

# PRECONCEPTION SCREENING GENE PANEL DG 2.18 (2337 genes)

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Gene	Agilent V5 covered >10x	Agilent V5 covered > 20x	TWIST covered >10x	TWIST covered >20x	Associated Phenotype description and OMIM disease ID
AAAS	100%	99,90%	100%	100%	Achalasia-addisonianism-alacrimia syndrome, 231550
AARS	100%	99,90%	100%	100%	Epileptic encephalopathy, early infantile, 29, 616339 Charcot-Marie-Tooth disease, axonal, type 2N, 613287
AARS2	100%	99,40%	100%	100%	Combined oxidative phosphorylation deficiency 8, 614096 Leukoencephalopathy, progressive, with ovarian failure, 615889
AASS	100%	99,70%	100%	100%	Hyperlysinemia, 238700
ABAT	100%	99,40%	100%	100%	GABA-transaminase deficiency, 613163
ABCA1	99,90%	99,10%	100%	100%	Tangier disease, 205400 HDL deficiency, familial, 1, 604091
ABCA12	99,50%	98,70%	100%	100%	Ichthyosis, congenital, autosomal recessive 4B (harlequin), 242500 Ichthyosis, congenital, autosomal recessive 4A, 601277
ABCA3	99,90%	99,30%	100%	100%	Surfactant metabolism dysfunction, pulmonary, 3, 610921
ABCA4	99,90%	99,30%	100%	100%	Retinal dystrophy, early-onset severe, 248200 Stargardt disease 1, 248200 Fundus flavimaculatus, 248200 Cone-rod dystrophy 3, 604116 Retinitis pigmentosa 19, 601718
ABCB11	100%	99,70%	100%	100%	Cholestasis, progressive familial intrahepatic 2, 601847 Cholestasis, benign recurrent intrahepatic, 2, 605479
ABCB4	99,90%	99,60%	100%	100%	Gallbladder disease 1, 600803 Cholestasis, intrahepatic, of pregnancy, 3, 614972 Cholestasis, progressive familial intrahepatic 3, 602347
ABCC2	100%	99,90%	100%	100%	Dubin-Johnson syndrome, 237500
ABCC6	93,60%	92,40%	100%	100%	Pseudoxanthoma elasticum, 264800 Pseudoxanthoma elasticum, forme fruste, 177850 Arterial calcification, generalized, of infancy, 2, 614473
ABCC8	100%	99,80%	100%	100%	Diabetes mellitus, permanent neonatal, 606176 Diabetes mellitus, noninsulin-dependent, 125853 Diabetes mellitus, transient neonatal 2, 610374 Hyperinsulinemic hypoglycemia, familial, 1, 256450 Hypoglycemia of infancy, leucine-sensitive, 240800
ABCD3	99,80%	97,70%	100%	100%	?Bile acid synthesis defect, congenital, 5, 616278
ABCD4	99,90%	98,60%	100%	100%	Methylmalonic aciduria and homocystinuria, cblJ type, 614857
ABCG5	100%	100%	100%	100%	Sitosterolemia 2, 618666
ABCG8	99,10%	97,30%	100%	100%	Sitosterolemia 1, 210250
ABHD12	98,70%	92,30%	100%	99,30%	Polyneuropathy, hearing loss, ataxia, retinitis pigmentosa, and cataract, 612674
ABHD5	100%	100%	100%	100%	Chanarin-Dorfman syndrome, 275630

ACACA	98,40%	98,10%	100%	100%	No OMIM disease ID
ACAD8	100%	100%	100%	100%	Isobutyryl-CoA dehydrogenase deficiency, 611283
ACAD9	100%	99,90%	100%	100%	Mitochondrial complex I deficiency, nuclear type 20, 611126
ACADM	99,80%	99,00%	100%	100%	Acyl-CoA dehydrogenase, medium chain, deficiency of, 201450
ACADS	99,90%	98,20%	100%	100%	Acyl-CoA dehydrogenase, short-chain, deficiency of, 201470
ACADSB	100%	99,20%	100%	100%	2-methylbutyrylglycinuria, 610006
ACADVL	99,40%	97,30%	100%	100%	VLCAD deficiency, 201475
ACAN	96,50%	92,70%	98,90%	98,70%	Short stature and advanced bone age, with or without early-onset osteoarthritis and/or osteochondritis dissecans, 165800 Spondyloepimetaphyseal dysplasia, aggrecan type, 612813 ?Spondyloepiphyseal dysplasia, Kimberley type, 608361
ACAT1	99,90%	97,50%	100%	100%	Alpha-methylacetoacetic aciduria, 203750
ACD	100%	99,90%	100%	100%	?Dyskeratosis congenita, autosomal dominant 6, 616553 ?Dyskeratosis congenita, autosomal recessive 7, 616553
ACE	99,90%	98,40%	100%	100%	Renal tubular dysgenesis, 267430
ACER3	99,80%	98,60%	100%	100%	?Leukodystrophy, progressive, early childhood-onset, 617762
ACO2	96,30%	90,30%	100%	100%	?Optic atrophy 9, 616289 Infantile cerebellar-retinal degeneration, 614559
ACOX1	100%	99,90%	100%	100%	Peroxisomal acyl-CoA oxidase deficiency, 264470
ACOX2	100%	99,20%	100%	100%	Bile acid synthesis defect, congenital, 6, 617308
ACP5	99,80%	98,30%	100%	100%	Spondyloenchondrodysplasia with immune dysregulation, 607944
ACSF3	100%	99,90%	100%	100%	Combined malonic and methylmalonic aciduria, 614265
ACTA1	99,60%	92,30%	100%	100%	Myopathy, actin, congenital, with cores, 161800 Nemaline myopathy 3, autosomal dominant or recessive, 161800 Myopathy, congenital, with fiber-type disproportion 1, 255310 Myopathy, actin, congenital, with excess of thin myofilaments, 161800 ?Myopathy, scapulohumeroperoneal, 616852
ACTL6B	100%	99,80%	100%	100%	Epileptic encephalopathy, early infantile, 76, 618468 Intellectual developmental disorder with severe speech and ambulation defects, 618470
ACY1	100%	98,80%	100%	100%	Aminoacylase 1 deficiency, 609924
ADA	100%	99,70%	100%	100%	Adenosine deaminase deficiency, partial, 102700 Severe combined immunodeficiency due to ADA deficiency, 102700
ADA2	100%	99,00%	100%	100%	?Sneddon syndrome, 182410 Vasculitis, autoinflammation, immunodeficiency, and hematologic defects syndrome, 615688
ADAM17	99,90%	99,00%	100%	100%	?Inflammatory skin and bowel disease, neonatal, 1, 614328
ADAM22	99,90%	99,50%	100%	100%	?Epileptic encephalopathy, early infantile, 61, 617933
ADAM9	99,80%	99,10%	100%	100%	Cone-rod dystrophy 9, 612775
ADAMTS10	99,90%	98,50%	100%	100%	Weill-Marchesani syndrome 1, recessive, 277600

<i>ADAMTS13</i>	97,10%	93,80%	99,90%	99,50%	Thrombotic thrombocytopenic purpura, hereditary, 274150
<i>ADAMTS17</i>	92,80%	89,00%	97,60%	95,80%	Weill-Marchesani 4 syndrome, recessive, 613195
<i>ADAMTS18</i>	100%	99,70%	100%	100%	Microcornea, myopic chorioretinal atrophy, and telecanthus, 615458
<i>ADAMTS2</i>	99,00%	96,60%	98,00%	97,80%	Ehlers-Danlos syndrome, dermatosparaxis type, 225410
<i>ADAMTS3</i>	100%	100%	100%	100%	Hennekam lymphangiectasia-lymphedema syndrome 3, 618154
<i>ADAMTSL2</i>	97,10%	93,30%	99,80%	99,40%	Geleophysic dysplasia 1, 231050
<i>ADAMTSL4</i>	100%	99,20%		100%	Ectopia lentis et pupillae, 225200 Ectopia lentis, isolated, autosomal recessive, 225100
<i>ADAR</i>	100%	99,80%	100%	100%	Aicardi-Goutieres syndrome 6, 615010 Dyschromatosis symmetrica hereditaria, 127400
<i>ADAT3</i>	100%	99,70%	100%	100%	Mental retardation, autosomal recessive 36, 615286
<i>ADCY1</i>	95,20%	93,80%	98,50%	97,90%	?Deafness, autosomal recessive 44, 610154
<i>ADCY6</i>	100%	100%	100%	100%	?Lethal congenital contracture syndrome 8, 616287
<i>ADD3</i>	99,90%	99,50%	100%	100%	Cerebral palsy, spastic quadriplegic, 3, 617008
<i>ADGRG1</i>	100%	100%	100%	100%	Polymicrogyria, bilateral perisylvian, 615752 Polymicrogyria, bilateral frontoparietal, 606854
<i>ADGRG6</i>	99,90%	99,00%	100%	100%	Lethal congenital contracture syndrome 9, 616503
<i>ADGRV1</i>	99,60%	98,60%	100%	100%	Usher syndrome, type 2C, 605472 ?Febrile seizures, familial, 4, 604352 Usher syndrome, type 2C, GPR98/PDZD7 digenic, 605472
<i>ADK</i>	99,50%	95,80%	100%	100%	Hypermethioninemia due to adenosine kinase deficiency, 614300
<i>ADPRHL2</i>	100%	99,80%	100%	100%	Neurodegeneration, childhood-onset, stress-induced, with variable ataxia and seizures, 618170
<i>ADSL</i>	99,20%	98,70%	100%	100%	Adenylosuccinase deficiency, 103050
<i>ADSSL1</i>	90,20%	87,50%	100%	100%	Myopathy, distal, 5, 617030
<i>AEBP1</i>	100%	100%	100%	100%	Ehlers-Danlos syndrome, classic-like, 2, 618000
<i>AFG3L2</i>	95,00%	91,10%	100%	99,90%	Spastic ataxia 5, autosomal recessive, 614487 Spinocerebellar atrophy 28, 610246
<i>AGA</i>	100%	100%	100%	100%	Aspartylglucosaminuria, 208400
<i>AGBL5</i>	99,90%	99,30%	100%	100%	Retinitis pigmentosa 75, 617023
<i>AGK</i>	99,90%	97,60%	100%	100%	Sengers syndrome, 212350 Cataract 38, autosomal recessive, 614691
<i>AGL</i>	100%	99,40%	100%	100%	Glycogen storage disease IIIb, 232400 Glycogen storage disease IIIa, 232400
<i>AGPAT2</i>	99,60%	96,10%	100%	100%	Lipodystrophy, congenital generalized, type 1, 608594
<i>AGPS</i>	99,30%	95,40%	100%	99,90%	Rhizomelic chondrodysplasia punctata, type 3, 600121
<i>AGRN</i>	96,90%	92,60%	100%	99,90%	Myasthenic syndrome, congenital, 8, with pre- and postsynaptic defects, 615120
<i>AGT</i>	100%	100%	100%	100%	Renal tubular dysgenesis, 267430

<i>AGTPBP1</i>	96,00%	94,10%	100%	100%	Neurodegeneration, childhood-onset, with cerebellar atrophy, 618276
<i>AGTR1</i>	92,00%	91,80%	100%	100%	Renal tubular dysgenesis, 267430
<i>AGXT</i>	100%	100%	100%	100%	Hyperoxaluria, primary, type 1, 259900
<i>AHCY</i>	100%	99,20%	100%	100%	Hypermethioninemia with deficiency of S-adenosylhomocysteine hydrolase, 613752
<i>AHI1</i>	99,70%	97,90%	100%	100%	Joubert syndrome 3, 608629
<i>AHR</i>	100%	99,60%	100%	100%	?Retinitis pigmentosa 85, 618345
<i>AHSG</i>	99,90%	99,50%	100%	100%	?Alopecia-mental retardation syndrome 1, 203650
<i>AICDA</i>	100%	100%	100%	100%	Immunodeficiency with hyper-IgM, type 2, 605258
<i>AIMP1</i>	99,20%	94,50%	100%	99,90%	Leukodystrophy, hypomyelinating, 3, 260600
<i>AIMP2</i>	88,90%	86,00%	100%	100%	Leukodystrophy, hypomyelinating, 17, 618006
<i>AIPL1</i>	100%	99,80%	100%	100%	Leber congenital amaurosis 4, 604393 Retinitis pigmentosa, juvenile, 604393 Cone-rod dystrophy, 604393
<i>AIRE</i>	100%	99,80%	100%	100%	Autoimmune polyendocrinopathy syndrome , type I, with or without reversible metaphyseal dysplasia, 240300
<i>AK1</i>	100%	100%	100%	100%	Hemolytic anemia due to adenylate kinase deficiency, 612631
<i>AK2</i>	98,80%	94,50%	100%	100%	Reticular dysgenesis, 267500
<i>AKR1C2</i>	94,90%	89,20%	100%	100%	46XY sex reversal 8, 614279
<i>AKR1D1</i>	100%	99,40%	100%	100%	Bile acid synthesis defect, congenital, 2, 235555
<i>ALAD</i>	99,30%	94,10%	100%	100%	Porphyria, acute hepatic, 612740
<i>ALB</i>	100%	99,40%	100%	100%	Analbuminemia, 616000
<i>ALDH18A1</i>	100%	99,90%	100%	100%	Cutis laxa, autosomal recessive, type IIIA, 219150 Cutis laxa, autosomal dominant 3, 616603 Spastic paraplegia 9B, autosomal recessive, 616586 Spastic paraplegia 9A, autosomal dominant, 601162
<i>ALDH1A3</i>	97,20%	94,50%	100%	99,90%	Microphthalmia, isolated 8, 615113
<i>ALDH3A2</i>	95,30%	94,60%	100%	100%	Sjogren-Larsson syndrome, 270200
<i>ALDH4A1</i>	100%	99,40%	100%	100%	Hyperprolinemia, type II, 239510
<i>ALDH5A1</i>	91,00%	81,50%	100%	100%	Succinic semialdehyde dehydrogenase deficiency, 271980
<i>ALDH6A1</i>	100%	99,90%	100%	100%	Methylmalonate semialdehyde dehydrogenase deficiency, 614105
<i>ALDH7A1</i>	94,40%	88,80%	100%	100%	Epilepsy, pyridoxine-dependent, 266100
<i>ALDOA</i>	75,50%	74,00%	100%	100%	Glycogen storage disease XII, 611881
<i>ALDOB</i>	100%	99,10%	100%	100%	Fructose intolerance, hereditary, 229600
<i>ALG1</i>	53,00%	45,80%	100%	100%	Congenital disorder of glycosylation, type I $\kappa$ , 608540
<i>ALG11</i>	96,80%	96,80%	96,80%	96,80%	Congenital disorder of glycosylation, type I $\rho$ , 613661
<i>ALG12</i>	100%	100%	100%	100%	Congenital disorder of glycosylation, type I $\gamma$ , 607143
<i>ALG14</i>	100%	99,90%	100%	100%	?Myasthenic syndrome, congenital, 15, without tubular aggregates, 616227

<i>ALG2</i>	100%	100%	100%	100%	Myasthenic syndrome, congenital, 14, with tubular aggregates, 616228 ?Congenital disorder of glycosylation, type Ii, 607906
<i>ALG3</i>	100%	99,70%	100%	100%	Congenital disorder of glycosylation, type Id, 601110
<i>ALG6</i>	98,60%	94,80%	100%	100%	Congenital disorder of glycosylation, type Ic, 603147
<i>ALG8</i>	97,20%	95,60%	96,60%	96,60%	Congenital disorder of glycosylation, type Ih, 608104 Polycystic liver disease 3 with or without kidney cysts, 617874
<i>ALG9</i>	100%	99,70%	100%	100%	Gillessen-Kaesbach-Nishimura syndrome, 263210 Congenital disorder of glycosylation, type II, 608776
<i>ALKBH8</i>	99,80%	98,90%	100%	100%	Intellectual developmental disorder, autosomal recessive 71, 618504
<i>ALMS1</i>	99,80%	99,50%	100%	100%	Alstrom syndrome, 203800
<i>ALOX12B</i>	100%	100%	100%	100%	Ichthyosis, congenital, autosomal recessive 2, 242100
<i>ALOXE3</i>	100%	99,50%	100%	100%	Ichthyosis, congenital, autosomal recessive 3, 606545
<i>ALPK3</i>	97,80%	94,60%	100%	100%	Cardiomyopathy, familial hypertrophic 27, 618052
<i>ALPL</i>	100%	100%	100%	100%	Hypophosphatasia, adult, 146300 Odontohypophosphatasia, 146300 Hypophosphatasia, childhood, 241510 Hypophosphatasia, infantile, 241500
<i>ALS2</i>	100%	99,90%	100%	100%	Primary lateral sclerosis, juvenile, 606353 Amyotrophic lateral sclerosis 2, juvenile, 205100 Spastic paralysis, infantile onset ascending, 607225
<i>ALX1</i>	99,70%	97,10%	100%	100%	Frontonasal dysplasia 3, 613456
<i>ALX3</i>	77,90%	73,30%	100%	100%	Frontonasal dysplasia 1, 136760
<i>ALX4</i>	100%	99,30%	100%	100%	Frontonasal dysplasia 2, 613451 Parietal foramina 2, 609597
<i>AMACR</i>	100%	100%	100%	100%	Bile acid synthesis defect, congenital, 4, 214950 Alpha-methylacyl-CoA racemase deficiency, 614307
<i>AMBН</i>	99,80%	98,50%	100%	100%	Amelogenesis imperfecta, type IF, 616270
<i>AMN</i>	89,70%	80,00%	100%	100%	Megaloblastic anemia-1, Norwegian type, 261100
<i>AMPD1</i>	99,90%	98,60%	100%	100%	Myopathy due to myoadenylate deaminase deficiency, 615511
<i>AMPD2</i>	99,80%	98,90%	100%	100%	?Spastic paraparesis 63, 615686 Pontocerebellar hypoplasia, type 9, 615809
<i>AMT</i>	100%	100%	100%	100%	Glycine encephalopathy, 605899
<i>ANAPC1</i>	59,40%	57,70%	100%	99,90%	Rothmund-Thomson syndrome, type 1, 618625
<i>ANGPTL3</i>	98,80%	95,40%	100%	100%	Hypobetalipoproteinemia, familial, 2, 605019
<i>ANK1</i>	100%	99,40%	100%	100%	Spherocytosis, type 1, 182900
<i>ANK3</i>	99,30%	99,00%	100%	100%	?Mental retardation, autosomal recessive, 37, 615493
<i>ANKH</i>	100%	100%	100%	100%	Chondrocalcinosis 2, 118600 Craniometaphyseal dysplasia, 123000

<i>ANKLE2</i>	99,90%	98,60%	100%	99,80%	Microcephaly 16, primary, autosomal recessive, 616681
<i>ANKS6</i>	93,80%	89,50%	97,90%	95,80%	Nephronophthisis 16, 615382
<i>ANO10</i>	99,80%	97,90%	100%	100%	Spinocerebellar ataxia, autosomal recessive 10, 613728
<i>ANOS1</i>	99,50%	97,30%	100%	100%	Miyoshi muscular dystrophy 3, 613319 Gnathodiaphyseal dysplasia, 166260 Muscular dystrophy, limb-girdle, autosomal recessive 12, 611307
<i>ANO6</i>	99,90%	98,70%	100%	100%	Scott syndrome, 262890
<i>ANTXR1</i>	99,70%	97,90%	100%	100%	GAPO syndrome, 230740
<i>ANTXR2</i>	100%	98,20%	100%	100%	Hyaline fibromatosis syndrome, 228600
<i>AP1S1</i>	99,90%	99,50%	100%	100%	MEDNIK syndrome, 609313
<i>AP3B1</i>	99,20%	95,80%	100%	100%	Hermansky-Pudlak syndrome 2, 608233
<i>AP3B2</i>	99,40%	95,10%	100%	100%	Epileptic encephalopathy, early infantile, 48, 617276
<i>AP3D1</i>	99,80%	98,60%	100%	100%	?Hermansky-Pudlak syndrome 10, 617050
<i>AP4B1</i>	99,90%	98,70%	100%	100%	Spastic paraplegia 47, autosomal recessive, 614066
<i>AP4E1</i>	99,80%	98,70%	100%	100%	Stuttering, familial persistent, 1, 184450 Spastic paraplegia 51, autosomal recessive, 613744
<i>AP4M1</i>	99,90%	98,90%	100%	100%	Spastic paraplegia 50, autosomal recessive, 612936
<i>AP4S1</i>	78,90%	71,30%	87,90%	87,90%	Spastic paraplegia 52, autosomal recessive, 614067
<i>AP5Z1</i>	100%	99,80%	100%	100%	Spastic paraplegia 48, autosomal recessive, 613647
<i>APC2</i>	97,60%	92,70%	99,90%	99,10%	?Sotos syndrome 3, 617169 Cortical dysplasia, complex, with other brain malformations 10, 618677
<i>APOB</i>	99,80%	99,30%	100%	100%	Hypobetalipoproteinemia, 615558 Hypercholesterolemia, familial, 2, 144010
<i>APOC2</i>	100%	100%	100%	100%	Hyperlipoproteinemia, type Ib, 207750
<i>APOE</i>	98,90%	90,70%	100%	100%	Hyperlipoproteinemia, type III, 617347 Lipoprotein glomerulopathy, 611771 Sea-blue histiocyte disease, 269600 Alzheimer disease 2, 104310
<i>APOPT1</i>	81,90%	80,70%	93,50%	93,40%	Mitochondrial complex IV deficiency, 220110
<i>APRT</i>	100%	99,50%	100%	100%	Adenine phosphoribosyltransferase deficiency, 614723
<i>APTX</i>	94,90%	92,50%	100%	100%	Ataxia, early-onset, with oculomotor apraxia and hypoalbuminemia, 208920
<i>AQP2</i>	100%	98,60%	100%	100%	Diabetes insipidus, nephrogenic, 125800
<i>ARFGEF2</i>	99,90%	99,10%	100%	100%	Periventricular heterotopia with microcephaly, 608097
<i>ARG1</i>	100%	100%	100%	100%	Argininemia, 207800
<i>ARHGDIA</i>	100%	100%	100%	100%	Nephrotic syndrome, type 8, 615244
<i>ARHGEF18</i>	95,40%	92,30%	100%	100%	Retinitis pigmentosa 78, 617433
<i>ARHGEF2</i>	100%	99,90%	100%	100%	?Neurodevelopmental disorder with midbrain and hindbrain malformations, 617523

<i>ARL13B</i>	100%	99,20%	100%	100%	Joubert syndrome 8, 612291
<i>ARL2BP</i>	95,90%	88,30%	100%	100%	Retinitis pigmentosa with or without situs inversus, 615434
<i>ARL3</i>	100%	98,40%	100%	100%	Joubert syndrome 35, 618161 Retinitis pigmentosa 83, 618173
<i>ARL6</i>	99,90%	98,60%	100%	100%	?Retinitis pigmentosa 55, 613575 Bardet-Biedl syndrome 3, 600151
<i>ARL6IP1</i>	99,40%	92,60%	100%	100%	?Spastic paraplegia 61, autosomal recessive, 615685
<i>ARMC4</i>	95,60%	93,50%	100%	100%	Ciliary dyskinesia, primary, 23, 615451
<i>ARMC9</i>	100%	99,80%	100%	100%	Joubert syndrome 30, 617622
<i>ARNT2</i>	100%	100%	100%	99,60%	?Webb-Dattani syndrome, 615926
<i>ARPC1B</i>	100%	100%	100%	100%	Platelet abnormalities with eosinophilia and immune-mediated inflammatory disease, 617718
<i>ARSA</i>	100%	99,80%	100%	100%	Metachromatic leukodystrophy, 250100
<i>ARSB</i>	96,90%	88,30%	100%	100%	Mucopolysaccharidosis type VI (Maroteaux-Lamy), 253200
<i>ARSG</i>	100%	99,50%	100%	100%	Usher syndrome, type IV, 618144
<i>ARV1</i>	100%	99,90%	100%	100%	Epileptic encephalopathy, early infantile, 38, 617020
<i>ASAHI</i>	99,70%	98,60%	100%	100%	Farber lipogranulomatosis, 228000 Spinal muscular atrophy with progressive myoclonic epilepsy, 159950
<i>ASCC1</i>	97,70%	94,40%	91,10%	91,10%	Barrett esophagus/esophageal adenocarcinoma, 614266 Spinal muscular atrophy with congenital bone fractures 2, 616867
<i>ASL</i>	100%	99,60%	100%	100%	Argininosuccinic aciduria, 207900
<i>ASNS</i>	99,40%	95,20%	100%	100%	Asparagine synthetase deficiency, 615574
<i>ASPA</i>	99,90%	98,30%	100%	100%	Canavan disease, 271900
<i>ASPH</i>	99,90%	98,80%	100%	100%	Traboulsi syndrome, 601552
<i>ASPM</i>	99,70%	98,20%	100%	100%	Microcephaly 5, primary, autosomal recessive, 608716
<i>ASS1</i>	95,40%	87,90%	100%	100%	Citrullinemia, 215700
<i>ATAD1</i>	99,60%	95,10%	100%	100%	Hyperekplexia 4, 618011
<i>ATAD3A</i>	91,90%	83,20%	100%	100%	Harel-Yoon syndrome, 617183 ?Pontocerebellar hypoplasia, hypotonia, and respiratory insufficiency syndrome, neonatal lethal, 618810
<i>ATCAY</i>	100%	99,80%	100%	100%	Ataxia, cerebellar, Cayman type, 601238
<i>ATF6</i>	100%	99,90%	100%	100%	Achromatopsia 7, 616517
<i>ATG5</i>	99,40%	97,80%	100%	100%	?Spinocerebellar ataxia, autosomal recessive 25, 617584
<i>ATIC</i>	99,90%	99,30%	100%	100%	AICA-ribosiduria due to ATIC deficiency, 608688
<i>ATM</i>	99,80%	98,10%	100%	100%	Ataxia-telangiectasia, 208900 Lymphoma, mantle cell, somatic, 0 Lymphoma, B-cell non-Hodgkin, somatic, 0 T-cell prolymphocytic leukemia, somatic, 0
<i>ATOH7</i>	96,00%	91,20%	99,10%	94,40%	Persistent hyperplastic primary vitreous, autosomal recessive, 221900

<i>ATP13A2</i>	100%	99,50%	100%	100%	Kufor-Rakeb syndrome, 606693 Spastic paraplegia 78, autosomal recessive, 617225
<i>ATP2A1</i>	100%	100%	100%	100%	Brody myopathy, 601003
<i>ATP5A1</i>	95,20%	87,60%	100%	100%	?Mitochondrial complex V (ATP synthase) deficiency, nuclear type 4, 615228 ?Combined oxidative phosphorylation deficiency 22, 616045
<i>ATP5D</i>	96,20%	89,30%	100%	100%	Mitochondrial complex V (ATP synthase) deficiency, 618120
<i>ATP5E</i>	100%	100%	100%	100%	?Mitochondrial complex V (ATP synthase) deficiency, nuclear type 3, 614053
<i>ATP6V0A2</i>	100%	99,50%	100%	100%	Wrinkly skin syndrome, 278250 Cutis laxa, autosomal recessive, type IIA, 219200
<i>ATP6V0A4</i>	100%	99,90%	100%	100%	Renal tubular acidosis, distal, autosomal recessive, 602722
<i>ATP6V1A</i>	99,90%	98,70%	100%	100%	Epileptic encephalopathy, infantile or early childhood, 3, 618012 Cutis laxa, autosomal recessive, type IIC, 617403
<i>ATP6V1B1</i>	100%	100%	100%	100%	Renal tubular acidosis with deafness, 267300
<i>ATP6V1E1</i>	93,10%	88,30%	100%	100%	Cutis laxa, autosomal recessive, type IIC, 617402
<i>ATP7B</i>	99,90%	99,20%	100%	100%	Wilson disease, 277900
<i>ATP8A2</i>	100%	99,70%	100%	100%	?Cerebellar ataxia, mental retardation, and dysequilibrium syndrome 4, 615268
<i>ATP8B1</i>	96,50%	94,00%	100%	100%	Cholestasis, intrahepatic, of pregnancy, 1, 147480 Cholestasis, progressive familial intrahepatic 1, 211600 Cholestasis, benign recurrent intrahepatic, 243300
<i>ATPAF2</i>	100%	100%	100%	100%	?Mitochondrial complex V (ATP synthase) deficiency, nuclear type 1, 604273
<i>ATR</i>	99,90%	99,40%	100%	100%	Seckel syndrome 1, 210600 ?Cutaneous telangiectasia and cancer syndrome, familial, 614564
<i>AUH</i>	100%	99,80%	100%	100%	3-methylglutaconic aciduria, type I, 250950
<i>AURKC</i>	100%	99,20%	100%	100%	Spermatogenic failure 5, 243060
<i>B2M</i>	100%	100%	100%	100%	Immunodeficiency 43, 241600 ?Amyloidosis, familial visceral, 105200
<i>B3GALNT2</i>	93,80%	89,40%	92,50%	92,50%	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies, type A, 11, 615181
<i>B3GALT6</i>	75,70%	69,70%	89,80%	81,60%	Al-Gazali syndrome, 609465 Ehlers-Danlos syndrome, spondylodysplastic type, 2, 615349 Spondyloepimetaphyseal dysplasia with joint laxity, type 1, with or without fractures, 271640
<i>B3GAT3</i>	99,90%	98,20%	94,80%	94,80%	Multiple joint dislocations, short stature, craniofacial dysmorphism, with or without congenital heart defects, 245600
<i>B3GLCT</i>	99,60%	96,30%	99,90%	99,20%	Peters-plus syndrome, 261540
<i>B4GALNT1</i>	99,30%	95,00%	100%	100%	Spastic paraplegia 26, autosomal recessive, 609195
<i>B4GALT1</i>	100%	99,80%	100%	100%	Congenital disorder of glycosylation, type IIId, 607091
<i>B4GALT7</i>	99,80%	97,40%	99,90%	98,60%	Ehlers-Danlos syndrome, spondylodysplastic type, 1, 130070
<i>B4GAT1</i>	100%	100%	100%	100%	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 13, 615287

<i>B9D1</i>	92,20%	92,00%	100%	100%	?Meckel syndrome 9, 614209 Joubert syndrome 27, 617120
<i>B9D2</i>	100%	100%	100%	100%	Joubert syndrome 34, 614175 ?Meckel syndrome 10, 614175
<i>BAAT</i>	99,80%	98,40%	100%	100%	Hypercholanemia, familial, 607748
<i>BANF1</i>	98,30%	86,60%	100%	100%	Nestor-Guillermo progeria syndrome, 614008
<i>BBIP1</i>	98,60%	92,40%	100%	100%	?Bardet-Biedl syndrome 18, 615995
<i>BBS1</i>	100%	100%	100%	100%	Bardet-Biedl syndrome 1, 209900
<i>BBS10</i>	100%	99,80%	100%	100%	Bardet-Biedl syndrome 10, 615987
<i>BBS12</i>	100%	100%	100%	100%	Bardet-Biedl syndrome 12, 615989
<i>BBS2</i>	100%	99,50%	100%	100%	Bardet-Biedl syndrome 2, 615981 Retinitis pigmentosa 74, 616562
<i>BBS4</i>	99,90%	99,30%	100%	100%	Bardet-Biedl syndrome 4, 615982
<i>BBS5</i>	99,00%	93,90%	100%	100%	Bardet-Biedl syndrome 5, 615983
<i>BBS7</i>	98,70%	95,50%	100%	100%	Bardet-Biedl syndrome 7, 615984
<i>BBS9</i>	99,70%	97,60%	100%	100%	Bardet-Biedl syndrome 9, 615986
<i>BCKDHA</i>	99,90%	99,20%	100%	100%	Maple syrup urine disease, type Ia, 248600
<i>BCKDHB</i>	99,50%	94,40%	100%	100%	Maple syrup urine disease, type Ib, 248600
<i>BCKDK</i>	100%	100%	100%	100%	Branched-chain ketoacid dehydrogenase kinase deficiency, 614923
<i>BCL10</i>	100%	100%	100%	100%	?Immunodeficiency 37, 616098 Lymphoma, MALT, somatic, 137245
<i>BCS1L</i>	100%	100%	100%	100%	Leigh syndrome, 256000 GRACILE syndrome, 603358 Bjornstad syndrome, 262000 Mitochondrial complex III deficiency, nuclear type 1, 124000
<i>BFSP1</i>	99,00%	89,90%	100%	99,90%	Cataract 33, multiple types, 611391
<i>BFSP2</i>	99,80%	97,60%	100%	100%	Cataract 12, multiple types, 611597
<i>BHLHA9</i>	70,90%	50,40%	99,80%	97,30%	Syndactyly, mesoaxial synostotic, with phalangeal reduction, 609432 ?Camptosynpolydactyly, complex, 607539
<i>BIN1</i>	99,60%	95,70%	100%	100%	Centronuclear myopathy 2, 255200
<i>BLM</i>	99,80%	98,30%	100%	100%	Bloom syndrome, 210900
<i>BLNK</i>	97,10%	95,50%	100%	100%	?Agammaglobulinemia 4, 613502
<i>BLOC1S3</i>	98,50%	81,30%	100%	100%	Hermansky-Pudlak syndrome 8, 614077
<i>BLOC1S6</i>	99,90%	97,10%	94,90%	94,90%	?Hermansky-pudlak syndrome 9, 614171
<i>BLVRA</i>	100%	99,40%	100%	100%	Hyperbiliverdinemia, 614156
<i>BMP1</i>	100%	100%	100%	100%	Osteogenesis imperfecta, type XIII, 614856
<i>BMPER</i>	100%	99,80%	100%	100%	Diaphanospondylodysostosis, 608022

<i>BMPR1B</i>	100%	99,90%	100%	100%	Brachydactyly, type A2, 112600 Brachydactyly, type A1, D, 616849 Acromesomelic dysplasia, Demirhan type, 609441
<i>BOLA3</i>	99,40%	90,20%	100%	100%	Multiple mitochondrial dysfunctions syndrome 2 with hyperglycinemia, 614299
<i>BPGM</i>	100%	100%	100%	100%	Erythrocytosis, familial, 8, 222800
<i>BRAT1</i>	99,70%	98,20%	100%	100%	Rigidity and multifocal seizure syndrome, lethal neonatal, 614498 Neurodevelopmental disorder with cerebellar atrophy and with or without seizures, 618056
<i>BRCA1</i>	99,40%	98,80%	100%	100%	Fanconi anemia, complementation group S, 617883
<i>BRCA2</i>	99,80%	98,50%	100%	100%	Wilms tumor, 194070 Fanconi anemia, complementation group D1, 605724
<i>BRF1</i>	99,90%	98,40%	100%	100%	Cerebellofaciodental syndrome, 616202
<i>BRIP1</i>	99,90%	99,00%	100%	100%	Fanconi anemia, complementation group J, 609054
<i>BSCL2</i>	100%	100%	100%	100%	Lipodystrophy, congenital generalized, type 2, 269700 Silver spastic paraplegia syndrome, 270685 Neuropathy, distal hereditary motor, type VA, 600794 Encephalopathy, progressive, with or without lipodystrophy, 615924
<i>BSND</i>	100%	100%	100%	100%	Bartter syndrome, type 4a, 602522 Sensorineural deafness with mild renal dysfunction, 602522
<i>BTD</i>	100%	99,90%	100%	100%	Biotinidase deficiency, 253260
<i>BUB1B</i>	99,60%	98,90%	100%	100%	Colorectal cancer, somatic, 114500 Mosaic variegated aneuploidy syndrome 1, 257300
<i>BVES</i>	99,90%	98,80%	100%	100%	Muscular dystrophy, limb-girdle, autosomal recessive 25, 616812
<i>C12orf4</i>	100%	99,30%	100%	100%	Mental retardation, autosomal recessive 66, 618221
<i>C12orf57</i>	100%	98,90%	100%	100%	Temptamy syndrome, 218340
<i>C12orf65</i>	99,80%	98,50%	100%	100%	Spastic paraplegia 55, autosomal recessive, 615035 Combined oxidative phosphorylation deficiency 7, 613559
<i>C15orf41</i>	100%	99,80%	96,30%	96,30%	Dyserythropoietic anemia, congenital, type Ib, 615631
<i>C19orf12</i>	100%	99,80%	100%	100%	Neurodegeneration with brain iron accumulation 4, 614298 ?Spastic paraplegia 43, autosomal recessive, 615043
<i>C19orf70</i>	100%	99,70%	100%	99,70%	Combined oxidative phosphorylation deficiency 37, 618329
<i>C1QA</i>	100%	100%	100%	100%	C1q deficiency, 613652
<i>C1QB</i>	100%	100%	100%	100%	C1q deficiency, 613652
<i>C1QBP</i>	86,90%	77,30%	100%	100%	Combined oxidative phosphorylation deficiency 33, 617713
<i>C1QC</i>	100%	99,20%	100%	100%	C1q deficiency, 613652
<i>C1S</i>	99,90%	99,00%	99,50%	97,70%	Ehlers-Danlos syndrome, periodontal type, 2, 617174 C1s deficiency, 613783
<i>C2</i>	100%	100%	100%	100%	C2 deficiency, 217000

<i>C21orf2</i>	100%	99,30%	100%	100%	Spondylometaphyseal dysplasia, axial, 602271 Retinal dystrophy with macular staphyloma, 617547
<i>C21orf59</i>	100%	99,70%	100%	100%	Ciliary dyskinesia, primary, 26, 615500
<i>C2CD3</i>	95,80%	95,60%	95,90%	95,90%	Orofaciodigital syndrome XIV, 615948
<i>C2orf71</i>	99,60%	98,50%	100%	100%	Retinitis pigmentosa 54, 613428
<i>C3</i>	99,90%	99,20%	100%	100%	C3 deficiency, 613779
<i>C4A</i>	98,40%	95,10%	99,60%	99,20%	C4a deficiency, 614380
<i>C4B</i>	99,20%	96,90%	99,90%	99,80%	C4B deficiency, 614379
<i>C4orf26</i>	100%	100%	100%	100%	Amelogenesis imperfecta, type IIA4, 614832
<i>C5</i>	99,90%	98,50%	100%	100%	C5 deficiency, 609536
<i>C5orf42</i>	99,70%	98,40%	100%	100%	Joubert syndrome 17, 614615 Orofaciodigital syndrome VI, 277170
<i>C7orf43</i>	100%	99,40%	100%	100%	?Microcephaly 25, primary, autosomal recessive, 618351
<i>C8A</i>	100%	99,60%	100%	100%	C8 deficiency, type I, 613790
<i>C8B</i>	100%	99,20%	100%	100%	C8 deficiency, type II, 613789
<i>C8orf37</i>	100%	99,40%	100%	100%	Retinitis pigmentosa 64, 614500 Bardet-Biedl syndrome 21, 617406 Cone-rod dystrophy 16, 614500
<i>C9</i>	99,90%	99,50%	100%	100%	C9 deficiency, 613825
<i>CA12</i>	100%	100%	100%	100%	Hyperchlorhidrosis, isolated, 143860
<i>CA2</i>	100%	100%	100%	100%	Osteopetrosis, autosomal recessive 3, with renal tubular acidosis, 259730
<i>CA5A</i>	99,70%	97,10%	100%	100%	Hyperammonemia due to carbonic anhydrase VA deficiency, 615751
<i>CA8</i>	99,60%	97,30%	100%	100%	Cerebellar ataxia and mental retardation with or without quadrupedal locomotion 3, 613227
<i>CABP2</i>	75,90%	68,00%	100%	100%	Deafness, autosomal recessive 93, 614899
<i>CABP4</i>	100%	99,90%	100%	100%	Cone-rod synaptic disorder, congenital nonprogressive, 610427
<i>CACNA1B</i>	97,50%	95,70%	99,10%	97,70%	Neurodevelopmental disorder with seizures and nonepileptic hyperkinetic movements, 618497
<i>CACNA1D</i>	98,00%	97,90%	100%	100%	Sinoatrial node dysfunction and deafness, 614896 Primary aldosteronism, seizures, and neurologic abnormalities, 615474
<i>CACNA2D2</i>	94,00%	93,20%	99,20%	97,60%	Cerebellar atrophy with seizures and variable developmental delay, 618501
<i>CACNA2D4</i>	98,90%	97,70%	100%	100%	Retinal cone dystrophy 4, 610478
<i>CAD</i>	100%	99,20%	100%	100%	Epileptic encephalopathy, early infantile, 50, 616457
<i>CAMK2A</i>	100%	99,60%	100%	100%	?Mental retardation, autosomal recessive 63, 618095 Mental retardation, autosomal dominant 53, 617798
<i>CANT1</i>	100%	99,90%	100%	100%	Desbuquois dysplasia 1, 251450 Epiphyseal dysplasia, multiple, 7, 617719
<i>CAPN1</i>	100%	100%	100%	100%	Spastic paraplegia 76, autosomal recessive, 616907
<i>CAPN10</i>	100%	99,60%	100%	100%	No OMIM disease ID

<i>CAPN3</i>	100%	99,30%	100%	100%	Muscular dystrophy, limb-girdle, autosomal recessive 1, 253600 Muscular dystrophy, limb-girdle, autosomal dominant 4, 618129
<i>CARD11</i>	100%	99,90%	100%	100%	Immunodeficiency 11B with atopic dermatitis, 617638 B-cell expansion with NFKB and T-cell anergy, 616452 Immunodeficiency 11A, 615206
<i>CARD9</i>	99,90%	98,40%	100%	100%	Candidiasis, familial, 2, autosomal recessive, 212050
<i>CARS2</i>	100%	100%	100%	99,20%	Combined oxidative phosphorylation deficiency 27, 616672
<i>CASP14</i>	100%	100%	100%	100%	Ichthyosis, congenital, autosomal recessive 12, 617320
<i>CASP8</i>	95,60%	95,40%	95,60%	95,60%	?Autoimmune lymphoproliferative syndrome, type IIB, 607271 Hepatocellular carcinoma, somatic, 114550
<i>CASQ2</i>	100%	100%	100%	100%	Ventricular tachycardia, catecholaminergic polymorphic, 2, 611938
<i>CASR</i>	100%	99,90%	100%	100%	Hypocalcemia, autosomal dominant, with Bartter syndrome, 601198 Hypocalciuric hypercalcemia, type I, 145980 Hypocalcemia, autosomal dominant, 601198 Hyperparathyroidism, neonatal, 239200
<i>CAST</i>	98,30%	95,40%	100%	100%	Peeling skin with leukonychia, acral punctate keratoses, cheilitis, and knuckle pads, 616295
<i>CAT</i>	100%	100%	100%	100%	Acatalasemia, 614097
<i>CATSPER1</i>	100%	100%	100%	100%	Spermatogenic failure 7, 612997
<i>CAV1</i>	100%	100%	100%	100%	Pulmonary hypertension, primary, 3, 615343 Lipodystrophy, familial partial, type 7, 606721 ?Lipodystrophy, congenital generalized, type 3, 612526
<i>CAVIN1</i>	100%	100%	100%	100%	Lipodystrophy, congenital generalized, type 4, 613327
<i>CBS</i>	99,80%	98,30%	100%	100%	Homocystinuria, B6-responsive and nonresponsive types, 236200 Thrombosis, hyperhomocysteinemic, 236200
<i>CBX2</i>	100%	99,80%	100%	100%	?46XY sex reversal 5, 613080
<i>CC2D1A</i>	100%	99,30%	100%	100%	Mental retardation, autosomal recessive 3, 608443
<i>CC2D2A</i>	99,70%	97,70%	98,20%	98,20%	Meckel syndrome 6, 612284 Joubert syndrome 9, 612285 COACH syndrome, 216360
<i>CCBE1</i>	99,80%	98,80%	100%	100%	Hennekam lymphangiectasia-lymphedema syndrome 1, 235510
<i>CCDC103</i>	100%	100%	100%	100%	Ciliary dyskinesia, primary, 17, 614679
<i>CCDC114</i>	100%	100%	100%	100%	Ciliary dyskinesia, primary, 20, 615067
<i>CCDC115</i>	95,30%	90,00%	100%	100%	Congenital disorder of glycosylation, type IIo, 616828
<i>CCDC151</i>	100%	99,70%	100%	100%	Ciliary dyskinesia, primary, 30, 616037
<i>CCDC174</i>	99,50%	97,10%	100%	100%	Hypotonia, infantile, with psychomotor retardation, 616816
<i>CCDC39</i>	99,50%	96,50%	100%	100%	Ciliary dyskinesia, primary, 14, 613807
<i>CCDC40</i>	99,10%	98,10%	100%	100%	Ciliary dyskinesia, primary, 15, 613808
<i>CCDC47</i>	99,40%	97,50%	100%	100%	Trichohepatoneurodevelopmental syndrome, 618268

<i>CCDC65</i>	99,60%	97,10%	100%	100%	Ciliary dyskinesia, primary, 27, 615504
<i>CCDC8</i>	100%	100%	100%	100%	3-M syndrome 3, 614205
<i>CCDC88A</i>	98,90%	95,40%	100%	100%	?PEHO syndrome-like, 617507
<i>CCDC88C</i>	100%	99,30%	100%	100%	?Spinocerebellar ataxia 40, 616053 Hydrocephalus, congenital, 1, 236600
<i>CCNO</i>	100%	99,20%	100%	100%	Ciliary dyskinesia, primary, 29, 615872
<i>CCT5</i>	100%	99,70%	100%	100%	Neuropathy, hereditary sensory, with spastic paraplegia, 256840
<i>CD151</i>	100%	100%	100%	100%	Nephropathy with pretibial epidermolysis bullosa and deafness, 609057
<i>CD19</i>	100%	100%	100%	100%	Immunodeficiency, common variable, 3, 613493
<i>CD247</i>	100%	100%	100%	100%	?Immunodeficiency 25, 610163
<i>CD27</i>	99,90%	96,90%	100%	100%	Lymphoproliferative syndrome 2, 615122
<i>CD2AP</i>	99,90%	98,80%	100%	100%	Glomerulosclerosis, focal segmental, 3, 607832
<i>CD320</i>	100%	99,80%	100%	100%	Methylmalonic aciduria, transient, due to transcobalamin receptor defect, 613646
<i>CD3D</i>	100%	100%	100%	100%	Immunodeficiency 19, 615617
<i>CD3E</i>	100%	99,50%	100%	100%	Immunodeficiency 18, SCID variant, 615615 Immunodeficiency 18, 615615
<i>CD3G</i>	100%	100%	100%	100%	Immunodeficiency 17, CD3 gamma deficient, 615607
<i>CD40</i>	100%	100%	100%	100%	Immunodeficiency with hyper-IgM, type 3, 606843
<i>CD55</i>	92,20%	84,30%	99,20%	97,10%	Complement hyperactivation, angiopathic thrombosis, and protein-losing enteropathy, 226300
<i>CD59</i>	95,10%	86,60%	79,50%	79,50%	Hemolytic anemia, CD59-mediated, with or without immune-mediated polyneuropathy, 612300
<i>CD79A</i>	100%	100%	100%	100%	Agammaglobulinemia 3, 613501
<i>CD79B</i>	100%	100%	100%	100%	Agammaglobulinemia 6, 612692
<i>CD81</i>	100%	99,90%	100%	100%	Immunodeficiency, common variable, 6, 613496
<i>CD8A</i>	100%	99,80%	100%	100%	CD8 deficiency, familial, 608957
<i>CDAN1</i>	100%	99,60%	100%	100%	Dyserythropoietic anemia, congenital, type Ia, 224120
<i>CDC14A</i>	100%	98,90%	100%	100%	Deafness, autosomal recessive 32, with or without immotile sperm, 608653
<i>CDC45</i>	99,80%	98,50%	100%	100%	Meier-Gorlin syndrome 7, 617063
<i>CDC6</i>	100%	100%	100%	100%	?Meier-Gorlin syndrome 5, 613805
<i>CDCA7</i>	100%	99,60%	100%	100%	Immunodeficiency-centromeric instability-facial anomalies syndrome 3, 616910
<i>CDH11</i>	100%	100%	100%	100%	Elsahy-Waters syndrome, 211380
<i>CDH23</i>	100%	100%	100%	100%	Deafness, autosomal recessive 12, 601386 Usher syndrome, type 1D/F digenic, 601067 Usher syndrome, type 1D, 601067
<i>CDH3</i>	100%	99,50%	100%	100%	Ectodermal dysplasia, ectrodactyly, and macular dystrophy, 225280 Hypotrichosis, congenital, with juvenile macular dystrophy, 601553
<i>CDHR1</i>	99,20%	98,10%	100%	100%	Cone-rod dystrophy 15, 613660 Retinitis pigmentosa 65, 613660

<i>CDK10</i>	100%	99,90%	100%	100%	Al Kaissi syndrome, 617694
<i>CDK5</i>	100%	100%	100%	100%	?Lissencephaly 7 with cerebellar hypoplasia, 616342
<i>CDK5RAP2</i>	99,80%	98,90%	100%	100%	Microcephaly 3, primary, autosomal recessive, 604804
<i>CDK6</i>	100%	99,60%	100%	100%	?Microcephaly 12, primary, autosomal recessive, 616080
<i>CDSN</i>	100%	100%	100%	100%	Hypotrichosis 2, 146520 Peeling skin syndrome 1, 270300
<i>CDT1</i>	99,70%	97,50%	100%	99,10%	Meier-Gorlin syndrome 4, 613804
<i>CEACAM16</i>	100%	99,50%	100%	100%	Deafness, autosomal recessive 113, 618410 Deafness, autosomal dominant 4B, 614614
<i>CEBPE</i>	100%	100%	100%	100%	Specific granule deficiency, 245480
<i>CENPE</i>	98,20%	92,20%	100%	100%	?Microcephaly 13, primary, autosomal recessive, 616051
<i>CENPF</i>	99,80%	98,50%	100%	100%	Stromme syndrome, 243605
<i>CENPJ</i>	100%	99,60%	100%	100%	Microcephaly 6, primary, autosomal recessive, 608393 ?Seckel syndrome 4, 613676
<i>CEP104</i>	100%	99,20%	100%	100%	Joubert syndrome 25, 616781
<i>CEP120</i>	100%	99,50%	100%	100%	Joubert syndrome 31, 617761 Short-rib thoracic dysplasia 13 with or without polydactyly, 616300
<i>CEP135</i>	99,10%	93,60%	100%	100%	Microcephaly 8, primary, autosomal recessive, 614673
<i>CEP152</i>	99,70%	98,20%	100%	100%	Microcephaly 9, primary, autosomal recessive, 614852 Seckel syndrome 5, 613823
<i>CEP164</i>	99,90%	98,30%	100%	100%	Nephronophthisis 15, 614845
<i>CEP19</i>	100%	100%	100%	100%	Morbid obesity and spermatogenic failure, 615703
<i>CEP290</i>	96,10%	90,00%	100%	100%	?Bardet-Biedl syndrome 14, 615991 Leber congenital amaurosis 10, 611755 Senior-Loken syndrome 6, 610189 Meckel syndrome 4, 611134 Joubert syndrome 5, 610188
<i>CEP41</i>	99,80%	97,40%	100%	100%	Joubert syndrome 15, 614464
<i>CEP55</i>	100%	99,80%	100%	100%	Multinucleated neurons, anhydramnios, renal dysplasia, cerebellar hypoplasia, and hydranencephaly, 236500
<i>CEP57</i>	99,20%	93,00%	100%	100%	Mosaic variegated aneuploidy syndrome 2, 614114
<i>CEP63</i>	99,30%	96,50%	100%	100%	?Seckel syndrome 6, 614728
<i>CEP78</i>	99,70%	97,60%	100%	100%	Cone-rod dystrophy and hearing loss, 617236
<i>CEP83</i>	99,80%	97,40%	100%	100%	Nephronophthisis 18, 615862
<i>CEP89</i>	96,00%	94,50%	100%	100%	No OMIM disease ID
<i>CERKL</i>	99,50%	96,90%	100%	100%	Retinitis pigmentosa 26, 608380
<i>CERS1</i>	75,40%	63,70%	94,20%	86,40%	?Epilepsy, progressive myoclonic, 8, 616230

<i>CERS3</i>	99,90%	98,90%	100%	100%	Ichthyosis, congenital, autosomal recessive 9, 615023
<i>CFAP53</i>	99,60%	97,40%	100%	100%	Heterotaxy, visceral, 6, autosomal recessive, 614779
<i>CFD</i>	89,30%	83,70%	100%	100%	Complement factor D deficiency, 613912
<i>CFH</i>	99,90%	99,00%	100%	99,90%	Basal laminar drusen, 126700 Complement factor H deficiency, 609814
<i>CFI</i>	99,20%	96,80%	100%	100%	Complement factor I deficiency, 610984
<i>CFL2</i>	100%	99,60%	100%	100%	Nemaline myopathy 7, autosomal recessive, 610687
<i>CFTR</i>	99,60%	97,90%	100%	100%	Cystic fibrosis, 219700 Congenital bilateral absence of vas deferens, 277180 Sweat chloride elevation without CF, 0
<i>CHAT</i>	93,50%	85,70%	100%	100%	Myasthenic syndrome, congenital, 6, presynaptic, 254210
<i>CHKB</i>	100%	99,70%	100%	100%	Muscular dystrophy, congenital, megaconial type, 602541
<i>CHMP1A</i>	100%	99,80%	100%	100%	Pontocerebellar hypoplasia, type 8, 614961
<i>CHP1</i>	98,50%	89,10%	100%	100%	?Spastic ataxia 9, autosomal recessive, 618438
<i>CHRM3</i>	100%	100%	100%	100%	?Prune belly syndrome, 100100
<i>CHRNA1</i>	94,70%	94,00%	100%	100%	Myasthenic syndrome, congenital, 1A, slow-channel, 601462 Myasthenic syndrome, congenital, 1B, fast-channel, 608930 Multiple pterygium syndrome, lethal type, 253290
<i>CHRNB1</i>	100%	99,40%	100%	100%	?Myasthenic syndrome, congenital, 2C, associated with acetylcholine receptor deficiency, 616314 Myasthenic syndrome, congenital, 2A, slow-channel, 616313
<i>CHRND</i>	99,70%	97,90%	100%	100%	?Myasthenic syndrome, congenital, 3C, associated with acetylcholine receptor deficiency, 616323 ?Myasthenic syndrome, congenital, 3A, slow-channel, 616321 Myasthenic syndrome, congenital, 3B, fast-channel, 616322 Multiple pterygium syndrome, lethal type, 253290
<i>CHRNE</i>	100%	100%	100%	100%	Myasthenic syndrome, congenital, 4A, slow-channel, 605809 Myasthenic syndrome, congenital, 4C, associated with acetylcholine receptor deficiency, 608931 Myasthenic syndrome, congenital, 4B, fast-channel, 616324
<i>CHRNG</i>	100%	100%	100%	100%	Escobar syndrome, 265000 Multiple pterygium syndrome, lethal type, 253290
<i>CHST11</i>	100%	100%	100%	100%	?Osteochondrodysplasia, brachydactyly, and overlapping malformed digits, 618167
<i>CHST14</i>	99,90%	98,90%	100%	100%	Ehlers-Danlos syndrome, musculocontractural type 1, 601776
<i>CHST3</i>	100%	99,40%	100%	100%	Spondyloepiphyseal dysplasia with congenital joint dislocations, 143095
<i>CHST6</i>	100%	100%	100%	100%	Macular corneal dystrophy, 217800
<i>CHST8</i>	100%	100%	100%	100%	?Peeling skin syndrome 3, 616265
<i>CHSY1</i>	97,20%	95,70%	99,70%	98,00%	Temptamy preaxial brachydactyly syndrome, 605282
<i>CHUK</i>	100%	99,10%	100%	100%	Cocoon syndrome, 613630
<i>CIB2</i>	99,70%	97,00%	100%	99,90%	Deafness, autosomal recessive 48, 609439 Usher syndrome, type IJ, 614869

<i>CIDE</i>	100%	97,90%	100%	100%	?Lipodystrophy, familial partial, type 5, 615238
<i>CIITA</i>	100%	99,50%	100%	100%	Bare lymphocyte syndrome, type II, complementation group A, 209920
<i>CISD2</i>	83,40%	83,40%	100%	100%	Wolfram syndrome 2, 604928
<i>CIT</i>	100%	99,40%	100%	100%	Microcephaly 17, primary, autosomal recessive, 617090
<i>CKAP2L</i>	99,70%	98,60%	100%	100%	Filippi syndrome, 272440
<i>CLCF1</i>	100%	99,40%	100%	100%	Cold-induced sweating syndrome 2, 610313
<i>CLCN1</i>	100%	99,20%	100%	100%	Myotonia congenita, dominant, 160800 Myotonia congenita, recessive, 255700 Myotonia levior, recessive, 0
<i>CLCN2</i>	100%	99,50%	100%	100%	Leukoencephalopathy with ataxia, 615651 Hyperaldosteronism, familial, type II, 605635
<i>CLCN7</i>	99,70%	98,40%	100%	100%	Osteopetrosis, autosomal recessive 4, 611490 Osteopetrosis, autosomal dominant 2, 166600 Hypopigmentation, organomegaly, and delayed myelination and development, 618541
<i>CLCNKB</i>	99,10%	95,90%	100%	100%	Bartter syndrome, type 3, 607364 Bartter syndrome, type 4b, digenic, 613090
<i>CLDN1</i>	100%	100%	100%	100%	Ichthyosis, leukocyte vacuoles, alopecia, and sclerosing cholangitis, 607626
<i>CLDN10</i>	100%	100%	100%	100%	HELIX syndrome, 617671
<i>CLDN14</i>	100%	99,70%	100%	100%	Deafness, autosomal recessive 29, 614035
<i>CLDN16</i>	100%	100%	100%	100%	Hypomagnesemia 3, renal, 248250
<i>CLDN19</i>	98,50%	93,10%	100%	100%	Hypomagnesemia 5, renal, with ocular involvement, 248190
<i>CLIC5</i>	100%	99,90%	100%	100%	?Deafness, autosomal recessive 103, 616042
<i>CLIP1</i>	100%	99,00%	100%	100%	No OMIM disease ID
<i>CLMP</i>	100%	99,60%	100%	100%	Congenital short bowel syndrome, 615237
<i>CLN3</i>	92,50%	91,80%	92,50%	92,50%	Ceroid lipofuscinosis, neuronal, 3, 204200
<i>CLN5</i>	99,40%	95,50%	100%	100%	Ceroid lipofuscinosis, neuronal, 5, 256731
<i>CLN6</i>	99,90%	97,10%	100%	100%	Ceroid lipofuscinosis, neuronal, Kufs type, adult onset, 204300 Ceroid lipofuscinosis, neuronal, 6, 601780
<i>CLN8</i>	83,50%	83,50%	100%	100%	Ceroid lipofuscinosis, neuronal, 8, 600143 Ceroid lipofuscinosis, neuronal, 8, Northern epilepsy variant, 610003
<i>CLP1</i>	100%	100%	100%	100%	Pontocerebellar hypoplasia, type 10, 615803
<i>CLPB</i>	100%	99,90%	100%	100%	3-methylglutaconic aciduria, type VII, with cataracts, neurologic involvement and neutropenia, 616271
<i>CLPP</i>	100%	99,10%	100%	100%	Perrault syndrome 3, 614129
<i>CLRN1</i>	100%	99,80%	100%	100%	Retinitis pigmentosa 61, 614180 Usher syndrome, type 3A, 276902
<i>CNGA1</i>	91,70%	86,30%	91,00%	91,00%	Retinitis pigmentosa 49, 613756
<i>CNGA3</i>	100%	99,70%	100%	100%	Achromatopsia 2, 216900

<i>CNGB1</i>	99,40%	97,50%	100%	100%	Retinitis pigmentosa 45, 613767
<i>CNGB3</i>	99,40%	95,90%	100%	100%	Macular degeneration, juvenile, 248200 Achromatopsia 3, 262300
<i>CNNM2</i>	100%	100%	100%	100%	Hypomagnesemia 6, renal, 613882 Hypomagnesemia, seizures, and mental retardation, 616418
<i>CNNM4</i>	99,80%	98,90%	99,70%	98,80%	Jalili syndrome, 217080
<i>CNPY3</i>	100%	99,30%	100%	100%	Epileptic encephalopathy, early infantile, 60, 617929
<i>CNTN1</i>	99,90%	98,90%	100%	100%	?Myopathy, congenital, Compton-North, 612540
<i>CNTN2</i>	92,70%	92,70%	100%	100%	?Epilepsy, myoclonic, familial adult, 5, 615400
<i>CNTNAP1</i>	100%	99,80%	100%	100%	Lethal congenital contracture syndrome 7, 616286 Hypomyelinating neuropathy, congenital, 3, 618186
<i>CNTNAP2</i>	100%	99,80%	100%	100%	Pitt-Hopkins like syndrome 1, 610042 Cortical dysplasia-focal epilepsy syndrome, 610042
<i>COA5</i>	99,10%	88,90%	85,20%	85,20%	?Cardioencephalomyopathy, fatal infantile, due to cytochrome c oxidase deficiency 3, 616500
<i>COA6</i>	99,90%	98,40%	100%	100%	Cardioencephalomyopathy, fatal infantile, due to cytochrome c oxidase deficiency 4, 616501
<i>COA7</i>	100%	100%	100%	100%	Spinocerebellar ataxia, autosomal recessive, with axonal neuropathy 3, 618387
<i>COASY</i>	100%	100%	100%	100%	Pontocerebellar hypoplasia, type 12, 618266 Neurodegeneration with brain iron accumulation 6, 615643
<i>COCH</i>	100%	99,90%	100%	100%	?Deafness, autosomal recessive 110, 618094 Deafness, autosomal dominant 9, 601369
<i>COG1</i>	100%	100%	100%	100%	Congenital disorder of glycosylation, type IIg, 611209
<i>COG2</i>	99,90%	98,50%	100%	100%	?Congenital disorder of glycosylation, type IIq, 617395
<i>COG4</i>	100%	99,90%	100%	100%	Saul-Wilson syndrome, 618150 Congenital disorder of glycosylation, type IIj, 613489
<i>COG5</i>	99,70%	97,60%	100%	100%	Congenital disorder of glycosylation, type III, 613612
<i>COG6</i>	99,10%	93,90%	100%	100%	Shaheen syndrome, 615328 Congenital disorder of glycosylation, type III, 614576
<i>COG7</i>	100%	100%	100%	100%	Congenital disorder of glycosylation, type IIe, 608779
<i>COG8</i>	100%	99,60%	100%	100%	Congenital disorder of glycosylation, type IIh, 611182
<i>COL11A1</i>	99,20%	95,70%	100%	100%	Stickler syndrome, type II, 604841 Marshall syndrome, 154780 ?Deafness, autosomal dominant 37, 618533 Fibrochondrogenesis 1, 228520
<i>COL11A2</i>	100%	99,50%	100%	100%	Deafness, autosomal dominant 13, 601868 Otospondylomegaepiphyseal dysplasia, autosomal recessive, 215150 Fibrochondrogenesis 2, 614524 Deafness, autosomal recessive 53, 609706 Otospondylomegaepiphyseal dysplasia, autosomal dominant, 184840

<i>COL12A1</i>	100%	99,40%	100%	100%	Bethlem myopathy 2, 616471 ?Ullrich congenital muscular dystrophy 2, 616470
<i>COL13A1</i>	100%	99,80%	100%	100%	Myasthenic syndrome, congenital, 19, 616720
<i>COL17A1</i>	98,70%	96,80%	100%	100%	Epithelial recurrent erosion dystrophy, 122400 Epidermolysis bullosa, junctional, non-Herlitz type, 226650 Epidermolysis bullosa, junctional, localisata variant, 226650
<i>COL18A1</i>	98,10%	95,60%	100%	100%	Knobloch syndrome, type 1, 267750
<i>COL1A2</i>	99,40%	97,00%	100%	100%	Ehlers-Danlos syndrome, cardiac valvular type, 225320 Ehlers-Danlos syndrome, arthrochalasia type, 2, 617821 Osteogenesis imperfecta, type II, 166210 Osteogenesis imperfecta, type IV, 166220 Osteogenesis imperfecta, type III, 259420
<i>COL25A1</i>	99,50%	99,10%	99,90%	99,90%	Fibrosis of extraocular muscles, congenital, 5, 616219
<i>COL27A1</i>	99,90%	99,70%	100%	100%	Steel syndrome, 615155
<i>COL3A1</i>	99,60%	97,60%	100%	100%	Ehlers-Danlos syndrome, vascular type, 130050 Polymicrogyria with or without vascular-type EDS, 618343
<i>COL4A3</i>	98,70%	98,00%	100%	100%	Hematuria, benign familial, 141200 Alport syndrome 2, autosomal recessive, 203780 Alport syndrome 3, autosomal dominant, 104200
<i>COL4A4</i>	99,90%	98,20%	100%	100%	Alport syndrome 2, autosomal recessive, 203780 Hematuria, familial benign, 141200
<i>COL6A1</i>	100%	99,40%	100%	100%	Ullrich congenital muscular dystrophy 1, 254090 Bethlem myopathy 1, 158810
<i>COL6A2</i>	100%	99,80%	100%	100%	Bethlem myopathy 1, 158810 ?Myosclerosis, congenital, 255600 Ullrich congenital muscular dystrophy 1, 254090
<i>COL6A3</i>	100%	99,80%	100%	100%	Bethlem myopathy 1, 158810 Dystonia 27, 616411 Ullrich congenital muscular dystrophy 1, 254090
<i>COL7A1</i>	99,90%	99,10%	100%	100%	EBD inversa, 226600 Epidermolysis bullosa dystrophica, AR, 226600 Toenail dystrophy, isolated, 607523 EBD, Bart type, 132000 Transient bullous of the newborn, 131705 Epidermolysis bullosa dystrophica, AD, 131750 Epidermolysis bullosa pruriginosa, 604129 Epidermolysis bullosa, pretibial, 131850 EBD, localisata variant, 0

<i>COL9A1</i>	100%	99,20%	100%	100%	?Epiphyseal dysplasia, multiple, 6, 614135 Stickler syndrome, type IV, 614134
<i>COL9A2</i>	99,90%	99,00%	100%	100%	?Stickler syndrome, type V, 614284 Epiphyseal dysplasia, multiple, 2, 600204
<i>COLEC10</i>	100%	100%	100%	100%	3MC syndrome 3, 248340
<i>COLEC11</i>	100%	100%	100%	100%	3MC syndrome 2, 265050
<i>COLGALT1</i>	93,30%	89,00%	98,60%	97,00%	Brain small vessel disease 3, 618360
<i>COLQ</i>	100%	99,20%	100%	100%	Myasthenic syndrome, congenital, 5, 603034
<i>COPB2</i>	99,90%	99,30%	100%	100%	?Microcephaly 19, primary, autosomal recessive, 617800
<i>COQ2</i>	98,00%	95,30%	97,20%	97,20%	Coenzyme Q10 deficiency, primary, 1, 607426
<i>COQ4</i>	90,90%	89,30%	100%	100%	Coenzyme Q10 deficiency, primary, 7, 616276
<i>COQ6</i>	99,90%	98,40%	100%	100%	Coenzyme Q10 deficiency, primary, 6, 614650
<i>COQ7</i>	100%	99,80%	100%	100%	?Coenzyme Q10 deficiency, primary, 8, 616733
<i>COQ8A</i>	100%	99,50%	100%	100%	Coenzyme Q10 deficiency, primary, 4, 612016
<i>COQ8B</i>	100%	99,30%	100%	100%	Nephrotic syndrome, type 9, 615573
<i>COQ9</i>	100%	97,90%	100%	100%	Coenzyme Q10 deficiency, primary, 5, 614654
<i>CORO1A</i>	100%	98,60%	100%	100%	Immunodeficiency 8, 615401
<i>COX10</i>	100%	100%	100%	100%	Mitochondrial complex IV deficiency, 220110 Leigh syndrome due to mitochondrial COX4 deficiency, 256000
<i>COX14</i>	100%	100%	100%	100%	?Mitochondrial complex IV deficiency, 220110
<i>COX15</i>	99,90%	98,80%	100%	100%	Cardioencephalomyopathy, fatal infantile, due to cytochrome c oxidase deficiency 2, 615119 Leigh syndrome due to cytochrome c oxidase deficiency, 256000
<i>COX20</i>	97,80%	88,30%	100%	100%	Mitochondrial complex IV deficiency, 220110
<i>COX4I2</i>	100%	100%	100%	100%	Exocrine pancreatic insufficiency, dyserythropoietic anemia, and calvarial hyperostosis, 612714
<i>COX6A1</i>	100%	99,50%	100%	100%	Charcot-Marie-Tooth disease, recessive intermediate D, 616039
<i>COX6A2</i>	99,20%	93,70%	100%	100%	Mitochondrial complex IV deficiency, 220110
<i>COX6B1</i>	100%	100%	100%	100%	Mitochondrial complex IV deficiency, 220110
<i>COX8A</i>	100%	100%	100%	100%	?Mitochondrial complex IV deficiency, 220110
<i>CP</i>	94,80%	88,90%	100%	100%	Hemosiderosis, systemic, due to aceruloplasminemia, 604290 Cerebellar ataxia, 604290
<i>CPA6</i>	99,60%	97,50%	100%	100%	Febrile seizures, familial, 11, 614418 Epilepsy, familial temporal lobe, 5, 614417
<i>CPAMD8</i>	95,80%	92,80%	99,90%	99,60%	Anterior segment dysgenesis 8, 617319
<i>CPLX1</i>	100%	100%	100%	100%	Epileptic encephalopathy, early infantile, 63, 617976
<i>CPN1</i>	99,90%	99,40%	100%	100%	Carboxypeptidase N deficiency, 212070
<i>CPOX</i>	99,90%	95,40%	100%	100%	Harderoporphyrinia, 121300 Coproporphyrinia, 121300

<i>CPS1</i>	100%	99,90%	100%	100%	Carbamoylphosphate synthetase I deficiency, 237300
<i>CPT1A</i>	100%	98,90%	100%	100%	CPT deficiency, hepatic, type IA, 255120
<i>CPT2</i>	98,20%	97,80%	100%	100%	CPT II deficiency, myopathic, stress-induced, 255110 CPT II deficiency, infantile, 600649 CPT II deficiency, lethal neonatal, 608836
<i>CR2</i>	100%	99,80%	100%	100%	Immunodeficiency, common variable, 7, 614699
<i>CRADD</i>	99,50%	96,30%	100%	100%	Mental retardation, autosomal recessive 34, with variant lissencephaly, 614499
<i>CRAT</i>	100%	99,80%	100%	100%	?Neurodegeneration with brain iron accumulation 8, 617917
<i>CRB1</i>	100%	99,90%	100%	100%	Pigmented paravenous chorioretinal atrophy, 172870 Retinitis pigmentosa-12, 600105 Leber congenital amaurosis 8, 613835
<i>CRB2</i>	98,50%	93,00%	100%	100%	Focal segmental glomerulosclerosis 9, 616220 Ventriculomegaly with cystic kidney disease, 219730
<i>CRBN</i>	88,20%	87,70%	97,00%	92,90%	Mental retardation, autosomal recessive 2, 607417
<i>CREB3L1</i>	100%	99,90%	100%	100%	Osteogenesis imperfecta, type XVI, 616229
<i>CRIP</i>	98,10%	93,20%	100%	100%	Short stature with microcephaly and distinctive facies, 615789
<i>CRLF1</i>	91,00%	89,80%	97,90%	95,20%	Cold-induced sweating syndrome 1, 272430
<i>CRTAP</i>	99,80%	98,80%	100%	100%	Osteogenesis imperfecta, type VII, 610682
<i>CRYAA</i>	99,90%	97,50%	100%	100%	Cataract 9, multiple types, 604219
<i>CRYAB</i>	100%	99,20%	100%	100%	Myopathy, myofibrillar, 2, 608810 Cardiomyopathy, dilated, 1II, 615184 Cataract 16, multiple types, 613763 Myopathy, myofibrillar, fatal infantile hypertonic, alpha-B crystallin-related, 613869
<i>CRYBB1</i>	100%	100%	100%	100%	Cataract 17, multiple types, 611544
<i>CRYBB3</i>	100%	100%	100%	100%	Cataract 22, 609741
<i>CSF1R</i>	99,90%	99,30%	100%	100%	Brain abnormalities, neurodegeneration, and dysosteosclerosis, 618476 Leukoencephalopathy, diffuse hereditary, with spheroids, 221820
<i>CSF2RB</i>	100%	99,00%	100%	100%	Surfactant metabolism dysfunction, pulmonary, 5, 614370
<i>CSPP1</i>	99,80%	98,70%	100%	100%	Joubert syndrome 21, 615636
<i>CSTA</i>	100%	99,80%	100%	100%	Peeling skin syndrome 4, 607936
<i>CSTB</i>	99,60%	89,80%	100%	100%	Epilepsy, progressive myoclonic 1A (Unverricht and Lundborg), 254800
<i>CTC1</i>	100%	99,60%	100%	100%	Cerebroretinal microangiopathy with calcifications and cysts, 612199
<i>CTDP1</i>	88,40%	84,30%	100%	99,40%	Congenital cataracts, facial dysmorphism, and neuropathy, 604168
<i>CTNNA2</i>	100%	99,80%	100%	100%	Cortical dysplasia, complex, with other brain malformations 9, 618174
<i>CTNS</i>	100%	99,80%	100%	100%	Cystinosis, nephropathic, 219800 Cystinosis, ocular nonnephropathic, 219750 Cystinosis, late-onset juvenile or adolescent nephropathic, 219900 Cystinosis, atypical nephropathic, 219800

<i>CTPS1</i>	100%	100%	100%	100%	Immunodeficiency 24, 615897
<i>CTSA</i>	100%	100%	100%	100%	Galactosialidosis, 256540
<i>CTSC</i>	100%	100%	100%	100%	Periodontitis 1, juvenile, 170650 Papillon-Lefevre syndrome, 245000 Haim-Munk syndrome, 245010
<i>CTSD</i>	98,40%	95,00%	100%	100%	Ceroid lipofuscinosis, neuronal, 10, 610127
<i>CTSF</i>	84,00%	79,30%	100%	99,90%	Ceroid lipofuscinosis, neuronal, 13, Kufs type, 615362
<i>CTSK</i>	100%	99,90%	100%	100%	Pycnodysostosis, 265800
<i>CTU2</i>	99,70%	97,70%	100%	100%	Microcephaly, facial dysmorphism, renal agenesis, and ambiguous genitalia syndrome, 618142
<i>CUBN</i>	99,70%	98,30%	100%	100%	Megaloblastic anemia-1, Finnish type, 261100
<i>CUL7</i>	100%	99,30%	100%	100%	3-M syndrome 1, 273750
<i>CWC27</i>	99,30%	96,50%	100%	100%	Retinitis pigmentosa with or without skeletal anomalies, 250410
<i>CWF19L1</i>	100%	99,80%	100%	100%	Spinocerebellar ataxia, autosomal recessive 17, 616127
<i>CYB5A</i>	100%	100%	100%	100%	Methemoglobinemia and ambiguous genitalia, 250790
<i>CYB5R3</i>	98,40%	98,00%	99,80%	98,90%	Methemoglobinemia, type I, 250800 Methemoglobinemia, type II, 250800
<i>CYBA</i>	95,00%	82,40%	100%	100%	Chronic granulomatous disease, autosomal, due to deficiency of CYBA, 233690
<i>CYC1</i>	97,50%	89,20%	99,90%	98,70%	Mitochondrial complex III deficiency, nuclear type 6, 615453
<i>CYP11A1</i>	99,30%	96,10%	100%	100%	Adrenal insufficiency, congenital, with 46XY sex reversal, partial or complete, 613743
<i>CYP11B1</i>	100%	100%	100%	100%	Adrenal hyperplasia, congenital, due to 11-beta-hydroxylase deficiency, 202010 Aldosteronism, glucocorticoid-remediable, 103900
<i>CYP11B2</i>	100%	100%	100%	100%	Hypoaldosteronism, congenital, due to CMO II deficiency, 610600 Hypoaldosteronism, congenital, due to CMO I deficiency, 203400 Aldosterone to renin ratio raised, 0
<i>CYP17A1</i>	100%	99,50%	100%	100%	17-alpha-hydroxylase/17,20-lyase deficiency, 202110 17,20-lyase deficiency, isolated, 202110
<i>CYP19A1</i>	98,80%	96,80%	100%	100%	Aromatase deficiency, 613546 Aromatase excess syndrome, 139300
<i>CYP1B1</i>	100%	100%	100%	100%	Glaucoma 3A, primary open angle, congenital, juvenile, or adult onset, 231300 Anterior segment dysgenesis 6, multiple subtypes, 617315
<i>CYP24A1</i>	100%	99,90%	100%	100%	Hypercalcemia, infantile, 1, 143880
<i>CYP26B1</i>	100%	99,90%	100%	100%	Craniosynostosis with radiohumeral fusions and other skeletal and craniofacial anomalies, 614416
<i>CYP26C1</i>	99,70%	97,10%	100%	99,80%	Focal facial dermal dysplasia 4, 614974
<i>CYP27A1</i>	98,90%	96,70%	100%	100%	Cerebrotendinous xanthomatosis, 213700
<i>CYP27B1</i>	99,90%	99,30%	100%	100%	Vitamin D-dependent rickets, type I, 264700
<i>CYP2C8</i>	99,90%	98,60%	100%	100%	No OMIM disease ID
<i>CYP2R1</i>	99,40%	95,60%	100%	100%	Rickets due to defect in vitamin D 25-hydroxylation, 600081

<i>CYP2U1</i>	94,80%	91,50%	100%	99,90%	Spastic paraplegia 56, autosomal recessive, 615030
<i>CYP4F22</i>	100%	99,40%	100%	100%	Ichthyosis, congenital, autosomal recessive 5, 604777
<i>CYP4V2</i>	99,90%	98,40%	100%	100%	Bietti crystalline corneoretinal dystrophy, 210370
<i>CYP7B1</i>	98,00%	92,80%	100%	100%	Spastic paraplegia 5A, autosomal recessive, 270800 Bile acid synthesis defect, congenital, 3, 613812
<i>D2HGDH</i>	99,20%	97,20%	100%	100%	D-2-hydroxyglutaric aciduria, 600721
<i>DAG1</i>	100%	100%	100%	100%	Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 9, 613818 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 9, 616538
<i>DARS</i>	100%	99,30%	100%	100%	Hypomyelination with brainstem and spinal cord involvement and leg spasticity, 615281
<i>DARS2</i>	100%	99,30%	100%	100%	Leukoencephalopathy with brain stem and spinal cord involvement and lactate elevation, 611105
<i>DBH</i>	100%	100%	100%	100%	Orthostatic hypotension 1, due to DBH deficiency, 223360
<i>DBT</i>	99,80%	98,00%	100%	100%	Maple syrup urine disease, type II, 248600
<i>DCAF17</i>	98,90%	93,30%	100%	100%	Woodhouse-Sakati syndrome, 241080
<i>DCC</i>	100%	100%	100%	100%	Esophageal carcinoma, somatic, 133239 Gaze palsy, familial horizontal, with progressive scoliosis, 2, 617542 Mirror movements 1 and/or agenesis of the corpus callosum, 157600 Colorectal cancer, somatic, 114500
<i>DCDC2</i>	100%	99,90%	100%	100%	Sclerosing cholangitis, neonatal, 617394 Nephronophthisis 19, 616217 ?Deafness, autosomal recessive 66, 610212
<i>DCHS1</i>	99,80%	99,10%	100%	100%	Mitral valve prolapse 2, 607829 Van Maldergem syndrome 1, 601390
<i>DCLRE1C</i>	100%	99,40%	100%	100%	Omenn syndrome, 603554 Severe combined immunodeficiency, Athabascan type, 602450
<i>DCPS</i>	100%	100%	100%	100%	Al-Raqad syndrome, 616459
<i>DDB2</i>	99,60%	97,50%	100%	100%	Xeroderma pigmentosum, group E, DDB-negative subtype, 278740
<i>DDC</i>	99,70%	96,40%	100%	100%	Aromatic L-amino acid decarboxylase deficiency, 608643
<i>DDHD1</i>	97,90%	95,80%	100%	100%	Spastic paraplegia 28, autosomal recessive, 609340
<i>DDHD2</i>	100%	99,60%	100%	100%	Spastic paraplegia 54, autosomal recessive, 615033
<i>DDOST</i>	100%	99,90%	100%	100%	?Congenital disorder of glycosylation, type I <sub>r</sub> , 614507
<i>DDR2</i>	100%	99,90%	100%	100%	Warburg-Cinotti syndrome, 618175 Spondylometaphyseal dysplasia, short limb-hand type, 271665
<i>DDRGK1</i>	100%	99,90%	100%	100%	Spondyloepimetaphyseal dysplasia, Shohat type, 602557
<i>DDX11</i>	85,20%	80,70%	100%	100%	Warsaw breakage syndrome, 613398
<i>DDX59</i>	100%	100%	100%	100%	Orofaciodigital syndrome V, 174300
<i>DEAF1</i>	97,30%	88,80%	100%	98,70%	Mental retardation, autosomal dominant 24, 615828 ?Dyskinesia, seizures, and intellectual developmental disorder, 617171

<i>DEGS1</i>	100%	100%	100%	100%	Leukodystrophy, hypomyelinating, 18, 618404
<i>DENND5A</i>	100%	99,40%	100%	100%	Epileptic encephalopathy, early infantile, 49, 617281
<i>DES</i>	100%	99,70%	100%	100%	?Cardiomyopathy, dilated, 1I, 604765 Scapuloperoneal syndrome, neurogenic, Kaeser type, 181400 Myopathy, myofibrillar, 1, 601419
<i>DFNB59</i>	100%	99,70%	100%	100%	Deafness, autosomal recessive 59, 610220
<i>DGAT1</i>	91,90%	87,60%	99,70%	98,60%	?Diarrhea 7, protein-losing enteropathy type, 615863
<i>DGKE</i>	99,80%	98,10%	100%	100%	Nephrotic syndrome, type 7, 615008
<i>DGUOK</i>	100%	99,40%	100%	100%	Progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal recessive 4, 617070 Portal hypertension, noncirrhotic, 617068 Mitochondrial DNA depletion syndrome 3 (hepatocerebral type), 251880
<i>DHCR24</i>	100%	100%	100%	100%	Desmosterolosis, 602398
<i>DHCR7</i>	100%	100%	100%	100%	Smith-Lemli-Opitz syndrome, 270400
<i>DHDDS</i>	99,00%	95,00%	95,20%	95,20%	Retinitis pigmentosa 59, 613861 ?Congenital disorder of glycosylation, type 1bb, 613861 Developmental delay and seizures with or without movement abnormalities, 617836
<i>DHFR</i>	92,10%	78,90%	100%	100%	Megaloblastic anemia due to dihydrofolate reductase deficiency, 613839
<i>DHH</i>	100%	100%	100%	100%	46XY sex reversal 7, 233420 46XY partial gonadal dysgenesis, with minifascicular neuropathy, 607080
<i>DHODH</i>	100%	100%	100%	100%	Miller syndrome, 263750
<i>DHPS</i>	100%	99,70%	93,30%	93,20%	Neurodevelopmental disorder with seizures and speech and walking impairment, 618480
<i>DHTKD1</i>	99,90%	98,90%	100%	100%	2-amino adipic 2-oxoadipic aciduria, 204750 ?Charcot-Marie-Tooth disease, axonal, type 2Q, 615025
<i>DHX38</i>	100%	99,30%	100%	100%	Retinitis pigmentosa 84, 618220
<i>DIAPH1</i>	99,80%	99,00%	99,50%	97,90%	Seizures, cortical blindness, microcephaly syndrome, 616632 Deafness, autosomal dominant 1, 124900
<i>DIS3L2</i>	100%	99,80%	100%	100%	Perlman syndrome, 267000
<i>DLAT</i>	100%	99,70%	100%	100%	Pyruvate dehydrogenase E2 deficiency, 245348
<i>DLD</i>	100%	99,70%	100%	100%	Dihydrolipoamide dehydrogenase deficiency, 246900
<i>DLL3</i>	92,10%	87,00%	100%	99,10%	Spondylocostal dysostosis 1, autosomal recessive, 277300
<i>DLX5</i>	100%	99,90%	100%	100%	?Split-hand/foot malformation 1 with sensorineural hearing loss, 220600
<i>DMGDH</i>	100%	99,70%	100%	100%	Dimethylglycine dehydrogenase deficiency, 605850
<i>DMP1</i>	100%	99,90%	100%	100%	Hypophosphatemic rickets, AR, 241520
<i>DMXL2</i>	99,90%	99,10%	100%	100%	?Deafness, autosomal dominant 71, 617605 ?Polyendocrine-polyneuropathy syndrome, 616113 Epileptic encephalopathy, early infantile, 81, 618663
<i>DNA2</i>	99,80%	98,30%	100%	100%	?Seckel syndrome 8, 615807 Progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal dominant 6, 615156

DNAAF1	100%	99,80%	100%	100%	Ciliary dyskinesia, primary, 13, 613193
DNAAF2	99,90%	98,90%	100%	100%	Ciliary dyskinesia, primary, 10, 612518
DNAAF3	99,50%	96,10%	100%	100%	Ciliary dyskinesia, primary, 2, 606763
DNAAF4	99,80%	97,00%	100%	100%	Ciliary dyskinesia, primary, 25, 615482
DNAAF5	84,60%	78,60%	99,10%	97,50%	Ciliary dyskinesia, primary, 18, 614874
DNAH1	100%	99,70%	100%	100%	?Ciliary dyskinesia, primary, 37, 617577 Spermatogenic failure 18, 617576
DNAH11	99,90%	99,00%	100%	100%	Ciliary dyskinesia, primary, 7, with or without situs inversus, 611884
DNAH5	99,90%	99,30%	100%	100%	Ciliary dyskinesia, primary, 3, with or without situs inversus, 608644
DNAH9	99,50%	98,30%	100%	100%	Ciliary dyskinesia, primary, 40, 618300
DNAI1	100%	100%	100%	100%	Ciliary dyskinesia, primary, 1, with or without situs inversus, 244400
DNAI2	98,60%	96,20%	100%	100%	Ciliary dyskinesia, primary, 9, with or without situs inversus, 612444
DNAJB2	100%	100%	100%	100%	Spinal muscular atrophy, distal, autosomal recessive, 5, 614881
DNAJC12	87,40%	87,40%	100%	100%	Hyperphenylalaninemia, mild, non-BH4-deficient, 617384
DNAJC19	98,90%	96,20%	100%	100%	3-methylglutaconic aciduria, type V, 610198
DNAJC21	99,90%	99,00%	100%	100%	Bone marrow failure syndrome 3, 617052
DNAJC3	100%	99,70%	100%	100%	?Ataxia, combined cerebellar and peripheral, with hearing loss and diabetes mellitus, 616192
DNAJC6	100%	99,40%	100%	100%	Parkinson disease 19b, early-onset, 615528 Parkinson disease 19a, juvenile-onset, 615528
DNAL1	99,00%	96,80%	100%	100%	Ciliary dyskinesia, primary, 16, 614017
DNASE1L3	100%	100%	100%	100%	Systemic lupus erythematosus 16, 614420
DNM1L	99,90%	98,50%	100%	100%	Encephalopathy, lethal, due to defective mitochondrial peroxisomal fission 1, 614388 Optic atrophy 5, 610708
DNM2	98,10%	94,50%	100%	100%	Lethal congenital contracture syndrome 5, 615368 Charcot-Marie-Tooth disease, axonal type 2M, 606482 Centronuclear myopathy 1, 160150 Charcot-Marie-Tooth disease, dominant intermediate B, 606482
DNMBP	100%	99,70%	100%	100%	Cataract 48, 618415
DNMT3B	100%	100%	100%	100%	Immunodeficiency-centromeric instability-facial anomalies syndrome 1, 242860
DOCK2	100%	99,60%	100%	100%	Immunodeficiency 40, 616433
DOCK3	100%	99,00%	100%	100%	Neurodevelopmental disorder with impaired intellectual development, hypotonia, and ataxia, 618292
DOCK6	99,30%	98,90%	100%	100%	Adams-Oliver syndrome 2, 614219
DOCK7	99,80%	98,20%	100%	99,90%	Epileptic encephalopathy, early infantile, 23, 615859
DOCK8	100%	99,60%	100%	100%	Hyper-IgE recurrent infection syndrome, autosomal recessive, 243700
DOK7	94,10%	91,30%	100%	100%	Myasthenic syndrome, congenital, 10, 254300 Fetal akinesia deformation sequence 3, 618389
DOLK	100%	100%	100%	100%	Congenital disorder of glycosylation, type Im, 610768

<i>DONSON</i>	91,70%	85,30%	100%	100%	Microcephaly-micromelia syndrome, 251230 Microcephaly, short stature, and limb abnormalities, 617604
<i>DPAGT1</i>	100%	100%	100%	100%	Congenital disorder of glycosylation, type Ij, 608093 Myasthenic syndrome, congenital, 13, with tubular aggregates, 614750
<i>DPH1</i>	100%	99,90%	100%	100%	Developmental delay with short stature, dysmorphic facial features, and sparse hair, 616901
<i>DPM1</i>	98,20%	91,30%	99,70%	97,10%	Congenital disorder of glycosylation, type Ie, 608799
<i>DPM2</i>	100%	98,70%	100%	100%	Congenital disorder of glycosylation, type Iu, 615042
<i>DPM3</i>	100%	100%	100%	100%	Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 15, 612937
<i>DPY19L2</i>	74,50%	71,20%	100%	100%	Spermatogenic failure 9, 613958
<i>DPYD</i>	99,70%	97,70%	100%	100%	Dihydropyrimidine dehydrogenase deficiency, 274270 5-fluorouracil toxicity, 274270
<i>DPYS</i>	100%	99,90%	100%	100%	Dihydropyrimidinuria, 222748
<i>DRAM2</i>	100%	99,90%	100%	100%	Cone-rod dystrophy 21, 616502
<i>DRC1</i>	100%	99,50%	100%	100%	Ciliary dyskinesia, primary, 21, 615294
<i>DSC2</i>	99,80%	98,40%	100%	100%	Arrhythmogenic right ventricular dysplasia 11 with mild palmoplantar keratoderma and woolly hair, 610476 Arrhythmogenic right ventricular dysplasia 11, 610476
<i>DSC3</i>	99,50%	96,80%	100%	100%	?Hypotrichosis and recurrent skin vesicles, 613102
<i>DSE</i>	99,00%	96,10%	100%	100%	Ehlers-Danlos syndrome, musculocontractural type 2, 615539
<i>DSG4</i>	100%	99,20%	100%	100%	Hypotrichosis 6, 607903
<i>DSP</i>	100%	99,60%	100%	100%	Keratosis palmoplantaris striata II, 612908 Skin fragility-woolly hair syndrome, 607655 Arrhythmogenic right ventricular dysplasia 8, 607450 Epidermolysis bullosa, lethal acantholytic, 609638 Cardiomyopathy, dilated, with woolly hair and keratoderma, 605676 Dilated cardiomyopathy with woolly hair, keratoderma, and tooth agenesis, 615821
<i>DST</i>	99,90%	99,40%	100%	100%	?Neuropathy, hereditary sensory and autonomic, type VI, 614653 Epidermolysis bullosa simplex, autosomal recessive 2, 615425
<i>DSTYK</i>	99,90%	99,20%	100%	100%	Congenital anomalies of kidney and urinary tract 1, 610805 Spastic paraplegia 23, 270750
<i>DTNBP1</i>	99,80%	98,70%	100%	100%	Hermansky-Pudlak syndrome 7, 614076
<i>DUOX2</i>	96,70%	94,70%	100%	100%	Thyroid dyshormonogenesis 6, 607200
<i>DUOXA2</i>	100%	100%	100%	100%	Thyroid dyshormonogenesis 5, 274900
<i>DYM</i>	97,40%	96,50%	100%	100%	Smith-McCort dysplasia, 607326 Dyggve-Melchior-Claussen disease, 223800
<i>DYNC1I2</i>	84,40%	68,80%	100%	100%	Neurodevelopmental disorder with microcephaly and structural brain anomalies, 618492
<i>DYNC2H1</i>	98,80%	95,50%	100%	100%	Short-rib thoracic dysplasia 3 with or without polydactyly, 613091
<i>DYNC2LI1</i>	99,70%	97,60%	100%	100%	Short-rib thoracic dysplasia 15 with polydactyly, 617088

<i>DYSF</i>	100%	99,90%	100%	100%	Miyoshi muscular dystrophy 1, 254130 Muscular dystrophy, limb-girdle, autosomal recessive 2, 253601 Myopathy, distal, with anterior tibial onset, 606768
<i>DZIP1L</i>	99,90%	99,00%	100%	100%	Polycystic kidney disease 5, 617610
<i>EARS2</i>	99,80%	97,70%	100%	100%	Combined oxidative phosphorylation deficiency 12, 614924
<i>ECEL1</i>	95,40%	90,00%	100%	100%	Arthrogryposis, distal, type 5D, 615065
<i>ECHS1</i>	99,90%	99,00%	100%	100%	Mitochondrial short-chain enoyl-CoA hydratase 1 deficiency, 616277
<i>ECM1</i>	100%	99,60%	100%	100%	Urbach-Wiethe disease, 247100
<i>EDAR</i>	100%	99,90%	100%	100%	Ectodermal dysplasia 10A, hypohidrotic/hair/nail type, autosomal dominant, 129490 Ectodermal dysplasia 10B, hypohidrotic/hair/tooth type, autosomal recessive, 224900
<i>EDARADD</i>	99,90%	98,80%	100%	100%	Ectodermal dysplasia 11B, hypohidrotic/hair/tooth type, autosomal recessive, 614941 Ectodermal dysplasia 11A, hypohidrotic/hair/tooth type, autosomal dominant, 614940
<i>EDC3</i>	100%	99,90%	100%	100%	?Mental retardation, autosomal recessive 50, 616460
<i>EDN1</i>	100%	100%	100%	100%	Auriculocondylar syndrome 3, 615706 Question mark ears, isolated, 612798
<i>EDN3</i>	100%	99,90%	100%	100%	Waardenburg syndrome, type 4B, 613265 Central hypoventilation syndrome, congenital, 209880
<i>EDNRB</i>	98,00%	93,80%	100%	100%	Waardenburg syndrome, type 4A, 277580 ABCD syndrome, 600501
<i>EFEMP2</i>	100%	100%	100%	100%	Cutis laxa, autosomal recessive, type IB, 614437
<i>EFL1</i>	99,60%	98,50%	100%	100%	Shwachman-Diamond syndrome 2, 617941
<i>EGF</i>	99,90%	99,70%	100%	100%	Hypomagnesemia 4, renal, 611718
<i>EGFR</i>	100%	100%	100%	99,80%	?Inflammatory skin and bowel disease, neonatal, 2, 616069 Adenocarcinoma of lung, response to tyrosine kinase inhibitor in, 211980 Non small cell lung cancer, response to tyrosine kinase inhibitor in, 211980
<i>EGR2</i>	100%	100%	100%	100%	Dejerine-Sottas disease, 145900 Hypomyelinating neuropathy, congenital, 1, 605253 Charcot-Marie-Tooth disease, type 1D, 607678
<i>EIF2AK3</i>	97,20%	94,50%	100%	100%	Wolcott-Rallison syndrome, 226980
<i>EIF2AK4</i>	99,80%	98,60%	100%	100%	Pulmonary venoocclusive disease 2, 234810
<i>EIF2B1</i>	100%	100%	100%	100%	Leukoencephalopathy with vanishing white matter, 603896
<i>EIF2B2</i>	99,90%	99,50%	100%	100%	Ovarioleukodystrophy, 603896 Leukoencephalopathy with vanishing white matter, 603896
<i>EIF2B3</i>	100%	100%	100%	100%	Leukoencephalopathy with vanishing white matter, 603896
<i>EIF2B4</i>	100%	99,90%	100%	100%	Leukoencephalopathy with vanishing white matter, 603896 Ovarioleukodystrophy, 603896
<i>EIF2B5</i>	100%	99,00%	100%	100%	Leukoencephalopathy with vanishing white matter, 603896 Ovarioleukodystrophy, 603896

<i>EIF3F</i>	96,80%	84,10%	100%	100%	Mental retardation, autosomal recessive 67, 618295
<i>EIF4A3</i>	100%	99,50%	100%	100%	Robin sequence with cleft mandible and limb anomalies, 268305
<i>ELAC2</i>	100%	99,70%	100%	100%	Combined oxidative phosphorylation deficiency 17, 615440
<i>ELMO2</i>	99,90%	99,00%	100%	100%	Vascular malformation, primary intraosseous, 606893
<i>ELMOD3</i>	100%	99,80%	100%	100%	?Deafness, autosomal recessive 88, 615429
<i>ELOVL4</i>	100%	99,50%	100%	100%	Spinocerebellar ataxia 34, 133190 Stargardt disease 3, 600110 Ichthyosis, spastic quadriplegia, and mental retardation, 614457
<i>ELP1</i>	99,80%	99,00%	100%	100%	Dysautonomia, familial, 223900
<i>ELP2</i>	99,90%	98,80%	100%	100%	Mental retardation, autosomal recessive 58, 617270
<i>EMC1</i>	100%	99,30%	100%	100%	Cerebellar atrophy, visual impairment, and psychomotor retardation, 616875
<i>EMG1</i>	100%	100%	100%	100%	Bowen-Conradi syndrome, 211180
<i>EML1</i>	99,70%	98,40%	100%	100%	Band heterotopia, 600348
<i>EMP2</i>	99,90%	96,70%	100%	100%	Nephrotic syndrome, type 10, 615861
<i>ENAM</i>	100%	100%	100%	100%	Amelogenesis imperfecta, type IC, 204650 Amelogenesis imperfecta, type IB, 104500
<i>ENO3</i>	100%	99,90%	100%	100%	?Glycogen storage disease XIII, 612932
<i>ENPP1</i>	96,40%	91,20%	98,70%	97,80%	Hypophosphatemic rickets, autosomal recessive, 2, 613312 Cole disease, 615522 Arterial calcification, generalized, of infancy, 1, 208000
<i>ENTPD1</i>	100%	100%	100%	100%	Spastic paraparesis 64, autosomal recessive, 615683
<i>EOGT</i>	79,40%	78,40%	91,90%	89,00%	Adams-Oliver syndrome 4, 615297
<i>EPB41</i>	99,40%	97,80%	100%	100%	Elliptocytosis-1, 611804
<i>EPB42</i>	100%	99,50%	100%	100%	Spherocytosis, type 5, 612690
<i>EPCAM</i>	98,60%	90,30%	99,80%	98,30%	Colorectal cancer, hereditary nonpolyposis, type 8, 613244 Diarrhea 5, with tufting enteropathy, congenital, 613217
<i>EPG5</i>	99,50%	98,50%	100%	100%	Vici syndrome, 242840
<i>EPHX1</i>	99,90%	98,80%	100%	100%	?Hypercholanemia, familial, 607748
<i>EPM2A</i>	94,20%	91,50%	100%	97,70%	Epilepsy, progressive myoclonic 2A (Lafora), 254780
<i>EPO</i>	99,90%	97,60%	100%	100%	Erythrocytosis, familial, 5, 617907 ?Diamond-Blackfan anemia-like, 617911
<i>EPRS</i>	100%	99,60%	100%	100%	Leukodystrophy, hypomyelinating, 15, 617951
<i>EPS8</i>	100%	99,10%	100%	100%	?Deafness, autosomal recessive 102, 615974
<i>EPS8L2</i>	96,10%	93,70%	100%	100%	Deafness autosomal recessive 106, 617637
<i>ERAL1</i>	100%	99,70%	100%	100%	Perrault syndrome 6, 617565
<i>ERBB3</i>	100%	99,80%	100%	100%	?Lethal congenital contractual syndrome 2, 607598
<i>ERCC1</i>	100%	99,30%	100%	100%	Cerebrooculofacioskeletal syndrome 4, 610758

<i>ERCC2</i>	100%	99,70%	100%	100%	Trichothiodystrophy 1, photosensitive, 601675 ?Cerebrooculofacioskeletal syndrome 2, 610756 Xeroderma pigmentosum, group D, 278730
<i>ERCC3</i>	100%	99,40%	100%	100%	Xeroderma pigmentosum, group B, 610651 Trichothiodystrophy 2, photosensitive, 616390
<i>ERCC4</i>	100%	99,90%	100%	100%	Xeroderma pigmentosum, type F/Cockayne syndrome, 278760 Fanconi anemia, complementation group Q, 615272 XFE progeroid syndrome, 610965 Xeroderma pigmentosum, group F, 278760
<i>ERCC5</i>	100%	99,60%	100%	100%	Xeroderma pigmentosum, group G/Cockayne syndrome, 278780 Xeroderma pigmentosum, group G, 278780 Cerebrooculofacioskeletal syndrome 3, 616570
<i>ERCC6</i>	100%	100%	100%	100%	Cerebrooculofacioskeletal syndrome 1, 214150 Cockayne syndrome, type B, 133540 Premature ovarian failure 11, 616946 UV-sensitive syndrome 1, 600630 De Sanctis-Cacchione syndrome, 278800
<i>ERCC6L2</i>	100%	99,40%	100%	100%	Bone marrow failure syndrome 2, 615715
<i>ERCC8</i>	99,50%	95,80%	100%	100%	Cockayne syndrome, type A, 216400 UV-sensitive syndrome 2, 614621
<i>ERGIC1</i>	95,20%	94,60%	98,40%	98,40%	?Arthrogryposis multiplex congenita, neurogenic type, 208100
<i>ERLIN1</i>	100%	100%	100%	100%	Spastic paraplegia 62, 615681
<i>ERLIN2</i>	100%	99,90%	100%	100%	Spastic paraplegia 18, autosomal recessive, 611225
<i>ESCO2</i>	98,70%	95,20%	100%	100%	Roberts syndrome, 268300 SC phocomelia syndrome, 269000
<i>ESPN</i>	44,60%	35,80%	100%	99,80%	?Usher syndrome, type 1M, 618632 Deafness, autosomal recessive 36, 609006 Deafness, neurosensory, without vestibular involvement, autosomal dominant, 609006
<i>ESR1</i>	100%	99,80%	100%	100%	Estrogen resistance, 615363 Breast cancer, somatic, 114480
<i>ESRP1</i>	99,90%	98,90%	100%	100%	?Deafness, autosomal recessive 109, 618013
<i>ESRRB</i>	99,90%	98,00%	100%	100%	Deafness, autosomal recessive 35, 608565
<i>ETFA</i>	100%	100%	100%	100%	Glutaric acidemia IIA, 231680
<i>ETFB</i>	100%	99,80%	100%	100%	Glutaric acidemia IIB, 231680
<i>ETFDH</i>	100%	99,80%	100%	100%	Glutaric acidemia IIC, 231680
<i>ETHE1</i>	99,90%	97,40%	100%	100%	Ethylmalonic encephalopathy, 602473
<i>EVC</i>	93,90%	88,60%	96,90%	94,80%	Ellis-van Creveld syndrome, 225500 ?Weyers acrofacial dysostosis, 193530

<i>EVC2</i>	97,70%	96,10%	100%	100%	Weyers acrofacial dysostosis, 193530 Ellis-van Creveld syndrome, 225500
<i>EXOC6B</i>	99,10%	97,60%	100%	100%	Spondyloepimetaphyseal dysplasia with joint laxity, type 3, 618395
<i>EXOSC2</i>	100%	100%	100%	100%	Short stature, hearing loss, retinitis pigmentosa, and distinctive facies, 617763
<i>EXOSC3</i>	99,50%	94,90%	100%	100%	Pontocerebellar hypoplasia, type 1B, 614678
<i>EXOSC8</i>	97,90%	91,20%	100%	100%	Pontocerebellar hypoplasia, type 1C, 616081
<i>EXOSC9</i>	99,70%	97,20%	100%	100%	Pontocerebellar hypoplasia, type 1D, 618065
<i>EXPH5</i>	100%	100%	100%	100%	Epidermolysis bullosa, nonspecific, autosomal recessive, 615028
<i>EXT2</i>	100%	99,30%	100%	100%	Exostoses, multiple, type 2, 133701 Seizures, scoliosis, and macrocephaly syndrome, 616682
<i>EXTL3</i>	100%	100%	100%	100%	Immunoskeletal dysplasia with neurodevelopmental abnormalities, 617425
<i>EYS</i>	99,70%	98,20%	100%	100%	Retinitis pigmentosa 25, 602772
<i>F10</i>	99,80%	99,10%	100%	100%	Factor X deficiency, 227600
<i>F11</i>	100%	100%	100%	100%	Factor XI deficiency, autosomal dominant, 612416 Factor XI deficiency, autosomal recessive, 612416
<i>F12</i>	99,90%	98,80%	100%	100%	Factor XII deficiency, 234000 Angioedema, hereditary, type III, 610618
<i>F13A1</i>	100%	100%	100%	100%	Factor XIII A deficiency, 613225
<i>F13B</i>	98,70%	93,50%	100%	100%	Factor XIII B deficiency, 613235
<i>F2</i>	99,90%	97,90%	100%	100%	Hypoprothrombinemia, 613679 Dysprothrombinemia, 613679 Thrombophilia due to thrombin defect, 188050
<i>F5</i>	99,40%	98,50%	100%	100%	Factor V deficiency, 227400 Thrombophilia due to activated protein C resistance, 188055
<i>F7</i>	100%	100%	100%	100%	Factor VII deficiency, 227500
<i>FA2H</i>	92,00%	83,10%	100%	100%	Spastic paraparesis 35, autosomal recessive, 612319
<i>FADD</i>	100%	100%	100%	100%	Infections, recurrent, with encephalopathy, hepatic dysfunction, and cardiovascular malformations, 613759
<i>FAH</i>	100%	100%	100%	100%	Tyrosinemia, type I, 276700
<i>FAM126A</i>	100%	99,40%	100%	100%	Leukodystrophy, hypomyelinating, 5, 610532
<i>FAM161A</i>	100%	99,70%	100%	100%	Retinitis pigmentosa 28, 606068
<i>FAM20A</i>	99,60%	94,70%	100%	100%	Amelogenesis imperfecta, type IG (enamel-renal syndrome), 204690
<i>FAM20C</i>	100%	100%	100%	99,80%	Raine syndrome, 259775
<i>FAM46A</i>	100%	99,70%	100%	100%	Osteogenesis imperfecta, type XVIII, 617952
<i>FAN1</i>	100%	99,80%	100%	100%	Interstitial nephritis, karyomegalic, 614817
<i>FANCA</i>	100%	99,40%	100%	100%	Fanconi anemia, complementation group A, 227650
<i>FANCB</i>	98,60%	94,10%	100%	100%	Fanconi anemia, complementation group B, 300514

<i>FANCC</i>	99,90%	99,30%	100%	100%	Fanconi anemia, complementation group C, 227645
<i>FANCD2</i>	99,50%	97,50%	98,80%	98,80%	Fanconi anemia, complementation group D2, 227646
<i>FANCE</i>	89,80%	85,10%	100%	99,90%	Fanconi anemia, complementation group E, 600901
<i>FANCF</i>	100%	100%	100%	100%	Fanconi anemia, complementation group F, 603467
<i>FANCG</i>	100%	99,90%	100%	100%	Fanconi anemia, complementation group G, 614082
<i>FANCI</i>	99,90%	99,20%	100%	100%	Fanconi anemia, complementation group I, 609053
<i>FANCL</i>	100%	98,60%	100%	100%	Fanconi anemia, complementation group L, 614083
<i>FAR1</i>	97,60%	92,80%	100%	100%	Peroxisomal fatty acyl-CoA reductase 1 disorder, 616154
<i>FARS2</i>	100%	100%	100%	100%	Spastic paraplegia 77, autosomal recessive, 617046 Combined oxidative phosphorylation deficiency 14, 614946
<i>FARSB</i>	98,80%	94,60%	100%	100%	Rajab interstitial lung disease with brain calcifications, 613658
<i>FASTKD2</i>	99,80%	98,90%	100%	100%	?Mitochondrial complex IV deficiency, 220110
<i>FAT4</i>	100%	100%	100%	100%	Van Maldergem syndrome 2, 615546 Hennekam lymphangiectasia-lymphedema syndrome 2, 616006
<i>FBLN5</i>	91,80%	91,80%	91,80%	91,80%	Macular degeneration, age-related, 3, 608895 ?Cutis laxa, autosomal dominant 2, 614434 Neuropathy, hereditary, with or without age-related macular degeneration, 608895 Cutis laxa, autosomal recessive, type IA, 219100
<i>FBP1</i>	100%	99,50%	100%	100%	Fructose-1,6-bisphosphatase deficiency, 229700
<i>FBXL3</i>	100%	100%	100%	100%	Intellectual developmental disorder with short stature, facial anomalies, and speech defects, 606220
<i>FBXL4</i>	100%	100%	100%	100%	Mitochondrial DNA depletion syndrome 13 (encephalomyopathic type), 615471
<i>FBXO31</i>	96,00%	93,10%	100%	99,90%	?Mental retardation, autosomal recessive 45, 615979
<i>FBXO7</i>	99,80%	97,90%	100%	100%	Parkinson disease 15, autosomal recessive, 260300
<i>FCGR3A</i>	99,00%	97,10%	100%	100%	Immunodeficiency 20, 615707
<i>FCN3</i>	100%	100%	100%	100%	Immunodeficiency due to ficolin 3 deficiency, 613860
<i>FDFT1</i>	97,70%	96,00%	100%	100%	Squalene synthase deficiency, 618156
<i>FDX2</i>	100%	100%	100%	100%	Mitochondrial myopathy, episodic, with optic atrophy and reversible leukoencephalopathy, 251900
<i>FDXR</i>	100%	99,30%	100%	100%	Auditory neuropathy and optic atrophy, 617717
<i>FECH</i>	100%	100%	100%	100%	Protoporphyrina, erythropoietic, 1, 177000
<i>FERMT1</i>	99,90%	97,90%	100%	100%	Kindler syndrome, 173650
<i>FERMT3</i>	100%	100%	100%	100%	Leukocyte adhesion deficiency, type III, 612840
<i>FEZF1</i>	100%	99,90%	100%	100%	Hypogonadotropic hypogonadism 22, with or without anosmia, 616030
<i>FGA</i>	99,10%	97,20%	100%	100%	Dysfibrinogenemia, congenital, 616004 Amyloidosis, familial visceral, 105200 Hypodysfibrinogenemia, congenital, 616004 Afibrinogenemia, congenital, 202400

<i>FGB</i>	99,80%	99,10%	100%	100%	Afibrinogenemia, congenital, 202400 Dysfibrinogenemia, congenital, 616004 Hypofibrinogenemia, congenital, 202400
<i>FGD4</i>	99,90%	99,40%	100%	100%	Charcot-Marie-Tooth disease, type 4H, 609311
<i>FGF20</i>	97,50%	87,60%	100%	100%	?Renal hypodysplasia/aplasia 2, 615721
<i>FGF23</i>	99,60%	97,50%	100%	100%	Tumoral calcinosis, hyperphosphatemic, familial, 2, 617993 Hypophosphatemic rickets, autosomal dominant, 193100
<i>FGF3</i>	99,80%	95,10%	100%	100%	Deafness, congenital with inner ear agenesis, microtia, and microdontia, 610706
<i>FGG</i>	99,70%	98,20%	100%	100%	Hypofibrinogenemia, congenital, 202400 Hypodysfibrinogenemia, 616004 Dysfibrinogenemia, congenital, 616004 Afibrinogenemia, congenital, 202400
<i>FH</i>	92,10%	88,30%	100%	100%	Fumarase deficiency, 606812 Leiomyomatosis and renal cell cancer, 150800
<i>FIBP</i>	100%	100%	100%	100%	Thauvin-Robinet-Faivre syndrome, 617107
<i>FIG4</i>	100%	99,80%	100%	100%	Yunis-Varon syndrome, 216340 ?Polymicrogyria, bilateral temporooccipital, 612691 Charcot-Marie-Tooth disease, type 4J, 611228 Amyotrophic lateral sclerosis 11, 612577
<i>FITM2</i>	100%	100%	100%	100%	Siddiqi syndrome, 618635
<i>FKBP10</i>	98,80%	97,20%	100%	100%	Bruck syndrome 1, 259450 Osteogenesis imperfecta, type XI, 610968
<i>FKBP14</i>	100%	99,90%	100%	100%	Ehlers-Danlos syndrome, kyphoscoliotic type, 2, 614557
<i>FKRP</i>	100%	100%	100%	99,90%	Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 5, 607155 Muscular dystrophy-dystroglycanopathy (congenital with or without mental retardation), type B, 5, 606612 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 5, 613153
<i>FKTN</i>	99,70%	97,00%	100%	100%	Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 4, 611588 Cardiomyopathy, dilated, 1X, 611615 Muscular dystrophy-dystroglycanopathy (congenital without mental retardation), type B, 4, 613152 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 4, 253800
<i>FLAD1</i>	100%	99,80%	100%	100%	Lipid storage myopathy due to flavin adenine dinucleotide synthetase deficiency, 255100
<i>FLG</i>	100%	99,90%	100%	100%	Ichthyosis vulgaris, 146700
<i>FLNB</i>	99,50%	98,80%	100%	100%	Larsen syndrome, 150250 Atelosteogenesis, type I, 108720 Boomerang dysplasia, 112310 Spondylocarpotarsal synostosis syndrome, 272460 Atelosteogenesis, type III, 108721

<i>FLVCR1</i>	100%	98,90%	100%	100%	Ataxia, posterior column, with retinitis pigmentosa, 609033
<i>FLVCR2</i>	100%	100%	100%	100%	Proliferative vasculopathy and hydranencephaly-hydrocephaly syndrome, 225790
<i>FMN2</i>	85,50%	82,50%	100%	100%	Mental retardation, autosomal recessive 47, 616193
<i>FMO3</i>	99,90%	99,70%	100%	100%	Trimethylaminuria, 602079
<i>FOLR1</i>	100%	100%	100%	100%	Neurodegeneration due to cerebral folate transport deficiency, 613068
<i>FOXE1</i>	96,90%	78,50%	99,90%	99,10%	Bamforth-Lazarus syndrome, 241850
<i>FOXE3</i>	82,60%	72,00%	94,40%	87,80%	Cataract 34, multiple types, 612968 Anterior segment dysgenesis 2, multiple subtypes, 610256
<i>FOXI1</i>	100%	100%	100%	100%	Enlarged vestibular aqueduct, 600791
<i>FOXN1</i>	100%	99,60%	100%	100%	T-cell lymphopenia, infantile, with or without nail dystrophy, autosomal dominant, 618806 T-cell immunodeficiency, congenital alopecia, and nail dystrophy, 601705
<i>FOXRED1</i>	100%	99,90%	100%	100%	Mitochondrial complex I deficiency, nuclear type 19, 618241
<i>FRAS1</i>	100%	99,40%	100%	100%	Fraser syndrome 1, 219000
<i>FREM1</i>	99,90%	99,10%	100%	100%	Manitoba oculotrichoanal syndrome, 248450 Trigonocephaly 2, 614485 Bifid nose with or without anorectal and renal anomalies, 608980
<i>FREM2</i>	100%	99,30%	100%	100%	Fraser syndrome 2, 617666 Cryptophthalmos, unilateral or bilateral, isolated, 123570
<i>FRMD4A</i>	90,70%	87,30%	96,60%	96,60%	?Corpus callosum, agenesis of, with facial anomalies and cerebellar ataxia, 616819
<i>FRRS1L</i>	79,70%	69,10%	99,20%	95,80%	Epileptic encephalopathy, early infantile, 37, 616981
<i>FSHB</i>	100%	100%	100%	100%	Hypogonadotropic hypogonadism 24 without anosmia, 229070
<i>FSHR</i>	99,50%	97,20%	100%	100%	Ovarian hyperstimulation syndrome, 608115 Ovarian dysgenesis 1, 233300 Ovarian response to FSH stimulation, 276400
<i>FTCD</i>	95,70%	91,00%	100%	100%	Glutamate formiminotransferase deficiency, 229100
<i>FTO</i>	83,80%	83,70%	94,20%	94,20%	Growth retardation, developmental delay, facial dysmorphism, 612938
<i>FUCA1</i>	100%	99,90%	100%	100%	Fucosidosis, 230000
<i>FUK</i>	97,70%	95,40%	100%	100%	Congenital disorder of glycosylation with defective fucosylation 2, 618324
<i>FUT8</i>	100%	99,20%	100%	100%	Congenital disorder of glycosylation with defective fucosylation 1, 618005
<i>FXN</i>	95,50%	80,10%	100%	100%	Friedreich ataxia with retained reflexes, 229300 Friedreich ataxia, 229300
<i>FYCO1</i>	100%	99,90%	100%	100%	Cataract 18, autosomal recessive, 610019
<i>FZD6</i>	100%	100%	100%	100%	Nail disorder, nonsyndromic congenital, 1, 161050
<i>G6PC</i>	100%	100%	100%	100%	Glycogen storage disease Ia, 232200
<i>G6PC3</i>	100%	99,90%	100%	100%	Dursun syndrome, 612541 Neutropenia, severe congenital 4, autosomal recessive, 612541
<i>GAA</i>	100%	99,90%	100%	100%	Glycogen storage disease II, 232300

<i>GAB1</i>	100%	99,40%	100%	100%	?Deafness, autosomal recessive 26, 605428
<i>GAD1</i>	100%	99,90%	100%	100%	?Cerebral palsy, spastic quadriplegic, 1, 603513
<i>GALC</i>	99,80%	98,30%	100%	100%	Krabbe disease, 245200
<i>GALE</i>	100%	100%	100%	100%	Galactose epimerase deficiency, 230350
<i>GALK1</i>	100%	99,10%	100%	100%	Galactokinase deficiency with cataracts, 230200
<i>GALNS</i>	100%	99,80%	100%	100%	Mucopolysaccharidosis IVA, 253000
<i>GALNT3</i>	99,80%	99,00%	100%	100%	Tumoral calcinosis, hyperphosphatemic, familial, 1, 211900
<i>GALT</i>	100%	99,70%	100%	100%	Galactosemia, 230400
<i>GAMT</i>	93,10%	82,70%	100%	100%	Cerebral creatine deficiency syndrome 2, 612736
<i>GAN</i>	100%	99,60%	100%	100%	Giant axonal neuropathy-1, 256850
<i>GAS2L2</i>	100%	100%	100%	100%	?Ciliary dyskinesia, primary, 41, 618449
<i>GAS8</i>	99,90%	99,30%	100%	100%	Ciliary dyskinesia, primary, 33, 616726
<i>GATM</i>	100%	100%	100%	100%	Cerebral creatine deficiency syndrome 3, 612718
<i>GBA</i>	100%	100%	100%	100%	Gaucher disease, type III, 231000 Gaucher disease, type IIIC, 231005 Gaucher disease, type I, 230800 Gaucher disease, perinatal lethal, 608013 Gaucher disease, type II, 230900
<i>GBA2</i>	100%	99,70%	100%	100%	Spastic paraparesis 46, autosomal recessive, 614409
<i>GBE1</i>	100%	99,60%	100%	100%	Polyglucosan body disease, adult form, 263570 Glycogen storage disease IV, 232500
<i>GCDH</i>	100%	99,20%	100%	100%	Glutaricaciduria, type I, 231670
<i>GCH1</i>	99,90%	95,50%	100%	100%	Hyperphenylalaninemia, BH4-deficient, B, 233910 Dystonia, DOPA-responsive, with or without hyperphenylalaninemia, 128230
<i>GCK</i>	100%	100%	100%	100%	Diabetes mellitus, noninsulin-dependent, late onset, 125853 Diabetes mellitus, permanent neonatal, 606176 MODY, type II, 125851 Hyperinsulinemic hypoglycemia, familial, 3, 602485
<i>GCLC</i>	99,80%	98,00%	100%	100%	Hemolytic anemia due to gamma-glutamylcysteine synthetase deficiency, 230450
<i>GCNT2</i>	99,50%	99,50%	100%	100%	Adult i phenotype without cataract, 110800 Cataract 13 with adult i phenotype, 116700
<i>GCSH</i>	75,70%	68,90%	100%	100%	?Glycine encephalopathy, 605899
<i>GDAP1</i>	99,80%	99,30%	100%	100%	Charcot-Marie-Tooth disease, recessive intermediate, A, 608340 Charcot-Marie-Tooth disease, type 4A, 214400 Charcot-Marie-Tooth disease, axonal, type 2K, 607831 Charcot-Marie-Tooth disease, axonal, with vocal cord paresis, 607706
<i>GDAP2</i>	100%	99,20%	100%	100%	Spinocerebellar ataxia, autosomal recessive 27, 618369

<i>GDF1</i>	73,90%	54,00%	98,70%	92,00%	Right atrial isomerism (Ivemark), 208530 Congenital heart defects, multiple types, 6, 613854
<i>GDF5</i>	100%	100%	100%	100%	?Acromesomelic dysplasia, Hunter-Thompson type, 201250 Symphalangism, proximal, 1B, 615298 Brachydactyly, type A1, C, 615072 Chondrodysplasia, Grebe type, 200700 Brachydactyly, type A2, 112600 Du Pan syndrome, 228900 Brachydactyly, type C, 113100 Multiple synostoses syndrome 2, 610017
<i>GEMIN4</i>	100%	99,50%	100%	100%	Neurodevelopmental disorder with microcephaly, cataracts, and renal abnormalities, 617913
<i>GFER</i>	99,60%	93,90%	100%	100%	Myopathy, mitochondrial progressive, with congenital cataract, hearing loss, and developmental delay, 613076
<i>GFM1</i>	99,90%	99,40%	100%	100%	Combined oxidative phosphorylation deficiency 1, 609060
<i>GFM2</i>	98,90%	95,20%	100%	100%	Combined oxidative phosphorylation deficiency 39, 618397
<i>GFPT1</i>	100%	99,40%	100%	100%	Myasthenia, congenital, 12, with tubular aggregates, 610542
<i>GGCX</i>	100%	99,90%	100%	100%	Vitamin K-dependent clotting factors, combined deficiency of, 1, 277450 Pseudoxanthoma elasticum-like disorder with multiple coagulation factor deficiency, 610842
<i>GGT1</i>	19,90%	18,40%	100%	100%	?Glutathionuria, 231950
<i>GH1</i>	100%	100%	100%	100%	Kowarski syndrome, 262650 Growth hormone deficiency, isolated, type IA, 262400 Growth hormone deficiency, isolated, type IB, 612781 Growth hormone deficiency, isolated, type II, 173100
<i>GHR</i>	99,60%	99,50%	99,80%	99,80%	Increased responsiveness to growth hormone, 604271 Laron dwarfism, 262500 Growth hormone insensitivity, partial, 604271
<i>GHRHR</i>	96,40%	96,10%	100%	100%	Growth hormone deficiency, isolated, type IV, 618157
<i>GHSR</i>	98,50%	95,80%	100%	100%	Growth hormone deficiency, isolated partial, 615925
<i>GIF</i>	100%	99,70%	100%	100%	Intrinsic factor deficiency, 261000
<i>GINS1</i>	99,30%	94,90%	100%	100%	Immunodeficiency 55, 617827
<i>GIPC3</i>	97,50%	94,20%	99,60%	98,10%	Deafness, autosomal recessive 15, 601869
<i>GJA1</i>	100%	100%	100%	100%	Erythrokeratoderma variabilis et progressiva 3, 617525 Craniometaphyseal dysplasia, autosomal recessive, 218400 Atrioventricular septal defect 3, 600309 Oculodentodigital dysplasia, 164200 Syndactyly, type III, 186100 Oculodentodigital dysplasia, autosomal recessive, 257850

					Hypoplastic left heart syndrome 1, 241550 Palmoplantar keratoderma with congenital alopecia, 104100
<i>GJB2</i>	100%	100%	100%	100%	Deafness, autosomal dominant 3A, 601544 Deafness, autosomal recessive 1A, 220290 Bart-Pumphrey syndrome, 149200 Vohwinkel syndrome, 124500 Keratoderma, palmoplantar, with deafness, 148350 Keratitis-ichthyosis-deafness syndrome, 148210 Hystrix-like ichthyosis with deafness, 602540
<i>GJB6</i>	100%	100%	100%	100%	Deafness, autosomal dominant 3B, 612643 Deafness, autosomal recessive 1B, 612645 Deafness, digenic GJB2/GJB6, 220290 Ectodermal dysplasia 2, Clouston type, 129500
<i>GJC2</i>	78,20%	58,70%	96,90%	91,40%	Spastic paraparesis 44, autosomal recessive, 613206 Lymphatic malformation 3, 613480 Leukodystrophy, hypomyelinating, 2, 608804
<i>GLB1</i>	99,90%	97,40%	100%	100%	GM1-gangliosidosis, type III, 230650 GM1-gangliosidosis, type I, 230500 Mucopolysaccharidosis type IVB (Morquio), 253010 GM1-gangliosidosis, type II, 230600
<i>GLDC</i>	89,90%	82,00%	100%	99,90%	Glycine encephalopathy, 605899
<i>GLDN</i>	94,60%	91,00%	100%	100%	Lethal congenital contracture syndrome 11, 617194
<i>GLE1</i>	100%	100%	100%	100%	Lethal congenital contracture syndrome 1, 253310 Congenital arthrogryposis with anterior horn cell disease, 611890
<i>GLIS2</i>	100%	99,80%	100%	100%	Nephronophthisis 7, 611498
<i>GLIS3</i>	100%	99,60%	100%	100%	Diabetes mellitus, neonatal, with congenital hypothyroidism, 610199
<i>GLRA1</i>	100%	99,80%	100%	100%	Hyperekplexia 1, 149400
<i>GLRB</i>	99,20%	95,10%	100%	100%	Hyperekplexia 2, 614619
<i>GLRX5</i>	97,30%	89,10%	99,60%	95,40%	Anemia, sideroblastic, 3, pyridoxine-refractory, 616860 Spasticity, childhood-onset, with hyperglycinemia, 616859
<i>GLS</i>	96,30%	87,20%	100%	99,90%	?Infantile cataract, skin abnormalities, glutamate excess, and impaired intellectual development, 618339 Global developmental delay, progressive ataxia, and elevated glutamine, 618412 Epileptic encephalopathy, early infantile, 71, 618328
<i>GLUL</i>	99,90%	98,20%	100%	100%	Glutamine deficiency, congenital, 610015
<i>GLYCTK</i>	98,80%	97,30%	100%	100%	D-glyceric aciduria, 220120
<i>GM2A</i>	100%	100%	100%	100%	GM2-gangliosidosis, AB variant, 272750
<i>GMPPA</i>	100%	100%	100%	100%	Alacrima, achalasia, and mental retardation syndrome, 615510

<i>GMPPB</i>	100%	100%	100%	100%	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 14, 615350 Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 14, 615351 Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 14, 615352
<i>GNAT2</i>	99,90%	99,00%	100%	100%	Achromatopsia 4, 613856
<i>GNB3</i>	100%	100%	100%	100%	Night blindness, congenital stationary, type 1H, 617024
<i>GNB5</i>	100%	98,80%	100%	100%	Intellectual developmental disorder with cardiac arrhythmia, 617173 Language delay and ADHD/cognitive impairment with or without cardiac arrhythmia, 617182
<i>GNE</i>	100%	99,70%	100%	100%	Sialuria, 269921 Nonaka myopathy, 605820
<i>GNMT</i>	100%	100%	100%	100%	Glycine N-methyltransferase deficiency, 606664
<i>GNPAT</i>	99,70%	97,30%	100%	100%	Rhizomelic chondrodysplasia punctata, type 2, 222765
<i>GNPTAB</i>	100%	99,90%	100%	100%	Mucolipidosis II alpha/beta, 252500 Mucolipidosis III alpha/beta, 252600
<i>GNPTG</i>	99,10%	94,30%	100%	99,90%	Mucolipidosis III gamma, 252605
<i>GNRHR</i>	100%	100%	100%	100%	Hypogonadotropic hypogonadism 7 without anosmia, 146110
<i>GNS</i>	98,40%	94,80%	100%	100%	Mucopolysaccharidosis type IIID, 252940
<i>GORAB</i>	100%	99,10%	100%	100%	Geroderma osteodysplasticum, 231070
<i>GOSR2</i>	95,90%	94,60%	100%	100%	Epilepsy, progressive myoclonic 6, 614018
<i>GP1BA</i>	98,60%	95,90%	100%	100%	Bernard-Soulier syndrome, type A1 (recessive), 231200 von Willebrand disease, platelet-type, 177820 Bernard-Soulier syndrome, type A2 (dominant), 153670
<i>GP1BB</i>	72,90%	59,60%	99,50%	95,00%	Giant platelet disorder, isolated, 231200 Bernard-Soulier syndrome, type B, 231200
<i>GP6</i>	100%	100%	94,90%	91,70%	Bleeding disorder, platelet-type, 11, 614201
<i>GP9</i>	96,50%	89,30%	100%	100%	Bernard-Soulier syndrome, type C, 231200
<i>GPAA1</i>	98,90%	95,90%	100%	100%	Glycosylphosphatidylinositol biosynthesis defect 15, 617810
<i>GPC6</i>	100%	100%	100%	100%	Omodyplasia 1, 258315
<i>GPD1</i>	100%	100%	100%	100%	Hypertriglyceridemia, transient infantile, 614480
<i>GPHN</i>	100%	99,50%	100%	100%	Molybdenum cofactor deficiency C, 615501
<i>GPI</i>	100%	100%	100%	100%	Hemolytic anemia, nonspherocytic, due to glucose phosphate isomerase deficiency, 613470
<i>GPIHBP1</i>	100%	100%	100%	100%	Hyperlipoproteinemia, type 1D, 615947
<i>GPNMB</i>	100%	100%	100%	100%	Amyloidosis, primary localized cutaneous, 3, 617920
<i>GPR179</i>	100%	100%	100%	100%	Night blindness, congenital stationary (complete), 1E, autosomal recessive, 614565
<i>GPR88</i>	99,40%	95,10%	98,80%	94,90%	?Chorea, childhood-onset, with psychomotor retardation, 616939
<i>GPSM2</i>	99,90%	99,20%	100%	100%	Chudley-McCullough syndrome, 604213
<i>GPT2</i>	99,20%	93,60%	100%	99,80%	Mental retardation, autosomal recessive 49, 616281
<i>GPX4</i>	90,50%	85,80%	98,20%	94,90%	Spondylometaphyseal dysplasia, Sedaghatian type, 250220

<i>GRAP</i>	82,80%	78,30%	100%	100%	Deafness, autosomal recessive 114, 618456
<i>GRHPR</i>	84,20%	81,30%	100%	99,30%	Hyperoxaluria, primary, type II, 260000
<i>GRID2</i>	100%	99,80%	100%	100%	Spinocerebellar ataxia, autosomal recessive 18, 616204
<i>GRIK2</i>	96,20%	95,40%	96,30%	96,30%	Mental retardation, autosomal recessive, 6, 611092
<i>GRIN1</i>	100%	100%	100%	100%	Neurodevelopmental disorder with or without hyperkinetic movements and seizures, autosomal recessive, 617820 Neurodevelopmental disorder with or without hyperkinetic movements and seizures, autosomal dominant, 614254
<i>GRIP1</i>	100%	99,70%	100%	100%	Fraser syndrome 3, 617667
<i>GRK1</i>	100%	100%	100%	100%	Oguchi disease-2, 613411
<i>GRM1</i>	100%	99,70%	100%	100%	Spinocerebellar ataxia 44, 617691 Spinocerebellar ataxia, autosomal recessive 13, 614831
<i>GRM6</i>	90,20%	80,60%	98,30%	96,30%	Night blindness, congenital stationary (complete), 1B, autosomal recessive, 257270
<i>GRN</i>	100%	100%	100%	100%	Ceroid lipofuscinosis, neuronal, 11, 614706 Aphasia, primary progressive, 607485 Frontotemporal lobar degeneration with ubiquitin-positive inclusions, 607485
<i>GRXCR1</i>	100%	99,80%	100%	100%	Deafness, autosomal recessive 25, 613285
<i>GRXCR2</i>	100%	100%	100%	100%	?Deafness, autosomal recessive 101, 615837
<i>GSC</i>	99,20%	92,40%	100%	100%	Short stature, auditory canal atresia, mandibular hypoplasia, skeletal abnormalities, 602471
<i>GSS</i>	100%	99,90%	100%	100%	Glutathione synthetase deficiency, 266130 Hemolytic anemia due to glutathione synthetase deficiency, 231900
<i>GSX2</i>	100%	100%	100%	100%	Diencephalic-mesencephalic junction dysplasia syndrome 2, 618646
<i>GTF2E2</i>	100%	99,80%	100%	100%	Trichothiodystrophy 6, nonphotosensitive, 616943
<i>GTF2H5</i>	100%	99,60%	100%	100%	Trichothiodystrophy 3, photosensitive, 616395
<i>GTPBP2</i>	100%	99,30%	100%	99,90%	Jaber-Elahi syndrome, 617988
<i>GTPBP3</i>	100%	99,80%	100%	100%	Combined oxidative phosphorylation deficiency 23, 616198
<i>GUCY1A3</i>	100%	99,80%	100%	100%	Moyamoya 6 with achalasia, 615750
<i>GUCY2C</i>	100%	99,60%	100%	100%	Diarrhea 6, 614616 Meconium ileus, 614665
<i>GUCY2D</i>	99,60%	96,20%	100%	100%	Cone-rod dystrophy 6, 601777 Leber congenital amaurosis 1, 204000 Night blindness, congenital stationary, type 1I, 618555 ?Choroidal dystrophy, central areolar 1, 215500
<i>GUF1</i>	99,70%	97,80%	100%	100%	?Epileptic encephalopathy, early infantile, 40, 617065
<i>GUSB</i>	92,90%	91,70%	100%	100%	Mucopolysaccharidosis VII, 253220
<i>GYG1</i>	99,90%	99,20%	100%	100%	?Glycogen storage disease XV, 613507 Polyglucosan body myopathy 2, 616199
<i>GYS1</i>	100%	98,60%	100%	100%	Glycogen storage disease 0, muscle, 611556

<i>GYS2</i>	99,80%	99,00%	100%	100%	Glycogen storage disease 0, liver, 240600
<i>GZF1</i>	100%	99,60%	100%	100%	Joint laxity, short stature, and myopia, 617662
<i>H6PD</i>	99,00%	99,00%	100%	100%	Cortisone reductase deficiency 1, 604931
<i>HAAO</i>	100%	99,80%	100%	100%	Vertebral, cardiac, renal, and limb defects syndrome 1, 617660
<i>HACE1</i>	100%	99,30%	100%	100%	Spastic paraparesis and psychomotor retardation with or without seizures, 616756
<i>HADH</i>	99,00%	97,50%	100%	100%	3-hydroxyacyl-CoA dehydrogenase deficiency, 231530 Hyperinsulinemic hypoglycemia, familial, 4, 609975
<i>HADHA</i>	97,10%	91,30%	100%	100%	LCHAD deficiency, 609016 HELLP syndrome, maternal, of pregnancy, 609016 Fatty liver, acute, of pregnancy, 609016 Trifunctional protein deficiency, 609015
<i>HADHB</i>	98,80%	89,70%	100%	100%	Trifunctional protein deficiency, 609015
<i>HAMP</i>	100%	100%	100%	100%	Hemochromatosis, type 2B, 613313
<i>HARS</i>	100%	100%	100%	100%	Charcot-Marie-Tooth disease, axonal, type 2W, 616625 Usher syndrome type 3B, 614504
<i>HARS2</i>	100%	100%	100%	100%	?Perrault syndrome 2, 614926
<i>HAVCR2</i>	100%	100%	100%	100%	T-cell lymphoma, subcutaneous panniculitis-like, 618398
<i>HAX1</i>	100%	100%	100%	100%	Neutropenia, severe congenital 3, autosomal recessive, 610738
<i>HBB</i>	100%	100%	100%	100%	Thalassemia, beta, 613985 Methemoglobinemia, beta type, 617971 Erythrocytosis 6, 617980 Heinz body anemia, 140700 Delta-beta thalassemia, 141749 Thalassemia-beta, dominant inclusion-body, 603902 Hereditary persistence of fetal hemoglobin, 141749 Sickle cell anemia, 603903
<i>HELLS</i>	97,80%	92,10%	100%	100%	Immunodeficiency-centromeric instability-facial anomalies syndrome 4, 616911
<i>HEPACAM</i>	86,00%	78,90%	100%	100%	Megalencephalic leukoencephalopathy with subcortical cysts 2A, 613925 Megalencephalic leukoencephalopathy with subcortical cysts 2B, remitting, with or without mental retardation, 613926
<i>HEPHL1</i>	100%	99,90%	100%	100%	?Abnormal hair, joint laxity, and developmental delay, 261990
<i>HERC1</i>	100%	100%	100%	100%	Macrocephaly, dysmorphic facies, and psychomotor retardation, 617011
<i>HERC2</i>	79,90%	77,20%	100%	100%	Mental retardation, autosomal recessive 38, 615516
<i>HES7</i>	84,40%	53,90%	100%	100%	Spondylocostal dysostosis 4, autosomal recessive, 613686
<i>HESX1</i>	99,70%	97,30%	100%	100%	Pituitary hormone deficiency, combined, 5, 182230 Septooptic dysplasia, 182230 Growth hormone deficiency with pituitary anomalies, 182230

<i>HEXA</i>	93,80%	93,30%	100%	100%	GM2-gangliosidosis, several forms, 272800 Tay-Sachs disease, 272800
<i>HEXB</i>	99,60%	96,90%	100%	99,90%	Sandhoff disease, infantile, juvenile, and adult forms, 268800
<i>HFE</i>	100%	99,70%	100%	100%	Hemochromatosis, 235200
<i>HFE2</i>	100%	100%	100%	100%	Hemochromatosis, type 2A, 602390
<i>HFM1</i>	96,30%	89,60%	100%	100%	Premature ovarian failure 9, 615724
<i>HGD</i>	100%	100%	100%	100%	Alkaptonuria, 203500
<i>HGF</i>	100%	99,40%	100%	100%	Deafness, autosomal recessive 39, 608265
<i>HGSNAT</i>	86,40%	86,30%	91,20%	89,30%	Retinitis pigmentosa 73, 616544 Mucopolysaccharidosis type IIIC (Sanfilippo C), 252930
<i>HIBCH</i>	98,20%	88,50%	100%	100%	3-hydroxyisobutryl-CoA hydrolase deficiency, 250620
<i>HIKESHI</i>	98,20%	90,40%	100%	100%	Leukodystrophy, hypomyelinating, 13, 616881
<i>HINT1</i>	98,30%	89,30%	100%	100%	Neuromyotonia and axonal neuropathy, autosomal recessive, 137200
<i>HK1</i>	100%	100%	100%	100%	Hemolytic anemia due to hexokinase deficiency, 235700 Neuropathy, hereditary motor and sensory, Russe type, 605285 Neurodevelopmental disorder with visual defects and brain anomalies, 618547 Retinitis pigmentosa 79, 617460
<i>HLCS</i>	100%	100%	100%	100%	Holocarboxylase synthetase deficiency, 253270
<i>HMGCL</i>	100%	99,80%	100%	100%	HMG-CoA lyase deficiency, 246450
<i>HMGCS2</i>	100%	99,60%	100%	100%	HMG-CoA synthase-2 deficiency, 605911
<i>HMOX1</i>	98,40%	89,90%	100%	100%	Heme oxygenase-1 deficiency, 614034
<i>HMX1</i>	62,40%	42,90%	99,70%	96,10%	Oculoauricular syndrome, 612109
<i>HNMT</i>	100%	99,80%	100%	100%	Mental retardation, autosomal recessive 51, 616739
<i>HOGA1</i>	100%	96,40%	100%	100%	Hyperoxaluria, primary, type III, 613616
<i>HOXA1</i>	100%	100%	100%	100%	Athabaskan brainstem dysgenesis syndrome, 601536 Bosley-Salih-Alorainy syndrome, 601536
<i>HOXA2</i>	100%	99,90%	100%	100%	Microtia with or without hearing impairment (AD), 612290 ?Microtia, hearing impairment, and cleft palate (AR), 612290
<i>HOXB1</i>	100%	100%	100%	100%	Facial paresis, hereditary congenital, 3, 614744
<i>HOXC13</i>	100%	99,90%	100%	100%	Ectodermal dysplasia 9, hair/nail type, 614931
<i>HPCA</i>	100%	100%	100%	100%	Dystonia 2, torsion, autosomal recessive, 224500
<i>HPD</i>	100%	100%	100%	100%	Tyrosinemia, type III, 276710 Hawkinsinuria, 140350
<i>HPGD</i>	100%	98,90%	100%	100%	Digital clubbing, isolated congenital, 119900 Hypertrophic osteoarthropathy, primary, autosomal recessive 1, 259100 Cranioosteoarthropathy, 259100
<i>HPS1</i>	100%	100%	100%	100%	Hermansky-Pudlak syndrome 1, 203300

<i>HPS3</i>	99,70%	97,50%	100%	100%	Hermansky-Pudlak syndrome 3, 614072
<i>HPS4</i>	100%	100%	100%	100%	Hermansky-Pudlak syndrome 4, 614073
<i>HPS5</i>	100%	99,70%	100%	100%	Hermansky-Pudlak syndrome 5, 614074
<i>HPS6</i>	97,10%	88,90%	100%	100%	Hermansky-Pudlak syndrome 6, 614075
<i>HPSE2</i>	100%	99,90%	100%	100%	Urofacial syndrome 1, 236730
<i>HR</i>	98,50%	95,60%	100%	100%	Hypotrichosis 4, 146550 Alopecia universalis, 203655 Atrichia with papular lesions, 209500
<i>HSD11B2</i>	86,00%	82,70%	99,90%	98,10%	Apparent mineralocorticoid excess, 218030
<i>HSD17B3</i>	100%	100%	100%	100%	Pseudohermaphroditism, male, with gynecomastia, 264300
<i>HSD17B4</i>	96,00%	93,70%	96,60%	96,60%	D-bifunctional protein deficiency, 261515 Perrault syndrome 1, 233400
<i>HSD3B2</i>	100%	99,70%	100%	100%	Adrenal hyperplasia, congenital, due to 3-beta-hydroxysteroid dehydrogenase 2 deficiency, 201810
<i>HSD3B7</i>	99,10%	95,50%	100%	100%	Bile acid synthesis defect, congenital, 1, 607765
<i>HSPA9</i>	88,50%	84,50%	100%	100%	Even-plus syndrome, 616854 Anemia, sideroblastic, 4, 182170
<i>HSPD1</i>	98,80%	93,70%	100%	100%	Spastic paraplegia 13, autosomal dominant, 605280 Leukodystrophy, hypomyelinating, 4, 612233
<i>HSPG2</i>	99,20%	97,70%	100%	99,90%	Dyssegmental dysplasia, Silverman-Handmaker type, 224410 Schwartz-Jampel syndrome, type 1, 255800
<i>HTRA1</i>	83,90%	80,00%	96,50%	92,10%	Cerebral arteriopathy, autosomal dominant, with subcortical infarcts and leukoencephalopathy, type 2, 616779 CARASIL syndrome, 600142
<i>HTRA2</i>	100%	99,90%	100%	100%	3-methylglutaconic aciduria, type VIII, 617248
<i>HYAL1</i>	100%	100%	100%	100%	?Mucopolysaccharidosis type IX, 601492
<i>HYDIN</i>	99,90%	99,30%	100%	100%	Ciliary dyskinesia, primary, 5, 608647
<i>HYLS1</i>	100%	100%	100%	100%	Hydrocephalus syndrome, 236680
<i>IARS</i>	100%	99,60%	100%	100%	Growth retardation, impaired intellectual development, hypotonia, and hepatopathy, 617093
<i>IARS2</i>	100%	99,90%	100%	100%	?Cataracts, growth hormone deficiency, sensory neuropathy, sensorineural hearing loss, and skeletal dysplasia, 616007
<i>IBA57</i>	93,70%	90,10%	100%	100%	?Spastic paraplegia 74, autosomal recessive, 616451 Multiple mitochondrial dysfunctions syndrome 3, 615330
<i>ICK</i>	99,90%	98,70%	100%	100%	Endocrine-cerebroosteodysplasia, 612651
<i>ICOS</i>	99,90%	99,80%	100%	100%	Immunodeficiency, common variable, 1, 607594
<i>IDH3B</i>	95,40%	95,40%	100%	100%	Retinitis pigmentosa 46, 612572
<i>IDUA</i>	93,70%	86,80%	100%	100%	Mucopolysaccharidosis Ih/s, 607015 Mucopolysaccharidosis Ih, 607014 Mucopolysaccharidosis Is, 607016

<i>IER3IP1</i>	91,90%	82,60%	100%	100%	Microcephaly, epilepsy, and diabetes syndrome, 614231
<i>IFNAR2</i>	100%	99,70%	100%	100%	?Immunodeficiency 45, 616669
<i>IFNGR1</i>	100%	99,40%	100%	100%	Immunodeficiency 27A, mycobacteriosis, AR, 209950 Immunodeficiency 27B, mycobacteriosis, AD, 615978
<i>IFNGR2</i>	93,30%	93,20%	100%	99,80%	Immunodeficiency 28, mycobacteriosis, 614889
<i>IFT122</i>	100%	99,60%	100%	100%	Cranioectodermal dysplasia 1, 218330
<i>IFT140</i>	99,80%	98,80%	100%	100%	Retinitis pigmentosa 80, 617781 Short-rib thoracic dysplasia 9 with or without polydactyly, 266920
<i>IFT172</i>	99,90%	99,10%	100%	100%	Retinitis pigmentosa 71, 616394 Short-rib thoracic dysplasia 10 with or without polydactyly, 615630
<i>IFT27</i>	100%	100%	100%	100%	?Bardet-Biedl syndrome 19, 615996
<i>IFT43</i>	100%	100%	100%	100%	?Cranioectodermal dysplasia 3, 614099 Short-rib thoracic dysplasia 18 with polydactyly, 617866 ?Retinitis pigmentosa 81, 617871
<i>IFT52</i>	100%	99,90%	100%	100%	Short-rib thoracic dysplasia 16 with or without polydactyly, 617102
<i>IFT57</i>	99,90%	99,10%	100%	100%	?Orofaciodigital syndrome XVIII, 617927
<i>IFT74</i>	98,40%	93,90%	100%	100%	?Bardet-Biedl syndrome 20, 617119
<i>IFT80</i>	97,60%	88,20%	100%	100%	Short-rib thoracic dysplasia 2 with or without polydactyly, 611263
<i>IFT81</i>	93,50%	90,10%	95,00%	94,90%	Short-rib thoracic dysplasia 19 with or without polydactyly, 617895
<i>IGF1</i>	100%	99,90%	100%	100%	Growth retardation with deafness and mental retardation due to IGF1 deficiency, 608747
<i>IGF1R</i>	100%	99,90%	100%	100%	Insulin-like growth factor I, resistance to, 270450
<i>IGFALS</i>	99,90%	99,60%	100%	100%	Acid-labile subunit, deficiency of, 615961
<i>IGFBP7</i>	92,70%	87,20%	100%	100%	Retinal arterial macroaneurysm with supravalvular pulmonic stenosis, 614224
<i>IGHM</i>	100%	100%	100%	100%	Agammaglobulinemia 1, 601495
<i>IGHMBP2</i>	98,80%	95,10%	100%	100%	Neuronopathy, distal hereditary motor, type VI, 604320 Charcot-Marie-Tooth disease, axonal, type 2S, 616155
<i>IGKC</i>	100%	100%	100%	100%	Kappa light chain deficiency, 614102
<i>IGLL1</i>	99,90%	96,90%	100%	100%	Agammaglobulinemia 2, 613500
<i>IHH</i>	100%	100%	100%	100%	Acrocapitofemoral dysplasia, 607778 Brachydactyly, type A1, 112500
<i>IKBKB</i>	99,70%	96,50%	97,20%	97,20%	Immunodeficiency 15A, 618204 Immunodeficiency 15B, 615592
<i>IL10RA</i>	100%	100%	100%	100%	Inflammatory bowel disease 28, early onset, autosomal recessive, 613148
<i>IL10RB</i>	99,80%	98,00%	100%	100%	Inflammatory bowel disease 25, early onset, autosomal recessive, 612567
<i>IL11RA</i>	100%	99,90%	100%	100%	Craniosynostosis and dental anomalies, 614188
<i>IL12B</i>	100%	99,30%	100%	100%	Immunodeficiency 29, mycobacteriosis, 614890
<i>IL12RB1</i>	98,90%	96,30%	94,10%	94,10%	Immunodeficiency 30, 614891

<i>IL17RA</i>	100%	99,40%	100%	100%	Immunodeficiency 51, 613953
<i>IL17RC</i>	100%	99,90%	100%	100%	Candidiasis, familial, 9, 616445
<i>IL1RN</i>	100%	100%	100%	100%	Interleukin 1 receptor antagonist deficiency, 612852
<i>IL21R</i>	100%	100%	100%	100%	Immunodeficiency 56, 615207
<i>IL2RA</i>	100%	99,70%	100%	100%	Immunodeficiency 41 with lymphoproliferation and autoimmunity, 606367
<i>IL2RB</i>	100%	99,70%	100%	100%	Immunodeficiency 63 with lymphoproliferation and autoimmunity, 618495
<i>IL36RN</i>	100%	100%	100%	100%	Psoriasis 14, pustular, 614204
<i>IL6ST</i>	96,40%	90,30%	100%	100%	Hyper-IgE recurrent infection syndrome 4, autosomal recessive, 618523
<i>IL7R</i>	100%	99,80%	100%	100%	Severe combined immunodeficiency, T-cell negative, B-cell/natural killer cell-positive type, 608971
<i>ILDR1</i>	99,90%	98,50%	100%	100%	Deafness, autosomal recessive 42, 609646
<i>IMPA1</i>	97,00%	87,00%	100%	100%	Mental retardation, autosomal recessive 59, 617323
<i>IMPAD1</i>	100%	100%	100%	100%	Chondrodysplasia with joint dislocations, GPAPP type, 614078
<i>IMPG2</i>	99,80%	98,40%	100%	100%	Macular dystrophy, vitelliform, 5, 616152 Retinitis pigmentosa 56, 613581
<i>INPP5E</i>	97,10%	92,70%	100%	100%	Mental retardation, truncal obesity, retinal dystrophy, and micropenis, 610156 Joubert syndrome 1, 213300
<i>INPP5K</i>	100%	100%	100%	100%	Muscular dystrophy, congenital, with cataracts and intellectual disability, 617404
<i>INPPL1</i>	98,40%	94,50%	99,90%	99,70%	Opsismodysplasia, 258480
<i>INSR</i>	97,80%	94,70%	99,90%	99,20%	Hyperinsulinemic hypoglycemia, familial, 5, 609968 Rabson-Mendenhall syndrome, 262190 Diabetes mellitus, insulin-resistant, with acanthosis nigricans, 610549 Leprechaunism, 246200
<i>MRAP</i>	100%	100%	100%	100%	Glucocorticoid deficiency 2, 607398
<i>MR E11</i>	98,90%	93,30%	100%	100%	Ataxia-telangiectasia-like disorder 1, 604391
<i>MR M2</i>	100%	99,50%	99,00%	99,00%	?Mitochondrial DNA depletion syndrome 17, 618567
<i>MR PL3</i>	93,20%	87,20%	100%	100%	Combined oxidative phosphorylation deficiency 9, 614582
<i>MR PL44</i>	99,90%	98,70%	100%	100%	?Combined oxidative phosphorylation deficiency 16, 615395
<i>MR PS14</i>	100%	100%	100%	100%	?Combined oxidative phosphorylation deficiency 38, 618378
<i>MR PS16</i>	100%	99,60%	100%	100%	Combined oxidative phosphorylation deficiency 2, 610498
<i>MR PS2</i>	99,60%	96,90%	100%	100%	Combined oxidative phosphorylation deficiency 36, 617950

<i>MRPS22</i>	99,80%	99,10%	100%	100%	Combined oxidative phosphorylation deficiency 5, 611719 Ovarian dysgenesis 7, 618117
<i>MRPS34</i>	97,60%	92,00%	100%	100%	Combined oxidative phosphorylation deficiency 32, 617664
<i>MRPS7</i>	100%	100%	100%	100%	?Combined oxidative phosphorylation deficiency 34, 617872
<i>INTS1</i>	99,80%	98,50%	100%	100%	Neurodevelopmental disorder with cataracts, poor growth, and dysmorphic facies, 618571
<i>INTS8</i>	99,90%	98,80%	100%	100%	?Neurodevelopmental disorder with cerebellar hypoplasia and spasticity, 618572
<i>INTU</i>	99,70%	98,10%	100%	100%	?Short-rib thoracic dysplasia 20 with polydactyly, 617925 ?Orofaciodigital syndrome XVII, 617926
<i>INVS</i>	100%	100%	100%	100%	Nephronophthisis 2, infantile, 602088
<i>IQCB1</i>	93,90%	85,00%	100%	100%	Senior-Loken syndrome 5, 609254
<i>IRAK4</i>	99,80%	97,70%	100%	100%	IRAK4 deficiency, 607676 Invasive pneumococcal disease, recurrent isolated, 1, 610799
<i>IREB2</i>	100%	99,80%	100%	100%	Neurodegeneration, early-onset, with choreoathetoid movements and microcytic anemia, 618451
<i>IRF7</i>	100%	99,90%	100%	100%	?Immunodeficiency 39, 616345
<i>IRF8</i>	99,00%	95,70%	100%	100%	Immunodeficiency 32B, monocyte and dendritic cell deficiency, autosomal recessive, 226990 Immunodeficiency 32A, mycobacteriosis, autosomal dominant, 614893
<i>IRF9</i>	100%	100%	100%	100%	Immunodeficiency 65, susceptibility to viral infections, 618648
<i>IRX5</i>	99,90%	98,20%	100%	99,80%	Hamamy syndrome, 611174
<i>ISCA1</i>	94,20%	85,90%	95,10%	95,10%	Multiple mitochondrial dysfunctions syndrome 5, 617613
<i>ISCA2</i>	100%	98,80%	100%	100%	Multiple mitochondrial dysfunctions syndrome 4, 616370
<i>ISCU</i>	100%	100%	100%	100%	Myopathy with lactic acidosis, hereditary, 255125
<i>ISG15</i>	100%	100%	100%	100%	Immunodeficiency 38, 616126
<i>ISPD</i>	98,50%	94,80%	100%	99,40%	Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 7, 616052 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 7, 614643
<i>ITCH</i>	95,40%	95,20%	100%	99,00%	Autoimmune disease, multisystem, with facial dysmorphism, 613385
<i>ITGA2B</i>	99,70%	97,80%	100%	100%	Glanzmann thrombasthenia, 273800 Bleeding disorder, platelet-type, 16, autosomal dominant, 187800 Thrombocytopenia, neonatal alloimmune, BAK antigen related, 0
<i>ITGA3</i>	99,50%	97,40%	100%	100%	Interstitial lung disease, nephrotic syndrome, and epidermolysis bullosa, congenital, 614748
<i>ITGA6</i>	99,90%	98,90%	100%	100%	Epidermolysis bullosa, junctional, with pyloric stenosis, 226730
<i>ITGA7</i>	99,60%	98,00%	100%	100%	Muscular dystrophy, congenital, due to ITGA7 deficiency, 613204
<i>ITGA8</i>	99,90%	99,70%	100%	100%	Renal hypodysplasia/aplasia 1, 191830
<i>ITGB2</i>	100%	100%	100%	100%	Leukocyte adhesion deficiency, 116920
<i>ITGB3</i>	100%	99,40%	100%	100%	Bleeding disorder, platelet-type, 16, autosomal dominant, 187800 Glanzmann thrombasthenia, 273800

					Purpura, posttransfusion, 0 Thrombocytopenia, neonatal alloimmune, 0
<i>ITGB4</i>	98,40%	96,20%	100%	100%	Epidermolysis bullosa of hands and feet, 131800 Epidermolysis bullosa, junctional, with pyloric atresia, 226730 Epidermolysis bullosa, junctional, non-Herlitz type, 226650
<i>ITGB6</i>	97,20%	95,80%	100%	100%	Amelogenesis imperfecta, type IH, 616221
<i>ITK</i>	100%	98,90%	100%	100%	Lymphoproliferative syndrome 1, 613011
<i>ITPA</i>	100%	100%	100%	100%	Epileptic encephalopathy, early infantile, 35, 616647
<i>ITPR1</i>	100%	99,90%	100%	100%	Spinocerebellar ataxia 15, 606658 Gillespie syndrome, 206700 Spinocerebellar ataxia 29, congenital nonprogressive, 117360
<i>IVD</i>	100%	100%	100%	100%	Isovaleric acidemia, 243500
<i>IYD</i>	99,50%	95,70%	100%	100%	Thyroid dyshormonogenesis 4, 274800
<i>JAGN1</i>	100%	100%	100%	100%	Neutropenia, severe congenital, 6, autosomal recessive, 616022
<i>JAK3</i>	99,90%	98,70%	100%	100%	SCID, autosomal recessive, T-negative/B-positive type, 600802
<i>JAM3</i>	100%	99,90%	100%	100%	Hemorrhagic destruction of the brain, subependymal calcification, and cataracts, 613730
<i>JPH1</i>	100%	99,90%	100%	100%	?Charcot-Marie-Tooth disease, axonal, autosomal dominant, type 2K, 607831
<i>JUP</i>	100%	99,50%	100%	100%	Arrhythmogenic right ventricular dysplasia 12, 611528 Naxos disease, 601214
<i>KALRN</i>	99,90%	99,60%	100%	100%	No OMIM disease ID
<i>KANK2</i>	100%	100%	100%	100%	Nephrotic syndrome, type 16, 617783 Palmoplantar keratoderma and woolly hair, 616099
<i>KARS</i>	100%	99,90%	100%	100%	Deafness, autosomal recessive 89, 613916 ?Charcot-Marie-Tooth disease, recessive intermediate, B, 613641
<i>KATNB1</i>	100%	99,90%	100%	100%	Lissencephaly 6, with microcephaly, 616212
<i>KCNE1</i>	100%	100%	100%	100%	Long QT syndrome 5, 613695 Jervell and Lange-Nielsen syndrome 2, 612347
<i>KCNJ1</i>	100%	100%	100%	100%	Bartter syndrome, type 2, 241200
<i>KCNJ10</i>	89,30%	89,00%	100%	100%	Enlarged vestibular aqueduct, digenic, 600791 SESAME syndrome, 612780
<i>KCNJ11</i>	100%	100%	100%	100%	Maturity-onset diabetes of the young, type 13, 616329 Diabetes, permanent neonatal, with or without neurologic features, 606176 Diabetes mellitus, transient neonatal, 3, 610582 Hyperinsulinemic hypoglycemia, familial, 2, 601820
<i>KCNJ13</i>	100%	100%	100%	100%	Leber congenital amaurosis 16, 614186 Snowflake vitreoretinal degeneration, 193230

<i>KCNMA1</i>	94,40%	93,60%	100%	100%	Liang-Wang syndrome, 618729 Cerebellar atrophy, developmental delay, and seizures, 617643 Paroxysmal nonkinesigenic dyskinesia, 3, with or without generalized epilepsy, 609446
<i>KCNQ1</i>	95,50%	94,20%	100%	99,80%	Long QT syndrome 1, 192500 Jervell and Lange-Nielsen syndrome, 220400 Short QT syndrome 2, 609621 Atrial fibrillation, familial, 3, 607554
<i>KCNV2</i>	100%	99,90%	100%	100%	Retinal cone dystrophy 3B, 610356
<i>KCTD7</i>	95,00%	95,00%	100%	100%	Epilepsy, progressive myoclonic 3, with or without intracellular inclusions, 611726
<i>KDM5B</i>	99,50%	97,90%	97,70%	97,70%	Mental retardation, autosomal recessive 65, 618109
<i>KERA</i>	100%	100%	100%	100%	Cornea plana 2, autosomal recessive, 217300
<i>KHDC3L</i>	100%	99,80%	100%	100%	Hydatidiform mole, recurrent, 2, 614293
<i>KIAA0556</i>	100%	99,90%	100%	100%	Joubert syndrome 26, 616784
<i>KIAA0586</i>	97,30%	93,10%	95,80%	95,80%	Joubert syndrome 23, 616490 Short-rib thoracic dysplasia 14 with polydactyly, 616546
<i>KIAA0753</i>	100%	99,30%	100%	100%	?Orofaciodigital syndrome XV, 617127
<i>KIAA1109</i>	99,80%	99,20%	100%	100%	Alkuraya-Kucinskas syndrome, 617822
<i>KIAA1549</i>	97,90%	96,40%	98,80%	98,00%	Retinitis pigmentosa 86, 618613
<i>KIF14</i>	99,60%	97,70%	100%	100%	?Meckel syndrome 12, 616258 Microcephaly 20, primary, autosomal recessive, 617914
<i>KIF1A</i>	99,40%	97,10%	100%	100%	NESCAV syndrome, 614255 Spastic paraplegia 30, autosomal dominant, 610357 Neuropathy, hereditary sensory, type IIC, 614213 Spastic paraplegia 30, autosomal recessive, 610357
<i>KIF1BP</i>	96,10%	96,10%	96,10%	96,10%	Goldberg-Shprintzen megacolon syndrome, 609460
<i>KIF1C</i>	100%	100%	100%	100%	Spastic ataxia 2, autosomal recessive, 611302
<i>KIF7</i>	93,60%	90,60%	99,10%	97,80%	?Hydrocephalus syndrome 2, 614120 Acrocallosal syndrome, 200990 Joubert syndrome 12, 200990 ?Al-Gazali-Bakalinova syndrome, 607131
<i>KISS1R</i>	100%	99,50%	100%	100%	Hypogonadotropic hypogonadism 8 with or without anosmia, 614837 ?Precocious puberty, central, 1, 176400
<i>KIZ</i>	100%	99,20%	100%	100%	Retinitis pigmentosa 69, 615780
<i>KL</i>	98,20%	97,20%	98,50%	97,50%	?Tumoral calcinosis, hyperphosphatemic, familial, 3, 617994
<i>KLC2</i>	99,20%	97,90%	100%	100%	Spastic paraparesis, optic atrophy, and neuropathy, 609541
<i>KLHL3</i>	100%	99,30%	100%	100%	Pseudohypoaldosteronism, type IID, 614495
<i>KLHL40</i>	100%	100%	100%	100%	Nemaline myopathy 8, autosomal recessive, 615348
<i>KLHL41</i>	100%	99,90%	100%	100%	Nemaline myopathy 9, 615731

<i>KLHL7</i>	99,90%	99,80%	100%	100%	Retinitis pigmentosa 42, 612943 PERCHING syndrome, 617055
<i>KLK4</i>	100%	100%	100%	100%	Amelogenesis imperfecta, type IIA1, 204700
<i>KLKB1</i>	100%	99,50%	100%	100%	Fletcher factor (prekallikrein) deficiency, 612423
<i>KMT2B</i>	95,80%	94,00%	98,70%	97,90%	Dystonia 28, childhood-onset, 617284
<i>KNL1</i>	99,20%	98,10%	98,90%	98,80%	Microcephaly 4, primary, autosomal recessive, 604321
<i>KPTN</i>	100%	100%	100%	100%	Mental retardation, autosomal recessive 41, 615637
<i>KRT10</i>	100%	99,30%	100%	100%	Epidermolytic hyperkeratosis, 113800 Ichthyosis with confetti, 609165 Ichthyosis, cyclic, with epidermolytic hyperkeratosis, 607602
<i>KRT14</i>	89,00%	81,90%	100%	100%	Naegeli-Franceschetti-Jadassohn syndrome, 161000 Dermatopathia pigmentosa reticularis, 125595 Epidermolysis bullosa simplex, Koebner type, 131900 Epidermolysis bullosa simplex, recessive 1, 601001 Epidermolysis bullosa simplex, Dowling-Meara type, 131760 Epidermolysis bullosa simplex, Weber-Cockayne type, 131800
<i>KRT18</i>	86,70%	70,90%	100%	100%	Cirrhosis, cryptogenic, 215600
<i>KRT5</i>	100%	100%	100%	100%	Epidermolysis bullosa simplex, Weber-Cockayne type, 131800 Epidermolysis bullosa simplex-MCR, 609352 Epidermolysis bullosa simplex-MP, 131960 Dowling-Degos disease 1, 179850 Epidermolysis bullosa simplex, Koebner type, 131900 Epidermolysis bullosa simplex, Dowling-Meara type, 131760 Epidermolysis bullosa simplex, recessive 1, 601001
<i>KRT8</i>	90,60%	69,60%	100%	100%	Cirrhosis, cryptogenic, 215600
<i>KRT85</i>	99,00%	93,60%	100%	100%	Ectodermal dysplasia 4, hair/nail type, 602032
<i>KY</i>	100%	99,70%	100%	100%	Myopathy, myofibrillar, 7, 617114
<i>KYNU</i>	99,60%	97,10%	100%	100%	Vertebral, cardiac, renal, and limb defects syndrome 2, 617661 ?Hydroxykynureninuria, 236800
<i>L2HGDH</i>	99,00%	97,20%	100%	100%	L-2-hydroxyglutaric aciduria, 236792
<i>LAMA1</i>	100%	99,70%	100%	100%	Poretti-Boltshauser syndrome, 615960
<i>LAMA2</i>	100%	99,60%	100%	100%	Muscular dystrophy, limb-girdle, autosomal recessive 23, 618138 Muscular dystrophy, congenital, merosin deficient or partially deficient, 607855
<i>LAMA3</i>	100%	99,70%	100%	100%	Epidermolysis bullosa, junctional, Herlitz type, 226700 Laryngoonychocutaneous syndrome, 245660 Epidermolysis bullosa, generalized atrophic benign, 226650
<i>LAMB1</i>	100%	99,90%	100%	100%	Lissencephaly 5, 615191

<i>LAMB2</i>	100%	99,70%	100%	100%	Pierson syndrome, 609049 Nephrotic syndrome, type 5, with or without ocular abnormalities, 614199
<i>LAMB3</i>	100%	99,60%	100%	100%	Amelogenesis imperfecta, type IA, 104530 Epidermolysis bullosa, junctional, Herlitz type, 226700 Epidermolysis bullosa, junctional, non-Herlitz type, 226650
<i>LAMC2</i>	99,80%	98,00%	100%	100%	Epidermolysis bullosa, junctional, non-Herlitz type, 226650 Epidermolysis bullosa, junctional, Herlitz type, 226700
<i>LAMC3</i>	98,60%	97,10%	100%	99,60%	Cortical malformations, occipital, 614115
<i>LAMTOR2</i>	100%	99,70%	100%	100%	Immunodeficiency due to defect in MAPBP-interacting protein, 610798
<i>LARGE1</i>	100%	99,60%	100%	100%	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 6, 608840 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 6, 613154
<i>LARP7</i>	88,50%	78,40%	100%	100%	Alazami syndrome, 615071
<i>LARS</i>	99,80%	98,40%	100%	100%	?Infantile liver failure syndrome 1, 615438
<i>LARS2</i>	100%	100%	100%	100%	Perrault syndrome 4, 615300 ?Hydrops, lactic acidosis, and sideroblastic anemia, 617021
<i>LAT</i>	100%	99,20%	100%	100%	Immunodeficiency 52, 617514
<i>LBR</i>	99,40%	94,50%	100%	100%	Pelger-Huet anomaly, 169400 Greenberg skeletal dysplasia, 215140 ?Reynolds syndrome, 613471 Pelger-Huet anomaly with mild skeletal anomalies, 618019
<i>LCA5</i>	99,90%	99,20%	100%	100%	Leber congenital amaurosis 5, 604537
<i>LCAT</i>	99,00%	93,80%	100%	100%	Norum disease, 245900 Fish-eye disease, 136120
<i>LCK</i>	98,90%	96,60%	100%	100%	?Immunodeficiency 22, 615758
<i>LCT</i>	99,80%	98,50%	100%	100%	Lactase deficiency, congenital, 223000
<i>LDHA</i>	95,00%	91,70%	100%	100%	Glycogen storage disease XI, 612933
<i>LDHD</i>	100%	99,50%	100%	100%	D-lactic aciduria, 245450
<i>LDLRAP1</i>	98,80%	94,20%	100%	100%	Hypercholesterolemia, familial, 4, 603813
<i>LEMD2</i>	98,70%	92,00%	100%	100%	Cataract 46, juvenile-onset, 212500
<i>LEP</i>	99,90%	97,30%	100%	100%	Obesity, morbid, due to leptin deficiency, 614962
<i>LEPR</i>	94,30%	92,60%	94,60%	94,60%	Obesity, morbid, due to leptin receptor deficiency, 614963
<i>LFNG</i>	87,90%	86,40%	92,20%	87,70%	Spondylocostal dysostosis 3, autosomal recessive, 609813
<i>LGI4</i>	99,90%	97,90%	100%	100%	Arthrogryposis multiplex congenita, neurogenic, with myelin defect, 617468
<i>LHB</i>	90,40%	38,90%	100%	100%	Hypogonadotropic hypogonadism 23 with or without anosmia, 228300
<i>LHCGR</i>	94,10%	92,30%	100%	100%	Leydig cell adenoma, somatic, with precocious puberty, 176410 Precocious puberty, male, 176410 Luteinizing hormone resistance, female, 238320

					Leydig cell hypoplasia with pseudohermaphroditism, 238320 Leydig cell hypoplasia with hypergonadotropic hypogonadism, 238320
<i>LHFPL5</i>	100%	100%	100%	100%	Deafness, autosomal recessive 67, 610265
<i>LHX3</i>	96,60%	96,50%	100%	100%	Pituitary hormone deficiency, combined, 3, 221750
<i>LIAS</i>	100%	99,10%	100%	100%	Hyperglycinemia, lactic acidosis, and seizures, 614462
<i>LIFR</i>	99,70%	98,00%	100%	100%	Stuve-Wiedemann syndrome/Schwartz-Jampel type 2 syndrome, 601559
<i>LIG4</i>	100%	99,90%	100%	100%	LIG4 syndrome, 606593
<i>LIM2</i>	100%	100%	100%	100%	Cataract 19, multiple types, 615277
<i>LIMS2</i>	93,00%	92,70%	99,80%	98,90%	?Muscular dystrophy, autosomal recessive, with cardiomyopathy and triangular tongue, 616827
<i>LINGO1</i>	100%	100%	100%	100%	Mental retardation, autosomal recessive 64, 618103
<i>LINS1</i>	100%	99,10%	100%	100%	Mental retardation, autosomal recessive 27, 614340
<i>LIPA</i>	99,20%	95,20%	95,20%	95,20%	Wolman disease, 278000 Cholesteryl ester storage disease, 278000
<i>LIPC</i>	100%	99,40%	100%	100%	Hepatic lipase deficiency, 614025
<i>LIPE</i>	100%	99,00%	100%	100%	Lipodystrophy, familial partial, type 6, 615980
<i>LIPH</i>	100%	99,80%	100%	100%	Hypotrichosis 7, 604379 Woolly hair, autosomal recessive 2 with or without hypotrichosis, 604379
<i>LIPN</i>	100%	98,90%	100%	100%	Ichthyosis, congenital, autosomal recessive 8, 613943
<i>LIPT1</i>	100%	99,90%	100%	100%	Lipoyletransferase 1 deficiency, 616299
<i>LIPT2</i>	94,90%	75,20%	100%	100%	Encephalopathy, neonatal severe, with lactic acidosis and brain abnormalities, 617668
<i>LMAN1</i>	99,80%	99,20%	100%	100%	Combined factor V and VIII deficiency, 227300
<i>LMAN2L</i>	100%	99,70%	100%	100%	?Mental retardation, autosomal recessive, 52, 616887
<i>LMBR1</i>	98,10%	96,20%	98,70%	98,70%	Triphalangeal thumb-polysyndactyly syndrome, 174500 Syndactyly, type IV, 186200 Triphalangeal thumb, type I, 174500 Acheiropody, 200500 Laurin-Sandrow syndrome, 135750 Hypoplastic or aplastic tibia with polydactyly, 188740 Polydactyly, preaxial type II, 174500
<i>LMBRD1</i>	98,50%	93,90%	100%	100%	Methylmalonic aciduria and homocystinuria, cblF type, 277380
<i>LMF1</i>	100%	99,60%	100%	100%	Lipase deficiency, combined, 246650
<i>LMNA</i>	97,40%	91,90%	100%	100%	Muscular dystrophy, congenital, 613205 Lipodystrophy, familial partial, type 2, 151660 Charcot-Marie-Tooth disease, type 2B1, 605588 Cardiomyopathy, dilated, 1A, 115200 Heart-hand syndrome, Slovenian type, 610140 Hutchinson-Gilford progeria, 176670 Restrictive dermopathy, lethal, 275210

					Mandibuloacral dysplasia, 248370 Emery-Dreifuss muscular dystrophy 2, autosomal dominant, 181350 Emery-Dreifuss muscular dystrophy 3, autosomal recessive, 616516 Malouf syndrome, 212112
<i>LMNB2</i>	97,50%	94,30%	98,20%	96,90%	?Epilepsy, progressive myoclonic, 9, 616540
<i>LMOD3</i>	100%	99,70%	100%	100%	Nemaline myopathy 10, 616165
<i>LNPK</i>	98,40%	92,80%	93,30%	93,30%	Neurodevelopmental disorder with epilepsy and hypoplasia of the corpus callosum, 618090
<i>LONP1</i>	100%	99,80%	100%	100%	CODAS syndrome, 600373
<i>LOXHD1</i>	100%	99,70%	100%	100%	Deafness, autosomal recessive 77, 613079
<i>LPAR6</i>	99,60%	97,80%	100%	100%	Hypotrichosis 8, 278150 Woolly hair, autosomal recessive 1, with or without hypotrichosis, 278150
<i>LPIN1</i>	99,60%	97,30%	100%	100%	Myoglobinuria, acute recurrent, autosomal recessive, 268200
<i>LPIN2</i>	100%	100%	100%	100%	Majeed syndrome, 609628
<i>LPL</i>	100%	100%	100%	100%	Lipoprotein lipase deficiency, 238600 Combined hyperlipidemia, familial, 144250
<i>LRAT</i>	100%	100%	100%	100%	Retinal dystrophy, early-onset severe, 613341 Leber congenital amaurosis 14, 613341 Retinitis pigmentosa, juvenile, 613341
<i>LRBA</i>	99,90%	99,60%	100%	100%	Immunodeficiency, common variable, 8, with autoimmunity, 614700
<i>LRIG2</i>	99,60%	98,80%	100%	100%	Urofacial syndrome 2, 615112
<i>LRIT3</i>	93,90%	91,90%	100%	100%	Night blindness, congenital stationary (complete), 1F, autosomal recessive, 615058
<i>LRMDA</i>	96,80%	95,60%	99,60%	99,60%	Albinism, oculocutaneous, type VII, 615179
<i>LRP1</i>	99,70%	98,90%	100%	100%	?Keratosis pilaris atrophicans, 604093
<i>LRP2</i>	100%	99,90%	100%	100%	Donnai-Barrow syndrome, 222448
<i>LRP4</i>	99,10%	98,80%	100%	100%	?Myasthenic syndrome, congenital, 17, 616304 Sclerosteosis 2, 614305 Cenani-Lenz syndactyly syndrome, 212780
<i>LRP5</i>	98,50%	98,10%	100%	99,70%	van Buchem disease, type 2, 607636 Exudative vitreoretinopathy 4, 601813 Hyperostosis, endosteal, 144750 Osteosclerosis, 144750 Polycystic liver disease 4 with or without kidney cysts, 617875 Osteoporosis-pseudoglioma syndrome, 259770 Osteopetrosis, autosomal dominant 1, 607634
<i>LRPAP1</i>	100%	100%	100%	100%	Myopia 23, autosomal recessive, 615431
<i>LRPPRC</i>	99,90%	99,10%	100%	100%	Leigh syndrome, French-Canadian type, 220111
<i>LRRC56</i>	100%	99,00%	100%	100%	Ciliary dyskinesia, primary, 39, 618254
<i>LRRC6</i>	99,20%	96,30%	100%	100%	Ciliary dyskinesia, primary, 19, 614935

<i>LRSAM1</i>	100%	99,90%	100%	100%	Charcot-Marie-Tooth disease, axonal, type 2P, 614436
<i>LRTOMT</i>	99,30%	94,20%	93,30%	93,10%	Deafness, autosomal recessive 63, 611451
<i>LSS</i>	100%	99,90%	100%	100%	Alopecia-mental retardation syndrome 4, 618840 Cataract 44, 616509 Hypotrichosis 14, 618275
<i>LTBP2</i>	99,90%	99,00%	100%	100%	Glaucoma 3, primary congenital, D, 613086 ?Weill-Marchesani syndrome 3, recessive, 614819 Microspherophakia and/or megalocornea, with ectopia lentis and with or without secondary glaucoma, 251750
<i>LTBP3</i>	99,60%	98,10%	100%	100%	Dental anomalies and short stature, 601216 Geleophysic dysplasia 3, 617809
<i>LTBP4</i>	99,90%	97,50%	100%	100%	Cutis laxa, autosomal recessive, type IC, 613177
<i>LTC4S</i>	74,20%	68,50%	100%	100%	No OMIM disease ID
<i>LYRM4</i>	68,50%	66,20%	66,30%	66,30%	?Combined oxidative phosphorylation deficiency 19, 615595
<i>LYRM7</i>	95,90%	86,20%	100%	100%	Mitochondrial complex III deficiency, nuclear type 8, 615838
<i>LYST</i>	99,60%	98,30%	100%	100%	Chediak-Higashi syndrome, 214500
<i>LZTFL1</i>	99,90%	99,20%	100%	100%	Bardet-Biedl syndrome 17, 615994
<i>LZTR1</i>	100%	99,90%	100%	100%	Noonan syndrome 2, 605275 Noonan syndrome 10, 616564
<i>MAB21L1</i>	100%	100%	100%	100%	Cerebellar, ocular, craniofacial, and genital syndrome, 618479
<i>MAB21L2</i>	100%	100%	100%	100%	Microphthalmia/coloboma and skeletal dysplasia syndrome, 615877
<i>MAD2L2</i>	100%	99,90%	100%	100%	?Fanconi anemia, complementation group V, 617243
<i>MAG</i>	100%	100%	100%	100%	Spastic paraparesis 75, autosomal recessive, 616680
<i>MAGI2</i>	94,50%	92,40%	94,70%	93,30%	Nephrotic syndrome, type 15, 617609
<i>MAK</i>	98,70%	96,80%	100%	100%	Retinitis pigmentosa 62, 614181
<i>MALT1</i>	91,20%	89,40%	100%	100%	Immunodeficiency 12, 615468
<i>MAN1B1</i>	100%	99,70%	100%	99,90%	Mental retardation, autosomal recessive 15, 614202
<i>MAN2B1</i>	99,80%	97,90%	100%	100%	Mannosidosis, alpha-, types I and II, 248500
<i>MANBA</i>	99,80%	98,40%	100%	100%	Mannosidosis, beta, 248510
<i>MAP3K20</i>	100%	99,50%	100%	100%	Split-foot malformation with mesoaxial polydactyly, 616890 Centronuclear myopathy 6 with fiber-type disproportion, 617760
<i>MAPKBP1</i>	100%	100%	100%	100%	Nephronophthisis 20, 617271
<i>MAPT</i>	100%	99,50%	100%	100%	Pick disease, 172700 Dementia, frontotemporal, with or without parkinsonism, 600274 Supranuclear palsy, progressive, 601104 Supranuclear palsy, progressive atypical, 260540
<i>MARS</i>	99,70%	97,40%	100%	100%	Interstitial lung and liver disease, 615486 Charcot-Marie-Tooth disease, axonal, type 2U, 616280

<i>MARS2</i>	100%	100%	100%	100%	Spastic ataxia 3, autosomal recessive, 611390 ?Combined oxidative phosphorylation deficiency 25, 616430
<i>MARVELD2</i>	99,20%	96,10%	100%	100%	Deafness, autosomal recessive 49, 610153
<i>MASP1</i>	100%	99,90%	100%	100%	3MC syndrome 1, 257920
<i>MAT1A</i>	99,70%	97,70%	100%	100%	Methionine adenosyltransferase deficiency, autosomal recessive, 250850 Hypermethioninemia, persistent, autosomal dominant, due to methionine adenosyltransferase I/III deficiency, 250850
<i>MATN3</i>	84,70%	84,60%	100%	100%	?Spondyloepiphyseal dysplasia, 608728 Epiphyseal dysplasia, multiple, 5, 607078
<i>MBOAT7</i>	100%	99,50%	100%	100%	Mental retardation, autosomal recessive 57, 617188
<i>MBTPS1</i>	99,60%	98,40%	100%	100%	?Spondyloepiphyseal dysplasia, Kondo-Fu type, 618392
<i>MC2R</i>	99,90%	98,30%	100%	100%	Glucocorticoid deficiency, due to ACTH unresponsiveness, 202200
<i>MCCC1</i>	100%	99,80%	100%	100%	3-Methylcrotonyl-CoA carboxylase 1 deficiency, 210200
<i>MCCC2</i>	99,90%	98,40%	100%	100%	3-Methylcrotonyl-CoA carboxylase 2 deficiency, 210210
<i>MCEE</i>	100%	100%	100%	100%	Methylmalonyl-CoA epimerase deficiency, 251120
<i>MCFD2</i>	99,50%	96,90%	100%	100%	Factor V and factor VIII, combined deficiency of, 613625
<i>MCM3AP</i>	99,90%	99,10%	100%	100%	Peripheral neuropathy, autosomal recessive, with or without impaired intellectual development, 618124
<i>MCM4</i>	100%	99,50%	100%	100%	Immunodeficiency 54, 609981
<i>MCM5</i>	100%	99,70%	100%	100%	?Meier-Gorlin syndrome 8, 617564
<i>MCM9</i>	99,90%	99,80%	100%	100%	Ovarian dysgenesis 4, 616185
<i>MCOLN1</i>	99,80%	98,40%	100%	100%	Mucolipidosis IV, 252650
<i>MCPH1</i>	100%	99,40%	100%	100%	Microcephaly 1, primary, autosomal recessive, 251200
<i>MDH2</i>	98,00%	97,90%	100%	100%	Epileptic encephalopathy, early infantile, 51, 617339
<i>MECR</i>	100%	98,90%	100%	100%	Dystonia, childhood-onset, with optic atrophy and basal ganglia abnormalities, 617282
<i>MED17</i>	96,30%	93,50%	100%	100%	Microcephaly, postnatal progressive, with seizures and brain atrophy, 613668
<i>MED23</i>	100%	99,70%	100%	100%	Mental retardation, autosomal recessive 18, 614249
<i>MED25</i>	100%	99,80%	100%	100%	?Charcot-Marie-Tooth disease, type 2B2, 605589 Basel-Vanagait-Smirin-Yosef syndrome, 616449
<i>MEFV</i>	99,90%	98,60%	96,40%	96,40%	Familial Mediterranean fever, AR, 249100 Familial Mediterranean fever, AD, 134610
<i>MEGF10</i>	100%	100%	100%	100%	Myopathy, areflexia, respiratory distress, and dysphagia, early-onset, mild variant, 614399 Myopathy, areflexia, respiratory distress, and dysphagia, early-onset, 614399
<i>MEGF8</i>	99,90%	99,00%	100%	100%	Carpenter syndrome 2, 614976
<i>MEOX1</i>	100%	98,90%	100%	100%	Klippel-Feil syndrome 2, 214300
<i>MERTK</i>	99,50%	98,80%	99,10%	99,10%	Retinitis pigmentosa 38, 613862
<i>MESP2</i>	93,90%	86,90%	97,50%	97,50%	Spondylocostal dysostosis 2, autosomal recessive, 608681

<i>MET</i>	100%	99,50%	100%	100%	Hepatocellular carcinoma, childhood type, somatic, 114550 ?Deafness, autosomal recessive 97, 616705 Renal cell carcinoma, papillary, 1, familial and somatic, 605074
<i>METTL23</i>	100%	100%	100%	100%	Mental retardation, autosomal recessive 44, 615942
<i>MFF</i>	94,30%	89,90%	100%	100%	Encephalopathy due to defective mitochondrial and peroxisomal fission 2, 617086
<i>MFN2</i>	100%	99,90%	100%	100%	Hereditary motor and sensory neuropathy VIA, 601152 Charcot-Marie-Tooth disease, axonal, type 2A2B, 617087 Charcot-Marie-Tooth disease, axonal, type 2A2A, 609260
<i>MFRP</i>	100%	100%	100%	100%	Nanophthalmos 2, 609549 Microphthalmia, isolated 5, 611040
<i>MFSD2A</i>	99,70%	98,50%	100%	100%	Microcephaly 15, primary, autosomal recessive, 616486
<i>MFSD8</i>	100%	99,70%	100%	100%	Macular dystrophy with central cone involvement, 616170 Ceroid lipofuscinosis, neuronal, 7, 610951
<i>MGAT2</i>	100%	100%	100%	100%	Congenital disorder of glycosylation, type IIa, 212066
<i>MGME1</i>	100%	100%	100%	100%	Mitochondrial DNA depletion syndrome 11, 615084
<i>MGP</i>	98,70%	95,10%	100%	100%	Keutel syndrome, 245150
<i>MICU1</i>	98,90%	95,20%	100%	100%	Myopathy with extrapyramidal signs, 615673
<i>MIPEP</i>	99,20%	96,50%	100%	100%	Combined oxidative phosphorylation deficiency 31, 617228
<i>MITF</i>	100%	99,90%	100%	100%	COMMAD syndrome, 617306 Waardenburg syndrome, type 2A, 193510 Waardenburg syndrome/ocular albinism, digenic, 103470 Tietz albinism-deafness syndrome, 103500
<i>MKKS</i>	83,20%	83,20%	90,70%	90,70%	Bardet-Biedl syndrome 6, 605231 McKusick-Kaufman syndrome, 236700
<i>MKS1</i>	99,80%	97,90%	100%	100%	Bardet-Biedl syndrome 13, 615990 Joubert syndrome 28, 617121 Meckel syndrome 1, 249000
<i>MLC1</i>	100%	99,00%	100%	100%	Megalencephalic leukoencephalopathy with subcortical cysts, 604004
<i>MLH1</i>	100%	99,90%	100%	100%	Mismatch repair cancer syndrome, 276300 Muir-Torre syndrome, 158320 Colorectal cancer, hereditary nonpolyposis, type 2, 609310
<i>MLPH</i>	100%	98,80%	100%	100%	Griselli syndrome, type 3, 609227
<i>MLYCD</i>	96,00%	90,40%	100%	98,90%	Malonyl-CoA decarboxylase deficiency, 248360
<i>MMAA</i>	100%	100%	100%	100%	Methylmalonic aciduria, vitamin B12-responsive, 251100
<i>MMAB</i>	100%	99,60%	100%	100%	Methylmalonic aciduria, vitamin B12-responsive, due to defect in synthesis of adenosylcobalamin, cblB complementation type, 251110
<i>MMACHC</i>	100%	100%	100%	100%	Methylmalonic aciduria and homocystinuria, cblC type, 277400

<i>MMADHC</i>	94,40%	83,50%	89,70%	89,70%	Homocystinuria, cblD type, variant 1, 277410 Methylmalonic aciduria and homocystinuria, cblD type, 277410 Methylmalonic aciduria, cblD type, variant 2, 277410
<i>MME</i>	99,80%	98,70%	98,00%	98,00%	Charcot-Marie-Tooth disease, axonal, type 2T, 617017 ?Spinocerebellar ataxia 43, 617018
<i>MMP13</i>	95,20%	92,20%	92,40%	92,40%	Metaphyseal anadysplasia 1, 602111 Metaphyseal dysplasia, Spahr type, 250400 Spondyloepimetaphyseal dysplasia, Missouri type, 602111
<i>MMP14</i>	100%	98,90%	100%	100%	?Winchester syndrome, 277950
<i>MMP2</i>	100%	100%	100%	100%	Multicentric osteolysis, nodulosis, and arthropathy, 259600
<i>MMP20</i>	100%	100%	100%	100%	Amelogenesis imperfecta, type IIA2, 612529
<i>MMP21</i>	99,90%	98,80%	100%	100%	Heterotaxy, visceral, 7, autosomal, 616749
<i>MMP9</i>	99,10%	96,10%	100%	100%	Metaphyseal anadysplasia 2, 613073
<i>MOCOS</i>	99,80%	97,70%	100%	100%	Xanthinuria, type II, 603592
<i>MOCS1</i>	99,20%	95,40%	100%	100%	Molybdenum cofactor deficiency A, 252150
<i>MOCS2</i>	99,60%	99,50%	100%	100%	Molybdenum cofactor deficiency B, 252160
<i>MOGS</i>	100%	99,90%	100%	100%	Congenital disorder of glycosylation, type IIb, 606056
<i>MPC1</i>	100%	99,60%	100%	100%	Mitochondrial pyruvate carrier deficiency, 614741
<i>MPDU1</i>	100%	100%	100%	100%	Congenital disorder of glycosylation, type If, 609180
<i>MPDZ</i>	99,80%	98,80%	100%	100%	Hydrocephalus, congenital, 2, with or without brain or eye anomalies, 615219
<i>MPI</i>	100%	99,90%	100%	100%	Congenital disorder of glycosylation, type Ib, 602579
<i>MPL</i>	100%	99,50%	100%	100%	Thrombocythemia 2, 601977 Thrombocytopenia, congenital amegakaryocytic, 604498 Myelofibrosis with myeloid metaplasia, somatic, 254450
<i>MPLKIP</i>	100%	99,40%	100%	100%	Trichothiodystrophy 4, nonphotosensitive, 234050
<i>MPO</i>	100%	99,90%	100%	100%	Myeloperoxidase deficiency, 254600
<i>MPV17</i>	100%	97,20%	100%	100%	Charcot-Marie-Tooth disease, axonal, type 2EE, 618400 Mitochondrial DNA depletion syndrome 6 (hepatocerebral type), 256810
<i>MPZ</i>	100%	100%	100%	100%	Charcot-Marie-Tooth disease, type 2J, 607736 Charcot-Marie-Tooth disease, type 1B, 118200 Dejerine-Sottas disease, 145900 Hypomyelinating neuropathy, congenital, 2, 618184 Charcot-Marie-Tooth disease, dominant intermediate D, 607791 Roussy-Levy syndrome, 180800 Charcot-Marie-Tooth disease, type 2I, 607677
<i>MPZL2</i>	100%	99,90%	100%	100%	Deafness, autosomal recessive 111, 618145
<i>MS4A1</i>	99,80%	98,80%	100%	100%	Immunodeficiency, common variable, 5, 613495

<i>MSH2</i>	99,80%	97,70%	100%	100%	Muir-Torre syndrome, 158320 Mismatch repair cancer syndrome, 276300 Colorectal cancer, hereditary nonpolyposis, type 1, 120435
<i>MSH3</i>	100%	99,20%	100%	100%	Familial adenomatous polyposis 4, 617100 Endometrial carcinoma, somatic, 608089
<i>MSH6</i>	100%	99,80%	100%	100%	Mismatch repair cancer syndrome, 276300 Colorectal cancer, hereditary nonpolyposis, type 5, 614350
<i>MSMO1</i>	96,30%	88,90%	100%	100%	Microcephaly, congenital cataract, and psoriasiform dermatitis, 616834
<i>MSRB3</i>	100%	99,40%	100%	100%	Deafness, autosomal recessive 74, 613718
<i>MSTO1</i>	99,60%	96,70%	100%	100%	Myopathy, mitochondrial, and ataxia, 617675
<i>MTFMT</i>	100%	99,80%	100%	100%	Combined oxidative phosphorylation deficiency 15, 614947 Mitochondrial complex I deficiency, nuclear type 27, 618248
<i>MTHFD1</i>	100%	99,50%	100%	100%	Combined immunodeficiency and megaloblastic anemia with or without hyperhomocysteinemia, 617780
<i>MTHFR</i>	97,30%	96,00%	100%	100%	Homocystinuria due to MTHFR deficiency, 236250
<i>MTHFS</i>	75,00%	74,90%	100%	100%	Neurodevelopmental disorder with microcephaly, epilepsy, and hypomyelination, 618367
<i>MTMR2</i>	100%	99,00%	100%	100%	Charcot-Marie-Tooth disease, type 4B1, 601382
<i>MTO1</i>	91,30%	90,40%	91,60%	91,40%	Combined oxidative phosphorylation deficiency 10, 614702
<i>MTPAP</i>	99,50%	96,10%	100%	100%	?Spastic ataxia 4, autosomal recessive, 613672
<i>MTR</i>	100%	100%	100%	100%	Homocystinuria-megaloblastic anemia, cblG complementation type, 250940
<i>MTRR</i>	100%	99,60%	100%	100%	Homocystinuria-megaloblastic anemia, cbl E type, 236270
<i>MTTP</i>	100%	99,60%	100%	100%	Abetalipoproteinemia, 200100
<i>MUSK</i>	100%	99,90%	100%	100%	Fetal aknesia deformation sequence 1, 208150 Myasthenic syndrome, congenital, 9, associated with acetylcholine receptor deficiency, 616325
<i>MUT</i>	99,80%	98,30%	100%	100%	Methylmalonic aciduria, mut(0) type, 251000
<i>MUTYH</i>	100%	100%	100%	100%	Gastric cancer, somatic, 613659 Adenomas, multiple colorectal, 608456
<i>MVK</i>	90,90%	90,50%	90,50%	90,50%	Hyper-IgD syndrome, 260920 Porokeratosis 3, multiple types, 175900 Mevalonic aciduria, 610377
<i>MYBPC1</i>	99,90%	99,50%	100%	100%	Arthrogryposis, distal, type 1B, 614335 Myopathy, congenital, with tremor, 618524 Lethal congenital contracture syndrome 4, 614915
<i>MYD88</i>	100%	100%	100%	100%	Macroglobulinemia, Waldenstrom, somatic, 153600 Pyogenic bacterial infections, recurrent, due to MYD88 deficiency, 612260
<i>MYF5</i>	100%	100%	100%	100%	Ophthalmoplegia, external, with rib and vertebral anomalies, 618155
<i>MYH2</i>	99,90%	99,40%	100%	100%	Proximal myopathy and ophthalmoplegia, 605637

<i>MYH3</i>	99,90%	99,00%	100%	100%	Contractures, pterygia, and spondylocarpotarsal fusion syndrome 1B, 618469 Arthrogryposis, distal, type 2B3 (Sheldon-Hall), 618436 Arthrogryposis, distal, type 2A (Freeman-Sheldon), 193700 Contractures, pterygia, and spondylocarpotarsal fusion syndrome 1A, 178110
<i>MYL1</i>	100%	99,70%	100%	100%	Myopathy, congenital, with fast-twitch (type II) fiber atrophy, 618414
<i>MYL3</i>	100%	100%	100%	100%	Cardiomyopathy, hypertrophic, 8, 608751
<i>MYLK</i>	100%	99,90%	100%	100%	Aortic aneurysm, familial thoracic 7, 613780 Megacystis-microcolon-intestinal hypoperistalsis syndrome, 249210
<i>MYMK</i>	100%	100%	100%	100%	Carey-Fineman-Ziter syndrome, 254940
<i>MYO15A</i>	98,80%	97,00%	100%	99,90%	Deafness, autosomal recessive 3, 600316
<i>MYO18B</i>	100%	99,10%	100%	100%	Klippel-Feil syndrome 4, autosomal recessive, with myopathy and facial dysmorphism, 616549
<i>MYO1E</i>	99,90%	99,50%	100%	100%	Glomerulosclerosis, focal segmental, 6, 614131
<i>MYO3A</i>	99,60%	96,60%	100%	100%	Deafness, autosomal recessive 30, 607101
<i>MYO5A</i>	99,80%	98,90%	100%	100%	Griselli syndrome, type 1, 214450
<i>MYO5B</i>	99,10%	96,20%	100%	100%	Microvillus inclusion disease, 251850
<i>MYO6</i>	99,50%	96,60%	100%	100%	Deafness, autosomal recessive 37, 607821 Deafness, autosomal dominant 22, 606346 Deafness, autosomal dominant 22, with hypertrophic cardiomyopathy, 606346
<i>MYO7A</i>	99,30%	97,40%	100%	100%	Deafness, autosomal recessive 2, 600060 Deafness, autosomal dominant 11, 601317 Usher syndrome, type 1B, 276900
<i>MYO9A</i>	99,90%	99,10%	100%	100%	Myasthenic syndrome, congenital, 24, presynaptic, 618198
<i>MYPN</i>	100%	99,70%	100%	100%	Cardiomyopathy, dilated, 1KK, 615248 Cardiomyopathy, familial restrictive, 4, 615248 Nemaline myopathy 11, autosomal recessive, 617336 Cardiomyopathy, hypertrophic, 22, 615248
<i>MYSM1</i>	100%	99,10%	100%	100%	Bone marrow failure syndrome 4, 618116
<i>NADK2</i>	99,90%	97,20%	99,00%	96,30%	2,4-dienoyl-CoA reductase deficiency, 616034
<i>NAGA</i>	100%	100%	100%	100%	Kanzaki disease, 609242 Schindler disease, type I, 609241 Schindler disease, type III, 609241
<i>NAGLU</i>	92,90%	89,90%	99,90%	99,20%	Mucopolysaccharidosis type IIIB (Sanfilippo B), 252920 ?Charcot-Marie-Tooth disease, axonal, type 2V, 616491
<i>NAGS</i>	99,70%	95,00%	100%	100%	N-acetylglutamate synthase deficiency, 237310
<i>NALCN</i>	100%	99,50%	99,80%	99,80%	Hypotonia, infantile, with psychomotor retardation and characteristic facies 1, 615419 Congenital contractures of the limbs and face, hypotonia, and developmental delay, 616266
<i>NANS</i>	100%	99,90%	100%	100%	Spondyloepimetaphyseal dysplasia, Camera-Genevieve type, 610442

<i>NARS2</i>	98,30%	97,40%	100%	100%	?Deafness, autosomal recessive 94, 618434 Combined oxidative phosphorylation deficiency 24, 616239
<i>NAT8L</i>	99,50%	94,20%	95,60%	90,80%	?N-acetylaspartate deficiency, 614063
<i>NAXD</i>	100%	100%	100%	100%	Encephalopathy, progressive, early-onset, with brain edema and/or leukoencephalopathy, 2, 618321
<i>NAXE</i>	100%	99,80%	100%	100%	Encephalopathy, progressive, early-onset, with brain edema and/or leukoencephalopathy, 617186
<i>NBAS</i>	100%	99,60%	100%	100%	Infantile liver failure syndrome 2, 616483 Short stature, optic nerve atrophy, and Pelger-Huet anomaly, 614800
<i>NBEAL2</i>	99,40%	99,30%	100%	100%	Gray platelet syndrome, 139090
<i>NBN</i>	99,90%	98,60%	100%	100%	Aplastic anemia, 609135 Nijmegen breakage syndrome, 251260 Leukemia, acute lymphoblastic, 613065
<i>NCAPD2</i>	100%	99,70%	100%	100%	?Microcephaly 21, primary, autosomal recessive, 617983
<i>NCAPD3</i>	99,90%	98,90%	100%	100%	Microcephaly 22, primary, autosomal recessive, 617984
<i>NCAPG2</i>	99,90%	99,20%	100%	100%	Khan-Khan-Katsanis syndrome, 618460
<i>NCAPH</i>	100%	100%	100%	100%	?Microcephaly 23, primary, autosomal recessive, 617985
<i>NCF1</i>	26,00%	25,80%	100%	99,80%	Chronic granulomatous disease due to deficiency of NCF-1, 233700
<i>NCF2</i>	99,90%	98,30%	100%	100%	Chronic granulomatous disease due to deficiency of NCF-2, 233710
<i>NCF4</i>	100%	100%	100%	100%	?Granulomatous disease, chronic, autosomal recessive, cytochrome b-positive, type III, 613960
<i>NDE1</i>	100%	100%	100%	100%	Lissencephaly 4 (with microcephaly), 614019 ?Microhydranencephaly, 605013
<i>NDRG1</i>	100%	100%	100%	100%	Charcot-Marie-Tooth disease, type 4D, 601455
<i>NDST1</i>	100%	100%	100%	100%	Mental retardation, autosomal recessive 46, 616116
<i>NDUFA10</i>	99,80%	98,60%	100%	100%	Mitochondrial complex I deficiency, nuclear type 22, 618243
<i>NDUFA11</i>	100%	100%	100%	99,80%	Mitochondrial complex I deficiency, nuclear type 14, 618236
<i>NDUFA12</i>	100%	100%	100%	100%	?Mitochondrial complex I deficiency, nuclear type 23, 618244
<i>NDUFA13</i>	92,20%	89,20%	100%	100%	?Mitochondrial complex I deficiency, nuclear type 28, 618249
<i>NDUFA2</i>	100%	100%	100%	100%	?Mitochondrial complex I deficiency, nuclear type 13, 618235
<i>NDUFA6</i>	100%	100%	100%	100%	Mitochondrial complex I deficiency, nuclear type 33, 618253
<i>NDUFA9</i>	99,90%	96,50%	100%	100%	Mitochondrial complex I deficiency, nuclear type 26, 618247
<i>NDUFAF1</i>	100%	100%	100%	100%	Mitochondrial complex I deficiency, nuclear type 11, 618234
<i>NDUFAF2</i>	95,00%	83,40%	100%	99,90%	Mitochondrial complex I deficiency, nuclear type 10, 618233
<i>NDUFAF3</i>	100%	99,90%	100%	100%	Mitochondrial complex I deficiency, nuclear type 18, 618240
<i>NDUFAF4</i>	99,80%	98,20%	100%	100%	Mitochondrial complex I deficiency, nuclear type 15, 618237
<i>NDUFAF5</i>	100%	99,50%	100%	100%	Mitochondrial complex I deficiency, nuclear type 16, 618238
<i>NDUFAF6</i>	100%	96,80%	100%	100%	Mitochondrial complex I deficiency, nuclear type 17, 618239
<i>NDUFB11</i>	99,50%	96,50%	100%	99,50%	Linear skin defects with multiple congenital anomalies 3, 300952 ?Mitochondrial complex I deficiency, nuclear type 30, 301021

<i>NDUFB3</i>	95,80%	80,50%	100%	100%	Mitochondrial complex I deficiency, nuclear type 25, 618246
<i>NDUFB8</i>	100%	99,90%	100%	100%	Mitochondrial complex I deficiency, nuclear type 32, 618252
<i>NDUFB9</i>	98,40%	95,50%	100%	100%	?Mitochondrial complex I deficiency, nuclear type 24, 618245
<i>NDUFS1</i>	100%	99,50%	100%	100%	Mitochondrial complex I deficiency, nuclear type 5, 618226
<i>NDUFS2</i>	100%	100%	100%	100%	Mitochondrial complex I deficiency, nuclear type 6, 618228
<i>NDUFS3</i>	90,70%	90,60%	91,90%	90,70%	Mitochondrial complex I deficiency, nuclear type 8, 618230
<i>NDUFS4</i>	100%	99,40%	100%	100%	Mitochondrial complex I deficiency, nuclear type 1, 252010
<i>NDUFS6</i>	100%	99,90%	100%	100%	Mitochondrial complex I deficiency, nuclear type 9, 618232
<i>NDUFS7</i>	100%	99,20%	100%	100%	Mitochondrial complex I deficiency, nuclear type 3, 618224
<i>NDUFS8</i>	100%	99,40%	100%	100%	Mitochondrial complex I deficiency, nuclear type 2, 618222
<i>NDUFV1</i>	98,00%	96,10%	100%	100%	Mitochondrial complex I deficiency, nuclear type 4, 618225
<i>NDUFV2</i>	86,90%	76,90%	100%	100%	Mitochondrial complex I deficiency, nuclear type 7, 618229
<i>NEB</i>	83,00%	82,60%	99,90%	99,90%	Nemaline myopathy 2, autosomal recessive, 256030
<i>NECAP1</i>	100%	100%	100%	100%	?Epileptic encephalopathy, early infantile, 21, 615833
<i>NECTIN1</i>	100%	99,90%	100%	100%	Orofacial cleft 7, 225060 Cleft lip/palate-ectodermal dysplasia syndrome, 225060
<i>NECTIN4</i>	100%	100%	100%	100%	Ectodermal dysplasia-syndactyly syndrome 1, 613573
<i>NEK1</i>	99,80%	98,00%	100%	100%	Short-rib thoracic dysplasia 6 with or without polydactyly, 263520
<i>NEK2</i>	99,70%	95,50%	96,10%	96,10%	?Retinitis pigmentosa 67, 615565
<i>NEK8</i>	100%	99,90%	100%	100%	?Nephronophthisis 9, 613824 Renal-hepatic-pancreatic dysplasia 2, 615415
<i>NEK9</i>	100%	99,60%	100%	100%	Lethal congenital contracture syndrome 10, 617022 Nevus comedonicus, somatic, 617025 ?Arthrogryposis, Perthes disease, and upward gaze palsy, 614262
<i>NEU1</i>	99,70%	97,70%	100%	100%	Sialidosis, type II, 256550 Sialidosis, type I, 256550
<i>NEUROG3</i>	100%	100%	100%	100%	Diarrhea 4, malabsorptive, congenital, 610370
<i>NFASC</i>	100%	99,90%	100%	100%	Neurodevelopmental disorder with central and peripheral motor dysfunction, 618356
<i>NFU1</i>	98,80%	90,80%	100%	100%	Multiple mitochondrial dysfunctions syndrome 1, 605711
<i>NGF</i>	100%	100%	100%	100%	Neuropathy, hereditary sensory and autonomic, type V, 608654
<i>NGLY1</i>	100%	99,80%	100%	100%	Congenital disorder of deglycosylation, 615273
<i>NHEJ1</i>	100%	96,20%	100%	100%	Severe combined immunodeficiency with microcephaly, growth retardation, and sensitivity to ionizing radiation, 611291
<i>NHLRC1</i>	100%	98,70%	100%	100%	Epilepsy, progressive myoclonic 2B (Lafora), 254780
<i>NHLRC2</i>	99,60%	98,20%	100%	100%	FINCA syndrome, 618278
<i>NHP2</i>	100%	100%	100%	100%	Dyskeratosis congenita, autosomal recessive 2, 613987
<i>NIN</i>	100%	99,50%	100%	100%	?Seckel syndrome 7, 614851

<i>NIPAL4</i>	100%	99,10%	100%	100%	Ichthyosis, congenital, autosomal recessive 6, 612281
<i>NKX2-6</i>	100%	99,50%	100%	100%	Persistent truncus arteriosus, 217095 Conotruncal heart malformations, 217095
<i>NKX3-2</i>	99,80%	97,00%	100%	100%	Spondylo-megaepiphyseal-metaphyseal dysplasia, 613330
<i>NKX6-2</i>	89,00%	81,80%	100%	100%	Spastic ataxia 8, autosomal recessive, with hypomyelinating leukodystrophy, 617560
<i>NLRP1</i>	99,60%	98,00%	100%	100%	Palmoplantar carcinoma, multiple self-healing, 615225 Autoinflammation with arthritis and dyskeratosis, 617388 ?Respiratory papillomatosis, juvenile recurrent, congenital, 618803
<i>NLRP7</i>	100%	99,60%	100%	100%	Hydatidiform mole, recurrent, 1, 231090
<i>NME8</i>	99,20%	95,30%	100%	100%	Ciliary dyskinesia, primary, 6, 610852
<i>NMNAT1</i>	100%	99,20%	98,30%	95,60%	Leber congenital amaurosis 9, 608553
<i>NNT</i>	100%	99,40%	100%	100%	Glucocorticoid deficiency 4, with or without mineralocorticoid deficiency, 614736
<i>NOP10</i>	100%	99,80%	100%	100%	Dyskeratosis congenita, autosomal recessive 1, 224230
<i>NPC1</i>	99,60%	98,70%	100%	100%	Niemann-Pick disease, type D, 257220 Niemann-Pick disease, type C1, 257220
<i>NPC2</i>	100%	99,60%	100%	100%	Niemann-pick disease, type C2, 607625
<i>NPHP1</i>	100%	99,00%	100%	100%	Nephronophthisis 1, juvenile, 256100 Senior-Loken syndrome-1, 266900 Joubert syndrome 4, 609583
<i>NPHP3</i>	99,70%	98,40%	100%	100%	Meckel syndrome 7, 267010 Renal-hepatic-pancreatic dysplasia 1, 208540 Nephronophthisis 3, 604387
<i>NPHP4</i>	100%	99,80%	100%	100%	Nephronophthisis 4, 606966 Senior-Loken syndrome 4, 606996
<i>NPHS1</i>	99,80%	99,10%	100%	100%	Nephrotic syndrome, type 1, 256300
<i>NPHS2</i>	100%	99,50%	100%	100%	Nephrotic syndrome, type 2, 600995
<i>NPPA</i>	100%	100%	100%	100%	Atrial standstill 2, 615745 Atrial fibrillation, familial, 6, 612201
<i>NPR2</i>	100%	99,60%	100%	100%	Short stature with nonspecific skeletal abnormalities, 616255 Epiphyseal chondrodysplasia, Miura type, 615923 Acromesomelic dysplasia, Maroteaux type, 602875
<i>NR0B2</i>	100%	99,30%	100%	100%	Obesity, mild, early-onset, 601665
<i>NR1H4</i>	99,80%	98,50%	100%	100%	Cholestasis, progressive familial intrahepatic, 5, 617049
<i>NR2E3</i>	100%	99,60%	100%	100%	Enhanced S-cone syndrome, 268100 Retinitis pigmentosa 37, 611131
<i>NRXN1</i>	97,40%	96,90%	100%	99,80%	Pitt-Hopkins-like syndrome 2, 614325
<i>NSMCE2</i>	99,70%	98,20%	100%	100%	Seckel syndrome 10, 617253
<i>NSMCE3</i>	100%	100%	100%	100%	Lung disease, immunodeficiency, and chromosome breakage syndrome, 617241

<i>NSUN2</i>	96,00%	95,10%	100%	100%	Mental retardation, autosomal recessive 5, 611091
<i>NT5C2</i>	98,00%	96,50%	100%	100%	Spastic paraplegia 45, autosomal recessive, 613162
<i>NT5C3A</i>	97,90%	88,30%	100%	100%	Anemia, hemolytic, due to UMPH1 deficiency, 266120
<i>NT5E</i>	100%	99,90%	100%	100%	Calcification of joints and arteries, 211800
<i>NTHL1</i>	100%	99,80%	100%	100%	Familial adenomatous polyposis 3, 616415
<i>NTRK1</i>	99,80%	98,20%	100%	100%	Insensitivity to pain, congenital, with anhidrosis, 256800
<i>NUBPL</i>	99,70%	98,40%	100%	100%	Mitochondrial complex I deficiency, nuclear type 21, 618242
<i>NUP107</i>	99,80%	98,50%	100%	100%	Galloway-Mowat syndrome 7, 618348 ?Ovarian dysgenesis 6, 618078 Nephrotic syndrome, type 11, 616730
<i>NUP133</i>	99,70%	98,30%	100%	100%	Nephrotic syndrome, type 18, 618177 ?Galloway-Mowat syndrome 8, 618349
<i>NUP160</i>	100%	99,90%	100%	100%	?Nephrotic syndrome, type 19, 618178
<i>NUP205</i>	99,90%	99,40%	100%	100%	?Nephrotic syndrome, type 13, 616893
<i>NUP214</i>	100%	99,70%	100%	100%	Leukemia, acute myeloid, somatic, 601626 Leukemia, T-cell acute lymphoblastic, somatic, 613065
<i>NUP37</i>	100%	100%	100%	100%	?Microcephaly 24, primary, autosomal recessive, 618179
<i>NUP62</i>	100%	100%	100%	100%	Striatonigral degeneration, infantile, 271930
<i>NUP85</i>	100%	100%	100%	100%	Nephrotic syndrome, type 17, 618176
<i>NUP88</i>	100%	100%	100%	100%	Fetal akinesia deformation sequence 4, 618393
<i>NUP93</i>	98,00%	94,20%	95,50%	95,50%	Nephrotic syndrome, type 12, 616892
<i>NUS1</i>	60,00%	44,50%	100%	100%	Mental retardation, autosomal dominant 55, with seizures, 617831 ?Congenital disorder of glycosylation, type 1aa, 617082
<i>NXN</i>	100%	100%	99,90%	99,50%	Robinow syndrome, autosomal recessive 2, 618529
<i>OAT</i>	85,20%	76,30%	100%	100%	Gyrate atrophy of choroid and retina with or without ornithinemia, 258870
<i>OBSL1</i>	100%	99,30%	100%	100%	3-M syndrome 2, 612921
<i>OCA2</i>	99,90%	98,70%	100%	100%	Albinism, oculocutaneous, type II, 203200 Albinism, brown oculocutaneous, 203200
<i>OCLN</i>	100%	100%	100%	100%	Pseudo-TORCH syndrome 1, 251290
<i>OGDH</i>	100%	99,90%	100%	100%	No OMIM disease ID
<i>OPA1</i>	99,70%	97,60%	100%	100%	Behr syndrome, 210000 Optic atrophy 1, 165500 Optic atrophy plus syndrome, 125250 ?Mitochondrial DNA depletion syndrome 14 (encephalocardiomyopathic type), 616896
<i>OPA3</i>	100%	99,00%	100%	100%	Optic atrophy 3 with cataract, 165300 3-methylglutaconic aciduria, type III, 258501
<i>OPLAH</i>	100%	99,80%	100%	100%	5-oxoprolinase deficiency, 260005

<i>ORAI1</i>	95,80%	92,80%	97,20%	92,40%	Myopathy, tubular aggregate, 2, 615883 Immunodeficiency 9, 612782
<i>ORC1</i>	100%	99,40%	100%	100%	Meier-Gorlin syndrome 1, 224690
<i>ORC4</i>	98,70%	93,60%	100%	100%	Meier-Gorlin syndrome 2, 613800
<i>ORC6</i>	100%	99,90%	100%	100%	Meier-Gorlin syndrome 3, 613803
<i>OSGE1P</i>	100%	99,40%	100%	100%	Galloway-Mowat syndrome 3, 617729
<i>OSTM1</i>	98,60%	94,00%	100%	100%	Osteopetrosis, autosomal recessive 5, 259720
<i>OTOA</i>	99,40%	97,60%	100%	99,90%	Deafness, autosomal recessive 22, 607039
<i>OTOF</i>	100%	99,90%	100%	100%	Auditory neuropathy, autosomal recessive, 1, 601071 Deafness, autosomal recessive 9, 601071
<i>OTOG</i>	99,40%	98,60%	100%	99,90%	Deafness, autosomal recessive 18B, 614945
<i>OTOG1L</i>	99,50%	97,40%	100%	100%	Deafness, autosomal recessive 84B, 614944
<i>OTUD6B</i>	99,90%	98,80%	100%	100%	Intellectual developmental disorder with dysmorphic facies, seizures, and distal limb anomalies, 617452
<i>OTULIN</i>	92,60%	86,50%	99,20%	95,00%	Autoinflammation, panniculitis, and dermatosis syndrome, 617099
<i>OXCT1</i>	99,80%	98,10%	100%	100%	Succinyl CoA:3-oxoacid CoA transferase deficiency, 245050
<i>P2RY12</i>	100%	100%	100%	100%	Bleeding disorder, platelet-type, 8, 609821
<i>P3H1</i>	100%	100%	100%	100%	Osteogenesis imperfecta, type VIII, 610915
<i>P3H2</i>	99,80%	98,00%	100%	100%	Myopia, high, with cataract and vitreoretinal degeneration, 614292
<i>P4HTM</i>	99,00%	97,40%	100%	99,40%	Hypotonia, hypoventilation, impaired intellectual development, dysautonomia, epilepsy, and eye abnormalities, 618493
<i>PAH</i>	100%	100%	100%	100%	Phenylketonuria, 261600
<i>PAM16</i>	65,30%	65,20%	82,90%	82,90%	Spondylometaphyseal dysplasia, Megarbane-Dagher-Melike type, 613320
<i>PANK2</i>	100%	99,30%	100%	100%	HARP syndrome, 607236 Neurodegeneration with brain iron accumulation 1, 234200
<i>PAPSS2</i>	100%	99,50%	100%	100%	Brachyolmia 4 with mild epiphyseal and metaphyseal changes, 612847
<i>PARK7</i>	100%	100%	100%	100%	Parkinson disease 7, autosomal recessive early-onset, 606324
<i>PARN</i>	100%	99,90%	100%	100%	Pulmonary fibrosis and/or bone marrow failure, telomere-related, 4, 616371 Dyskeratosis congenita, autosomal recessive 6, 616353
<i>PARS2</i>	100%	100%	100%	100%	Epileptic encephalopathy, early infantile, 75, 618437
<i>PATL2</i>	100%	99,00%	100%	100%	Oocyte maturation defect 4, 617743
<i>PAX1</i>	92,40%	87,90%	100%	99,60%	Otofaciocervical syndrome 2, 615560
<i>PAX3</i>	100%	99,90%	100%	100%	Craniofacial-deafness-hand syndrome, 122880 Rhabdomyosarcoma 2, alveolar, 268220 Waardenburg syndrome, type 1, 193500 Waardenburg syndrome, type 3, 148820
<i>PAX7</i>	100%	100%	100%	100%	Myopathy, congenital, progressive, with scoliosis, 618578 Rhabdomyosarcoma 2, alveolar, 268220

<i>PC</i>	99,80%	97,30%	100%	100%	Pyruvate carboxylase deficiency, 266150
<i>PCBD1</i>	100%	99,60%	100%	99,70%	Hyperphenylalaninemia, BH4-deficient, D, 264070
<i>PCCA</i>	99,50%	96,70%	100%	100%	Propionicacidemia, 606054
<i>PCCB</i>	97,90%	96,00%	98,70%	96,20%	Propionicacidemia, 606054
<i>PCDH12</i>	100%	100%	100%	100%	Diencephalic-mesencephalic junction dysplasia syndrome 1, 251280
<i>PCDH15</i>	98,60%	97,50%	100%	100%	Usher syndrome, type 1D/F digenic, 601067 Usher syndrome, type 1F, 602083 Deafness, autosomal recessive 23, 609533
<i>PCK1</i>	100%	100%	100%	100%	?Phosphoenolpyruvate carboxykinase deficiency, cytosolic, 261680
<i>PCK2</i>	100%	100%	100%	100%	No OMIM disease ID
<i>PCLO</i>	99,70%	98,70%	100%	100%	?Pontocerebellar hypoplasia, type 3, 608027
<i>PCNA</i>	100%	98,40%	100%	100%	?Ataxia-telangiectasia-like disorder 2, 615919
<i>PCNT</i>	99,60%	97,10%	100%	100%	Microcephalic osteodysplastic primordial dwarfism, type II, 210720
<i>PCSK1</i>	100%	99,50%	100%	100%	Obesity with impaired prohormone processing, 600955
<i>PCYT1A</i>	98,90%	95,50%	100%	100%	Spondylometaphyseal dysplasia with cone-rod dystrophy, 608940
<i>PDE10A</i>	81,20%	80,50%	100%	100%	Dyskinesia, limb and orofacial, infantile-onset, 616921 Striatal degeneration, autosomal dominant, 616922
<i>PDE6A</i>	100%	99,60%	100%	100%	Retinitis pigmentosa 43, 613810
<i>PDE6B</i>	100%	99,90%	100%	100%	Night blindness, congenital stationary, autosomal dominant 2, 163500 Retinitis pigmentosa-40, 613801
<i>PDE6C</i>	99,90%	97,80%	100%	100%	Cone dystrophy 4, 613093
<i>PDE6D</i>	100%	100%	100%	100%	?Joubert syndrome 22, 615665
<i>PDE6G</i>	100%	99,70%	100%	100%	Retinitis pigmentosa 57, 613582
<i>PDE6H</i>	100%	97,90%	100%	100%	Retinal cone dystrophy 3, 610024 Achromatopsia 6, 610024
<i>PDHB</i>	99,10%	97,50%	100%	100%	Pyruvate dehydrogenase E1-beta deficiency, 614111
<i>PDHX</i>	99,90%	99,40%	100%	100%	Lacticacidemia due to PDX1 deficiency, 245349
<i>PDP1</i>	100%	100%	100%	100%	Pyruvate dehydrogenase phosphatase deficiency, 608782
<i>PDSS1</i>	94,70%	87,60%	97,30%	96,60%	Coenzyme Q10 deficiency, primary, 2, 614651
<i>PDSS2</i>	99,80%	97,10%	100%	100%	Coenzyme Q10 deficiency, primary, 3, 614652
<i>PDX1</i>	93,00%	82,40%	100%	100%	Pancreatic agenesis 1, 260370 MODY, type IV, 606392
<i>PDXK</i>	79,30%	76,60%	99,40%	96,70%	Neuropathy, hereditary motor and sensory, type VIC, with optic atrophy, 618511
<i>PDZD7</i>	98,80%	96,30%	100%	100%	Usher syndrome, type IIC, GPR98/PDZD7 digenic, 605472 Deafness, autosomal recessive 57, 618003
<i>PEPD</i>	100%	98,80%	100%	100%	Prolidase deficiency, 170100
<i>PET100</i>	100%	99,60%	100%	100%	Mitochondrial complex IV deficiency, 220110

<i>PEX1</i>	99,90%	99,40%	100%	100%	Heimler syndrome 1, 234580 Peroxisome biogenesis disorder 1B (NALD/IRD), 601539 Peroxisome biogenesis disorder 1A (Zellweger), 214100
<i>PEX10</i>	96,80%	89,70%	100%	99,90%	Peroxisome biogenesis disorder 6B, 614871 Peroxisome biogenesis disorder 6A (Zellweger), 614870
<i>PEX11B</i>	100%	99,60%	100%	100%	?Peroxisome biogenesis disorder 14B, 614920
<i>PEX12</i>	100%	100%	100%	100%	Peroxisome biogenesis disorder 3A (Zellweger), 614859 Peroxisome biogenesis disorder 3B, 266510
<i>PEX13</i>	100%	100%	100%	100%	Peroxisome biogenesis disorder 11A (Zellweger), 614883 Peroxisome biogenesis disorder 11B, 614885
<i>PEX14</i>	96,70%	90,80%	100%	100%	Peroxisome biogenesis disorder 13A (Zellweger), 614887
<i>PEX16</i>	97,90%	94,20%	100%	100%	Peroxisome biogenesis disorder 8A (Zellweger), 614876 Peroxisome biogenesis disorder 8B, 614877
<i>PEX19</i>	99,90%	98,50%	100%	100%	Peroxisome biogenesis disorder 12A (Zellweger), 614886
<i>PEX2</i>	100%	100%	100%	100%	Peroxisome biogenesis disorder 5A (Zellweger), 614866 Peroxisome biogenesis disorder 5B, 614867
<i>PEX26</i>	100%	100%	100%	100%	Peroxisome biogenesis disorder 7A (Zellweger), 614872 Peroxisome biogenesis disorder 7B, 614873
<i>PEX3</i>	100%	99,30%	100%	100%	Peroxisome biogenesis disorder 10A (Zellweger), 614882 ?Peroxisome biogenesis disorder 10B, 617370
<i>PEX5</i>	99,90%	99,00%	100%	100%	Peroxisome biogenesis disorder 2B, 202370 Rhizomelic chondrodysplasia punctata, type 5, 616716 Peroxisome biogenesis disorder 2A (Zellweger), 214110
<i>PEX6</i>	94,50%	86,70%	100%	100%	Peroxisome biogenesis disorder 4B, 614863 Heimler syndrome 2, 616617 Peroxisome biogenesis disorder 4A (Zellweger), 614862
<i>PEX7</i>	87,80%	80,70%	91,30%	91,30%	Peroxisome biogenesis disorder 9B, 614879 Rhizomelic chondrodysplasia punctata, type 1, 215100
<i>PFKM</i>	100%	99,50%	100%	100%	Glycogen storage disease VII, 232800
<i>PGAM2</i>	100%	100%	100%	100%	Glycogen storage disease X, 261670
<i>PGAP1</i>	99,00%	94,40%	100%	100%	Mental retardation, autosomal recessive 42, 615802
<i>PGAP2</i>	100%	99,90%	100%	100%	Hyperphosphatasia with mental retardation syndrome 3, 614207
<i>PGAP3</i>	63,50%	59,60%	100%	100%	Hyperphosphatasia with mental retardation syndrome 4, 615716
<i>PGM1</i>	100%	100%	100%	100%	Congenital disorder of glycosylation, type I $\alpha$ , 614921
<i>PGM3</i>	100%	99,80%	100%	100%	Immunodeficiency 23, 615816
<i>PHGDH</i>	99,90%	98,80%	100%	100%	Neu-Laxova syndrome 1, 256520 Phosphoglycerate dehydrogenase deficiency, 601815
<i>PHKB</i>	99,90%	99,20%	100%	100%	Phosphorylase kinase deficiency of liver and muscle, autosomal recessive, 261750

<i>PHKG2</i>	100%	99,90%	100%	100%	Glycogen storage disease IXc, 613027 Cirrhosis due to liver phosphorylase kinase deficiency, 0
<i>PHOX2A</i>	91,60%	72,70%	100%	99,80%	Fibrosis of extraocular muscles, congenital, 2, 602078
<i>PHYH</i>	100%	99,60%	100%	100%	Refsum disease, 266500
<i>PI4KA</i>	92,60%	88,80%	99,90%	99,90%	Polymicrogyria, perisylvian, with cerebellar hypoplasia and arthrogryposis, 616531
<i>TAC3</i>	100%	99,60%	100%	100%	Hypogonadotropic hypogonadism 10 with or without anosmia, 614839
<i>TACO1</i>	98,40%	93,00%	100%	100%	Mitochondrial complex IV deficiency, 220110
<i>TACR3</i>	100%	100%	100%	100%	Hypogonadotropic hypogonadism 11 with or without anosmia, 614840
<i>TACSTD2</i>	99,00%	96,40%	100%	100%	Corneal dystrophy, gelatinous drop-like, 204870
<i>TAF13</i>	100%	100%	100%	100%	Mental retardation, autosomal recessive 60, 617432
<i>TAF2</i>	99,90%	98,60%	100%	100%	Mental retardation, autosomal recessive 40, 615599
<i>TAF6</i>	99,80%	98,90%	100%	100%	Alazami-Yuan syndrome, 617126
<i>TALDO1</i>	100%	97,90%	100%	100%	Transaldolase deficiency, 606003
<i>TANGO2</i>	100%	99,30%	100%	100%	metabolic encephalomyopathic crises, recurrent, with rhabdomyolysis, cardiac arrhythmias, and neurodegeneration, 616878
<i>TAP1</i>	100%	99,20%	100%	100%	Bare lymphocyte syndrome, type I, 604571
<i>TAP2</i>	99,90%	99,30%	100%	100%	Bare lymphocyte syndrome, type I, due to TAP2 deficiency, 604571
<i>TAPBP</i>	96,50%	95,50%	96,60%	96,60%	Bare lymphocyte syndrome, type I, 604571
<i>TAPT1</i>	91,70%	86,90%	98,50%	94,80%	Osteochondrodysplasia, complex lethal, Symoens-Barnes-Gistelinck type, 616897
<i>TARS2</i>	100%	99,30%	100%	100%	?Combined oxidative phosphorylation deficiency 21, 615918
<i>TAT</i>	100%	100%	100%	100%	Tyrosinemia, type II, 276600
<i>TBC1D20</i>	94,20%	94,20%	100%	99,90%	Warburg micro syndrome 4, 615663
<i>TBC1D23</i>	99,70%	97,20%	100%	100%	Pontocerebellar hypoplasia, type 11, 617695
<i>PIBF1</i>	99,50%	96,20%	100%	100%	Joubert syndrome 33, 617767
<i>PIEZ01</i>	99,90%	98,80%	100%	100%	Lymphatic malformation 6, 616843 Dehydrated hereditary stomatocytosis with or without pseudohyperkalemia and/or perinatal edema, 194380
<i>PIEZ02</i>	100%	99,50%	100%	100%	Arthrogryposis, distal, with impaired proprioception and touch, 617146 Arthrogryposis, distal, type 5, 108145 ?Marden-Walker syndrome, 248700 Arthrogryposis, distal, type 3, 114300
<i>PIGB</i>	99,90%	97,80%	100%	100%	Epileptic encephalopathy, early infantile, 80, 618580
<i>PIGC</i>	99,20%	90,90%	100%	100%	Glycosylphosphatidylinositol biosynthesis defect 16, 617816
<i>PIGG</i>	100%	99,70%	100%	100%	Mental retardation, autosomal recessive 53, 616917
<i>PIGH</i>	82,10%	68,10%	75,20%	74,40%	Glycosylphosphatidylinositol biosynthesis defect 17, 618010
<i>PIGL</i>	100%	100%	100%	100%	CHIME syndrome, 280000
<i>PIGM</i>	100%	100%	100%	100%	Glycosylphosphatidylinositol deficiency, 610293

<i>PIGN</i>	93,80%	91,50%	98,80%	98,80%	Multiple congenital anomalies-hypotonia-seizures syndrome 1, 614080
<i>PIGO</i>	100%	99,90%	100%	100%	Hyperphosphatasia with mental retardation syndrome 2, 614749
<i>PIGP</i>	95,80%	87,30%	100%	100%	Epileptic encephalopathy, early infantile, 55, 617599
<i>PIGQ</i>	92,80%	90,80%	100%	100%	Epileptic encephalopathy, early infantile, 77, 618548
<i>PIGS</i>	100%	100%	100%	100%	Glycosylphosphatidylinositol biosynthesis defect 18, 618143
<i>PIGT</i>	98,10%	98,10%	100%	100%	?Paroxysmal nocturnal hemoglobinuria 2, 615399 Multiple congenital anomalies-hypotonia-seizures syndrome 3, 615398
<i>PIGU</i>	100%	99,10%	100%	100%	Glycosylphosphatidylinositol biosynthesis defect 21, 618590
<i>PIGV</i>	100%	100%	100%	100%	Hyperphosphatasia with mental retardation syndrome 1, 239300
<i>PIGW</i>	100%	99,80%	100%	100%	Glycosylphosphatidylinositol biosynthesis defect 11, 616025
<i>PIGY</i>	100%	99,90%	100%	100%	Hyperphosphatasia with mental retardation syndrome 6, 616809
<i>PIK3C2A</i>	99,20%	96,90%	100%	100%	Oculoskeletal dental syndrome, 618440
<i>PIK3R1</i>	99,80%	99,00%	100%	100%	SHORT syndrome, 269880 Immunodeficiency 36, 616005 ?Agammaglobulinemia 7, autosomal recessive, 615214
<i>PIK3R5</i>	100%	99,90%	100%	100%	Ataxia-oculomotor apraxia 3, 615217
<i>PINK1</i>	90,70%	86,90%	99,90%	99,40%	Parkinson disease 6, early onset, 605909
<i>PIP5K1C</i>	98,00%	95,80%	99,90%	99,80%	Lethal congenital contractual syndrome 3, 611369
<i>PKD1L1</i>	100%	99,80%	100%	100%	Heterotaxy, visceral, 8, autosomal, 617205
<i>PKHD1</i>	100%	99,60%	100%	100%	Polycystic kidney disease 4, with or without hepatic disease, 263200
<i>PKLR</i>	100%	99,20%	100%	100%	Pyruvate kinase deficiency, 266200 Adenosine triphosphate, elevated, of erythrocytes, 102900
<i>PKP1</i>	100%	99,10%	100%	100%	Ectodermal dysplasia/skin fragility syndrome, 604536
<i>PLA2G6</i>	99,90%	98,30%	100%	100%	Infantile neuroaxonal dystrophy 1, 256600 Parkinson disease 14, autosomal recessive, 612953 Neurodegeneration with brain iron accumulation 2B, 610217
<i>PLA2G7</i>	99,90%	99,00%	100%	100%	Platelet-activating factor acetylhydrolase deficiency, 614278
<i>PLAA</i>	100%	99,20%	100%	100%	Neurodevelopmental disorder with progressive microcephaly, spasticity, and brain anomalies, 617527
<i>PLCB1</i>	100%	99,80%	100%	100%	Epileptic encephalopathy, early infantile, 12, 613722
<i>PLCD1</i>	99,90%	97,80%	100%	100%	Nail disorder, nonsyndromic congenital, 3, (leukonychia), 151600
<i>PLCE1</i>	99,90%	99,30%	100%	100%	Nephrotic syndrome, type 3, 610725
<i>PLD1</i>	100%	99,60%	100%	100%	Cardiac valvular defect, developmental, 212093
<i>PLEC</i>	100%	99,80%	100%	100%	Muscular dystrophy, limb-girdle, autosomal recessive 17, 613723 Epidermolysis bullosa simplex with pyloric atresia, 612138 Epidermolysis bullosa simplex with muscular dystrophy, 226670 ?Epidermolysis bullosa simplex with nail dystrophy, 616487 Epidermolysis bullosa simplex, Ogna type, 131950

<i>PLEKHG2</i>	100%	99,30%	100%	100%	Leukodystrophy and acquired microcephaly with or without dystonia, 616763
<i>PLEKHG5</i>	98,90%	94,60%	100%	99,90%	Spinal muscular atrophy, distal, autosomal recessive, 4, 611067 Charcot-Marie-Tooth disease, recessive intermediate C, 615376
<i>PLEKHM1</i>	100%	99,80%	100%	100%	Osteopetrosis, autosomal dominant 3, 618107 ?Osteopetrosis, autosomal recessive 6, 611497
<i>PLG</i>	87,80%	87,50%	100%	100%	Dysplasminogenemia, 217090 Plasminogen deficiency, type I, 217090
<i>PLK4</i>	99,90%	98,20%	100%	100%	Microcephaly and chorioretinopathy, autosomal recessive, 2, 616171
<i>PLOD1</i>	100%	98,40%	100%	100%	Ehlers-Danlos syndrome, kyphoscoliotic type, 1, 225400
<i>PLOD2</i>	99,30%	97,30%	100%	100%	Bruck syndrome 2, 609220
<i>PLOD3</i>	99,80%	98,00%	100%	100%	Lysyl hydroxylase 3 deficiency, 612394
<i>PLPBP</i>	98,20%	90,10%	100%	100%	Epilepsy, early-onset, vitamin B6-dependent, 617290
<i>PLVAP</i>	100%	100%	100%	100%	Diarrhea 10, protein-losing enteropathy type, 618183
<i>PMM2</i>	100%	100%	100%	100%	Congenital disorder of glycosylation, type Ia, 212065
<i>PMPCA</i>	97,70%	94,20%	100%	100%	Spinocerebellar ataxia, autosomal recessive 2, 213200
<i>PMPCB</i>	100%	99,70%	100%	100%	Multiple mitochondrial dysfunctions syndrome 6, 617954
<i>PMS2</i>	84,30%	82,80%	100%	100%	Mismatch repair cancer syndrome, 276300 Colorectal cancer, hereditary nonpolyposis, type 4, 614337
<i>PNKP</i>	100%	100%	100%	100%	Ataxia-oculomotor apraxia 4, 616267 Microcephaly, seizures, and developmental delay, 613402
<i>PNLIP</i>	100%	99,80%	100%	100%	?Pancreatic lipase deficiency, 614338
<i>PNP</i>	99,80%	98,90%	100%	100%	Immunodeficiency due to purine nucleoside phosphorylase deficiency, 613179
<i>PNPLA1</i>	100%	100%	100%	100%	Ichthyosis, congenital, autosomal recessive 10, 615024
<i>PNPLA2</i>	99,70%	96,10%	100%	100%	Neutral lipid storage disease with myopathy, 610717
<i>PNPLA6</i>	100%	99,70%	100%	100%	Spastic paraparesis 39, autosomal recessive, 612020 Boucher-Neuhauser syndrome, 215470 Oliver-McFarlane syndrome, 275400 ?Laurence-Moon syndrome, 245800
<i>PNPLA8</i>	100%	99,80%	100%	100%	?Mitochondrial myopathy with lactic acidosis, 251950
<i>PNPO</i>	99,90%	97,70%	100%	100%	Pyridoxamine 5'-phosphate oxidase deficiency, 610090
<i>PNPT1</i>	97,70%	89,70%	100%	100%	Deafness, autosomal recessive 70, 614934 Combined oxidative phosphorylation deficiency 13, 614932
<i>POC1A</i>	100%	100%	100%	100%	Short stature, onychodysplasia, facial dysmorphism, and hypotrichosis, 614813
<i>POC1B</i>	99,80%	98,80%	100%	100%	Cone-rod dystrophy 20, 615973
<i>POGLUT1</i>	99,40%	94,60%	100%	100%	?Muscular dystrophy, limb-girdle, autosomal recessive 21, 617232 Dowling-Degos disease 4, 615696

<i>POLE</i>	100%	99,80%	100%	100%	FILS syndrome, 615139 IMAGE-I syndrome, 618336
<i>POLG</i>	100%	99,30%	100%	100%	Progressive external ophthalmoplegia, autosomal dominant 1, 157640 Mitochondrial DNA depletion syndrome 4B (MNGIE type), 613662 Mitochondrial recessive ataxia syndrome (includes SANDO and SCAE), 607459 Mitochondrial DNA depletion syndrome 4A (Alpers type), 203700 Progressive external ophthalmoplegia, autosomal recessive 1, 258450
<i>POLH</i>	100%	99,60%	100%	100%	Xeroderma pigmentosum, variant type, 278750
<i>POLR1C</i>	99,30%	95,50%	90,70%	90,70%	Treacher Collins syndrome 3, 248390 Leukodystrophy, hypomyelinating, 11, 616494
<i>POLR1D</i>	91,60%	91,60%	100%	100%	Treacher Collins syndrome 2, 613717
<i>POLR3A</i>	100%	99,70%	100%	100%	Leukodystrophy, hypomyelinating, 7, with or without oligodontia and/or hypogonadotropic hypogonadism, 607694 Wiedemann-Rautenstrauch syndrome, 264090
<i>POLR3B</i>	99,90%	98,60%	100%	100%	Leukodystrophy, hypomyelinating, 8, with or without oligodontia and/or hypogonadotropic hypogonadism, 614381
<i>POMC</i>	100%	100%	100%	100%	Obesity, adrenal insufficiency, and red hair due to POMC deficiency, 609734
<i>POMGNT1</i>	100%	99,90%	100%	100%	Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 3, 613151 Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 3, 613157 Retinitis pigmentosa 76, 617123 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 3, 253280
<i>POMGNT2</i>	100%	100%	100%	100%	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies, type A, 8, 614830 Muscular dystrophy-dystroglycanopathy (limb-girdle) type C, 8, 618135
<i>POMK</i>	100%	100%	100%	100%	?Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 12, 616094 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 12, 615249
<i>POMP</i>	100%	99,10%	100%	100%	Proteasome-associated autoinflammatory syndrome 2, 618048 Keratosis linearis with ichthyosis congenita and sclerosing keratoderma, 601952
<i>POMT1</i>	99,30%	97,50%	100%	100%	Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 1, 609308 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 1, 236670 Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 1, 613155
<i>POMT2</i>	99,40%	96,40%	100%	100%	Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 2, 613158 Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 2, 613150 Muscular dystrophy-dystroglycanopathy (congenital with mental retardation), type B, 2, 613156
<i>POP1</i>	100%	99,70%	100%	100%	Anauxetic dysplasia 2, 617396
<i>POR</i>	99,80%	98,60%	100%	100%	Disordered steroidogenesis due to cytochrome P450 oxidoreductase, 613571 Antley-Bixler syndrome with genital anomalies and disordered steroidogenesis, 201750
<i>POU1F1</i>	100%	99,20%	100%	100%	Pituitary hormone deficiency, combined, 1, 613038

<i>PPA2</i>	98,70%	94,00%	100%	100%	?Sudden cardiac failure, alcohol-induced, 617223 Sudden cardiac failure, infantile, 617222
<i>PPCS</i>	99,80%	99,50%	100%	100%	Cardiomyopathy, dilated, 2C, 618189
<i>PPIB</i>	100%	100%	100%	100%	Osteogenesis imperfecta, type IX, 259440
<i>PPIP5K2</i>	98,90%	95,20%	100%	100%	Deafness, autosomal recessive 100, 618422
<i>PPM1K</i>	100%	100%	100%	100%	?Maple syrup urine disease, mild variant, 615135
<i>PPP1R15B</i>	100%	99,60%	100%	100%	Microcephaly, short stature, and impaired glucose metabolism 2, 616817
<i>PPP2R3C</i>	99,60%	94,90%	100%	100%	Spermatogenic failure 36, 618420 Gonadal dysgenesis, dysmorphic facies, retinal dystrophy, and myopathy, 618419
<i>PPT1</i>	90,30%	90,30%	82,50%	82,50%	Ceroid lipofuscinosis, neuronal, 1, 256730
<i>PRCD</i>	100%	100%	100%	100%	Retinitis pigmentosa 36, 610599
<i>PRDM12</i>	90,80%	88,00%	93,40%	91,70%	Neuropathy, hereditary sensory and autonomic, type VIII, 616488
<i>PRDM5</i>	99,90%	99,20%	100%	100%	Brittle cornea syndrome 2, 614170
<i>PRDM8</i>	92,90%	88,60%	100%	99,80%	?Epilepsy, progressive myoclonic, 10, 616640
<i>PRDX1</i>	100%	100%	100%	100%	Methylmalonic aciduria and homocystinuria, cblC type, digenic, 277400
<i>PREPL</i>	99,80%	98,20%	100%	100%	Myasthenic syndrome, congenital, 22, 616224
<i>PRF1</i>	91,20%	90,80%	100%	100%	Aplastic anemia, 609135 Lymphoma, non-Hodgkin, 605027 Hemophagocytic lymphohistiocytosis, familial, 2, 603553
<i>PRG4</i>	87,40%	80,90%	100%	100%	Camptodactyly-arthropathy-coxa vara-pericarditis syndrome, 208250
<i>PRICKLE1</i>	100%	100%	100%	100%	Epilepsy, progressive myoclonic 1B, 612437
<i>PRKCD</i>	100%	100%	100%	100%	Autoimmune lymphoproliferative syndrome, type III, 615559
<i>PRKDC</i>	99,70%	98,00%	100%	100%	Immunodeficiency 26, with or without neurologic abnormalities, 615966
<i>PRKN</i>	79,80%	78,80%	89,80%	89,80%	Parkinson disease, juvenile, type 2, 600116 Ovarian cancer, somatic, 167000 Adenocarcinoma of lung, somatic, 211980
<i>PRKRA</i>	100%	99,40%	100%	100%	Dystonia 16, 612067
<i>PRMT7</i>	100%	99,90%	100%	100%	Short stature, brachydactyly, intellectual developmental disability, and seizures, 617157
<i>PROC</i>	100%	100%	100%	100%	Thrombophilia due to protein C deficiency, autosomal dominant, 176860 Thrombophilia due to protein C deficiency, autosomal recessive, 612304
<i>PRODH</i>	85,00%	80,60%	100%	100%	Hyperprolinemia, type I, 239500
<i>PROM1</i>	97,20%	96,10%	100%	100%	Retinitis pigmentosa 41, 612095 Stargardt disease 4, 603786 Cone-rod dystrophy 12, 612657 Macular dystrophy, retinal, 2, 608051
<i>PROP1</i>	92,60%	82,60%	100%	100%	Pituitary hormone deficiency, combined, 2, 262600

<i>PROS1</i>	98,80%	96,10%	100%	100%	Thrombophilia due to protein S deficiency, autosomal recessive, 614514 Thrombophilia due to protein S deficiency, autosomal dominant, 612336
<i>PRSS12</i>	100%	99,90%	100%	100%	Mental retardation, autosomal recessive 1, 249500
<i>PRSS56</i>	99,90%	96,40%	100%	100%	Microphthalmia, isolated 6, 613517
<i>PRUNE1</i>	100%	99,90%	100%	100%	Neurodevelopmental disorder with microcephaly, hypotonia, and variable brain anomalies, 617481
<i>PRX</i>	100%	100%	100%	100%	Charcot-Marie-Tooth disease, type 4F, 614895 Dejerine-Sottas disease, 145900
<i>PSAP</i>	100%	100%	100%	100%	Gaucher disease, atypical, 610539 Krabbe disease, atypical, 611722 Combined SAP deficiency, 611721 Metachromatic leukodystrophy due to SAP-b deficiency, 249900
<i>PSAT1</i>	95,30%	81,60%	100%	100%	Neu-Laxova syndrome 2, 616038 ?Phosphoserine aminotransferase deficiency, 610992
<i>PSMB4</i>	100%	100%	100%	100%	?Proteasome-associated autoinflammatory syndrome 3 and digenic forms, 617591
<i>PSMB8</i>	99,90%	98,50%	100%	100%	Proteasome-associated autoinflammatory syndrome 1 and digenic forms, 256040
<i>PSMB9</i>	99,90%	97,70%	100%	100%	?Proteasome-associated autoinflammatory syndrome 3, digenic, 617591
<i>PSMC3IP</i>	100%	100%	100%	100%	Ovarian dysgenesis 3, 614324
<i>PSPH</i>	100%	100%	100%	100%	Phosphoserine phosphatase deficiency, 614023
<i>PTF1A</i>	95,80%	85,60%	98,60%	93,30%	Pancreatic and cerebellar agenesis, 609069 Pancreatic agenesis 2, 615935
<i>PTH1R</i>	100%	98,70%	100%	100%	Metaphyseal chondrodysplasia, Murk Jansen type, 156400 Failure of tooth eruption, primary, 125350 Eiken syndrome, 600002 Chondrodysplasia, Blomstrand type, 215045
<i>PTPN14</i>	99,70%	97,40%	100%	100%	Choanal atresia and lymphedema, 613611
<i>PTPRC</i>	99,00%	95,10%	100%	100%	Severe combined immunodeficiency, T cell-negative, B-cell/natural killer-cell positive, 608971
<i>PTPRO</i>	99,90%	99,40%	100%	100%	Nephrotic syndrome, type 6, 614196
<i>PTPRQ</i>	94,60%	92,50%	92,80%	92,70%	Deafness, autosomal dominant 73, 617663 Deafness, autosomal recessive 84A, 613391
<i>PTRH2</i>	100%	100%	100%	100%	Infantile-onset multisystem neurologic, endocrine, and pancreatic disease, 616263
<i>PTS</i>	99,90%	99,10%	100%	100%	Hyperphenylalaninemia, BH4-deficient, A, 261640
<i>PUS1</i>	100%	99,50%	99,60%	97,20%	Myopathy, lactic acidosis, and sideroblastic anemia 1, 600462
<i>PUS3</i>	100%	100%	100%	100%	Mental retardation, autosomal recessive 55, 617051
<i>PUS7</i>	100%	99,80%	100%	100%	Intellectual developmental disorder with abnormal behavior, microcephaly, and short stature, 618342
<i>PXDN</i>	100%	99,60%	100%	100%	Anterior segment dysgenesis 7, with sclerocornea, 269400
<i>PYCR1</i>	99,90%	97,70%	100%	100%	Cutis laxa, autosomal recessive, type IIIB, 614438 Cutis laxa, autosomal recessive, type IIB, 612940
<i>PYCR2</i>	100%	99,10%	100%	100%	Leukodystrophy, hypomyelinating, 10, 616420

<i>PYGL</i>	100%	100%	100%	100%	Glycogen storage disease VI, 232700
<i>PYGM</i>	100%	99,90%	100%	100%	McArdle disease, 232600
<i>PYROXD1</i>	95,20%	83,90%	100%	100%	Myopathy, myofibrillar, 8, 617258
<i>QARS</i>	100%	100%	100%	100%	Microcephaly, progressive, seizures, and cerebral and cerebellar atrophy, 615760
<i>QDPR</i>	100%	99,70%	100%	100%	Hyperphenylalaninemia, BH4-deficient, C, 261630
<i>RAB18</i>	99,50%	97,40%	100%	100%	Warburg micro syndrome 3, 614222
<i>RAB23</i>	100%	99,50%	100%	100%	Carpenter syndrome, 201000
<i>RAB27A</i>	100%	100%	100%	100%	Griselli syndrome, type 2, 607624
<i>RAB28</i>	99,70%	96,00%	100%	100%	Cone-rod dystrophy 18, 615374
<i>RAB33B</i>	100%	100%	100%	100%	Smith-McCort dysplasia 2, 615222
<i>RAB3GAP1</i>	99,40%	98,90%	99,40%	99,40%	Warburg micro syndrome 1, 600118
<i>RAB3GAP2</i>	99,50%	97,00%	100%	100%	Warburg micro syndrome 2, 614225 Martsolf syndrome, 212720
<i>RAD50</i>	97,50%	91,60%	100%	100%	Nijmegen breakage syndrome-like disorder, 613078
<i>RAD51C</i>	100%	99,80%	100%	100%	Fanconi anemia, complementation group O, 613390
<i>RAG1</i>	100%	100%	100%	100%	Omenn syndrome, 603554 Severe combined immunodeficiency, B cell-negative, 601457 Alpha/beta T-cell lymphopenia with gamma/delta T-cell expansion, severe cytomegalovirus infection, and autoimmunity, 609889 Combined cellular and humoral immune defects with granulomas, 233650
<i>RAG2</i>	100%	100%	100%	100%	Severe combined immunodeficiency, B cell-negative, 601457 Combined cellular and humoral immune defects with granulomas, 233650 Omenn syndrome, 603554
<i>RAPSN</i>	100%	99,70%	100%	100%	Fetal aknesia deformation sequence 2, 618388 Myasthenic syndrome, congenital, 11, associated with acetylcholine receptor deficiency, 616326
<i>RARB</i>	100%	100%	100%	100%	Microphthalmia, syndromic 12, 615524
<i>RARS</i>	94,20%	91,60%	94,40%	94,30%	Leukodystrophy, hypomyelinating, 9, 616140
<i>RARS2</i>	100%	99,80%	100%	100%	Pontocerebellar hypoplasia, type 6, 611523
<i>RASGRP1</i>	100%	99,60%	100%	100%	Immunodeficiency 64, 618534
<i>RASGRP2</i>	99,70%	97,30%	100%	100%	?Bleeding disorder, platelet-type, 18, 615888
<i>RAX</i>	96,00%	87,00%	100%	98,40%	Microphthalmia, isolated 3, 611038
<i>RBBP8</i>	100%	99,70%	100%	100%	Jawad syndrome, 251255 Seckel syndrome 2, 606744 Pancreatic carcinoma, somatic, 0
<i>RBCK1</i>	99,90%	98,20%	100%	100%	Polyglucosan body myopathy 1 with or without immunodeficiency, 615895
<i>RBM28</i>	100%	100%	100%	100%	?Alopecia, neurologic defects, and endocrinopathy syndrome, 612079
<i>RBM8A</i>	99,80%	97,90%	100%	100%	Thrombocytopenia-absent radius syndrome, 274000

<i>RBP3</i>	100%	100%	100%	100%	?Retinitis pigmentosa 66, 615233
<i>RBP4</i>	99,90%	97,70%	100%	100%	Microphtalmia, isolated, with coloboma 10, 616428 Retinal dystrophy, iris coloboma, and comedogenic acne syndrome, 615147
<i>RCBTB1</i>	99,90%	99,50%	100%	100%	Retinal dystrophy with or without extraocular anomalies, 617175
<i>RD3</i>	100%	100%	100%	100%	Leber congenital amaurosis 12, 610612
<i>RDH11</i>	100%	99,00%	100%	100%	?Retinal dystrophy, juvenile cataracts, and short stature syndrome, 616108
<i>RDH12</i>	100%	98,60%	100%	100%	Leber congenital amaurosis 13, 612712
<i>RDH5</i>	100%	99,90%	100%	100%	Fundus albipunctatus, 136880
<i>RDX</i>	89,10%	71,50%	100%	100%	Deafness, autosomal recessive 24, 611022
<i>RECQL4</i>	99,80%	98,10%	100%	99,90%	RAPADILINO syndrome, 266280 Baller-Gerold syndrome, 218600 Rothmund-Thomson syndrome, type 2,, 268400
<i>REEP2</i>	99,90%	98,60%	100%	100%	?Spastic paraplegia 72, autosomal dominant, 615625 ?Spastic paraplegia 72, autosomal recessive, 615625
<i>REEP6</i>	100%	100%	100%	100%	Retinitis pigmentosa 77, 617304
<i>RELB</i>	98,80%	88,70%	100%	100%	?Immunodeficiency 53, 617585
<i>RELN</i>	100%	99,80%	100%	100%	Lissencephaly 2 (Norman-Roberts type), 257320
<i>REN</i>	100%	100%	100%	100%	Renal tubular dysgenesis, 267430 Hyperuricemic nephropathy, familial juvenile 2, 613092
<i>REPS1</i>	99,60%	97,50%	100%	100%	?Neurodegeneration with brain iron accumulation 7, 617916
<i>RETREG1</i>	98,80%	95,10%	100%	100%	Neuropathy, hereditary sensory and autonomic, type IIB, 613115
<i>RFC1</i>	99,90%	98,90%	100%	100%	Cerebellar ataxia, neuropathy, and vestibular areflexia syndrome, 614575
<i>RFT1</i>	99,80%	99,60%	100%	100%	Congenital disorder of glycosylation, type In, 612015
<i>RFWD3</i>	100%	99,80%	100%	100%	?Fanconi anemia, complementation group W, 617784
<i>RFX5</i>	99,70%	98,10%	100%	100%	Bare lymphocyte syndrome, type II, complementation group C, 209920 Bare lymphocyte syndrome, type II, complementation group E, 209920
<i>RFX6</i>	100%	99,60%	100%	100%	Mitchell-Riley syndrome, 615710
<i>RFXANK</i>	100%	99,50%	100%	100%	MHC class II deficiency, complementation group B, 209920
<i>RFXAP</i>	99,30%	97,00%	100%	99,90%	Bare lymphocyte syndrome, type II, complementation group D, 209920
<i>RGR</i>	100%	99,10%	100%	100%	Retinitis pigmentosa 44, 613769
<i>RHO</i>	100%	100%	100%	100%	Night blindness, congenital stationary, autosomal dominant 1, 610445 Retinitis punctata albescens, 136880 Retinitis pigmentosa 4, autosomal dominant or recessive, 613731
<i>RIN2</i>	100%	100%	100%	100%	Macrocephaly, alopecia, cutis laxa, and scoliosis, 613075
<i>RINT1</i>	99,90%	98,60%	100%	100%	Infantile liver failure syndrome 3, 618641

<i>RMRP</i>	NC	NC	NC	NC	Anauxetic dysplasia 1, 607095 Cartilage-hair hypoplasia, 250250 Metaphyseal dysplasia without hypotrichosis, 250460
<i>RIPK1</i>	100%	99,00%	100%	100%	Immunodeficiency 57 with autoinflammation, 618108 Autoinflammation with episodic fever and lymphadenopathy, 618852
<i>RIPK4</i>	100%	99,90%	100%	100%	Popliteal pterygium syndrome, Bartsocas-Papas type, 263650 CHAND syndrome, 214350
<i>RIPOR2</i>	100%	99,80%	100%	100%	?Deafness, autosomal recessive 104, 616515
<i>RIPPLY2</i>	100%	97,90%	100%	100%	?Spondylocostal dysostosis 6, 616566
<i>RLBP1</i>	100%	99,90%	100%	100%	Fundus albipunctatus, 136880 Retinitis punctata albescens, 136880 Bothnia retinal dystrophy, 607475 Newfoundland rod-cone dystrophy, 607476
<i>RMND1</i>	100%	98,60%	100%	100%	Combined oxidative phosphorylation deficiency 11, 614922
<i>RNASEH1</i>	98,50%	95,30%	100%	100%	Progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal recessive 2, 616479
<i>RNASEH2A</i>	100%	100%	100%	100%	Aicardi-Goutieres syndrome 4, 610333
<i>RNASEH2B</i>	96,00%	92,50%	100%	99,80%	Aicardi-Goutieres syndrome 2, 610181
<i>RNASEH2C</i>	100%	99,50%	100%	100%	Aicardi-Goutieres syndrome 3, 610329
<i>RNASET2</i>	97,40%	93,10%	100%	100%	Leukoencephalopathy, cystic, without megalencephaly, 612951
<i>RNF168</i>	100%	99,80%	100%	100%	RIDDLE syndrome, 611943
<i>RNF216</i>	99,80%	98,70%	100%	100%	Cerebellar ataxia and hypogonadotropic hypogonadism, 212840
<i>RNPC3</i>	91,50%	70,70%	100%	100%	?Growth hormone deficiency, isolated, type V, 618160
<i>ROBO3</i>	98,90%	96,10%	100%	100%	Gaze palsy, familial horizontal, with progressive scoliosis, 1, 607313
<i>ROGDI</i>	98,40%	95,20%	99,90%	99,10%	Kohlschutter-Tonz syndrome, 226750
<i>ROR1</i>	97,00%	96,80%	99,90%	99,30%	?Deafness, autosomal recessive 108, 617654
<i>ROR2</i>	100%	99,90%	97,00%	97,00%	Brachydactyly, type B1, 113000 Robinow syndrome, autosomal recessive, 268310
<i>RORC</i>	100%	100%	100%	100%	Immunodeficiency 42, 616622
<i>RP1</i>	91,50%	90,60%	100%	100%	Retinitis pigmentosa 1, 180100
<i>RPE65</i>	99,80%	97,80%	100%	100%	Leber congenital amaurosis 2, 204100 Retinitis pigmentosa 87 with choroidal involvement, 618697 Retinitis pigmentosa 20, 613794
<i>RPGRIP1</i>	100%	99,90%	100%	100%	Cone-rod dystrophy 13, 608194 Leber congenital amaurosis 6, 613826
<i>RPGRIP1L</i>	96,70%	95,70%	100%	99,50%	COACH syndrome, 216360 Meckel syndrome 5, 611561 Joubert syndrome 7, 611560
<i>RPIA</i>	98,60%	94,90%	100%	100%	Ribose 5-phosphate isomerase deficiency, 608611

<i>RRM2B</i>	100%	99,70%	100%	100%	Progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal dominant 5, 613077 Mitochondrial DNA depletion syndrome 8A (encephalomyopathic type with renal tubulopathy), 612075 Mitochondrial DNA depletion syndrome 8B (MNGIE type), 612075
<i>RSPH1</i>	100%	100%	100%	100%	Ciliary dyskinesia, primary, 24, 615481
<i>RSPH3</i>	99,90%	98,80%	100%	100%	Ciliary dyskinesia, primary, 32, 616481
<i>RSPH4A</i>	98,10%	95,60%	100%	100%	Ciliary dyskinesia, primary, 11, 612649
<i>RSPH9</i>	99,90%	97,90%	100%	100%	Ciliary dyskinesia, primary, 12, 612650
<i>RSPO1</i>	100%	99,90%	100%	100%	Palmoplantar hyperkeratosis with squamous cell carcinoma of skin and sex reversal, 610644 Palmoplantar hyperkeratosis and true hermaphroditism, 610644
<i>RSPO2</i>	97,10%	90,70%	100%	100%	Tetraamelia syndrome 2, 618021 ?Humerofemoral hypoplasia with radiotibial ray deficiency, 618022
<i>RSPO4</i>	100%	100%	100%	100%	Anonychia congenita, 206800
<i>RSPRY1</i>	100%	100%	100%	100%	Spondyloepimetaphyseal dysplasia, Faden-Alkuraya type, 616723
<i>RSRC1</i>	99,80%	96,80%	100%	100%	Intellectual developmental disorder, autosomal recessive 70, 618402
<i>RTEL1</i>	99,50%	96,80%	100%	100%	Dyskeratosis congenita, autosomal recessive 5, 615190 Pulmonary fibrosis and/or bone marrow failure, telomere-related, 3, 616373 Dyskeratosis congenita, autosomal dominant 4, 615190
<i>RTN4IP1</i>	99,90%	98,70%	100%	100%	Optic atrophy 10 with or without ataxia, mental retardation, and seizures, 616732
<i>RTTN</i>	98,90%	98,00%	100%	100%	Microcephaly, short stature, and polymicrogyria with seizures, 614833
<i>RUBCN</i>	99,40%	97,50%	100%	100%	?Spinocerebellar ataxia, autosomal recessive 15, 615705
<i>RUSC2</i>	100%	100%	100%	100%	Mental retardation, autosomal recessive 61, 617773
<i>RYR1</i>	96,90%	93,90%	99,40%	99,00%	Central core disease, 117000 King-Denborough syndrome, 145600 Minicore myopathy with external ophthalmoplegia, 255320 Neuromuscular disease, congenital, with uniform type 1 fiber, 117000
<i>S1PR2</i>	99,40%	96,90%	100%	100%	Deafness, autosomal recessive 68, 610419
<i>SACS</i>	100%	100%	100%	100%	Spastic ataxia, Charlevoix-Saguenay type, 270550
<i>SAG</i>	100%	100%	100%	100%	Oguchi disease-1, 258100 Retinitis pigmentosa 47, 613758
<i>SALL2</i>	100%	100%	100%	100%	?Coloboma, ocular, autosomal recessive, 216820
<i>SAMD9</i>	100%	99,80%	100%	100%	MIRAGE syndrome, 617053 Tumoral calcinosis, familial, normophosphatemic, 610455
<i>SAMHD1</i>	100%	99,60%	100%	100%	?Chilblain lupus 2, 614415 Aicardi-Goutieres syndrome 5, 612952
<i>SAR1B</i>	97,00%	89,70%	100%	100%	Chylomicron retention disease, 246700
<i>SARS</i>	100%	99,30%	100%	100%	?Neurodevelopmental disorder with microcephaly, ataxia, and seizures, 617709
<i>SARS2</i>	95,80%	94,60%	100%	100%	Hyperuricemia, pulmonary hypertension, renal failure, and alkalosis, 613845

<i>SASH1</i>	99,90%	98,70%	100%	100%	?Cancer, alopecia, pigment dyscrasia, onychodystrophy, and keratoderma, 618373 Dyschromatosis universalis hereditaria 1, 127500
<i>SASS6</i>	99,90%	98,50%	100%	100%	?Microcephaly 14, primary, autosomal recessive, 616402
<i>SBDS</i>	100%	100%	100%	100%	Shwachman-Diamond syndrome, 260400
<i>SBF1</i>	99,00%	97,70%	100%	100%	Charcot-Marie-Tooth disease, type 4B3, 615284
<i>SBF2</i>	99,90%	99,40%	100%	100%	Charcot-Marie-Tooth disease, type 4B2, 604563
<i>SC5D</i>	100%	99,50%	100%	100%	Lathosterolosis, 607330
<i>SCAPER</i>	99,70%	98,20%	100%	100%	Intellectual developmental disorder and retinitis pigmentosa, 618195
<i>SCARB2</i>	100%	99,80%	100%	100%	Epilepsy, progressive myoclonic 4, with or without renal failure, 254900
<i>SCARF2</i>	95,40%	86,30%	99,80%	99,20%	Van den Ende-Gupta syndrome, 600920
<i>SCN1B</i>	98,00%	96,40%	99,80%	99,30%	Epileptic encephalopathy, early infantile, 52, 617350 Atrial fibrillation, familial, 13, 615377 Cardiac conduction defect, nonspecific, 612838 Epilepsy, generalized, with febrile seizures plus, type 1, 604233 Brugada syndrome 5, 612838
<i>SCN4A</i>	100%	99,60%	100%	100%	Paramyotonia congenita, 168300 Hyperkalemic periodic paralysis, type 2, 170500 Myotonia congenita, atypical, acetazolamide-responsive, 608390 Myasthenic syndrome, congenital, 16, 614198 Hypokalemic periodic paralysis, type 2, 613345
<i>SCN9A</i>	99,30%	97,80%	100%	100%	Small fiber neuropathy, 133020 HSAN2D, autosomal recessive, 243000 Paroxysmal extreme pain disorder, 167400 Epilepsy, generalized, with febrile seizures plus, type 7, 613863 Insensitivity to pain, congenital, 243000 Erythermalgia, primary, 133020 Febrile seizures, familial, 3B, 613863
<i>SCNN1A</i>	99,70%	98,20%	100%	100%	Pseudohypoaldosteronism, type I, 264350 ?Liddle syndrome 3, 618126 Bronchiectasis with or without elevated sweat chloride 2, 613021
<i>SCNN1B</i>	100%	99,70%	100%	100%	Pseudohypoaldosteronism, type I, 264350 Liddle syndrome 1, 177200 Bronchiectasis with or without elevated sweat chloride 1, 211400
<i>SCNN1G</i>	99,80%	98,30%	100%	100%	Liddle syndrome 2, 618114 Pseudohypoaldosteronism, type I, 264350 Bronchiectasis with or without elevated sweat chloride 3, 613071
<i>SCO1</i>	97,10%	93,80%	100%	100%	Mitochondrial complex IV deficiency, 220110

<i>SCO2</i>	100%	100%	100%	100%	Myopia 6, 608908 Cardioencephalomyopathy, fatal infantile, due to cytochrome c oxidase deficiency 1, 604377
<i>SCP2</i>	100%	99,20%	100%	100%	?Leukoencephalopathy with dystonia and motor neuropathy, 613724
<i>SCYL1</i>	100%	100%	100%	100%	Spinocerebellar ataxia, autosomal recessive 21, 616719
<i>SDCCAG8</i>	100%	99,90%	100%	100%	Bardet-Biedl syndrome 16, 615993 Senior-Loken syndrome 7, 613615
<i>SDHA</i>	85,80%	80,40%	100%	100%	Leigh syndrome, 256000 Paragangliomas 5, 614165 Cardiomyopathy, dilated, 1GG, 613642 Mitochondrial respiratory chain complex II deficiency, 252011
<i>SDHAF1</i>	99,90%	93,20%	100%	100%	Mitochondrial complex II deficiency, 252011
<i>SDHD</i>	54,00%	51,60%	80,10%	80,10%	Paragangliomas 1, with or without deafness, 168000 Mitochondrial complex II deficiency, 252011 Paraganglioma and gastric stromal sarcoma, 606864 Pheochromocytoma, 171300
<i>SDR9C7</i>	100%	100%	100%	100%	Ichthyosis, congenital, autosomal recessive 13, 617574
<i>SEC23A</i>	99,70%	98,20%	100%	100%	Craniolenticulosutural dysplasia, 607812
<i>SEC23B</i>	99,90%	99,30%	100%	100%	?Cowden syndrome 7, 616858 Dyserythropoietic anemia, congenital, type II, 224100
<i>SEC24D</i>	100%	99,70%	100%	100%	Cole-Carpenter syndrome 2, 616294
<i>SEC31A</i>	99,30%	97,10%	100%	100%	?Neurodevelopmental disorder with spastic quadriplegia, optic atrophy, seizures, and structural brain anomalies, 618651
<i>SECISBP2</i>	99,80%	97,40%	100%	100%	Thyroid hormone metabolism, abnormal, 609698
<i>SELENON</i>	84,50%	84,00%	87,70%	85,10%	Muscular dystrophy, rigid spine, 1, 602771 Myopathy, congenital, with fiber-type disproportion, 255310
<i>SEMA4A</i>	100%	99,80%	100%	100%	Cone-rod dystrophy 10, 610283 Retinitis pigmentosa 35, 610282
<i>SEPSECS</i>	100%	100%	100%	100%	Pontocerebellar hypoplasia type 2D, 613811
<i>SERAC1</i>	99,90%	99,50%	100%	100%	3-methylglutaconic aciduria with deafness, encephalopathy, and Leigh-like syndrome, 614739
<i>SERPINA1</i>	100%	100%	100%	100%	Hemorrhagic diathesis due to antithrombin Pittsburgh, 613490 Emphysema-cirrhosis, due to AAT deficiency, 613490 Emphysema due to AAT deficiency, 613490
<i>SERPINA6</i>	100%	100%	100%	100%	Corticosteroid-binding globulin deficiency, 611489
<i>SERPINB6</i>	95,90%	95,90%	100%	100%	?Deafness, autosomal recessive 91, 613453
<i>SERPINB7</i>	100%	99,90%	100%	100%	Palmoplantar keratoderma, Nagashima type, 615598
<i>SERPINB8</i>	95,00%	95,00%	100%	100%	Peeling skin syndrome 5, 617115
<i>SERPINC1</i>	100%	100%	100%	100%	Thrombophilia due to antithrombin III deficiency, 613118
<i>SERPINE1</i>	100%	100%	100%	100%	Plasminogen activator inhibitor-1 deficiency, 613329

<i>SERPINF1</i>	100%	100%	100%	100%	Osteogenesis imperfecta, type VI, 613982
<i>SERPINF2</i>	100%	99,80%	100%	100%	Alpha-2-plasmin inhibitor deficiency, 262850
<i>SERPING1</i>	99,70%	97,50%	100%	100%	Angioedema, hereditary, types I and II, 106100 Complement component 4, partial deficiency of, 120790
<i>SERPINH1</i>	100%	98,30%	100%	100%	Osteogenesis imperfecta, type X, 613848
<i>SETX</i>	100%	99,80%	100%	100%	Spinocerebellar ataxia, autosomal recessive, with axonal neuropathy 2, 606002 Amyotrophic lateral sclerosis 4, juvenile, 602433
<i>SFRP4</i>	100%	99,80%	100%	100%	Pyle disease, 265900
<i>SFTPB</i>	99,50%	96,80%	100%	100%	Surfactant metabolism dysfunction, pulmonary, 1, 265120
<i>SFXN4</i>	99,90%	98,90%	100%	100%	Combined oxidative phosphorylation deficiency 18, 615578
<i>SGCA</i>	100%	99,90%	100%	100%	Muscular dystrophy, limb-girdle, autosomal recessive 3, 608099
<i>SGCB</i>	97,70%	96,50%	100%	100%	Muscular dystrophy, limb-girdle, autosomal recessive 4, 604286
<i>SGCD</i>	100%	98,90%	100%	100%	Cardiomyopathy, dilated, 1L, 606685 Muscular dystrophy, limb-girdle, autosomal recessive 6, 601287
<i>SGCG</i>	100%	99,20%	100%	100%	Muscular dystrophy, limb-girdle, autosomal recessive 5, 253700
<i>SGO1</i>	99,90%	98,90%	100%	100%	Chronic atrial and intestinal dysrhythmia, 616201
<i>SGPL1</i>	100%	100%	100%	100%	Nephrotic syndrome, type 14, 617575
<i>SGSH</i>	94,40%	94,10%	100%	100%	Mucopolysaccharidosis type IIIA (Sanfilippo A), 252900
<i>SH3PXD2B</i>	100%	100%	100%	100%	Frank-ter Haar syndrome, 249420
<i>SH3TC2</i>	100%	99,70%	100%	100%	Charcot-Marie-Tooth disease, type 4C, 601596 Mononeuropathy of the median nerve, mild, 613353
<i>SI</i>	99,20%	96,10%	100%	100%	Sucrase-isomaltase deficiency, congenital, 222900
<i>SIGMAR1</i>	100%	100%	100%	100%	?Amyotrophic lateral sclerosis 16, juvenile, 614373 ?Spinal muscular atrophy, distal, autosomal recessive, 2, 605726
<i>SIK3</i>	99,80%	98,70%	99,30%	98,10%	?Spondyloepimetaphyseal dysplasia, Krakow type, 618162
<i>SIL1</i>	99,20%	96,70%	100%	100%	Marinesco-Sjogren syndrome, 248800
<i>SIX6</i>	100%	100%	100%	100%	Optic disc anomalies with retinal and/or macular dystrophy, 212550
<i>SKIV2L</i>	100%	99,80%	100%	100%	Trichohepatoenteric syndrome 2, 614602
<i>SLC10A2</i>	100%	100%	100%	100%	Bile acid malabsorption, primary, 613291
<i>SLC10A7</i>	99,70%	98,00%	100%	100%	Short stature, amelogenesis imperfecta, and skeletal dysplasia with scoliosis, 618363
<i>SLC11A2</i>	100%	99,90%	100%	100%	Anemia, hypochromic microcytic, with iron overload 1, 206100
<i>SLC12A1</i>	100%	99,90%	100%	100%	Bartter syndrome, type 1, 601678
<i>SLC12A3</i>	100%	99,90%	100%	100%	Gitelman syndrome, 263800
<i>SLC12A5</i>	83,90%	83,80%	97,40%	97,40%	Epileptic encephalopathy, early infantile, 34, 616645
<i>SLC12A6</i>	100%	100%	100%	100%	Agenesis of the corpus callosum with peripheral neuropathy, 218000
<i>SLC13A3</i>	99,40%	97,50%	100%	100%	Leukoencephalopathy, acute reversible, with increased urinary alpha-ketoglutarate, 618384
<i>SLC13A5</i>	100%	99,90%	100%	100%	Epileptic encephalopathy, early infantile, 25, 615905

<i>SLC16A1</i>	100%	99,30%	100%	100%	Monocarboxylate transporter 1 deficiency, 616095 Hyperinsulinemic hypoglycemia, familial, 7, 610021 Erythrocyte lactate transporter defect, 245340
<i>SLC17A5</i>	99,60%	97,00%	100%	100%	Sialic acid storage disorder, infantile, 269920 Salla disease, 604369
<i>SLC18A2</i>	100%	99,70%	100%	100%	?Parkinsonism-dystonia, infantile, 2, 618049
<i>SLC18A3</i>	100%	100%	100%	100%	Myasthenic syndrome, congenital, 21, presynaptic, 617239
<i>SLC19A2</i>	100%	99,70%	100%	100%	Thiamine-responsive megaloblastic anemia syndrome, 249270
<i>SLC19A3</i>	100%	99,80%	98,70%	98,70%	Thiamine metabolism dysfunction syndrome 2 (biotin- or thiamine-responsive encephalopathy type 2), 607483
<i>SLC1A1</i>	99,90%	99,60%	100%	100%	Dicarboxylic aminoaciduria, 222730
<i>SLC1A4</i>	99,00%	95,80%	100%	100%	Spastic tetraplegia, thin corpus callosum, and progressive microcephaly, 616657
<i>SLC22A12</i>	100%	99,80%	100%	100%	Hypouricemia, renal, 220150
<i>SLC22A5</i>	100%	100%	100%	100%	Carnitine deficiency, systemic primary, 212140
<i>SLC24A1</i>	100%	99,90%	100%	100%	Night blindness, congenital stationary (complete), 1D, autosomal recessive, 613830
<i>SLC24A4</i>	100%	99,80%	100%	100%	Amelogenesis imperfecta, type IIA5, 615887
<i>SLC24A5</i>	99,90%	99,10%	100%	100%	Albinism, oculocutaneous, type VI, 113750
<i>SLC25A1</i>	95,80%	88,60%	99,50%	97,80%	Myasthenic syndrome, congenital, 23, presynaptic, 618197 Combined D-2- and L-2-hydroxyglutaric aciduria, 615182
<i>SLC25A12</i>	99,90%	99,50%	100%	100%	Epileptic encephalopathy, early infantile, 39, 612949
<i>SLC25A13</i>	100%	99,70%	100%	100%	Citrullinemia, adult-onset type II, 603471 Citrullinemia, type II, neonatal-onset, 605814
<i>SLC25A15</i>	99,80%	98,10%	100%	100%	Hyperornithinemia-hyperammonemia-homocitrullinemia syndrome, 238970
<i>SLC25A19</i>	100%	98,50%	100%	100%	Thiamine metabolism dysfunction syndrome 4 (progressive polyneuropathy type), 613710 Microcephaly, Amish type, 607196
<i>SLC25A20</i>	100%	100%	100%	100%	Carnitine-acylcarnitine translocase deficiency, 212138
<i>SLC25A22</i>	98,60%	95,80%	100%	100%	Epileptic encephalopathy, early infantile, 3, 609304
<i>SLC25A26</i>	100%	99,50%	100%	100%	Combined oxidative phosphorylation deficiency 28, 616794
<i>SLC25A3</i>	99,80%	98,00%	100%	100%	Mitochondrial phosphate carrier deficiency, 610773
<i>SLC25A38</i>	99,70%	97,10%	100%	100%	Anemia, sideroblastic, 2, pyridoxine-refractory, 205950
<i>SLC25A4</i>	100%	100%	100%	100%	Mitochondrial DNA depletion syndrome 12B (cardiomyopathic type) AR, 615418 Mitochondrial DNA depletion syndrome 12A (cardiomyopathic type) AD, 617184 Progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal dominant 2, 609283
<i>SLC25A42</i>	96,50%	93,20%	100%	100%	metabolic crises, recurrent, with variable encephalomyopathic features and neurologic regression, 618416
<i>SLC25A46</i>	99,70%	97,30%	100%	100%	Neuropathy, hereditary motor and sensory, type VIB, 616505
<i>SLC26A1</i>	100%	99,60%	100%	100%	?Nephrolithiasis, calcium oxalate, 167030

<i>SLC26A2</i>	100%	100%	100%	100%	De la Chapelle dysplasia, 256050 Atelosteogenesis, type II, 256050 Diastrophic dysplasia, broad bone-platyspondylic variant, 222600 Diastrophic dysplasia, 222600 Achondrogenesis Ib, 600972 Epiphyseal dysplasia, multiple, 4, 226900
<i>SLC26A3</i>	100%	99,50%	100%	100%	Diarrhea 1, secretory chloride, congenital, 214700
<i>SLC26A4</i>	100%	99,70%	100%	100%	Pendred syndrome, 274600 Deafness, autosomal recessive 4, with enlarged vestibular aqueduct, 600791
<i>SLC26A5</i>	99,10%	96,80%	100%	100%	?Deafness, autosomal recessive 61, 613865
<i>SLC27A4</i>	100%	99,80%	100%	100%	Ichthyosis prematurity syndrome, 608649
<i>SLC29A3</i>	100%	99,60%	100%	100%	Histiocytosis-lymphadenopathy plus syndrome, 602782
<i>SLC2A1</i>	92,80%	92,80%	100%	100%	Dystonia 9, 601042 GLUT1 deficiency syndrome 1, infantile onset, severe, 606777 Stomatin-deficient cryohydrocytosis with neurologic defects, 608885 GLUT1 deficiency syndrome 2, childhood onset, 612126
<i>SLC2A10</i>	97,70%	97,70%	100%	100%	Arterial tortuosity syndrome, 208050
<i>SLC2A2</i>	100%	100%	100%	100%	Fanconi-Bickel syndrome, 227810
<i>SLC2A9</i>	99,80%	96,10%	100%	100%	Hypouricemia, renal, 2, 612076
<i>SLC30A10</i>	100%	100%	100%	100%	Hypermanganesemia with dystonia 1, 613280
<i>SLC30A9</i>	98,80%	94,20%	100%	100%	?Birk-Landau-Perez syndrome, 617595
<i>SLC33A1</i>	99,90%	98,90%	100%	100%	Spastic paraplegia 42, autosomal dominant, 612539 Congenital cataracts, hearing loss, and neurodegeneration, 614482
<i>SLC34A1</i>	99,90%	99,10%	100%	100%	Nephrolithiasis/osteoporosis, hypophosphatemic, 1, 612286 Hypercalcemia, infantile, 2, 616963 ?Fanconi renotubular syndrome 2, 613388
<i>SLC34A2</i>	100%	100%	100%	100%	Pulmonary alveolar microlithiasis, 265100
<i>SLC34A3</i>	100%	99,40%	100%	100%	Hypophosphatemic rickets with hypercalciuria, 241530
<i>SLC35A1</i>	100%	99,70%	100%	100%	Congenital disorder of glycosylation, type IIf, 603585
<i>SLC35A3</i>	80,70%	78,60%	81,10%	81,00%	?Arthrogryposis, mental retardation, and seizures, 615553
<i>SLC35C1</i>	99,90%	98,70%	100%	100%	Congenital disorder of glycosylation, type IIC, 266265
<i>SLC35D1</i>	100%	97,70%	100%	100%	Schneckenbecken dysplasia, 269250
<i>SLC37A4</i>	100%	99,20%	100%	100%	Glycogen storage disease Ic, 232240 Glycogen storage disease Ib, 232220
<i>SLC38A8</i>	99,90%	97,30%	100%	100%	Foveal hypoplasia 2, with or without optic nerve misrouting and/or anterior segment dysgenesis, 609218
<i>SLC39A13</i>	99,80%	98,20%	100%	100%	Ehlers-Danlos syndrome, spondylodysplastic type, 3, 612350
<i>SLC39A14</i>	100%	99,40%	93,50%	93,50%	?Hyperostosis cranialis interna, 144755 Hypermanganesemia with dystonia 2, 617013

<i>SLC39A4</i>	99,50%	95,50%	100%	100%	Acrodermatitis enteropathica, 201100
<i>SLC39A8</i>	100%	99,70%	100%	100%	Congenital disorder of glycosylation, type II <sup>n</sup> , 616721
<i>SLC3A1</i>	100%	99,80%	96,60%	96,60%	Cystinuria, 220100
<i>SLC45A1</i>	100%	99,60%	100%	100%	Intellectual developmental disorder with neuropsychiatric features, 617532
<i>SLC45A2</i>	100%	99,90%	100%	100%	Albinism, oculocutaneous, type IV, 606574
<i>SLC46A1</i>	99,90%	98,50%	100%	100%	Folate malabsorption, hereditary, 229050
<i>SLC4A1</i>	100%	99,80%	96,10%	96,10%	Spherocytosis, type 4, 612653 Cryohydrocytosis, 185020 Ovalocytosis, SA type, 166900 Renal tubular acidosis, distal, AD, 179800 Renal tubular acidosis, distal, AR, 611590
<i>SLC4A11</i>	100%	99,90%	100%	100%	Corneal dystrophy, Fuchs endothelial, 4, 613268 Corneal endothelial dystrophy, autosomal recessive, 217700 Corneal endothelial dystrophy and perceptive deafness, 217400
<i>SLC4A4</i>	99,80%	99,20%	100%	100%	Renal tubular acidosis, proximal, with ocular abnormalities, 604278
<i>SLC52A2</i>	100%	100%	100%	100%	Brown-Vialetto-Van Laere syndrome 2, 614707
<i>SLC52A3</i>	100%	100%	100%	100%	Brown-Vialetto-Van Laere syndrome 1, 211530 ?Fazio-Londe disease, 211500
<i>SLC5A1</i>	100%	100%	100%	100%	Glucose/galactose malabsorption, 606824
<i>SLC5A2</i>	100%	100%	100%	100%	Renal glucosuria, 233100
<i>SLC5A5</i>	100%	99,80%	100%	100%	Thyroid dyshormonogenesis 1, 274400
<i>SLC5A7</i>	100%	99,90%	100%	100%	Neuronopathy, distal hereditary motor, type VIIA, 158580 Myasthenic syndrome, congenital, 20, presynaptic, 617143
<i>SLC6A17</i>	100%	100%	100%	100%	Mental retardation, autosomal recessive 48, 616269
<i>SLC6A19</i>	100%	100%	100%	100%	Iminoglycinuria, digenic, 242600 HEARTnup disorder, 234500 Hyperglycinuria, 138500
<i>SLC6A3</i>	100%	100%	100%	100%	Parkinsonism-dystonia, infantile, 1, 613135
<i>SLC6A5</i>	100%	100%	100%	100%	Hyperekplexia 3, 614618
<i>SLC6A9</i>	100%	100%	100%	100%	Glycine encephalopathy with normal serum glycine, 617301
<i>SLC7A14</i>	100%	100%	100%	100%	Retinitis pigmentosa 68, 615725
<i>SLC7A7</i>	100%	99,90%	100%	100%	Lysinuric protein intolerance, 222700
<i>SLC7A9</i>	100%	99,90%	100%	100%	Cystinuria, 220100
<i>SLC9A1</i>	100%	100%	100%	100%	?Lichtenstein-Knorr syndrome, 616291
<i>SLC9A3</i>	100%	99,70%	100%	99,90%	Diarrhea 8, secretory sodium, congenital, 616868
<i>SLCO2A1</i>	100%	99,40%	100%	100%	Hypertrophic osteoarthropathy, primary, autosomal recessive 2, 614441
<i>SLTRK6</i>	100%	100%	100%	100%	Deafness and myopia, 221200

<i>SLURP1</i>	100%	99,30%	100%	100%	Meleda disease, 248300
<i>SLX4</i>	100%	99,80%	100%	100%	Fanconi anemia, complementation group P, 613951
<i>SMARCAL1</i>	100%	99,90%	100%	100%	Schimke immunoosseous dysplasia, 242900
<i>SMARCD2</i>	87,00%	85,90%	99,60%	97,00%	Specific granule deficiency 2, 617475
<i>SMG9</i>	100%	100%	100%	100%	Heart and brain malformation syndrome, 616920
<i>SMN1</i>	99,50%	94,70%	94,60%	94,60%	Spinal muscular atrophy-2, 253550 Spinal muscular atrophy-3, 253400 Spinal muscular atrophy-1, 253300 Spinal muscular atrophy-4, 271150
<i>SMOC1</i>	99,90%	98,40%	100%	100%	Microphthalmia with limb anomalies, 206920
<i>SMOC2</i>	77,00%	76,70%	100%	100%	Dentin dysplasia, type I, with microdontia and misshapen teeth, 125400
<i>SMPD1</i>	100%	100%	100%	100%	Niemann-Pick disease, type A, 257200 Niemann-Pick disease, type B, 607616
<i>SMPD4</i>	99,40%	94,20%	100%	100%	Neurodevelopmental disorder with microcephaly, arthrogryposis, and structural brain anomalies, 618622
<i>SNAI2</i>	100%	99,10%	100%	100%	Waardenburg syndrome, type 2D, 608890 Piebaldism, 172800
<i>SNAP29</i>	100%	100%	100%	100%	Cerebral dysgenesis, neuropathy, ichthyosis, and palmoplantar keratoderma syndrome, 609528
<i>SNIP1</i>	98,90%	97,10%	100%	100%	Psychomotor retardation, epilepsy, and craniofacial dysmorphism, 614501
<i>SNORD11B</i>	NC	NC	NC	NC	Leukoencephalopathy, brain calcifications, and cysts, 614561
<i>SNX10</i>	96,20%	95,70%	100%	99,60%	Osteopetrosis, autosomal recessive 8, 615085
<i>SNX14</i>	99,60%	95,90%	100%	100%	Spinocerebellar ataxia, autosomal recessive 20, 616354
<i>SOBP</i>	97,50%	92,90%	97,00%	95,30%	Mental retardation, anterior maxillary protrusion, and strabismus, 613671
<i>SOD1</i>	100%	99,90%	100%	100%	Amyotrophic lateral sclerosis 1, 105400 Spastic tetraplegia and axial hypotonia, progressive, 618598
<i>SOST</i>	100%	99,50%	100%	100%	Sclerosteosis 1, 269500 Van Buchem disease, 239100 Craniodiaphyseal dysplasia, autosomal dominant, 122860
<i>SOX18</i>	70,70%	55,20%	96,10%	92,60%	Hypotrichosis-lymphedema-telangiectasia-renal defect syndrome, 137940 Hypotrichosis-lymphedema-telangiectasia syndrome, 607823
<i>SP110</i>	100%	100%	100%	100%	Hepatic venoocclusive disease with immunodeficiency, 235550
<i>SP7</i>	100%	99,80%	100%	100%	Osteogenesis imperfecta, type XII, 613849
<i>SPAG1</i>	99,30%	95,80%	99,90%	98,60%	Ciliary dyskinesia, primary, 28, 615505
<i>SPARC</i>	100%	100%	100%	100%	Osteogenesis imperfecta, type XVII, 616507
<i>SPART</i>	99,70%	96,80%	100%	100%	Troyer syndrome, 275900
<i>SPATA5</i>	100%	99,70%	100%	100%	Epilepsy, hearing loss, and mental retardation syndrome, 616577
<i>SPATA7</i>	99,80%	98,20%	100%	100%	Retinitis pigmentosa, juvenile, autosomal recessive, 604232 Leber congenital amaurosis 3, 604232

SPEG	96,40%	89,50%	99,70%	99,70%	Centronuclear myopathy 5, 615959
SPG11	100%	99,30%	100%	100%	Charcot-Marie-Tooth disease, axonal, type 2X, 616668 Spastic paraplegia 11, autosomal recessive, 604360 Amyotrophic lateral sclerosis 5, juvenile, 602099
SPG21	99,40%	96,80%	100%	100%	Mast syndrome, 248900
SPG7	94,90%	92,60%	100%	100%	Spastic paraplegia 7, autosomal recessive, 607259
SPINK5	99,90%	99,50%	100%	100%	Netherton syndrome, 256500
SPINT2	98,50%	83,80%	100%	100%	Diarrhea 3, secretory sodium, congenital, syndromic, 270420
SPNS2	92,10%	89,30%	97,60%	95,70%	?Deafness, autosomal recessive 115, 618457
SPR	99,80%	96,30%	100%	100%	Dystonia, dopa-responsive, due to sepiapterin reductase deficiency, 612716
SPRTN	100%	100%	100%	100%	Ruijs-Aalfs syndrome, 616200
SPTA1	99,90%	99,20%	100%	100%	Pyropoikilocytosis, 266140 Elliptocytosis-2, 130600 Spherocytosis, type 3, 270970
SPTB	100%	100%	100%	100%	Elliptocytosis-3, 617948 Spherocytosis, type 2, 616649 Anemia, neonatal hemolytic, fatal or near-fatal, 617948
SPTBN2	100%	99,30%	99,90%	99,90%	Spinocerebellar ataxia, autosomal recessive 14, 615386 Spinocerebellar ataxia 5, 600224
SPTBN4	97,30%	91,00%	100%	100%	Neurodevelopmental disorder with hypotonia, neuropathy, and deafness, 617519
SQSTM1	98,80%	95,50%	100%	100%	Frontotemporal dementia and/or amyotrophic lateral sclerosis 3, 616437 Neurodegeneration with ataxia, dystonia, and gaze palsy, childhood-onset, 617145 Myopathy, distal, with rimmed vacuoles, 617158 Paget disease of bone 3, 167250
SRD5A2	99,90%	99,00%	100%	100%	Pseudovaginal perineoscrotal hypospadias, 264600
SRD5A3	99,90%	99,10%	100%	100%	Kahrizi syndrome, 612713 Congenital disorder of glycosylation, type Iq, 612379
ST14	99,90%	98,60%	100%	100%	Ichthyosis, congenital, autosomal recessive 11, 602400
ST3GAL3	100%	99,80%	100%	100%	Mental retardation, autosomal recessive 12, 611090 ?Epileptic encephalopathy, early infantile, 15, 615006
ST3GAL5	85,00%	84,20%	98,70%	98,40%	Salt and pepper developmental regression syndrome, 609056
STAC3	100%	100%	100%	100%	Myopathy, congenital, Baily-Bloch, 255995
STAMBP	100%	99,40%	100%	100%	Microcephaly-capillary malformation syndrome, 614261
STAR	100%	100%	100%	100%	Lipoid adrenal hyperplasia, 201710
STAT1	99,90%	98,80%	100%	100%	Immunodeficiency 31C, autosomal dominant, 614162 Immunodeficiency 31A, mycobacteriosis, autosomal dominant, 614892 Immunodeficiency 31B, mycobacterial and viral infections, autosomal recessive, 613796
STAT2	100%	99,90%	100%	100%	Immunodeficiency 44, 616636

<i>STAT5B</i>	100%	98,50%	100%	100%	Leukemia, acute promyelocytic, somatic, 102578 Growth hormone insensitivity with immunodeficiency, 245590
<i>STIL</i>	100%	99,80%	100%	100%	Microcephaly 7, primary, autosomal recessive, 612703
<i>STIM1</i>	99,80%	98,00%	100%	100%	Myopathy, tubular aggregate, 1, 160565 Immunodeficiency 10, 612783 Stormorken syndrome, 185070
<i>STK4</i>	100%	99,80%	100%	100%	T-cell immunodeficiency, recurrent infections, autoimmunity, and cardiac malformations, 614868
<i>STN1</i>	100%	100%	100%	100%	Cerebroretinal microangiopathy with calcifications and cysts 2, 617341
<i>STRA6</i>	100%	99,80%	100%	100%	Microphthalmia, syndromic 9, 601186 Microphthalmia, isolated, with coloboma 8, 601186
<i>STRADA</i>	100%	98,90%	100%	100%	Polyhydramnios, megalencephaly, and symptomatic epilepsy, 611087
<i>STRC</i>	99,90%	98,00%	100%	100%	Deafness, autosomal recessive 16, 603720
<i>STT3A</i>	100%	100%	100%	100%	?Congenital disorder of glycosylation, type Iw, 615596
<i>STT3B</i>	100%	99,60%	100%	100%	?Congenital disorder of glycosylation, type Ix, 615597
<i>STUB1</i>	100%	98,70%	100%	100%	Spinocerebellar ataxia, autosomal recessive 16, 615768 ?Spinocerebellar ataxia 48, 618093
<i>STX11</i>	100%	100%	100%	100%	Hemophagocytic lymphohistiocytosis, familial, 4, 603552
<i>STXBP2</i>	82,10%	79,70%	99,30%	97,10%	Hemophagocytic lymphohistiocytosis, familial, 5, 613101
<i>SUCLA2</i>	94,30%	86,60%	100%	100%	Mitochondrial DNA depletion syndrome 5 (encephalomyopathic with or without methylmalonic aciduria), 612073
<i>SUCLG1</i>	99,90%	99,80%	100%	100%	Mitochondrial DNA depletion syndrome 9 (encephalomyopathic type with methylmalonic aciduria), 245400
<i>SUFU</i>	100%	100%	100%	100%	Basal cell nevus syndrome, 109400 Medulloblastoma, desmoplastic, 155255 Joubert syndrome 32, 617757
<i>SULT2B1</i>	100%	100%	100%	100%	Ichthyosis, congenital, autosomal recessive 14, 617571
<i>SUMF1</i>	97,50%	90,80%	100%	100%	Multiple sulfatase deficiency, 272200
<i>SUOX</i>	100%	100%	100%	100%	Sulfite oxidase deficiency, 272300
<i>SURF1</i>	89,40%	88,20%	100%	100%	Leigh syndrome, due to COX IV deficiency, 256000 Charcot-Marie-Tooth disease, type 4K, 616684
<i>SVBP</i>	100%	100%	100%	100%	Neurodevelopmental disorder with ataxia, hypotonia, and microcephaly, 618569
<i>SYNE1</i>	98,30%	98,00%	98,80%	98,80%	Spinocerebellar ataxia, autosomal recessive 8, 610743 Arthrogryposis multiplex congenita, myogenic type, 618484 Emery-Dreifuss muscular dystrophy 4, autosomal dominant, 612998
<i>SYNE4</i>	99,70%	97,00%	100%	100%	Deafness, autosomal recessive 76, 615540
<i>SYNJ1</i>	99,90%	99,40%	100%	100%	Epileptic encephalopathy, early infantile, 53, 617389 Parkinson disease 20, early-onset, 615530
<i>SYT14</i>	61,90%	58,90%	95,90%	95,90%	?Spinocerebellar ataxia, autosomal recessive 11, 614229

SZT2	99,60%	99,50%	100%	99,90%	Epileptic encephalopathy, early infantile, 18, 615476
T	99,40%	96,90%	100%	100%	Sacral agenesis with vertebral anomalies, 615709
TBC1D24	100%	100%	100%	100%	Epilepsy, rolandic, with proxysmal exercise-induce dystonia and writer's cramp, 608105 DOORS syndrome, 220500 Deafness, autosomal dominant 65, 616044 Epileptic encephalopathy, early infantile, 16, 615338 Myoclonic epilepsy, infantile, familial, 605021 Deafness , autosomal recessive 86, 614617
TBC1D7	100%	99,30%	100%	100%	Macrocephaly/megalencephaly syndrome, autosomal recessive, 248000
TBCD	96,20%	94,40%	100%	100%	Encephalopathy, progressive, early-onset, with brain atrophy and thin corpus callosum, 617193
TBCE	99,80%	97,30%	100%	100%	Kenny-Caffey syndrome, type 1, 244460 Hypoparathyroidism-retardation-dysmorphism syndrome, 241410 Encephalopathy, progressive, with amyotrophy and optic atrophy, 617207
TBCK	99,10%	96,80%	100%	100%	Hypotonia, infantile, with psychomotor retardation and characteristic facies 3, 616900
TBX15	100%	99,90%	100%	100%	Cousin syndrome, 260660
TBX19	100%	100%	100%	100%	Adrenocorticotropic hormone deficiency, 201400
TBX6	99,50%	95,40%	100%	100%	Spondylocostal dysostosis 5, 122600
TBXAS1	100%	100%	100%	100%	Ghosal hematodiaphyseal syndrome, 231095
TCAP	100%	100%	100%	100%	Cardiomyopathy, hypertrophic, 25, 607487 Muscular dystrophy, limb-girdle, autosomal recessive 7, 601954
TCIRG1	97,60%	90,10%	100%	100%	Osteopetrosis, autosomal recessive 1, 259700
TCN2	100%	100%	100%	100%	Transcobalamin II deficiency, 275350
TCTEX1D2	100%	100%	100%	100%	Short-rib thoracic dysplasia 17 with or without polydactyly, 617405
TCTN1	96,70%	93,00%	94,70%	94,70%	Joubert syndrome 13, 614173
TCTN2	100%	99,50%	100%	100%	Joubert syndrome 24, 616654 ?Meckel syndrome 8, 613885
TCTN3	100%	100%	100%	100%	Orofaciodigital syndrome IV, 258860 Joubert syndrome 18, 614815
TDP1	99,90%	99,50%	100%	100%	?Spinocerebellar ataxia, autosomal recessive, with axonal neuropathy 1, 607250
TDP2	100%	99,40%	100%	100%	Spinocerebellar ataxia, autosomal recessive 23, 616949
TDRD7	99,90%	99,10%	100%	100%	Cataract 36, 613887
TECPR2	100%	100%	100%	100%	Spastic paraplegia 49, autosomal recessive, 615031
TECR	100%	98,90%	100%	100%	Mental retardation, autosomal recessive 14, 614020
TECRL	96,30%	89,30%	100%	100%	Ventricular tachycardia, catecholaminergic polymorphic, 3, 614021
TECTA	100%	99,90%	100%	100%	Deafness, autosomal dominant 8/12, 601543 Deafness, autosomal recessive 21, 603629
TELO2	99,70%	96,20%	100%	100%	You-Hoover-Fong syndrome, 616954

<i>TENM3</i>	100%	99,70%	100%	100%	Microphthalmia, syndromic 15, 615145 ?Microphthalmia, isolated, with coloboma 9, 615145
<i>TF</i>	100%	100%	100%	100%	Atransferrinemia, 209300
<i>TFAM</i>	97,50%	83,50%	100%	100%	?Mitochondrial DNA depletion syndrome 15 (hepatocerebral type), 617156
<i>TFG</i>	96,90%	96,30%	100%	100%	?Spastic paraparesis 57, autosomal recessive, 615658 Hereditary motor and sensory neuropathy, Okinawa type, 604484
<i>TFR2</i>	99,10%	97,80%	100%	100%	Hemochromatosis, type 3, 604250
<i>TFRC</i>	100%	99,80%	100%	100%	Immunodeficiency 46, 616740
<i>TG</i>	100%	99,40%	100%	100%	Thyroid dyshormonogenesis 3, 274700
<i>TGDS</i>	99,40%	96,80%	100%	100%	Catel-Manzke syndrome, 616145
<i>TGFB1</i>	100%	99,90%	100%	100%	Camurati-Engelmann disease, 131300 Inflammatory bowel disease, immunodeficiency, and encephalopathy, 618213
<i>TGM1</i>	100%	99,90%	100%	100%	Ichthyosis, congenital, autosomal recessive 1, 242300
<i>TGM5</i>	100%	99,70%	100%	100%	Peeling skin syndrome 2, 609796
<i>TH</i>	99,30%	96,10%	100%	100%	Segawa syndrome, recessive, 605407
<i>THOC6</i>	100%	100%	100%	100%	Beaulieu-Boycott-Innes syndrome, 613680
<i>THR</i> B	100%	99,70%	100%	100%	Thyroid hormone resistance, 188570 Thyroid hormone resistance, selective pituitary, 145650 Thyroid hormone resistance, autosomal recessive, 274300
<i>TIMM50</i>	98,30%	94,40%	100%	100%	3-methylglutaconic aciduria, type IX, 617698
<i>TIMMD</i> C1	100%	100%	100%	100%	Mitochondrial complex I deficiency, nuclear type 31, 618251
<i>TJP</i> 2	94,00%	93,60%	100%	100%	Hypercholanemia, familial, 607748 Cholestasis, progressive familial intrahepatic 4, 615878
<i>TK</i> 2	99,20%	96,30%	100%	100%	Mitochondrial DNA depletion syndrome 2 (myopathic type), 609560 ?Progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal recessive 3, 617069
<i>TKT</i>	98,70%	97,80%	98,70%	98,70%	Short stature, developmental delay, and congenital heart defects, 617044
<i>TLE</i> 6	100%	98,80%	100%	100%	Preimplantation embryonic lethality, 616814
<i>TMC</i> 1	99,70%	97,10%	100%	100%	Deafness, autosomal recessive 7, 600974 Deafness, autosomal dominant 36, 606705
<i>TMC</i> 6	100%	99,30%	100%	100%	Epidermolytic hyperkeratosis, 226400
<i>TMC</i> 8	100%	98,70%	100%	100%	Epidermolytic hyperkeratosis 2, 618231
<i>TMC</i> O1	88,00%	87,40%	88,00%	88,00%	Craniofacial dysmorphisms, skeletal anomalies, and mental retardation syndrome, 213980
<i>TMEM</i> 107	100%	100%	100%	100%	Orofaciodigital syndrome XVI, 617563 Meckel syndrome 13, 617562 ?Joubert syndrome 29, 617562
<i>TMEM</i> 126A	96,30%	84,40%	100%	100%	Optic atrophy 7, 612989
<i>TMEM</i> 126B	99,80%	97,40%	100%	100%	Mitochondrial complex I deficiency, nuclear type 29, 618250

<i>TMEM132E</i>	96,90%	93,50%	100%	100%	?Deafness, autosomal recessive 99, 618481
<i>TMEM138</i>	100%	99,10%	100%	100%	Joubert syndrome 16, 614465
<i>TMEM165</i>	100%	100%	100%	100%	Congenital disorder of glycosylation, type IIk, 614727
<i>TMEM199</i>	100%	99,90%	100%	100%	Congenital disorder of glycosylation, type IIP, 616829
<i>TMEM216</i>	99,90%	98,10%	100%	100%	Meckel syndrome 2, 603194 Joubert syndrome 2, 608091
<i>TMEM231</i>	100%	99,60%	100%	100%	Meckel syndrome 11, 615397 Joubert syndrome 20, 614970
<i>TMEM237</i>	100%	99,90%	100%	100%	Joubert syndrome 14, 614424
<i>TMEM260</i>	97,50%	93,40%	100%	100%	Structural heart defects and renal anomalies syndrome, 617478
<i>TMEM38B</i>	100%	99,90%	100%	100%	Osteogenesis imperfecta, type XIV, 615066
<i>TMEM5</i>	99,50%	96,80%	100%	99,90%	Muscular dystrophy-dystroglycanopathy (congenital with brain and eye anomalies), type A, 10, 615041
<i>TMEM67</i>	99,50%	95,00%	100%	99,90%	Meckel syndrome 3, 607361 ?RHYNS syndrome, 602152 Nephronophthisis 11, 613550 COACH syndrome, 216360 Joubert syndrome 6, 610688
<i>TMEM70</i>	98,00%	93,90%	100%	100%	Mitochondrial complex V (ATP synthase) deficiency, nuclear type 2, 614052
<i>TMEM94</i>	100%	100%	100%	100%	Intellectual developmental disorder with cardiac defects and dysmorphic facies, 618316
<i>TMIE</i>	99,20%	95,10%	100%	100%	Deafness, autosomal recessive 6, 600971
<i>TMPRSS15</i>	98,50%	95,20%	100%	100%	Enterokinase deficiency, 226200
<i>TMPRSS3</i>	100%	99,90%	100%	100%	Deafness, autosomal recessive 8/10, 601072
<i>TMPRSS6</i>	99,90%	99,10%	100%	100%	Iron-refractory iron deficiency anemia, 206200
<i>TMTC3</i>	99,60%	96,50%	100%	100%	Lissencephaly 8, 617255
<i>TNFRSF11A</i>	94,60%	93,30%	99,20%	98,00%	Osteolysis, familial expansile, 174810 Osteopetrosis, autosomal recessive 7, 612301
<i>TNFRSF11B</i>	100%	100%	100%	100%	Paget disease of bone 5, juvenile-onset, 239000
<i>TNFRSF13B</i>	100%	100%	100%	100%	Immunoglobulin A deficiency 2, 609529 Immunodeficiency, common variable, 2, 240500
<i>TNFRSF13C</i>	80,10%	75,40%	100%	99,90%	Immunodeficiency, common variable, 4, 613494
<i>TNFRSF4</i>	99,40%	95,40%	100%	100%	?Immunodeficiency 16, 615593
<i>TNFSF11</i>	100%	99,90%	100%	100%	Osteopetrosis, autosomal recessive 2, 259710
<i>TNIK</i>	100%	99,30%	100%	100%	Mental retardation, autosomal recessive 54, 617028
<i>TNNI3</i>	99,70%	95,20%	100%	100%	Cardiomyopathy, hypertrophic, 7, 613690 ?Cardiomyopathy, dilated, 2A, 611880 Cardiomyopathy, dilated, 1FF, 613286 Cardiomyopathy, familial restrictive, 1, 115210

<i>TNNT1</i>	99,90%	97,60%	100%	100%	Nemaline myopathy 5, Amish type, 605355
<i>TNXB</i>	99,60%	95,10%	100%	100%	Ehlers-Danlos syndrome, classic-like, 1, 606408 Vesicoureteral reflux 8, 615963
<i>TOE1</i>	100%	100%	100%	100%	Pontocerebellar hypoplasia, type 7, 614969
<i>TONSL</i>	99,80%	97,80%	100%	100%	Spondyloepimetaphyseal dysplasia, sponastrime type, 271510
<i>TOP3A</i>	100%	98,70%	100%	100%	Microcephaly, growth restriction, and increased sister chromatid exchange 2, 618097 ?Progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal recessive 5, 618098
<i>TOR1AIP1</i>	99,90%	98,00%	100%	100%	?Muscular dystrophy, autosomal recessive, with rigid spine and distal joint contractures, 617072
<i>TP53RK</i>	92,50%	79,60%	100%	100%	Galloway-Mowat syndrome 4, 617730
<i>TPI1</i>	99,80%	97,50%	100%	100%	Hemolytic anemia due to triosephosphate isomerase deficiency, 615512
<i>TPK1</i>	99,80%	99,00%	100%	100%	Thiamine metabolism dysfunction syndrome 5 (episodic encephalopathy type), 614458
<i>TPM3</i>	89,20%	87,20%	100%	100%	CAP myopathy 1, 609284 Nemaline myopathy 1, autosomal dominant or recessive, 609284 Myopathy, congenital, with fiber-type disproportion, 255310
<i>TPO</i>	99,90%	98,20%	100%	100%	Thyroid dyshormonogenesis 2A, 274500
<i>TPP1</i>	100%	100%	100%	100%	Spinocerebellar ataxia, autosomal recessive 7, 609270 Ceroid lipofuscinosi, neuronal, 2, 204500
<i>TPRKB</i>	81,10%	75,90%	81,90%	81,90%	Galloway-Mowat syndrome 5, 617731
<i>TPRN</i>	87,90%	79,30%	94,40%	89,80%	Deafness, autosomal recessive 79, 613307
<i>TRAC</i>	100%	100%	100%	100%	Immunodeficiency 7, TCR-alpha/beta deficient, 615387
<i>TRAF3IP1</i>	99,60%	97,60%	100%	100%	Senior-Loken syndrome 9, 616629
<i>TRAIP</i>	100%	100%	100%	100%	Seckel syndrome 9, 616777
<i>TRAK1</i>	100%	99,60%	100%	100%	Epileptic encephalopathy, early infantile, 68, 618201
<i>TRAPP C11</i>	100%	99,20%	100%	100%	Muscular dystrophy, limb-girdle, autosomal recessive 18, 615356
<i>TRAPP C12</i>	100%	99,60%	100%	100%	Encephalopathy, progressive, early-onset, with brain atrophy and spasticity, 617669
<i>TRAPP C2L</i>	100%	100%	100%	100%	Encephalopathy, progressive, early-onset, with episodic rhabdomyolysis, 618331
<i>TRAPP C6B</i>	99,90%	98,00%	100%	100%	Neurodevelopmental disorder with microcephaly, epilepsy, and brain atrophy, 617862
<i>TRAPP C9</i>	100%	99,60%	100%	100%	Mental retardation, autosomal recessive 13, 613192
<i>TRDN</i>	96,20%	86,60%	100%	100%	Ventricular tachycardia, catecholaminergic polymorphic, 5, with or without muscle weakness, 615441
<i>TREM2</i>	100%	99,80%	100%	100%	Polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy 2, 618193
<i>TREX1</i>	100%	100%	100%	100%	Vasculopathy, retinal, with cerebral leukodystrophy, 192315 Aicardi-Goutieres syndrome 1, dominant and recessive, 225750 Chilblain lupus, 610448
<i>TRH</i>	99,60%	96,50%	100%	100%	No OMIM disease ID
<i>TRIM2</i>	93,90%	93,30%	93,90%	93,90%	Charcot-Marie-Tooth disease, type 2R, 615490
<i>TRIM32</i>	100%	100%	100%	100%	?Bardet-Biedl syndrome 11, 615988 Muscular dystrophy, limb-girdle, autosomal recessive 8, 254110

<i>TRIM36</i>	100%	99,20%	100%	100%	?Anencephaly, 206500
<i>TRIM37</i>	98,60%	98,10%	98,70%	98,70%	Milibrey nanism, 253250
<i>TRIOBP</i>	97,80%	96,10%	99,90%	99,60%	Deafness, autosomal recessive 28, 609823
<i>TRIP11</i>	98,40%	94,00%		100%	Osteochondrodysplasia, 184260 Achondrogenesis, type IA, 200600
<i>TRIP13</i>	100%	100%	100%	100%	Mosaic variegated aneuploidy syndrome 3, 617598
<i>TRIP4</i>	100%	99,10%		100%	Spinal muscular atrophy with congenital bone fractures 1, 616866 ?Muscular dystrophy, congenital, Davignon-Chauveau type, 617066
<i>TRIT1</i>	100%	100%	100%	100%	Combined oxidative phosphorylation deficiency 35, 617873
<i>TRMT1</i>	99,40%	96,20%	100%	100%	Mental retardation, autosomal recessive 68, 618302
<i>TRMT10A</i>	100%	99,70%	100%	100%	Microcephaly, short stature, and impaired glucose metabolism 1, 616033
<i>TRMT10C</i>	100%	100%	100%	99,90%	Combined oxidative phosphorylation deficiency 30, 616974
<i>TRMT5</i>	100%	99,30%	100%	100%	Combined oxidative phosphorylation deficiency 26, 616539
<i>TRMU</i>	100%	100%	100%	99,90%	Liver failure, transient infantile, 613070
<i>TRNT1</i>	99,50%	96,50%		100%	Sideroblastic anemia with B-cell immunodeficiency, periodic fevers, and developmental delay, 616084 Retinitis pigmentosa and erythrocytic microcytosis, 616959
<i>TRPM1</i>	100%	99,80%	100%	100%	Night blindness, congenital stationary (complete), 1C, autosomal recessive, 613216
<i>TRPM6</i>	99,90%	99,50%	100%	100%	Hypomagnesemia 1, intestinal, 602014
<i>TSEN15</i>	99,80%	97,50%	100%	100%	Pontocerebellar hypoplasia, type 2F, 617026
<i>TSEN2</i>	100%	99,60%	100%	100%	Pontocerebellar hypoplasia type 2B, 612389
<i>TSEN34</i>	90,80%	86,40%	100%	100%	?Pontocerebellar hypoplasia type 2C, 612390
<i>TSEN54</i>	96,30%	94,30%	99,90%	98,90%	Pontocerebellar hypoplasia type 4, 225753 Pontocerebellar hypoplasia type 2A, 277470 ?Pontocerebellar hypoplasia type 5, 610204
<i>TSFM</i>	100%	99,50%	94,90%	94,90%	Combined oxidative phosphorylation deficiency 3, 610505
<i>TSHB</i>	100%	100%	100%	100%	Hypothyroidism, congenital, nongoitrous 4, 275100
<i>TSHR</i>	99,90%	99,30%		100%	Hyperthyroidism, nonautoimmune, 609152 Hypothyroidism, congenital, nongoitrous, 1, 275200 Hyperthyroidism, familial gestational, 603373 Thyroid adenoma, hyperfunctioning, somatic, 0 Thyroid carcinoma with thyrotoxicosis, 0
<i>TSPAN12</i>	100%	99,80%	100%	100%	Exudative vitreoretinopathy 5, 613310
<i>TSPEAR</i>	100%	99,20%	97,90%	97,90%	Ectodermal dysplasia 14, hair/tooth type with or without hypohidrosis, 618180 ?Deafness, autosomal recessive 98, 614861
<i>TSPYL1</i>	100%	100%	100%	100%	Sudden infant death with dysgenesis of the testes syndrome, 608800
<i>TTC19</i>	81,50%	73,80%	100%	99,20%	Mitochondrial complex III deficiency, nuclear type 2, 615157

<i>TTC21B</i>	99,90%	99,30%	100%	100%	Nephronophthisis 12, 613820 Short-rib thoracic dysplasia 4 with or without polydactyly, 613819
<i>TTC25</i>	100%	100%	100%	100%	Ciliary dyskinesia, primary, 35, 617092
<i>TTC37</i>	100%	99,30%	100%	100%	Trichohepatoenteric syndrome 1, 222470
<i>TTC7A</i>	99,30%	95,40%	100%	100%	Gastrointestinal defects and immunodeficiency syndrome, 243150
<i>TTC8</i>	99,60%	98,10%	100%	100%	Bardet-Biedl syndrome 8, 615985 ?Retinitis pigmentosa 51, 613464
<i>TTI2</i>	100%	100%	100%	100%	Mental retardation, autosomal recessive 39, 615541
<i>TTLL5</i>	100%	99,70%	100%	100%	Cone-rod dystrophy 19, 615860
<i>TTPA</i>	94,70%	87,10%	100%	100%	Ataxia with isolated vitamin E deficiency, 277460
<i>TUB</i>	99,40%	97,10%	100%	100%	?Retinal dystrophy and obesity, 616188
<i>TUBA8</i>	99,90%	99,50%	100%	100%	Cortical dysplasia, complex, with other brain malformations 8, 613180
<i>TUBGCP4</i>	99,20%	96,40%	100%	100%	Microcephaly and chorioretinopathy, autosomal recessive, 3, 616335
<i>TUBGCP6</i>	100%	99,30%	100%	100%	Microcephaly and chorioretinopathy, autosomal recessive, 1, 251270
<i>TUFM</i>	100%	99,00%	100%	100%	Combined oxidative phosphorylation deficiency 4, 610678
<i>TULP1</i>	100%	99,50%	100%	100%	Retinitis pigmentosa 14, 600132 Leber congenital amaurosis 15, 613843
<i>TUSC3</i>	100%	99,50%	100%	100%	Mental retardation, autosomal recessive 7, 611093
<i>TWIST2</i>	100%	100%	100%	100%	Barber-Say syndrome, 209885 Ablepharon-macrostomia syndrome, 200110 Focal facial dermal dysplasia 3, Setleis type, 227260
<i>TWNK</i>	100%	100%	100%	100%	Mitochondrial DNA depletion syndrome 7 (hepatocerebral type), 271245 Progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal dominant 3, 609286 Perrault syndrome 5, 616138
<i>TXN2</i>	100%	100%	100%	100%	?Combined oxidative phosphorylation deficiency 29, 616811
<i>TXNL4A</i>	100%	99,40%	100%	100%	Burn-McKeown syndrome, 608572
<i>TYK2</i>	99,90%	99,00%	100%	100%	Immunodeficiency 35, 611521
<i>TYMP</i>	100%	97,00%	100%	100%	Mitochondrial DNA depletion syndrome 1 (MNGIE type), 603041
<i>TYR</i>	100%	100%	100%	100%	Waardenburg syndrome/albinism, digenic, 103470 Albinism, oculocutaneous, type IB, 606952 Albinism, oculocutaneous, type IA, 203100
<i>TYROBP</i>	100%	100%	100%	100%	Polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy 1, 221770
<i>TYRP1</i>	100%	99,80%	100%	100%	Albinism, oculocutaneous, type III, 203290
<i>UBA5</i>	97,80%	86,80%	100%	100%	?Spinocerebellar ataxia, autosomal recessive 24, 617133 Epileptic encephalopathy, early infantile, 44, 617132
<i>UBE2T</i>	100%	99,90%	100%	100%	Fanconi anemia, complementation group T, 616435
<i>UBE3B</i>	100%	99,90%	100%	100%	Kaufman oculocerebrofacial syndrome, 244450

<i>UBR1</i>	99,90%	99,10%	98,00%	98,00%	Johanson-Blizzard syndrome, 243800
<i>UCHL1</i>	99,80%	92,50%	100%	100%	Spastic paraplegia 79, autosomal recessive, 615491
<i>UFC1</i>	100%	100%	100%	100%	Neurodevelopmental disorder with spasticity and poor growth, 618076
<i>UFM1</i>	74,00%	69,40%	100%	100%	Leukodystrophy, hypomyelinating, 14, 617899
<i>UGT1A1</i>	100%	100%	100%	100%	Hyperbilirubinemia, familial transient neonatal, 237900 Crigler-Najjar syndrome, type I, 218800 Crigler-Najjar syndrome, type II, 606785
<i>UMPS</i>	100%	99,40%	97,00%	97,00%	Orotic aciduria, 258900
<i>UNC13D</i>	99,70%	98,10%	100%	100%	Hemophagocytic lymphohistiocytosis, familial, 3, 608898
<i>UNC80</i>	100%	99,50%	100%	100%	Hypotonia, infantile, with psychomotor retardation and characteristic facies 2, 616801
<i>UNG</i>	100%	98,80%	99,90%	99,30%	Immunodeficiency with hyper IgM, type 5, 608106
<i>UPB1</i>	100%	100%	100%	100%	Beta-ureidopropionase deficiency, 613161
<i>UQCC2</i>	100%	99,70%	100%	100%	Mitochondrial complex III deficiency, nuclear type 7, 615824
<i>UQCC3</i>	100%	98,70%	100%	100%	?Mitochondrial complex III deficiency, nuclear type 9, 616111
<i>UQCRB</i>	99,40%	95,10%	100%	100%	Mitochondrial complex III deficiency, nuclear type 3, 615158
<i>UQCRC2</i>	99,90%	99,30%	100%	100%	Mitochondrial complex III deficiency, nuclear type 5, 615160
<i>UQCRCQ</i>	100%	100%	100%	100%	Mitochondrial complex III deficiency, nuclear type 4, 615159
<i>UROC1</i>	100%	100%	100%	100%	?Urocanase deficiency, 276880
<i>UROD</i>	98,90%	96,10%	100%	100%	Porphyria, hepatoerythropoietic, 176100 Porphyria cutanea tarda, 176100
<i>UROS</i>	100%	99,90%	100%	100%	Porphyria, congenital erythropoietic, 263700
<i>USB1</i>	100%	99,40%	100%	100%	Poikiloderma with neutropenia, 604173
<i>USH1C</i>	100%	99,80%	100%	100%	Deafness, autosomal recessive 18A, 602092 Usher syndrome, type 1C, 276904
<i>USH1G</i>	99,60%	97,90%	100%	100%	Usher syndrome, type 1G, 606943
<i>USH2A</i>	100%	99,80%	100%	100%	Retinitis pigmentosa 39, 613809 Usher syndrome, type 2A, 276901
<i>USP18</i>	95,90%	95,90%	100%	100%	Pseudo-TORCH syndrome 2, 617397
<i>USP45</i>	99,60%	98,10%	100%	100%	?Leber congenital amaurosis 19, 618513
<i>UVSSA</i>	99,30%	98,80%	99,40%	99,30%	UV-sensitive syndrome 3, 614640
<i>VAC14</i>	99,90%	98,50%	100%	100%	Striatonigral degeneration, childhood-onset, 617054
<i>VAMP1</i>	100%	100%	100%	100%	Spastic ataxia 1, autosomal dominant, 108600 Myasthenic syndrome, congenital, 25, 618323
<i>VARS</i>	100%	99,90%	100%	100%	Neurodevelopmental disorder with microcephaly, seizures, and cortical atrophy, 617802
<i>VARS2</i>	100%	99,40%	100%	100%	Combined oxidative phosphorylation deficiency 20, 615917
<i>VAX1</i>	97,50%	91,50%	95,70%	91,70%	?Microphthalmia, syndromic 11, 614402
<i>VDR</i>	99,90%	99,00%	100%	100%	Rickets, vitamin D-resistant, type IIA, 277440

VHL	96,30%	91,40%	100%	100%	Pheochromocytoma, 171300 Erythrocytosis, familial, 2, 263400 von Hippel-Lindau syndrome, 193300 Renal cell carcinoma, somatic, 144700 Hemangioblastoma, cerebellar, somatic, 0
VIPAS39	100%	100%	100%	100%	Arthrogryposis, renal dysfunction, and cholestasis 2, 613404
VKORC1	100%	100%	93,00%	93,00%	Warfarin resistance, 122700 Vitamin K-dependent clotting factors, combined deficiency of, 2, 607473
VLDLR	100%	99,80%	100%	100%	Cerebellar hypoplasia and mental retardation with or without quadrupedal locomotion 1, 224050
VPS11	94,90%	93,60%	100%	100%	Leukodystrophy, hypomyelinating, 12, 616683
VPS13A	99,40%	95,60%	100%	100%	Choreoacanthocytosis, 200150
VPS13B	99,50%	98,20%	99,50%	99,40%	Cohen syndrome, 216550
VPS13C	99,40%	96,90%	100%	100%	Parkinson disease 23, autosomal recessive, early onset, 616840
VPS13D	100%	99,70%	100%	100%	Spinocerebellar ataxia, autosomal recessive 4, 607317
VPS33A	97,30%	95,70%	95,80%	95,80%	Mucopolysaccharidoses-plus syndrome, 617303
VPS33B	100%	100%	100%	100%	Arthrogryposis, renal dysfunction, and cholestasis 1, 208085
VPS37A	91,30%	78,20%	100%	100%	Spastic paraplegia 53, autosomal recessive, 614898
VPS45	99,20%	95,60%	95,10%	95,10%	Neutropenia, severe congenital, 5, autosomal recessive, 615285
VPS51	95,00%	83,20%	100%	100%	Pontocerebellar hypoplasia, type 13, 618606
VPS53	91,50%	90,70%	100%	99,30%	Pontocerebellar hypoplasia, type 2E, 615851
VRK1	99,70%	98,50%	100%	100%	Pontocerebellar hypoplasia type 1A, 607596
VSX2	100%	99,30%	100%	100%	Microphthalmia with coloboma 3, 610092 Microphthalmia, isolated 2, 610093
VWA3B	100%	99,70%	100%	100%	?Spinocerebellar ataxia, autosomal recessive 22, 616948
VWF	99,80%	98,60%	100%	100%	von Willebrand disease, type 1, 193400 von Willebrand disease, types 2A, 2B, 2M, and 2N, 613554 von Willibrand disease, type 3, 277480
WARS2	100%	99,40%	100%	100%	Neurodevelopmental disorder, mitochondrial, with abnormal movements and lactic acidosis, with or without seizures, 617710
WASHC4	99,10%	95,50%	100%	100%	?Mental retardation, autosomal recessive 43, 615817
WASHC5	100%	99,80%	100%	100%	Ritscher-Schinzel syndrome 1, 220210 Spastic paraplegia 8, autosomal dominant, 603563
WBP2	100%	99,70%	100%	100%	Deafness, autosomal recessive 107, 617639
WDPCP	98,20%	94,40%	98,10%	98,10%	?Bardet-Biedl syndrome 15, 615992 ?Congenital heart defects, hamartomas of tongue, and polysyndactyly, 217085
WDR19	100%	99,40%	100%	100%	Nephronophthisis 13, 614377 Senior-Loken syndrome 8, 616307

					?Cranioectodermal dysplasia 4, 614378 ?Short-rib thoracic dysplasia 5 with or without polydactyly, 614376
<i>WDR34</i>	100%	99,60%	100%	100%	Short-rib thoracic dysplasia 11 with or without polydactyly, 615633
<i>WDR35</i>	99,80%	98,90%	100%	100%	Short-rib thoracic dysplasia 7 with or without polydactyly, 614091 Cranioectodermal dysplasia 2, 613610
<i>WDR4</i>	100%	100%	100%	100%	Microcephaly, growth deficiency, seizures, and brain malformations, 618346 Galloway-Mowat syndrome 6, 618347
<i>WDR45B</i>	98,00%	89,20%	100%	100%	Neurodevelopmental disorder with spastic quadriplegia and brain abnormalities with or without seizures, 617977
<i>WDR60</i>	99,50%	97,00%	100%	100%	Short-rib thoracic dysplasia 8 with or without polydactyly, 615503
<i>WDR62</i>	100%	99,50%	100%	100%	Microcephaly 2, primary, autosomal recessive, with or without cortical malformations, 604317
<i>WDR72</i>	96,80%	96,40%	96,90%	96,90%	Amelogenesis imperfecta, type IIA3, 613211
<i>WDR73</i>	100%	100%	100%	100%	Galloway-Mowat syndrome 1, 251300
<i>WDR81</i>	100%	100%	100%	100%	Hydrocephalus, congenital, 3, with brain anomalies, 617967 Cerebellar ataxia, mental retardation, and dysequilibrium syndrome 2, 610185
<i>WEE2</i>	100%	99,60%	100%	100%	Oocyte maturation defect 5, 617996
<i>WFS1</i>	100%	99,90%	100%	100%	?Cataract 41, 116400 Deafness, autosomal dominant 6/14/38, 600965 Wolfram-like syndrome, autosomal dominant, 614296 Wolfram syndrome 1, 222300
<i>WHRN</i>	99,80%	98,10%	100%	100%	Deafness, autosomal recessive 31, 607084 Usher syndrome, type 2D, 611383
<i>WIPF1</i>	100%	99,90%	100%	100%	?Wiskott-Aldrich syndrome 2, 614493
<i>WIPI2</i>	100%	99,30%	100%	100%	?Intellectual developmental disorder with short stature and variable skeletal anomalies, 618453
<i>WISP3</i>	100%	100%	100%	100%	Spondyloepiphyseal dysplasia tarda with progressive arthropathy, 208230 Arthropathy, progressive pseudorheumatoid, of childhood, 208230
<i>WNK1</i>	99,90%	99,60%	100%	100%	Pseudohypoaldosteronism, type IIC, 614492 Neuropathy, hereditary sensory and autonomic, type II, 201300
<i>WNT1</i>	99,30%	95,30%	100%	100%	Osteogenesis imperfecta, type XV, 615220
<i>WNT10A</i>	100%	99,40%	100%	100%	Schopf-Schulz-Passarge syndrome, 224750 Tooth agenesis, selective, 4, 150400 Odontoonychodermal dysplasia, 257980
<i>WNT10B</i>	100%	99,40%	100%	100%	Split-hand/foot malformation 6, 225300 Tooth agenesis, selective, 8, 617073
<i>WNT3</i>	100%	99,60%	100%	100%	?Tetra-amelia syndrome 1, 273395
<i>WNT4</i>	99,10%	94,80%	98,90%	96,20%	?SERKAL syndrome, 611812 Mullerian aplasia and hyperandrogenism, 158330

<i>WNT7A</i>	100%	100%	100%	100%	Fuhrmann syndrome, 228930 Ulna and fibula, absence of, with severe limb deficiency, 276820
<i>WRAP53</i>	100%	100%	100%	100%	Dyskeratosis congenita, autosomal recessive 3, 613988
<i>WRN</i>	99,90%	98,80%	100%	100%	Werner syndrome, 277700
<i>WWOX</i>	100%	100%	100%	100%	Esophageal squamous cell carcinoma, somatic, 133239 Spinocerebellar ataxia, autosomal recessive 12, 614322 Epileptic encephalopathy, early infantile, 28, 616211
<i>XDH</i>	100%	99,90%	100%	100%	Xanthinuria, type I, 278300
<i>XPA</i>	99,60%	95,60%	100%	100%	Xeroderma pigmentosum, group A, 278700
<i>XPC</i>	100%	100%	100%	100%	Xeroderma pigmentosum, group C, 278720
<i>XPNPEP3</i>	100%	100%	100%	100%	Nephronophthisis-like nephropathy 1, 613159
<i>XRCC1</i>	100%	98,80%	100%	100%	?Spinocerebellar ataxia, autosomal recessive 26, 617633
<i>XRCC2</i>	99,80%	97,40%	100%	100%	?Fanconi anemia, complementation group U, 617247
<i>XRCC4</i>	99,90%	99,30%	100%	100%	Short stature, microcephaly, and endocrine dysfunction, 616541
<i>XYLT1</i>	97,40%	89,60%	98,10%	94,80%	Desbuquois dysplasia 2, 615777
<i>XYLT2</i>	100%	98,30%	96,70%	96,70%	Spondyloocular syndrome, 605822
<i>YARS2</i>	100%	99,80%	100%	100%	Myopathy, lactic acidosis, and sideroblastic anemia 2, 613561
<i>YME1L1</i>	99,00%	95,20%	100%	100%	?Optic atrophy 11, 617302
<i>YY1AP1</i>	99,30%	98,20%	100%	100%	Grange syndrome, 602531
<i>ZAP70</i>	100%	99,30%	100%	100%	Immunodeficiency 48, 269840 Autoimmune disease, multisystem, infantile-onset, 2, 617006
<i>ZBTB11</i>	99,90%	99,60%	100%	100%	Intellectual developmental disorder, autosomal recessive 69, 618383
<i>ZBTB16</i>	100%	99,90%	100%	100%	Skeletal defects, genital hypoplasia, and mental retardation, 612447 Leukemia, acute promyelocytic, PL2F/RARA type, 0
<i>ZBTB24</i>	100%	100%	100%	100%	Immunodeficiency-centromeric instability-facial anomalies syndrome 2, 614069
<i>ZBTB42</i>	100%	100%	100%	100%	?Lethal congenital contracture syndrome 6, 616248
<i>ZC3H14</i>	99,90%	98,90%	100%	100%	Mental retardation, autosomal recessive 56, 617125
<i>ZFYVE26</i>	100%	99,10%	100%	100%	Spastic paraparesis 15, autosomal recessive, 270700
<i>ZMPSTE24</i>	100%	99,90%	100%	100%	Restrictive dermopathy, lethal, 275210 Mandibuloacral dysplasia with type B lipodystrophy, 608612
<i>ZMYND10</i>	100%	100%	100%	100%	Ciliary dyskinesia, primary, 22, 615444
<i>ZNF142</i>	100%	99,90%	100%	100%	Neurodevelopmental disorder with impaired speech and hyperkinetic movements, 618425
<i>ZNF335</i>	100%	99,90%	100%	100%	Microcephaly 10, primary, autosomal recessive, 615095
<i>ZNF341</i>	97,20%	95,00%	100%	100%	Hyper-IgE recurrent infection syndrome 3, autosomal recessive, 618282
<i>ZNF408</i>	100%	100%	100%	100%	?Exudative vitreoretinopathy 6, 616468 Retinitis pigmentosa 72, 616469

ZNF423	100%	100%	100%	100%	Nephronophthisis 14, 614844 Joubert syndrome 19, 614844
ZNF469	100%	100%	100%	100%	Brittle cornea syndrome 1, 229200
ZNF513	100%	100%	100%	100%	?Retinitis pigmentosa 58, 613617
ZNHIT3	74,40%	74,40%	74,60%	74,40%	PEHO syndrome, 260565
ZP1	100%	100%	100%	100%	Oocyte maturation defect 1, 615774

Gene symbols used follow HGNC guidelines: Gray KA, Yates B, Seal RL, Wright MW, Bruford EA. Nucleic Acids Res. 2015 Jan 43(Database issue):D1079-85.

Agilent V5 is the default chemistry, and used for all exome analyses apart from the (in-house) TURBO/RAPID WES route.

TWIST is the chemistry used for (in-house) TURBO/RAPID WES analysis.

Covered 10x describes the percentage of a gene's coding sequence that is covered at least 10x.

Covered 20x describes the percentage of a gene's coding sequence that is covered at least 20x.

Genes with coverage denoting NC are non-DNA coding genes.

non-DNA coding genes are covered, but as coverage statistics are based on DNA coding regions, statistics could not be generated.

OMIM release used for OMIM disease identifiers and descriptions : April 20th , 2020.

This list is accurate for panel version DG 2.18

Ad 1. "No OMIM Disease ID" signifies a gene without a current OMIM association Ad 2. OMIM phenotype descriptions between {} signify risk factors

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