

GENE	ASSOCIATED CONDITIONS
<b>ABCC8</b>	Familial Hyperinsulinism (ABCC8-Related)
<b>ABCD1</b>	Adrenoleukodystrophy, X-Linked Medium Chain Acyl-CoA Dehydrogenase Deficiency
<b>ACADM</b>	Very Long Chain Acyl-CoA Dehydrogenase Deficiency
<b>ACADVL</b>	Beta-Ketothiolase Deficiency
<b>ACAT1</b>	Combined Malonic Methylmalonic Aciduria
<b>ACSF3</b>	
<b>ADA</b>	Adenosine Deaminase Deficiency
<b>AGA</b>	Aspartylglycosaminuria
<b>AGL</b>	Glycogen Storage Disease, Type III
<b>AGXT</b>	Primary Hyperoxaluria, Type I Polyglandular Autoimmune Syndrome Type I
<b>AIRE</b>	
<b>ALDH3A2</b>	Sjogren-Larsson Syndrome
<b>ALDOB</b>	Hereditary Fructose Intolerance Congenital Disorder of Glycosylation Type Ic
<b>ALG6</b>	
<b>ALMS1</b>	Alstrom Syndrome
<b>ALPL</b>	Hypophosphatasia
<b>ARSA</b>	Metachromatic Leukodystrophy
<b>ARSB</b>	Mucopolysaccharidosis type VI
<b>ASL</b>	Argininosuccinic Aciduria
<b>ASPA</b>	Canavan Disease
<b>ASS1</b>	Citrullinemia, Type I
<b>ATM</b>	Ataxia-Telangiectasia
<b>ATP7A</b>	Menkes Disease
<b>ATP7B</b>	Wilson Disease
<b>BBS1</b>	Bardet-Biedl Syndrome (BBS1-Related)
<b>BCKDHA</b>	Maple Syrup Urine Disease, Type 1a
<b>BCKDHB</b>	Maple Syrup Urine Disease, Type 1b GRACILE Syndrome
<b>BCS1L</b>	Other BCS1L-Related Disorders
<b>BLM</b>	Bloom Syndrome
<b>BTD</b>	Biotinidase Deficiency Limb-Girdle Muscular Dystrophy
<b>CAPN3</b>	Type 2A
<b>CBS</b>	Homocystinuria (CBS-Related)
<b>CFTR</b>	Cystic Fibrosis Neuronal Ceroid-Lipofuscinosis (CLN3-Related)
<b>CLN3</b>	Neuronal Ceroid-Lipofuscinosis (CLN3-Related)
<b>CLN5</b>	Neuronal Ceroid-Lipofuscinosis (CLN5-Related)
<b>CLN6</b>	Neuronal Ceroid-Lipofuscinosis (CLN6-Related)
<b>CLN8</b>	Neuronal Ceroid-Lipofuscinosis (CLN8-Related)
<b>CLRN1</b>	Usher Syndrome, Type III
<b>COL4A3</b>	Alport Syndrome (COL4A3-Related)
<b>COL4A4</b>	Alport Syndrome (COL4A4-Related)
<b>COL4A5</b>	Alport Syndrome (COL4A5-Related)
<b>CPT1A</b>	Carnitine Palmitoyltransferase IA Deficiency

GENE	ASSOCIATED CONDITIONS
<b>CPT2</b>	Carnitine Palmitoyltransferase II Deficiency
<b>CTNS</b>	Cystinosis
<b>CTSK</b>	Pycnodysostosis
<b>CYP27A1</b>	Cerebrotendinous Xanthomatosis
<b>DHCR7</b>	Smith-Lemli-Opitz Syndrome
<b>DLD</b>	Lipoamide Dehydrogenase Deficiency Duchenne Muscular Dystrophy Becker Muscular Dystrophy
<b>DMD</b>	
<b>DYSF</b>	Dysferlinopathy
<b>ETFA</b>	Glutaric Acidemia, Type IIa
<b>ETFDH</b>	Glutaric Acidemia, Type IIc
<b>F11</b>	Factor XI Deficiency
<b>F9</b>	Factor IX Deficiency
<b>FAH</b>	Tyrosinemia, Type I
<b>FANCA</b>	Fanconi Anemia, Group A
<b>FANCC</b>	Fanconi Anemia, Group C FKTN-Related Disorders (including Walker-Warburg Syndrome)
<b>FKTN</b>	
<b>FMRI</b>	Fragile X Syndrome
<b>G6PC</b>	Glycogen Storage Disease, Type Ia
<b>GAA</b>	Glycogen Storage Disease, Type II
<b>GALC</b>	Krabbe Disease
<b>GALK1</b>	Galactokinase Deficiency
<b>GALT</b>	Galactosemia
<b>GAMT</b>	Cerebral Creatine Deficiency Syndrome 2
<b>GBA</b>	Gaucher Disease
<b>GCDH</b>	Glutaric Acidemia, Type I Non-Syndromic Hearing Loss (GJB2-Related)
<b>GJB2</b>	
<b>GLA</b>	Fabry Disease
<b>GLBI</b>	GLBI-Related Disorders
<b>GNE</b>	Inclusion Body Myopathy 2
<b>GNPTAB</b>	Mucopolipidosis II / IIIA
<b>GNPTG</b>	Mucopolipidosis III Gamma
<b>GP9</b>	Bernard-Soulier Syndrome, Type C
<b>GRHPR</b>	Primary Hyperoxaluria, Type 2 Long-Chain 3-Hydroxyacyl-CoA Dehydrogenase Deficiency
<b>HADHA</b>	
<b>HBB</b>	Beta-Globin-Related Hemoglobinopathies Hexosaminidase A Deficiency (including Tay-Sachs Disease)
<b>HEXA</b>	
<b>HEXB</b>	Sandhoff Disease
<b>HGSNAT</b>	Mucopolysaccharidosis Type IIIC
<b>HLCS</b>	Holocarboxylase Synthetase Deficiency
<b>HMGCL</b>	HMG-CoA Lyase Deficiency
<b>HOGA1</b>	Primary Hyperoxaluria, Type 3
<b>HSD17B4</b>	D-Bifunctional Protein Deficiency

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<b>HYLSI</b>	Hydrolethalus Syndrome
<b>IDS</b>	Mucopolysaccharidosis Type II
<b>IDUA</b>	Mucopolysaccharidosis Type I
<b>IKBKAP</b>	Familial Dysautonomia
<b>IL2RG</b>	X-Linked Severe Combined Immunodeficiency
<b>IVD</b>	Isovaleric Acidemia
<b>KCNJ11</b>	Familial Hyperinsulinism (KCNJ11-Related)
<b>LAMA3</b>	Junctional Epidermolysis Bullosa (LAMA3-Related)
<b>LAMB3</b>	Junctional Epidermolysis Bullosa (LAMB3-Related)
<b>LAMC2</b>	Junctional Epidermolysis Bullosa (LAMC2-Related)
<b>LIPA</b>	Lysosomal Acid Lipase Deficiency
<b>LRPPRC</b>	Leigh Syndrome, French-Canadian Type
<b>MAN2B1</b>	Alpha-Mannosidosis
<b>MCCC1</b>	3-Methylcrotonyl-CoA Carboxylase Deficiency 3-Methylcrotonyl-CoA Carboxylase Deficiency
<b>MCCC2</b>	(MCCC2-Related)
<b>MCOLNI</b>	Mucopolidosis IV
<b>MEFV</b>	Familial Mediterranean Fever
<b>MLCI</b>	Megalencephalic Leukoencephalopathy with Subcortical Cysts
<b>MMAA</b>	Methylmalonic Acidemia (MMAA-Related)
<b>MMAB</b>	Methylmalonic Acidemia (MMAB-Related) Methylmalonic Aciduria and Homocystinuria
<b>MMACHC</b>	Cobalamin C Type Methylmalonic Aciduria and Homocystinuria
<b>MMADHC</b>	Cobalamin D Type
<b>MPI</b>	Congenital Disorder of Glycosylation, Type Ib
<b>MTRR</b>	Homocystinuria, cblE Type
<b>MUT</b>	Methylmalonic Acidemia (MUT-Related)
<b>NAGLU</b>	Mucopolysaccharidosis Type IIIB
<b>NBN</b>	Nijmegen Breakage Syndrome
<b>NEB</b>	Nemaline Myopathy 2
<b>NPCI</b>	Niemann-Pick Disease, Type C (NPC1-Related)
<b>NPC2</b>	Niemann-Pick Disease, Type C (NPC2-Related) Nephrotic Syndrome (NPHS1-Related)
<b>NPHS1</b>	Congenital Finnish Nephrosis Nephrotic Syndrome (NPHS2-Related)
<b>NPHS2</b>	Steroid-Resistant Nephrotic Syndrome
<b>OAT</b>	Ornithine Aminotransferase Deficiency
<b>OPA3</b>	3-Methylglutaconic Aciduria, Type III
<b>OTC</b>	Ornithine Transcarbomylase Deficiency
<b>PAH</b>	Phenylalanine Hydroxylase Deficiency
<b>PCCA</b>	Propionic Acidemia (PCCA-Related)
<b>PCCB</b>	Propionic Acidemia (PCCB-Related)
<b>PEX1</b>	Zellweger Syndrome Spectrum (PEX1-Related)
<b>PEX2</b>	Zellweger Syndrome Spectrum (PEX2-Related)
<b>PEX6</b>	Zellweger Syndrome Spectrum (PEX6-Related)

GENE	ASSOCIATED CONDITIONS
<b>PEX7</b>	Rhizomelic Chondrodysplasia Punctata, Type I
<b>PKHD1</b>	Polycystic Kidney Disease, Autosomal Recessive
<b>PMM2</b>	Congenital Disorder of Glycosylation, Type Ia Muscle-Eye-Brain Disease and Other POMGNT1-Related
<b>POMGNT1</b>	Congenital Muscular Dystrophy-Dystroglycanopathies
<b>PPT1</b>	Neuronal Ceroid-Lipofuscinosis (PPT1-Related)
<b>PROPI</b>	Combined Pituitary Hormone Deficiency 2
<b>PTS</b>	6-Pyruvoyl-Tetrahydropterin Synthase Deficiency
<b>PYGM</b>	Glycogen Storage Disease, Type V
<b>RMRP</b>	Cartilage-Hair Hypoplasia
<b>RSI</b>	X-Linked Juvenile Retinoschisis
<b>RTELI</b>	Dyskeratosis Congenita (RTELI-Related) Autosomal Recessive Spastic
<b>SACS</b>	Ataxia of Charlevoix-Saguenay
<b>SGCA</b>	Limb-Girdle Muscular Dystrophy, Type 2D
<b>SGCB</b>	Limb-Girdle Muscular Dystrophy, Type 2E
<b>SGCG</b>	Limb-Girdle Muscular Dystrophy, Type 2C
<b>SGSH</b>	Mucopolysaccharidosis Type IIIA
<b>SLC12A6</b>	Andermann Syndrome
<b>SLC17A5</b>	Salla Disease
<b>SLC22A5</b>	Primary Carnitine Deficiency
<b>SLC25A13</b>	Citrin Deficiency Hyperornithinemia-Hyperammonemia-
<b>SLC25A15</b>	Homocitrullinuria Syndrome
<b>SLC26A2</b>	Sulfate Transporter-Related Osteochondrodysplasia
<b>SLC26A4</b>	Pendred Syndrome
<b>SLC35A3</b>	Arthrogryposis, Mental Retardation, and Seizures
<b>SLC37A4</b>	Glycogen Storage Disease, Type Ib
<b>SMNI</b>	Spinal Muscular Atrophy
<b>SMPD1</b>	Niemann-Pick Disease (SMPD1-Related)
<b>STAR</b>	Lipoid Adrenal Hyperplasia
<b>TCIRG1</b>	Osteopetrosis I
<b>TH</b>	Segawa Syndrome
<b>TMEM216</b>	Joubert Syndrome 2
<b>TPPI</b>	Neuronal Ceroid-Lipofuscinosis (TPPI-Related)
<b>ACADS</b>	Short Chain Acyl-CoA Dehydrogenase Deficiency
<b>ARG1</b>	Argininemia
<b>BBS10</b>	Bardet-Biedl Syndrome (BBS10-Related)
<b>CYP21A2</b>	Congenital Adrenal Hyperplasia (CAH)
<b>DBT</b>	Maple Syrup Urine Disease, Type II
<b>TAT</b>	Tyrosinemia type II
<b>G6PD</b>	Glucose-6-phosphate dehydrogenase deficiency
<b>GJB6</b>	Non-Syndromic Hearing Loss (GJB6-Related)
<b>HOGA1</b>	Primary Hyperoxaluria, Type 3