and hypogammaglobulinemia;Immunodeficiency 73A with defective neutrophil chemotaxis and leukocytosis;Immunodeficiency 73B with defective neutrophil chemotaxis and lymphopenia	AR, AD
RAF1	164760	Noonan syndrome 5;LEOPARD syndrome 2;Cardiomyopathy, dilated, 1NN	AD

RAG1	179615	<i>Alpha/beta T-cell lymphopenia with gamma/delta T-cell expansion, severe cytomegalovirus infection, and autoimmunity; Omenn syndrome; Severe combined immunodeficiency, B cell-negative; Combined cellular and humoral immune defects with granulomas</i>	AR
RAG2	179616	<i>Omenn syndrome; Combined cellular and humoral immune defects with granulomas; Severe combined immunodeficiency, B cell-negative</i>	AR
RANBP2	601181	<i>Encephalopathy, acute, infection-induced, 3, susceptibility to</i>	AD
RAPSN	601592	<i>Fetal akinesia deformation sequence 2; Myasthenic syndrome, congenital, 11, associated with acetylcholine receptor deficiency</i>	AR
RARS2	611524	<i>Pontocerebellar hypoplasia, type 6</i>	AR
RB1	614041	<i>Bladder cancer, somatic; Retinoblastoma, trilateral; Small cell cancer of the lung, somatic; Osteosarcoma, somatic; Retinoblastoma</i>	AD, SM
RBBP8	604124	<i>Seckel syndrome 2; Jawad syndrome</i>	AR
RBM8A	605313	<i>Thrombocytopenia-absent radius syndrome</i>	AR
RET	164761	<i>Hirschsprung disease, susceptibility to, 1; Multiple endocrine neoplasia IIA; Medullary thyroid carcinoma; Pheochromocytoma; Multiple endocrine neoplasia IIB; Hirschsprung disease, protection against; Central hypoventilation syndrome, congenital</i>	AD
RFT1	611908	<i>Congenital disorder of glycosylation, type In</i>	AR
RFX5	601863	<i>Bare lymphocyte syndrome, type II, complementation group E; Bare lymphocyte syndrome, type II, complementation group C</i>	AR
RFX6	612659	<i>Mitchell-Riley syndrome</i>	AR
RIT1	609591	<i>Noonan syndrome 8</i>	AD

RMND1	614917	Combined oxidative phosphorylation deficiency 11	AR
RNASEH2C	610330	Aicardi-Goutieres syndrome 3	AR
RNASET2	612944	Leukoencephalopathy, cystic, without megalencephaly	AR
RORC	602943	Immunodeficiency 42	AR
RPS19	603474	Diamond-Blackfan anemia 1	AD
RRM2B	604712	Mi DNA depletion syndrome 8A (encephalomyopathic type with renal tubulopathy); Progressive external ophthalmoplegia with Mi DNA deletions, AD 5; Mi DNA depletion syndrome 8B (MNGIE type)	AR, AD
RXYLT1	605862	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 10	AR
RYR1	180901	Malignant hyperthermia susceptibility 1; King-Denborough syndrome; Central core disease; Neuromuscular disease, congenital, with uniform type 1 fiber; Minicore myopathy with external ophthalmoplegia	AD, AD, AR, AR
SALL1	602218	Townes-Brocks branchiootorenal-like syndrome; Townes-Brocks syndrome 1	AD
SATB2	608148	Glass syndrome	AD
SBDS	607444	Aplastic anemia, susceptibility to; Shwachman-Diamond syndrome	AR
SCN1A	182389	Epilepsy, generalized, with febrile seizures plus, type 2; Migraine, familial hemiplegic, 3; Developmental and epileptic encephalopathy 6B, non-Dravet; Febrile seizures, familial, 3A; Dravet syndrome	AD
SCN2A	182390	Developmental and epileptic encephalopathy 11; Seizures, benign familial infantile, 3; Episodic ataxia, type 9	AD

SCN4A	603967	<i>Paramyotonia congenita; Myotonia congenita, atypical, acetazolamide-responsive; Myasthenic syndrome, congenital, 16; Hyperkalemic periodic paralysis, type 2; Hypokalemic periodic paralysis, type 2</i>	AD, AR
SCN5A	600163	<i>Heart block, nonprogressive; Ventricular fibrillation, familial, 1; Sick sinus syndrome 1; Brugada syndrome 1; Heart block, progressive, type IA; Atrial fibrillation, familial, 10; Long QT syndrome 3; Cardiomyopathy, dilated, 1E; Sudden infant death syndrome, susceptibility to</i>	AD, AR
SCN9A	603415	<i>Erythralgia, primary; Generalized epilepsy with febrile seizures plus, type 7; Febrile seizures, familial, 3B; Neuropathy, hereditary sensory and autonomic, type IID; Insensitivity to pain, congenital; Paroxysmal extreme pain disorder; Small fiber neuropathy</i>	AD, AR
SCO1	603644	<i>Mi complex IV deficiency, nuclear type 4</i>	AR
SCO2	604272	<i>Myopia 6; Mi complex IV deficiency, nuclear type 2</i>	AD, AR
SDHA	600857	<i>Neurodegeneration with ataxia and late-onset optic atrophy; Cardiomyopathy, dilated, 1GG; Leigh syndrome; Mi respiratory chain complex II deficiency; Paragangliomas 5</i>	AD, AR, AR, Mi
SDHAF1	612848	<i>Mi complex II deficiency, nuclear type 2; Mi complex II deficiency</i>	AR
SECISBP2	607693	<i>Thyroid hormone metabolism, abnormal</i>	AR
SELENON	606210	<i>Muscular dystrophy, rigid spine, 1; Myopathy, congenital, with fiber-type disproportion</i>	AR, AD, AR
SERAC1	614725	<i>3-methylglutaconic aciduria with deafness, encephalopathy, and Leigh-like syndrome</i>	AR
SERPINC1	107300	<i>Thrombophilia due to antithrombin III deficiency</i>	AD, AR

<i>SERPING1</i>	606860	<i>Complement component 4, partial deficiency of;Angioedema, hereditary, types I and II</i>	AD, AD, AR
<i>SFTPB</i>	178640	<i>Surfactant metabolism dysfunction, pulmonary, 1</i>	AR
<i>SFTPC</i>	178620	<i>Surfactant metabolism dysfunction, pulmonary, 2</i>	AD
<i>SHOC2</i>	602775	<i>Noonan syndrome-like with loose anagen hair 1</i>	AD
<i>SIL1</i>	608005	<i>Marinesco-Sjogren syndrome</i>	AR
<i>SIX3</i>	603714	<i>Holoprosencephaly 2;Schizencephaly</i>	AD
<i>SIX5</i>	600963	<i>Branchiootorenal syndrome 2</i>	
<i>SKI</i>	164780	<i>Shprintzen-Goldberg syndrome</i>	AD
<i>SLC12A6</i>	604878	<i>Agenesis of the corpus callosum with peripheral neuropathy</i>	AR
<i>SLC16A1</i>	600682	<i>Hyperinsulinemic hypoglycemia, familial, 7;Erythrocyte lactate transporter defect;Monocarboxylate transporter 1 deficiency</i>	AD, AD, AR
<i>SLC16A2</i>	300095	<i>Allan-Herndon-Dudley syndrome</i>	XL
<i>SLC17A5</i>	604322	<i>Sialic acid storage disorder, infantile;Salla disease</i>	AR
<i>SLC19A2</i>	603941	<i>Thiamine-responsive megaloblastic anemia syndrome</i>	AR
<i>SLC19A3</i>	606152	<i>Thiamine metabolism dysfunction syndrome 2 (biotin- or thiamine-responsive encephalopathy type 2)</i>	AR
<i>SLC22A5</i>	603377	<i>Carnitine deficiency, systemic primary</i>	AR
<i>SLC25A1</i>	190315	<i>Myasthenic syndrome, congenital, 23, presynaptic;Combined D-2- and L-2-hydroxyglutaric aciduria</i>	AR
<i>SLC25A12</i>	603667	<i>Developmental and epileptic encephalopathy 39</i>	AR
<i>SLC25A13</i>	603859	<i>Citrullinemia, type II, neonatal-onset;Citrullinemia, adult-onset type II</i>	AR
<i>SLC25A15</i>	603861	<i>Hyperornithinemia-hyperammonemia-homocitrullinemia syndrome</i>	AR
<i>SLC25A19</i>	606521	<i>Thiamine metabolism dysfunction syndrome 4 (progressive polyneuropathy type);Microcephaly, Amish type</i>	AR
<i>SLC25A20</i>	613698	<i>Carnitine-acylcarnitine translocase deficiency</i>	AR

SLC25A22	609302	<i>Developmental and epileptic encephalopathy 3</i>	AR
SLC25A3	600370	<i>Mi phosphate carrier deficiency</i>	AR
SLC26A2	606718	<i>Diastrophic dysplasia, broad bone-platyspondylic variant; Achondrogenesis 1b; Epiphyseal dysplasia, multiple, 4; De la Chapelle dysplasia; Diastrophic dysplasia; Atelosteogenesis, type II</i>	AR
SLC26A3	126650	<i>Diarrhea 1, secretory chloride, congenital</i>	AR
SLC26A4	605646	<i>Pendred syndrome; Deafness, AR 4, with enlarged vestibular aqueduct</i>	AR
SLC2A1	138140	<i>GLUT1 deficiency syndrome 2, childhood onset; GLUT1 deficiency syndrome 1, infantile onset, severe; Epilepsy, idiopathic generalized, susceptibility to, 12; Stomatin-deficient cryohydrocytosis with neurologic defects; Dystonia 9</i>	AD, AD, AR
SLC30A2	609617	<i>Zinc deficiency, transient neonatal</i>	AD
SLC33A1	603690	<i>Congenital cataracts, hearing loss, and neurodegeneration; Spastic paraplegia 42, AD</i>	AR, AD
SLC3A1	104614	<i>Cystinuria</i>	AD, AR
SLC4A1	109270	<i>[Blood group, Wright]; Distal renal tubular acidosis 1; Ovalocytosis, SA type; [Malaria, resistance to]; [Blood group, Swann]; [Blood group, Froese]; [Blood group, Waldner]; Cryohydrocytosis; [Blood group, Diego]; Distal renal tubular acidosis 4 with hemolytic anemia; Spherocytosis, type 4</i>	AD, AR
SLC52A1	607883	<i>Riboflavin deficiency</i>	AD
SLC52A3	613350	<i>?Fazio-Londe disease; Brown-Vialetto-Van Laere syndrome 1</i>	AR
SLC5A1	182380	<i>Glucose/galactose malabsorption</i>	AR
SLC5A5	601843	<i>Thyroid dysmorphogenesis 1</i>	AR
SLC6A1	137165	<i>Myoclonic-atonic epilepsy</i>	AD
SLC6A3	126455	<i>Nicotine dependence, protection against; Parkinsonism-dystonia, infantile, 1</i>	AR
SLC6A5	604159	<i>Hyperekplexia 3</i>	AD, AR

SLC7A7	603593	Lysinuric protein intolerance	AR
SLC7A9	604144	Cystinuria	AD, AR
SLCO1B1	604843	Hyperbilirubinemia, Rotor type, digenic	DR
SLCO1B3	605495	Hyperbilirubinemia, Rotor type, digenic	DR
SMPD1	607608	Niemann-Pick disease, type A;Niemann-Pick disease, type B	AR
SNAI2	602150	Waardenburg syndrome, type 2D;Piebaldism	AR, AD
SNX10	614780	Osteopetrosis, AR 8	AR
SOS1	182530	Noonan syndrome 4;?Fibromatosis, gingival, 1	AD
SOX10	602229	Waardenburg syndrome, type 4C;PCWH syndrome;Waardenburg syndrome, type 2E, with or without neurologic involvement	AD
SOX2	184429	Microphthalmia, syndromic 3;Optic nerve hypoplasia and abnormalities of the central nervous system	AD
SOX9	608160	Acampomelic campomelic dysplasia;Campomelic dysplasia;Campomelic dysplasia with autosomal sex reversal	AD
SPAST	604277	Spastic paraplegia 4, AD	AD
SPEG	615950	Centronuclear myopathy 5	AR
SPINK5	605010	Netherton syndrome	AR
SPINT2	605124	Diarrhea 3, secretory sodium, congenital, syndromic	AR
SPR	182125	Dystonia, dopa-responsive, due to sepiapterin reductase deficiency	?AD, AR
SPRED1	609291	Legius syndrome	AD
SPTA1	182860	Pyropoikilocytosis;Elliptocytosis-2;Spherocytosis, type 3	AR, AD
SPTAN1	182810	Developmental and epileptic encephalopathy 5	AD
SPTB	182870	Spherocytosis, type 2;Elliptocytosis-3;Anemia, neonatal hemolytic, fatal or near-fatal	AD
SRD5A3	611715	Congenital disorder of glycosylation, type Iq;Kahrizi syndrome	AR
ST3GAL3	606494	?Developmental and epileptic encephalopathy 15;Mental retardation, AR 12	AR

ST3GAL5	604402	Salt and pepper developmental regression syndrome	AR
STAR	600617	Lipoid adrenal hyperplasia	AR
STAT1	600555	Immunodeficiency 31C, chronic mucocutaneous candidiasis, AD;Immunodeficiency 31B, mycobacterial and viral infections, AR;Immunodeficiency 31A, mycobacteriosis, AD	AD, AR
STAT3	102582	Hyper-IgE recurrent infection syndrome;Autoimmune disease, multisystem, infantile-onset, 1	AD
STIL	181590	Microcephaly 7, primary, AR	AR
STIM1	605921	Myopathy, tubular aggregate, 1;Stormorken syndrome;Immunodeficiency 10	AD, AR
STING1	612374	STING-associated vasculopathy, infantile-onset	AD
STS	300747	Ichthyosis, XL	XLR
STT3B	608605	?Congenital disorder of glycosylation, type Ix	AR
STXBP1	602926	Developmental and epileptic encephalopathy 4	AD
SUCLA2	603921	Mi DNA depletion syndrome 5 (encephalomyopathic with or without methylmalonic aciduria)	AR
SUCLG1	611224	Mi DNA depletion syndrome 9 (encephalomyopathic type with methylmalonic aciduria)	AR
SUMF1	607939	Multiple sulfatase deficiency	AR
SUOX	606887	Sulfite oxidase deficiency	AR
SYNE1	608441	Arthrogryposis multiplex congenita 3, myogenic type;Emery-Dreifuss muscular dystrophy 4, AD;Spinocerebellar ataxia, AR 8	AR, AD
TACO1	612958	Mi complex IV deficiency, nuclear type 8	AR
TFAZZIN	300394	Barth syndrome	XLR
TAT	613018	Tyrosinemia, type II	AR
TBC1D24	613577	Deafness, AD 65;Deafness , AR 86;Myoclonic epilepsy, infantile, familial;Developmental and epileptic encephalopathy 16;DOORS syndrome;Epilepsy, rolandic, with proxysmal exercise-induce dystonia and writer's cramp	AD, AR

TBCE	604934	<i>Hypoparathyroidism-retardation-dysmorphism syndrome;Encephalopathy, progressive, with amyotrophy and optic atrophy;Kenny-Caffey syndrome, type 1</i>	AR
TBL1X	300196	<i>Hypothyroidism, congenital, nongoitrous, 8</i>	XL
TBX19	604614	<i>Adrenocorticotropic hormone deficiency</i>	AR
TBX5	601620	<i>Holt-Oram syndrome</i>	AD
TCAP	604488	<i>Muscular dystrophy, limb-girdle, AR 7;Cardiomyopathy, hypertrophic, 25</i>	AR, AD
TCN2	613441	<i>Transcobalamin II deficiency</i>	AR
TFR2	604720	<i>Hemochromatosis, type 3</i>	AR
TG	188450	<i>Thyroid dysmorphogenesis 3;Autoimmune thyroid disease, susceptibility to, 3</i>	AR
TGM1	190195	<i>Ichthyosis, congenital, AR 1</i>	AR
TH	191290	<i>Segawa syndrome, recessive</i>	AR
THRA	190120	<i>Hypothyroidism, congenital, nongoitrous, 6</i>	AD
THRB	190160	<i>Thyroid hormone resistance, AR;Thyroid hormone resistance;Thyroid hormone resistance, selective pituitary</i>	AR, AD
TJP2	607709	<i>Hypercholanemia, familial;Cholestasis, progressive familial intrahepatic 4</i>	AR
TMCO1	614123	<i>Craniofacial dysmorphism, skeletal anomalies, and mental retardation syndrome</i>	AR
TMEM165	614726	<i>Congenital disorder of glycosylation, type IIk</i>	AR
TMEM70	612418	<i>Mi complex V (ATP synthase) deficiency, nuclear type 2</i>	AR
TNFRSF13 B	604907	<i>Immunodeficiency, common variable, 2;Immunoglobulin A deficiency 2</i>	AD, AR
TNFRSF13 C	606269	<i>Immunodeficiency, common variable, 4</i>	AR
TNFSF4	603594	<i>Myocardial infarction, susceptibility to</i>	
TNNT1	191041	<i>Nemaline myopathy 5, Amish type</i>	AR

TP63	603273	<i>Rapp-Hodgkin syndrome; Orofacial cleft 8; Limb-mammary syndrome; Split-hand/foot malformation 4; Ectrodactyly, ectodermal dysplasia, and cleft lip/palate syndrome 3; Hay-Wells syndrome; ADULT syndrome</i>	AD
TPM2	190990	<i>Arthrogryposis, distal, type 2B4; Arthrogryposis, distal, type 1A; CAP myopathy 2; Nemaline myopathy 4, AD</i>	AD
TPM3	191030	<i>Myopathy, congenital, with fiber-type disproportion; Nemaline myopathy 1, AD or recessive; CAP myopathy 1</i>	AD, AR
TPO	606765	<i>Thyroid dyshormonogenesis 2A</i>	AR
TPP1	607998	<i>Ceroid lipofuscinosis, neuronal, 2; Spinocerebellar ataxia, AR 7</i>	AR
TRH	613879	<i>Thyrotropin-releasing hormone deficiency</i>	AR
TRHR	188545	<i>Hypothyroidism, congenital, nongoitrous, 7</i>	AR
TRIP11	604505	<i>Achondrogenesis, type IA; Osteochondrodysplasia</i>	AR
TRMU	610230	<i>Liver failure, transient infantile; Deafness, Mi, modifier of</i>	AR, Mi
TRPV4	605427	<i>SED, Maroteaux type; Spondylometaphyseal dysplasia, Kozlowski type; Metatropic dysplasia; Brachyolmia type 3; Neuronopathy, distal hereditary motor, type VIII; [Sodium serum level QTL 1]; ?Avascular necrosis of femoral head, primary, 2; Scapuloperoneal spinal muscular atrophy; Parastremmatic dwarfism; Hereditary motor and sensory neuropathy, type IIc; Digital arthropathy-brachydactyly, familial</i>	AD
TSC1	605284	<i>Lymphangiomyomatosis; Focal cortical dysplasia, type II, somatic; Tuberous sclerosis-1</i>	AD
TSC2	191092	<i>?Focal cortical dysplasia, type II, somatic; Lymphangiomyomatosis, somatic; Tuberous sclerosis-2</i>	AD
TSM	604723	<i>Combined oxidative phosphorylation deficiency 3</i>	AR

TSHB	188540	Hypothyroidism, congenital, nongoitrous 4	AR
TSHR	603372	Hyperthyroidism, nonautoimmune;Hypothyroidism, congenital, nongoitrous, 1;Hyperthyroidism, familial gestational	AD, AR
TSPYL1	604714	Sudden infant death with dysgenesis of the testes syndrome	AR
TTC7A	609332	Gastrointestinal defects and immunodeficiency syndrome	AR
TTN	188840	Cardiomyopathy, dilated, 1G;Muscular dystrophy, limb-girdle, AR 10;Tibial muscular dystrophy, tardive;Myopathy, myofibrillar, 9, with early respiratory failure;Salih myopathy;Cardiomyopathy, familial hypertrophic, 9	AR, AD
TUBA8	605742	Cortical dysplasia, complex, with other brain malformations 8	AR
TUBB1	612901	Macrothrombocytopenia, AD, TUBB1-related	AD
TUBB2A	615101	Cortical dysplasia, complex, with other brain malformations 5	AD
TWNK	606075	Progressive external ophthalmoplegia with Mi DNA deletions, AD 3;Perrault syndrome 5;Mi DNA depletion syndrome 7 (hepatocerebral type)	AD, AR
UBA1	314370	VEXAS syndrome, somatic;Spinal muscular atrophy, XL 2, infantile	XLR
UBR1	605981	Johanson-Blizzard syndrome	AR
UGT1A1	191740	[Gilbert syndrome];Crigler-Najjar syndrome, type II;Crigler-Najjar syndrome, type I;Hyperbilirubinemia, familial transient neonatal;[Bilirubin, serum level of, QTL1]	AR
UMPS	613891	Orotic aciduria	AR
UNG	191525	Immunodeficiency with hyper IgM, type 5	AR
UPB1	606673	Beta-ureidopropionase deficiency	AR
UQCRC2	191329	Mi complex III deficiency, nuclear type 5	AR
UROD	613521	Porphyria, hepatoerythropoietic;Porphyria cutanea tarda	AD, AR

UROS	606938	<i>Porphyria, congenital erythropoietic</i>	AR
WAS	300392	<i>Wiskott-Aldrich syndrome;Thrombocytopenia, XL;Neutropenia, severe congenital, XL;Thrombocytopenia, XL, intermittent</i>	XLR
WDPCP	613580	<i>Congenital heart defects, hamartomas of tongue, and polysyndactyly;?Bardet-Biedl syndrome 15</i>	AR
WDR62	613583	<i>Microcephaly 2, primary, AR, with or without cortical malformations</i>	AR
WDR73	616144	<i>Galloway-Mowat syndrome 1</i>	AR
WFS1	606201	<i>?Cataract 41;Wolfram-like syndrome, AD;Wolfram syndrome 1;Diabetes mellitus, noninsulin-dependent, association with;Deafness, AD 6/14/38</i>	AD, AR
WNK1	605232	<i>Neuropathy, hereditary sensory and autonomic, type II;Pseudohypoaldosteronism, type IIC</i>	AR, AD
WT1	607102	<i>Denys-Drash syndrome;Mesothelioma, somatic;Frasier syndrome;Meacham syndrome;Wilms tumor, type 1;Nephrotic syndrome, type 4</i>	AD, SM, AD
ZAP70	176947	<i>Autoimmune disease, multisystem, infantile-onset, 2;Immunodeficiency 48</i>	AR
ZEB2	605802	<i>Mowat-Wilson syndrome</i>	AD
ZFP57	612192	<i>Diabetes mellitus, transient neonatal 1</i>	AD
ZNF423	604557	<i>Joubert syndrome 19;Nephronophthisis 14</i>	AD, AR