

GENE	CHROMOSOME	LOCUS	DISEASE	OMIM
AAAS	chr12	12q13	Achalasia-addisonianism-alacrimia syndrome	231550
AARS2	chr6	6p21.1	Combined oxidative phosphorylation deficiency 8	614096
AARS2	chr6	6p21.1	Leukoencephalopathy progressive with ovarian failure	615889
AASS	chr7	7q31.3	Hyperlysinemia	238700
ABAT	chr16	16p13.3	GABA-transaminase deficiency	613163
ABCA1	chr9	9q22-q31	Tangier disease	205400
ABCA12	chr2	2q34	Ichthyosis congenital autosomal recessive 4B (harlequin)	242500
ABCA12	chr2	2q34	Ichthyosis congenital autosomal recessive 4A	601277
ABCA2	chr9	9q34	Intellectual developmental disorder with poor growth and with or without seizures or ataxia	618808
ABCA3	chr16	16p13.3	Surfactant metabolism dysfunction pulmonary 3	610921
ABCA4	chr1	1p22.1	Retinal dystrophy early-onset severe	248200
ABCA4	chr1	1p22.1	Stargardt disease 1	248200
ABCA4	chr1	1p22.1	Fundus flavimaculatus	248200
ABCA4	chr1	1p22.1	Retinitis pigmentosa 19	601718
ABCA5	chr17	17q24.2	Hypertrichosis congenital generalized with gingival hyperplasia	135400
ABCB11	chr2	2q24	Cholestasis progressive familial intrahepatic 2	601847
ABCB11	chr2	2q24	Cholestasis benign recurrent intrahepatic 2	605479
ABCB4	chr7	7q21.1	Gallbladder disease 1	600803
ABCB4	chr7	7q21.1	Cholestasis intrahepatic of pregnancy 3	614972
ABCB4	chr7	7q21.1	Cholestasis progressive familial intrahepatic 3	602347
ABCB7	chrX	Xq13.1-q13.3	Anemia sideroblastic with ataxia	301310
ABCC2	chr10	10q24	Dubin-Johnson syndrome	237500
ABCC6	chr16	16p13.1	Pseudoxanthoma elasticum	264800
ABCC6	chr16	16p13.1	Arterial calcification generalized of infancy 2	614473
ABCC8	chr11	11p15.1	Diabetes mellitus permanent neonatal 3 with or without neurologic features	618857
ABCC8	chr11	11p15.1	Hyperinsulinemic hypoglycemia familial 1	256450
ABCD1	chrX	Xq28	Adrenomyeloneuropathy adult	300100
ABCD1	chrX	Xq28	Adrenoleukodystrophy	300100
ABCD3	chr1	1p22-p21	Bile acid synthesis defect congenital 5	616278
ABCD4	chr14	14q24.3	Methylmalonic aciduria and homocystinuria cblJ type	614857
ABCG8	chr2	2p21	Sitosterolemia 1	210250
ABHD12	chr20	20p11.21	Polyneuropathy hearing loss ataxia retinitis pigmentosa and cataract	612674
ABHD5	chr3	3p21	Chanarin-Dorfman syndrome	275630
ACACA	chr17	17q21	Acetyl-CoA carboxylase deficiency	613933
ACAD8	chr11	11q25	Isobutyryl-CoA dehydrogenase deficiency	611283
ACAD9	chr3	3q26	Mitochondrial complex I deficiency nuclear type 20	611126
ACADM	chr1	1p31	Acyl-CoA dehydrogenase medium chain deficiency of	201450
ACADS	chr12	12q22-qter	Acyl-CoA dehydrogenase short-chain deficiency of	201470
ACADSB	chr10	10q25-q26	2-methylbutyrylglycinuria	610006

ACADVL	chr17	17p13	VLCAD deficiency	201475
ACAN	chr15	15q26.1	Spondyloepimetaphyseal dysplasia aggrecan type	612813
ACAT1	chr11	11q22.3-q23.1	Alpha-methylacetoacetic aciduria	203750
ACBD5	chr10	10p12.1	Retinal dystrophy with leukodystrophy	618863
ACE	chr17	17q23	Renal tubular dysgenesis	267430
ACKR1	chr1	1q23.2	Blood group Duffy system	110700
ACKR1	chr1	1q23.2	White blood cell count QTL	611862
ACO2	chr22	22q13.2	Infantile cerebellar-retinal degeneration	614559
ACO2	chr22	22q13.2	Optic atrophy 9	616289
ACOX1	chr17	17q25.1	Peroxisomal acyl-CoA oxidase deficiency	264470
ACP2	chr11	11p11.2	Lysosomal acid phosphatase deficiency	200950
ACP5	chr19	19p13.3-p13.1	Spondyloenchondrodysplasia with immune dysregulation	607944
ACTA1	chr1	1q42.1	Myopathy actin congenital with cores	161800
ACTA1	chr1	1q42.1	Nemaline myopathy 3 autosomal dominant or recessive	161800
ACTA1	chr1	1q42.1	Myopathy congenital with fiber-type disproportion 1	255310
ACTA1	chr1	1q42.1	Myopathy actin congenital with excess of thin myofilaments	161800
ACY1	chr3	3p21.1	Aminoacylase 1 deficiency	609924
ADA	chr20	20q13.11	Adenosine deaminase deficiency partial	102700
ADA	chr20	20q13.11	Severe combined immunodeficiency due to ADA deficiency	102700
ADA2	chr22	22q11.2	Vasculitis autoinflammation immunodeficiency and hematologic defects syndrome	615688
ADA2	chr22	22q11.2	Sneddon syndrome	182410
ADAM17	chr2	2p25	Inflammatory skin and bowel disease neonatal 1	614328
ADAM22	chr7	7q21	Epileptic encephalopathy early infantile 61	617933
ADAM9	chr8	8p11.23	Cone-rod dystrophy 9	612775
ADAMTS10	chr19	19p13.3-p13.2	Weill-Marchesani syndrome 1 recessive	277600
ADAMTS13	chr9	9q34	Thrombotic thrombocytopenic purpura hereditary	274150
ADAMTS17	chr15	15q24	Weill-Marchesani 4 syndrome recessive	613195
ADAMTS18	chr16	16q23	Microcornea myopic chorioretinal atrophy and telecanthus	615458
ADAMTS2	chr5	5q23	Ehlers-Danlos syndrome dermatosparaxis type	225410
ADAMTSL2	chr9	9q34.2	Geleophysic dysplasia 1	231050
ADAMTSL4	chr1	1q21	Ectopia lentis et pupillae	225200
ADAMTSL4	chr1	1q21	Ectopia lentis isolated autosomal recessive	225100
ADAR	chr1	1q21.3	Dyschromatosis symmetrica hereditaria	127400
ADAR	chr1	1q21.3	Aicardi-Goutieres syndrome 6	615010
ADARB1	chr21	21q22.3	Neurodevelopmental disorder with hypotonia microcephaly and seizures	618862
ADCY1	chr7	7p13-p12	Deafness autosomal recessive 44	610154
ADCY3	chr2	2p24-p22	Obesity susceptibility to BMIQ19	617885
ADCY6	chr12	12q12-q13	Lethal congenital contracture syndrome 8	616287
ADGRG1	chr16	16q13	Polymicrogyria bilateral frontoparietal	606854
ADGRV1	chr5	5q14.3	Usher syndrome type 2C	605472

<i>ADGRV1</i>	chr5	5q14.3	Usher syndrome type 2C GPR98/PDZD7 digenic	605472
<i>ADK</i>	chr10	10q11-q24	Hypermethioninemia due to adenosine kinase deficiency	614300
<i>ADRB2</i>	chr5	5q32-q34	Obesity susceptibility to	601665
<i>ADRB3</i>	chr8	8p12-p11.2	Obesity susceptibility to	601665
<i>ADSL</i>	chr22	22q13.1	Adenylosuccinase deficiency	103050
<i>AEBP1</i>	chr7	7p13	Ehlers-Danlos syndrome classic-like 2	618000
<i>AFF2</i>	chrX	Xq28	Mental retardation X-linked FRAXE type	309548
<i>AFG3L2</i>	chr18	18p11	Spastic ataxia 5 autosomal recessive	614487
<i>AFP</i>	chr4	4q11-q13	Alpha-fetoprotein deficiency	615969
<i>AGA</i>	chr4	4q32-q33	Aspartylglucosaminuria	208400
<i>AGK</i>	chr7	7q34	Sengers syndrome	212350
<i>AGK</i>	chr7	7q34	Cataract 38 autosomal recessive	614691
<i>AGL</i>	chr1	1p21	Glycogen storage disease IIIb	232400
<i>AGL</i>	chr1	1p21	Glycogen storage disease IIIa	232400
<i>AGPAT2</i>	chr9	9q34.3	Lipodystrophy congenital generalized type 1	608594
<i>AGPS</i>	chr2	2q31	Rhizomelic chondrodysplasia punctata type 3	600121
<i>AGRN</i>	chr1	1pter-p32	Myasthenic syndrome congenital 8 with pre- and postsynaptic defects	615120
<i>AGRP</i>	chr16	16q22	Obesity late-onset	601665
<i>AGRP</i>	chr16	16q22	Leanness inherited	601665
<i>AGT</i>	chr1	1q42-q43	Renal tubular dysgenesis	267430
<i>AGTPBP1</i>	chr9	9q21.33	Neurodegeneration childhood-onset with cerebellar atrophy	618276
<i>AGTR1</i>	chr3	3q21-q25	Renal tubular dysgenesis	267430
<i>AGXT</i>	chr2	2q36-q37	Hyperoxaluria primary type 1	259900
<i>AGXT2</i>	chr5	5p13	Beta-aminoisobutyric acid urinary excretion of	210100
<i>AHCY</i>	chr20	20cen-q13.1	Hypermethioninemia with deficiency of S-adenosylhomocysteine hydrolase	613752
<i>AHI1</i>	chr6	6q23.3	Joubert syndrome 3	608629
<i>AHR</i>	chr7	7p15	Retinitis pigmentosa 85	618345
<i>AHSG</i>	chr3	3q27	Alopecia-mental retardation syndrome 1	203650
<i>AICDA</i>	chr12	12p13	Immunodeficiency with hyper-IgM type 2	605258
<i>AIFM1</i>	chrX	Xq26.1	Cowchock syndrome	310490
<i>AIFM1</i>	chrX	Xq26.1	Spondyloepimetaphyseal dysplasia X-linked with hypomyelinating leukodystrophy	300232
<i>AIFM1</i>	chrX	Xq26.1	Combined oxidative phosphorylation deficiency 6	300816
<i>AIFM1</i>	chrX	Xq26.1	Deafness X-linked 5	300614
<i>AIMP1</i>	chr4	4q24	Leukodystrophy hypomyelinating 3	260600
<i>AIPL1</i>	chr17	17p13.1	Leber congenital amaurosis 4	604393
<i>AIPL1</i>	chr17	17p13.1	Retinitis pigmentosa juvenile	604393
<i>AIPL1</i>	chr17	17p13.1	Cone-rod dystrophy	604393
<i>AIRE</i>	chr21	21q22.3	Autoimmune polyendocrinopathy syndrome type I with or without reversible metaphyseal dysplasia	240300
<i>AK1</i>	chr9	9q34.1	Hemolytic anemia due to adenylate kinase deficiency	612631
<i>AK2</i>	chr1	1p34	Reticular dysgenesis	267500

AK7	chr14	14q32.2	Spermatogenic failure 27	617965
AKR1C2	chr10	10p15-p14	46XY sex reversal 8	614279
AKR1C4	chr10	10p15-p14	46XY sex reversal 8 modifier of	614279
AKR1D1	chr7	7q32-q33	Bile acid synthesis defect congenital 2	235555
ALAD	chr9	9q34	Porphyria acute hepatic	612740
ALAD	chr9	9q34	Lead poisoning susceptibility to	612740
ALAS2	chrX	Xp11.21	Protoporphyrin erythropoietic X-linked	300752
ALAS2	chrX	Xp11.21	Anemia sideroblastic 1	300751
ALDH18A1	chr10	10q24.3	Cutis laxa autosomal recessive type IIIA	219150
ALDH18A1	chr10	10q24.3	Spastic paraplegia 9B autosomal recessive	616586
ALDH1A3	chr15	15q26	Microphthalmia isolated 8	615113
ALDH3A2	chr17	17p11.2	Sjogren-Larsson syndrome	270200
ALDH4A1	chr1	1p36	Hyperprolinemia type II	239510
ALDH5A1	chr6	6p22	Succinic semialdehyde dehydrogenase deficiency	271980
ALDH6A1	chr14	14q24.3	Methylmalonate semialdehyde dehydrogenase deficiency	614105
ALDH7A1	chr5	5q31	Epilepsy pyridoxine-dependent	266100
ALDOA	chr16	16p11.2	Glycogen storage disease XII	611881
ALDOB	chr9	9q22.3	Fructose intolerance hereditary	229600
ALG1	chr16	16p13.3	Congenital disorder of glycosylation type I _k	608540
ALG11	chr13	13q14.3	Congenital disorder of glycosylation type I _p	613661
ALG12	chr22	22q13.33	Congenital disorder of glycosylation type I _g	607143
ALG14	chr1	1p21.3	Myasthenic syndrome congenital 15 without tubular aggregates	616227
ALG2	chr9	9q22	Myasthenic syndrome congenital 14 with tubular aggregates	616228
ALG2	chr9	9q22	Congenital disorder of glycosylation type I _i	607906
ALG3	chr3	3q27	Congenital disorder of glycosylation type I _d	601110
ALG6	chr1	1p22.3	Congenital disorder of glycosylation type I _c	603147
ALG8	chr11	11pter-p15.5	Congenital disorder of glycosylation type I _h	608104
ALG8	chr11	11pter-p15.5	Polycystic liver disease 3 with or without kidney cysts	617874
ALG9	chr11	11q23	Gillessen-Kaesbach-Nishimura syndrome	263210
ALG9	chr11	11q23	Congenital disorder of glycosylation type II	608776
ALMS1	chr2	2p13	Alstrom syndrome	203800
ALOX12B	chr17	17p13.1	Ichthyosis congenital autosomal recessive 2	242100
ALOXE3	chr17	17p13.1	Ichthyosis congenital autosomal recessive 3	606545
ALPL	chr1	1p36.1-p34	Hypophosphatasia adult	146300
ALPL	chr1	1p36.1-p34	Odontohypophosphatasia	146300
ALPL	chr1	1p36.1-p34	Hypophosphatasia childhood	241510
ALPL	chr1	1p36.1-p34	Hypophosphatasia infantile	241500
ALS2	chr2	2q33	Primary lateral sclerosis juvenile	606353
ALS2	chr2	2q33	Amyotrophic lateral sclerosis 2 juvenile	205100
ALS2	chr2	2q33	Spastic paralysis infantile onset ascending	607225
ALX1	chr12	12q21.3-q22	Frontonasal dysplasia 3	613456
ALX3	chr1	1p21-p13	Frontonasal dysplasia 1	136760
ALX4	chr11	11p11.2	Frontonasal dysplasia 2	613451
AMACR	chr5	5p13.2-q11.1	Bile acid synthesis defect congenital 4	214950

<i>AMACR</i>	chr5	5p13.2-q11.1	Alpha-methylacyl-CoA racemase deficiency	614307
<i>AMBN</i>	chr4	4q21	Amelogenesis imperfecta type IF	616270
<i>AMH</i>	chr19	19p13.3-p13.2	Persistent Mullerian duct syndrome type I	261550
<i>AMHR2</i>	chr12	12q13	Persistent Mullerian duct syndrome type II	261550
<i>AMN</i>	chr14	14q32	Imerslund-Grasbeck syndrome 2	618882
<i>AMPD1</i>	chr1	1p21-p13	Myopathy due to myoadenylate deaminase deficiency	615511
<i>AMPD2</i>	chr1	1p13.3	Spastic paraplegia 63	615686
<i>AMPD2</i>	chr1	1p13.3	Pontocerebellar hypoplasia type 9	615809
<i>AMPD3</i>	chr11	11pter-p13	AMP deaminase deficiency erythrocytic	612874
<i>AMT</i>	chr3	3p21.2-p21.1	Glycine encephalopathy	605899
<i>ANAPC1</i>	chr2	2q13	Rothmund-Thomson syndrome type 1	618625
<i>ANGPTL3</i>	chr1	1p31	Hypobetalipoproteinemia familial 2	605019
<i>ANK1</i>	chr8	8p11.2	Spherocytosis type 1	182900
<i>ANK3</i>	chr10	10q21	Mental retardation autosomal recessive 37	615493
<i>ANKLE2</i>	chr12	12q24.33	Microcephaly 16 primary autosomal recessive	616681
<i>ANKS6</i>	chr9	9q22.33	Nephronophthisis 16	615382
<i>ANO10</i>	chr3	3p22.1	Spinocerebellar ataxia autosomal recessive 10	613728
<i>ANO5</i>	chr11	11p14.3	Miyoshi muscular dystrophy 3	613319
<i>ANO5</i>	chr11	11p14.3	Muscular dystrophy limb-girdle autosomal recessive 12	611307
<i>ANO6</i>	chr12	12q12	Scott syndrome	262890
<i>ANOS1</i>	chrX	Xp22.31	Hypogonadotropic hypogonadism 1 with or without anosmia (Kallmann syndrome 1)	308700
<i>ANTXR1</i>	chr2	2p13.1	GAPO syndrome	230740
<i>ANTXR2</i>	chr4	4q21	Hyaline fibromatosis syndrome	228600
<i>AP1S1</i>	chr7	7q22.1	MEDNIK syndrome	609313
<i>AP1S2</i>	chrX	Xp22	Mental retardation X-linked syndromic 5	304340
<i>AP3B1</i>	chr5	5q14.1	Hermansky-Pudlak syndrome 2	608233
<i>AP3B2</i>	chr15	15q25.2	Epileptic encephalopathy early infantile 48	617276
<i>AP3D1</i>	chr19	19p13.3	Hermansky-Pudlak syndrome 10	617050
<i>AP4B1</i>	chr1	1p13.2	Spastic paraplegia 47 autosomal recessive	614066
<i>AP4E1</i>	chr15	15q21.2	Spastic paraplegia 51 autosomal recessive	613744
<i>AP4M1</i>	chr7	7q22.1	Spastic paraplegia 50 autosomal recessive	612936
<i>AP4S1</i>	chr14	14q12	Spastic paraplegia 52 autosomal recessive	614067
<i>AP5Z1</i>	chr7	7p22.1	Spastic paraplegia 48 autosomal recessive	613647
<i>APC2</i>	chr19	19p13.3	Sotos syndrome 3	617169
<i>APC2</i>	chr19	19p13.3	Cortical dysplasia complex with other brain malformations 10	618677
<i>APOB</i>	chr2	2p24	Hypobetalipoproteinemia	615558
<i>APOC2</i>	chr19	19q13.2	Hyperlipoproteinemia type Ib	207750
<i>APOE</i>	chr19	19q13.2	Sea-blue histiocyte disease	269600
<i>APRT</i>	chr16	16q24.3	Adenine phosphoribosyltransferase deficiency	614723
<i>APTX</i>	chr9	9p13.3	Ataxia early-onset with oculomotor apraxia and hypoalbuminemia	208920
<i>AQP2</i>	chr12	12q13	Diabetes insipidus nephrogenic	125800
<i>AQP7</i>	chr9	9p13	Glycerol quantitative trait locus	614411

AR	chrX	Xq11-q12	Hypospadias 1 X-linked	300633
AR	chrX	Xq11-q12	Androgen insensitivity	300068
AR	chrX	Xq11-q12	Androgen insensitivity partial with or without breast cancer	312300
AR	chrX	Xq11-q12	Spinal and bulbar muscular atrophy of Kennedy	313200
ARFGEF2	chr20	20q13.13	Periventricular heterotopia with microcephaly	608097
ARG1	chr6	6q23	Argininemia	207800
ARHGDI1	chr17	17q25.3	Nephrotic syndrome type 8	615244
ARHGEF9	chrX	Xq22.1	Epileptic encephalopathy early infantile 8	300607
ARL13B	chr3	3q11.2	Joubert syndrome 8	612291
ARL2BP	chr16	16q13	Retinitis pigmentosa with or without situs inversus	615434
ARL3	chr10	10q23.3	Joubert syndrome 35	618161
ARL6	chr3	3p12-q13	Bardet-Biedl syndrome 3	600151
ARL6	chr3	3p12-q13	Bardet-Biedl syndrome 1 modifier of	209900
ARL6IP1	chr16	16p12-p11.2	Spastic paraplegia 61 autosomal recessive	615685
ARMC4	chr10	10p12.1	Ciliary dyskinesia primary 23	615451
ARNT2	chr15	15q24	Webb-Dattani syndrome	615926
ARSA	chr22	22q13.31-qter	Metachromatic leukodystrophy	250100
ARSB	chr5	5q11-q13	Mucopolysaccharidosis type VI (Maroteaux-Lamy)	253200
ARV1	chr1	1q42.2	Epileptic encephalopathy early infantile 38	617020
ARX	chrX	Xp22.13	Epileptic encephalopathy early infantile 1	308350
ARX	chrX	Xp22.13	Lissencephaly X-linked 2	300215
ARX	chrX	Xp22.13	Proud syndrome	300004
ARX	chrX	Xp22.13	Mental retardation X-linked 29 and others	300419
ARX	chrX	Xp22.13	Partington syndrome	309510
ARX	chrX	Xp22.13	Hydranencephaly with abnormal genitalia	300215
ASAH1	chr8	8p22-p21.3	Farber lipogranulomatosis	228000
ASAH1	chr8	8p22-p21.3	Spinal muscular atrophy with progressive myoclonic epilepsy	159950
ASCC1	chr10	10q22.1	Spinal muscular atrophy with congenital bone fractures 2	616867
ASL	chr7	7cen-q11.2	Argininosuccinic aciduria	207900
ASNS	chr7	7q21-q31	Asparagine synthetase deficiency	615574
ASPA	chr17	17pter-p13	Canavan disease	271900
ASPH	chr8	8q12.1	Traboulsi syndrome	601552
ASPM	chr1	1q31	Microcephaly 5 primary autosomal recessive	608716
ASS1	chr9	9q34.1	Citrullinemia	215700
ATAD3A	chr1	1p36.33	Harel-Yoon syndrome	617183
ATAD3A	chr1	1p36.33	Pontocerebellar hypoplasia hypotonia and respiratory insufficiency syndrome neonatal lethal	618810
ATCAY	chr19	19p13.3	Ataxia cerebellar Cayman type	601238
ATF6	chr1	1q22-q23	Achromatopsia 7	616517
ATIC	chr2	2q35	AICA-ribosiduria due to ATIC deficiency	608688
ATM	chr11	11q22.3	Ataxia-telangiectasia	208900
ATOH7	chr10	10q21.3-q22.1	Persistent hyperplastic primary vitreous autosomal recessive	221900
ATP13A2	chr1	1p36	Kufor-Rakeb syndrome	606693
ATP13A2	chr1	1p36	Spastic paraplegia 78 autosomal recessive	617225

<i>ATP2A1</i>	chr16	16p12	Brody myopathy	601003
<i>ATP2B2</i>	chr3	3p26-p25	Deafness autosomal recessive 12 modifier of	601386
<i>ATP2B3</i>	chrX	Xq28	Spinocerebellar ataxia X-linked 1	302500
<i>ATP6AP2</i>	chrX	Xp11.4	Congenital disorder of glycosylation type IIr	301045
<i>ATP6AP2</i>	chrX	Xp11.4	Mental retardation X-linked syndromic Hedera type	300423
<i>ATP6AP2</i>	chrX	Xp11.4	Parkinsonism with spasticity X-linked	300911
<i>ATP6V0A2</i>	chr12	12q24.3	Wrinkly skin syndrome	278250
<i>ATP6V0A2</i>	chr12	12q24.3	Cutis laxa autosomal recessive type IIA	219200
<i>ATP6V1B1</i>	chr2	2cen-q13	Renal tubular acidosis with deafness	267300
<i>ATP7A</i>	chrX	Xq12-q13	Occipital horn syndrome	304150
<i>ATP7A</i>	chrX	Xq12-q13	Menkes disease	309400
<i>ATP7A</i>	chrX	Xq12-q13	Spinal muscular atrophy distal X-linked 3	300489
<i>ATP7B</i>	chr13	13q14.3-q21.1	Wilson disease	277900
<i>ATP8A2</i>	chr13	13q12	Cerebellar ataxia mental retardation and dysequilibrium syndrome 4	615268
<i>ATP8B1</i>	chr18	18q21	Cholestasis progressive familial intrahepatic 1	211600
<i>ATP8B1</i>	chr18	18q21	Cholestasis benign recurrent intrahepatic	243300
<i>ATPAF2</i>	chr17	17p11.2	Mitochondrial complex V (ATP synthase) deficiency nuclear type 1	604273
<i>ATR</i>	chr3	3q22-q24	Seckel syndrome 1	210600
<i>ATRX</i>	chrX	Xq13	Mental retardation-hypotonic facies syndrome X-linked	309580
<i>AUH</i>	chr9	9q22.31	3-methylglutaconic aciduria type I	250950
<i>AURKC</i>	chr19	19q13.43	Spermatogenic failure 5	243060
<i>AVPR2</i>	chrX	Xq28	Nephrogenic syndrome of inappropriate antidiuresis	300539
<i>AVPR2</i>	chrX	Xq28	Diabetes insipidus nephrogenic	304800
<i>B2M</i>	chr15	15q21-q22	Immunodeficiency 43	241600
<i>B3GALNT2</i>	chr1	1q42.3	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies type A 11	615181
<i>B3GALT6</i>	chr1	1p36.3	Ehlers-Danlos syndrome spondylodysplastic type 2	615349
<i>B3GALT6</i>	chr1	1p36.3	Spondyloepimetaphyseal dysplasia with joint laxity type 1 with or without fractures	271640
<i>B3GAT3</i>	chr11	11q12-q13	Multiple joint dislocations short stature craniofacial dysmorphism with or without congenital heart defects	245600
<i>B3GLCT</i>	chr13	13q12.3	Peters-plus syndrome	261540
<i>B4GALNT1</i>	chr12	12q13.3	Spastic paraplegia 26 autosomal recessive	609195
<i>B4GALT1</i>	chr9	9p13	Congenital disorder of glycosylation type II d	607091
<i>B4GALT7</i>	chr5	5q35.2-q35.3	Ehlers-Danlos syndrome spondylodysplastic type 1	130070
<i>B4GAT1</i>	chr11	11q13.2	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies) type A 13	615287
<i>B9D1</i>	chr17	17p11.2	Meckel syndrome 9	614209
<i>B9D1</i>	chr17	17p11.2	Joubert syndrome 27	617120
<i>B9D2</i>	chr19	19q13.2	Joubert syndrome 34	614175

<i>B9D2</i>	chr19	19q13.2	Meckel syndrome 10	614175
<i>BAAT</i>	chr9	9q22.3	Hypercholanemia familial	607748
<i>BANF1</i>	chr11	11q13.1	Nestor-Guillermo progeria syndrome	614008
<i>BBIP1</i>	chr10	10q25.2	Bardet-Biedl syndrome 18	615995
<i>BBS1</i>	chr11	11q13	Bardet-Biedl syndrome 1	209900
<i>BBS10</i>	chr12	12q21.2	Bardet-Biedl syndrome 10	615987
<i>BBS12</i>	chr4	4q27	Bardet-Biedl syndrome 12	615989
<i>BBS2</i>	chr16	16q21	Bardet-Biedl syndrome 2	615981
<i>BBS2</i>	chr16	16q21	Retinitis pigmentosa 74	616562
<i>BBS4</i>	chr15	15q22.3-q23	Bardet-Biedl syndrome 4	615982
<i>BBS5</i>	chr2	2q31	Bardet-Biedl syndrome 5	615983
<i>BBS7</i>	chr4	4q27	Bardet-Biedl syndrome 7	615984
<i>BBS9</i>	chr7	7p14	Bardet-Biedl syndrome 9	615986
<i>BCAM</i>	chr19	19q13.2	Blood group Lutheran null	247420
<i>BCAP31</i>	chrX	Xq28	Deafness dystonia and cerebral hypomyelination	300475
<i>BCAT2</i>	chr19	19q13	Hypervalinemia or hyperleucine-isoleucinemia	618850
<i>BCKDHA</i>	chr19	19q13.1-q13.2	Maple syrup urine disease type Ia	248600
<i>BCKDHB</i>	chr6	6q14	Maple syrup urine disease type Ib	248600
<i>BCL10</i>	chr1	1p22	Immunodeficiency 37	616098
<i>BCORL1</i>	chrX	Xq25-q26.1	Shukla-Vernon syndrome	301029
<i>BCS1L</i>	chr2	2q33	Leigh syndrome	256000
<i>BCS1L</i>	chr2	2q33	GRACILE syndrome	603358
<i>BCS1L</i>	chr2	2q33	Bjornstad syndrome	262000
<i>BCS1L</i>	chr2	2q33	Mitochondrial complex III deficiency nuclear type 1	124000
<i>BDP1</i>	chr5	5q13	Deafness autosomal recessive 112	618257
<i>BEST1</i>	chr11	11q13	Bestrophinopathy autosomal recessive	611809
<i>BFSP1</i>	chr20	20p12.1-p11.23	Cataract 33 multiple types	611391
<i>BGN</i>	chrX	Xq28	Meester-Loeys syndrome	300989
<i>BGN</i>	chrX	Xq28	Spondyloepimetaphyseal dysplasia X-linked	300106
<i>BHLHA9</i>	chr17	17p13.3	Syndactyly mesoaxial synostotic with phalangeal reduction	609432
<i>BHLHA9</i>	chr17	17p13.3	Camptosynpolydactyly complex	607539
<i>BIN1</i>	chr2	2q14	Centronuclear myopathy 2	255200
<i>BLM</i>	chr15	15q26.1	Bloom syndrome	210900
<i>BLNK</i>	chr10	10q23.2	Agammaglobulinemia 4	613502
<i>BLOC1S3</i>	chr19	19q13	Hermansky-Pudlak syndrome 8	614077
<i>BLOC1S6</i>	chr15	15q15	Hermansky-pudlak syndrome 9	614171
<i>BLVRA</i>	chr7	7p13	Hyperbiliverdinemia	614156
<i>BMP1</i>	chr8	8p21	Osteogenesis imperfecta type XIII	614856
<i>BMP2</i>	chr20	20p12	HFE hemochromatosis modifier of	235200
<i>BMPER</i>	chr7	7p14.3	Diaphanospondylodysostosis	608022
<i>BMPR1B</i>	chr4	4q23-q24	Acromesomelic dysplasia Demirhan type	609441
<i>BOLA3</i>	chr2	2p13.1	Multiple mitochondrial dysfunctions syndrome 2 with hyperglycinemia	614299
<i>BPGM</i>	chr7	7q31-q34	Erythrocytosis familial 8	222800
<i>BRAT1</i>	chr7	7p22.3	Rigidity and multifocal seizure syndrome lethal neonatal	614498

<i>BRAT1</i>	chr7	7p22.3	Neurodevelopmental disorder with cerebellar atrophy and with or without seizures	618056
<i>BRF1</i>	chr14	14q32.33	Cerebellofaciodental syndrome	616202
<i>BRWD3</i>	chrX	Xq13	Mental retardation X-linked 93	300659
<i>BSCL2</i>	chr11	11q13	Lipodystrophy congenital generalized type 2	269700
<i>BSCL2</i>	chr11	11q13	Encephalopathy progressive with or without lipodystrophy	615924
<i>BSND</i>	chr1	1p31	Sensorineural deafness with mild renal dysfunction	602522
<i>BSND</i>	chr1	1p31	Bartter syndrome type 4a	602522
<i>BTB</i>	chr3	3p25	Biotinidase deficiency	253260
<i>BTK</i>	chrX	Xq21.3-q22	Isolated growth hormone deficiency type III with agammaglobulinemia	307200
<i>BTK</i>	chrX	Xq21.3-q22	Agammaglobulinemia X-linked 1	300755
<i>BUB1B</i>	chr15	15q15	Mosaic variegated aneuploidy syndrome 1	257300
<i>BVES</i>	chr6	6q21	Muscular dystrophy limb-girdle autosomal recessive 25	616812
<i>C12orf4</i>	chr12	12p13.3	Mental retardation autosomal recessive 66	618221
<i>C12orf57</i>	chr12	12p13	Temtamy syndrome	218340
<i>C12orf65</i>	chr12	12q24.31	Spastic paraplegia 55 autosomal recessive	615035
<i>C12orf65</i>	chr12	12q24.31	Combined oxidative phosphorylation deficiency 7	613559
<i>C19orf12</i>	chr19	19q12	Neurodegeneration with brain iron accumulation 4	614298
<i>C19orf12</i>	chr19	19q12	Spastic paraplegia 43 autosomal recessive	615043
<i>C1QA</i>	chr1	1p36.3-p34.1	C1q deficiency	613652
<i>C1QB</i>	chr1	1p36.3-p34.1	C1q deficiency	613652
<i>C1QC</i>	chr1	1p36.3-p34.1	C1q deficiency	613652
<i>C2</i>	chr6	6p21.3	C2 deficiency	217000
<i>C2CD3</i>	chr11	11q13.4	Orofaciodigital syndrome XIV	615948
<i>C3</i>	chr19	19p13.3-p13.2	Hemolytic uremic syndrome atypical susceptibility to 5	612925
<i>C3</i>	chr19	19p13.3-p13.2	C3 deficiency	613779
<i>C4A</i>	chr6	6p21.3	C4a deficiency	614380
<i>C8A</i>	chr1	1p32	C8 deficiency type I	613790
<i>C8B</i>	chr1	1p32	C8 deficiency type II	613789
<i>C8orf37</i>	chr8	8q22.1	Retinitis pigmentosa 64	614500
<i>C8orf37</i>	chr8	8q22.1	Bardet-Biedl syndrome 21	617406
<i>C8orf37</i>	chr8	8q22.1	Cone-rod dystrophy 16	614500
<i>CA12</i>	chr15	15q22	Hyperchlorhidrosis isolated	143860
<i>CA2</i>	chr8	8q22	Osteopetrosis autosomal recessive 3 with renal tubular acidosis	259730
<i>CA5A</i>	chr16	16q24.3	Hyperammonemia due to carbonic anhydrase VA deficiency	615751
<i>CA8</i>	chr8	8q11-q12	Cerebellar ataxia and mental retardation with or without quadrupedal locomotion 3	613227
<i>CABP2</i>	chr11	11q13.1	Deafness autosomal recessive 93	614899
<i>CABP4</i>	chr11	11q13.1	Cone-rod synaptic disorder congenital nonprogressive	610427
<i>CACNA1B</i>	chr9	9q34	Neurodevelopmental disorder with seizures and nonepileptic hyperkinetic movements	618497
<i>CACNA1D</i>	chr3	3p21.1	Sinoatrial node dysfunction and deafness	614896
<i>CACNA1F</i>	chrX	Xp11.23	Cone-rod dystrophy X-linked 3	300476

<i>CACNA1F</i>	chrX	Xp11.23	Night blindness congenital stationary (incomplete) 2A X-linked	300071
<i>CACNA1F</i>	chrX	Xp11.23	Aland Island eye disease	300600
<i>CACNA2D2</i>	chr3	3p21.3	Cerebellar atrophy with seizures and variable developmental delay	618501
<i>CACNA2D4</i>	chr12	12p13.3	Retinal cone dystrophy 4	610478
<i>CALCLL</i>	chr2	2q31-q32	Lymphatic malformation 8	618773
<i>CANT1</i>	chr17	17q25.3	Desbuquois dysplasia 1	251450
<i>CANT1</i>	chr17	17q25.3	Epiphyseal dysplasia multiple 7	617719
<i>CAPN1</i>	chr11	11q13	Spastic paraplegia 76 autosomal recessive	616907
<i>CAPN3</i>	chr15	15q15.1-q21.1	Muscular dystrophy limb-girdle autosomal recessive 1	253600
<i>CARD11</i>	chr7	7p22	Immunodeficiency 11A	615206
<i>CARD9</i>	chr9	9q34.3	Candidiasis familial 2 autosomal recessive	212050
<i>CARS2</i>	chr13	13q34	Combined oxidative phosphorylation deficiency 27	616672
<i>CARTPT</i>	chr5	5q13.2	Obesity susceptibility to	601665
<i>CASP8</i>	chr2	2q33	Autoimmune lymphoproliferative syndrome type IIB	607271
<i>CASQ2</i>	chr1	1p13.3-p11	Ventricular tachycardia catecholaminergic polymorphic 2	611938
<i>CASR</i>	chr3	3q21.1	Hyperparathyroidism neonatal	239200
<i>CAST</i>	chr5	5q15-q21	Peeling skin with leukonychia acral punctate keratoses cheilitis and knuckle pads	616295
<i>CATSPER1</i>	chr11	11q13.1	Spermatogenic failure 7	612997
<i>CAV1</i>	chr7	7q31.1	Lipodystrophy congenital generalized type 3	612526
<i>CAVIN1</i>	chr17	17q21	Lipodystrophy congenital generalized type 4	613327
<i>CBS</i>	chr21	21q22.3	Homocystinuria B6-responsive and nonresponsive types	236200
<i>CBS</i>	chr21	21q22.3	Thrombosis hyperhomocysteinemic	236200
<i>CBX2</i>	chr17	17q25	46XY sex reversal 5	613080
<i>CC2D1A</i>	chr19	19p13.12	Mental retardation autosomal recessive 3	608443
<i>CC2D2A</i>	chr4	4p15.3	Meckel syndrome 6	612284
<i>CC2D2A</i>	chr4	4p15.3	Joubert syndrome 9	612285
<i>CC2D2A</i>	chr4	4p15.3	COACH syndrome	216360
<i>CCBE1</i>	chr18	18q21.32	Hennekam lymphangiectasia-lymphedema syndrome 1	235510
<i>CCDC103</i>	chr17	17q21.31	Ciliary dyskinesia primary 17	614679
<i>CCDC114</i>	chr19	19q13.3	Ciliary dyskinesia primary 20	615067
<i>CCDC151</i>	chr19	19p13.2	Ciliary dyskinesia primary 30	616037
<i>CCDC22</i>	chrX	Xp11.23	Ritscher-Schinzel syndrome 2	300963
<i>CCDC28B</i>	chr1	1p35.1	Bardet-Biedl syndrome 1 modifier of	209900
<i>CCDC65</i>	chr12	12q13.12	Ciliary dyskinesia primary 27	615504
<i>CCDC8</i>	chr19	19q13.2-q13.32	3-M syndrome 3	614205
<i>CCDC88C</i>	chr14	14q32.11	Hydrocephalus congenital 1	236600
<i>CCNO</i>	chr5	5q11.2	Ciliary dyskinesia primary 29	615872
<i>CCT5</i>	chr5	5p15.2	Neuropathy hereditary sensory with spastic paraplegia	256840
<i>CD19</i>	chr16	16p11.2	Immunodeficiency common variable 3	613493
<i>CD247</i>	chr1	1q22-q23	Immunodeficiency 25	610163

<i>CD27</i>	chr12	12p13	Lymphoproliferative syndrome 2	615122
<i>CD36</i>	chr7	7q21.11	Platelet glycoprotein IV deficiency	608404
<i>CD3D</i>	chr11	11q23	Immunodeficiency 19	615617
<i>CD3E</i>	chr11	11q23	Immunodeficiency 18 SCID variant	615615
<i>CD3E</i>	chr11	11q23	Immunodeficiency 18	615615
<i>CD3G</i>	chr11	11q23	Immunodeficiency 17 CD3 gamma deficient	615607
<i>CD40</i>	chr20	20q12-q13.2	Immunodeficiency with hyper-IgM type 3	606843
<i>CD40LG</i>	chrX	Xq26	Immunodeficiency X-linked with hyper-IgM	308230
<i>CD46</i>	chr1	1q32	Hemolytic uremic syndrome atypical susceptibility to 2	612922
<i>CD55</i>	chr1	1q32	Blood group Cromer	613793
<i>CD55</i>	chr1	1q32	Complement hyperactivation angiopathic thrombosis and protein-losing enteropathy	226300
<i>CD59</i>	chr11	11p13	Hemolytic anemia CD59-mediated with or without immune-mediated polyneuropathy	612300
<i>CD79A</i>	chr19	19q13.2	Agammaglobulinemia 3	613501
<i>CD79B</i>	chr17	17q23	Agammaglobulinemia 6	612692
<i>CD81</i>	chr11	11p	Immunodeficiency common variable 6	613496
<i>CD8A</i>	chr2	2p12	CD8 deficiency familial	608957
<i>CDAN1</i>	chr15	15q15	Dyserythropoietic anemia congenital type Ia	224120
<i>CDC6</i>	chr17	17q21.2	Meier-Gorlin syndrome 5	613805
<i>CDH23</i>	chr10	10q21-q22	Pituitary adenoma 5 multiple types	617540
<i>CDH23</i>	chr10	10q21-q22	Deafness autosomal recessive 12	601386
<i>CDH23</i>	chr10	10q21-q22	Usher syndrome type 1D/F digenic	601067
<i>CDH23</i>	chr10	10q21-q22	Usher syndrome type 1D	601067
<i>CDH3</i>	chr16	16q22.1	Ectodermal dysplasia ectrodactyly and macular dystrophy	225280
<i>CDH3</i>	chr16	16q22.1	Hypotrichosis congenital with juvenile macular dystrophy	601553
<i>CDHR1</i>	chr10	10q23.1	Cone-rod dystrophy 15	613660
<i>CDHR1</i>	chr10	10q23.1	Retinitis pigmentosa 65	613660
<i>CDK5</i>	chr7	7q36	Lissencephaly 7 with cerebellar hypoplasia	616342
<i>CDK5RAP2</i>	chr9	9q33.3	Microcephaly 3 primary autosomal recessive	604804
<i>CDK6</i>	chr7	7q21-q22	Microcephaly 12 primary autosomal recessive	616080
<i>CDSN</i>	chr6	6p21.3	Peeling skin syndrome 1	270300
<i>CDT1</i>	chr16	16q24.3	Meier-Gorlin syndrome 4	613804
<i>CEACAM16</i>	chr19	19q13.31	Deafness autosomal recessive 113	618410
<i>CEBPE</i>	chr14	14q11.2	Specific granule deficiency	245480
<i>CENPE</i>	chr4	4q24-q25	Microcephaly 13 primary autosomal recessive	616051
<i>CENPJ</i>	chr13	13q12.2	Microcephaly 6 primary autosomal recessive	608393
<i>CENPJ</i>	chr13	13q12.2	Seckel syndrome 4	613676
<i>CEP120</i>	chr5	5q23.2	Joubert syndrome 31	617761
<i>CEP120</i>	chr5	5q23.2	Short-rib thoracic dysplasia 13 with or without polydactyly	616300
<i>CEP135</i>	chr4	4q12	Microcephaly 8 primary autosomal recessive	614673
<i>CEP152</i>	chr15	15q21.1	Microcephaly 9 primary autosomal recessive	614852
<i>CEP152</i>	chr15	15q21.1	Seckel syndrome 5	613823
<i>CEP164</i>	chr11	11q23.3	Nephronophthisis 15	614845

<i>CEP19</i>	chr3	3q29	Morbid obesity and spermatogenic failure	615703
<i>CEP250</i>	chr20	20q11.2	Cone-rod dystrophy and hearing loss 2	618358
<i>CEP290</i>	chr12	12q21.3	Bardet-Biedl syndrome 14	615991
<i>CEP290</i>	chr12	12q21.3	Senior-Loken syndrome 6	610189
<i>CEP290</i>	chr12	12q21.3	Meckel syndrome 4	611134
<i>CEP290</i>	chr12	12q21.3	Joubert syndrome 5	610188
<i>CEP41</i>	chr7	7q32	Joubert syndrome 15	614464
<i>CEP57</i>	chr11	11q21	Mosaic variegated aneuploidy syndrome 2	614114
<i>CEP63</i>	chr3	3q22.2	Seckel syndrome 6	614728
<i>CEP83</i>	chr12	12q22	Nephronophthisis 18	615862
<i>CERS3</i>	chr15	15q26.3	Ichthyosis congenital autosomal recessive 9	615023
<i>CFAP53</i>	chr18	18q21.1	Heterotaxy visceral 6 autosomal recessive	614779
<i>CFB</i>	chr6	6p21.3	Complement factor B deficiency	615561
<i>CFD</i>	chr19	19p13.3	Complement factor D deficiency	613912
<i>CFH</i>	chr1	1q32	Complement factor H deficiency	609814
<i>CFH</i>	chr1	1q32	Hemolytic uremic syndrome atypical susceptibility to 1	235400
<i>CFHR1</i>	chr1	1q31-q32.1	Hemolytic uremic syndrome atypical susceptibility to	235400
<i>CFHR3</i>	chr1	1q31-q32.1	Hemolytic uremic syndrome atypical susceptibility to	235400
<i>CFI</i>	chr4	4q25	Complement factor I deficiency	610984
<i>CFL2</i>	chr14	14q12	Nemaline myopathy 7 autosomal recessive	610687
<i>CFP</i>	chrX	Xp11.4-p11.23	Properdin deficiency X-linked	312060
<i>CFTR</i>	chr7	7q31.2	Cystic fibrosis	219700
<i>CFTR</i>	chr7	7q31.2	Congenital bilateral absence of vas deferens	277180
<i>CHAT</i>	chr10	10q11.2	Myasthenic syndrome congenital 6 presynaptic	254210
<i>CHIT1</i>	chr1	1q31-q32	Chitotriosidase deficiency	614122
<i>CHKB</i>	chr22	22q13	Muscular dystrophy congenital megaconial type	602541
<i>CHMP1A</i>	chr16	16q24.3	Pontocerebellar hypoplasia type 8	614961
<i>CHRD1</i>	chrX	Xq22.1-q23	Megalocornea 1 X-linked	309300
<i>CHRM3</i>	chr1	1q43	Prune belly syndrome	100100
<i>CHRNA1</i>	chr2	2q24-q32	Myasthenic syndrome congenital 1B fast-channel	608930
<i>CHRNA1</i>	chr2	2q24-q32	Multiple pterygium syndrome lethal type	253290
<i>CHRNA3</i>	chr15	15q25.1	Bladder dysfunction autonomic with impaired pupillary reflex and secondary CAKUT	191800
<i>CHRNB1</i>	chr17	17p12-p11	Myasthenic syndrome congenital 2C associated with acetylcholine receptor deficiency	616314
<i>CHRND</i>	chr2	2q33-q34	Myasthenic syndrome congenital 3C associated with acetylcholine receptor deficiency	616323
<i>CHRND</i>	chr2	2q33-q34	Myasthenic syndrome congenital 3B fast-channel	616322
<i>CHRND</i>	chr2	2q33-q34	Multiple pterygium syndrome lethal type	253290
<i>CHRNE</i>	chr17	17p13-p12	Myasthenic syndrome congenital 4A slow-channel	605809
<i>CHRNE</i>	chr17	17p13-p12	Myasthenic syndrome congenital 4C associated with acetylcholine receptor deficiency	608931
<i>CHRNE</i>	chr17	17p13-p12	Myasthenic syndrome congenital 4B fast-channel	616324
<i>CHRNG</i>	chr2	2q33-q34	Escobar syndrome	265000
<i>CHRNG</i>	chr2	2q33-q34	Multiple pterygium syndrome lethal type	253290

<i>CHST14</i>	chr15	15q14	Ehlers-Danlos syndrome musculocontractural type 1	601776
<i>CHST3</i>	chr10	10q22.1	Spondyloepiphyseal dysplasia with congenital joint dislocations	143095
<i>CHST6</i>	chr16	16q22	Macular corneal dystrophy	217800
<i>CHST8</i>	chr19	19q13.1	Peeling skin syndrome 3	616265
<i>CHSY1</i>	chr15	15q26.3	Temtamy preaxial brachydactyly syndrome	605282
<i>CIB2</i>	chr15	15q24	Deafness autosomal recessive 48	609439
<i>CIB2</i>	chr15	15q24	Usher syndrome type IJ	614869
<i>CIDEC</i>	chr3	3p25	Lipodystrophy familial partial type 5	615238
<i>CIITA</i>	chr16	16p13	Bare lymphocyte syndrome type II complementation group A	209920
<i>CISD2</i>	chr4	4q22-q24	Wolfram syndrome 2	604928
<i>CKAP2L</i>	chr2	2q13	Filippi syndrome	272440
<i>CLCF1</i>	chr11	11q13.3	Cold-induced sweating syndrome 2	610313
<i>CLCN1</i>	chr7	7q35	Myotonia congenita recessive	255700
<i>CLCN2</i>	chr3	3q26	Leukoencephalopathy with ataxia	615651
<i>CLCN5</i>	chrX	Xp11.22	Proteinuria low molecular weight with hypercalciuric nephrocalcinosis	308990
<i>CLCN5</i>	chrX	Xp11.22	Dent disease	300009
<i>CLCN5</i>	chrX	Xp11.22	Hypophosphatemic rickets	300554
<i>CLCN5</i>	chrX	Xp11.22	Nephrolithiasis type I	310468
<i>CLCN7</i>	chr16	16p13	Osteopetrosis autosomal recessive 4	611490
<i>CLCNKA</i>	chr1	1p36	Bartter syndrome type 4b digenic	613090
<i>CLCNKB</i>	chr1	1p36	Bartter syndrome type 3	607364
<i>CLCNKB</i>	chr1	1p36	Bartter syndrome type 4b digenic	613090
<i>CLDN1</i>	chr3	3q28-q29	Ichthyosis leukocyte vacuoles alopecia and sclerosing cholangitis	607626
<i>CLDN14</i>	chr21	21q22.3	Deafness autosomal recessive 29	614035
<i>CLDN16</i>	chr3	3q27	Hypomagnesemia 3 renal	248250
<i>CLDN19</i>	chr1	1p34.2	Hypomagnesemia 5 renal with ocular involvement	248190
<i>CLEC7A</i>	chr12	12p13.2-p12.3	Candidiasis familial 4 autosomal recessive	613108
<i>CLIC2</i>	chrX	Xq28	Mental retardation X-linked syndromic 32	300886
<i>CLIC5</i>	chr6	6p21.1-p12.1	Deafness autosomal recessive 103	616042
<i>CLMP</i>	chr11	11q24.1	Congenital short bowel syndrome	615237
<i>CLN3</i>	chr16	16p12.1	Ceroid lipofuscinosis neuronal 3	204200
<i>CLN5</i>	chr13	13q22.3	Ceroid lipofuscinosis neuronal 5	256731
<i>CLN6</i>	chr15	15q21-q23	Ceroid lipofuscinosis neuronal Kufs type adult onset	204300
<i>CLN6</i>	chr15	15q21-q23	Ceroid lipofuscinosis neuronal 6	601780
<i>CLN8</i>	chr8	8p23	Ceroid lipofuscinosis neuronal 8	600143
<i>CLN8</i>	chr8	8p23	Ceroid lipofuscinosis neuronal 8 Northern epilepsy variant	610003
<i>CLP1</i>	chr11	11q12.1	Pontocerebellar hypoplasia type 10	615803
<i>CLPB</i>	chr11	11q13.4	3-methylglutaconic aciduria type VII with cataracts neurologic involvement and neutropenia	616271
<i>CLPP</i>	chr19	19p13.3	Perrault syndrome 3	614129
<i>CLRN1</i>	chr3	3q21-q25	Usher syndrome type 3A	276902
<i>CNGA3</i>	chr2	2q11	Achromatopsia 2	216900

<i>CNGB1</i>	chr16	16q21	Retinitis pigmentosa 45	613767
<i>CNGB3</i>	chr8	8q21-q22	Achromatopsia 3	262300
<i>CNNM2</i>	chr10	10q24.33	Hypomagnesemia seizures and mental retardation	616418
<i>CNNM4</i>	chr2	2q11.2	Jalili syndrome	217080
<i>CNPY3</i>	chr6	6pter-p12	Epileptic encephalopathy early infantile 60	617929
<i>CNTN1</i>	chr12	12q11-q12	Myopathy congenital Compton-North	612540
<i>CNTN2</i>	chr1	1q32.1	Epilepsy myoclonic familial adult 5	615400
<i>CNTNAP1</i>	chr17	17q21	Lethal congenital contracture syndrome 7	616286
<i>CNTNAP1</i>	chr17	17q21	Hypomyelinating neuropathy congenital 3	618186
<i>CNTNAP2</i>	chr7	7q35-q36	Pitt-Hopkins like syndrome 1	610042
<i>CNTNAP2</i>	chr7	7q35-q36	Cortical dysplasia-focal epilepsy syndrome	610042
<i>COA5</i>	chr2	2q11.2	Cardioencephalomyopathy fatal infantile due to cytochrome c oxidase deficiency 3	616500
<i>COA6</i>	chr1	1q42.2	Cardioencephalomyopathy fatal infantile due to cytochrome c oxidase deficiency 4	616501
<i>COASY</i>	chr17	17q12-q21	Neurodegeneration with brain iron accumulation 6	615643
<i>COASY</i>	chr17	17q12-q21	Pontocerebellar hypoplasia type 12	618266
<i>COCH</i>	chr14	14q12-q13	Deafness autosomal recessive 110	618094
<i>COG1</i>	chr17	17q25.1	Congenital disorder of glycosylation type IIg	611209
<i>COG2</i>	chr1	1q42.2	Congenital disorder of glycosylation type IIq	617395
<i>COG4</i>	chr16	16q22.1	Congenital disorder of glycosylation type IIj	613489
<i>COG5</i>	chr7	7q31	Congenital disorder of glycosylation type Ili	613612
<i>COG6</i>	chr13	13q13.3	Congenital disorder of glycosylation type III	614576
<i>COG6</i>	chr13	13q13.3	Shaheen syndrome	615328
<i>COG7</i>	chr16	16p	Congenital disorder of glycosylation type Iie	608779
<i>COL11A1</i>	chr1	1p21	Fibrochondrogenesis 1	228520
<i>COL11A2</i>	chr6	6p21.3	Otospondylomegapiphysal dysplasia autosomal recessive	215150
<i>COL11A2</i>	chr6	6p21.3	Fibrochondrogenesis 2	614524
<i>COL11A2</i>	chr6	6p21.3	Deafness autosomal recessive 53	609706
<i>COL17A1</i>	chr10	10q24.3	Epidermolysis bullosa junctional non-Herlitz type	226650
<i>COL17A1</i>	chr10	10q24.3	Epidermolysis bullosa junctional localisata variant	226650
<i>COL18A1</i>	chr21	21q22.3	Knobloch syndrome type 1	267750
<i>COL1A2</i>	chr7	7q22.1	Ehlers-Danlos syndrome cardiac valvular type	225320
<i>COL25A1</i>	chr4	4q25	Fibrosis of extraocular muscles congenital 5	616219
<i>COL27A1</i>	chr9	9q32	Steel syndrome	615155
<i>COL3A1</i>	chr2	2q32.2	Ehlers-Danlos syndrome vascular type	130050
<i>COL3A1</i>	chr2	2q32.2	Polymicrogyria with or without vascular-type EDS	618343
<i>COL4A3</i>	chr2	2q36-q37	Alport syndrome 2 autosomal recessive	203780
<i>COL4A4</i>	chr2	2q36-q37	Alport syndrome 2 autosomal recessive	203780
<i>COL4A6</i>	chrX	Xq22.3	Deafness X-linked 6	300914
<i>COL6A1</i>	chr21	21q22.3	Ullrich congenital muscular dystrophy 1	254090
<i>COL6A1</i>	chr21	21q22.3	Bethlem myopathy 1	158810
<i>COL6A2</i>	chr21	21q22.3	Bethlem myopathy 1	158810
<i>COL6A2</i>	chr21	21q22.3	Ullrich congenital muscular dystrophy 1	254090
<i>COL6A2</i>	chr21	21q22.3	Myosclerosis congenital	255600

COL6A3	chr2	2q37	Bethlem myopathy 1	158810
COL6A3	chr2	2q37	Dystonia 27	616411
COL6A3	chr2	2q37	Ullrich congenital muscular dystrophy 1	254090
COL7A1	chr3	3p21.3	EBD inversa	226600
COL7A1	chr3	3p21.3	Epidermolysis bullosa dystrophica AR	226600
COL7A1	chr3	3p21.3	Transient bullous of the newborn	131705
COL7A1	chr3	3p21.3	Epidermolysis bullosa pruriginosa	604129
COL7A1	chr3	3p21.3	Epidermolysis bullosa pretibial	131850
COL9A2	chr1	1p34.2	Stickler syndrome type V	614284
COLEC11	chr2	2p25.3	3MC syndrome 2	265050
COLQ	chr3	3p25	Myasthenic syndrome congenital 5	603034
COQ2	chr4	4q21-q22	Multiple system atrophy susceptibility to	146500
COQ2	chr4	4q21-q22	Coenzyme Q10 deficiency primary 1	607426
COQ4	chr9	9q34.13	Coenzyme Q10 deficiency primary 7	616276
COQ6	chr14	14q24.3	Coenzyme Q10 deficiency primary 6	614650
COQ8A	chr1	1q42.2	Coenzyme Q10 deficiency primary 4	612016
COQ8B	chr19	19q13.1	Nephrotic syndrome type 9	615573
COQ9	chr16	16q13	Coenzyme Q10 deficiency primary 5	614654
CORO1A	chr16	16p11.2	Immunodeficiency 8	615401
COX10	chr17	17p12-p11.2	Mitochondrial complex IV deficiency	220110
COX10	chr17	17p12-p11.2	Leigh syndrome due to mitochondrial COX4 deficiency	256000
COX14	chr12	12q13.12	Mitochondrial complex IV deficiency	220110
COX15	chr10	10q24	Cardioencephalomyopathy fatal infantile due to cytochrome c oxidase deficiency 2	615119
COX15	chr10	10q24	Leigh syndrome due to cytochrome c oxidase deficiency	256000
COX20	chr1	1q44	Mitochondrial complex IV deficiency	220110
COX4I2	chr20	20q11.21	Exocrine pancreatic insufficiency dyserythropoietic anemia and calvarial hyperostosis	612714
COX6A1	chr12	12q24.2	Charcot-Marie-Tooth disease recessive intermediate D	616039
COX6B1	chr19	19q13.1	Mitochondrial complex IV deficiency	220110
CP	chr3	3q23-q24	Hypoceruloplasminemia hereditary	604290
CP	chr3	3q23-q24	Hemosiderosis systemic due to aceruloplasminemia	604290
CP	chr3	3q23-q24	Cerebellar ataxia	604290
CPA6	chr8	8q13	Febrile seizures familial 11	614418
CPA6	chr8	8q13	Epilepsy familial temporal lobe 5	614417
CPN1	chr10	10q24.2	Carboxypeptidase N deficiency	212070
CPOX	chr3	3q12	Harderoporphyria	618892
CPOX	chr3	3q12	Coproporphyria	121300
CPS1	chr2	2q35	Carbamoylphosphate synthetase I deficiency	237300
CPT1A	chr11	11q13	CPT deficiency hepatic type IA	255120
CPT2	chr1	1p32	CPT II deficiency myopathic stress-induced	255110
CPT2	chr1	1p32	CPT II deficiency infantile	600649
CPT2	chr1	1p32	CPT II deficiency lethal neonatal	608836
CPT2	chr1	1p32	Encephalopathy acute infection-induced 4 susceptibility to	614212

<i>CR2</i>	chr1	1q32	Immunodeficiency common variable 7	614699
<i>CRADD</i>	chr12	12q21.33-q23.1	Mental retardation autosomal recessive 34 with variant lissencephaly	614499
<i>CRAT</i>	chr9	9q34.1	Neurodegeneration with brain iron accumulation 8	617917
<i>CRB1</i>	chr1	1q31-q32.1	Retinitis pigmentosa-12	600105
<i>CRB1</i>	chr1	1q31-q32.1	Leber congenital amaurosis 8	613835
<i>CRB2</i>	chr9	9q33.3	Ventriculomegaly with cystic kidney disease	219730
<i>CRB2</i>	chr9	9q33.3	Focal segmental glomerulosclerosis 9	616220
<i>CRBN</i>	chr3	3p26.2	Mental retardation autosomal recessive 2	607417
<i>CREB3L1</i>	chr11	11p11.2	Osteogenesis imperfecta type XVI	616229
<i>CRPT</i>	chr2	2p21	Short stature with microcephaly and distinctive facies	615789
<i>CRLF1</i>	chr19	19p12	Cold-induced sweating syndrome 1	272430
<i>CRTAP</i>	chr3	3p22	Osteogenesis imperfecta type VII	610682
<i>CRYAA</i>	chr21	21q22.3	Cataract 9 multiple types	604219
<i>CRYAB</i>	chr11	11q22.3-q23.1	Myopathy myofibrillar 2	608810
<i>CRYAB</i>	chr11	11q22.3-q23.1	Cardiomyopathy dilated 11I	615184
<i>CRYAB</i>	chr11	11q22.3-q23.1	Myopathy myofibrillar fatal infantile hypertonic alpha-B crystallin-related	613869
<i>CRYAB</i>	chr11	11q22.3-q23.1	Cataract 16 multiple types	613763
<i>CRYBB1</i>	chr22	22q11.2-q12.1	Cataract 17 multiple types	611544
<i>CRYBB3</i>	chr22	22q11.2-q12.2	Cataract 22	609741
<i>CSF1R</i>	chr5	5q32	Brain abnormalities neurodegeneration and dysosteosclerosis	618476
<i>CSF2RB</i>	chr22	22q12.2-q13.1	Surfactant metabolism dysfunction pulmonary 5	614370
<i>CSF3R</i>	chr1	1p35-p34.3	Neutropenia severe congenital 7 autosomal recessive	617014
<i>CSGALNAC T1</i>	chr8	8p21.3	Skeletal dysplasia mild with joint laxity and advanced bone age	618870
<i>CSPP1</i>	chr8	8q13.2	Joubert syndrome 21	615636
<i>CST6</i>	chr11	11q13	Ectodermal dysplasia 15 hypohidrotic/hair type	618535
<i>CSTA</i>	chr3	3q21	Peeling skin syndrome 4	607936
<i>CSTB</i>	chr21	21q22.3	Epilepsy progressive myoclonic 1A (Unverricht and Lundborg)	254800
<i>CTC1</i>	chr17	17p13.1	Cerebroretinal microangiopathy with calcifications and cysts	612199
<i>CTDP1</i>	chr18	18q23	Congenital cataracts facial dysmorphism and neuropathy	604168
<i>CTH</i>	chr1	1p31.1	Cystathioninuria	219500
<i>CTNNA2</i>	chr2	2p12-p11.1	Cortical dysplasia complex with other brain malformations 9	618174
<i>CTNS</i>	chr17	17p13	Cystinosis nephropathic	219800
<i>CTNS</i>	chr17	17p13	Cystinosis ocular nonnephropathic	219750
<i>CTNS</i>	chr17	17p13	Cystinosis late-onset juvenile or adolescent nephropathic	219900
<i>CTNS</i>	chr17	17p13	Cystinosis atypical nephropathic	219800
<i>CTPS1</i>	chr1	1p34.1	Immunodeficiency 24	615897
<i>CTSA</i>	chr20	20q13.1	Galactosialidosis	256540
<i>CTSC</i>	chr11	11q14.1-q14.3	Periodontitis 1 juvenile	170650

CTSC	chr11	11q14.1-q14.3	Papillon-Lefevre syndrome	245000
CTSC	chr11	11q14.1-q14.3	Haim-Munk syndrome	245010
CTSD	chr11	11p15.5	Ceroid lipofuscinosis neuronal 10	610127
CTSF	chr11	11q13.1	Ceroid lipofuscinosis neuronal 13 Kufs type	615362
CTSK	chr1	1q21	Pycnodysostosis	265800
CUBN	chr10	10p12.1	Proteinuria chronic benign	618884
CUBN	chr10	10p12.1	Imerslund-Grasbeck syndrome 1	261100
CUL4B	chrX	Xq23	Mental retardation X-linked syndromic 15 (Cabezas type)	300354
CUL7	chr6	6p21.1	3-M syndrome 1	273750
CWF19L1	chr10	10q24.31	Spinocerebellar ataxia autosomal recessive 17	616127
CYB5A	chr18	18q23	Methemoglobinemia and ambiguous genitalia	250790
CYB5R3	chr22	22q13.31-qter	Methemoglobinemia type I	250800
CYB5R3	chr22	22q13.31-qter	Methemoglobinemia type II	250800
CYBA	chr16	16q24	Chronic granulomatous disease 4 autosomal recessive	233690
CYBB	chrX	Xp21.1	Immunodeficiency 34 mycobacteriosis X-linked	300645
CYBB	chrX	Xp21.1	Chronic granulomatous disease X-linked	306400
CYC1	chr8	8q24.3	Mitochondrial complex III deficiency nuclear type 6	615453
CYP11B1	chr8	8q21	Adrenal hyperplasia congenital due to 11-beta-hydroxylase deficiency	202010
CYP11B2	chr8	8q21	Hypoaldosteronism congenital due to CMO II deficiency	610600
CYP11B2	chr8	8q21	Hypoaldosteronism congenital due to CMO I deficiency	203400
CYP17A1	chr10	10q24.3	17-alpha-hydroxylase/1720-lyase deficiency	202110
CYP17A1	chr10	10q24.3	1720-lyase deficiency isolated	202110
CYP1B1	chr2	2p22-p21	Glaucoma 3A primary open angle congenital juvenile or adult onset	231300
CYP21A2	chr6	6p21.3	Adrenal hyperplasia congenital due to 21-hydroxylase deficiency	201910
CYP21A2	chr6	6p21.3	Hyperandrogenism nonclassic type due to 21-hydroxylase deficiency	201910
CYP24A1	chr20	20q13.2-q13.3	Hypercalcemia infantile 1	143880
CYP26C1	chr10	10q23.3	Focal facial dermal dysplasia 4	614974
CYP27A1	chr2	2q33-qter	Cerebrotendinous xanthomatosis	213700
CYP27B1	chr12	12q13.1-q13.3	Vitamin D-dependent rickets type I	264700
CYP2C19	chr10	10q24.1-q24.3	Clopidogrel impaired responsiveness to	609535
CYP2C19	chr10	10q24.1-q24.3	Mephenytoin poor metabolizer	609535
CYP2C19	chr10	10q24.1-q24.3	Proguanil poor metabolizer	609535
CYP2C19	chr10	10q24.1-q24.3	Omeprazole poor metabolizer	609535
CYP2D6	chr22	22q13.1	Debrisoquine sensitivity	608902
CYP2D6	chr22	22q13.1	Codeine sensitivity	608902
CYP2R1	chr11	11p15.2	Rickets due to defect in vitamin D 25-hydroxylation	600081
CYP2U1	chr4	4q25	Spastic paraplegia 56 autosomal recessive	615030
CYP4F22	chr19	19p13.12	Ichthyosis congenital autosomal recessive 5	604777
CYP4V2	chr4	4q35.1	Bietti crystalline corneoretinal dystrophy	210370
CYP7B1	chr8	8q21.3	Spastic paraplegia 5A autosomal recessive	270800

<i>CYP7B1</i>	chr8	8q21.3	Bile acid synthesis defect congenital 3	613812
<i>D2HGDH</i>	chr2	2q37.3	D-2-hydroxyglutaric aciduria	600721
<i>DAG1</i>	chr3	3p21	Muscular dystrophy-dystroglycanopathy (limb-girdle) type C 9	613818
<i>DAG1</i>	chr3	3p21	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies) type A 9	616538
<i>DARS2</i>	chr1	1q25.1	Leukoencephalopathy with brain stem and spinal cord involvement and lactate elevation	611105
<i>DBH</i>	chr9	9q34	Orthostatic hypotension 1 due to DBH deficiency	223360
<i>DBT</i>	chr1	1p31	Maple syrup urine disease type II	248600
<i>DCAF17</i>	chr2	2q22.3-q35	Woodhouse-Sakati syndrome	241080
<i>DCC</i>	chr18	18q21.3	Gaze palsy familial horizontal with progressive scoliosis 2	617542
<i>DCDC2</i>	chr6	6p22.1	Sclerosing cholangitis neonatal	617394
<i>DCDC2</i>	chr6	6p22.1	Nephronophthisis 19	616217
<i>DCDC2</i>	chr6	6p22.1	Deafness autosomal recessive 66	610212
<i>DCHS1</i>	chr11	11p15.4	Van Maldergem syndrome 1	601390
<i>DCLRE1C</i>	chr10	10p	Omenn syndrome	603554
<i>DCLRE1C</i>	chr10	10p	Severe combined immunodeficiency Athabaskan type	602450
<i>DCPS</i>	chr11	11q24.2	Al-Raqad syndrome	616459
<i>DCTN1</i>	chr2	2p13	Amyotrophic lateral sclerosis susceptibility to	105400
<i>DCXR</i>	chr17	17q25.3	Pentosuria	260800
<i>DDB2</i>	chr11	11p12-p11	Xeroderma pigmentosum group E DDB-negative subtype	278740
<i>DDC</i>	chr7	7p11	Aromatic L-amino acid decarboxylase deficiency	608643
<i>DDHD1</i>	chr14	14q22.1	Spastic paraplegia 28 autosomal recessive	609340
<i>DDHD2</i>	chr8	8p11.23	Spastic paraplegia 54 autosomal recessive	615033
<i>DDOST</i>	chr1	1p36.1	Congenital disorder of glycosylation type I _r	614507
<i>DDR2</i>	chr1	1q12-qter	Spondylometaphyseal dysplasia short limb-hand type	271665
<i>DDRKG1</i>	chr20	20p13	Spondyloepimetaphyseal dysplasia Shohat type	602557
<i>DDX11</i>	chr12	12p11	Warsaw breakage syndrome	613398
<i>DDX3X</i>	chrX	Xp11.3-p11.23	Intellectual developmental disorder X-linked syndrome Snijders Blok type	300958
<i>DDX59</i>	chr1	1q32.1	Orofaciodigital syndrome V	174300
<i>DEAF1</i>	chr11	11p15.5	Neurodevelopmental disorder with hypotonia impaired expressive language and with or without seizures	617171
<i>DENND5A</i>	chr11	11p15.4	Epileptic encephalopathy early infantile 49	617281
<i>DES</i>	chr2	2q35	Myopathy myofibrillar 1	601419
<i>DGAT1</i>	chr8	8q24.3	Diarrhea 7 protein-losing enteropathy type	615863
<i>DGKE</i>	chr17	17q22	Hemolytic uremic syndrome atypical susceptibility to 7	615008
<i>DGKE</i>	chr17	17q22	Nephrotic syndrome type 7	615008
<i>DGUOK</i>	chr2	2p13	Progressive external ophthalmoplegia with mitochondrial DNA deletions autosomal recessive 4	617070
<i>DGUOK</i>	chr2	2p13	Portal hypertension noncirrhotic	617068

<i>DGUOK</i>	chr2	2p13	Mitochondrial DNA depletion syndrome 3 (hepatocerebral type)	251880
<i>DHCR24</i>	chr1	1p33-p31.1	Desmosterolosis	602398
<i>DHCR7</i>	chr11	11q12-q13	Smith-Lemli-Opitz syndrome	270400
<i>DHDDS</i>	chr1	1p36.11	Retinitis pigmentosa 59	613861
<i>DHDDS</i>	chr1	1p36.11	Congenital disorder of glycosylation type 1bb	613861
<i>DHFR</i>	chr5	5q11.2-q13.2	Megaloblastic anemia due to dihydrofolate reductase deficiency	613839
<i>DHH</i>	chr12	12q13.1	46XY sex reversal 7	233420
<i>DHODH</i>	chr16	16q22	Miller syndrome	263750
<i>DHTKD1</i>	chr10	10p14	2-aminoadipic 2-oxoadipic aciduria	204750
<i>DHX37</i>	chr12	12q24.31	Neurodevelopmental disorder with brain anomalies and with or without vertebral or cardiac anomalies	618731
<i>DHX38</i>	chr16	16q21-q22	Retinitis pigmentosa 84	618220
<i>DIAPH1</i>	chr5	5q31	Seizures cortical blindness microcephaly syndrome	616632
<i>DIS3L2</i>	chr2	2q37.2	Perlman syndrome	267000
<i>DKC1</i>	chrX	Xq28	Dyskeratosis congenita X-linked	305000
<i>DLAT</i>	chr11	11q23.1	Pyruvate dehydrogenase E2 deficiency	245348
<i>DLD</i>	chr7	7q31-q32	Dihydrolipoamide dehydrogenase deficiency	246900
<i>DLG3</i>	chrX	Xq13.1	Mental retardation X-linked 90	300850
<i>DLL3</i>	chr19	19q13	Spondylocostal dysostosis 1 autosomal recessive	277300
<i>DLX5</i>	chr7	7q22	Split-hand/foot malformation 1 with sensorineural hearing loss	220600
<i>DMD</i>	chrX	Xp21.2	Cardiomyopathy dilated 3B	302045
<i>DMD</i>	chrX	Xp21.2	Becker muscular dystrophy	300376
<i>DMD</i>	chrX	Xp21.2	Duchenne muscular dystrophy	310200
<i>DMGDH</i>	chr5	5q12.2-q12.3	Dimethylglycine dehydrogenase deficiency	605850
<i>DMP1</i>	chr4	4q21	Hypophosphatemic rickets AR	241520
<i>DMXL2</i>	chr15	15q21.2	Polyendocrine-polyneuropathy syndrome	616113
<i>DMXL2</i>	chr15	15q21.2	Epileptic encephalopathy early infantile 81	618663
<i>DNA2</i>	chr10	10q21.3-q22.1	Seckel syndrome 8	615807
<i>DNAAF1</i>	chr16	16q24.1	Ciliary dyskinesia primary 13	613193
<i>DNAAF3</i>	chr19	19q13.4	Ciliary dyskinesia primary 2	606763
<i>DNAAF4</i>	chr15	15q21	Ciliary dyskinesia primary 25	615482
<i>DNAAF5</i>	chr7	7p22.3	Ciliary dyskinesia primary 18	614874
<i>DNAH1</i>	chr3	3p21.3	Ciliary dyskinesia primary 37	617577
<i>DNAH1</i>	chr3	3p21.3	Spermatogenic failure 18	617576
<i>DNAH11</i>	chr7	7p21	Ciliary dyskinesia primary 7 with or without situs inversus	611884
<i>DNAH9</i>	chr17	17p12	Ciliary dyskinesia primary 40	618300
<i>DNAI1</i>	chr9	9p13.3	Ciliary dyskinesia primary 1 with or without situs inversus	244400
<i>DNAJB2</i>	chr2	2q35	Spinal muscular atrophy distal autosomal recessive 5	614881
<i>DNAJC19</i>	chr3	3q26.3	3-methylglutaconic aciduria type V	610198
<i>DNAJC3</i>	chr13	13q32	Ataxia combined cerebellar and peripheral with hearing loss and diabetes mellitus	616192
<i>DNAJC6</i>	chr1	1p32.1-p31.3	Parkinson disease 19b early-onset	615528

<i>DNAJC6</i>	chr1	1p32.1-p31.3	Parkinson disease 19a juvenile-onset	615528
<i>DNAL1</i>	chr14	14q24.3	Ciliary dyskinesia primary 16	614017
<i>DNAL4</i>	chr22	22q13.1	Mirror movements 3	616059
<i>DNASE1L3</i>	chr3	3p21.1-p14.3	Systemic lupus erythematosus 16	614420
<i>DNM1L</i>	chr12	12p11.21	Encephalopathy lethal due to defective mitochondrial peroxisomal fission 1	614388
<i>DNM2</i>	chr19	19p13.2	Lethal congenital contracture syndrome 5	615368
<i>DNMT3B</i>	chr20	20q11.2	Immunodeficiency-centromeric instability-facial anomalies syndrome 1	242860
<i>DOCK3</i>	chr3	3p14	Neurodevelopmental disorder with impaired intellectual development hypotonia and ataxia	618292
<i>DOCK6</i>	chr19	19p13.2	Adams-Oliver syndrome 2	614219
<i>DOCK7</i>	chr1	1p31.3	Epileptic encephalopathy early infantile 23	615859
<i>DOCK8</i>	chr9	9p24	Hyper-IgE recurrent infection syndrome autosomal recessive	243700
<i>DOK7</i>	chr4	4p16.2	Fetal akinesia deformation sequence 3	618389
<i>DOK7</i>	chr4	4p16.2	Myasthenic syndrome congenital 10	254300
<i>DOLK</i>	chr9	9q34.11	Congenital disorder of glycosylation type Im	610768
<i>DPAGT1</i>	chr11	11q23.3	Congenital disorder of glycosylation type Ij	608093
<i>DPAGT1</i>	chr11	11q23.3	Myasthenic syndrome congenital 13 with tubular aggregates	614750
<i>DPH1</i>	chr17	17p13.3	Developmental delay with short stature dysmorphic facial features and sparse hair	616901
<i>DPM1</i>	chr20	20q13.13	Congenital disorder of glycosylation type le	608799
<i>DPM2</i>	chr9	9q34.11	Congenital disorder of glycosylation type lu	615042
<i>DPM3</i>	chr1	1q12-q21	Muscular dystrophy-dystroglycanopathy (limb-girdle) type C 15	612937
<i>DPY19L2</i>	chr12	12q14.2	Spermatogenic failure 9	613958
<i>DPYD</i>	chr1	1p22	Dihydropyrimidine dehydrogenase deficiency	274270
<i>DPYD</i>	chr1	1p22	5-fluorouracil toxicity	274270
<i>DPYS</i>	chr8	8q22	Dihydropyrimidinuria	222748
<i>DRC1</i>	chr2	2p23.3	Ciliary dyskinesia primary 21	615294
<i>DSC2</i>	chr18	18q12.1	Arrhythmogenic right ventricular dysplasia 11 with mild palmoplantar keratoderma and woolly hair	610476
<i>DSC2</i>	chr18	18q12.1	Arrhythmogenic right ventricular dysplasia 11	610476
<i>DSC3</i>	chr18	18q12.1	Hypotrichosis and recurrent skin vesicles	613102
<i>DSE</i>	chr6	6q22	Ehlers-Danlos syndrome musculocontractural type 2	615539
<i>DSG1</i>	chr18	18q12.1-q12.2	Erythroderma congenital with palmoplantar keratoderma hypotrichosis and hyper IgE	615508
<i>DSG4</i>	chr18	18q12	Hypotrichosis 6	607903
<i>DSP</i>	chr6	6p24	Epidermolysis bullosa lethal acantholytic	609638
<i>DSP</i>	chr6	6p24	Cardiomyopathy dilated with woolly hair and keratoderma	605676
<i>DSP</i>	chr6	6p24	Skin fragility-woolly hair syndrome	607655
<i>DST</i>	chr6	6p12-p11	Neuropathy hereditary sensory and autonomic type VI	614653
<i>DST</i>	chr6	6p12-p11	Epidermolysis bullosa simplex autosomal recessive 2	615425
<i>DSTYK</i>	chr1	1q32.1	Spastic paraplegia 23	270750

<i>DTNBP1</i>	chr6	6p22.3	Hermansky-Pudlak syndrome 7	614076
<i>DUOX2</i>	chr15	15q15.3	Thyroid dysmorphogenesis 6	607200
<i>DUOXA2</i>	chr15	15q15	Thyroid dysmorphogenesis 5	274900
<i>DYM</i>	chr18	18q12-q21.1	Smith-McCort dysplasia	607326
<i>DYM</i>	chr18	18q12-q21.1	Dyggve-Melchior-Clausen disease	223800
<i>DYNC2H1</i>	chr11	11q22.3	Short-rib thoracic dysplasia 3 with or without polydactyly	613091
<i>DYSF</i>	chr2	2p13.3-p13.1	Miyoshi muscular dystrophy 1	254130
<i>DYSF</i>	chr2	2p13.3-p13.1	Muscular dystrophy limb-girdle autosomal recessive 2	253601
<i>DYSF</i>	chr2	2p13.3-p13.1	Myopathy distal with anterior tibial onset	606768
<i>EARS2</i>	chr16	16p13.1-p11.2	Combined oxidative phosphorylation deficiency 12	614924
<i>EBP</i>	chrX	Xp11.23-p11.22	MEND syndrome	300960
<i>ECEL1</i>	chr2	2q36-q37	Arthrogyrosis distal type 5D	615065
<i>ECHS1</i>	chr10	10q26.2-q26.3	Mitochondrial short-chain enoyl-CoA hydratase 1 deficiency	616277
<i>ECM1</i>	chr1	1q21	Urbach-Wiethe disease	247100
<i>EDA</i>	chrX	Xq12-q13.1	Ectodermal dysplasia 1 hypohidrotic X-linked	305100
<i>EDAR</i>	chr2	2q11-q13	Ectodermal dysplasia 10B hypohidrotic/hair/tooth type autosomal recessive	224900
<i>EDARADD</i>	chr1	1q42.2-q43	Ectodermal dysplasia 11B hypohidrotic/hair/tooth type autosomal recessive	614941
<i>EDN1</i>	chr6	6p24-p23	Auriculocondylar syndrome 3	615706
<i>EDN3</i>	chr20	20q13.2-q13.3	Waardenburg syndrome type 4B	613265
<i>EDNRB</i>	chr13	13q22	Waardenburg syndrome type 4A	277580
<i>EDNRB</i>	chr13	13q22	ABCD syndrome	600501
<i>EFEMP2</i>	chr11	11q13	Cutis laxa autosomal recessive type IB	614437
<i>EGFR</i>	chr7	7p12.3-p12.1	Inflammatory skin and bowel disease neonatal 2	616069
<i>EGR2</i>	chr10	10q21.1-q22.1	Dejerine-Sottas disease	145900
<i>EGR2</i>	chr10	10q21.1-q22.1	Hypomyelinating neuropathy congenital 1	605253
<i>EIF2AK3</i>	chr2	2p12	Wolcott-Rallison syndrome	226980
<i>EIF2AK4</i>	chr15	15q15.1	Pulmonary venoocclusive disease 2	234810
<i>EIF2B1</i>	chr12	12q24.31	Leukoencephalopathy with vanishing white matter	603896
<i>EIF2B2</i>	chr14	14q24	Ovarioleukodystrophy	603896
<i>EIF2B2</i>	chr14	14q24	Leukoencephalopathy with vanishing white matter	603896
<i>EIF2B3</i>	chr1	1p34.1	Leukoencephalopathy with vanishing white matter	603896
<i>EIF2B4</i>	chr2	2p23.3	Leukoencephalopathy with vanishing white matter	603896
<i>EIF2B4</i>	chr2	2p23.3	Ovarioleukodystrophy	603896
<i>EIF2B5</i>	chr3	3q27	Leukoencephalopathy with vanishing white matter	603896
<i>EIF2B5</i>	chr3	3q27	Ovarioleukodystrophy	603896
<i>EIF2S3</i>	chrX	Xp22.2-p22.1	MEHMO syndrome	300148
<i>EIF4A3</i>	chr17	17q25.3	Robin sequence with cleft mandible and limb anomalies	268305
<i>ELAC2</i>	chr17	17p11	Combined oxidative phosphorylation deficiency 17	615440
<i>ELMOD3</i>	chr2	2p11.3	Deafness autosomal recessive 88	615429
<i>ELOVL4</i>	chr6	6q14	Ichthyosis spastic quadriplegia and mental retardation	614457
<i>ELP1</i>	chr9	9q31	Dysautonomia familial	223900
<i>ELP2</i>	chr18	18q12.2	Mental retardation autosomal recessive 58	617270

<i>EMC1</i>	chr1	1p36.13	Cerebellar atrophy visual impairment and psychomotor retardation	616875
<i>EMD</i>	chrX	Xq28	Emery-Dreifuss muscular dystrophy 1 X-linked	310300
<i>EMG1</i>	chr12	12p13	Bowen-Conradi syndrome	211180
<i>EML1</i>	chr14	14q32	Band heterotopia	600348
<i>EMP2</i>	chr16	16p13.2	Nephrotic syndrome type 10	615861
<i>ENAM</i>	chr4	4q21	Amelogenesis imperfecta type IC	204650
<i>ENO3</i>	chr17	17pter-p12	Glycogen storage disease XIII	612932
<i>ENPP1</i>	chr6	6q22-q23	Hypophosphatemic rickets autosomal recessive 2	613312
<i>ENPP1</i>	chr6	6q22-q23	Obesity susceptibility to	601665
<i>ENPP1</i>	chr6	6q22-q23	Arterial calcification generalized of infancy 1	208000
<i>ENTPD1</i>	chr10	10q24	Spastic paraplegia 64 autosomal recessive	615683
<i>EOGT</i>	chr3	3p14.1	Adams-Oliver syndrome 4	615297
<i>EPB41</i>	chr1	1p36.2-p34	Elliptocytosis-1	611804
<i>EPCAM</i>	chr2	2p21	Diarrhea 5 with tufting enteropathy congenital	613217
<i>EPG5</i>	chr18	18q12.3-q21.1	Vici syndrome	242840
<i>EPHB2</i>	chr1	1p36.1-p35	Bleeding disorder platelet-type 22	618462
<i>EPHX1</i>	chr1	1q42.1	Hypercholanemia familial	607748
<i>EPM2A</i>	chr6	6q24	Epilepsy progressive myoclonic 2A (Lafora)	254780
<i>EPO</i>	chr7	7q21	Diamond-Blackfan anemia-like	617911
<i>EPS8</i>	chr12	12p12.3	Deafness autosomal recessive 102	615974
<i>EPX</i>	chr17	17q23.1	Eosinophil peroxidase deficiency	261500
<i>ERBB3</i>	chr12	12q13	Lethal congenital contractural syndrome 2	607598
<i>ERCC1</i>	chr19	19q13.2-q13.3	Cerebrooculofacioskeletal syndrome 4	610758
<i>ERCC2</i>	chr19	19q13.2-q13.3	Trichothiodystrophy 1 photosensitive	601675
<i>ERCC2</i>	chr19	19q13.2-q13.3	Cerebrooculofacioskeletal syndrome 2	610756
<i>ERCC2</i>	chr19	19q13.2-q13.3	Xeroderma pigmentosum group D	278730
<i>ERCC3</i>	chr2	2q21	Xeroderma pigmentosum group B	610651
<i>ERCC3</i>	chr2	2q21	Trichothiodystrophy 2 photosensitive	616390
<i>ERCC4</i>	chr16	16p13.3-p13.13	Xeroderma pigmentosum type F/Cockayne syndrome	278760
<i>ERCC4</i>	chr16	16p13.3-p13.13	Fanconi anemia complementation group Q	615272
<i>ERCC4</i>	chr16	16p13.3-p13.13	XFE progeroid syndrome	610965
<i>ERCC4</i>	chr16	16p13.3-p13.13	Xeroderma pigmentosum group F	278760
<i>ERCC5</i>	chr13	13q33	Xeroderma pigmentosum group G/Cockayne syndrome	278780
<i>ERCC5</i>	chr13	13q33	Xeroderma pigmentosum group G	278780
<i>ERCC5</i>	chr13	13q33	Cerebrooculofacioskeletal syndrome 3	616570
<i>ERCC6</i>	chr10	10q11	Cerebrooculofacioskeletal syndrome 1	214150
<i>ERCC6</i>	chr10	10q11	Cockayne syndrome type B	133540
<i>ERCC6</i>	chr10	10q11	UV-sensitive syndrome 1	600630
<i>ERCC6</i>	chr10	10q11	De Sanctis-Cacchione syndrome	278800
<i>ERCC6L2</i>	chr9	9q22.32	Bone marrow failure syndrome 2	615715
<i>ERCC8</i>	chr5	5q12	Cockayne syndrome type A	216400
<i>ERCC8</i>	chr5	5q12	UV-sensitive syndrome 2	614621
<i>ERLIN1</i>	chr10	10q24.31	Spastic paraplegia 62	615681
<i>ERLIN2</i>	chr8	8p11.2	Spastic paraplegia 18 autosomal recessive	611225

<i>ESCO2</i>	chr8	8p21.1	Roberts syndrome	268300
<i>ESCO2</i>	chr8	8p21.1	SC phocomelia syndrome	269000
<i>ESPN</i>	chr1	1p36.3-p36.1	Usher syndrome type 1M	618632
<i>ESPN</i>	chr1	1p36.3-p36.1	Deafness autosomal recessive 36	609006
<i>ESPN</i>	chr1	1p36.3-p36.1	Deafness neurosensory without vestibular involvement autosomal dominant	609006
<i>ESR1</i>	chr6	6q25.1	Estrogen resistance	615363
<i>ESRRB</i>	chr14	14q24.3	Deafness autosomal recessive 35	608565
<i>ETFA</i>	chr15	15q23-q25	Glutaric acidemia IIA	231680
<i>ETFB</i>	chr19	19q13.3	Glutaric acidemia IIB	231680
<i>ETFDH</i>	chr4	4q32-qter	Glutaric acidemia IIC	231680
<i>ETHE1</i>	chr19	19q13.32	Ethylmalonic encephalopathy	602473
<i>EVC</i>	chr4	4p16	Ellis-van Creveld syndrome	225500
<i>EVC2</i>	chr4	4p16	Ellis-van Creveld syndrome	225500
<i>EXOC6B</i>	chr2	2p13.2	Spondyloepimetaphyseal dysplasia with joint laxity type 3	618395
<i>EXOSC3</i>	chr9	9p13.2	Pontocerebellar hypoplasia type 1B	614678
<i>EXOSC8</i>	chr13	13q13.1	Pontocerebellar hypoplasia type 1C	616081
<i>EXPH5</i>	chr11	11q22.3	Epidermolysis bullosa nonspecific autosomal recessive	615028
<i>EXT2</i>	chr11	11p12-p11	Seizures scoliosis and macrocephaly syndrome	616682
<i>EXTL3</i>	chr8	8p21	Immunoskeletal dysplasia with neurodevelopmental abnormalities	617425
<i>EYS</i>	chr6	6q12	Retinitis pigmentosa 25	602772
<i>F10</i>	chr13	13q34	Factor X deficiency	227600
<i>F11</i>	chr4	4q35	Factor XI deficiency autosomal recessive	612416
<i>F12</i>	chr5	5q33-qter	Factor XII deficiency	234000
<i>F13A1</i>	chr6	6p25-p24	Factor XIII A deficiency	613225
<i>F13B</i>	chr1	1q31-q32.1	Factor XIII B deficiency	613235
<i>F2</i>	chr11	11p11-q12	Hypoprothrombinemia	613679
<i>F2</i>	chr11	11p11-q12	Dysprothrombinemia	613679
<i>F5</i>	chr1	1q23	Factor V deficiency	227400
<i>F5</i>	chr1	1q23	Budd-Chiari syndrome	600880
<i>F7</i>	chr13	13q34	Factor VII deficiency	227500
<i>F8</i>	chrX	Xq28	Hemophilia A	306700
<i>F9</i>	chrX	Xq27.1-q27.2	Hemophilia B	306900
<i>F9</i>	chrX	Xq27.1-q27.2	Warfarin sensitivity	301052
<i>FA2H</i>	chr16	16q23	Spastic paraplegia 35 autosomal recessive	612319
<i>FADD</i>	chr11	11q13.3	Infections recurrent with encephalopathy hepatic dysfunction and cardiovascular malformations	613759
<i>FAH</i>	chr15	15q23-q25	Tyrosinemia type I	276700
<i>FAM126A</i>	chr7	7p15.3	Leukodystrophy hypomyelinating 5	610532
<i>FAM20A</i>	chr17	17q24.2	Amelogenesis imperfecta type IG (enamel-renal syndrome)	204690
<i>FAM20C</i>	chr7	7p22	Raine syndrome	259775
<i>FAN1</i>	chr15	15q13.2-q13.3	Interstitial nephritis karyomegalic	614817
<i>FANCA</i>	chr16	16q24.3	Fanconi anemia complementation group A	227650
<i>FANCB</i>	chrX	Xp22.31	Fanconi anemia complementation group B	300514
<i>FANCC</i>	chr9	9q22.3	Fanconi anemia complementation group C	227645

<i>FANCD2</i>	chr3	3p25.3	Fanconi anemia complementation group D2	227646
<i>FANCE</i>	chr6	6p22-p21	Fanconi anemia complementation group E	600901
<i>FANCI</i>	chr15	15q25-q26	Fanconi anemia complementation group I	609053
<i>FANCL</i>	chr2	2p16.1	Fanconi anemia complementation group L	614083
<i>FANCM</i>	chr14	14q21.3	Spermatogenic failure 28	618086
<i>FANCM</i>	chr14	14q21.3	Premature ovarian failure 15	618096
<i>FAR1</i>	chr11	11p15.2	Peroxisomal fatty acyl-CoA reductase 1 disorder	616154
<i>FARS2</i>	chr6	6p25.1	Spastic paraplegia 77 autosomal recessive	617046
<i>FARS2</i>	chr6	6p25.1	Combined oxidative phosphorylation deficiency 14	614946
<i>FASTKD2</i>	chr2	2q33.3	Combined oxidative phosphorylation deficiency 44	618855
<i>FAT4</i>	chr4	4q28.1	Van Maldergem syndrome 2	615546
<i>FAT4</i>	chr4	4q28.1	Hennekam lymphangiectasia-lymphedema syndrome 2	616006
<i>FBLN5</i>	chr14	14q32.1	Macular degeneration age-related 3	608895
<i>FBLN5</i>	chr14	14q32.1	Cutis laxa autosomal dominant 2	614434
<i>FBLN5</i>	chr14	14q32.1	Neuropathy hereditary with or without age-related macular degeneration	608895
<i>FBLN5</i>	chr14	14q32.1	Cutis laxa autosomal recessive type IA	219100
<i>FBP1</i>	chr9	9q22.2-q22.3	Fructose-16-bisphosphatase deficiency	229700
<i>FBXL4</i>	chr6	6q16.1-q16.3	Mitochondrial DNA depletion syndrome 13 (encephalomyopathic type)	615471
<i>FBXO31</i>	chr16	16q24.3	Mental retardation autosomal recessive 45	615979
<i>FBXO7</i>	chr22	22q12-q13	Parkinson disease 15 autosomal recessive	260300
<i>FCGR2A</i>	chr1	1q21-q23	Pseudomonas aeruginosa susceptibility to chronic infection by in cystic fibrosis	219700
<i>FCGR3A</i>	chr1	1q23	Immunodeficiency 20	615707
<i>FCN3</i>	chr1	1p36.11	Immunodeficiency due to ficolin 3 deficiency	613860
<i>FDFT1</i>	chr8	8p23.1-p22	Squalene synthase deficiency	618156
<i>FECH</i>	chr18	18q21.3	Protoporphyrin erythropoietic 1	177000
<i>FERMT1</i>	chr20	20p13	Kindler syndrome	173650
<i>FERMT3</i>	chr11	11q12	Leukocyte adhesion deficiency type III	612840
<i>FEZF1</i>	chr7	7q31.32	Hypogonadotropic hypogonadism 22 with or without anosmia	616030
<i>FGA</i>	chr4	4q28	Afibrinogenemia congenital	202400
<i>FGB</i>	chr4	4q28	Afibrinogenemia congenital	202400
<i>FGB</i>	chr4	4q28	Hypofibrinogenemia congenital	202400
<i>FGD1</i>	chrX	Xp11.21	Mental retardation X-linked syndromic 16	305400
<i>FGD1</i>	chrX	Xp11.21	Aarskog-Scott syndrome	305400
<i>FGD4</i>	chr12	12p11.2	Charcot-Marie-Tooth disease type 4H	609311
<i>FGF16</i>	chrX	Xq21.1	Metacarpal 4-5 fusion	309630
<i>FGF20</i>	chr8	8p22-p21.3	Renal hypodysplasia/aplasia 2	615721
<i>FGF23</i>	chr12	12p13.3	Tumoral calcinosis hyperphosphatemic familial 2	617993
<i>FGF3</i>	chr11	11q13	Deafness congenital with inner ear agenesis microtia and microdontia	610706
<i>FGF5</i>	chr4	4q21	Trichomegaly	190330
<i>FGFR3</i>	chr4	4p16.3	CATSHL syndrome	610474
<i>FGG</i>	chr4	4q28	Hypofibrinogenemia congenital	202400
<i>FH</i>	chr1	1q42.1	Fumarase deficiency	606812

<i>FHL1</i>	chrX	Xq27.2	Reducing body myopathy X-linked 1b with late childhood or adult onset	300718
<i>FHL1</i>	chrX	Xq27.2	Uruguay faciocardiomusculoskeletal syndrome	300280
<i>FHL1</i>	chrX	Xq27.2	Emery-Dreifuss muscular dystrophy 6 X-linked	300696
<i>FHL1</i>	chrX	Xq27.2	Myopathy X-linked with postural muscle atrophy	300696
<i>FIG4</i>	chr6	6q21	Yunis-Varon syndrome	216340
<i>FIG4</i>	chr6	6q21	Polymicrogyria bilateral temporooccipital	612691
<i>FIG4</i>	chr6	6q21	Charcot-Marie-Tooth disease type 4J	611228
<i>FKBP10</i>	chr17	17q21.2	Bruck syndrome 1	259450
<i>FKBP10</i>	chr17	17q21.2	Osteogenesis imperfecta type XI	610968
<i>FKBP14</i>	chr7	7p15.1	Ehlers-Danlos syndrome kyphoscoliotic type 2	614557
<i>FKRP</i>	chr19	19q13.3	Muscular dystrophy-dystroglycanopathy (limb-girdle) type C 5	607155
<i>FKRP</i>	chr19	19q13.3	Muscular dystrophy-dystroglycanopathy (congenital with or without mental retardation) type B 5	606612
<i>FKRP</i>	chr19	19q13.3	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies) type A 5	613153
<i>FKTN</i>	chr9	9q31	Muscular dystrophy-dystroglycanopathy (limb-girdle) type C 4	611588
<i>FKTN</i>	chr9	9q31	Cardiomyopathy dilated 1X	611615
<i>FKTN</i>	chr9	9q31	Muscular dystrophy-dystroglycanopathy (congenital without mental retardation) type B 4	613152
<i>FKTN</i>	chr9	9q31	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies) type A 4	253800
<i>FLG</i>	chr1	1q21	Ichthyosis vulgaris	146700
<i>FLI1</i>	chr11	11q24	Bleeding disorder platelet-type 21	617443
<i>FLNA</i>	chrX	Xq28	Congenital short bowel syndrome	300048
<i>FLNA</i>	chrX	Xq28	Intestinal pseudoobstruction neuronal	300048
<i>FLNA</i>	chrX	Xq28	Cardiac valvular dysplasia X-linked	314400
<i>FLNA</i>	chrX	Xq28	FG syndrome 2	300321
<i>FLNA</i>	chrX	Xq28	Frontometaphyseal dysplasia 1	305620
<i>FLNB</i>	chr3	3p14.3	Spondylocarpotarsal synostosis syndrome	272460
<i>FLVCR1</i>	chr1	1q31.3	Ataxia posterior column with retinitis pigmentosa	609033
<i>FLVCR2</i>	chr14	14q24.3	Proliferative vasculopathy and hydranencephaly-hydrocephaly syndrome	225790
<i>FMN2</i>	chr1	1q43	Mental retardation autosomal recessive 47	616193
<i>FMO3</i>	chr1	1q23-q25	Trimethylaminuria	602079
<i>FOLR1</i>	chr11	11q13.3-q13.5	Neurodegeneration due to cerebral folate transport deficiency	613068
<i>FOXE1</i>	chr9	9q22	Bamforth-Lazarus syndrome	241850
<i>FOXE3</i>	chr1	1p32	Anterior segment dysgenesis 2 multiple subtypes	610256
<i>FOXI1</i>	chr5	5q34	Enlarged vestibular aqueduct	600791
<i>FOXL2</i>	chr3	3q23	Blepharophimosis epicanthus inversus and ptosis type 2	110100
<i>FOXL2</i>	chr3	3q23	Blepharophimosis epicanthus inversus and ptosis type 1	110100
<i>FOXN1</i>	chr17	17q11-q12	T-cell immunodeficiency congenital alopecia and nail dystrophy	601705

<i>FOXP3</i>	chrX	Xp11.23-q13.3	Immunodysregulation polyendocrinopathy and enteropathy X-linked	304790
<i>FOXRED1</i>	chr11	11q24.2	Mitochondrial complex I deficiency nuclear type 19	618241
<i>FRAS1</i>	chr4	4q21	Fraser syndrome 1	219000
<i>FREM1</i>	chr9	9p22.3	Manitoba oculotrichoanal syndrome	248450
<i>FREM2</i>	chr13	13q13.3	Fraser syndrome 2	617666
<i>FREM2</i>	chr13	13q13.3	Cryptophthalmos unilateral or bilateral isolated	123570
<i>FRRS1L</i>	chr9	9q31.3	Epileptic encephalopathy early infantile 37	616981
<i>FSHB</i>	chr11	11p13	Hypogonadotropic hypogonadism 24 without anosmia	229070
<i>FSHR</i>	chr2	2p21-p16	Ovarian dysgenesis 1	233300
<i>FSHR</i>	chr2	2p21-p16	Ovarian response to FSH stimulation	276400
<i>FTCD</i>	chr21	21q22.3	Glutamate formiminotransferase deficiency	229100
<i>FTL</i>	chr19	19q13.3-q13.4	Hyperferritinemia-cataract syndrome	600886
<i>FTL</i>	chr19	19q13.3-q13.4	Neurodegeneration with brain iron accumulation 3	606159
<i>FTL</i>	chr19	19q13.3-q13.4	L-ferritin deficiency dominant and recessive	615604
<i>FTO</i>	chr16	16q12.2	Growth retardation developmental delay facial dysmorphism	612938
<i>FTO</i>	chr16	16q12.2	Obesity susceptibility to BMIQ14	612460
<i>FTSJ1</i>	chrX	Xp11.23	Mental retardation X-linked 9/44	309549
<i>FUCA1</i>	chr1	1p34	Fucosidosis	230000
<i>FUT1</i>	chr19	19q13.3	Bombay phenotype	616754
<i>FUT2</i>	chr19	19q13.3	Bombay phenotype digenic	616754
<i>FUT8</i>	chr14	14q23	Congenital disorder of glycosylation with defective fucosylation 1	618005
<i>FXN</i>	chr9	9q13	Friedreich ataxia with retained reflexes	229300
<i>FXN</i>	chr9	9q13	Friedreich ataxia	229300
<i>FYCO1</i>	chr3	3p21.3	Cataract 18 autosomal recessive	610019
<i>FZD6</i>	chr8	8q22.3-q23.1	Nail disorder nonsyndromic congenital 1	161050
<i>G6PC</i>	chr17	17q21	Glycogen storage disease Ia	232200
<i>G6PC3</i>	chr17	17q21	Dursun syndrome	612541
<i>G6PC3</i>	chr17	17q21	Neutropenia severe congenital 4 autosomal recessive	612541
<i>GAA</i>	chr17	17q25.2-q25.3	Glycogen storage disease II	232300
<i>GAD1</i>	chr2	2q31	Cerebral palsy spastic quadriplegic 1	603513
<i>GALC</i>	chr14	14q31	Krabbe disease	245200
<i>GALE</i>	chr1	1p36-p35	Galactose epimerase deficiency	230350
<i>GALK1</i>	chr17	17q24	Galactokinase deficiency with cataracts	230200
<i>GALNS</i>	chr16	16q24.3	Mucopolysaccharidosis IVA	253000
<i>GALNT2</i>	chr1	1q41-q42	Congenital disorder of glycosylation type II _t	618885
<i>GALNT3</i>	chr2	2q24-q31	Tumoral calcinosis hyperphosphatemic familial 1	211900
<i>GALT</i>	chr9	9p13	Galactosemia	230400
<i>GAMT</i>	chr19	19p13.3	Cerebral creatine deficiency syndrome 2	612736
<i>GAN</i>	chr16	16q24.1	Giant axonal neuropathy-1	256850
<i>GAS2L2</i>	chr17	17q12	Ciliary dyskinesia primary 41	618449

<i>GATA1</i>	chrX	Xp11.23	Anemia X-linked with/without neutropenia and/or platelet abnormalities	300835
<i>GATA1</i>	chrX	Xp11.23	Thrombocytopenia X-linked with or without dyserythropoietic anemia	300367
<i>GATA1</i>	chrX	Xp11.23	Thrombocytopenia with beta-thalassemia X-linked	314050
<i>GATA5</i>	chr20	20q13.2-q13.3	Congenital heart defects multiple types 5	617912
<i>GATAD1</i>	chr7	7q21.2	Cardiomyopathy dilated 2B	614672
<i>GATM</i>	chr15	15q21.1	Cerebral creatine deficiency syndrome 3	612718
<i>GBA</i>	chr1	1q21	Gaucher disease type III	231000
<i>GBA</i>	chr1	1q21	Gaucher disease type IIIC	231005
<i>GBA</i>	chr1	1q21	Gaucher disease type I	230800
<i>GBA</i>	chr1	1q21	Gaucher disease perinatal lethal	608013
<i>GBA</i>	chr1	1q21	Gaucher disease type II	230900
<i>GBA2</i>	chr9	9p13.3	Spastic paraplegia 46 autosomal recessive	614409
<i>GBE1</i>	chr3	3p12	Polyglucosan body disease adult form	263570
<i>GBE1</i>	chr3	3p12	Glycogen storage disease IV	232500
<i>GCDH</i>	chr19	19p13.2	Glutaricaciduria type I	231670
<i>GCH1</i>	chr14	14q22.1-q22.2	Hyperphenylalaninemia BH4-deficient B	233910
<i>GCH1</i>	chr14	14q22.1-q22.2	Dystonia DOPA-responsive with or without hyperphenylalaninemia	128230
<i>GCK</i>	chr7	7p15-p13	Diabetes mellitus permanent neonatal 1	606176
<i>GCLC</i>	chr6	6p12	Hemolytic anemia due to gamma-glutamylcysteine synthetase deficiency	230450
<i>GCNT2</i>	chr6	6p24-p23	Cataract 13 with adult i phenotype	116700
<i>GCSH</i>	chr16	16q24	Glycine encephalopathy	605899
<i>GDAP1</i>	chr8	8q21.11	Charcot-Marie-Tooth disease recessive intermediate A	608340
<i>GDAP1</i>	chr8	8q21.11	Charcot-Marie-Tooth disease type 4A	214400
<i>GDAP1</i>	chr8	8q21.11	Charcot-Marie-Tooth disease axonal type 2K	607831
<i>GDAP1</i>	chr8	8q21.11	Charcot-Marie-Tooth disease axonal with vocal cord paresis	607706
<i>GDF1</i>	chr19	19p12	Right atrial isomerism (Ivemark)	208530
<i>GDF5</i>	chr20	20q11.2	Acromesomelic dysplasia Hunter-Thompson type	201250
<i>GDF5</i>	chr20	20q11.2	Brachydactyly type A1 C	615072
<i>GDF5</i>	chr20	20q11.2	Chondrodysplasia Grebe type	200700
<i>GDF5</i>	chr20	20q11.2	Du Pan syndrome	228900
<i>GDF6</i>	chr8	8q22.1	Leber congenital amaurosis 17	615360
<i>GDF9</i>	chr5	5q31.1	Premature ovarian failure 14	618014
<i>GEMIN4</i>	chr17	17p13.3	Neurodevelopmental disorder with microcephaly cataracts and renal abnormalities	617913
<i>GFI1B</i>	chr9	9q34.13	Bleeding disorder platelet-type 17	187900
<i>GFM1</i>	chr3	3q25.32	Combined oxidative phosphorylation deficiency 1	609060
<i>GFM2</i>	chr5	5q13	Combined oxidative phosphorylation deficiency 39	618397
<i>GFPT1</i>	chr2	2p13	Myasthenia congenital 12 with tubular aggregates	610542
<i>GGCX</i>	chr2	2p12	Vitamin K-dependent clotting factors combined deficiency of 1	277450
<i>GH1</i>	chr17	17q22-q24	Kowarski syndrome	262650

<i>GH1</i>	chr17	17q22-q24	Growth hormone deficiency isolated type IA	262400
<i>GHR</i>	chr5	5p13-p12	Laron dwarfism	262500
<i>GHRHR</i>	chr7	7p15-p14	Growth hormone deficiency isolated type IV	618157
<i>GHRL</i>	chr3	3p26-p25	Obesity susceptibility to	601665
<i>GHSR</i>	chr3	3q26.3	Growth hormone deficiency isolated partial	615925
<i>GIPC3</i>	chr19	19p13.3	Deafness autosomal recessive 15	601869
<i>GJA1</i>	chr6	5q22.31	Craniometaphyseal dysplasia autosomal recessive	218400
<i>GJA1</i>	chr6	5q22.31	Oculodentodigital dysplasia autosomal recessive	257850
<i>GJA1</i>	chr6	5q22.31	Hypoplastic left heart syndrome 1	241550
<i>GJB2</i>	chr13	13q11-q12	Deafness autosomal recessive 1A	220290
<i>GJB3</i>	chr1	1p35.1	Deafness autosomal recessive	
<i>GJB3</i>	chr1	1p35.1	Deafness digenic GJB2/GJB3	220290
<i>GJB3</i>	chr1	1p35.1	Erythrokeratoderma variabilis et progressiva 1	133200
<i>GJB6</i>	chr13	13q12	Deafness autosomal recessive 1B	612645
<i>GJB6</i>	chr13	13q12	Deafness digenic GJB2/GJB6	220290
<i>GJC2</i>	chr1	1q42.13	Spastic paraplegia 44 autosomal recessive	613206
<i>GJC2</i>	chr1	1q42.13	Leukodystrophy hypomyelinating 2	608804
<i>GK</i>	chrX	Xp21.3-p21.2	Glycerol kinase deficiency	307030
<i>GLB1</i>	chr3	3p21.33	GM1-gangliosidosis type III	230650
<i>GLB1</i>	chr3	3p21.33	GM1-gangliosidosis type I	230500
<i>GLB1</i>	chr3	3p21.33	Mucopolysaccharidosis type IVB (Morquio)	253010
<i>GLB1</i>	chr3	3p21.33	GM1-gangliosidosis type II	230600
<i>GLDC</i>	chr9	9p22	Glycine encephalopathy	605899
<i>GLE1</i>	chr9	9q34	Congenital arthrogyrosis with anterior horn cell disease	611890
<i>GLE1</i>	chr9	9q34	Lethal congenital contracture syndrome 1	253310
<i>GLI1</i>	chr12	12q13.2-q13.3	Polydactyly postaxial type A8	618123
<i>GLI1</i>	chr12	12q13.2-q13.3	Polydactyly preaxial I	174400
<i>GLIS3</i>	chr9	9p24.3-p23	Diabetes mellitus neonatal with congenital hypothyroidism	610199
<i>GLRA1</i>	chr5	5q32	Hyperekplexia 1	149400
<i>GLRB</i>	chr4	4q31.3	Hyperekplexia 2	614619
<i>GLRX5</i>	chr14	14q32	Anemia sideroblastic 3 pyridoxine-refractory	616860
<i>GLRX5</i>	chr14	14q32	Spasticity childhood-onset with hyperglycinemia	616859
<i>GLS</i>	chr2	2q32-q34	Global developmental delay progressive ataxia and elevated glutamine	618412
<i>GLS</i>	chr2	2q32-q34	Epileptic encephalopathy early infantile 71	618328
<i>GLUL</i>	chr1	1q31	Glutamine deficiency congenital	610015
<i>GLYCTK</i>	chr3	3p21	D-glyceric aciduria	220120
<i>GM2A</i>	chr5	5q31.3-q33.1	GM2-gangliosidosis AB variant	272750
<i>GMPPA</i>	chr2	2q35	Alacrima achalasia and mental retardation syndrome	615510
<i>GMPPB</i>	chr3	3p21.31	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies) type A 14	615350
<i>GMPPB</i>	chr3	3p21.31	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation) type B 14	615351

<i>GMPPB</i>	chr3	3p21.31	Muscular dystrophy-dystroglycanopathy (limb-girdle) type C 14	615352
<i>GNAT1</i>	chr3	3p21	Night blindness congenital stationary type 1G	616389
<i>GNB3</i>	chr12	12p13	Night blindness congenital stationary type 1H	617024
<i>GNB5</i>	chr15	15q21.2	Intellectual developmental disorder with cardiac arrhythmia	617173
<i>GNB5</i>	chr15	15q21.2	Language delay and ADHD/cognitive impairment with or without cardiac arrhythmia	617182
<i>GNE</i>	chr9	9p13.3	Nonaka myopathy	605820
<i>GNMT</i>	chr6	6p12	Glycine N-methyltransferase deficiency	606664
<i>GNPAT</i>	chr1	1q42	Rhizomelic chondrodysplasia punctata type 2	222765
<i>GNPTAB</i>	chr12	12q23.3	Mucopolidosis II alpha/beta	252500
<i>GNPTAB</i>	chr12	12q23.3	Mucopolidosis III alpha/beta	252600
<i>GNPTG</i>	chr16	16p	Mucopolidosis III gamma	252605
<i>GNRH1</i>	chr8	8p21-p11.2	Hypogonadotropic hypogonadism 12 with or without anosmia	614841
<i>GNRHR</i>	chr4	4q21.2	Hypogonadotropic hypogonadism 7 without anosmia	146110
<i>GNS</i>	chr12	12q14	Mucopolysaccharidosis type IIID	252940
<i>GORAB</i>	chr1	1q24.2	Geroderma osteodysplasticum	231070
<i>GOSR2</i>	chr17	17q21	Epilepsy progressive myoclonic 6	614018
<i>GP1BA</i>	chr17	17pter-p12	Bernard-Soulier syndrome type A1 (recessive)	231200
<i>GP1BA</i>	chr17	17pter-p12	Nonarteritic anterior ischemic optic neuropathy susceptibility to	258660
<i>GP1BB</i>	chr22	22q11.2	Giant platelet disorder isolated	231200
<i>GP1BB</i>	chr22	22q11.2	Bernard-Soulier syndrome type B	231200
<i>GP6</i>	chr19	19q13.4	Bleeding disorder platelet-type 11	614201
<i>GP9</i>	chr3	3q21	Bernard-Soulier syndrome type C	231200
<i>GPC3</i>	chrX	Xq26	Simpson-Golabi-Behmel syndrome type 1	312870
<i>GPC4</i>	chrX	Xq26	Keipert syndrome	301026
<i>GPC6</i>	chr13	13q32	Omodysplasia 1	258315
<i>GPD1</i>	chr12	12q12-q13	Hypertriglyceridemia transient infantile	614480
<i>GPHN</i>	chr14	14q24	Molybdenum cofactor deficiency C	615501
<i>GPI</i>	chr19	19q13.1	Hemolytic anemia nonspherocytic due to glucose phosphate isomerase deficiency	613470
<i>GPIHBP1</i>	chr8	8q24.3	Hyperlipoproteinemia type 1D	615947
<i>GPNMB</i>	chr7	7p15.3	Amyloidosis primary localized cutaneous 3	617920
<i>GPR143</i>	chrX	Xp22.3	Ocular albinism type I Nettleship-Falls type	300500
<i>GPR143</i>	chrX	Xp22.3	Nystagmus 6 congenital X-linked	300814
<i>GPR179</i>	chr17	17q12	Night blindness congenital stationary (complete) 1E autosomal recessive	614565
<i>GPR68</i>	chr14	14q31	Amelogenesis imperfecta hypomaturation type IIA6	617217
<i>GPSM2</i>	chr1	1p13.1	Chudley-McCullough syndrome	604213
<i>GPT2</i>	chr16	16q12.1	Mental retardation autosomal recessive 49	616281
<i>GPX1</i>	chr3	3p21.3	Hemolytic anemia due to glutathione peroxidase deficiency	614164
<i>GPX4</i>	chr19	19p13.3	Spondylometaphyseal dysplasia Sedaghatian type	250220
<i>GRHL2</i>	chr8	8q22	Ectodermal dysplasia/short stature syndrome	616029
<i>GRHPR</i>	chr9	9cen	Hyperoxaluria primary type II	260000

<i>GRIA3</i>	chrX	Xq25-q26	Mental retardation X-linked 94	300699
<i>GRID2</i>	chr4	4q22	Spinocerebellar ataxia autosomal recessive 18	616204
<i>GRIK2</i>	chr6	6q21	Mental retardation autosomal recessive 6	611092
<i>GRIN1</i>	chr9	9q34.3	Neurodevelopmental disorder with or without hyperkinetic movements and seizures autosomal recessive	617820
<i>GRIP1</i>	chr12	12q14.3	Fraser syndrome 3	617667
<i>GRM1</i>	chr6	6q24	Spinocerebellar ataxia autosomal recessive 13	614831
<i>GRM6</i>	chr5	5q35	Night blindness congenital stationary (complete) 1B autosomal recessive	257270
<i>GRM7</i>	chr3	3p26.1	Neurodevelopmental disorder with seizures hypotonia and brain imaging abnormalities	618922
<i>GRN</i>	chr17	17q21.32	Ceroid lipofuscinosis neuronal 11	614706
<i>GRXCR1</i>	chr4	4p13	Deafness autosomal recessive 25	613285
<i>GRXCR2</i>	chr5	5q32	Deafness autosomal recessive 101	615837
<i>GSC</i>	chr14	14q32.1	Short stature auditory canal atresia mandibular hypoplasia skeletal abnormalities	602471
<i>GSR</i>	chr8	8p21.1	Hemolytic anemia due to glutathione reductase deficiency	618660
<i>GSS</i>	chr20	20q11.2	Glutathione synthetase deficiency	266130
<i>GSS</i>	chr20	20q11.2	Hemolytic anemia due to glutathione synthetase deficiency	231900
<i>GSTZ1</i>	chr14	14q24.3	Maleylacetoacetate isomerase deficiency	617596
<i>GTPBP3</i>	chr19	19p13.11	Combined oxidative phosphorylation deficiency 23	616198
<i>GUCY2C</i>	chr12	12p12	Meconium ileus	614665
<i>GUCY2D</i>	chr17	17p13.1	Cone-rod dystrophy 6	601777
<i>GUCY2D</i>	chr17	17p13.1	Leber congenital amaurosis 1	204000
<i>GUCY2D</i>	chr17	17p13.1	Night blindness congenital stationary type 11	618555
<i>GUSB</i>	chr7	7q21.11	Mucopolysaccharidosis VII	253220
<i>GYG1</i>	chr3	3q24-q25.1	Glycogen storage disease XV	613507
<i>GYG1</i>	chr3	3q24-q25.1	Polyglucosan body myopathy 2	616199
<i>GYS1</i>	chr19	19q13.3	Glycogen storage disease 0 muscle	611556
<i>GYS2</i>	chr12	12p12.2	Glycogen storage disease 0 liver	240600
<i>H6PD</i>	chr1	1p36	Cortisone reductase deficiency 1	604931
<i>HACE1</i>	chr6	6q21	Spastic paraplegia and psychomotor retardation with or without seizures	616756
<i>HADH</i>	chr4	4q22-q26	3-hydroxyacyl-CoA dehydrogenase deficiency	231530
<i>HADH</i>	chr4	4q22-q26	Hyperinsulinemic hypoglycemia familial 4	609975
<i>HADHA</i>	chr2	2p23	LCHAD deficiency	609016
<i>HADHA</i>	chr2	2p23	HELLP syndrome maternal of pregnancy	609016
<i>HADHA</i>	chr2	2p23	Mitochondrial trifunctional protein deficiency	609015
<i>HADHA</i>	chr2	2p23	Fatty liver acute of pregnancy	609016
<i>HADHB</i>	chr2	2p23	Trifunctional protein deficiency	609015
<i>HAL</i>	chr12	12q22-q23	Histidinemia	235800
<i>HAMP</i>	chr19	19q13	Hemochromatosis type 2B	613313
<i>HARS2</i>	chr5	5q31.3	Perrault syndrome 2	614926
<i>HAX1</i>	chr1	1q21.3	Neutropenia severe congenital 3 autosomal recessive	610738
<i>HBB</i>	chr11	11p15.5	Thalassemia beta	613985

<i>HBB</i>	chr11	11p15.5	Sickle cell anemia	603903
<i>HCFC1</i>	chrX	Xq28	Mental retardation X-linked 3 (methylmalonic acidemia and homocysteinemia cblX type)	309541
<i>HEPACAM</i>	chr11	11q24	Megalencephalic leukoencephalopathy with subcortical cysts 2A	613925
<i>HERC1</i>	chr15	15q22.31	Macrocephaly dysmorphic facies and psychomotor retardation	617011
<i>HERC2</i>	chr15	15q13.1	Skin/hair/eye pigmentation 1 blue/nonblue eyes	227220
<i>HERC2</i>	chr15	15q13.1	Mental retardation autosomal recessive 38	615516
<i>HERC2</i>	chr15	15q13.1	Skin/hair/eye pigmentation 1 blond/brown hair	227220
<i>HES7</i>	chr17	17p13.2	Spondylocostal dysostosis 4 autosomal recessive	613686
<i>HESX1</i>	chr3	3p21.2-p21.1	Pituitary hormone deficiency combined 5	182230
<i>HESX1</i>	chr3	3p21.2-p21.1	Septooptic dysplasia	182230
<i>HESX1</i>	chr3	3p21.2-p21.1	Growth hormone deficiency with pituitary anomalies	182230
<i>HEXA</i>	chr15	15q23-q24	GM2-gangliosidosis several forms	272800
<i>HEXA</i>	chr15	15q23-q24	Tay-Sachs disease	272800
<i>HEXA</i>	chr15	15q23-q24	Hex A pseudodeficiency	272800
<i>HEXB</i>	chr5	5q13	Sandhoff disease infantile juvenile and adult forms	268800
<i>HFE</i>	chr6	6p21.3	Porphyria cutanea tarda susceptibility to	176100
<i>HFE</i>	chr6	6p21.3	Hemochromatosis	235200
<i>HFM1</i>	chr1	1p22.2	Premature ovarian failure 9	615724
<i>HGD</i>	chr3	3q13.33	Alkaptonuria	203500
<i>HGF</i>	chr7	7q21.1	Deafness autosomal recessive 39	608265
<i>HGSNAT</i>	chr8	8p11.1	Retinitis pigmentosa 73	616544
<i>HGSNAT</i>	chr8	8p11.1	Mucopolysaccharidosis type IIIC (Sanfilippo C)	252930
<i>HIBCH</i>	chr2	2q32.2	3-hydroxyisobutryl-CoA hydrolase deficiency	250620
<i>HINT1</i>	chr5	5q31.2	Neuromyotonia and axonal neuropathy autosomal recessive	137200
<i>HK1</i>	chr10	10q22	Hemolytic anemia due to hexokinase deficiency	235700
<i>HK1</i>	chr10	10q22	Neuropathy hereditary motor and sensory Russe type	605285
<i>HK1</i>	chr10	10q22	Neurodevelopmental disorder with visual defects and brain anomalies	618547
<i>HK1</i>	chr10	10q22	Retinitis pigmentosa 79	617460
<i>HLA-DQA1</i>	chr6	6p21.3	Celiac disease susceptibility to	212750
<i>HLA-DQB1</i>	chr6	6p21.3	Celiac disease susceptibility to	212750
<i>HLCS</i>	chr21	21q22.1	Holocarboxylase synthetase deficiency	253270
<i>HMGCL</i>	chr1	1pter-p33	HMG-CoA lyase deficiency	246450
<i>HMGCS2</i>	chr1	1p13-p12	HMG-CoA synthase-2 deficiency	605911
<i>HMX1</i>	chr4	4p16.1	Oculoauricular syndrome	612109
<i>HNF1A</i>	chr12	12q24.2	Diabetes mellitus insulin-dependent	222100
<i>HNMT</i>	chr2	2q22	Mental retardation autosomal recessive 51	616739
<i>HOGA1</i>	chr10	10q24.2	Hyperoxaluria primary type III	613616
<i>HOXA2</i>	chr7	7p15-p14	Microtia with or without hearing impairment (AD)	612290
<i>HOXA2</i>	chr7	7p15-p14	Microtia hearing impairment and cleft palate (AR)	612290
<i>HOXB1</i>	chr17	17q21-q22	Facial paresis hereditary congenital 3	614744
<i>HOXC13</i>	chr12	12q13	Ectodermal dysplasia 9 hair/nail type	614931
<i>HPCA</i>	chr1	1p35-p34.2	Dystonia 2 torsion autosomal recessive	224500

<i>HPD</i>	chr12	12q24-qter	Tyrosinemia type III	276710
<i>HPGD</i>	chr4	4q34-q35	Hypertrophic osteoarthropathy primary autosomal recessive 1	259100
<i>HPGD</i>	chr4	4q34-q35	Digital clubbing isolated congenital	119900
<i>HPGD</i>	chr4	4q34-q35	Cranioosteoarthropathy	259100
<i>HPRT1</i>	chrX	Xq26.2	HPRT-related gout	300323
<i>HPRT1</i>	chrX	Xq26.2	Lesch-Nyhan syndrome	300322
<i>HPS1</i>	chr10	10q23.1	Hermansky-Pudlak syndrome 1	203300
<i>HPS3</i>	chr3	3q24	Hermansky-Pudlak syndrome 3	614072
<i>HPS4</i>	chr22	22q11.2-q12.2	Hermansky-Pudlak syndrome 4	614073
<i>HPS5</i>	chr11	11p15-p13	Hermansky-Pudlak syndrome 5	614074
<i>HPS6</i>	chr10	10q24.32	Hermansky-Pudlak syndrome 6	614075
<i>HPSE2</i>	chr10	10q23-q24	Urofacial syndrome 1	236730
<i>HR</i>	chr8	8p21.2	Alopecia universalis	203655
<i>HR</i>	chr8	8p21.2	Atrichia with papular lesions	209500
<i>HSD11B2</i>	chr16	16q22	Apparent mineralocorticoid excess	218030
<i>HSD17B3</i>	chr9	9q22	Pseudohermaphroditism male with gynecomastia	264300
<i>HSD17B4</i>	chr5	5q23.1	D-bifunctional protein deficiency	261515
<i>HSD17B4</i>	chr5	5q23.1	Perrault syndrome 1	233400
<i>HSD3B2</i>	chr1	1p13.1	Adrenal hyperplasia congenital due to 3-beta-hydroxysteroid dehydrogenase 2 deficiency	201810
<i>HSD3B7</i>	chr16	16p12-p11.2	Bile acid synthesis defect congenital 1	607765
<i>HSPA9</i>	chr5	5q31.2	Even-plus syndrome	616854
<i>HSPD1</i>	chr2	2q33.1	Leukodystrophy hypomyelinating 4	612233
<i>HSPG2</i>	chr1	1p36.1	Dyssegmental dysplasia Silverman-Handmaker type	224410
<i>HTRA1</i>	chr10	10q25.3-q26.2	CARASIL syndrome	600142
<i>HTRA2</i>	chr2	2p12	3-methylglutaconic aciduria type VIII	617248
<i>HTT</i>	chr4	4p16.3	Lopes-Maciel-Rodan syndrome	617435
<i>HYAL1</i>	chr3	3p21.3-p21.2	Mucopolysaccharidosis type IX	601492
<i>HYDIN</i>	chr16	16q22.2	Ciliary dyskinesia primary 5	608647
<i>HYLS1</i>	chr11	11q24.2	Hydrolethalus syndrome	236680
<i>IARS2</i>	chr1	1q41	Cataracts growth hormone deficiency sensory neuropathy sensorineural hearing loss and skeletal dysplasia	616007
<i>IBA57</i>	chr1	1q42.13	Spastic paraplegia 74 autosomal recessive	616451
<i>IBA57</i>	chr1	1q42.13	Multiple mitochondrial dysfunctions syndrome 3	615330
<i>ICOS</i>	chr2	2q33	Immunodeficiency common variable 1	607594
<i>IDS</i>	chrX	Xq28	Mucopolysaccharidosis II	309900
<i>IDUA</i>	chr4	4p16.3	Mucopolysaccharidosis Ih/s	607015
<i>IDUA</i>	chr4	4p16.3	Mucopolysaccharidosis Ih	607014
<i>IDUA</i>	chr4	4p16.3	Mucopolysaccharidosis Is	607016
<i>IER3IP1</i>	chr18	18q21.1	Microcephaly epilepsy and diabetes syndrome	614231
<i>IFNAR2</i>	chr21	21q22.1	Immunodeficiency 45	616669
<i>IFNG</i>	chr12	12q14	Immunodeficiency 69 mycobacteriosis	618963
<i>IFNGR1</i>	chr6	6q23.3	Immunodeficiency 27A mycobacteriosis AR	209950

<i>IFNGR2</i>	chr21	21q22.1-q22.2	Immunodeficiency 28 mycobacteriosis	614889
<i>IFT122</i>	chr3	3q21	Cranioectodermal dysplasia 1	218330
<i>IFT140</i>	chr16	16p13.3	Retinitis pigmentosa 80	617781
<i>IFT140</i>	chr16	16p13.3	Short-rib thoracic dysplasia 9 with or without polydactyly	266920
<i>IFT172</i>	chr2	2p23.3	Retinitis pigmentosa 71	616394
<i>IFT172</i>	chr2	2p23.3	Short-rib thoracic dysplasia 10 with or without polydactyly	615630
<i>IFT27</i>	chr22	22q12.3	Bardet-Biedl syndrome 19	615996
<i>IFT43</i>	chr14	14q24.3	Cranioectodermal dysplasia 3	614099
<i>IFT43</i>	chr14	14q24.3	Short-rib thoracic dysplasia 18 with polydactyly	617866
<i>IFT43</i>	chr14	14q24.3	Retinitis pigmentosa 81	617871
<i>IFT80</i>	chr3	3q25.33	Short-rib thoracic dysplasia 2 with or without polydactyly	611263
<i>IGBP1</i>	chrX	Xq13.1-q13.3	Corpus callosum agenesis of with mental retardation ocular coloboma and micrognathia	300472
<i>IGF1</i>	chr12	12q22-q24.1	Growth retardation with deafness and mental retardation due to IGF1 deficiency	608747
<i>IGF1R</i>	chr15	15q25-q26	Insulin-like growth factor I resistance to	270450
<i>IGFBP7</i>	chr4	4q12	Retinal arterial macroaneurysm with supravalvular pulmonic stenosis	614224
<i>IGHM</i>	chr14	14q32.33	Agammaglobulinemia 1	601495
<i>IGHMBP2</i>	chr11	11q13.2-q13.4	Neuronopathy distal hereditary motor type VI	604320
<i>IGHMBP2</i>	chr11	11q13.2-q13.4	Charcot-Marie-Tooth disease axonal type 2S	616155
<i>IGLL1</i>	chr22	22q11.21	Agammaglobulinemia 2	613500
<i>IGSF1</i>	chrX	Xq25	Hypothyroidism central and testicular enlargement	300888
<i>IGSF3</i>	chr1	1p13	Lacrimal duct defect	149700
<i>IHH</i>	chr2	2q33-q35	Acrocapitofemoral dysplasia	607778
<i>IKBKB</i>	chr8	8p11.2	Immunodeficiency 15B	615592
<i>IKBKG</i>	chrX	Xq28	Immunodeficiency 33	300636
<i>IKBKG</i>	chrX	Xq28	Ectodermal dysplasia and immunodeficiency 1	300291
<i>IL10RA</i>	chr11	11q23.3	Inflammatory bowel disease 28 early onset autosomal recessive	613148
<i>IL10RB</i>	chr21	21q22.1	Inflammatory bowel disease 25 early onset autosomal recessive	612567
<i>IL11RA</i>	chr9	9p13	Craniosynostosis and dental anomalies	614188
<i>IL12B</i>	chr5	5q33.3	Immunodeficiency 29 mycobacteriosis	614890
<i>IL12RB1</i>	chr19	19p13.1	Immunodeficiency 30	614891
<i>IL17RA</i>	chr22	22q11.22-q11.23	Immunodeficiency 51	613953
<i>IL17RD</i>	chr3	3p14.3-p14.2	Hypogonadotropic hypogonadism 18 with or without anosmia	615267
<i>IL1RAPL1</i>	chrX	Xp22.1-p21.3	Mental retardation X-linked 21/34	300143
<i>IL1RN</i>	chr2	2q14.2	Interleukin 1 receptor antagonist deficiency	612852
<i>IL21</i>	chr4	4q26-q27	Immunodeficiency common variable 11	615767
<i>IL21R</i>	chr16	16p11	Immunodeficiency 56	615207

<i>IL2RA</i>	chr10	10p15.1	Immunodeficiency 41 with lymphoproliferation and autoimmunity	606367
<i>IL2RG</i>	chrX	Xq13	Severe combined immunodeficiency X-linked	300400
<i>IL2RG</i>	chrX	Xq13	Combined immunodeficiency X-linked moderate	312863
<i>IL36RN</i>	chr2	2q13	Psoriasis 14 pustular	614204
<i>IL6</i>	chr7	7p21	Diabetes susceptibility to	222100
<i>IL6R</i>	chr1	1q21.3	Hyper-IgE recurrent infection syndrome 5 autosomal recessive	618944
<i>IL6ST</i>	chr5	5q11	Hyper-IgE recurrent infection syndrome 4 autosomal recessive	618523
<i>IL7</i>	chr8	8q21.13	Epidermodysplasia verruciformis susceptibility to 5	618309
<i>IL7R</i>	chr5	5p13	Severe combined immunodeficiency T-cell negative B-cell/natural killer cell-positive type	608971
<i>ILDR1</i>	chr3	3q21.1	Deafness autosomal recessive 42	609646
<i>IMPG2</i>	chr3	3q11.2	Retinitis pigmentosa 56	613581
<i>INPP5K</i>	chr17	17p13.3	Muscular dystrophy congenital with cataracts and intellectual disability	617404
<i>INPPL1</i>	chr11	11q23	Opsismodysplasia	258480
<i>INS</i>	chr11	11p15.5	Maturity-onset diabetes of the young type 10	613370
<i>INS</i>	chr11	11p15.5	Hyperproinsulinemia	616214
<i>INS</i>	chr11	11p15.5	Diabetes mellitus insulin-dependent 2	125852
<i>INS</i>	chr11	11p15.5	Diabetes mellitus permanent neonatal	618858
<i>INSR</i>	chr19	19p13.2	Rabson-Mendenhall syndrome	262190
<i>INSR</i>	chr19	19p13.2	Leprechaunism	246200
<i>INTU</i>	chr4	4q28	Short-rib thoracic dysplasia 20 with polydactyly	617925
<i>INTU</i>	chr4	4q28	Orofaciodigital syndrome XVII	617926
<i>INVS</i>	chr9	9q31	Nephronophthisis 2 infantile	602088
<i>IQCB1</i>	chr3	3q13.33	Senior-Loken syndrome 5	609254
<i>IQCE</i>	chr7	7p22.3	Polydactyly postaxial type A7	617642
<i>IRAK4</i>	chr12	12q12	Immunodeficiency 67	607676
<i>IRF7</i>	chr11	11p15.5	Immunodeficiency 39	616345
<i>IRF8</i>	chr16	16q24.1	Immunodeficiency 32B monocyte and dendritic cell deficiency autosomal recessive	226990
<i>IRF9</i>	chr14	14q11.2	Immunodeficiency 65 susceptibility to viral infections	618648
<i>IRS4</i>	chrX	Xq22.3	Hypothyroidism congenital nongoitrous 9	301035
<i>IRX5</i>	chr16	16q11.2-q13	Hamamy syndrome	611174
<i>ISCA2</i>	chr14	14q24.3	Multiple mitochondrial dysfunctions syndrome 4	616370
<i>ISCU</i>	chr12	12q24.1	Myopathy with lactic acidosis hereditary	255125
<i>ISG15</i>	chr1	1p36.33	Immunodeficiency 38	616126
<i>ITCH</i>	chr20	20q11.22-q11.23	Autoimmune disease multisystem with facial dysmorphism	613385
<i>ITGA2B</i>	chr17	17q21.32	Glanzmann thrombasthenia	273800
<i>ITGA3</i>	chr17	17q21.33	Interstitial lung disease nephrotic syndrome and epidermolysis bullosa congenital	614748
<i>ITGA6</i>	chr2	2q31.1	Epidermolysis bullosa junctional with pyloric stenosis	226730
<i>ITGA7</i>	chr12	12q13	Muscular dystrophy congenital due to ITGA7 deficiency	613204
<i>ITGA8</i>	chr10	10p13	Renal hypodysplasia/aplasia 1	191830

<i>ITGB2</i>	chr21	21q22.3	Leukocyte adhesion deficiency	116920
<i>ITGB3</i>	chr17	17q21.32	Glanzmann thrombasthenia	273800
<i>ITGB4</i>	chr17	17q11-qter	Epidermolysis bullosa junctional with pyloric atresia	226730
<i>ITGB4</i>	chr17	17q11-qter	Epidermolysis bullosa junctional non-Herlitz type	226650
<i>ITGB6</i>	chr2	2q24.2	Amelogenesis imperfecta type IH	616221
<i>ITK</i>	chr5	5q32	Lymphoproliferative syndrome 1	613011
<i>ITPA</i>	chr20	20p	Epileptic encephalopathy early infantile 35	616647
<i>ITPR1</i>	chr3	3p26.1	Gillespie syndrome	206700
<i>ITPR2</i>	chr12	12p11	Anhidrosis isolated with normal sweat glands	106190
<i>ITPR3</i>	chr6	6pter-p21	Diabetes type 1 susceptibility to	222100
<i>IVD</i>	chr15	15q14-q15	Isovaleric acidemia	243500
<i>IYD</i>	chr6	6q24-q25	Thyroid dysmorphogenesis 4	274800
<i>JAGN1</i>	chr3	3p25.3	Neutropenia severe congenital 6 autosomal recessive	616022
<i>JAK3</i>	chr19	19p13.1	SCID autosomal recessive T-negative/B-positive type	600802
<i>JAM3</i>	chr11	11q25	Hemorrhagic destruction of the brain subependymal calcification and cataracts	613730
<i>JUP</i>	chr17	17q21	Naxos disease	601214
<i>KANK2</i>	chr19	19p13.2	Palmoplantar keratoderma and woolly hair	616099
<i>KANK2</i>	chr19	19p13.2	Nephrotic syndrome type 16	617783
<i>KATNB1</i>	chr16	16q21	Lissencephaly 6 with microcephaly	616212
<i>KCNA4</i>	chr11	11q13.4-q14.1	Microcephaly cataracts impaired intellectual development and dystonia with abnormal striatum	618284
<i>KCNE1</i>	chr21	21q22.1-q22.2	Jervell and Lange-Nielsen syndrome 2	612347
<i>KCNJ1</i>	chr11	11q24	Bartter syndrome type 2	241200
<i>KCNJ10</i>	chr1	1q23.2	Enlarged vestibular aqueduct digenic	600791
<i>KCNJ10</i>	chr1	1q23.2	SESAME syndrome	612780
<i>KCNJ11</i>	chr11	11p15.1	Hyperinsulinemic hypoglycemia familial 2	601820
<i>KCNJ13</i>	chr2	2q37	Leber congenital amaurosis 16	614186
<i>KCNMA1</i>	chr10	10q22.3	Cerebellar atrophy developmental delay and seizures	617643
<i>KCNQ1</i>	chr11	11p15.5	Jervell and Lange-Nielsen syndrome	220400
<i>KCNV2</i>	chr9	9p24.2	Retinal cone dystrophy 3B	610356
<i>KCTD7</i>	chr7	7q11.21	Epilepsy progressive myoclonic 3 with or without intracellular inclusions	611726
<i>KDM5B</i>	chr1	1q32	Mental retardation autosomal recessive 65	618109
<i>KDM5C</i>	chrX	Xp11.22-p11.21	Mental retardation X-linked syndromic Claes-Jensen type	300534
<i>KDSR</i>	chr18	18q21.3	Erythrokeratoderma variabilis et progressiva 4	617526
<i>KERA</i>	chr12	12q22	Cornea plana 2 autosomal recessive	217300
<i>KHDC3L</i>	chr6	6q13	Hydatidiform mole recurrent 2	614293
<i>KHK</i>	chr2	2p23.3-p23.2	Fructosuria	229800
<i>KIAA1109</i>	chr4	4q27	Alkuraya-Kucinkas syndrome	617822
<i>KIAA1549</i>	chr7	7q34	Retinitis pigmentosa 86	618613
<i>KIF14</i>	chr1	1q31	Microcephaly 20 primary autosomal recessive	617914
<i>KIF14</i>	chr1	1q31	Meckel syndrome 12	616258

<i>KIF1A</i>	chr2	2q37	Spastic paraplegia 30 autosomal dominant	610357
<i>KIF1A</i>	chr2	2q37	Neuropathy hereditary sensory type IIC	614213
<i>KIF1A</i>	chr2	2q37	Spastic paraplegia 30 autosomal recessive	610357
<i>KIF1C</i>	chr17	17p13.2	Spastic ataxia 2 autosomal recessive	611302
<i>KIF4A</i>	chrX	Xq13.1	Mental retardation X-linked 100	300923
<i>KIF7</i>	chr15	15q26.1	Hydroletharus syndrome 2	614120
<i>KIF7</i>	chr15	15q26.1	Acrocallosal syndrome	200990
<i>KIF7</i>	chr15	15q26.1	Joubert syndrome 12	200990
<i>KIF7</i>	chr15	15q26.1	Al-Gazali-Bakalinova syndrome	607131
<i>KISS1</i>	chr1	1q32	Hypogonadotropic hypogonadism 13 with or without anosmia	614842
<i>KISS1R</i>	chr19	19p13.3	Hypogonadotropic hypogonadism 8 with or without anosmia	614837
<i>KIZ</i>	chr20	20p11.23	Retinitis pigmentosa 69	615780
<i>KL</i>	chr13	13q12	Tumoral calcinosis hyperphosphatemic familial 3	617994
<i>KLHDC8B</i>	chr3	3p21.31	Hodgkin lymphoma susceptibility to	236000
<i>KLHL15</i>	chrX	Xp22.1	Mental retardation X-linked 103	300982
<i>KLHL3</i>	chr5	5q31	Pseudohypoaldosteronism type IID	614495
<i>KLHL40</i>	chr3	3p22.1	Nemaline myopathy 8 autosomal recessive	615348
<i>KLHL41</i>	chr2	2q31.1	Nemaline myopathy 9	615731
<i>KLHL7</i>	chr7	7p15.3	PERCHING syndrome	617055
<i>KLK4</i>	chr19	19q13.4	Amelogenesis imperfecta type IIA1	204700
<i>KLKB1</i>	chr4	4q35	Fletcher factor (prekallikrein) deficiency	612423
<i>KNG1</i>	chr3	3q27	Kininogen deficiency	228960
<i>KNG1</i>	chr3	3q27	High molecular weight kininogen deficiency	228960
<i>KNL1</i>	chr15	15q15.1	Microcephaly 4 primary autosomal recessive	604321
<i>KPTN</i>	chr19	19q13.4	Mental retardation autosomal recessive 41	615637
<i>KRT1</i>	chr12	12q13	Epidermolytic hyperkeratosis	113800
<i>KRT10</i>	chr17	17q21-q22	Epidermolytic hyperkeratosis	113800
<i>KRT14</i>	chr17	17q12-q21	Epidermolysis bullosa simplex recessive 1	601001
<i>KRT18</i>	chr12	12q13	Cirrhosis noncryptogenic susceptibility to	215600
<i>KRT18</i>	chr12	12q13	Cirrhosis cryptogenic	215600
<i>KRT5</i>	chr12	12q13	Epidermolysis bullosa simplex recessive 1	601001
<i>KRT74</i>	chr12	12q13	Ectodermal dysplasia 7 hair/nail type	614929
<i>KRT8</i>	chr12	12q13	Cirrhosis noncryptogenic susceptibility to	215600
<i>KRT8</i>	chr12	12q13	Cirrhosis cryptogenic	215600
<i>KRT83</i>	chr12	12q13	Erythrokeratoderma variabilis et progressiva 5	617756
<i>KRT85</i>	chr12	12q13	Ectodermal dysplasia 4 hair/nail type	602032
<i>KYNU</i>	chr2	2q22.2	Vertebral cardiac renal and limb defects syndrome 2	617661
<i>KYNU</i>	chr2	2q22.2	Hydroxykynureninuria	236800
<i>L1CAM</i>	chrX	Xq28	MASA syndrome	303350
<i>L1CAM</i>	chrX	Xq28	Hydrocephalus with Hirschsprung disease	307000
<i>L1CAM</i>	chrX	Xq28	Hydrocephalus with congenital idiopathic intestinal pseudoobstruction	307000
<i>L1CAM</i>	chrX	Xq28	Corpus callosum partial agenesis of	304100
<i>L1CAM</i>	chrX	Xq28	CRASH syndrome	303350
<i>L1CAM</i>	chrX	Xq28	Hydrocephalus due to aqueductal stenosis	307000

<i>L2HGDH</i>	chr14	14q22.1	L-2-hydroxyglutaric aciduria	236792
<i>LAMA1</i>	chr18	18p11.31	Poretti-Boltshauser syndrome	615960
<i>LAMA2</i>	chr6	6q22-q23	Muscular dystrophy limb-girdle autosomal recessive 23	618138
<i>LAMA2</i>	chr6	6q22-q23	Muscular dystrophy congenital merosin deficient or partially deficient	607855
<i>LAMA3</i>	chr18	18q11.2	Epidermolysis bullosa junctional Herlitz type	226700
<i>LAMA3</i>	chr18	18q11.2	Laryngoonychocutaneous syndrome	245660
<i>LAMA3</i>	chr18	18q11.2	Epidermolysis bullosa generalized atrophic benign	226650
<i>LAMB1</i>	chr7	7q31.1-q31.3	Lissencephaly 5	615191
<i>LAMB2</i>	chr3	3p21	Pierson syndrome	609049
<i>LAMB3</i>	chr1	1q32	Epidermolysis bullosa junctional Herlitz type	226700
<i>LAMB3</i>	chr1	1q32	Epidermolysis bullosa junctional non-Herlitz type	226650
<i>LAMC2</i>	chr1	1q25-q31	Epidermolysis bullosa junctional non-Herlitz type	226650
<i>LAMC2</i>	chr1	1q25-q31	Epidermolysis bullosa junctional Herlitz type	226700
<i>LAMC3</i>	chr9	9q33-q34	Cortical malformations occipital	614115
<i>LAMTOR2</i>	chr1	1q22	Immunodeficiency due to defect in MAPBP-interacting protein	610798
<i>LARGE1</i>	chr22	22q12.3-q13.1	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation) type B 6	608840
<i>LARGE1</i>	chr22	22q12.3-q13.1	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies) type A 6	613154
<i>LARP7</i>	chr4	4q25	Alazami syndrome	615071
<i>LARS2</i>	chr3	3p21.3	Perrault syndrome 4	615300
<i>LARS2</i>	chr3	3p21.3	Hydrops lactic acidosis and sideroblastic anemia	617021
<i>LAS1L</i>	chrX	Xq12	Wilson-Turner syndrome	309585
<i>LBR</i>	chr1	1q42.1	Greenberg skeletal dysplasia	215140
<i>LCA5</i>	chr6	6q14.1	Leber congenital amaurosis 5	604537
<i>LCAT</i>	chr16	16q22.1	Norum disease	245900
<i>LCAT</i>	chr16	16q22.1	Fish-eye disease	136120
<i>LCK</i>	chr1	1p35-p34.3	Immunodeficiency 22	615758
<i>LCT</i>	chr2	2q21	Lactase deficiency congenital	223000
<i>LDHA</i>	chr11	11p15.4	Glycogen storage disease XI	612933
<i>LDLRAP1</i>	chr1	1p36-p35	Hypercholesterolemia familial 4	603813
<i>LEP</i>	chr7	7q31.3	Obesity morbid due to leptin deficiency	614962
<i>LEPR</i>	chr1	1p31	Obesity morbid due to leptin receptor deficiency	614963
<i>P3H1</i>	chr1	1p34	Osteogenesis imperfecta type VIII	610915
<i>LFNG</i>	chr7	7p22	Spondylocostal dysostosis 3 autosomal recessive	609813
<i>LGI4</i>	chr19	19q13.11	Arthrogryposis multiplex congenita 1 neurogenic with myelin defect	617468
<i>LHB</i>	chr19	19q13.32	Hypogonadotropic hypogonadism 23 with or without anosmia	228300
<i>LHCGR</i>	chr2	2p21	Luteinizing hormone resistance female	238320
<i>LHCGR</i>	chr2	2p21	Leydig cell hypoplasia with pseudohermaphroditism	238320
<i>LHCGR</i>	chr2	2p21	Leydig cell hypoplasia with hypergonadotropic hypogonadism	238320
<i>LHFPL5</i>	chr6	6p21.3	Deafness autosomal recessive 67	610265
<i>LHX3</i>	chr9	9q34.3	Pituitary hormone deficiency combined 3	221750

<i>LIAS</i>	chr4	4p14	Hyperglycinemia lactic acidosis and seizures	614462
<i>LIFR</i>	chr5	5p13.1	Stuve-Wiedemann syndrome/Schwartz-Jampel type 2 syndrome	601559
<i>LIG4</i>	chr13	13q22-q34	LIG4 syndrome	606593
<i>LIM2</i>	chr19	19q13.4	Cataract 19 multiple types	615277
<i>LIMS2</i>	chr2	2q14.3	Muscular dystrophy autosomal recessive with cardiomyopathy and triangular tongue	616827
<i>LINS1</i>	chr15	15q26	Mental retardation autosomal recessive 27	614340
<i>LIPA</i>	chr10	10q23.31	Wolman disease	278000
<i>LIPA</i>	chr10	10q23.31	Cholesteryl ester storage disease	278000
<i>LIPC</i>	chr15	15q21.3	Hepatic lipase deficiency	614025
<i>LIPE</i>	chr19	19q13.1-q13.2	Lipodystrophy familial partial type 6	615980
<i>LIPH</i>	chr3	3q27-q28	Woolly hair autosomal recessive 2 with or without hypotrichosis	604379
<i>LIPH</i>	chr3	3q27-q28	Hypotrichosis 7	604379
<i>LIPN</i>	chr10	10q23.31	Ichthyosis congenital autosomal recessive 8	613943
<i>LIPT1</i>	chr2	2q11.2	Lipoyltransferase 1 deficiency	616299
<i>LMAN1</i>	chr18	18q21.3-q22	Combined factor V and VIII deficiency	227300
<i>LMAN2L</i>	chr2	2q11.2	Mental retardation autosomal recessive 52	616887
<i>LMBR1</i>	chr7	7q36	Acheiropody	200500
<i>LMBRD1</i>	chr6	6q13	Methylmalonic aciduria and homocystinuria cblF type	277380
<i>LMF1</i>	chr16	16p13.3	Lipase deficiency combined	246650
<i>LMNA</i>	chr1	1q21.2	Charcot-Marie-Tooth disease type 2B1	605588
<i>LMNA</i>	chr1	1q21.2	Hutchinson-Gilford progeria	176670
<i>LMNA</i>	chr1	1q21.2	Restrictive dermopathy lethal	275210
<i>LMNA</i>	chr1	1q21.2	Mandibuloacral dysplasia	248370
<i>LMNA</i>	chr1	1q21.2	Emery-Dreifuss muscular dystrophy 3 autosomal recessive	616516
<i>LMNB2</i>	chr19	19p13.3	Epilepsy progressive myoclonic 9	616540
<i>LMOD3</i>	chr3	3p14.1	Nemaline myopathy 10	616165
<i>LONP1</i>	chr19	19p13.2	CODAS syndrome	600373
<i>LOXHD1</i>	chr18	18q12-q21	Deafness autosomal recessive 77	613079
<i>LPAR6</i>	chr13	13q14.12-q14.2	Hypotrichosis 8	278150
<i>LPAR6</i>	chr13	13q14.12-q14.2	Woolly hair autosomal recessive 1 with or without hypotrichosis	278150
<i>LPIN1</i>	chr2	2p21	Myoglobinuria acute recurrent autosomal recessive	268200
<i>LPL</i>	chr8	8p22	Lipoprotein lipase deficiency	238600
<i>LPL</i>	chr8	8p22	High density lipoprotein cholesterol level QTL 11	238600
<i>LRAT</i>	chr4	4q31	Retinal dystrophy early-onset severe	613341
<i>LRAT</i>	chr4	4q31	Leber congenital amaurosis 14	613341
<i>LRAT</i>	chr4	4q31	Retinitis pigmentosa juvenile	613341
<i>LRBA</i>	chr4	4q31.3	Immunodeficiency common variable 8 with autoimmunity	614700
<i>LRIG2</i>	chr1	1p13	Urofacial syndrome 2	615112
<i>LRIT3</i>	chr4	4q25	Night blindness congenital stationary (complete) 1F autosomal recessive	615058

<i>LRMDA</i>	chr10	10q22.3	Albinism oculocutaneous type VII	615179
<i>LRP1</i>	chr12	12q13.1-q13.3	Keratosis pilaris atrophicans	604093
<i>LRP2</i>	chr2	2q24-q31	Donnai-Barrow syndrome	222448
<i>LRP4</i>	chr11	11p12-p11.2	Myasthenic syndrome congenital 17	616304
<i>LRP4</i>	chr11	11p12-p11.2	Sclerosteosis 2	614305
<i>LRP4</i>	chr11	11p12-p11.2	Cenani-Lenz syndactyly syndrome	212780
<i>LRP5</i>	chr11	11q13.4	Exudative vitreoretinopathy 4	601813
<i>LRP5</i>	chr11	11q13.4	Osteoporosis-pseudoglioma syndrome	259770
<i>LRPAP1</i>	chr4	4p16.3	Myopia 23 autosomal recessive	615431
<i>LRPPRC</i>	chr2	2p21	Leigh syndrome French-Canadian type	220111
<i>LRRC6</i>	chr8	8q24.22	Ciliary dyskinesia primary 19	614935
<i>LRSAM1</i>	chr9	9q33.3-q34.11	Charcot-Marie-Tooth disease axonal type 2P	614436
<i>LRTOMT</i>	chr11	11q13.3-q13.4	Deafness autosomal recessive 63	611451
<i>LTBP2</i>	chr14	14q24	Microspherophakia and/or megalocornea with ectopia lentis and with or without secondary glaucoma	251750
<i>LTBP2</i>	chr14	14q24	Weill-Marchesani syndrome 3 recessive	614819
<i>LTBP3</i>	chr11	11q12	Dental anomalies and short stature	601216
<i>LTBP4</i>	chr19	19q13.1-q13.2	Cutis laxa autosomal recessive type IC	613177
<i>LTC4S</i>	chr5	5q35	Leukotriene C4 synthase deficiency	614037
<i>LYRM4</i>	chr6	6p25.1	Combined oxidative phosphorylation deficiency 19	615595
<i>LYRM7</i>	chr5	5q23.3	Mitochondrial complex III deficiency nuclear type 8	615838
<i>LYST</i>	chr1	1q42.3	Chediak-Higashi syndrome	214500
<i>LZTFL1</i>	chr3	3p21.3	Bardet-Biedl syndrome 17	615994
<i>LZTR1</i>	chr22	22q11.1-q11.2	Noonan syndrome 2	605275
<i>MAB21L2</i>	chr4	4q31.3	Microphthalmia/coloboma and skeletal dysplasia syndrome	615877
<i>MAG</i>	chr19	19q13.1	Spastic paraplegia 75 autosomal recessive	616680
<i>MAGI2</i>	chr7	7q21	Nephrotic syndrome type 15	617609
<i>MAGT1</i>	chrX	Xq13.1-q13.2	Immunodeficiency X-linked with magnesium defect Epstein-Barr virus infection and neoplasia	300853
<i>MAGT1</i>	chrX	Xq13.1-q13.2	Congenital disorder of glycosylation type Icc	301031
<i>MAK</i>	chr6	6p24.2	Retinitis pigmentosa 62	614181
<i>MALT1</i>	chr18	18q21	Immunodeficiency 12	615468
<i>MAMLD1</i>	chrX	Xq28	Hypospadias 2 X-linked	300758
<i>MAN1B1</i>	chr9	9q34.3	Mental retardation autosomal recessive 15	614202
<i>MAN2B1</i>	chr19	19cen-q12	Mannosidosis alpha- types I and II	248500
<i>MANBA</i>	chr4	4q22-q25	Mannosidosis beta	248510
<i>MAOA</i>	chrX	Xp11.23	Brunner syndrome	300615
<i>MAOA</i>	chrX	Xp11.23	Antisocial behavior	300615
<i>MAPT</i>	chr17	17q21.1	Supranuclear palsy progressive atypical	260540
<i>MARS2</i>	chr2	2q33.1	Spastic ataxia 3 autosomal recessive	611390
<i>MARS2</i>	chr2	2q33.1	Combined oxidative phosphorylation deficiency 25	616430
<i>MARVELD2</i>	chr5	5q13.1	Deafness autosomal recessive 49	610153

COMPATIBILITY

GENETIC TEST

<i>MASP1</i>	chr3	3q27-q28	3MC syndrome 1	257920
<i>MASP2</i>	chr1	1p36.3-p36.2	MASP2 deficiency	613791
<i>MAT1A</i>	chr10	10q22	Methionine adenosyltransferase deficiency autosomal recessive	250850
<i>MAT1A</i>	chr10	10q22	Hypermethioninemia persistent autosomal dominant due to methionine adenosyltransferase I/III deficiency	250850
<i>MATN3</i>	chr2	2p24-p23	Spondyloepimetaphyseal dysplasia	608728
<i>MBOAT7</i>	chr19	19q13.4	Mental retardation autosomal recessive 57	617188
<i>MBTPS2</i>	chrX	Xp22.12-p22.11	IFAP syndrome with or without BRESHECK syndrome	308205
<i>MBTPS2</i>	chrX	Xp22.12-p22.11	Keratosis follicularis spinulosa decalvans X-linked	308800
<i>MBTPS2</i>	chrX	Xp22.12-p22.11	Osteogenesis imperfecta type XIX	301014
<i>MBTPS2</i>	chrX	Xp22.12-p22.11	?Olmsted syndrome X-linked	300918
<i>MC1R</i>	chr16	16q24.3	Skin/hair/eye pigmentation 2 blond hair/fair skin	266300
<i>MC1R</i>	chr16	16q24.3	Albinism oculocutaneous type II modifier of	203200
<i>MC1R</i>	chr16	16q24.3	UV-induced skin damage	266300
<i>MC1R</i>	chr16	16q24.3	Skin/hair/eye pigmentation 2 red hair/fair skin	266300
<i>MC2R</i>	chr18	18p11.2	Glucocorticoid deficiency due to ACTH unresponsiveness	202200
<i>MC4R</i>	chr18	18q22	Obesity (BMIQ20)	618406
<i>MCCC1</i>	chr3	3q25-q27	3-Methylcrotonyl-CoA carboxylase 1 deficiency	210200
<i>MCCC2</i>	chr5	5q12-q13	3-Methylcrotonyl-CoA carboxylase 2 deficiency	210210
<i>MCEE</i>	chr2	2p13.3	Methylmalonyl-CoA epimerase deficiency	251120
<i>MCM3AP</i>	chr21	21q22.3	Peripheral neuropathy autosomal recessive with or without impaired intellectual development	618124
<i>MCM4</i>	chr8	8q11.2	Immunodeficiency 54	609981
<i>MCM5</i>	chr22	22q13.1	Meier-Gorlin syndrome 8	617564
<i>MCM8</i>	chr20	20p13-p12.3	Premature ovarian failure 10	612885
<i>MCM9</i>	chr6	6q22.1-q22.33	Ovarian dysgenesis 4	616185
<i>MCOLN1</i>	chr19	19p13.3-p13.2	Mucopolidosis IV	252650
<i>MCPH1</i>	chr8	8p23	Microcephaly 1 primary autosomal recessive	251200
<i>MDH2</i>	chr7	7q11.23	Epileptic encephalopathy early infantile 51	617339
<i>MDM2</i>	chr12	12q14.3-q15	Lessel-Kubisch syndrome	618681
<i>MECP2</i>	chrX	Xq28	Mental retardation X-linked syndromic Lubs type	300260
<i>MECP2</i>	chrX	Xq28	Encephalopathy neonatal severe	300673
<i>MECP2</i>	chrX	Xq28	Mental retardation X-linked syndromic 13	300055
<i>MECP2</i>	chrX	Xq28	Autism susceptibility X-linked 3	300496
<i>MED12</i>	chrX	Xq13	Ohdo syndrome X-linked	300895
<i>MED12</i>	chrX	Xq13	Lujan-Fryns syndrome	309520
<i>MED12</i>	chrX	Xq13	Opitz-Kaveggia syndrome	305450
<i>MED17</i>	chr11	11q21	Microcephaly postnatal progressive with seizures and brain atrophy	613668
<i>MED23</i>	chr6	6q23.2	Mental retardation autosomal recessive 18	614249
<i>MED25</i>	chr19	19q13.3	Basel-Vanagait-Smirin-Yosef syndrome	616449
<i>MEFV</i>	chr16	16p13	Familial Mediterranean fever AR	249100

GCT - MORE THAN 3000 RECESSIVE DISORDERS

LAST REVIEW: SEPTEMBER 2020

<i>MEGF10</i>	chr5	5q23.2	Myopathy areflexia respiratory distress and dysphagia early-onset mild variant	614399
<i>MEGF10</i>	chr5	5q23.2	Myopathy areflexia respiratory distress and dysphagia early-onset	614399
<i>MEGF8</i>	chr19	19q12	Carpenter syndrome 2	614976
<i>MEOX1</i>	chr17	17q21	Klippel-Feil syndrome 2	214300
<i>MERTK</i>	chr2	2q14.1	Retinitis pigmentosa 38	613862
<i>MESD</i>	chr15	15q25.1	Osteogenesis imperfecta type XX	618644
<i>MESP2</i>	chr15	15q26.1	Spondylocostal dysostosis 2 autosomal recessive	608681
<i>MET</i>	chr7	7q31	Deafness autosomal recessive 97	616705
<i>METTL23</i>	chr17	17q25.1	Mental retardation autosomal recessive 44	615942
<i>MFF</i>	chr2	2q36.3	Encephalopathy due to defective mitochondrial and peroxisomal fission 2	617086
<i>MFN2</i>	chr1	1p36.2	Charcot-Marie-Tooth disease axonal type 2A2B	617087
<i>MFRP</i>	chr11	11q23	Microphthalmia isolated 5	611040
<i>MFSD2A</i>	chr1	1p34.2	Neurodevelopmental disorder with progressive microcephaly spasticity and brain imaging abnormalities	616486
<i>MFSD8</i>	chr4	4q28.1-q28.2	Macular dystrophy with central cone involvement	616170
<i>MFSD8</i>	chr4	4q28.1-q28.2	Ceroid lipofuscinosis neuronal 7	610951
<i>MGAT2</i>	chr14	14q21	Congenital disorder of glycosylation type IIa	212066
<i>MGME1</i>	chr20	20p11.23	Mitochondrial DNA depletion syndrome 11	615084
<i>MGP</i>	chr12	12p13.1-p12.3	Keutel syndrome	245150
<i>MICU1</i>	chr10	10q22.1	Myopathy with extrapyramidal signs	615673
<i>MID1</i>	chrX	Xp22	Opitz GBBB syndrome type I	300000
<i>MID2</i>	chrX	Xq22	Mental retardation X-linked 101	300928
<i>MIR2861</i>	chr9	9q34.11	Bone mineral density QTL 15	613418
<i>MITF</i>	chr3	3p14.1-p12.3	COMMAD syndrome	617306
<i>MKKS</i>	chr20	20p12	Bardet-Biedl syndrome 6	605231
<i>MKKS</i>	chr20	20p12	McKusick-Kaufman syndrome	236700
<i>MKS1</i>	chr17	17q23	Bardet-Biedl syndrome 13	615990
<i>MKS1</i>	chr17	17q23	Joubert syndrome 28	617121
<i>MKS1</i>	chr17	17q23	Meckel syndrome 1	249000
<i>MLC1</i>	chr22	22q13.33	Megalencephalic leukoencephalopathy with subcortical cysts	604004
<i>MLH1</i>	chr3	3p21.3	Mismatch repair cancer syndrome	276300
<i>MLPH</i>	chr2	2q37	Griscelli syndrome type 3	609227
<i>MLYCD</i>	chr16	16q24	Malonyl-CoA decarboxylase deficiency	248360
<i>MMAA</i>	chr4	4q31.1-q31.2	Methylmalonic aciduria vitamin B12-responsive	251100
<i>MMAB</i>	chr12	12q24	Methylmalonic aciduria vitamin B12-responsive due to defect in synthesis of adenosylcobalamin cblB complementation type	251110
<i>MMACHC</i>	chr1	1p34.1	Methylmalonic aciduria and homocystinuria cblC type	277400
<i>MMADHC</i>	chr2	2q23.2	Homocystinuria cblD type variant 1	277410
<i>MMADHC</i>	chr2	2q23.2	Methylmalonic aciduria and homocystinuria cblD type	277410
<i>MMADHC</i>	chr2	2q23.2	Methylmalonic aciduria cblD type variant 2	277410
<i>MME</i>	chr3	3q21-q27	Charcot-Marie-Tooth disease axonal type 2T	617017

<i>MMP1</i>	chr11	11q22-q23	Epidermolysis bullosa dystrophica autosomal recessive modifier of	226600
<i>MMP13</i>	chr11	11q22.3	Metaphyseal dysplasia Spahr type	250400
<i>MMP2</i>	chr16	16q13	Multicentric osteolysis nodulosis and arthropathy	259600
<i>MMP20</i>	chr11	11q22.3-q23	Amelogenesis imperfecta type IIA2	612529
<i>MOCOS</i>	chr18	18q12.2	Xanthinuria type II	603592
<i>MOCS1</i>	chr6	6p21.3	Molybdenum cofactor deficiency A	252150
<i>MOCS2</i>	chr5	5q11	Molybdenum cofactor deficiency B	252160
<i>MOGS</i>	chr2	2p13.1	Congenital disorder of glycosylation type IIb	606056
<i>MPC1</i>	chr6	6q27	Mitochondrial pyruvate carrier deficiency	614741
<i>MPDU1</i>	chr17	17p13.1-p12	Congenital disorder of glycosylation type If	609180
<i>MPDZ</i>	chr9	9p23	Hydrocephalus congenital 2 with or without brain or eye anomalies	615219
<i>MPI</i>	chr15	15q22-qter	Congenital disorder of glycosylation type Ib	602579
<i>MPL</i>	chr1	1p34	Thrombocytopenia congenital amegakaryocytic	604498
<i>MPLKIP</i>	chr7	7p14	Trichothiodystrophy 4 nonphotosensitive	234050
<i>MPO</i>	chr17	17q23.1	Myeloperoxidase deficiency	254600
<i>MPV17</i>	chr2	2p23-p21	Charcot-Marie-Tooth disease axonal type 2EE	618400
<i>MPV17</i>	chr2	2p23-p21	Mitochondrial DNA depletion syndrome 6 (hepatocerebral type)	256810
<i>MPZ</i>	chr1	1q22	Dejerine-Sottas disease	145900
<i>MRAP</i>	chr21	21q22.1	Glucocorticoid deficiency 2	607398
<i>MRPL12</i>	chr17	17q25-qter	Combined oxidative phosphorylation deficiency 45	618951
<i>MRPL3</i>	chr3	3q22.1	Combined oxidative phosphorylation deficiency 9	614582
<i>MRPL44</i>	chr2	2q36	Combined oxidative phosphorylation deficiency 16	615395
<i>MRPS16</i>	chr10	10q22.1	Combined oxidative phosphorylation deficiency 2	610498
<i>MRPS2</i>	chr9	9q34	Combined oxidative phosphorylation deficiency 36	617950
<i>MRPS22</i>	chr3	3q23	Combined oxidative phosphorylation deficiency 5	611719
<i>MRPS22</i>	chr3	3q23	Ovarian dysgenesis 7	618117
<i>MS4A1</i>	chr11	11q13	Immunodeficiency common variable 5	613495
<i>MSH2</i>	chr2	2p22-p21	Mismatch repair cancer syndrome	276300
<i>MSH3</i>	chr5	5q11-q12	Familial adenomatous polyposis 4	617100
<i>MSH5</i>	chr6	6p21.33	Premature ovarian failure 13	617442
<i>MSH6</i>	chr2	2p16	Mismatch repair cancer syndrome	276300
<i>MSMO1</i>	chr4	4q32-q34	Microcephaly congenital cataract and psoriasiform dermatitis	616834
<i>MSRB3</i>	chr12	12q14.3	Deafness autosomal recessive 74	613718
<i>MTFMT</i>	chr15	15q22.31	Combined oxidative phosphorylation deficiency 15	614947
<i>MTFMT</i>	chr15	15q22.31	Mitochondrial complex I deficiency nuclear type 27	618248
<i>MTHFD1</i>	chr14	14q24	Combined immunodeficiency and megaloblastic anemia with or without hyperhomocysteinemia	617780
<i>MTHFD1</i>	chr14	14q24	Neural tube defects folate-sensitive susceptibility to	601634
<i>MTHFR</i>	chr1	1p36.3	Homocystinuria due to MTHFR deficiency	236250
<i>MTHFR</i>	chr1	1p36.3	Neural tube defects susceptibility to	601634
<i>MTHFS</i>	chr15	15q25.1	Neurodevelopmental disorder with microcephaly epilepsy and hypomyelination	618367

<i>MTM1</i>	chrX	Xq28	Myotubular myopathy X-linked	310400
<i>MTMR2</i>	chr11	11q22	Charcot-Marie-Tooth disease type 4B1	601382
<i>MTO1</i>	chr6	6q13	Combined oxidative phosphorylation deficiency 10	614702
<i>MTPAP</i>	chr10	10p11.23	Spastic ataxia 4 autosomal recessive	613672
<i>MTR</i>	chr1	1q43	Neural tube defects folate-sensitive susceptibility to	601634
<i>MTR</i>	chr1	1q43	Homocystinuria-megaloblastic anemia cblG complementation type	250940
<i>MTRR</i>	chr5	5p15.3-p15.2	Neural tube defects folate-sensitive susceptibility to	601634
<i>MTRR</i>	chr5	5p15.3-p15.2	Homocystinuria-megaloblastic anemia cbl E type	236270
<i>MTTP</i>	chr4	4q22-q24	Abetalipoproteinemia	200100
<i>MUSK</i>	chr9	9q31.3-q32	Fetal akinesia deformation sequence 1	208150
<i>MUSK</i>	chr9	9q31.3-q32	Myasthenic syndrome congenital 9 associated with acetylcholine receptor deficiency	616325
<i>MUTYH</i>	chr1	1p34.3-p32.1	Adenomas multiple colorectal	608456
<i>MVK</i>	chr12	12q24	Hyper-IgD syndrome	260920
<i>MVK</i>	chr12	12q24	Mevalonic aciduria	610377
<i>MYBPC1</i>	chr12	12q23.2	Lethal congenital contracture syndrome 4	614915
<i>MYBPC3</i>	chr11	11p11.2	Cardiomyopathy hypertrophic 4	115197
<i>MYD88</i>	chr3	3p22-p21.3	Immunodeficiency 68	612260
<i>MYF5</i>	chr12	12q21	Ophthalmoplegia external with rib and vertebral anomalies	618155
<i>MYH2</i>	chr17	17p13.1	Proximal myopathy and ophthalmoplegia	605637
<i>MYH3</i>	chr17	17p13.1	Contractures pterygia and spondylotarsal fusion syndrome 1B	618469
<i>MYH7</i>	chr14	14q12	Myopathy myosin storage autosomal recessive	255160
<i>MYL1</i>	chr2	2q32.1-qter	Myopathy congenital with fast-twitch (type II) fiber atrophy	618414
<i>MYL3</i>	chr3	3p	Cardiomyopathy hypertrophic 8	608751
<i>MYLK</i>	chr3	3q21	Megacystis-microcolon-intestinal hypoperistalsis syndrome	249210
<i>MYO15A</i>	chr17	17p11.2	Deafness autosomal recessive 3	600316
<i>MYO18B</i>	chr22	22q12.1	Klippel-Feil syndrome 4 autosomal recessive with myopathy and facial dysmorphism	616549
<i>MYO1E</i>	chr15	15q21-q22	Glomerulosclerosis focal segmental 6	614131
<i>MYO3A</i>	chr10	10p11.1	Deafness autosomal recessive 30	607101
<i>MYO5A</i>	chr15	15q21	Griscelli syndrome type 1	214450
<i>MYO5B</i>	chr18	18q21	Microvillus inclusion disease	251850
<i>MYO6</i>	chr6	6q13	Deafness autosomal recessive 37	607821
<i>MYO7A</i>	chr11	11q13.5	Deafness autosomal recessive 2	600060
<i>MYO7A</i>	chr11	11q13.5	Usher syndrome type 1B	276900
<i>MYPN</i>	chr10	10q21.1	Nemaline myopathy 11 autosomal recessive	617336
<i>NAA10</i>	chrX	Xq28	Ogden syndrome	300855
<i>NAA10</i>	chrX	Xq28	Microphthalmia syndromic 1	309800
<i>NADK2</i>	chr5	5p13.2	24-dienoyl-CoA reductase deficiency	616034
<i>NAGA</i>	chr22	22q11	Kanzaki disease	609242
<i>NAGA</i>	chr22	22q11	Schindler disease type I	609241
<i>NAGA</i>	chr22	22q11	Schindler disease type III	609241
<i>NAGLU</i>	chr17	17q21	Mucopolysaccharidosis type IIIB (Sanfilippo B)	252920

<i>NAGS</i>	chr17	17q21.31	N-acetylglutamate synthase deficiency	237310
<i>NALCN</i>	chr13	13q33.11	Hypotonia infantile with psychomotor retardation and characteristic facies 1	615419
<i>NARS2</i>	chr11	11q14.1	Deafness autosomal recessive 94	618434
<i>NARS2</i>	chr11	11q14.1	Combined oxidative phosphorylation deficiency 24	616239
<i>NAT2</i>	chr8	8p23.1-p21.3	Acetylation slow	243400
<i>NAT8L</i>	chr4	4p16.3	N-acetylaspartate deficiency	614063
<i>NBAS</i>	chr2	2p24-p23	Infantile liver failure syndrome 2	616483
<i>NBAS</i>	chr2	2p24-p23	Short stature optic nerve atrophy and Pelger-Huet anomaly	614800
<i>NBEAL2</i>	chr3	3p22.1-p21.1	Gray platelet syndrome	139090
<i>NBN</i>	chr8	8q21	Nijmegen breakage syndrome	251260
<i>NCAPD2</i>	chr12	12p13.31	Microcephaly 21 primary autosomal recessive	617983
<i>NCAPG2</i>	chr7	7q36.3	Khan-Khan-Katsanis syndrome	618460
<i>NCF1</i>	chr7	7q11.23	Chronic granulomatous disease 1 autosomal recessive	233700
<i>NCF2</i>	chr1	1q25	Chronic granulomatous disease due to deficiency of NCF-2	233710
<i>NCF4</i>	chr22	22q13.1	Chronic granulomatous disease 3 autosomal recessive	613960
<i>NDE1</i>	chr16	16p13.1	Lissencephaly 4 (with microcephaly)	614019
<i>NDE1</i>	chr16	16p13.1	Microhydranencephaly	605013
<i>NDP</i>	chrX	Xp11.4	Exudative vitreoretinopathy 2 X-linked	305390
<i>NDP</i>	chrX	Xp11.4	Norrie disease	310600
<i>NDRG1</i>	chr8	8q24.3	Charcot-Marie-Tooth disease type 4D	601455
<i>NDST1</i>	chr5	5q32-q33.3	Mental retardation autosomal recessive 46	616116
<i>NDUFA1</i>	chrX	Xq24	Mitochondrial complex I deficiency nuclear type 12	301020
<i>NDUFA10</i>	chr2	2q37.3	Mitochondrial complex I deficiency nuclear type 22	618243
<i>NDUFA11</i>	chr19	19p13.3	Mitochondrial complex I deficiency nuclear type 14	618236
<i>NDUFA12</i>	chr12	12q22	Mitochondrial complex I deficiency nuclear type 23	618244
<i>NDUFA13</i>	chr19	19p13.2-p13.1	Mitochondrial complex I deficiency nuclear type 28	618249
<i>NDUFA2</i>	chr5	5q31.2	Mitochondrial complex I deficiency nuclear type 13	618235
<i>NDUFA6</i>	chr22	22q13.1	Mitochondrial complex I deficiency nuclear type 33	618253
<i>NDUFA9</i>	chr12	12p	Mitochondrial complex I deficiency nuclear type 26	618247
<i>NDUFAF1</i>	chr15	15q13.3	Mitochondrial complex I deficiency nuclear type 11	618234
<i>NDUFAF2</i>	chr5	5q12.1	Mitochondrial complex I deficiency nuclear type 10	618233
<i>NDUFAF3</i>	chr3	3p21.31	Mitochondrial complex I deficiency nuclear type 18	618240
<i>NDUFAF4</i>	chr6	6q16.1	Mitochondrial complex I deficiency nuclear type 15	618237
<i>NDUFAF5</i>	chr20	20p12.1	Mitochondrial complex I deficiency nuclear type 16	618238
<i>NDUFAF6</i>	chr8	8q22.1	Fanconi renotubular syndrome 5	618913
<i>NDUFAF6</i>	chr8	8q22.1	Mitochondrial complex I deficiency nuclear type 17	618239
<i>NDUFB3</i>	chr2	2q31.3	Mitochondrial complex I deficiency nuclear type 25	618246
<i>NDUFB8</i>	chr10	10q23.2-q23.33	Mitochondrial complex I deficiency nuclear type 32	618252

<i>NDUFB9</i>	chr8	8q13.3	Mitochondrial complex I deficiency nuclear type 24	618245
<i>NDUFS1</i>	chr2	2q33-q34	Mitochondrial complex I deficiency nuclear type 5	618226
<i>NDUFS2</i>	chr1	1q23	Mitochondrial complex I deficiency nuclear type 6	618228
<i>NDUFS3</i>	chr11	11p11.11	Mitochondrial complex I deficiency nuclear type 8	618230
<i>NDUFS4</i>	chr5	5q11.1	Mitochondrial complex I deficiency nuclear type 1	252010
<i>NDUFS6</i>	chr5	5pter-p15.33	Mitochondrial complex I deficiency nuclear type 9	618232
<i>NDUFS7</i>	chr19	19p13	Mitochondrial complex I deficiency nuclear type 3	618224
<i>NDUFS8</i>	chr11	11q13	Mitochondrial complex I deficiency nuclear type 2	618222
<i>NDUFV1</i>	chr11	11q13	Mitochondrial complex I deficiency nuclear type 4	618225
<i>NDUFV2</i>	chr18	18p11.31- p11.2	Mitochondrial complex I deficiency nuclear type 7	618229
<i>NEB</i>	chr2	2q22	Nemaline myopathy 2 autosomal recessive	256030
<i>NECAP1</i>	chr12	12p13.31	Epileptic encephalopathy early infantile 21	615833
<i>NECTIN1</i>	chr11	11q23-q24	Orofacial cleft 7	225060
<i>NECTIN1</i>	chr11	11q23-q24	Cleft lip/palate-ectodermal dysplasia syndrome	225060
<i>NECTIN4</i>	chr1	1q23.3	Ectodermal dysplasia-syndactyly syndrome 1	613573
<i>NEFH</i>	chr22	22q12.2	Charcot-Marie-Tooth disease axonal type 2CC	616924
<i>NEFH</i>	chr22	22q12.2	Amyotrophic lateral sclerosis susceptibility to	105400
<i>NEFL</i>	chr8	8p21	Charcot-Marie-Tooth disease type 1F	607734
<i>NEK1</i>	chr4	4q33	Short-rib thoracic dysplasia 6 with or without polydactyly	263520
<i>NEK2</i>	chr1	1q32.2-q41	Retinitis pigmentosa 67	615565
<i>NEK8</i>	chr17	17q11.1	Renal-hepatic-pancreatic dysplasia 2	615415
<i>NEU1</i>	chr6	6p21.3	Sialidosis type II	256550
<i>NEU1</i>	chr6	6p21.3	Sialidosis type I	256550
<i>NEUROG3</i>	chr10	10q21.3	Diarrhea 4 malabsorptive congenital	610370
<i>NFU1</i>	chr2	2p15-p13	Multiple mitochondrial dysfunctions syndrome 1	605711
<i>NGF</i>	chr1	1p13.1	Neuropathy hereditary sensory and autonomic type V	608654
<i>NGLY1</i>	chr3	3p24	Congenital disorder of deglycosylation	615273
<i>NHLRC1</i>	chr6	6p22.3	Epilepsy progressive myoclonic 2B (Lafora)	254780
<i>NHP2</i>	chr5	5q35.3	Dyskeratosis congenita autosomal recessive 2	613987
<i>NIN</i>	chr14	14q22.1	Seckel syndrome 7	614851
<i>NIPAL4</i>	chr5	5q33	Ichthyosis congenital autosomal recessive 6	612281
<i>NKX3-2</i>	chr4	4p16.1	Spondylo-megaepiphyseal-metaphyseal dysplasia	613330
<i>NLRP1</i>	chr17	17p13	Autoinflammation with arthritis and dyskeratosis	617388
<i>NLRP1</i>	chr17	17p13	Respiratory papillomatosis juvenile recurrent congenital	618803
<i>NLRP7</i>	chr19	19q13.4	Hydatidiform mole recurrent 1	231090
<i>NME8</i>	chr7	7p14.1	Ciliary dyskinesia primary 6	610852
<i>NMNAT1</i>	chr1	1p36.22	Leber congenital amaurosis 9	608553
<i>NNT</i>	chr5	5p12	Glucocorticoid deficiency 4 with or without mineralocorticoid deficiency	614736
<i>NOP10</i>	chr15	15q14-q15	Dyskeratosis congenita autosomal recessive 1	224230
<i>NPC1</i>	chr18	18q11-q12	Niemann-Pick disease type D	257220
<i>NPC1</i>	chr18	18q11-q12	Niemann-Pick disease type C1	257220
<i>NPC2</i>	chr14	14q24.3	Niemann-pick disease type C2	607625
<i>NPHP1</i>	chr2	2q13	Nephronophthisis 1 juvenile	256100

<i>NPHP1</i>	chr2	2q13	Senior-Loken syndrome-1	266900
<i>NPHP1</i>	chr2	2q13	Joubert syndrome 4	609583
<i>NPHP3</i>	chr3	3q22	Meckel syndrome 7	267010
<i>NPHP3</i>	chr3	3q22	Renal-hepatic-pancreatic dysplasia 1	208540
<i>NPHP3</i>	chr3	3q22	Nephronophthisis 3	604387
<i>NPHP4</i>	chr1	1p36	Nephronophthisis 4	606966
<i>NPHP4</i>	chr1	1p36	Senior-Loken syndrome 4	606996
<i>NPHS1</i>	chr19	19q13.1	Nephrotic syndrome type 1	256300
<i>NPHS2</i>	chr1	1q25-q31	Nephrotic syndrome type 2	600995
<i>NPPA</i>	chr1	1p36.2	Atrial standstill 2	615745
<i>NPR2</i>	chr9	9p21-p12	Acromesomelic dysplasia Maroteaux type	602875
<i>NROB1</i>	chrX	Xp21.3-p21.2	Adrenal hypoplasia congenital	300200
<i>NROB1</i>	chrX	Xp21.3-p21.2	46XY sex reversal 2 dosage-sensitive	300018
<i>NROB2</i>	chr1	1p36.1	Obesity mild early-onset	601665
<i>NR1H4</i>	chr12	12q23.1	Cholestasis progressive familial intrahepatic 5	617049
<i>NR2E3</i>	chr15	15q23	Enhanced S-cone syndrome	268100
<i>NR2E3</i>	chr15	15q23	Retinitis pigmentosa 37	611131
<i>NRL</i>	chr14	14q11.1-q11.2	Retinal degeneration autosomal recessive clumped pigment type	
<i>NRXN1</i>	chr2	2p16.3	Pitt-Hopkins-like syndrome 2	614325
<i>NSDHL</i>	chrX	Xq28	CK syndrome	300831
<i>NSMCE3</i>	chr15	15q13.1	Lung disease immunodeficiency and chromosome breakage syndrome	617241
<i>NSUN2</i>	chr5	5p15.31	Mental retardation autosomal recessive 5	611091
<i>NT5C2</i>	chr10	10q24.3	Spastic paraplegia 45 autosomal recessive	613162
<i>NT5C3A</i>	chr7	7p15-p14	Anemia hemolytic due to UMPH1 deficiency	266120
<i>NT5E</i>	chr6	6q14-q21	Calcification of joints and arteries	211800
<i>NTHL1</i>	chr16	16p13.3-p13.2	Familial adenomatous polyposis 3	616415
<i>NTRK1</i>	chr1	1q21-q22	Insensitivity to pain congenital with anhidrosis	256800
<i>NUBPL</i>	chr14	14q12	Mitochondrial complex I deficiency nuclear type 21	618242
<i>NUP107</i>	chr12	12q15	Galloway-Mowat syndrome 7	618348
<i>NUP107</i>	chr12	12q15	Ovarian dysgenesis 6	618078
<i>NUP107</i>	chr12	12q15	Nephrotic syndrome type 11	616730
<i>NUP155</i>	chr5	5p13	Atrial fibrillation 15	615770
<i>NUP214</i>	chr9	9q34.1	Encephalopathy acute infection-induced susceptibility to 9	618426
<i>NUP62</i>	chr19	19q13.33	Striatonigral degeneration infantile	271930
<i>NXN</i>	chr17	17p13.3	Robinow syndrome autosomal recessive 2	618529
<i>NYX</i>	chrX	Xp11.4	Night blindness congenital stationary (complete) 1A X-linked	310500
<i>OAT</i>	chr10	10q26	Gyrate atrophy of choroid and retina with or without ornithinemia	258870
<i>OBSL1</i>	chr2	2q35	3-M syndrome 2	612921
<i>OCA2</i>	chr15	15q11.2-q12	Skin/hair/eye pigmentation 1 blue/nonblue eyes	227220
<i>OCA2</i>	chr15	15q11.2-q12	Skin/hair/eye pigmentation 1 blond/brown hair	227220
<i>OCA2</i>	chr15	15q11.2-q12	Albinism oculocutaneous type II	203200
<i>OCA2</i>	chr15	15q11.2-q12	Albinism brown oculocutaneous	203200

<i>OCLN</i>	chr5	5q13.1	Pseudo-TORCH syndrome 1	251290
<i>OCRL</i>	chrX	Xq26.1	Lowe syndrome	309000
<i>OCRL</i>	chrX	Xq26.1	Dent disease 2	300555
<i>ODAPH</i>	chr4	4q21.1	Amelogenesis imperfecta type IIA4	614832
<i>OFD1</i>	chrX	Xp22.3-p22.2	Retinitis pigmentosa 23	300424
<i>OFD1</i>	chrX	Xp22.3-p22.2	Joubert syndrome 10	300804
<i>OFD1</i>	chrX	Xp22.3-p22.2	Simpson-Golabi-Behmel syndrome type 2	300209
<i>OGDH</i>	chr7	7p14-p13	Alpha-ketoglutarate dehydrogenase deficiency	203740
<i>OGT</i>	chrX	Xq13	Mental retardation X-linked 106	300997
<i>OPA1</i>	chr3	3q28-q29	Behr syndrome	210000
<i>OPA1</i>	chr3	3q28-q29	Mitochondrial DNA depletion syndrome 14 (encephalocardiomyopathic type)	616896
<i>OPA3</i>	chr19	19q13.2-q13.3	3-methylglutaconic aciduria type III	258501
<i>OPHN1</i>	chrX	Xq12	Mental retardation X-linked with cerebellar hypoplasia and distinctive facial appearance	300486
<i>OPLAH</i>	chr8	8q24.3	5-oxoprolinase deficiency	260005
<i>OPN1LW</i>	chrX	Xq28	Blue cone monochromacy	303700
<i>OPN1LW</i>	chrX	Xq28	Colorblindness protan	303900
<i>OPN1MW</i>	chrX	Xq28	Colorblindness deutan	303800
<i>OPN1MW</i>	chrX	Xq28	Blue cone monochromacy	303700
<i>ORAI1</i>	chr12	12q24	Immunodeficiency 9	612782
<i>ORC1</i>	chr1	1p32	Meier-Gorlin syndrome 1	224690
<i>ORC4</i>	chr2	2q22-q23	Meier-Gorlin syndrome 2	613800
<i>ORC6</i>	chr16	16q12	Meier-Gorlin syndrome 3	613803
<i>OSTM1</i>	chr6	6q21	Osteopetrosis autosomal recessive 5	259720
<i>OTC</i>	chrX	Xp21.1	Ornithine transcarbamylase deficiency	311250
<i>OTOA</i>	chr16	16p12.2	Deafness autosomal recessive 22	607039
<i>OTOF</i>	chr2	2p23-p22	Auditory neuropathy autosomal recessive 1	601071
<i>OTOF</i>	chr2	2p23-p22	Deafness autosomal recessive 9	601071
<i>OTOG</i>	chr11	11p14.3	Deafness autosomal recessive 18B	614945
<i>OTOGL</i>	chr12	12q21.31	Deafness autosomal recessive 84B	614944
<i>P2RY12</i>	chr3	3q24-q25	Bleeding disorder platelet-type 8	609821
<i>P3H2</i>	chr3	3q29	Myopia high with cataract and vitreoretinal degeneration	614292
<i>PADI6</i>	chr1	1p36.13	Preimplantation embryonic lethality 2	617234
<i>PAH</i>	chr12	12q24.1	Hyperphenylalaninemia non-PKU mild	261600
<i>PAH</i>	chr12	12q24.1	Phenylketonuria	261600
<i>PAK3</i>	chrX	Xq23	Mental retardation X-linked 30/47	300558
<i>PAM16</i>	chr16	16p13.3	Spondylometaphyseal dysplasia Megarbane-Dagher-Melike type	613320
<i>PANK2</i>	chr20	20p13-p12.3	HARP syndrome	607236
<i>PANK2</i>	chr20	20p13-p12.3	Neurodegeneration with brain iron accumulation 1	234200
<i>PAPSS2</i>	chr10	10q22-q24	Brachyolmia 4 with mild epiphyseal and metaphyseal changes	612847
<i>PARK7</i>	chr1	1p36	Parkinson disease 7 autosomal recessive early-onset	606324
<i>PARN</i>	chr16	16p13.12	Dyskeratosis congenita autosomal recessive 6	616353
<i>PARS2</i>	chr1	1p32.2	Epileptic encephalopathy early infantile 75	618437

<i>PAX1</i>	chr20	20p11.2	Otofaciocervical syndrome 2	615560
<i>PAX3</i>	chr2	2q36.1	Waardenburg syndrome type 3	148820
<i>PAX4</i>	chr7	7q32	Diabetes mellitus ketosis-prone susceptibility to	612227
<i>PAX7</i>	chr1	1p36.2-p36.12	Myopathy congenital progressive with scoliosis	618578
<i>PC</i>	chr11	11q13.4-q13.5	Pyruvate carboxylase deficiency	266150
<i>PCBD1</i>	chr10	10q22	Hyperphenylalaninemia BH4-deficient D	264070
<i>PCCA</i>	chr13	13q32	Propionicacidemia	606054
<i>PCCB</i>	chr3	3q21-q22	Propionicacidemia	606054
<i>PCDH15</i>	chr10	10q21-q22	Usher syndrome type 1D/F digenic	601067
<i>PCDH15</i>	chr10	10q21-q22	Usher syndrome type 1F	602083
<i>PCDH15</i>	chr10	10q21-q22	Deafness autosomal recessive 23	609533
<i>PCK1</i>	chr20	20q13.31	Phosphoenolpyruvate carboxykinase deficiency cytosolic	261680
<i>PCK2</i>	chr14	14q11.2-q12	PEPCK deficiency mitochondrial	261650
<i>PCLO</i>	chr7	7q11.23-q21.1	Pontocerebellar hypoplasia type 3	608027
<i>PCNA</i>	chr20	20p12	Ataxia-telangiectasia-like disorder 2	615919
<i>PCNT</i>	chr21	21q22.3	Microcephalic osteodysplastic primordial dwarfism type II	210720
<i>PCSK1</i>	chr5	5q15-q21	Obesity with impaired prohormone processing	600955
<i>PCYT1A</i>	chr3	3q29	Spondylometaphyseal dysplasia with cone-rod dystrophy	608940
<i>PDE10A</i>	chr6	6q27	Dyskinesia limb and orofacial infantile-onset	616921
<i>PDE6B</i>	chr4	4p16.3	Retinitis pigmentosa-40	613801
<i>PDE6C</i>	chr10	10q24	Cone dystrophy 4	613093
<i>PDE6D</i>	chr2	2q36-q37	Joubert syndrome 22	615665
<i>PDE6G</i>	chr17	17q25	Retinitis pigmentosa 57	613582
<i>PDE6H</i>	chr12	12p13	Retinal cone dystrophy 3	610024
<i>PDE6H</i>	chr12	12p13	Achromatopsia 6	610024
<i>PDHX</i>	chr11	11p13	Lacticacidemia due to PDX1 deficiency	245349
<i>PDP1</i>	chr8	8q22.1	Pyruvate dehydrogenase phosphatase deficiency	608782
<i>PDSS1</i>	chr10	10p12.1	Coenzyme Q10 deficiency primary 2	614651
<i>PDSS2</i>	chr6	6q21	Coenzyme Q10 deficiency primary 3	614652
<i>PDX1</i>	chr13	13q12.1	Pancreatic agenesis 1	260370
<i>PDXK</i>	chr21	21q22.3	Neuropathy hereditary motor and sensory type VIC with optic atrophy	618511
<i>PDZD7</i>	chr10	10q24.3	Usher syndrome type IIC GPR98/PDZD7 digenic	605472
<i>PDZD7</i>	chr10	10q24.3	Deafness autosomal recessive 57	618003
<i>PDZD7</i>	chr10	10q24.3	Retinal disease in Usher syndrome type IIA modifier of	276901
<i>PEPD</i>	chr19	19cen-q13.11	Prolidase deficiency	170100
<i>PET100</i>	chr19	19p13.2	Mitochondrial complex IV deficiency	220110
<i>PEX1</i>	chr7	7q21-q22	Heimler syndrome 1	234580
<i>PEX1</i>	chr7	7q21-q22	Peroxisome biogenesis disorder 1B (NALD/IRD)	601539
<i>PEX1</i>	chr7	7q21-q22	Peroxisome biogenesis disorder 1A (Zellweger)	214100
<i>PEX10</i>	chr1	1p36.32	Peroxisome biogenesis disorder 6B	614871
<i>PEX10</i>	chr1	1p36.32	Peroxisome biogenesis disorder 6A (Zellweger)	614870
<i>PEX11B</i>	chr1	1q21.1	Peroxisome biogenesis disorder 14B	614920

<i>PEX12</i>	chr17	17q12	Peroxisome biogenesis disorder 3A (Zellweger)	614859
<i>PEX12</i>	chr17	17q12	Peroxisome biogenesis disorder 3B	266510
<i>PEX13</i>	chr2	2p15	Peroxisome biogenesis disorder 11A (Zellweger)	614883
<i>PEX13</i>	chr2	2p15	Peroxisome biogenesis disorder 11B	614885
<i>PEX14</i>	chr1	1p36.2	Peroxisome biogenesis disorder 13A (Zellweger)	614887
<i>PEX16</i>	chr11	11p12-p11.2	Peroxisome biogenesis disorder 8A (Zellweger)	614876
<i>PEX16</i>	chr11	11p12-p11.2	Peroxisome biogenesis disorder 8B	614877
<i>PEX19</i>	chr1	1q22	Peroxisome biogenesis disorder 12A (Zellweger)	614886
<i>PEX2</i>	chr8	8q21.1	Peroxisome biogenesis disorder 5A (Zellweger)	614866
<i>PEX2</i>	chr8	8q21.1	Peroxisome biogenesis disorder 5B	614867
<i>PEX26</i>	chr22	22q11.21	Peroxisome biogenesis disorder 7A (Zellweger)	614872
<i>PEX26</i>	chr22	22q11.21	Peroxisome biogenesis disorder 7B	614873
<i>PEX3</i>	chr6	6q24.2	Peroxisome biogenesis disorder 10A (Zellweger)	614882
<i>PEX3</i>	chr6	6q24.2	Peroxisome biogenesis disorder 10B	617370
<i>PEX5</i>	chr12	12p13.3	Peroxisome biogenesis disorder 2B	202370
<i>PEX5</i>	chr12	12p13.3	Rhizomelic chondrodysplasia punctata type 5	616716
<i>PEX5</i>	chr12	12p13.3	Peroxisome biogenesis disorder 2A (Zellweger)	214110
<i>PEX6</i>	chr6	6p21.1	Peroxisome biogenesis disorder 4B	614863
<i>PEX6</i>	chr6	6p21.1	Heimler syndrome 2	616617
<i>PEX6</i>	chr6	6p21.1	Peroxisome biogenesis disorder 4A (Zellweger)	614862
<i>PEX7</i>	chr6	6q23.3	Peroxisome biogenesis disorder 9B	614879
<i>PEX7</i>	chr6	6q23.3	Rhizomelic chondrodysplasia punctata type 1	215100
<i>PFKM</i>	chr12	12q13.3	Glycogen storage disease VII	232800
<i>PGAM2</i>	chr7	7p13-p12.3	Glycogen storage disease X	261670
<i>PGAP1</i>	chr2	2q33.1	Mental retardation autosomal recessive 42	615802
<i>PGAP2</i>	chr11	11p15.5	Hyperphosphatasia with mental retardation syndrome 3	614207
<i>PGAP3</i>	chr17	17q12	Hyperphosphatasia with mental retardation syndrome 4	615716
<i>PGK1</i>	chrX	Xq13	Phosphoglycerate kinase 1 deficiency	300653
<i>PGM1</i>	chr1	1p31	Congenital disorder of glycosylation type It	614921
<i>PGM3</i>	chr6	6q12	Immunodeficiency 23	615816
<i>PGR</i>	chr11	11q22	Progesterone resistance	264080
<i>PHC1</i>	chr12	12p13.31	Microcephaly 11 primary autosomal recessive	615414
<i>PHF6</i>	chrX	Xq26.3	Borjeson-Forsman-Lehmann syndrome	301900
<i>PHF8</i>	chrX	Xp11.2	Mental retardation syndrome X-linked Siderius type	300263
<i>PHGDH</i>	chr1	1p12	Neu-Laxova syndrome 1	256520
<i>PHGDH</i>	chr1	1p12	Phosphoglycerate dehydrogenase deficiency	601815
<i>PHKA1</i>	chrX	Xq13	Muscle glycogenosis	300559
<i>PHKA2</i>	chrX	Xp22.2-p22.1	Glycogen storage disease type IXa2	306000
<i>PHKA2</i>	chrX	Xp22.2-p22.1	Glycogen storage disease type IXa1	306000
<i>PHKB</i>	chr16	16q12-q13	Phosphorylase kinase deficiency of liver and muscle autosomal recessive	261750
<i>PHKG2</i>	chr16	16p12.1-p11.2	Glycogen storage disease IXc	613027
<i>PHOX2A</i>	chr11	11q13.3-q13.4	Fibrosis of extraocular muscles congenital 2	602078
<i>PHYH</i>	chr10	10pter-p11.2	Refsum disease	266500

<i>PI4KA</i>	chr22	22q11.21	Polymicrogyria perisylvian with cerebellar hypoplasia and arthrogryposis	616531
<i>PIBF1</i>	chr13	13q21-q22	Joubert syndrome 33	617767
<i>PIEZO1</i>	chr16	16q24.3	Lymphatic malformation 6	616843
<i>PIEZO2</i>	chr18	18p11.22	Arthrogryposis distal with impaired proprioception and touch	617146
<i>PIGA</i>	chrX	Xp22.1	Multiple congenital anomalies-hypotonia-seizures syndrome 2	300868
<i>PIGL</i>	chr17	17p12-p11.2	CHIME syndrome	280000
<i>PIGM</i>	chr1	1q23.2	Glycosylphosphatidylinositol deficiency	610293
<i>PIGN</i>	chr18	18q21.33	Multiple congenital anomalies-hypotonia-seizures syndrome 1	614080
<i>PIGO</i>	chr9	9p13	Hyperphosphatasia with mental retardation syndrome 2	614749
<i>PIGQ</i>	chr16	16p13.3	Epileptic encephalopathy early infantile 77	618548
<i>PIGT</i>	chr20	20q13.12	Multiple congenital anomalies-hypotonia-seizures syndrome 3	615398
<i>PIGV</i>	chr1	1p36.11	Hyperphosphatasia with mental retardation syndrome 1	239300
<i>PIGW</i>	chr17	17q12	Glycosylphosphatidylinositol biosynthesis defect 11	616025
<i>PIK3R1</i>	chr5	5q13	Agammaglobulinemia 7 autosomal recessive	615214
<i>PIK3R5</i>	chr17	17p13.1	Ataxia-oculomotor apraxia 3	615217
<i>PINK1</i>	chr1	1p36	Parkinson disease 6 early onset	605909
<i>PIP5K1C</i>	chr19	19p13.3	Lethal congenital contractural syndrome 3	611369
<i>PITX3</i>	chr10	10q25	Cataract 11 syndromic autosomal recessive	610623
<i>PITX3</i>	chr10	10q25	Cataract 11 multiple types	610623
<i>PJVK</i>	chr2	2q31.2	Deafness autosomal recessive 59	610220
<i>PKD1L1</i>	chr7	7p13-p12	Heterotaxy visceral 8 autosomal	617205
<i>PKHD1</i>	chr6	6p12.3-p12.2	Polycystic kidney disease 4 with or without hepatic disease	263200
<i>PKLR</i>	chr1	1q21	Pyruvate kinase deficiency	266200
<i>PKP1</i>	chr1	1q32	Ectodermal dysplasia/skin fragility syndrome	604536
<i>PLA2G4A</i>	chr1	1q25	Gastrointestinal ulceration recurrent with dysfunctional platelets	618372
<i>PLA2G5</i>	chr1	1p36-p34	Fleck retina familial benign	228980
<i>PLA2G6</i>	chr22	22q13.1	Infantile neuroaxonal dystrophy 1	256600
<i>PLA2G6</i>	chr22	22q13.1	Parkinson disease 14 autosomal recessive	612953
<i>PLA2G6</i>	chr22	22q13.1	Neurodegeneration with brain iron accumulation 2B	610217
<i>PLA2G7</i>	chr6	6p21.2-p12	Platelet-activating factor acetylhydrolase deficiency	614278
<i>PLCB1</i>	chr20	20p12	Epileptic encephalopathy early infantile 12	613722
<i>PLCB4</i>	chr20	20p12	Auriculocondylar syndrome 2	614669
<i>PLCD1</i>	chr3	3p22-p21.3	Nail disorder nonsyndromic congenital 3 (leukonychia)	151600
<i>PLCE1</i>	chr10	10q23	Nephrotic syndrome type 3	610725
<i>PLCZ1</i>	chr12	12p12.3	Spermatogenic failure 17	617214
<i>PLEC</i>	chr8	8q24	Muscular dystrophy limb-girdle autosomal recessive 17	613723
<i>PLEC</i>	chr8	8q24	Epidermolysis bullosa simplex with pyloric atresia	612138

<i>PLEC</i>	chr8	8q24	Epidermolysis bullosa simplex with muscular dystrophy	226670
<i>PLEC</i>	chr8	8q24	Epidermolysis bullosa simplex with nail dystrophy	616487
<i>PLEKHG5</i>	chr1	1p36	Spinal muscular atrophy distal autosomal recessive 4	611067
<i>PLEKHG5</i>	chr1	1p36	Charcot-Marie-Tooth disease recessive intermediate C	615376
<i>PLEKHM1</i>	chr17	17q21.3	Osteopetrosis autosomal recessive 6	611497
<i>PLG</i>	chr6	6q26	Dysplasminogenemia	217090
<i>PLG</i>	chr6	6q26	Plasminogen deficiency type I	217090
<i>PLK4</i>	chr4	4q27-q28	Microcephaly and chorioretinopathy autosomal recessive 2	616171
<i>PLOD1</i>	chr1	1p36.3-p36.2	Ehlers-Danlos syndrome kyphoscoliotic type 1	225400
<i>PLOD2</i>	chr3	3q23-q24	Bruck syndrome 2	609220
<i>PLOD3</i>	chr7	7q22	Lysyl hydroxylase 3 deficiency	612394
<i>PLP1</i>	chrX	Xq22	Pelizaeus-Merzbacher disease	312080
<i>PLP1</i>	chrX	Xq22	Spastic paraplegia 2 X-linked	312920
<i>PMM2</i>	chr16	16p13.3-p13.2	Congenital disorder of glycosylation type Ia	212065
<i>PMP22</i>	chr17	17p11.2	Dejerine-Sottas disease	145900
<i>PMPCA</i>	chr9	9q34.3	Spinocerebellar ataxia autosomal recessive 2	213200
<i>PMS2</i>	chr7	7p22	Mismatch repair cancer syndrome	276300
<i>PNKP</i>	chr19	19q13.4	Microcephaly seizures and developmental delay	613402
<i>PNKP</i>	chr19	19q13.4	Ataxia-oculomotor apraxia 4	616267
<i>PNKP</i>	chr19	19q13.4	Charcot-Marie-Tooth disease type 2B2	605589
<i>PNLIP</i>	chr10	10q26.1	Pancreatic lipase deficiency	614338
<i>PNP</i>	chr14	14q13.1	Immunodeficiency due to purine nucleoside phosphorylase deficiency	613179
<i>PNPLA1</i>	chr6	6p21.31	Ichthyosis congenital autosomal recessive 10	615024
<i>PNPLA2</i>	chr11	11p15.5	Neutral lipid storage disease with myopathy	610717
<i>PNPLA6</i>	chr19	19p13.3	Spastic paraplegia 39 autosomal recessive	612020
<i>PNPLA6</i>	chr19	19p13.3	Boucher-Neuhauser syndrome	215470
<i>PNPLA6</i>	chr19	19p13.3	Oliver-McFarlane syndrome	275400
<i>PNPLA6</i>	chr19	19p13.3	Laurence-Moon syndrome	245800
<i>PNPO</i>	chr17	17q21.32	Pyridoxamine 5'-phosphate oxidase deficiency	610090
<i>PNPT1</i>	chr2	2p16.1	Deafness autosomal recessive 70	614934
<i>PNPT1</i>	chr2	2p16.1	Combined oxidative phosphorylation deficiency 13	614932
<i>POC1A</i>	chr3	3p21.2	Short stature onychodysplasia facial dysmorphism and hypotrichosis	614813
<i>POC1B</i>	chr12	12q21.33	Cone-rod dystrophy 20	615973
<i>POF1B</i>	chrX	Xq21	Premature ovarian failure 2B	300604
<i>POGLUT1</i>	chr3	3q13.33	Muscular dystrophy limb-girdle autosomal recessive 21	617232
<i>POLA1</i>	chrX	Xp22.3-p21.1	Pigmentary disorder reticulate with systemic manifestations X-linked	301220
<i>POLA1</i>	chrX	Xp22.3-p21.1	Van Esch-O'Driscoll syndrome	301030
<i>POLE</i>	chr12	12q24.3	FILS syndrome	615139
<i>POLE</i>	chr12	12q24.3	IMAGE-I syndrome	618336
<i>POLG</i>	chr15	15q25	Mitochondrial DNA depletion syndrome 4B (MNGIE type)	613662

<i>POLG</i>	chr15	15q25	Mitochondrial recessive ataxia syndrome (includes SANDO and SCAE)	607459
<i>POLG</i>	chr15	15q25	Mitochondrial DNA depletion syndrome 4A (Alpers type)	203700
<i>POLG</i>	chr15	15q25	Progressive external ophthalmoplegia autosomal recessive 1	258450
<i>POLG2</i>	chr17	17q23-q24	Mitochondrial DNA depletion syndrome 16 (hepatic type)	618528
<i>POLH</i>	chr6	6p21.1-p12	Xeroderma pigmentosum variant type	278750
<i>POLR1C</i>	chr6	6p22.3	Treacher Collins syndrome 3	248390
<i>POLR1C</i>	chr6	6p22.3	Leukodystrophy hypomyelinating 11	616494
<i>POLR1D</i>	chr13	13q12.2	Treacher Collins syndrome 2	613717
<i>POLR3A</i>	chr10	10q22.3	Leukodystrophy hypomyelinating 7 with or without oligodontia and/or hypogonadotropic hypogonadism	607694
<i>POLR3A</i>	chr10	10q22.3	Wiedemann-Rautenstrauch syndrome	264090
<i>POLR3B</i>	chr12	12q23.3	Leukodystrophy hypomyelinating 8 with or without oligodontia and/or hypogonadotropic hypogonadism	614381
<i>POMC</i>	chr2	2p23.3	Obesity early-onset susceptibility to	601665
<i>POMC</i>	chr2	2p23.3	Obesity adrenal insufficiency and red hair due to POMC deficiency	609734
<i>POMGNT1</i>	chr1	1p34-p33	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation) type B 3	613151
<i>POMGNT1</i>	chr1	1p34-p33	Muscular dystrophy-dystroglycanopathy (limb-girdle) type C 3	613157
<i>POMGNT1</i>	chr1	1p34-p33	Retinitis pigmentosa 76	617123
<i>POMGNT1</i>	chr1	1p34-p33	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies) type A 3	253280
<i>POMGNT2</i>	chr3	3p22.1	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies) type A 8	614830
<i>POMGNT2</i>	chr3	3p22.1	Muscular dystrophy-dystroglycanopathy (limb-girdle) type C 8	618135
<i>POMK</i>	chr8	8p11	?Muscular dystrophy-dystroglycanopathy (limb-girdle) type C 12	616094
<i>POMK</i>	chr8	8p11	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies) type A 12	615249
<i>POMP</i>	chr13	13q12.3	Keratosis linearis with ichthyosis congenita and sclerosing keratoderma	601952
<i>POMT1</i>	chr9	9q34.1	Muscular dystrophy-dystroglycanopathy (limb-girdle) type C 1	609308
<i>POMT1</i>	chr9	9q34.1	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies) type A 1	236670
<i>POMT1</i>	chr9	9q34.1	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation) type B 1	613155
<i>POMT2</i>	chr14	14q24.3	Muscular dystrophy-dystroglycanopathy (limb-girdle) type C 2	613158
<i>POMT2</i>	chr14	14q24.3	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies) type A 2	613150

<i>POMT2</i>	chr14	14q24.3	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation) type B 2	613156
<i>POP1</i>	chr8	8q22	Anauxetic dysplasia 2	617396
<i>POR</i>	chr7	7q11.2	Antley-Bixler syndrome with genital anomalies and disordered steroidogenesis	201750
<i>POU1F1</i>	chr3	3p11	Pituitary hormone deficiency combined 1	613038
<i>POU3F4</i>	chrX	Xq21.1	Deafness X-linked 2	304400
<i>PPARG</i>	chr3	3p25	Obesity severe	601665
<i>PPIB</i>	chr15	15q21-q22	Osteogenesis imperfecta type IX	259440
<i>PPP1R15B</i>	chr1	1q32.1	Microcephaly short stature and impaired glucose metabolism 2	616817
<i>PPT1</i>	chr1	1p32	Ceroid lipofuscinosis neuronal 1	256730
<i>PQBP1</i>	chrX	Xp11.23	Renpenning syndrome	309500
<i>PRDM5</i>	chr4	4q27	Brittle cornea syndrome 2	614170
<i>PREPL</i>	chr2	2p21	Myasthenic syndrome congenital 22	616224
<i>PRF1</i>	chr10	10q22	Hemophagocytic lymphohistiocytosis familial 2	603553
<i>PRG4</i>	chr1	1q24-q25	Campodactyly-arthropathy-coxa vara-pericarditis syndrome	208250
<i>PRICKLE1</i>	chr12	12q12	Epilepsy progressive myoclonic 1B	612437
<i>PRKACG</i>	chr9	9q21.11	Bleeding disorder platelet-type 19	616176
<i>PRKCD</i>	chr3	3p	Autoimmune lymphoproliferative syndrome type III	615559
<i>PRKDC</i>	chr8	8q11	Immunodeficiency 26 with or without neurologic abnormalities	615966
<i>PRKN</i>	chr6	6q25.2-q27	Parkinson disease juvenile type 2	600116
<i>PRKRA</i>	chr2	2q31.3	Dystonia 16	612067
<i>PRLR</i>	chr5	5p13.2	Hyperprolactinemia	615555
<i>PRMT7</i>	chr16	16q22.1	Short stature brachydactyly intellectual developmental disability and seizures	617157
<i>PROC</i>	chr2	2q13-q14	Thrombophilia due to protein C deficiency autosomal recessive	612304
<i>PRODH</i>	chr22	22q11.2	Hyperprolinemia type I	239500
<i>PROM1</i>	chr4	4p15.3	Retinitis pigmentosa 41	612095
<i>PROM1</i>	chr4	4p15.3	Cone-rod dystrophy 12	612657
<i>PROP1</i>	chr5	5q	Pituitary hormone deficiency combined 2	262600
<i>PROS1</i>	chr3	3q11.2	Thrombophilia due to protein S deficiency autosomal recessive	614514
<i>PRPH</i>	chr12	12q12-q13	Amyotrophic lateral sclerosis susceptibility to	105400
<i>PRPH2</i>	chr6	6p21.1-cen	Retinitis punctata albescens	136880
<i>PRPH2</i>	chr6	6p21.1-cen	Retinitis pigmentosa 7 and digenic form	608133
<i>PRPH2</i>	chr6	6p21.1-cen	Leber congenital amaurosis 18	608133
<i>PRPS1</i>	chrX	Xq22-q24	Charcot-Marie-Tooth disease X-linked recessive 5	311070
<i>PRPS1</i>	chrX	Xq22-q24	Phosphoribosylpyrophosphate synthetase superactivity	300661
<i>PRPS1</i>	chrX	Xq22-q24	Deafness X-linked 1	304500
<i>PRPS1</i>	chrX	Xq22-q24	Arts syndrome	301835
<i>PRPS1</i>	chrX	Xq22-q24	Gout PRPS-related	300661
<i>PRRX1</i>	chr1	1q24	Agnathia-otocephaly complex	202650
<i>PRSS12</i>	chr4	4q25-q26	Mental retardation autosomal recessive 1	249500
<i>PRSS56</i>	chr2	2q37.1	Microphthalmia isolated 6	613517

<i>PRX</i>	chr19	19q13.1-q13.2	Charcot-Marie-Tooth disease type 4F	614895
<i>PRX</i>	chr19	19q13.1-q13.2	Dejerine-Sottas disease	145900
<i>PSAP</i>	chr10	10q22.1	Krabbe disease atypical	611722
<i>PSAP</i>	chr10	10q22.1	Combined SAP deficiency	611721
<i>PSAP</i>	chr10	10q22.1	Metachromatic leukodystrophy due to SAP-b deficiency	249900
<i>PSAT1</i>	chr9	9q21.31	Neu-Laxova syndrome 2	616038
<i>PSAT1</i>	chr9	9q21.31	Phosphoserine aminotransferase deficiency	610992
<i>PSMB8</i>	chr6	6p21.3	Proteasome-associated autoinflammatory syndrome 1 and digenic forms	256040
<i>PSMB9</i>	chr6	6p21.3	Proteasome-associated autoinflammatory syndrome 3 digenic	617591
<i>PSMC3IP</i>	chr17	17q21.2	Ovarian dysgenesis 3	614324
<i>PSPH</i>	chr7	7p11.2	Phosphoserine phosphatase deficiency	614023
<i>PTCHD1</i>	chrX	Xp22.11	Autism susceptibility to X-linked 4	300830
<i>PTF1A</i>	chr10	10p12.3	Pancreatic and cerebellar agenesis	609069
<i>PTF1A</i>	chr10	10p12.3	Pancreatic agenesis 2	615935
<i>PTGER2</i>	chr14	14q22	Asthma aspirin-induced susceptibility to	208550
<i>PTH</i>	chr11	11p15.3-p15.1	Hypoparathyroidism familial isolated 1	146200
<i>PTH1R</i>	chr3	3p22-p21.1	Eiken syndrome	600002
<i>PTH1R</i>	chr3	3p22-p21.1	Chondrodysplasia Blomstrand type	215045
<i>PTPN14</i>	chr1	1q32	Choanal atresia and lymphedema	613611
<i>PTPN22</i>	chr1	1p13	Diabetes type 1 susceptibility to	222100
<i>PTPN23</i>	chr3	3p21.3	Neurodevelopmental disorder and structural brain anomalies with or without seizures and spasticity	618890
<i>PTPRC</i>	chr1	1q31-q32	Severe combined immunodeficiency T cell-negative B-cell/natural killer-cell positive	608971
<i>PTPRF</i>	chr1	1p32	Breasts and/or nipples aplasia or hypoplasia of 2	616001
<i>PTPRO</i>	chr12	12p13-p12	Nephrotic syndrome type 6	614196
<i>PTPRQ</i>	chr12	12q21.2	Deafness autosomal recessive 84A	613391
<i>PTRH2</i>	chr17	17q23.1	Infantile-onset multisystem neurologic endocrine and pancreatic disease	616263
<i>PTS</i>	chr11	11q22.3-q23.3	Hyperphenylalaninemia BH4-deficient A	261640
<i>PUS1</i>	chr12	12q24.33	Myopathy lactic acidosis and sideroblastic anemia 1	600462
<i>PXDN</i>	chr2	2p25.3	Anterior segment dysgenesis 7 with sclerocornea	269400
<i>PYCR1</i>	chr17	17q25.3	Cutis laxa autosomal recessive type IIB	612940
<i>PYCR2</i>	chr1	1q42.13	Leukodystrophy hypomyelinating 10	616420
<i>PYGL</i>	chr14	14q22.1	Glycogen storage disease VI	232700
<i>PYGM</i>	chr11	11q13	McArdle disease	232600
<i>QDPR</i>	chr4	4p15.31	Hyperphenylalaninemia BH4-deficient C	261630
<i>RAB18</i>	chr10	10p12.1	Warburg micro syndrome 3	614222
<i>RAB23</i>	chr6	6p11	Carpenter syndrome	201000
<i>RAB27A</i>	chr15	15q21	Griscelli syndrome type 2	607624
<i>RAB28</i>	chr4	4p15.33	Cone-rod dystrophy 18	615374
<i>RAB33B</i>	chr4	4q31.1	Smith-McCort dysplasia 2	615222

<i>RAB39B</i>	chrX	Xq28	Waisman syndrome	311510
<i>RAB39B</i>	chrX	Xq28	Mental retardation X-linked 72	300271
<i>RAB3GAP1</i>	chr2	2q21.3	Warburg micro syndrome 1	600118
<i>RAB3GAP2</i>	chr1	1q41	Warburg micro syndrome 2	614225
<i>RAB3GAP2</i>	chr1	1q41	Martsolf syndrome	212720
<i>RAD21</i>	chr8	8q24	Mungan syndrome	611376
<i>RAD51C</i>	chr17	17q22	Fanconi anemia complementation group O	613390
<i>RAG1</i>	chr11	11p13	Omenn syndrome	603554
<i>RAG1</i>	chr11	11p13	Severe combined immunodeficiency B cell-negative	601457
<i>RAG1</i>	chr11	11p13	Combined cellular and humoral immune defects with granulomas	233650
<i>RAG2</i>	chr11	11p13	Severe combined immunodeficiency B cell-negative	601457
<i>RAG2</i>	chr11	11p13	Combined cellular and humoral immune defects with granulomas	233650
<i>RAG2</i>	chr11	11p13	Omenn syndrome	603554
<i>RALGAPA1</i>	chr14	14q13.2	Neurodevelopmental disorder with hypotonia neonatal respiratory insufficiency and thermoregulation	618797
<i>RAPSN</i>	chr11	11p11.2-p11.1	Fetal akinesia deformation sequence 2	618388
<i>RAPSN</i>	chr11	11p11.2-p11.1	Myasthenic syndrome congenital 11 associated with acetylcholine receptor deficiency	616326
<i>RARB</i>	chr3	3p24	Microphthalmia syndromic 12	615524
<i>RARS2</i>	chr6	6q16.1	Pontocerebellar hypoplasia type 6	611523
<i>RASGRP1</i>	chr15	15q15	Immunodeficiency 64	618534
<i>RASGRP2</i>	chr11	11q13	Bleeding disorder platelet-type 18	615888
<i>RAX</i>	chr18	18q21.3	Microphthalmia isolated 3	611038
<i>RBBP8</i>	chr18	18q11.2	Jawad syndrome	251255
<i>RBBP8</i>	chr18	18q11.2	Seckel syndrome 2	606744
<i>RBCK1</i>	chr20	20p13	Polyglucosan body myopathy 1 with or without immunodeficiency	615895
<i>RBM10</i>	chrX	Xp11.23	TARP syndrome	311900
<i>RBM28</i>	chr7	7q32.1	Alopecia neurologic defects and endocrinopathy syndrome	612079
<i>RBM8A</i>	chr1	1q12	Thrombocytopenia-absent radius syndrome	274000
<i>RBP3</i>	chr10	10q11.2	Retinitis pigmentosa 66	615233
<i>RBP4</i>	chr10	10q24	Retinal dystrophy iris coloboma and comedogenic acne syndrome	615147
<i>RCBTB1</i>	chr13	13q14	Retinal dystrophy with or without extraocular anomalies	617175
<i>RD3</i>	chr1	1q32.3	Leber congenital amaurosis 12	610612
<i>RDH11</i>	chr14	14q23.3	Retinal dystrophy juvenile cataracts and short stature syndrome	616108
<i>RDH12</i>	chr14	14q23.3	Leber congenital amaurosis 13	612712
<i>RDH5</i>	chr12	12q13-q14	Fundus albipunctatus	136880
<i>RDX</i>	chr11	11q23	Deafness autosomal recessive 24	611022
<i>RECQL4</i>	chr8	8q24.3	RAPADILINO syndrome	266280
<i>RECQL4</i>	chr8	8q24.3	Baller-Gerold syndrome	218600
<i>RECQL4</i>	chr8	8q24.3	Rothmund-Thomson syndrome type 2	268400
<i>REEP2</i>	chr5	5q31	Spastic paraplegia 72 autosomal dominant	615625

<i>REEP2</i>	chr5	5q31	Spastic paraplegia 72 autosomal recessive	615625
<i>RELN</i>	chr7	7q22	Lissencephaly 2 (Norman-Roberts type)	257320
<i>REN</i>	chr1	1q32	Renal tubular dysgenesis	267430
<i>RETREG1</i>	chr5	5p15.1	Neuropathy hereditary sensory and autonomic type IIB	613115
<i>RFC1</i>	chr4	4p14-p13	Cerebellar ataxia neuropathy and vestibular areflexia syndrome	614575
<i>RFT1</i>	chr3	3p21.1	Congenital disorder of glycosylation type In	612015
<i>RFX5</i>	chr1	1q21.1-q21.3	Bare lymphocyte syndrome type II complementation group C	209920
<i>RFX5</i>	chr1	1q21.1-q21.3	Bare lymphocyte syndrome type II complementation group E	209920
<i>RFX6</i>	chr6	6q22.2	Mitchell-Riley syndrome	615710
<i>RFXANK</i>	chr19	19p12	MHC class II deficiency complementation group B	209920
<i>RFXAP</i>	chr13	13q14	Bare lymphocyte syndrome type II complementation group D	209920
<i>RHO</i>	chr3	3q21-q24	Retinitis punctata albescens	136880
<i>RHO</i>	chr3	3q21-q24	Retinitis pigmentosa 4 autosomal dominant or recessive	613731
<i>RHOH</i>	chr4	4p13	Epidermodysplasia verruciformis susceptibility to 4	618307
<i>RIC1</i>	chr9	9p24.1	CATIFA syndrome	618761
<i>RIMS2</i>	chr8	8q22.3	Cone-rod synaptic disorder syndrome congenital nonprogressive	618970
<i>RIN2</i>	chr20	20p11.22	Macrocephaly alopecia cutis laxa and scoliosis	613075
<i>RINT1</i>	chr7	7q22.3	Infantile liver failure syndrome 3	618641
<i>RIPK4</i>	chr21	21q22.3	Popliteal pterygium syndrome Bartsocas-Papas type	263650
<i>RIPK4</i>	chr21	21q22.3	CHAND syndrome	214350
<i>RIPOR2</i>	chr6	6p22.3-p21.32	Deafness autosomal recessive 104	616515
<i>RLBP1</i>	chr15	15q26	Retinitis punctata albescens	136880
<i>RLBP1</i>	chr15	15q26	Bothnia retinal dystrophy	607475
<i>RLBP1</i>	chr15	15q26	Fundus albipunctatus	136880
<i>RMND1</i>	chr6	6q25	Combined oxidative phosphorylation deficiency 11	614922
<i>RMRP</i>	chr9	9p21-p12	Anauxetic dysplasia 1	607095
<i>RMRP</i>	chr9	9p21-p12	Cartilage-hair hypoplasia	250250
<i>RMRP</i>	chr9	9p21-p12	Metaphyseal dysplasia without hypotrichosis	250460
<i>RNASEH2A</i>	chr19	19p13.13	Aicardi-Goutieres syndrome 4	610333
<i>RNASEH2B</i>	chr13	13q14.1	Aicardi-Goutieres syndrome 2	610181
<i>RNASEH2C</i>	chr11	11q13.2	Aicardi-Goutieres syndrome 3	610329
<i>RNASET2</i>	chr6	6q27	Leukoencephalopathy cystic without megalencephaly	612951
<i>RNF168</i>	chr3	3q29	RIDDLE syndrome	611943
<i>RNF216</i>	chr7	7p22	Cerebellar ataxia and hypogonadotropic hypogonadism	212840
<i>RNU4ATAC</i>	chr2	2q14.2	Microcephalic osteodysplastic primordial dwarfism type I	210710
<i>RNU4ATAC</i>	chr2	2q14.2	Roifman syndrome	616651
<i>ROBO3</i>	chr11	11q23-q25	Gaze palsy familial horizontal with progressive scoliosis 1	607313

<i>ROGDI</i>	chr16	16p13.3	Kohlschutter-Tonz syndrome	226750
<i>ROM1</i>	chr11	11q13	Retinitis pigmentosa 7 digenic form	608133
<i>ROR2</i>	chr9	9q22	Brachydactyly type B1	113000
<i>ROR2</i>	chr9	9q22	Robinow syndrome autosomal recessive	268310
<i>RORC</i>	chr1	1q21	Immunodeficiency 42	616622
<i>RP1</i>	chr8	8q11-q13	Retinitis pigmentosa 1	180100
<i>RP1L1</i>	chr8	8p23	Retinitis pigmentosa 88	618826
<i>RP1L1</i>	chr8	8p23	Occult macular dystrophy	613587
<i>RPE65</i>	chr1	1p31	Leber congenital amaurosis 2	204100
<i>RPE65</i>	chr1	1p31	Retinitis pigmentosa 87 with choroidal involvement	618697
<i>RPE65</i>	chr1	1p31	Retinitis pigmentosa 20	613794
<i>RPGR</i>	chrX	Xp11.4	Cone-rod dystrophy X-linked 1	304020
<i>RPGR</i>	chrX	Xp11.4	Macular degeneration X-linked atrophic	300834
<i>RPGRIP1</i>	chr14	14q11	Leber congenital amaurosis 6	613826
<i>RPGRIP1L</i>	chr16	16q12.2	COACH syndrome	216360
<i>RPGRIP1L</i>	chr16	16q12.2	Meckel syndrome 5	611561
<i>RPGRIP1L</i>	chr16	16q12.2	Joubert syndrome 7	611560
<i>RPIA</i>	chr2	2p11.2	Ribose 5-phosphate isomerase deficiency	608611
<i>RPL10</i>	chrX	Xq28	Mental retardation X-linked syndromic 35	300998
<i>RRM2B</i>	chr8	8q23.1	Mitochondrial DNA depletion syndrome 8A (encephalomyopathic type with renal tubulopathy)	612075
<i>RRM2B</i>	chr8	8q23.1	Mitochondrial DNA depletion syndrome 8B (MNGIE type)	612075
<i>RS1</i>	chrX	Xp22.2-p22.1	Retinoschisis	312700
<i>RSPH1</i>	chr21	21q22.3	Ciliary dyskinesia primary 24	615481
<i>RSPO1</i>	chr1	1p34.3	Palmoplantar hyperkeratosis with squamous cell carcinoma of skin and sex reversal	610644
<i>RSPO1</i>	chr1	1p34.3	Palmoplantar hyperkeratosis and true hermaphroditism	610644
<i>RSPO4</i>	chr20	20p13	Anonychia congenita	206800
<i>RSRC1</i>	chr3	3q25.32	Intellectual developmental disorder autosomal recessive 70	618402
<i>RTEL1</i>	chr20	20q13.3	Dyskeratosis congenita autosomal recessive 5	615190
<i>RTEL1</i>	chr20	20q13.3	Dyskeratosis congenita autosomal dominant 4	615190
<i>RTTN</i>	chr18	18q22.2	Microcephaly short stature and polymicrogyria with seizures	614833
<i>RUBCN</i>	chr3	3q29	Spinocerebellar ataxia autosomal recessive 15	615705
<i>RYR1</i>	chr19	19q13.1	Central core disease	117000
<i>RYR1</i>	chr19	19q13.1	Minicore myopathy with external ophthalmoplegia	255320
<i>RYR1</i>	chr19	19q13.1	Neuromuscular disease congenital with uniform type 1 fiber	117000
<i>SACS</i>	chr13	13q12	Spastic ataxia Charlevoix-Saguenay type	270550
<i>SAG</i>	chr2	2q37.1	Oguchi disease-1	258100
<i>SALL2</i>	chr14	14q11.1-q12	Coloboma ocular autosomal recessive	216820
<i>SAMD9</i>	chr7	7q21	Tumoral calcinosis familial normophosphatemic	610455
<i>SAMHD1</i>	chr20	20q11.2	Aicardi-Goutieres syndrome 5	612952
<i>SAR1B</i>	chr5	5q31.1	Chylomicron retention disease	246700
<i>SARDH</i>	chr9	9q34.2	Sarcosinemia	268900

<i>SARS2</i>	chr19	19q13.2	Hyperuricemia pulmonary hypertension renal failure and alkalosis	613845
<i>SASH1</i>	chr6	6q24.3	Cancer alopecia pigment dyscrasia onychodystrophy and keratoderma	618373
<i>SASS6</i>	chr1	1p21.2	Microcephaly 14 primary autosomal recessive	616402
<i>SBDS</i>	chr7	7q11	Shwachman-Diamond syndrome	260400
<i>SBF1</i>	chr22	22q13.33	Charcot-Marie-Tooth disease type 4B3	615284
<i>SBF2</i>	chr11	11p15	Charcot-Marie-Tooth disease type 4B2	604563
<i>SC5D</i>	chr11	11q23.3	Lathosterolosis	607330
<i>SCAPER</i>	chr15	15q24	Intellectual developmental disorder and retinitis pigmentosa	618195
<i>SCARB2</i>	chr4	4q13-q21	Epilepsy progressive myoclonic 4 with or without renal failure	254900
<i>SCARF2</i>	chr22	22q11	Van den Ende-Gupta syndrome	600920
<i>SCN1B</i>	chr19	19q13.1	Epileptic encephalopathy early infantile 52	617350
<i>SCN4A</i>	chr17	17q23.1-q25.3	Myasthenic syndrome congenital 16	614198
<i>SCN5A</i>	chr3	3p21	Sick sinus syndrome 1	608567
<i>SCN5A</i>	chr3	3p21	Sudden infant death syndrome susceptibility to	272120
<i>SCN9A</i>	chr2	2q24	Neuropathy hereditary sensory and autonomic type IID	243000
<i>SCN9A</i>	chr2	2q24	Insensitivity to pain congenital	243000
<i>SCNN1A</i>	chr12	12p13	Pseudohypoaldosteronism type I	264350
<i>SCNN1B</i>	chr16	16p13-p12	Pseudohypoaldosteronism type I	264350
<i>SCNN1G</i>	chr16	16p13-p12	Pseudohypoaldosteronism type I	264350
<i>SCO1</i>	chr17	17p13-p12	Mitochondrial complex IV deficiency	220110
<i>SCO2</i>	chr22	22q13	Cardioencephalomyopathy fatal infantile due to cytochrome c oxidase deficiency 1	604377
<i>SCP2</i>	chr1	1p32	Leukoencephalopathy with dystonia and motor neuropathy	613724
<i>SDC3</i>	chr1	1pter-p22.3	Obesity association with	601665
<i>SDCCAG8</i>	chr1	1q43-q44	Bardet-Biedl syndrome 16	615993
<i>SDHA</i>	chr5	5p15	Cardiomyopathy dilated 1GG	613642
<i>SDHA</i>	chr5	5p15	Leigh syndrome	256000
<i>SDHA</i>	chr5	5p15	Mitochondrial respiratory chain complex II deficiency	252011
<i>SDHAF1</i>	chr19	19q12-q13.2	Mitochondrial complex II deficiency	252011
<i>SDHD</i>	chr11	11q23	Mitochondrial complex II deficiency	252011
<i>SEC23A</i>	chr14	14q21.1	Cranioleptoculosis dysplasia	607812
<i>SEC23B</i>	chr20	20p11.2	Dyserythropoietic anemia congenital type II	224100
<i>SEC24D</i>	chr4	4q26	Cole-Carpenter syndrome 2	616294
<i>SECISBP2</i>	chr9	9q22.2	Thyroid hormone metabolism abnormal	609698
<i>SELENON</i>	chr1	1p36-p35	Muscular dystrophy rigid spine 1	602771
<i>SELENON</i>	chr1	1p36-p35	Myopathy congenital with fiber-type disproportion	255310
<i>SEMA4A</i>	chr1	1q22	Cone-rod dystrophy 10	610283
<i>SEMA4A</i>	chr1	1q22	Retinitis pigmentosa 35	610282
<i>SEPSECS</i>	chr4	4p15.2	Pontocerebellar hypoplasia type 2D	613811
<i>SERAC1</i>	chr6	6q25.3	3-methylglutaconic aciduria with deafness encephalopathy and Leigh-like syndrome	614739

<i>SERPINA1</i>	chr14	14q32.1	Hemorrhagic diathesis due to antithrombin Pittsburgh	613490
<i>SERPINA1</i>	chr14	14q32.1	Emphysema-cirrhosis due to AAT deficiency	613490
<i>SERPINA1</i>	chr14	14q32.1	Emphysema due to AAT deficiency	613490
<i>SERPINA6</i>	chr14	14q32.1	Corticosteroid-binding globulin deficiency	611489
<i>SERPINB6</i>	chr6	6p25	Deafness autosomal recessive 91	613453
<i>SERPINB7</i>	chr18	18q21.3	Palmoplantar keratoderma Nagashima type	615598
<i>SERPINC1</i>	chr1	1q23-q25	Thrombophilia due to antithrombin III deficiency	613118
<i>SERPINE1</i>	chr7	7q21.3-q22	Plasminogen activator inhibitor-1 deficiency	613329
<i>SERPINF1</i>	chr17	17p13.3	Osteogenesis imperfecta type VI	613982
<i>SERPINF2</i>	chr17	17pter-p12	Alpha-2-plasmin inhibitor deficiency	262850
<i>SERPING1</i>	chr11	11q11-q13.1	Angioedema hereditary types I and II	106100
<i>SERPINH1</i>	chr11	11q13.5	Osteogenesis imperfecta type X	613848
<i>SERPINH1</i>	chr11	11q13.5	Preterm premature rupture of the membranes susceptibility to	610504
<i>SETX</i>	chr9	9q34	Spinocerebellar ataxia autosomal recessive with axonal neuropathy 2	606002
<i>SFTPB</i>	chr2	2p12-p11.2	Surfactant metabolism dysfunction pulmonary 1	265120
<i>SFXN4</i>	chr10	10q26.11	Combined oxidative phosphorylation deficiency 18	615578
<i>SGCA</i>	chr17	17q12-q21.33	Muscular dystrophy limb-girdle autosomal recessive 3	608099
<i>SGCB</i>	chr4	4q12	Muscular dystrophy limb-girdle autosomal recessive 4	604286
<i>SGCD</i>	chr5	5q33	Muscular dystrophy limb-girdle autosomal recessive 6	601287
<i>SGCG</i>	chr13	13q12	Muscular dystrophy limb-girdle autosomal recessive 5	253700
<i>SGO1</i>	chr3	3p24.3	Chronic atrial and intestinal dysrhythmia	616201
<i>SGSH</i>	chr17	17q25.3	Mucopolysaccharidosis type IIIA (Sanfilippo A)	252900
<i>SH2D1A</i>	chrX	Xq25	Lymphoproliferative syndrome X-linked 1	308240
<i>SH3PXD2B</i>	chr5	5q35.1	Frank-ter Haar syndrome	249420
<i>SH3TC2</i>	chr5	5q32	Charcot-Marie-Tooth disease type 4C	601596
<i>SHOX</i>	chrX	Xpter-p22.32	Langer mesomelic dysplasia	249700
<i>SI</i>	chr3	3q25-q26	Sucrase-isomaltase deficiency congenital	222900
<i>SIGMAR1</i>	chr9	9p13	Amyotrophic lateral sclerosis 16 juvenile	614373
<i>SIGMAR1</i>	chr9	9p13	Spinal muscular atrophy distal autosomal recessive 2	605726
<i>SIK3</i>	chr11	11q23.3	Spondyloepimetaphyseal dysplasia Krakow type	618162
<i>SIL1</i>	chr5	5q31	Marinesco-Sjogren syndrome	248800
<i>SIX6</i>	chr14	14q23	Optic disc anomalies with retinal and/or macular dystrophy	212550
<i>SKIV2L</i>	chr6	6p21	Trichohepatoenteric syndrome 2	614602
<i>SLC10A2</i>	chr13	13q33	Bile acid malabsorption primary	613291
<i>SLC11A2</i>	chr12	12q13	Anemia hypochromic microcytic with iron overload 1	206100
<i>SLC12A1</i>	chr15	15q15-q21.1	Bartter syndrome type 1	601678
<i>SLC12A3</i>	chr16	16q13	Gitelman syndrome	263800
<i>SLC12A5</i>	chr20	20q12-q13.1	Epileptic encephalopathy early infantile 34	616645
<i>SLC12A6</i>	chr15	15q13-q14	Agenesis of the corpus callosum with peripheral neuropathy	218000

<i>SLC13A5</i>	chr17	17p13-p12	Epileptic encephalopathy early infantile 25	615905
<i>SLC16A1</i>	chr1	1p13.2-p12	Monocarboxylate transporter 1 deficiency	616095
<i>SLC17A5</i>	chr6	6q14-q15	Sialic acid storage disorder infantile	269920
<i>SLC17A5</i>	chr6	6q14-q15	Salla disease	604369
<i>SLC19A2</i>	chr1	1q23.3	Thiamine-responsive megaloblastic anemia syndrome	249270
<i>SLC19A3</i>	chr2	2q36.3	Thiamine metabolism dysfunction syndrome 2 (biotin- or thiamine-responsive encephalopathy type 2)	607483
<i>SLC1A1</i>	chr9	9p24	Dicarboxylic aminoaciduria	222730
<i>SLC22A12</i>	chr11	11q13	Hypouricemia renal	220150
<i>SLC22A5</i>	chr5	5q31.1	Carnitine deficiency systemic primary	212140
<i>SLC24A1</i>	chr15	15q22	Night blindness congenital stationary (complete) 1D autosomal recessive	613830
<i>SLC24A4</i>	chr14	14q32	Skin/hair/eye pigmentation 6 blue/green eyes	210750
<i>SLC24A4</i>	chr14	14q32	Amelogenesis imperfecta type IIA5	615887
<i>SLC24A4</i>	chr14	14q32	Skin/hair/eye pigmentation 6 blond/brown hair	210750
<i>SLC24A5</i>	chr15	15q21.1	Skin/hair/eye pigmentation 4 fair/dark skin	113750
<i>SLC24A5</i>	chr15	15q21.1	Albinism oculocutaneous type VI	113750
<i>SLC25A1</i>	chr22	22q11	Myasthenic syndrome congenital 23 presynaptic	618197
<i>SLC25A1</i>	chr22	22q11	Combined D-2- and L-2-hydroxyglutaric aciduria	615182
<i>SLC25A12</i>	chr2	2q24	Epileptic encephalopathy early infantile 39	612949
<i>SLC25A13</i>	chr7	7q21.3	Citrullinemia adult-onset type II	603471
<i>SLC25A13</i>	chr7	7q21.3	Citrullinemia type II neonatal-onset	605814
<i>SLC25A15</i>	chr13	13q14	Hyperornithinemia-hyperammonemia-homocitrullinemia syndrome	238970
<i>SLC25A19</i>	chr17	17q25.3	Thiamine metabolism dysfunction syndrome 4 (progressive polyneuropathy type)	613710
<i>SLC25A19</i>	chr17	17q25.3	Microcephaly Amish type	607196
<i>SLC25A20</i>	chr3	3p21.31	Carnitine-acylcarnitine translocase deficiency	212138
<i>SLC25A21</i>	chr14	14q11.2	Mitochondrial DNA depletion syndrome 18	618811
<i>SLC25A22</i>	chr11	11p15.5	Epileptic encephalopathy early infantile 3	609304
<i>SLC25A38</i>	chr3	3p22.1	Anemia sideroblastic 2 pyridoxine-refractory	205950
<i>SLC25A4</i>	chr4	4q35	Mitochondrial DNA depletion syndrome 12B (cardiomyopathic type) AR	615418
<i>SLC25A46</i>	chr5	5q22.1	Neuropathy hereditary motor and sensory type VIB	616505
<i>SLC26A1</i>	chr4	4p16.3	Nephrolithiasis calcium oxalate	167030
<i>SLC26A2</i>	chr5	5q32-q33.1	De la Chapelle dysplasia	256050
<i>SLC26A2</i>	chr5	5q32-q33.1	Atelosteogenesis type II	256050
<i>SLC26A2</i>	chr5	5q32-q33.1	Diastrophic dysplasia broad bone-platyspondylic variant	222600
<i>SLC26A2</i>	chr5	5q32-q33.1	Diastrophic dysplasia	222600
<i>SLC26A2</i>	chr5	5q32-q33.1	Achondrogenesis Ib	600972
<i>SLC26A2</i>	chr5	5q32-q33.1	Epiphyseal dysplasia multiple 4	226900
<i>SLC26A3</i>	chr7	7q22-q31.1	Diarrhea 1 secretory chloride congenital	214700
<i>SLC26A4</i>	chr7	7q31	Deafness autosomal recessive 4 with enlarged vestibular aqueduct	600791
<i>SLC26A4</i>	chr7	7q31	Pendred syndrome	274600
<i>SLC26A5</i>	chr7	7q22.1	Deafness autosomal recessive 61	613865

<i>SLC28A1</i>	chr15	15q25-q26	Uridine-cytidineuria	618477
<i>SLC29A3</i>	chr10	10q22.1	Histiocytosis-lymphadenopathy plus syndrome	602782
<i>SLC2A1</i>	chr1	1p34.2	GLUT1 deficiency syndrome 1 infantile onset severe	606777
<i>SLC2A10</i>	chr20	20q13.1	Arterial tortuosity syndrome	208050
<i>SLC2A2</i>	chr3	3q26.1-q26.3	Fanconi-Bickel syndrome	227810
<i>SLC2A9</i>	chr4	4p16-p15.3	Uric acid concentration serum QTL 2	612076
<i>SLC2A9</i>	chr4	4p16-p15.3	Hypouricemia renal 2	612076
<i>SLC30A10</i>	chr1	1q41	Hypermanganesemia with dystonia 1	613280
<i>SLC33A1</i>	chr3	3q25.31	Congenital cataracts hearing loss and neurodegeneration	614482
<i>SLC34A1</i>	chr5	5q35	Hypercalcemia infantile 2	616963
<i>SLC34A1</i>	chr5	5q35	Fanconi renotubular syndrome 2	613388
<i>SLC34A2</i>	chr4	4p15.31-p15.2	Pulmonary alveolar microlithiasis	265100
<i>SLC34A3</i>	chr9	9q34	Hypophosphatemic rickets with hypercalciuria	241530
<i>SLC35A1</i>	chr6	6q15	Congenital disorder of glycosylation type II f	603585
<i>SLC35A3</i>	chr1	1p21	Arthrogryposis mental retardation and seizures	615553
<i>SLC35C1</i>	chr11	11p11.2	Congenital disorder of glycosylation type II c	266265
<i>SLC35D1</i>	chr1	1p32-p31	Schneckenbecken dysplasia	269250
<i>SLC36A2</i>	chr5	5q33.1	Iminoglycinuria digenic	242600
<i>SLC36A2</i>	chr5	5q33.1	Hyperglycinuria	138500
<i>SLC37A4</i>	chr11	11q23	Glycogen storage disease Ib	232220
<i>SLC38A8</i>	chr16	16q23.3	Foveal hypoplasia 2 with or without optic nerve misrouting and/or anterior segment dysgenesis	609218
<i>SLC39A13</i>	chr11	11p11.2	Ehlers-Danlos syndrome spondylodysplastic type 3	612350
<i>SLC39A4</i>	chr8	8q24.3	Acrodermatitis enteropathica	201100
<i>SLC3A1</i>	chr2	2p16.3	Cystinuria	220100
<i>SLC45A2</i>	chr5	5p13.3	Skin/hair/eye pigmentation 5 dark/fair skin	227240
<i>SLC45A2</i>	chr5	5p13.3	Skin/hair/eye pigmentation 5 black/nonblack hair	227240
<i>SLC45A2</i>	chr5	5p13.3	Albinism oculocutaneous type IV	606574
<i>SLC45A2</i>	chr5	5p13.3	Skin/hair/eye pigmentation 5 dark/light eyes	227240
<i>SLC46A1</i>	chr17	17q11.1	Folate malabsorption hereditary	229050
<i>SLC4A1</i>	chr17	17q21-q22	Renal tubular acidosis distal AR	611590
<i>SLC4A11</i>	chr20	20p13-p12	Corneal endothelial dystrophy autosomal recessive	217700
<i>SLC4A11</i>	chr20	20p13-p12	Corneal endothelial dystrophy and perceptive deafness	217400
<i>SLC4A4</i>	chr4	4q21	Renal tubular acidosis proximal with ocular abnormalities	604278
<i>SLC52A2</i>	chr8	8q24.3	Brown-Vialetto-Van Laere syndrome 2	614707
<i>SLC52A3</i>	chr20	20p13	Brown-Vialetto-Van Laere syndrome 1	211530
<i>SLC52A3</i>	chr20	20p13	Fazio-Londe disease	211500
<i>SLC5A1</i>	chr22	22q13.1	Glucose/galactose malabsorption	606824
<i>SLC5A2</i>	chr16	16p11.2	Renal glucosuria	233100
<i>SLC5A5</i>	chr19	19p13.2-p12	Thyroid dyshormonogenesis 1	274400
<i>SLC5A7</i>	chr2	2q12.3	Myasthenic syndrome congenital 20 presynaptic	617143
<i>SLC6A17</i>	chr1	1p13.3	Mental retardation autosomal recessive 48	616269

<i>SLC6A19</i>	chr5	5p15.33	Iminoglycinuria digenic	242600
<i>SLC6A19</i>	chr5	5p15.33	Hartnup disorder	234500
<i>SLC6A20</i>	chr3	3p21.3	Iminoglycinuria digenic	242600
<i>SLC6A3</i>	chr5	5p15.3	Parkinsonism-dystonia infantile 1	613135
<i>SLC6A5</i>	chr11	11p15.2-p15.1	Hyperekplexia 3	614618
<i>SLC6A8</i>	chrX	Xq28	Cerebral creatine deficiency syndrome 1	300352
<i>SLC6A9</i>	chr1	1p33	Glycine encephalopathy with normal serum glycine	617301
<i>SLC7A14</i>	chr3	3q26.2	Retinitis pigmentosa 68	615725
<i>SLC7A7</i>	chr14	14q11.2	Lysinuric protein intolerance	222700
<i>SLC7A9</i>	chr19	19q13.1	Cystinuria	220100
<i>SLC9A1</i>	chr1	1p36.1-p35	Lichtenstein-Knorr syndrome	616291
<i>SLC9A3</i>	chr5	5p15.3	Diarrhea 8 secretory sodium congenital	616868
<i>SLCO1B1</i>	chr12	12p12	Hyperbilirubinemia Rotor type digenic	237450
<i>SLCO1B3</i>	chr12	12p12.2	Hyperbilirubinemia Rotor type digenic	237450
<i>SLCO2A1</i>	chr3	3q21	Hypertrophic osteoarthropathy primary autosomal recessive 2	614441
<i>SLITRK6</i>	chr13	13q31	Deafness and myopia	221200
<i>SLURP1</i>	chr8	8qter	Meleda disease	248300
<i>SLX4</i>	chr16	16p13.3	Fanconi anemia complementation group P	613951
<i>SMARCAL1</i>	chr2	2q34-q36	Schimke immunoosseous dysplasia	242900
<i>SMIM1</i>	chr1	1p36	Blood group Vel system	615264
<i>SMN1</i>	chr5	5q12.2-q13.3	Spinal muscular atrophy-2	253550
<i>SMN1</i>	chr5	5q12.2-q13.3	Spinal muscular atrophy-3	253400
<i>SMN1</i>	chr5	5q12.2-q13.3	Spinal muscular atrophy-1	253300
<i>SMN1</i>	chr5	5q12.2-q13.3	Spinal muscular atrophy-4	271150
<i>SMN2</i>	chr5	5q12.2-q13.3	Spinal muscular atrophy type III modifier of	253400
<i>SMO</i>	chr7	7q31-q32	Pallister-Hall-like syndrome	241800
<i>SMOC1</i>	chr14	14q24.1	Microphthalmia with limb anomalies	206920
<i>SMOC2</i>	chr6	6q27	Dentin dysplasia type I with microdontia and misshapen teeth	125400
<i>SMPD1</i>	chr11	11p15.4-p15.1	Niemann-Pick disease type A	257200
<i>SMPD1</i>	chr11	11p15.4-p15.1	Niemann-Pick disease type B	607616
<i>SMS</i>	chrX	Xp22.1	Mental retardation X-linked Snyder-Robinson type	309583
<i>SNAI2</i>	chr8	8q11	Waardenburg syndrome type 2D	608890
<i>SNAP29</i>	chr22	22q11.2	Cerebral dysgenesis neuropathy ichthyosis and palmoplantar keratoderma syndrome	609528
<i>SNIP1</i>	chr1	1p34.3	Psychomotor retardation epilepsy and craniofacial dysmorphism	614501
<i>SNX10</i>	chr7	7p15.2	Osteopetrosis autosomal recessive 8	615085
<i>SNX14</i>	chr6	6q14.3	Spinocerebellar ataxia autosomal recessive 20	616354
<i>SOBP</i>	chr6	6q21	Mental retardation anterior maxillary protrusion and strabismus	613671
<i>SOD1</i>	chr21	21q22.1	Spastic tetraplegia and axial hypotonia progressive	618598
<i>SOD1</i>	chr21	21q22.1	Amyotrophic lateral sclerosis 1	105400
<i>SOHLH1</i>	chr9	9q34.3	Ovarian dysgenesis 5	617690

<i>SORD</i>	chr15	15q15.3	Sorbitol dehydrogenase deficiency with peripheral neuropathy	618912
<i>SOST</i>	chr17	17q12-q21	Sclerosteosis 1	269500
<i>SOST</i>	chr17	17q12-q21	Van Buchem disease	239100
<i>SOX18</i>	chr20	20q13.33	Hypotrichosis-lymphedema-telangiectasia syndrome	607823
<i>SP110</i>	chr2	2q37.1	Hepatic venoocclusive disease with immunodeficiency	235550
<i>SP7</i>	chr12	12q13.13	Osteogenesis imperfecta type XII	613849
<i>SPAG1</i>	chr8	8q22	Ciliary dyskinesia primary 28	615505
<i>SPART</i>	chr13	13q12.3	Troyer syndrome	275900
<i>SPATA16</i>	chr3	3q26.3	Spermatogenic failure 6	102530
<i>SPATA7</i>	chr14	14q31.3	Retinitis pigmentosa juvenile autosomal recessive	604232
<i>SPEF2</i>	chr5	5p13.2	Spermatogenic failure 43	618751
<i>SPEG</i>	chr2	2q35	Centronuclear myopathy 5	615959
<i>SPG11</i>	chr15	15q21.1	Charcot-Marie-Tooth disease axonal type 2X	616668
<i>SPG11</i>	chr15	15q21.1	Spastic paraplegia 11 autosomal recessive	604360
<i>SPG11</i>	chr15	15q21.1	Amyotrophic lateral sclerosis 5 juvenile	602099
<i>SPG21</i>	chr15	15q21-q22	Mast syndrome	248900
<i>SPG7</i>	chr16	16q24.3	Spastic paraplegia 7 autosomal recessive	607259
<i>SPINK1</i>	chr5	5q32	Fibrocalculous pancreatic diabetes susceptibility to	608189
<i>SPINK1</i>	chr5	5q32	Tropical calcific pancreatitis	608189
<i>SPINK5</i>	chr5	5q32	Netherton syndrome	256500
<i>SPINT2</i>	chr19	19q13.1	Diarrhea 3 secretory sodium congenital syndromic	270420
<i>SPR</i>	chr2	2p14-p12	Dystonia dopa-responsive due to sepiapterin reductase deficiency	612716
<i>SPRTN</i>	chr1	1q42.2	Ruijs-Aalfs syndrome	616200
<i>SPTA1</i>	chr1	1q21	Pyropoikilocytosis	266140
<i>SPTA1</i>	chr1	1q21	Spherocytosis type 3	270970
<i>SPTBN2</i>	chr11	11q13	Spinocerebellar ataxia autosomal recessive 14	615386
<i>SQSTM1</i>	chr5	5q35	Neurodegeneration with ataxia dystonia and gaze palsy childhood-onset	617145
<i>SRD5A2</i>	chr2	2p23	Pseudovaginal perineoscrotal hypospadias	264600
<i>SRD5A3</i>	chr4	4q12	Kahrizi syndrome	612713
<i>SRD5A3</i>	chr4	4q12	Congenital disorder of glycosylation type Iq	612379
<i>SSR4</i>	chrX	Xq28	Congenital disorder of glycosylation type Iy	300934
<i>ST14</i>	chr11	11q24-q25	Ichthyosis congenital autosomal recessive 11	602400
<i>ST3GAL3</i>	chr1	1p34.1	Mental retardation autosomal recessive 12	611090
<i>ST3GAL3</i>	chr1	1p34.1	Epileptic encephalopathy early infantile 15	615006
<i>ST3GAL5</i>	chr2	2p11.2	Salt and pepper developmental regression syndrome	609056
<i>STAC3</i>	chr12	12q13.3	Myopathy congenital Baily-Bloch	255995
<i>STAG2</i>	chrX	Xq25	Mullegama-Klein-Martinez syndrome	301022
<i>STAG2</i>	chrX	Xq25	Holoprosencephaly 13 X-linked	301043
<i>STAG3</i>	chr7	7q22	Premature ovarian failure 8	615723
<i>STAMBIP</i>	chr2	2p13.1	Microcephaly-capillary malformation syndrome	614261
<i>STAR</i>	chr8	8p11.2	Lipoid adrenal hyperplasia	201710
<i>STAT1</i>	chr2	2q32.2-q32.3	Immunodeficiency 31B mycobacterial and viral infections autosomal recessive	613796

<i>STAT2</i>	chr12	12q13.2	Immunodeficiency 44	616636
<i>STAT2</i>	chr12	12q13.2	Pseudo-TORCH syndrome 3	618886
<i>STIL</i>	chr1	1p33	Microcephaly 7 primary autosomal recessive	612703
<i>STIM1</i>	chr11	11p15.5	Immunodeficiency 10	612783
<i>STRA6</i>	chr15	15q24.1	Microphthalmia isolated with coloboma 8	601186
<i>STRA6</i>	chr15	15q24.1	Microphthalmia syndromic 9	601186
<i>STRADA</i>	chr17	17q23.3	Polyhydramnios megalencephaly and symptomatic epilepsy	611087
<i>STRC</i>	chr15	15q15	Deafness autosomal recessive 16	603720
<i>STS</i>	chrX	Xp22.32	Ichthyosis X-linked	308100
<i>STT3A</i>	chr11	11q23.3	Congenital disorder of glycosylation type Iw	615596
<i>STT3B</i>	chr3	3p23	Congenital disorder of glycosylation type Ix	615597
<i>STUB1</i>	chr16	16p13.3	Spinocerebellar ataxia autosomal recessive 16	615768
<i>STX11</i>	chr6	6q24	Hemophagocytic lymphohistiocytosis familial 4 Mitochondrial DNA depletion syndrome 5	603552
<i>SUCLA2</i>	chr13	13q14.2	(encephalomyopathic with or without methylmalonic aciduria) Mitochondrial DNA depletion syndrome 9	612073
<i>SUCLG1</i>	chr2	2p11.2	(encephalomyopathic type with methylmalonic aciduria)	245400
<i>SUFU</i>	chr10	10q24-q25	Medulloblastoma desmoplastic	155255
<i>SUFU</i>	chr10	10q24-q25	Joubert syndrome 32	617757
<i>SUGCT</i>	chr7	7p14	Glutaric aciduria III	231690
<i>SULT2B1</i>	chr19	19q13.3	Ichthyosis congenital autosomal recessive 14	617571
<i>SUMF1</i>	chr3	3p26	Multiple sulfatase deficiency	272200
<i>SUOX</i>	chr12	Chr.12	Sulfite oxidase deficiency	272300
<i>SURF1</i>	chr9	9q34	Leigh syndrome due to COX IV deficiency	256000
<i>SURF1</i>	chr9	9q34	Charcot-Marie-Tooth disease type 4K	616684
<i>SYN1</i>	chrX	Xp11.4-p11.2	Epilepsy X-linked with variable learning disabilities and behavior disorders	300491
<i>SYNE1</i>	chr6	6q25	Arthrogyriposis multiplex congenita 3 myogenic type	618484
<i>SYNE1</i>	chr6	6q25	Spinocerebellar ataxia autosomal recessive 8	610743
<i>SYNE4</i>	chr19	19q13.12	Deafness autosomal recessive 76	615540
<i>SYNJ1</i>	chr21	21q22.2	Epileptic encephalopathy early infantile 53	617389
<i>SYNJ1</i>	chr21	21q22.2	Parkinson disease 20 early-onset	615530
<i>SYP</i>	chrX	Xp11.23-p11.22	Mental retardation X-linked 96	300802
<i>SYT14</i>	chr1	1q32.2	Spinocerebellar ataxia autosomal recessive 11	614229
<i>SZT2</i>	chr1	1p34.2	Epileptic encephalopathy early infantile 18	615476
<i>TAC3</i>	chr12	12q13-q21	Hypogonadotropic hypogonadism 10 with or without anosmia	614839
<i>TACO1</i>	chr17	17q22-q24.2	Mitochondrial complex IV deficiency	220110
<i>TACR3</i>	chr4	4q25	Hypogonadotropic hypogonadism 11 with or without anosmia	614840
<i>TACSTD2</i>	chr1	1p32	Corneal dystrophy gelatinous drop-like	204870
<i>TAF1</i>	chrX	Xq13	Dystonia-Parkinsonism X-linked	314250
<i>TAF1</i>	chrX	Xq13	Mental retardation X-linked syndromic 33	300966
<i>TAF2</i>	chr8	8q24.12	Mental retardation autosomal recessive 40	615599
<i>TAF4B</i>	chr18	18q11.2	Spermatogenic failure 13	615841

TAF6	chr7	7q22.1	Alazami-Yuan syndrome	617126
TALDO1	chr11	11p15.5-p15.4	Transaldolase deficiency	606003
TAP1	chr6	6p21.3	Bare lymphocyte syndrome type I	604571
TAP2	chr6	6p21.3	Bare lymphocyte syndrome type I due to TAP2 deficiency	604571
TAPBP	chr6	6p21.3	Bare lymphocyte syndrome type I	604571
TARS2	chr1	1q21.2	Combined oxidative phosphorylation deficiency 21	615918
TAT	chr16	16q22.1-q22.3	Tyrosinemia type II	276600
TAZ	chrX	Xq28	Barth syndrome	302060
TBC1D20	chr20	20p13	Warburg micro syndrome 4	615663
TBC1D23	chr3	3q12.1-q12.2	Pontocerebellar hypoplasia type 11	617695
TBC1D24	chr16	16p13.3	Epilepsy rolandic with proxysmal exercise-induced dystonia and writer's cramp	608105
TBC1D24	chr16	16p13.3	DOORS syndrome	220500
TBC1D24	chr16	16p13.3	Epileptic encephalopathy early infantile 16	615338
TBC1D24	chr16	16p13.3	Myoclonic epilepsy infantile familial	605021
TBC1D24	chr16	16p13.3	Deafness autosomal recessive 86	614617
TBC1D7	chr6	6p24.1	Macrocephaly/megalencephaly syndrome autosomal recessive	248000
TBCE	chr1	1q42-q43	Kenny-Caffey syndrome type 1	244460
TBCE	chr1	1q42-q43	Hypoparathyroidism-retardation-dysmorphism syndrome	241410
TBCE	chr1	1q42-q43	Encephalopathy progressive with amyotrophy and optic atrophy	617207
TBCK	chr4	4q24	Hypotonia infantile with psychomotor retardation and characteristic facies 3	616900
TBX15	chr1	1p13	Cousin syndrome	260660
TBX19	chr1	1q23-q24	Adrenocorticotrophic hormone deficiency	201400
TBX21	chr17	17q21.3	Asthma aspirin-induced susceptibility to	208550
TBX21	chr17	17q21.3	Asthma and nasal polyps	208550
TBX4	chr17	17q21-q22	Amelia posterior with pelvic and pulmonary hypoplasia syndrome	601360
TBX4	chr17	17q21-q22	Ischiocoxopodopatellar syndrome with or without pulmonary arterial hypertension	147891
TBX6	chr16	16p11.2	Spondylocostal dysostosis 5	122600
TBXAS1	chr7	7q34	Ghosal hematodiaphyseal syndrome	231095
TCAP	chr17	17q12	Muscular dystrophy limb-girdle autosomal recessive 7	601954
TCIRG1	chr11	11q13.4-q13.5	Osteopetrosis autosomal recessive 1	259700
TCN2	chr22	22q11.2-qter	Transcobalamin II deficiency	275350
TCTN1	chr12	12q24.1	Joubert syndrome 13	614173
TCTN2	chr12	12q24.31	Joubert syndrome 24	616654
TCTN2	chr12	12q24.31	Meckel syndrome 8	613885
TCTN3	chr10	10q24.1	Orofaciodigital syndrome IV	258860
TCTN3	chr10	10q24.1	Joubert syndrome 18	614815
TDO2	chr4	4q31-q32	Hypertryptophanemia	600627

<i>TDP1</i>	chr14	14q31-q32	Spinocerebellar ataxia autosomal recessive with axonal neuropathy 1	607250
<i>TDP2</i>	chr6	6p22.3-p22.1	Spinocerebellar ataxia autosomal recessive 23	616949
<i>TDRD7</i>	chr9	9q22.33	Cataract 36	613887
<i>TECPR2</i>	chr14	14q32.31	Spastic paraplegia 49 autosomal recessive	615031
<i>TECR</i>	chr19	19p13.12	Mental retardation autosomal recessive 14	614020
<i>TECTA</i>	chr11	11q22-q24	Deafness autosomal recessive 21	603629
<i>TELO2</i>	chr16	16p13.3	You-Hoover-Fong syndrome	616954
<i>TENM3</i>	chr4	4q35.1	Microphthalmia syndromic 15	615145
<i>TENM3</i>	chr4	4q35.1	Microphthalmia isolated with coloboma 9	615145
<i>TERT</i>	chr5	5p15.33	Dyskeratosis congenita autosomal recessive 4	613989
<i>TERT</i>	chr5	5p15.33	Dyskeratosis congenita autosomal dominant 2	613989
<i>TEX14</i>	chr17	17q22	Spermatogenic failure 23	617707
<i>TF</i>	chr3	3q21	Atransferrinemia	209300
<i>TFAM</i>	chr10	10q21	Mitochondrial DNA depletion syndrome 15 (hepatocerebral type)	617156
<i>TFG</i>	chr3	3q11-q12	Spastic paraplegia 57 autosomal recessive	615658
<i>TFR2</i>	chr7	7q22	Hemochromatosis type 3	604250
<i>TFRC</i>	chr3	3q29	Immunodeficiency 46	616740
<i>TG</i>	chr8	8q24.2-q24.3	Thyroid dyshormonogenesis 3	274700
<i>TGDS</i>	chr13	13q32.1	Catel-Manzke syndrome	616145
<i>TGFB1</i>	chr19	19q13.1	Cystic fibrosis lung disease modifier of	219700
<i>TGFB1</i>	chr19	19q13.1	Inflammatory bowel disease immunodeficiency and encephalopathy	618213
<i>TGM1</i>	chr14	14q11.2	Ichthyosis congenital autosomal recessive 1	242300
<i>TGM5</i>	chr15	15q15.2	Peeling skin syndrome 2	609796
<i>TH</i>	chr11	11p15.5	Segawa syndrome recessive	605407
<i>THOC2</i>	chrX	Xq25	Mental retardation X-linked 12/35	300957
<i>THOC6</i>	chr16	16p13.3	Beaulieu-Boycott-Innes syndrome	613680
<i>THRB</i>	chr3	3p24.3	Thyroid hormone resistance autosomal recessive	274300
<i>TIA1</i>	chr2	2p13	Welander distal myopathy	604454
<i>TICAM1</i>	chr19	19p13.3	Encephalopathy acute infection-induced (herpes-specific) susceptibility to 6	614850
<i>TIMM8A</i>	chrX	Xq22	Mohr-Tranebjaerg syndrome	304700
<i>TJP2</i>	chr9	9q12-q13	Cholestasis progressive familial intrahepatic 4	615878
<i>TJP2</i>	chr9	9q12-q13	Hypercholanemia familial	607748
<i>TK2</i>	chr16	16q22	Mitochondrial DNA depletion syndrome 2 (myopathic type)	609560
<i>TK2</i>	chr16	16q22	Progressive external ophthalmoplegia with mitochondrial DNA deletions autosomal recessive 3	617069
<i>TLE6</i>	chr19	19p13.3	Preimplantation embryonic lethality	616814
<i>TLR3</i>	chr4	4q35	Encephalopathy acute infection-induced (herpes-specific) susceptibility to 2	613002
<i>TMC1</i>	chr9	9q13-q21	Deafness autosomal recessive 7	600974
<i>TMC6</i>	chr17	17q25	Epidermodysplasia verruciformis	226400
<i>TMC8</i>	chr17	17q25	Epidermodysplasia verruciformis 2	618231
<i>TMCO1</i>	chr1	1q24.1	Craniofacial dysmorphism skeletal anomalies and mental retardation syndrome	213980

<i>TMEM126A</i>	chr11	11q14.1-q21	Optic atrophy 7	612989
<i>TMEM138</i>	chr11	11q12.2	Joubert syndrome 16	614465
<i>TMEM165</i>	chr4	4q12	Congenital disorder of glycosylation type IIk	614727
<i>TMEM216</i>	chr11	11q12.2	Meckel syndrome 2	603194
<i>TMEM216</i>	chr11	11q12.2	Joubert syndrome 2	608091
<i>TMEM231</i>	chr16	16q23.1	Meckel syndrome 11	615397
<i>TMEM231</i>	chr16	16q23.1	Joubert syndrome 20	614970
<i>TMEM237</i>	chr2	2q33.2	Joubert syndrome 14	614424
<i>TMEM67</i>	chr8	8q21.13-q22.1	Meckel syndrome 3	607361
<i>TMEM67</i>	chr8	8q21.13-q22.1	RHYNS syndrome	602152
<i>TMEM67</i>	chr8	8q21.13-q22.1	Nephronophthisis 11	613550
<i>TMEM67</i>	chr8	8q21.13-q22.1	Bardet-Biedl syndrome 14 modifier of	615991
<i>TMEM67</i>	chr8	8q21.13-q22.1	COACH syndrome	216360
<i>TMEM67</i>	chr8	8q21.13-q22.1	Joubert syndrome 6	610688
<i>TMEM70</i>	chr8	8q21.11	Mitochondrial complex V (ATP synthase) deficiency nuclear type 2	614052
<i>TMIE</i>	chr3	3p21	Deafness autosomal recessive 6	600971
<i>TMLHE</i>	chrX	Xq28	Autism susceptibility to X-linked 6	300872
<i>TMPRSS15</i>	chr21	21q21	Enterokinase deficiency	226200
<i>TMPRSS3</i>	chr21	21q22.3	Deafness autosomal recessive 8/10	601072
<i>TMPRSS6</i>	chr22	22q12-q13	Iron-refractory iron deficiency anemia	206200
<i>TMTC3</i>	chr12	12q21.32	Lissencephaly 8	617255
<i>TNFRSF10B</i>	chr8	8p22-p21	Squamous cell carcinoma head and neck	275355
<i>TNFRSF11A</i>	chr18	18q22.1	Osteopetrosis autosomal recessive 7	612301
<i>TNFRSF11B</i>	chr8	8q24	Paget disease of bone 5 juvenile-onset	239000
<i>TNFRSF13B</i>	chr17	17p11.2	Immunodeficiency common variable 2	240500
<i>TNFRSF13C</i>	chr22	22q13.1-q13.31	Immunodeficiency common variable 4	613494
<i>TNFRSF4</i>	chr1	1p36	Immunodeficiency 16	615593
<i>TNFSF11</i>	chr13	13q14	Osteopetrosis autosomal recessive 2	259710
<i>TNNI3</i>	chr19	19q13.4	Cardiomyopathy dilated 2A	611880
<i>TNNT1</i>	chr19	19q13.4	Nemaline myopathy 5 Amish type	605355
<i>TNXB</i>	chr6	6p21.3	Ehlers-Danlos syndrome classic-like 1	606408
<i>TOP3A</i>	chr17	17p12-p11.2	Microcephaly growth restriction and increased sister chromatid exchange 2	618097
<i>TOP3A</i>	chr17	17p12-p11.2	Progressive external ophthalmoplegia with mitochondrial DNA deletions autosomal recessive 5	618098
<i>TOR1AIP1</i>	chr1	1q24	Muscular dystrophy autosomal recessive with rigid spine and distal joint contractures	617072
<i>TP53RK</i>	chr20	20q13.12	Galloway-Mowat syndrome 4	617730
<i>TPI1</i>	chr12	12p13	Hemolytic anemia due to triosephosphate isomerase deficiency	615512
<i>TPK1</i>	chr7	7q34	Thiamine metabolism dysfunction syndrome 5 (episodic encephalopathy type)	614458

<i>TPM3</i>	chr1	1q22-q23	CAP myopathy 1	609284
<i>TPM3</i>	chr1	1q22-q23	Nemaline myopathy 1 autosomal dominant or recessive	609284
<i>TPM3</i>	chr1	1q22-q23	Myopathy congenital with fiber-type disproportion	255310
<i>TPMT</i>	chr6	6p22.3	Thiopurines poor metabolism of 1	610460
<i>TPO</i>	chr2	2p25	Thyroid dysmorphogenesis 2A	274500
<i>TPP1</i>	chr11	11p15.5	Spinocerebellar ataxia autosomal recessive 7	609270
<i>TPP1</i>	chr11	11p15.5	Ceroid lipofuscinosis neuronal 2	204500
<i>TPRN</i>	chr9	9q34.3	Deafness autosomal recessive 79	613307
<i>TRAC</i>	chr14	14q11.2	Immunodeficiency 7 TCR-alpha/beta deficient	615387
<i>TRAF3IP1</i>	chr2	2q37.3	Senior-Loken syndrome 9	616629
<i>TRAF3IP2</i>	chr6	6q21	Candidiasis familial 8	615527
<i>TRAK1</i>	chr3	3p25.3-p24.1	Epileptic encephalopathy early infantile 68	618201
<i>TRAPPC11</i>	chr4	4q35.1	Muscular dystrophy limb-girdle autosomal recessive 18	615356
<i>TRAPPC2</i>	chrX	Xp22.2-p22.1	Spondyloepiphyseal dysplasia tarda	313400
<i>TRAPPC9</i>	chr8	8q24.3	Mental retardation autosomal recessive 13	613192
<i>TRDN</i>	chr6	6q22-q23	Ventricular tachycardia catecholaminergic polymorphic 5 with or without muscle weakness	615441
<i>TREH</i>	chr11	11q23	Trehalase deficiency	612119
<i>TREX1</i>	chr3	3p21.3-p21.2	Systemic lupus erythematosus susceptibility to	152700
<i>TREX1</i>	chr3	3p21.3-p21.2	Vasculopathy retinal with cerebral leukodystrophy	192315
<i>TREX1</i>	chr3	3p21.3-p21.2	Aicardi-Goutieres syndrome 1 dominant and recessive	225750
<i>TRH</i>	chr3	3q13.3-q21	Thyrotropin-releasing hormone deficiency	275120
<i>TRHR</i>	chr8	8q23	Hypothyroidism congenital nongoitrous 7	618573
<i>TRIM2</i>	chr4	4q31.3	Charcot-Marie-Tooth disease type 2R	615490
<i>TRIM32</i>	chr9	9q31-q34.1	Bardet-Biedl syndrome 11	615988
<i>TRIM32</i>	chr9	9q31-q34.1	Muscular dystrophy limb-girdle autosomal recessive 8	254110
<i>TRIM37</i>	chr17	17q22-q23	Mulibrey nanism	253250
<i>TRIOBP</i>	chr22	22q13.1	Deafness autosomal recessive 28	609823
<i>TRIP11</i>	chr14	14q31-q32	Osteochondrodysplasia	184260
<i>TRIP11</i>	chr14	14q31-q32	Achondrogenesis type IA	200600
<i>TRIP13</i>	chr5	5p15.33	Mosaic variegated aneuploidy syndrome 3	617598
<i>TRIT1</i>	chr1	1p34.2	Combined oxidative phosphorylation deficiency 35	617873
<i>TRMT1</i>	chr19	19p13.3	Mental retardation autosomal recessive 68	618302
<i>TRMT10A</i>	chr4	4q23	Microcephaly short stature and impaired glucose metabolism 1	616033
<i>TRMU</i>	chr22	22q13	Liver failure transient infantile	613070
<i>TRNT1</i>	chr3	3p25.1	Sideroblastic anemia with B-cell immunodeficiency periodic fevers and developmental delay	616084
<i>TRNT1</i>	chr3	3p25.1	Retinitis pigmentosa and erythrocytic microcytosis	616959
<i>TRPM1</i>	chr15	15q13-q14	Night blindness congenital stationary (complete) 1C autosomal recessive	613216
<i>TRPM6</i>	chr9	9q22	Hypomagnesemia 1 intestinal	602014
<i>TSEN15</i>	chr1	1q25	Pontocerebellar hypoplasia type 2F	617026
<i>TSEN2</i>	chr3	3p25.1	Pontocerebellar hypoplasia type 2B	612389
<i>TSEN34</i>	chr19	19q13.4	Pontocerebellar hypoplasia type 2C	612390

<i>TSEN54</i>	chr17	17q25.1	Pontocerebellar hypoplasia type 4	225753
<i>TSEN54</i>	chr17	17q25.1	Pontocerebellar hypoplasia type 2A	277470
<i>TSEN54</i>	chr17	17q25.1	Pontocerebellar hypoplasia type 5	610204
<i>TSFM</i>	chr12	12q13-q14	Combined oxidative phosphorylation deficiency 3	610505
<i>TSHB</i>	chr1	1p13	Hypothyroidism congenital nongoitrous 4	275100
<i>TSHR</i>	chr14	14q31	Hypothyroidism congenital nongoitrous 1	275200
<i>TSPAN7</i>	chrX	Xq11	Mental retardation X-linked 58	300210
<i>TSPEAR</i>	chr21	21q22.3	Ectodermal dysplasia 14 hair/tooth type with or without hypohidrosis	618180
<i>TSPEAR</i>	chr21	21q22.3	Deafness autosomal recessive 98	614861
<i>TSPYL1</i>	chr6	6q22-q23	Sudden infant death with dysgenesis of the testes syndrome	608800
<i>TSR2</i>	chrX	Xp11.22	Diamond-Blackfan anemia 14 with mandibulofacial dysostosis	300946
<i>TTC19</i>	chr17	17p12	Mitochondrial complex III deficiency nuclear type 2	615157
<i>TTC21B</i>	chr2	2q24.3	Nephronophthisis 12	613820
<i>TTC21B</i>	chr2	2q24.3	Short-rib thoracic dysplasia 4 with or without polydactyly	613819
<i>TTC37</i>	chr5	5q15	Trichohepatoenteric syndrome 1	222470
<i>TTC7A</i>	chr2	2p21	Gastrointestinal defects and immunodeficiency syndrome	243150
<i>TTC8</i>	chr14	14q32.1	Bardet-Biedl syndrome 8	615985
<i>TTC8</i>	chr14	14q32.1	Retinitis pigmentosa 51	613464
<i>TTI2</i>	chr8	8p12	Mental retardation autosomal recessive 39	615541
<i>TTLL5</i>	chr14	14q24.3	Cone-rod dystrophy 19	615860
<i>TTN</i>	chr2	2q31	Muscular dystrophy limb-girdle autosomal recessive 10	608807
<i>TTN</i>	chr2	2q31	Salih myopathy	611705
<i>TTPA</i>	chr8	8q13.1-q13.3	Ataxia with isolated vitamin E deficiency	277460
<i>TUB</i>	chr11	11p15.4	Retinal dystrophy and obesity	616188
<i>TUBA8</i>	chr22	22q11	Cortical dysplasia complex with other brain malformations 8	613180
<i>TUBGCP4</i>	chr15	15q15	Microcephaly and chorioretinopathy autosomal recessive 3	616335
<i>TUBGCP6</i>	chr22	22q13.33	Microcephaly and chorioretinopathy autosomal recessive 1	251270
<i>TUFM</i>	chr16	16p11.2	Combined oxidative phosphorylation deficiency 4	610678
<i>TULP1</i>	chr6	6p21.3	Retinitis pigmentosa 14	600132
<i>TULP1</i>	chr6	6p21.3	Leber congenital amaurosis 15	613843
<i>TUSC3</i>	chr8	8p22	Mental retardation autosomal recessive 7	611093
<i>TWIST2</i>	chr2	2q37.3	Focal facial dermal dysplasia 3 Setleis type	227260
<i>TWNK</i>	chr10	10q24	Mitochondrial DNA depletion syndrome 7 (hepatocerebral type)	271245
<i>TWNK</i>	chr10	10q24	Perrault syndrome 5	616138
<i>TXN2</i>	chr22	22q12.3	Combined oxidative phosphorylation deficiency 29	616811
<i>TXNL4A</i>	chr18	18q23	Burn-McKeown syndrome	608572
<i>TXNRD2</i>	chr22	22q11.2	Glucocorticoid deficiency 5	617825
<i>TYK2</i>	chr19	19p13.2	Immunodeficiency 35	611521
<i>TYMP</i>	chr22	22q13.32-qter	Mitochondrial DNA depletion syndrome 1 (MNGIE type)	603041

<i>TYR</i>	chr11	11q14-q21	Albinism oculocutaneous type IB	606952
<i>TYR</i>	chr11	11q14-q21	Albinism oculocutaneous type IA	203100
<i>TYROBP</i>	chr19	19q13.1	Polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy 1	221770
<i>TYRP1</i>	chr9	9p23	Albinism oculocutaneous type III	203290
<i>UBA1</i>	chrX	Xp11.23	Spinal muscular atrophy X-linked 2 infantile	301830
<i>UBE2A</i>	chrX	Xq24	Mental retardation X-linked syndromic Nascimento-type	300860
<i>UBE2T</i>	chr1	1q31	Fanconi anemia complementation group T	616435
<i>UBE3B</i>	chr12	12q24.11	Kaufman oculocerebrofacial syndrome	244450
<i>UBR1</i>	chr15	15q15-q21.1	Johanson-Blizzard syndrome	243800
<i>UCHL1</i>	chr4	4p14	Spastic paraplegia 79 autosomal recessive	615491
<i>UCHL1</i>	chr4	4p14	Parkinson disease 5 susceptibility to	613643
<i>UCP3</i>	chr11	11q13	Obesity severe and type II diabetes	601665
<i>UGT1A1</i>	chr2	2q37	Gilbert syndrome	143500
<i>UGT1A1</i>	chr2	2q37	Hyperbilirubinemia familial transient neonatal	237900
<i>UGT1A1</i>	chr2	2q37	Crigler-Najjar syndrome type I	218800
<i>UGT1A1</i>	chr2	2q37	Crigler-Najjar syndrome type II	606785
<i>UMPS</i>	chr3	3q13	Orotic aciduria	258900
<i>UNC13D</i>	chr17	17q25.1	Hemophagocytic lymphohistiocytosis familial 3	608898
<i>UNC80</i>	chr2	2q35	Hypotonia infantile with psychomotor retardation and characteristic facies 2	616801
<i>UNG</i>	chr12	12q23-q24.1	Immunodeficiency with hyper IgM type 5	608106
<i>UPB1</i>	chr22	22q11.2	Beta-ureidopropionase deficiency	613161
<i>UPF3B</i>	chrX	Xq25-q26	Mental retardation X-linked syndromic 14	300676
<i>UQCRB</i>	chr8	8q22	Mitochondrial complex III deficiency nuclear type 3	615158
<i>UQCRC2</i>	chr16	16p12	Mitochondrial complex III deficiency nuclear type 5	615160
<i>UQCRCF1</i>	chr19	19q12	Mitochondrial complex III deficiency nuclear type 10	618775
<i>UQCRCQ</i>	chr5	5q31.1	Mitochondrial complex III deficiency nuclear type 4	615159
<i>UROC1</i>	chr3	3q21.3	Urocanase deficiency	276880
<i>UROD</i>	chr1	1p34	Porphyria hepatoerythropoietic	176100
<i>UROD</i>	chr1	1p34	Porphyria cutanea tarda	176100
<i>UROS</i>	chr10	10q25.2-q26.3	Porphyria congenital erythropoietic	263700
<i>USB1</i>	chr16	16q13	Poikiloderma with neutropenia	604173
<i>USH1C</i>	chr11	11p15.1	Deafness autosomal recessive 18A	602092
<i>USH1C</i>	chr11	11p15.1	Usher syndrome type 1C	276904
<i>USH1G</i>	chr17	17q24-q25	Usher syndrome type 1G	606943
<i>USH2A</i>	chr1	1q41	Usher syndrome type 2A	276901
<i>USP27X</i>	chrX	Xp11.2	Mental retardation X-linked 105	300984
<i>USP9X</i>	chrX	Xp11.4	Mental retardation X-linked 99	300919
<i>USP9X</i>	chrX	Xp11.4	Mental retardation X-linked 99 syndromic female-restricted	300968
<i>UVSSA</i>	chr4	4p16.3	UV-sensitive syndrome 3	614640
<i>VAMP1</i>	chr12	12p13.31	Myasthenic syndrome congenital 25	618323
<i>VARS2</i>	chr6	6p21.3	Combined oxidative phosphorylation deficiency 20	615917
<i>VAX1</i>	chr10	10q26.1	Microphthalmia syndromic 11	614402
<i>VDR</i>	chr12	12q12-q14	Rickets vitamin D-resistant type IIA	277440

VHL	chr3	3p26-p25	Erythrocytosis familial 2	263400
VIPAS39	chr14	14q24.3	Arthrogyposis renal dysfunction and cholestasis 2	613404
VLDLR	chr9	9p24	Cerebellar hypoplasia and mental retardation with or without quadrupedal locomotion 1	224050
VMA21	chrX	Xq28	Myopathy X-linked with excessive autophagy	310440
VPS13A	chr9	9q21	Choreoacanthocytosis	200150
VPS13B	chr8	8q22-q23	Cohen syndrome	216550
VPS33B	chr15	15q26.1	Arthrogyposis renal dysfunction and cholestasis 1	208085
VPS37A	chr8	8p23-p21	Spastic paraplegia 53 autosomal recessive	614898
VPS45	chr1	1q21-q22	Neutropenia severe congenital 5 autosomal recessive	615285
VPS53	chr17	17p13.3	Pontocerebellar hypoplasia type 2E	615851
VRK1	chr14	14q32	Pontocerebellar hypoplasia type 1A	607596
VWA3B	chr2	2q11.2	Spinocerebellar ataxia autosomal recessive 22	616948
VWF	chr12	12p13.3	von Willebrand disease type 1	193400
VWF	chr12	12p13.3	von Willebrand disease types 2A 2B 2M and 2N	613554
VWF	chr12	12p13.3	von Willibrand disease type 3	277480
WAS	chrX	Xp11.23-p11.22	Thrombocytopenia X-linked intermittent	313900
WAS	chrX	Xp11.23-p11.22	Thrombocytopenia X-linked	313900
WAS	chrX	Xp11.23-p11.22	Wiskott-Aldrich syndrome	301000
WAS	chrX	Xp11.23-p11.22	Neutropenia severe congenital X-linked	300299
WASHC4	chr12	12q23.3	Mental retardation autosomal recessive 43	615817
WASHC5	chr8	8q24.13	Ritscher-Schinzel syndrome 1	220210
WDPCP	chr2	2p15	Bardet-Biedl syndrome 15	615992
WDPCP	chr2	2p15	Congenital heart defects hamartomas of tongue and polysyndactyly	217085
WDR19	chr4	4p14-p11	Nephronophthisis 13	614377
WDR19	chr4	4p14-p11	Senior-Loken syndrome 8	616307
WDR19	chr4	4p14-p11	Cranioectodermal dysplasia 4	614378
WDR19	chr4	4p14-p11	Short-rib thoracic dysplasia 5 with or without polydactyly	614376
WDR35	chr2	2p24.1	Short-rib thoracic dysplasia 7 with or without polydactyly	614091
WDR35	chr2	2p24.1	Cranioectodermal dysplasia 2	613610
WDR4	chr21	21q22.3	Microcephaly growth deficiency seizures and brain malformations	618346
WDR4	chr21	21q22.3	Galloway-Mowat syndrome 6	618347
WDR45B	chr17	17q25.3	Neurodevelopmental disorder with spastic quadriplegia and brain abnormalities with or without seizures	617977
WDR62	chr19	19q13.12	Microcephaly 2 primary autosomal recessive with or without cortical malformations	604317
WDR72	chr15	15q21.3	Amelogenesis imperfecta type IIA3	613211
WDR73	chr15	15q25.2	Galloway-Mowat syndrome 1	251300
WDR81	chr17	17p13.3	Hydrocephalus congenital 3 with brain anomalies	617967
WDR81	chr17	17p13.3	Cerebellar ataxia mental retardation and dysequilibrium syndrome 2	610185

<i>WFS1</i>	chr4	4p16.1	Wolfram syndrome 1	222300
<i>WHRN</i>	chr9	9q32-q34	Deafness autosomal recessive 31	607084
<i>WHRN</i>	chr9	9q32-q34	Usher syndrome type 2D	611383
<i>WNK1</i>	chr12	12p13	Neuropathy hereditary sensory and autonomic type II	201300
<i>WNT1</i>	chr12	12q12-q13	Osteogenesis imperfecta type XV	615220
<i>WNT10A</i>	chr2	2q35	Schopf-Schulz-Passarge syndrome	224750
<i>WNT10A</i>	chr2	2q35	Tooth agenesis selective 4	150400
<i>WNT10A</i>	chr2	2q35	Odontoonychodermal dysplasia	257980
<i>WNT10B</i>	chr12	12q13	Split-hand/foot malformation 6	225300
<i>WNT3</i>	chr17	17q21	Tetra-amelia syndrome 1	273395
<i>WNT4</i>	chr1	1p35	SERKAL syndrome	611812
<i>WNT7A</i>	chr3	3p25	Fuhrmann syndrome	228930
<i>WNT7A</i>	chr3	3p25	Ulna and fibula absence of with severe limb deficiency	276820
<i>WRAP53</i>	chr17	17p13	Dyskeratosis congenita autosomal recessive 3	613988
<i>WRN</i>	chr8	8p12-p11.2	Werner syndrome	277700
<i>WWOX</i>	chr16	16q23.3-q24.1	Spinocerebellar ataxia autosomal recessive 12	614322
<i>WWOX</i>	chr16	16q23.3-q24.1	Epileptic encephalopathy early infantile 28	616211
<i>XDH</i>	chr2	2p23-p22	Xanthinuria type I	278300
<i>XIAP</i>	chrX	Xq25	Lymphoproliferative syndrome X-linked 2	300635
<i>XPA</i>	chr9	9q22.3	Xeroderma pigmentosum group A	278700
<i>XPC</i>	chr3	3p25	Xeroderma pigmentosum group C	278720
<i>XPNPEP3</i>	chr22	22q13.31-q13.33	Nephronophthisis-like nephropathy 1	613159
<i>XRCC1</i>	chr19	19q13.2	Spinocerebellar ataxia autosomal recessive 26	617633
<i>XRCC2</i>	chr7	7q36.1	Fanconi anemia complementation group U	617247
<i>XRCC4</i>	chr5	5q13-q14	Short stature microcephaly and endocrine dysfunction	616541
<i>XYLT1</i>	chr16	16p13.1	Pseudoxanthoma elasticum modifier of severity of	264800
<i>XYLT1</i>	chr16	16p13.1	Desbuquois dysplasia 2	615777
<i>XYLT2</i>	chr17	17q21.3-q22	Pseudoxanthoma elasticum modifier of severity of	264800
<i>XYLT2</i>	chr17	17q21.3-q22	Spondyloocular syndrome	605822
<i>YARS2</i>	chr12	12p11.21	Myopathy lactic acidosis and sideroblastic anemia 2	613561
<i>ZAP70</i>	chr2	2q12	Autoimmune disease multisystem infantile-onset 2	617006
<i>ZAP70</i>	chr2	2q12	Immunodeficiency 48	269840
<i>ZBTB11</i>	chr3	3q12.3	Intellectual developmental disorder autosomal recessive 69	618383
<i>ZBTB16</i>	chr11	11q23.1	Skeletal defects genital hypoplasia and mental retardation	612447
<i>ZBTB24</i>	chr6	6q21	Immunodeficiency-centromeric instability-facial anomalies syndrome 2	614069
<i>ZBTB42</i>	chr14	14q32.33	Lethal congenital contracture syndrome 6	616248
<i>ZC3H14</i>	chr14	14q31.3	Mental retardation autosomal recessive 56	617125
<i>ZC4H2</i>	chrX	Xq11.2	Wieacker-Wolff syndrome	314580
<i>ZFYVE26</i>	chr14	14q24.1	Spastic paraplegia 15 autosomal recessive	270700
<i>ZIC3</i>	chrX	Xq26.2	Congenital heart defects nonsyndromic 1 X-linked	306955

<i>ZIC3</i>	chrX	Xq26.2	Heterotaxy visceral 1 X-linked	306955
<i>ZIC3</i>	chrX	Xq26.2	VACTERL association X-linked	314390
<i>ZMPSTE24</i>	chr1	1p34	Restrictive dermatopathy lethal	275210
<i>ZMPSTE24</i>	chr1	1p34	Mandibuloacral dysplasia with type B lipodystrophy	608612
<i>ZMYND10</i>	chr3	3p21.3	Ciliary dyskinesia primary 22	615444
<i>ZMYND15</i>	chr17	17p13.2	Spermatogenic failure 14	615842
<i>ZNF141</i>	chr4	4p16.3	Polydactyly postaxial type A6	615226
<i>ZNF335</i>	chr20	20q11.2-q13.1	Microcephaly 10 primary autosomal recessive	615095
<i>ZNF408</i>	chr11	11p11.2	Exudative vitreoretinopathy 6	616468
<i>ZNF408</i>	chr11	11p11.2	Retinitis pigmentosa 72	616469
<i>ZNF423</i>	chr16	16q12	Nephronophthisis 14	614844
<i>ZNF423</i>	chr16	16q12	Joubert syndrome 19	614844
<i>ZNF469</i>	chr16	16q24	Brittle cornea syndrome 1	229200
<i>ZNF513</i>	chr2	2p24.1-p22.3	Retinitis pigmentosa 58	613617
<i>ZP1</i>	chr11	11q12.2	Oocyte maturation defect 1	615774
<i>AGTR2</i>	chrX	Xq23	Mental retardation, X-linked 88	300852
<i>CASP10</i>	chr2	2q33-q34	Autoimmune lymphoproliferative syndrome type II	603909
<i>ZNF41</i>	chrX	Xp22.1-cen	Mental retardation, X-linked	314995
<i>CDKL5</i>	chrX	Xp22	Epileptic encephalopathy early infantile 2	300672
<i>PTEN</i>	chr10	10q23.31	Lhermitte-Duclos syndrome	158350
<i>SFTPC</i>	chr8	8p21	Surfactant metabolism dysfunction pulmonary 2	610913
<i>ARHGEF6</i>	chrX	Xq26	X-linked non-syndromic intellectual disability	
<i>UBE3A</i>	chr15	15q11-q13	Angelman syndrome	105830
<i>CASK</i>	chrX	Xp11.4	Mental retardation with or without nystagmus	300422
<i>CASK</i>	chrX	Xp11.4	Mental retardation and microcephaly with pontine and cerebellar hypoplasia	300749
<i>CASK</i>	chrX	Xp11.4	FG syndrome 4	300422
<i>PDHA1</i>	chrX	Xp22.2-p22.1	Leigh syndrome with leukodystrophy	312170
<i>TCF4</i>	chr18	18q21.2	Corneal dystrophy Fuchs endothelial 3	613267
<i>SHROOM4</i>	chrX	Xp11.2	Stocco dos Santos X-linked mental retardation syndrome	300434
<i>OXCT1</i>	chr5	5p13	Succinyl CoA:3-oxoacid CoA transferase deficiency	245050
<i>GLA</i>	chrX	Xq22	Fabry disease	301500
<i>GLA</i>	chrX	Xq22	Fabry disease cardiac variant	301500
<i>NHEJ1</i>	chr2	2q35	Cernunnos-XLF deficiency	611291
<i>ZEB2</i>	chr2	2q22	Mowat-Wilson syndrome	235730
<i>NSD1</i>	chr5	5q35	Sotos syndrome 1	117550
<i>NLGN4X</i>	chrX	Xp22.33	Mental retardation X-linked	300495
<i>NLGN4X</i>	chrX	Xp22.33	Asperger syndrome susceptibility X-linked 2	300497
<i>NLGN4X</i>	chrX	Xp22.33	Autism susceptibility X-linked 2	300495
<i>BCOR</i>	chrX	Xp11.4	Microphthalmia syndromic 2	300166
<i>RPS6KA3</i>	chrX	Xp22.2-p22.1	Mental retardation X-linked 19	300844
<i>RPS6KA3</i>	chrX	Xp22.2-p22.1	Coffin-Lowry syndrome	303600
<i>STXBP2</i>	chr19	19p13.3-p13.2	Hemophagocytic lymphohistiocytosis familial 5	613101
<i>CHMP1B</i>	chr18	18p11	Spastic paraplegia	606486

<i>EFNB1</i>	chrX	Xq12	Craniofrontonasal dysplasia	304110
<i>HJV</i>	chr1	1q21	Hemochromatosis type 2A	602390
<i>DCX</i>	chrX	Xq22.3-q23	Subcortical laminar heterotopia X-linked	300067
<i>DCX</i>	chrX	Xq22.3-q23	Lissencephaly X-linked	300067
<i>NXF5</i>	chrX	Xq22.1	Focal segmental glomerulosclerosis	300319
<i>COL1A1</i>	chr17	17q21.31-q22	Osteogenesis imperfecta type I	166200
<i>COL1A1</i>	chr17	17q21.31-q22	Osteogenesis imperfecta type IV	166220
<i>COL1A1</i>	chr17	17q21.31-q22	Osteogenesis imperfecta type II	166210
<i>COL1A1</i>	chr17	17q21.31-q22	Bone mineral density variation QTL osteoporosis	166710
<i>COL1A1</i>	chr17	17q21.31-q22	Caffey disease	114000
<i>COL1A1</i>	chr17	17q21.31-q22	Ehlers-Danlos syndrome arthrocalasia type 1	130060
<i>COL1A1</i>	chr17	17q21.31-q22	Osteogenesis imperfecta type III	259420
<i>TUBA1A</i>	chr12	12q12-q14	Lissencephaly 3	611603
<i>SLC16A2</i>	chrX	Xq13.2	Allan-Herndon-Dudley syndrome	300523
<i>SLC9A6</i>	chrX	Xq26.3	Mental retardation X-linked syndromic Christianson type	300243
<i>ZNF674</i>	chrX	Xp11	X-linked mental retardation	300573
<i>FASLG</i>	chr1	1q23	Autoimmune lymphoproliferative syndrome type IB	601859
<i>HSD17B10</i>	chrX	Xp11.2	HSD10 mitochondrial disease	300438
<i>NDUFA7</i>	chr19	19p13.2	Disease associated to NDUFA7	602139
<i>ZNF711</i>	chrX	Xq21.1-q21.3	Mental retardation X-linked 97	300803
<i>FOXG1</i>	chr14	14q13	Rett syndrome congenital variant	613454
<i>PCDH19</i>	chrX	Xq22	Epileptic encephalopathy early infantile 9	300088
<i>ARSL</i>	chrX	Xp22.3	Chondrodysplasia punctata X-linked recessive	302950
<i>ACADL</i>	chr2	2q34-q35	Pulmonary surfactant dysfunction	609576
<i>HBA1</i>	chr16	16pter-p13.3	Hemoglobin H disease nondeletional	613978
<i>HBA1</i>	chr16	16pter-p13.3	Thalassemias alpha-	604131
<i>HBA1</i>	chr16	16pter-p13.3	Erythrocytosis 7	617981
<i>HBA1</i>	chr16	16pter-p13.3	Methemoglobinemia alpha type	617973
<i>HBA1</i>	chr16	16pter-p13.3	Heinz body anemias alpha-	140700
<i>NR5A1</i>	chr9	9q33	Adrenocortical insufficiency	612964
<i>NR5A1</i>	chr9	9q33	46 XX sex reversal 4	617480
<i>NR5A1</i>	chr9	9q33	Premature ovarian failure 7	612964
<i>NR5A1</i>	chr9	9q33	Spermatogenic failure 8	613957
<i>NR5A1</i>	chr9	9q33	46XY sex reversal 3	612965
<i>HUWE1</i>	chrX	Xp11.2	Mental retardation X-linked syndromic Turner type	309590
<i>ZDHHC9</i>	chrX	Xq26.1	Mental retardation X-linked syndromic Raymond type	300799
<i>G6PD</i>	chrX	Xq28	Hemolytic anemia G6PD deficient (favism)	300908
<i>G6PD</i>	chrX	Xq28	Resistance to malaria due to G6PD deficiency	611162
<i>CYP11A1</i>	chr15	15q24.1	Adrenal insufficiency congenital with 46XY sex reversal partial or complete	613743
<i>NDUFS5</i>	chr1	1p34.2-p33	Complex I-deficiency	603847
<i>MMUT</i>	chr6	6p21	Methylmalonic aciduria mut(0) type	251000
<i>GTF2H5</i>	chr6	6q25.3	Trichothiodystrophy 3 photosensitive	616395

COMPATIBILITY

GENETIC TEST

<i>UNC93B1</i>	chr11	11q13	Encephalopathy acute infection-induced (herpes-specific) susceptibility to 1	610551
<i>NHS</i>	chrX	Xp22.13	Nance-Horan syndrome	302350
<i>NHS</i>	chrX	Xp22.13	Cataract 40 X-linked	302200
<i>SOX3</i>	chrX	Xq26.3	Mental retardation X-linked with isolated growth hormone deficiency	300123
<i>SOX3</i>	chrX	Xq26.3	Panhypopituitarism X-linked	312000
<i>ACSL4</i>	chrX	Xq22.3	Mental retardation X-linked 63	300387
<i>GDI1</i>	chrX	Xq28	Mental retardation X-linked 41	300849
<i>FAS</i>	chr10	10q24.1	Autoimmune lymphoproliferative syndrome type IA	601859
<i>FAS</i>	chr10	10q24.1	Autoimmune lymphoproliferative syndrome	601859
<i>COL4A5</i>	chrX	Xq22.3	Alport syndrome 1 X-linked	301050