

# MENDELIOME GENE PANEL DG 2.18 (3839 genes)

Releasedate: 20-04-2020

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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
<i>A4GALT</i>	100%	100%	100%	100%	NOR polyagglutination syndrome, 111400
<i>AAAS</i>	100%	99,90%	100%	100%	Achalasia-addisonianism-alacrimia syndrome, 231550
<i>AAGAB</i>	100%	99,20%	100%	100%	Keratoderma, palmoplantar, punctate type IA, 148600
<i>AARS</i>	100%	99,90%	100%	100%	Epileptic encephalopathy, early infantile, 29, 616339 Charcot-Marie-Tooth disease, axonal, type 2N, 613287
<i>AARS2</i>	100%	99,40%	100%	100%	Combined oxidative phosphorylation deficiency 8, 614096 Leukoencephalopathy, progressive, with ovarian failure, 615889
<i>AASS</i>	100%	99,70%	100%	100%	Hyperlysinemia, 238700
<i>ABAT</i>	100%	99,40%	100%	100%	GABA-transaminase deficiency, 613163
<i>ABCA1</i>	99,90%	99,10%	100%	100%	Tangier disease, 205400 HDL deficiency, familial, 1, 604091
<i>ABCA12</i>	99,50%	98,70%	100%	100%	Ichthyosis, congenital, autosomal recessive 4B (harlequin), 242500 Ichthyosis, congenital, autosomal recessive 4A, 601277
<i>ABCA3</i>	99,90%	99,30%	100%	100%	Surfactant metabolism dysfunction, pulmonary, 3, 610921
<i>ABCA4</i>	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
<i>ABCA5</i>	98,40%	92,30%	100%	100%	?Hypertrichosis, congenital generalized, with gingival hyperplasia, 135400
<i>ABCB11</i>	100%	99,70%	100%	100%	Cholestasis, progressive familial intrahepatic 2, 601847 Cholestasis, benign recurrent intrahepatic, 2, 605479
<i>ABCB4</i>	99,90%	99,60%	100%	100%	Gallbladder disease 1, 600803 Cholestasis, intrahepatic, of pregnancy, 3, 614972 Cholestasis, progressive familial intrahepatic 3, 602347
<i>ABCB6</i>	100%	99,80%	100%	100%	Dyschromatosis universalis hereditaria 3, 615402 Microphthalmia, isolated, with coloboma 7, 614497 Pseudohyperkalemia, familial, 2, due to red cell leak, 609153
<i>ABCB7</i>	99,50%	98,20%	99,80%	99,30%	Anemia, sideroblastic, with ataxia, 301310
<i>ABCC2</i>	100%	99,90%	100%	100%	Dubin-Johnson syndrome, 237500
<i>ABCC6</i>	93,60%	92,40%	100%	100%	Pseudoxanthoma elasticum, 264800 Pseudoxanthoma elasticum, forme fruste, 177850 Arterial calcification, generalized, of infancy, 2, 614473
<i>ABCC8</i>	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
ABCC9	100%	99,90%	100%	100%	Hypertrichotic osteochondrodysplasia, 239850 ?Atrial fibrillation, familial, 12, 614050 Cardiomyopathy, dilated, 10, 608569
ABCD1	75,80%	71,60%	100%	100%	Adrenomyeloneuropathy, adult, 300100 Adrenoleukodystrophy, 300100
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
ABL1	100%	100%	100%	100%	Leukemia, Philadelphia chromosome-positive, resistant to imatinib, 608232 Congenital heart defects and skeletal malformations syndrome, 617602
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
ACP4	97,20%	88,80%	100%	100%	Amelogenesis imperfecta, type II, 617297
ACP5	99,80%	98,30%	100%	100%	Spondyloenchondrodysplasia with immune dysregulation, 607944
ACSF3	100%	99,90%	100%	100%	Combined malonic and methylmalonic aciduria, 614265

<i>ACSL4</i>	98,70%	94,60%	100%	100%	Mental retardation, X-linked 63, 300387
<i>ACSL6</i>	99,30%	97,80%	100%	100%	Myelodysplastic syndrome, 0 Myelogenous leukemia, acute, 0
<i>ACTA1</i>	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
<i>ACTA2</i>	100%	99,00%	100%	100%	Aortic aneurysm, familial thoracic 6, 611788 Multisystemic smooth muscle dysfunction syndrome, 613834 Moyamoya disease 5, 614042
<i>ACTB</i>	99,70%	96,10%	100%	100%	?Dystonia, juvenile-onset, 607371 Baraitser-Winter syndrome 1, 243310
<i>ACTC1</i>	100%	99,70%	100%	100%	Left ventricular noncompaction 4, 613424 Atrial septal defect 5, 612794 Cardiomyopathy, dilated, 1R, 613424 Cardiomyopathy, hypertrophic, 11, 612098
<i>ACTG1</i>	100%	100%	100%	100%	Baraitser-Winter syndrome 2, 614583 Deafness, autosomal dominant 20/26, 604717
<i>ACTG2</i>	99,90%	98,20%	100%	100%	Visceral myopathy, 155310
<i>ACTL6B</i>	100%	99,80%	100%	100%	Epileptic encephalopathy, early infantile, 76, 618468 Intellectual developmental disorder with severe speech and ambulation defects, 618470
<i>ACTN1</i>	100%	100%	100%	100%	Bleeding disorder, platelet-type, 15, 615193
<i>ACTN2</i>	100%	100%	100%	100%	Myopathy, distal, 6, adult onset, 618655 Cardiomyopathy, dilated, 1AA, with or without LVNC, 612158 Cardiomyopathy, hypertrophic, 23, with or without LVNC, 612158 Myopathy, congenital with structured cores and Z-line abnormalities, 618654
<i>ACTN4</i>	100%	99,30%	100%	100%	Glomerulosclerosis, focal segmental, 1, 603278
<i>ACVR1</i>	100%	100%	100%	100%	Fibrodysplasia ossificans progressiva, 135100
<i>ACVR1B</i>	99,70%	97,40%	100%	100%	Pancreatic cancer, somatic, 0
<i>ACVR2B</i>	98,30%	95,00%	100%	100%	Heterotaxy, visceral, 4, autosomal, 613751
<i>ACVRL1</i>	100%	98,90%	100%	100%	Telangiectasia, hereditary hemorrhagic, type 2, 600376
<i>ACY1</i>	100%	98,80%	100%	100%	Aminoacylase 1 deficiency, 609924
<i>ADA</i>	100%	99,70%	100%	100%	Adenosine deaminase deficiency, partial, 102700 Severe combined immunodeficiency due to ADA deficiency, 102700
<i>ADA2</i>	100%	99,00%	100%	100%	?Sneddon syndrome, 182410 Vasculitis, autoinflammation, immunodeficiency, and hematologic defects syndrome, 615688
<i>ADAM10</i>	94,80%	93,90%	100%	100%	Reticulate acropigmentation of Kitamura, 615537

<i>ADAM17</i>	99,90%	99,00%	100%	100%	?Inflammatory skin and bowel disease, neonatal, 1, 614328
<i>ADAM22</i>	99,90%	99,50%	100%	100%	?Epileptic encephalopathy, early infantile, 61, 617933
<i>ADAM9</i>	99,80%	99,10%	100%	100%	Cone-rod dystrophy 9, 612775
<i>ADAMTS10</i>	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%	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>ADCY5</i>	95,10%	91,20%	99,20%	98,00%	Dyskinesia, familial, with facial myokymia, 606703
<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>ADGRE2</i>	96,80%	96,10%	99,10%	98,70%	Vibratory urticaria, 125630
<i>ADGRG1</i>	100%	100%	100%	100%	Polymicrogyria, bilateral perisylvian, 615752 Polymicrogyria, bilateral frontoparietal, 606854
<i>ADGRG2</i>	98,30%	92,70%	100%	100%	Congenital bilateral absence of vas deferens, X-linked, 300985
<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>ADIPOQ</i>	100%	100%	100%	100%	Adiponectin deficiency, 612556
<i>ADK</i>	99,50%	95,80%	100%	100%	Hypermethioninemia due to adenosine kinase deficiency, 614300
<i>ADNP</i>	100%	100%	100%	100%	Helsmoortel-van der Aa syndrome, 615873
<i>ADPRHL2</i>	100%	99,80%	100%	100%	Neurodegeneration, childhood-onset, stress-induced, with variable ataxia and seizures, 618170
<i>ADRB2</i>	100%	99,70%	100%	100%	Beta-2-adrenoreceptor agonist, reduced response to, 0
<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>AFF2</i>	99,90%	99,40%	100%	99,80%	Mental retardation, X-linked, FRADE type, 309548
<i>AFF4</i>	99,90%	98,90%	100%	100%	CHOPS syndrome, 616368

<i>AFG3L2</i>	95,00%	91,10%	100%	99,90%	Spastic ataxia 5, autosomal recessive, 614487 Spinocerebellar ataxia 28, 610246
<i>AFP</i>	96,90%	89,80%	100%	100%	Alpha-fetoprotein deficiency, 615969
<i>AGA</i>	100%	100%	100%	100%	Aspartylglucosaminuria, 208400
<i>AGBL1</i>	98,50%	98,50%	100%	100%	Corneal dystrophy, Fuchs endothelial, 8, 615523
<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>AHDC1</i>	100%	99,30%	100%	100%	Xia-Gibbs syndrome, 615829
<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>AIFM1</i>	99,90%	98,80%	100%	100%	Cowchock syndrome, 310490 Spondyloepimetaphyseal dysplasia, X-linked, with hypomyelinating leukodystrophy, 300232 Combined oxidative phosphorylation deficiency 6, 300816 Deafness, X-linked 5, 300614
<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>AIP</i>	100%	99,00%	100%	100%	Pituitary adenoma 1, multiple types, 102200 Pituitary adenoma predisposition, 102200
<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>AK7</i>	99,70%	98,10%	100%	100%	?Spermatogenic failure 27, 617965
<i>AKAP9</i>	98,80%	95,50%	100%	100%	?Long QT syndrome 11, 611820
<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>AKT1</i>	100%	99,50%	100%	100%	Breast cancer, somatic, 114480 Cowden syndrome 6, 615109 Proteus syndrome, somatic, 176920 Ovarian cancer, somatic, 167000 Colorectal cancer, somatic, 114500
<i>AKT2</i>	100%	99,50%	100%	100%	Hypoinsulinemic hypoglycemia with hemihypertrophy, 240900 Diabetes mellitus, type II, 125853
<i>AKT3</i>	98,70%	94,50%	100%	100%	Megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome 2, 615937
<i>AL032819.3</i>	1,80%	0,00%	100%	100%	Diarrhea 11, malabsorptive, congenital, 618662
<i>ALAD</i>	99,30%	94,10%	100%	100%	Porphyria, acute hepatic, 612740
<i>ALAS2</i>	98,90%	94,90%	100%	100%	Protoporphyrina, erythropoietic, X-linked, 300752 Anemia, sideroblastic, 1, 300751
<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>ALDH2</i>	100%	100%	100%	100%	Alcohol sensitivity, acute, 610251
<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>ALG13</i>	98,40%	92,60%	100%	99,60%	Epileptic encephalopathy, early infantile, 36, 300884 ?Congenital disorder of glycosylation, type I $\sigma$ , 300884
<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>AMELX</i>	99,90%	96,80%	100%	100%	Amelogenesis imperfecta, type 1E, 301200
<i>AMER1</i>	99,90%	98,50%	100%	100%	Osteopathia striata with cranial sclerosis, 300373
<i>AMH</i>	96,40%	83,80%	100%	99,80%	Persistent Mullerian duct syndrome, type I, 261550
<i>AMHR2</i>	100%	99,50%	100%	100%	Persistent Mullerian duct syndrome, type II, 261550
<i>AMMECR1</i>	100%	99,10%	100%	100%	Midface hypoplasia, hearing impairment, elliptocytosis, and nephrocalcinosis, 300990
<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 paraplegia 63, 615686 Pontocerebellar hypoplasia, type 9, 615809
<i>AMT</i>	100%	100%	100%	100%	Glycine encephalopathy, 605899

<i>AMTN</i>	99,60%	98,60%	100%	100%	?Amelogenesis imperfecta, type IIIB, 617607
<i>ANAPC1</i>	59,40%	57,70%	100%	99,90%	Rothmund-Thomson syndrome, type 1, 618625
<i>ANG</i>	100%	100%	100%	100%	Amyotrophic lateral sclerosis 9, 611895
<i>ANGPTL3</i>	98,80%	95,40%	100%	100%	Hypobetalipoproteinemia, familial, 2, 605019
<i>ANGPTL4</i>	100%	99,20%	100%	100%	Plasma triglyceride level QTL, low, 615881
<i>ANK1</i>	100%	99,40%	100%	100%	Spherocytosis, type 1, 182900
<i>ANK2</i>	100%	100%	100%	100%	Cardiac arrhythmia, ankyrin-B-related, 600919 Long QT syndrome 4, 600919
<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>ANKRD11</i>	97,50%	94,80%	100%	100%	KBG syndrome, 148050
<i>ANKRD26</i>	95,00%	89,30%	97,20%	97,20%	Thrombocytopenia 2, 188000
<i>ANKS6</i>	93,80%	89,50%	97,90%	95,80%	Nephronophthisis 16, 615382
<i>ANLN</i>	98,70%	97,50%	100%	100%	Focal segmental glomerulosclerosis 8, 616032
<i>ANO10</i>	99,80%	97,90%	100%	100%	Spinocerebellar ataxia, autosomal recessive 10, 613728
<i>ANO3</i>	99,50%	97,80%	100%	100%	Dystonia 24, 615034
<i>ANO5</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>ANOS1</i>	89,80%	88,90%	99,90%	99,40%	Hypogonadotropic hypogonadism 1 with or without anosmia (Kallmann syndrome 1), 308700
<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>ANXA11</i>	100%	98,50%	100%	100%	Amyotrophic lateral sclerosis 23, 617839
<i>AP1S1</i>	99,90%	99,50%	100%	100%	MEDNIK syndrome, 609313
<i>AP1S2</i>	76,40%	67,90%	100%	100%	Mental retardation, X-linked syndromic 5, 304340
<i>AP2M1</i>	100%	100%	100%	100%	Intellectual developmental disorder 60 with seizures, 618587
<i>AP2S1</i>	90,40%	90,30%	100%	100%	Hypocalciuric hypercalcemia, type III, 600740
<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>APC</i>	100%	99,70%	100%	100%	Desmoid disease, hereditary, 135290 Adenomatous polyposis coli, 175100 Gardner syndrome, 175100 Hepatoblastoma, somatic, 114550 Colorectal cancer, somatic, 114500 Brain tumor-polyposis syndrome 2, 175100 Gastric cancer, somatic, 613659 Adenoma, periampullary, somatic, 0
<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>APCDD1</i>	100%	99,80%	100%	100%	Hypotrichosis 1, 605389
<i>APOA1</i>	100%	100%	100%	100%	Hypoalphalipoproteinemia, primary, 2, with or without corneal clouding, 618463 Amyloidosis, 3 or more types, 105200 ApoA-I and apoC-III deficiency, combined, 618463
<i>APOA2</i>	84,20%	81,50%	100%	100%	Apolipoprotein A-II deficiency, 0
<i>APOA5</i>	100%	99,90%	100%	100%	Hyperchylomicronemia, late-onset, 144650
<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>APOC3</i>	100%	100%	100%	100%	Apolipoprotein C-III deficiency, 614028
<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>APP</i>	100%	99,90%	100%	100%	Cerebral amyloid angiopathy, Dutch, Italian, Iowa, Flemish, Arctic variants, 605714 Alzheimer disease 1, familial, 104300
<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>AQP5</i>	100%	97,00%	100%	100%	Palmoplantar keratoderma, Bothnian type, 600231
<i>AR</i>	97,60%	93,20%	100%	99,20%	Hypospadias 1, X-linked, 300633 Androgen insensitivity, 300068 Androgen insensitivity, partial, with or without breast cancer, 312300 Spinal and bulbar muscular atrophy of Kennedy, 313200
<i>ARCN1</i>	97,00%	96,60%	96,90%	96,60%	Short stature, rhizomelic, with microcephaly, micrognathia, and developmental delay, 617164

<i>ARF1</i>	100%	100%	100%	100%	Periventricular nodular heterotopia 8, 618185
<i>ARFGEF2</i>	99,90%	99,10%	100%	100%	Periventricular heterotopia with microcephaly, 608097
<i>ARG1</i>	100%	100%	100%	100%	Argininemia, 207800
<i>ARHGAP26</i>	100%	99,90%	100%	100%	Leukemia, juvenile myelomonocytic, somatic, 607785
<i>ARHGAP31</i>	99,90%	98,80%	100%	100%	Adams-Oliver syndrome 1, 100300
<i>ARHGDIA</i>	100%	100%	100%	100%	Nephrotic syndrome, type 8, 615244
<i>ARHGEF1</i>	99,90%	98,40%	100%	100%	?Immunodeficiency 62, 618459
<i>ARHGEF10</i>	99,80%	98,00%	100%	100%	?Slowed nerve conduction velocity, AD, 608236
<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>ARHGEF9</i>	76,50%	74,10%	97,20%	97,10%	Epileptic encephalopathy, early infantile, 8, 300607
<i>ARID1A</i>	98,10%	96,40%	100%	100%	Coffin-Siris syndrome 2, 614607
<i>ARID1B</i>	99,50%	98,60%	99,90%	99,20%	Coffin-Siris syndrome 1, 135900
<i>ARID2</i>	99,80%	98,40%	100%	100%	Coffin-Siris syndrome 6, 617808
<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 paraparesis 61, autosomal recessive, 615685
<i>ARMC2</i>	100%	99,20%	100%	100%	Spermatogenic failure 38, 618433
<i>ARMC4</i>	95,60%	93,50%	100%	100%	Ciliary dyskinesia, primary, 23, 615451
<i>ARMC5</i>	100%	99,40%	100%	100%	ACTH-independent macronodular adrenal hyperplasia 2, 615954
<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>ARR3</i>	100%	99,80%	100%	100%	Myopia 26, X-linked, female-limited, 301010
<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>ARSE</i>	99,00%	93,00%	100%	99,90%	Chondrodysplasia punctata, X-linked recessive, 302950
<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>ARX</i>	81,00%	64,00%	91,50%	85,70%	Proud syndrome, 300004 Partington syndrome, 309510 Lissencephaly, X-linked 2, 300215 Epileptic encephalopathy, early infantile, 1, 308350

					Mental retardation, X-linked 29 and others, 300419 Hydranencephaly with abnormal genitalia, 300215
<i>ASAHI</i>	99,70%	98,60%	100%	100%	Farber lipogranulomatosis, 228000 Spinal muscular atrophy with progressive myoclonic epilepsy, 159950
<i>ASB10</i>	99,40%	95,70%	100%	100%	Glaucoma 1, open angle, F, 603383
<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>ASCL1</i>	100%	97,60%	100%	100%	Haddad syndrome, 209880 Central hypoventilation syndrome, congenital, 209880
<i>ASH1L</i>	98,70%	98,60%	98,70%	98,70%	Mental retardation, autosomal dominant 52, 617796
<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>ASPSCR1</i>	99,70%	97,80%	100%	100%	Alveolar soft-part sarcoma, 606243
<i>ASS1</i>	95,40%	87,90%	100%	100%	Citrullinemia, 215700
<i>ASXL1</i>	100%	99,50%	99,90%	99,90%	Bohring-Opitz syndrome, 605039 Myelodysplastic syndrome, somatic, 614286
<i>ASXL2</i>	99,70%	98,90%	100%	100%	Shashi-Pena syndrome, 617190
<i>ASXL3</i>	99,90%	99,70%	100%	100%	Bainbridge-Ropers syndrome, 615485
<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>ATL1</i>	100%	99,70%	100%	100%	Spastic paraparesis 3A, autosomal dominant, 182600 Neuropathy, hereditary sensory, type ID, 613708
<i>ATL3</i>	99,80%	98,30%	100%	100%	Neuropathy, hereditary sensory, type IF, 615632
<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>ATN1</i>	99,90%	98,20%	100%	100%	Dentatorubral-pallidoluysian atrophy, 125370 Congenital hypotonia, epilepsy, developmental delay, and digital anomalies, 618494

ATOH7	96,00%	91,20%	99,10%	94,40%	Persistent hyperplastic primary vitreous, autosomal recessive, 221900
ATP11C	98,70%	93,80%	100%	99,60%	?Hemolytic anemia, congenital, X-linked, 301015
ATP13A2	100%	99,50%	100%	100%	Kufor-Rakeb syndrome, 606693 Spastic paraparesis 78, autosomal recessive, 617225
ATP1A1	100%	100%	100%	100%	Charcot-Marie-Tooth disease, axonal, type 2DD, 618036 Hypomagnesemia, seizures, and mental retardation 2, 618314
ATP1A2	100%	100%	100%	100%	Migraine, familial hemiplegic, 2, 602481 Migraine, familial basilar, 602481 Alternating hemiparesis of childhood 1, 104290
ATP1A3	100%	99,90%	100%	100%	CAPOS syndrome, 601338 Alternating hemiparesis of childhood 2, 614820 Dystonia-12, 128235
ATP2A1	100%	100%	100%	100%	Brody myopathy, 601003
ATP2A2	100%	100%	100%	100%	Acrokeratosis verruciformis, 101900 Darier disease, 124200
ATP2B3	99,50%	97,50%	100%	100%	?Spinocerebellar atrophy, X-linked 1, 302500
ATP2C1	100%	99,60%	100%	100%	Hailey-Hailey disease, 169600
ATP5A1	95,20%	87,60%	100%	100%	?Mitochondrial complex V (ATP synthase) deficiency, nuclear type 4, 615228 ?Combined oxidative phosphorylation deficiency 22, 616045
ATP5D	96,20%	89,30%	100%	100%	Mitochondrial complex V (ATP synthase) deficiency, 618120
ATP5E	100%	100%	100%	100%	?Mitochondrial complex V (ATP synthase) deficiency, nuclear type 3, 614053
ATP6AP1	98,20%	92,10%	100%	100%	Immunodeficiency 47, 300972
ATP6AP2	94,10%	76,60%	100%	100%	Congenital disorder of glycosylation, type IIr, 301045 Mental retardation, X-linked, syndromic, Hedera type, 300423 ?Parkinsonism with spasticity, X-linked, 300911
ATP6VOA2	100%	99,50%	100%	100%	Wrinkly skin syndrome, 278250 Cutis laxa, autosomal recessive, type IIA, 219200
ATP6VOA4	100%	99,90%	100%	100%	Renal tubular acidosis, distal, autosomal recessive, 602722
ATP6V1A	99,90%	98,70%	100%	100%	Epileptic encephalopathy, infantile or early childhood, 3, 618012 Cutis laxa, autosomal recessive, type IID, 617403
ATP6V1B1	100%	100%	100%	100%	Renal tubular acidosis with deafness, 267300
ATP6V1B2	100%	99,30%	100%	100%	Zimmermann-Laband syndrome 2, 616455 Deafness, congenital, with onychodystrophy, autosomal dominant, 124480
ATP6V1E1	93,10%	88,30%	100%	100%	Cutis laxa, autosomal recessive, type IIC, 617402
ATP7A	99,70%	97,50%	100%	100%	Occipital horn syndrome, 304150 Menkes disease, 309400 Spinal muscular atrophy, distal, X-linked 3, 300489
ATP7B	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>ATRX</i>	99,40%	96,30%	100%	100%	Alpha-thalassemia/mental retardation syndrome, 301040 Alpha-thalassemia myelodysplasia syndrome, somatic, 300448 Mental retardation-hypotonic facies syndrome, X-linked, 309580
<i>ATXN1</i>	100%	99,70%	100%	100%	Spinocerebellar ataxia 1, 164400
<i>ATXN10</i>	99,90%	99,20%	100%	100%	Spinocerebellar ataxia 10, 603516
<i>ATXN2</i>	92,70%	85,70%	99,10%	96,80%	Spinocerebellar ataxia 2, 183090
<i>ATXN3</i>	94,50%	89,80%	95,80%	95,80%	Machado-Joseph disease, 109150
<i>ATXN7</i>	99,80%	97,60%	98,60%	97,40%	Spinocerebellar ataxia 7, 164500
<i>ATXN8OS</i>	NC	NC	NC	NC	Spinocerebellar ataxia 8, 608768
<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>AUTS2</i>	98,20%	95,80%	100%	100%	Mental retardation, autosomal dominant 26, 615834
<i>AVIL</i>	100%	99,90%	100%	100%	Nephrotic syndrome, type 21, 618594
<i>AVP</i>	84,90%	64,30%	100%	99,90%	Diabetes insipidus, neurohypophyseal, 125700
<i>AVPR2</i>	100%	99,40%	100%	100%	Nephrogenic syndrome of inappropriate antidiuresis, 300539 Diabetes insipidus, nephrogenic, 304800
<i>AXIN1</i>	100%	99,60%	100%	100%	Hepatocellular carcinoma, somatic, 114550 ?Caudal duplication anomaly, 607864
<i>AXIN2</i>	100%	99,90%	100%	99,90%	Colorectal cancer, somatic, 114500 Oligodontia-colorectal cancer syndrome, 608615
<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>BACH2</i>	100%	100%	100%	100%	Immunodeficiency 60, 618394
<i>BAG3</i>	100%	100%	100%	100%	Cardiomyopathy, dilated, 1HH, 613881 Myopathy, myofibrillar, 6, 612954
<i>BANF1</i>	98,30%	86,60%	100%	100%	Nestor-Guillermo progeria syndrome, 614008
<i>BAP1</i>	84,40%	83,00%	100%	100%	Tumor predisposition syndrome, 614327
<i>BAX</i>	98,00%	95,40%	100%	100%	T-cell acute lymphoblastic leukemia, somatic, 613065 Colorectal cancer, somatic, 114500
<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>BCAP31</i>	92,60%	83,20%	100%	99,90%	Deafness, dystonia, and cerebral hypomyelination, 300475
<i>BCHE</i>	100%	99,90%	100%	100%	Butyrylcholinesterase deficiency, 617936
<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>BCL11A</i>	99,80%	98,10%	100%	100%	Dias-Logan syndrome, 617101
<i>BCL11B</i>	99,10%	95,60%	98,80%	97,30%	Immunodeficiency 49, 617237 Intellectual developmental disorder with dysmorphic facies, speech delay, and T-cell abnormalities, 618092
<i>BCL2</i>	100%	100%	100%	100%	Leukemia/lymphoma, B-cell, 2, 0
<i>BCL7A</i>	100%	100%	100%	100%	B-cell non-Hodgkin lymphoma, high-grade, 0

<i>BCO1</i>	100%	100%	100%	100%	?Hypercarotenemia and vitamin A deficiency, autosomal dominant, 115300
<i>BCOR</i>	99,60%	97,40%	100%	99,90%	Microphtalmia, syndromic 2, 300166
<i>BCORL1</i>	99,60%	97,90%	100%	100%	Shukla-Vernon syndrome, 301029
<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>BDP1</i>	98,80%	95,30%	100%	100%	?Deafness, autosomal recessive 112, 618257
<i>BEAN1</i>	98,70%	96,40%	92,20%	92,20%	Spinocerebellar ataxia 31, 117210
<i>BEST1</i>	99,40%	96,40%	99,90%	99,40%	Retinitis pigmentosa-50, 613194 Bestrophinopathy, autosomal recessive, 611809 Retinitis pigmentosa, concentric, 613194 Vitreoretinochoroidopathy, 193220 Microcornea, rod-cone dystrophy, cataract, and posterior staphyloma, 193220 Macular dystrophy, vitelliform, 2, 153700
<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>BGN</i>	100%	100%	100%	100%	Meester-Loeys syndrome, 300989 Spondyloepimetaphyseal dysplasia, X-linked, 300106
<i>BHLHA9</i>	70,90%	50,40%	99,80%	97,30%	Syndactyly, mesoaxial synostotic, with phalangeal reduction, 609432 ?Camptosynpolydactyly, complex, 607539
<i>BICD2</i>	100%	99,70%	100%	100%	Spinal muscular atrophy, lower extremity-predominant, 2B, autosomal dominant, 618291 Spinal muscular atrophy, lower extremity-predominant, 2A, autosomal dominant, 615290
<i>BIN1</i>	99,60%	95,70%	100%	100%	Centronuclear myopathy 2, 255200
<i>BLK</i>	100%	100%	100%	100%	Maturity-onset diabetes of the young, type 11, 613375
<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>BMP15</i>	100%	99,30%	100%	100%	Ovarian dysgenesis 2, 300510 Premature ovarian failure 4, 300510
<i>BMP2</i>	100%	100%	100%	100%	Brachydactyly, type A2, 112600 Short stature, facial dysmorphism, and skeletal anomalies with or without cardiac anomalies, 617877
<i>BMP4</i>	100%	100%	100%	100%	Microphtalmia, syndromic 6, 607932 Orofacial cleft 11, 600625
<i>BMPER</i>	100%	99,80%	100%	100%	Diaphanatospondylodysostosis, 608022

<i>BMPR1A</i>	99,80%	96,60%	100%	100%	Polyposis syndrome, hereditary mixed, 2, 610069 Polyposis, juvenile intestinal, 174900 Juvenile polyposis syndrome, infantile form, 174900
<i>BMPR1B</i>	100%	99,90%	100%	100%	Brachydactyly, type A2, 112600 Brachydactyly, type A1, D, 616849 Acromesomelic dysplasia, Demirhan type, 609441
<i>BMPR2</i>	99,90%	99,90%	99,90%	99,90%	Pulmonary venoocclusive disease 1, 265450 Pulmonary hypertension, familial primary, 1, with or without HHT, 178600 Pulmonary hypertension, primary, fenfluramine or dexfenfluramine-associated, 178600
<i>BMS1</i>	66,70%	66,40%	100%	100%	?Aplasia cutis congenita, nonsyndromic, 107600
<i>BNC2</i>	99,10%	99,10%	100%	100%	Lower urinary tract obstruction, congenital, 618612
<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>BPTF</i>	96,10%	94,20%	99,60%	98,60%	Neurodevelopmental disorder with dysmorphic facies and distal limb anomalies, 617755
<i>BRAF</i>	95,60%	85,10%	100%	100%	Noonan syndrome 7, 613706 Cardiofaciocutaneous syndrome, 115150 Adenocarcinoma of lung, somatic, 211980 LEOPARD syndrome 3, 613707 Nonsmall cell lung cancer, somatic, 0 Melanoma, malignant, somatic, 0 Colorectal cancer, somatic, 0
<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>BRDT</i>	95,90%	91,60%	100%	100%	?Spermatogenic failure 21, 617644
<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>BRPF1</i>	100%	100%	100%	100%	Intellectual developmental disorder with dysmorphic facies and ptosis, 617333
<i>BRWD3</i>	99,30%	97,20%	100%	100%	Mental retardation, X-linked 93, 300659
<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>BTK</i>	100%	99,90%	100%	99,90%	Isolated growth hormone deficiency, type III, with agammaglobulinemia, 307200 Agammaglobulinemia, X-linked 1, 300755
<i>BUB1</i>	99,80%	98,80%	100%	100%	Colorectal cancer with chromosomal instability, somatic, 114500
<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>C11orf70</i>	99,30%	95,90%	100%	100%	Ciliary dyskinesia, primary, 38, 618063
<i>C11orf80</i>	98,20%	93,70%	92,50%	92,50%	Hydatidiform mole, recurrent, 4, 618432
<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>C1GALT1C1</i>	100%	99,50%	100%	100%	Tn polyagglutination syndrome, somatic, 300622
<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>C1QTNF5</i>	90,90%	78,50%	100%	100%	Retinal degeneration, late-onset, autosomal dominant, 605670
<i>C1R</i>	100%	100%	99,00%	96,90%	Ehlers-Danlos syndrome, periodontal type, 1, 130080
<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 staphyoma, 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>C6</i>	100%	99,70%	100%	100%	C6 deficiency, 612446 Combined C6/C7 deficiency, 0
<i>C7</i>	100%	98,90%	100%	100%	C7 deficiency, 610102
<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>C9orf72</i>	99,90%	98,30%	100%	100%	Frontotemporal dementia and/or amyotrophic lateral sclerosis 1, 105550
<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>CA4</i>	100%	100%	100%	100%	Retinitis pigmentosa 17, 600852
<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>CACNA1A</i>	95,10%	91,90%	100%	100%	Spinocerebellar ataxia 6, 183086 Epileptic encephalopathy, early infantile, 42, 617106 Migraine, familial hemiplegic, 1, with progressive cerebellar ataxia, 141500 Episodic ataxia, type 2, 108500 Migraine, familial hemiplegic, 1, 141500
<i>CACNA1B</i>	97,50%	95,70%	99,10%	97,70%	Neurodevelopmental disorder with seizures and nonepileptic hyperkinetic movements, 618497
<i>CACNA1C</i>	99,90%	99,20%	100%	100%	Timothy syndrome, 601005 Long QT syndrome 8, 618447 Brugada syndrome 3, 611875
<i>CACNA1D</i>	98,00%	97,90%	100%	100%	Sinoatrial node dysfunction and deafness, 614896 Primary aldosteronism, seizures, and neurologic abnormalities, 615474
<i>CACNA1E</i>	100%	99,90%	100%	100%	Epileptic encephalopathy, early infantile, 69, 618285
<i>CACNA1F</i>	99,70%	97,50%	100%	100%	Cone-rod dystrophy, X-linked, 3, 300476 Night blindness, congenital stationary (incomplete), 2A, X-linked, 300071 Aland Island eye disease, 300600
<i>CACNA1G</i>	100%	99,60%	100%	100%	Spinocerebellar ataxia 42, 616795 Spinocerebellar ataxia 42, early-onset, severe, with neurodevelopmental deficits, 618087
<i>CACNA1H</i>	98,70%	96,40%	100%	99,90%	Hyperaldosteronism, familial, type IV, 617027

<i>CACNA1S</i>	100%	99,90%	100%	100%	Hypokalemic periodic paralysis, type 1, 170400
<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>CACNB2</i>	100%	100%	100%	100%	Brugada syndrome 4, 611876
<i>CACNB4</i>	95,50%	94,30%	100%	100%	Episodic ataxia, type 5, 613855
<i>CACNG2</i>	100%	100%	100%	100%	?Mental retardation, autosomal dominant 10, 614256
<i>CAD</i>	100%	99,20%	100%	100%	Epileptic encephalopathy, early infantile, 50, 616457
<i>CALM1</i>	100%	99,40%	100%	100%	Long QT syndrome 14, 616247 Ventricular tachycardia, catecholaminergic polymorphic, 4, 614916
<i>CALM2</i>	67,80%	65,10%	72,00%	72,00%	Long QT syndrome 15, 616249
<i>CALR</i>	94,80%	89,10%	100%	100%	Myelofibrosis, somatic, 254450 Thrombocythemia, somatic, 187950
<i>CAMK2A</i>	100%	99,60%	100%	100%	?Mental retardation, autosomal recessive 63, 618095 Mental retardation, autosomal dominant 53, 617798
<i>CAMK2B</i>	100%	99,80%	100%	100%	Mental retardation, autosomal dominant 54, 617799
<i>CAMK2G</i>	99,90%	98,10%	100%	100%	Mental retardation, autosomal dominant 59, 618522
<i>CAMTA1</i>	100%	99,50%	100%	100%	Cerebellar ataxia, nonprogressive, with mental retardation, 614756
<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 paraparesis 76, autosomal recessive, 616907
<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>CAPN5</i>	100%	100%	100%	100%	Vitreoretinopathy, neovascular inflammatory, 193235
<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>CARD14</i>	100%	99,10%	100%	100%	Pityriasis rubra pilaris, 173200 Psoriasis 2, 602723
<i>CARD9</i>	99,90%	98,40%	100%	100%	Candidiasis, familial, 2, autosomal recessive, 212050
<i>CARMIL2</i>	96,30%	94,50%	99,70%	98,20%	Immunodeficiency 58, 618131
<i>CARS2</i>	100%	100%	100%	99,20%	Combined oxidative phosphorylation deficiency 27, 616672
<i>CASK</i>	99,60%	96,80%	100%	100%	Mental retardation, with or without nystagmus, 300422 Mental retardation and microcephaly with pontine and cerebellar hypoplasia, 300749 FG syndrome 4, 300422
<i>CASP10</i>	99,50%	97,30%	100%	100%	Lymphoma, non-Hodgkin, somatic, 605027 Gastric cancer, somatic, 613659 Autoimmune lymphoproliferative syndrome, type II, 603909
<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>CASQ1</i>	100%	99,50%	100%	100%	Myopathy, vacuolar, with CASQ1 aggregates, 616231
<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>CAV3</i>	100%	100%	100%	100%	Creatine phosphokinase, elevated serum, 123320 Long QT syndrome 9, 611818 Myopathy, distal, Tateyama type, 614321 Rippling muscle disease 2, 606072 Cardiomyopathy, familial hypertrophic, 192600
<i>CAVIN1</i>	100%	100%	100%	100%	Lipodystrophy, congenital generalized, type 4, 613327
<i>CBL</i>	97,30%	97,10%	100%	100%	Noonan syndrome-like disorder with or without juvenile myelomonocytic leukemia, 613563 ?Juvenile myelomonocytic leukemia, 607785
<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>CCDC22</i>	99,60%	96,50%	100%	100%	Ritscher-Schinzel syndrome 2, 300963
<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>CCDC50</i>	100%	99,70%	100%	100%	?Deafness, autosomal dominant 44, 607453
<i>CCDC65</i>	99,60%	97,10%	100%	100%	Ciliary dyskinesia, primary, 27, 615504
<i>CCDC78</i>	100%	100%	100%	100%	?Centronuclear myopathy 4, 614807
<i>CCDC8</i>	100%	100%	100%	100%	3-M syndrome 3, 614205
<i>CCDC88A</i>	98,90%	95,40%	100%	100%	?PPEHO syndrome-like, 617507
<i>CCDC88C</i>	100%	99,30%	100%	100%	?Spinocerebellar ataxia 40, 616053 Hydrocephalus, congenital, 1, 236600
<i>CCM2</i>	98,70%	97,80%	100%	100%	Cerebral cavernous malformations-2, 603284
<i>CCND2</i>	100%	100%	100%	100%	Megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome 3, 615938
<i>CCNK</i>	92,60%	89,80%	100%	99,80%	?Intellectual developmental disorder with hypertelorism and distinctive facies, 618147
<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 paraparesis, 256840
<i>CD151</i>	100%	100%	100%	100%	Nephropathy with pretibial epidermolysis bullosa and deafness, 609057
<i>CD164</i>	99,10%	94,80%	100%	100%	?Deafness, autosomal dominant 66, 616969
<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>CD36</i>	99,70%	98,70%	100%	100%	Platelet glycoprotein IV deficiency, 608404
<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>CD4</i>	100%	99,90%	100%	100%	OKT4 epitope deficiency, 613949
<i>CD40</i>	100%	100%	100%	100%	Immunodeficiency with hyper-IgM, type 3, 606843
<i>CD40LG</i>	97,30%	88,10%	100%	100%	Immunodeficiency, X-linked, with hyper-IgM, 308230
<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>CD70</i>	99,80%	97,70%	100%	100%	Lymphoproliferative syndrome 3, 618261
<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>CD96</i>	99,90%	99,70%	100%	100%	C syndrome, 211750
<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>CDC42</i>	97,80%	90,70%	100%	100%	Takenouchi-Kosaki syndrome, 616737
<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>CDC73</i>	100%	99,40%	100%	100%	Parathyroid adenoma with cystic changes, 145001 Hyperparathyroidism-jaw tumor syndrome, 145001 Parathyroid carcinoma, 608266 Hyperparathyroidism, familial primary, 145000
<i>CDCA7</i>	100%	99,60%	100%	100%	Immunodeficiency-centromeric instability-facial anomalies syndrome 3, 616910
<i>CDH1</i>	99,20%	99,10%	96,10%	96,00%	Endometrial carcinoma, somatic, 608089 Blepharocheilodontic syndrome 1, 119580 Gastric cancer, hereditary diffuse, with or without cleft lip and/or palate, 137215 Ovarian cancer, somatic, 167000
<i>CDH11</i>	100%	100%	100%	100%	Elsahy-Waters syndrome, 211380
<i>CDH15</i>	99,90%	98,70%	100%	100%	Mental retardation, autosomal dominant 3, 612580
<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>CDK13</i>	98,00%	92,70%	100%	100%	Congenital heart defects, dysmorphic facial features, and intellectual developmental disorder, 617360
<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>CDKL5</i>	95,00%	93,50%	95,60%	95,00%	Epileptic encephalopathy, early infantile, 2, 300672
<i>CDKN1B</i>	100%	99,80%	100%	100%	Multiple endocrine neoplasia, type IV, 610755
<i>CDKN1C</i>	86,30%	74,80%	99,20%	96,90%	IMAGE syndrome, 614732 Beckwith-Wiedemann syndrome, 130650
<i>CDKN2A</i>	92,30%	92,10%	100%	100%	No OMIM disease ID
<i>CDON</i>	100%	99,60%	100%	100%	Holoprosencephaly 11, 614226
<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>CEBPA</i>	98,60%	83,90%	99,30%	94,70%	Leukemia, acute myeloid, somatic, 601626 ?Leukemia, acute myeloid, 601626
<i>CEBPE</i>	100%	100%	100%	100%	Specific granule deficiency, 245480
<i>CEL</i>	89,70%	88,00%	100%	99,80%	Maturity-onset diabetes of the young, type VIII, 609812
<i>CELA2A</i>	98,30%	95,50%	100%	100%	Abdominal obesity-metabolic syndrome 4, 618620
<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>CEP250</i>	100%	99,20%	100%	100%	Cone-rod dystrophy and hearing loss 2, 618358
<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%	M 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>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>CES1</i>	99,80%	99,30%	99,90%	99,90%	Drug metabolism, altered, CES1-related, 618057
<i>CETP</i>	100%	99,90%	100%	100%	Hyperalphalipoproteinemia, 143470
<i>CFAP43</i>	99,90%	98,90%	100%	100%	Hydrocephalus, normal pressure, 1, 236690 Spermatogenic failure 19, 617592

<i>CFAP44</i>	99,80%	98,90%	100%	100%	?Spermatogenic failure 20, 617593
<i>CFAP53</i>	99,60%	97,40%	100%	100%	Heterotaxy, visceral, 6, autosomal recessive, 614779
<i>CFAP69</i>	98,70%	93,50%	100%	100%	Spermatogenic failure 24, 617959
<i>CFB</i>	100%	100%	100%	100%	?Complement factor B deficiency, 615561
<i>CFC1</i>	84,20%	74,10%	100%	100%	Heterotaxy, visceral, 2, autosomal, 605376
<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>CFHR5</i>	99,60%	98,40%	100%	100%	Nephropathy due to CFHR5 deficiency, 614809
<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>CFP</i>	100%	99,00%	100%	100%	Properdin deficiency, X-linked, 312060
<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>CHAMP1</i>	100%	100%	100%	100%	Mental retardation, autosomal dominant 40, 616579
<i>CHAT</i>	93,50%	85,70%	100%	100%	Myasthenic syndrome, congenital, 6, presynaptic, 254210
<i>CHCHD10</i>	59,10%	43,90%	100%	100%	Spinal muscular atrophy, Jokela type, 615048 Frontotemporal dementia and/or amyotrophic lateral sclerosis 2, 615911 ?Myopathy, isolated mitochondrial, autosomal dominant, 616209
<i>CHCHD2</i>	98,40%	83,80%	100%	100%	Parkinson disease 22, autosomal dominant, 616710
<i>CHD1</i>	99,30%	94,90%	100%	100%	Pilarowski-Bjornsson syndrome, 617682
<i>CHD2</i>	99,40%	99,20%	100%	100%	Epileptic encephalopathy, childhood-onset, 615369
<i>CHD3</i>	94,80%	92,60%	99,80%	99,50%	Snijders Blok-Campeau syndrome, 618205
<i>CHD4</i>	100%	99,90%	100%	100%	Sifrim-Hitz-Weiss syndrome, 617159
<i>CHD7</i>	100%	99,50%	100%	100%	Hypogonadotropic hypogonadism 5 with or without anosmia, 612370 CHARGE syndrome, 214800
<i>CHEK2</i>	85,00%	81,50%	100%	100%	Li-Fraumeni syndrome, 609265 Osteosarcoma, somatic, 259500
<i>CHKB</i>	100%	99,70%	100%	100%	Muscular dystrophy, congenital, megaconial type, 602541
<i>CHM</i>	98,50%	94,50%	98,80%	97,40%	Choroideremia, 303100
<i>CHMP1A</i>	100%	99,80%	100%	100%	Pontocerebellar hypoplasia, type 8, 614961
<i>CHMP2B</i>	99,70%	96,70%	100%	100%	Amyotrophic lateral sclerosis 17, 614696 Dementia, familial, nonspecific, 600795
<i>CHMP4B</i>	100%	99,30%	100%	100%	Cataract 31, multiple types, 605387
<i>CHN1</i>	99,60%	98,70%	100%	100%	Duane retraction syndrome 2, 604356
<i>CHP1</i>	98,50%	89,10%	100%	100%	?Spastic ataxia 9, autosomal recessive, 618438

<i>CHRD1</i>	100%	99,80%	100%	100%	Megalocornea 1, X-linked, 309300
<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>CHRNA2</i>	100%	100%	100%	100%	Epilepsy, nocturnal frontal lobe, type 4, 610353
<i>CHRNA4</i>	98,30%	96,20%	100%	100%	Epilepsy, nocturnal frontal lobe, 1, 600513
<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>CHRNB2</i>	99,30%	96,00%	100%	100%	Epilepsy, nocturnal frontal lobe, 3, 605375
<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>CIB1</i>	97,30%	93,60%	100%	100%	Epidermodysplasia verruciformis 3, 618267
<i>CIB2</i>	99,70%	97,00%	100%	99,90%	Deafness, autosomal recessive 48, 609439 Usher syndrome, type IJ, 614869
<i>CIC</i>	63,30%	63,30%	100%	99,90%	Mental retardation, autosomal dominant 45, 617600
<i>CIDEC</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>CITED2</i>	99,20%	99,00%	100%	100%	Atrial septal defect 8, 614433 Ventricular septal defect 2, 614431
<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>CLCN4</i>	99,90%	98,90%	100%	100%	Raynaud-Claes syndrome, 300114
<i>CLCN5</i>	99,90%	98,30%	100%	100%	Proteinuria, low molecular weight, with hypercalciuric nephrocalcinosis, 308990 Dent disease, 300009 Hypophosphatemic rickets, 300554 Nephrolithiasis, type I, 310468
<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>CLCNKA</i>	99,80%	97,80%	100%	100%	Bartter syndrome, type 4b, digenic, 613090
<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>CLEC7A</i>	100%	100%	100%	100%	Candidiasis, familial, 4, autosomal recessive, 613108
<i>CLIC2</i>	99,90%	96,50%	100%	100%	?Mental retardation, X-linked, syndromic 32, 300886
<i>CLIC5</i>	100%	99,90%	100%	100%	?Deafness, autosomal recessive 103, 616042
<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>CLPX</i>	99,90%	99,40%	100%	100%	?Protoporphria, erythropoietic, 2, 618015
<i>CLRN1</i>	100%	99,80%	100%	100%	Retinitis pigmentosa 61, 614180 Usher syndrome, type 3A, 276902

<i>CLTC</i>	100%	99,90%	100%	100%	Mental retardation, autosomal dominant 56, 617854
<i>CNBP</i>	100%	100%	100%	100%	Myotonic dystrophy 2, 602668
<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>CNKS2</i>	98,60%	93,60%	100%	100%	Mental retardation, X-linked, syndromic, Hoge type, 301008
<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>CNOT1</i>	100%	99,90%	100%	100%	Holoprosencephaly 12, with or without pancreatic agenesis, 618500
<i>CNOT2</i>	99,90%	99,50%	100%	100%	Intellectual developmental disorder with nasal speech, dysmorphic facies, and variable skeletal anomalies, 618608
<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>COL10A1</i>	100%	98,40%	100%	100%	Metaphyseal chondrodysplasia, Schmid type, 156500
<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>COL1A1</i>	99,90%	98,60%	100%	100%	Osteogenesis imperfecta, type I, 166200 Osteogenesis imperfecta, type IV, 166220 Osteogenesis imperfecta, type II, 166210 Caffey disease, 114000 Ehlers-Danlos syndrome, arthrochalasia type, 1, 130060 Osteogenesis imperfecta, type III, 259420
<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>COL2A1</i>	100%	99,70%	100%	100%	Achondrogenesis, type II or hypochondrogenesis, 200610 Spondyloperipheral dysplasia, 271700 Kniest dysplasia, 156550 Stickler syndrome, type I, 108300 Epiphyseal dysplasia, multiple, with myopia and deafness, 132450 Osteoarthritis with mild chondrodysplasia, 604864 Platyspondylic skeletal dysplasia, Torrance type, 151210 Avascular necrosis of the femoral head, 608805

					SED congenita, 183900 Legg-Calve-Perthes disease, 150600 SMED Strudwick type, 184250 Czech dysplasia, 609162 Stickler syndrome, type I, nonsyndromic ocular, 609508 Spondyloepiphyseal dysplasia, Stanescu type, 616583 Vitreoretinopathy with phalangeal epiphyseal dysplasia, 0
<i>COL3A1</i>	99,60%	97,60%	100%	100%	Ehlers-Danlos syndrome, vascular type, 130050 Polymicrogyria with or without vascular-type EDS, 618343
<i>COL4A1</i>	98,70%	97,40%	100%	100%	?Retinal arteries, tortuosity of, 180000 Brain small vessel disease with or without ocular anomalies, 175780 Angiopathy, hereditary, with nephropathy, aneurysms, and muscle cramps, 611773 Microangiopathy and leukoencephalopathy, pontine, autosomal dominant, 618564
<i>COL4A2</i>	100%	99,60%	100%	100%	Brain small vessel disease 2, 614483
<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>COL4A3BP</i>	99,60%	96,50%	100%	100%	Mental retardation, autosomal dominant 34, 616351
<i>COL4A4</i>	99,90%	98,20%	100%	100%	Alport syndrome 2, autosomal recessive, 203780 Hematuria, familial benign, 141200
<i>COL4A5</i>	97,80%	89,00%	100%	99,80%	Alport syndrome 1, X-linked, 301050
<i>COL4A6</i>	97,50%	93,30%	100%	99,90%	?Deafness, X-linked 6, 300914
<i>COL5A1</i>	98,80%	98,00%	100%	99,90%	Ehlers-Danlos syndrome, classic type, 1, 130000
<i>COL5A2</i>	100%	99,50%	100%	100%	Ehlers-Danlos syndrome, classic type, 2, 130010
<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>COL8A2</i>	99,90%	97,90%	100%	100%	Corneal dystrophy, posterior polymorphous 2, 609140 Corneal dystrophy, Fuchs endothelial, 1, 136800
<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>COL9A3</i>	98,70%	95,50%	99,70%	98,60%	Epiphyseal dysplasia, multiple, 3, with or without myopathy, 600969
<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>COMP</i>	93,40%	92,30%	100%	100%	Epiphyseal dysplasia, multiple, 1, 132400 Pseudoachondroplasia, 177170
<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>CORIN</i>	100%	99,90%	100%	100%	Preeclampsia/eclampsia 5, 614595
<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>COX7B</i>	77,40%	48,80%	100%	100%	Linear skin defects with multiple congenital anomalies 2, 300887

<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%	Harderoporphyrin, 121300 Coproporphyrin, 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>CPT1C</i>	100%	99,90%	100%	100%	?Spastic paraparesis 73, autosomal dominant, 616282
<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>CREB1</i>	99,70%	96,70%	100%	100%	Histiocytoma, angiomyomatoid fibrous, somatic, 612160
<i>CREB3L1</i>	100%	99,90%	100%	100%	Osteogenesis imperfecta, type XVI, 616229
<i>CREBBP</i>	99,70%	98,50%	100%	100%	Rubinstein-Taybi syndrome 1, 180849 Menke-Hennekam syndrome 1, 618332
<i>CRELD1</i>	99,90%	95,00%	100%	100%	Atrioventricular septal defect, partial, with heterotaxy syndrome, 606217
<i>CRIP1</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>CRTC1</i>	99,80%	99,70%	100%	100%	Mucoepidermoid salivary gland carcinoma, 0
<i>CRX</i>	100%	100%	100%	100%	Cone-rod retinal dystrophy-2, 120970 Leber congenital amaurosis 7, 613829
<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>CRYBA1</i>	100%	99,40%	100%	100%	Cataract 10, multiple types, 600881
<i>CRYBA2</i>	100%	100%	100%	100%	?Cataract 42, 115900
<i>CRYBA4</i>	100%	100%	100%	100%	Cataract 23, 610425
<i>CRYBB1</i>	100%	100%	100%	100%	Cataract 17, multiple types, 611544
<i>CRYBB2</i>	100%	100%	100%	100%	Cataract 3, multiple types, 601547
<i>CRYBB3</i>	100%	100%	100%	100%	Cataract 22, 609741
<i>CRYGB</i>	100%	99,60%	100%	100%	Cataract 39, multiple types, autosomal dominant, 615188
<i>CRYGC</i>	99,80%	96,90%	100%	100%	Cataract 2, multiple types, 604307
<i>CRYGD</i>	100%	98,90%	100%	100%	Cataract 4, multiple types, 115700
<i>CRYGS</i>	94,10%	86,60%	100%	100%	Cataract 20, multiple types, 116100
<i>CRYM</i>	100%	99,60%	100%	100%	Deafness, autosomal dominant 40, 616357
<i>CSF1R</i>	99,90%	99,30%	100%	100%	Brain abnormalities, neurodegeneration, and dysosteosclerosis, 618476 Leukoencephalopathy, diffuse hereditary, with spheroids, 221820
<i>CSF2RA</i>	89,90%	87,50%	95,60%	92,10%	Surfactant metabolism dysfunction, pulmonary, 4, 300770
<i>CSF2RB</i>	100%	99,00%	100%	100%	Surfactant metabolism dysfunction, pulmonary, 5, 614370
<i>CSF3R</i>	99,60%	98,20%	100%	100%	Neutropenia, severe congenital, 7, autosomal recessive, 617014
<i>CSNK1D</i>	97,70%	95,10%	100%	100%	Advanced sleep-phase syndrome, familial, 2, 615224
<i>CSNK2A1</i>	95,90%	92,20%	92,30%	92,30%	Okur-Chung neurodevelopmental syndrome, 617062
<i>CSPP1</i>	99,80%	98,70%	100%	100%	Joubert syndrome 21, 615636
<i>CSRP3</i>	100%	99,00%	100%	100%	Cardiomyopathy, hypertrophic, 12, 612124 ?Cardiomyopathy, dilated, 1M, 607482
<i>CST3</i>	93,40%	66,00%	100%	100%	Cerebral amyloid angiopathy, 105150
<i>CST6</i>	98,20%	92,50%	100%	100%	?Ectodermal dysplasia 15, hypohidrotic/hair type, 618535
<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>CTBP1</i>	93,20%	86,90%	99,50%	98,60%	Hypotonia, ataxia, developmental delay, and tooth enamel defect syndrome, 617915
<i>CTC1</i>	100%	99,60%	100%	100%	Cerebroretinal microangiopathy with calcifications and cysts, 612199
<i>CTCF</i>	100%	99,30%	100%	100%	Mental retardation, autosomal dominant 21, 615502
<i>CTDP1</i>	88,40%	84,30%	100%	99,40%	Congenital cataracts, facial dysmorphism, and neuropathy, 604168
<i>CTH</i>	100%	100%	100%	100%	Cystathioninuria, 219500 Homocysteine, total plasma, elevated, 0
<i>CTHRC1</i>	93,80%	87,50%	100%	100%	Barrett esophagus/esophageal adenocarcinoma, 614266
<i>CTLA4</i>	100%	100%	100%	100%	Autoimmune lymphoproliferative syndrome, type V, 616100

<i>CTNNA1</i>	99,30%	98,10%	100%	100%	Macular dystrophy, patterned, 2, 608970
<i>CTNNA2</i>	100%	99,80%	100%	100%	Cortical dysplasia, complex, with other brain malformations 9, 618174
<i>CTNNA3</i>	100%	99,80%	100%	100%	Arrhythmogenic right ventricular dysplasia, familial, 13, 615616
<i>CTNNB1</i>	100%	100%	100%	100%	Ovarian cancer, somatic, 167000 Colorectal cancer, somatic, 114500 Medulloblastoma, somatic, 155255 Hepatocellular carcinoma, somatic, 114550 Pilomatricoma, somatic, 132600 Neurodevelopmental disorder with spastic diplegia and visual defects, 615075 Exudative vitreoretinopathy 7, 617572
<i>CTNND1</i>	100%	100%	100%	100%	Blepharocheilodontic syndrome 2, 617681
<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>CUL3</i>	99,90%	98,80%	100%	100%	Pseudohypoaldosteronism, type IIE, 614496
<i>CUL4B</i>	98,00%	90,90%	99,90%	99,20%	Mental retardation, X-linked, syndromic 15 (Cabezas type), 300354
<i>CUL7</i>	100%	99,30%	100%	100%	3-M syndrome 1, 273750
<i>CUX1</i>	96,40%	94,80%	99,30%	98,40%	Global developmental delay with or without impaired intellectual development, 618330
<i>CUX2</i>	99,90%	99,10%	100%	100%	Epileptic encephalopathy, early infantile, 67, 618141
<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>CXCR4</i>	100%	100%	100%	100%	WHIM syndrome, 193670 Myelokathexis, isolated, 0
<i>CXorf56</i>	99,80%	96,70%	100%	100%	?Mental retardation, X-linked 107, 301013
<i>CYB561</i>	92,80%	92,60%	100%	99,90%	Orthostatic hypotension 2, 618182
<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>CYBB</i>	99,90%	99,30%	100%	100%	Immunodeficiency 34, mycobacteriosis, X-linked, 300645 Chronic granulomatous disease, X-linked, 306400
<i>CYC1</i>	97,50%	89,20%	99,90%	98,70%	Mitochondrial complex III deficiency, nuclear type 6, 615453
<i>CYCS</i>	99,10%	94,90%	100%	100%	Thrombocytopenia 4, 612004
<i>CYFIP2</i>	100%	99,40%	100%	100%	Epileptic encephalopathy, early infantile, 65, 618008
<i>CYLD</i>	99,80%	98,00%	100%	100%	Cylindromatosis, familial, 132700 Brooke-Spiegler syndrome, 605041 Trichoepithelioma, multiple familial, 1, 601606
<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>CYP21A2</i>	97,80%	88,40%	100%	100%	Adrenal hyperplasia, congenital, due to 21-hydroxylase deficiency, 201910 Hyperandrogenism, nonclassic type, due to 21-hydroxylase deficiency, 201910
<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>CYP2A6</i>	100%	99,90%	100%	100%	Coumarin resistance, 122700
<i>CYP2B6</i>	99,90%	98,20%	100%	100%	Efavirenz, poor metabolism of, 614546
<i>CYP2C19</i>	100%	98,90%	100%	100%	Clopidogrel, impaired responsiveness to, 609535 Mephénytoïn poor metabolizer, 609535 Proguanil poor metabolizer, 609535 Omeprazole poor metabolizer, 609535
<i>CYP2C9</i>	99,90%	98,40%	100%	100%	Warfarin sensitivity, 122700 Tolbutamide poor metabolizer, 0

<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>DAB1</i>	100%	100%	100%	100%	Spinocerebellar ataxia 37, 615945
<i>DACT1</i>	93,60%	91,10%	100%	99,90%	?Townes-Brocks syndrome 2, 617466
<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>DCAF8</i>	100%	99,90%	100%	100%	?Giant axonal neuropathy 2, autosomal dominant, 610100
<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>DCN</i>	95,70%	95,60%	95,70%	95,70%	Corneal dystrophy, congenital stromal, 610048
<i>DCPS</i>	100%	100%	100%	100%	Al-Raqad syndrome, 616459
<i>DCTN1</i>	100%	98,80%	100%	100%	Perry syndrome, 168605 Neuronopathy, distal hereditary motor, type VIIB, 607641
<i>DCX</i>	100%	99,90%	100%	100%	Subcortical laminar heterotopia, X-linked, 300067 Lissencephaly, X-linked, 300067
<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>DDX3X</i>	86,80%	84,90%	100%	100%	Mental retardation, X-linked 102, 300958
<i>DDX58</i>	99,90%	99,00%	100%	100%	Singleton-Merten syndrome 2, 616298
<i>DDX59</i>	100%	100%	100%	100%	Orofaciodigital syndrome V, 174300
<i>DDX6</i>	97,70%	88,70%	100%	100%	Intellectual developmental disorder with impaired language and dysmorphic facies, 618653
<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>DEPDC5</i>	100%	99,80%	100%	100%	Epilepsy, familial focal, with variable foci 1, 604364
<i>DES</i>	100%	99,70%	100%	100%	?Cardiomyopathy, dilated, 11, 604765 Scapuloperoneal syndrome, neurogenic, Kaeser type, 181400 Myopathy, myofibrillar, 1, 601419
<i>DFNA5</i>	100%	99,20%	100%	100%	Deafness, autosomal dominant 5, 600994
<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>DHX30</i>	100%	99,90%	100%	100%	Neurodevelopmental disorder with severe motor impairment and absent language, 617804
<i>DHX38</i>	100%	99,30%	100%	100%	Retinitis pigmentosa 84, 618220
<i>DIABLO</i>	100%	99,80%	100%	100%	Deafness, autosomal dominant 64, 614152
<i>DIAPH1</i>	99,80%	99,00%	99,50%	97,90%	Seizures, cortical blindness, microcephaly syndrome, 616632 Deafness, autosomal dominant 1, 124900
<i>DIAPH2</i>	95,90%	87,60%	99,90%	99,00%	?Premature ovarian failure 2A, 300511
<i>DIAPH3</i>	99,60%	97,00%	100%	100%	Auditory neuropathy, autosomal dominant, 1, 609129
<i>DICER1</i>	99,80%	99,00%	100%	100%	GLOW syndrome, somatic mosaic, 618272 Rhabdomyosarcoma, embryonal, 2, 180295 Goiter, multinodular 1, with or without Sertoli-Leydig cell tumors, 138800 Pleuropulmonary blastoma, 601200
<i>DIP2B</i>	100%	99,30%	100%	100%	Mental retardation, FRA12A type, 136630
<i>DIS3L2</i>	100%	99,80%	100%	100%	Perlman syndrome, 267000
<i>DKC1</i>	99,80%	98,70%	100%	99,70%	Dyskeratosis congenita, X-linked, 305000
<i>DLAT</i>	100%	99,70%	100%	100%	Pyruvate dehydrogenase E2 deficiency, 245348
<i>DLC1</i>	100%	99,90%	100%	100%	Colorectal cancer, somatic, 114500
<i>DLD</i>	100%	99,70%	100%	100%	Dihydrolipoamide dehydrogenase deficiency, 246900
<i>DLG3</i>	99,10%	93,20%	100%	100%	Mental retardation, X-linked 90, 300850
<i>DLL3</i>	92,10%	87,00%	100%	99,10%	Spondylocostal dysostosis 1, autosomal recessive, 277300
<i>DLL4</i>	100%	99,20%	100%	100%	Adams-Oliver syndrome 6, 616589
<i>DLST</i>	96,70%	90,30%	100%	100%	Paragangliomas 7, 618475
<i>DLX3</i>	99,90%	98,40%	100%	100%	Trichodontosseous syndrome, 190320 Amelogenesis imperfecta, type IV, 104510
<i>DLX4</i>	100%	100%	100%	100%	?Orofacial cleft 15, 616788
<i>DLX5</i>	100%	99,90%	100%	100%	?Split-hand/foot malformation 1 with sensorineural hearing loss, 220600
<i>DMD</i>	99,60%	98,60%	100%	100%	Cardiomyopathy, dilated, 3B, 302045 Becker muscular dystrophy, 300376 Duchenne muscular dystrophy, 310200
<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>DMPK</i>	99,80%	98,40%	100%	100%	Myotonic dystrophy 1, 160900
<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
<i>DNAAF1</i>	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
DNAH17	100%	99,60%	100%	99,90%	Spermatogenic failure 39, 618643
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
DNAJB11	100%	99,50%	100%	100%	Polycystic kidney disease 6 with or without polycystic liver disease, 618061
DNAJB13	100%	100%	100%	100%	Ciliary dyskinesia, primary, 34, 617091
DNAJB2	100%	100%	100%	100%	Spinal muscular atrophy, distal, autosomal recessive, 5, 614881
DNAJB6	96,50%	88,50%	100%	100%	Muscular dystrophy, limb-girdle, autosomal dominant 1, 603511
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
DNAJC5	100%	100%	100%	100%	Ceroid lipofuscinosi, neuronal, 4, Parry type, 162350
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
DNAL4	100%	98,90%	100%	100%	?Mirror movements 3, 616059
DNASE1L3	100%	100%	100%	100%	Systemic lupus erythematosus 16, 614420
DNM1	92,60%	89,10%	97,40%	97,40%	Epileptic encephalopathy, early infantile, 31, 616346
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
DNMT1	99,20%	99,00%	99,70%	99,20%	Neuropathy, hereditary sensory, type IE, 614116 Cerebellar ataxia, deafness, and narcolepsy, autosomal dominant, 604121

<i>DNMT3A</i>	99,80%	98,60%	100%	100%	Heyn-Sproul-Jackson syndrome, 618724 Acute myeloid leukemia, somatic, 601626 Tatton-Brown-Rahman syndrome, 615879
<i>DNMT3B</i>	100%	100%	100%	100%	Immunodeficiency-centromeric instability-facial anomalies syndrome 1, 242860
<i>DOCK2</i>	100%	99,60%	100%	100%	Immunodeficiency 40, 616433
<i>DOCK3</i>	100%	99,00%	100%	100%	Neurodevelopmental disorder with impaired intellectual development, hypotonia, and ataxia, 618292
<i>DOCK6</i>	99,30%	98,90%	100%	100%	Adams-Oliver syndrome 2, 614219
<i>DOCK7</i>	99,80%	98,20%	100%	99,90%	Epileptic encephalopathy, early infantile, 23, 615859
<i>DOCK8</i>	100%	99,60%	100%	100%	Hyper-IgE recurrent infection syndrome, autosomal recessive, 243700
<i>DOK7</i>	94,10%	91,30%	100%	100%	Myasthenic syndrome, congenital, 10, 254300 Fetal akinesia deformation sequence 3, 618389
<i>DOLK</i>	100%	100%	100%	100%	Congenital disorder of glycosylation, type I $\mathrm{m}$ , 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 I $\mathrm{j}$ , 608093 Myasthenic syndrome, congenital, 13, with tubular aggregates, 614750
<i>DPF2</i>	99,90%	98,40%	100%	100%	Coffin-Siris syndrome 7, 618027
<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 I $\mathrm{e}$ , 608799
<i>DPM2</i>	100%	98,70%	100%	100%	Congenital disorder of glycosylation, type I $\mathrm{u}$ , 615042
<i>DPM3</i>	100%	100%	100%	100%	Muscular dystrophy-dystroglycanopathy (limb-girdle), type C, 15, 612937
<i>DPP6</i>	99,70%	97,80%	99,40%	97,60%	Mental retardation, autosomal dominant 33, 616311
<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>DRD4</i>	93,80%	81,80%	100%	99,70%	Autonomic nervous system dysfunction, 0
<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>DSG1</i>	99,30%	97,50%	100%	100%	Keratosis palmoplantaris striata I, AD, 148700 Erythroderma, congenital, with palmoplantar keratoderma, hypotrichosis, and hyper IgE, 615508

<i>DSG2</i>	100%	99,60%	100%	100%	Arrhythmogenic right ventricular dysplasia 10, 610193 Cardiomyopathy, dilated, 1BB, 612877
<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>DSPP</i>	96,80%	86,10%	100%	100%	Dentin dysplasia, type II, 125420 Deafness, autosomal dominant 39, with dentinogenesis, 605594 Dentinogenesis imperfecta, Shields type II, 125490 Dentinogenesis imperfecta, Shields type III, 125500
<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>DTNA</i>	100%	99,90%	100%	100%	Left ventricular noncompaction 1, with or without congenital heart defects, 604169
<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>DUSP6</i>	100%	100%	100%	100%	Hypogonadotropic hypogonadism 19 with or without anosmia, 615269
<i>DVL1</i>	97,20%	95,00%	100%	100%	Robinow syndrome, autosomal dominant 2, 616331
<i>DVL3</i>	100%	100%	100%	100%	Robinow syndrome, autosomal dominant 3, 616894
<i>DYM</i>	97,40%	96,50%	100%	100%	Smith-McCort dysplasia, 607326 Dyggve-Melchior-Clausen disease, 223800
<i>DYNC1H1</i>	99,90%	99,40%	100%	100%	Mental retardation, autosomal dominant 13, 614563 Charcot-Marie-Tooth disease, axonal, type 20, 614228 Spinal muscular atrophy, lower extremity-predominant 1, AD, 158600
<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>DYRK1A</i>	100%	100%	100%	100%	Mental retardation, autosomal dominant 7, 614104
<i>DYRK1B</i>	98,40%	94,00%	100%	100%	Abdominal obesity-metabolic syndrome 3, 615812
<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>EBF3</i>	100%	100%	100%	100%	Hypotonia, ataxia, and delayed development syndrome, 617330
<i>EBP</i>	99,70%	95,80%	100%	100%	Chondrodysplasia punctata, X-linked dominant, 302960 MEND syndrome, 300960
<i>ECE1</i>	98,30%	97,90%	100%	100%	?Hirschsprung disease, cardiac defects, and autonomic dysfunction, 613870
<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>EDA</i>	98,10%	91,60%	100%	99,90%	Tooth agenesis, selective, X-linked 1, 313500 Ectodermal dysplasia 1, hypohidrotic, X-linked, 305100
<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>EDNRA</i>	100%	100%	100%	100%	Mandibulofacial dysostosis with alopecia, 616367
<i>EDNRB</i>	98,00%	93,80%	100%	100%	Waardenburg syndrome, type 4A, 277580 ABCD syndrome, 600501
<i>EED</i>	99,10%	95,90%	100%	100%	Cohen-Gibson syndrome, 617561
<i>EEF1A2</i>	100%	100%	99,90%	99,10%	Epileptic encephalopathy, early infantile, 33, 616409 Mental retardation, autosomal dominant 38, 616393
<i>EEF2</i>	100%	99,90%	100%	100%	?Spinocerebellar ataxia 26, 609306
<i>EFEMP1</i>	100%	99,90%	100%	100%	Doyne honeycomb degeneration of retina, 126600
<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>EFNB1</i>	100%	100%	100%	100%	Craniofrontonasal dysplasia, 304110
<i>EFTUD2</i>	100%	99,80%	100%	100%	Mandibulofacial dysostosis, Guion-Almeida type, 610536
<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 Nonsmall cell lung cancer, response to tyrosine kinase inhibitor in, 211980
<i>EGLN1</i>	89,30%	82,20%	100%	100%	Erythrocytosis, familial, 3, 609820

<i>EGR2</i>	100%	100%	100%	100%	Dejerine-Sottas disease, 145900 Hypomyelinating neuropathy, congenital, 1, 605253 Charcot-Marie-Tooth disease, type 1D, 607678
<i>EHHADH</i>	100%	100%	100%	100%	?Fanconi renotubular syndrome 3, 615605
<i>EHMT1</i>	94,50%	93,70%	99,60%	99,50%	Kleefstra syndrome 1, 610253
<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>EIF2S3</i>	95,40%	89,10%	100%	100%	MEHMO syndrome, 300148
<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>ELANE</i>	99,70%	97,40%	100%	100%	Neutropenia, severe congenital 1, autosomal dominant, 202700 Neutropenia, cyclic, 162800
<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>ELN</i>	99,80%	97,80%	100%	100%	Cutis laxa, autosomal dominant, 123700 Supravalvar aortic stenosis, 185500
<i>ELOVL1</i>	99,80%	97,60%	100%	100%	Ichthyotic keratoderma, spasticity, hypomyelination, and dysmorphic facies, 618527
<i>ELOVL4</i>	100%	99,50%	100%	100%	Spinocerebellar ataxia 34, 133190 Stargardt disease 3, 600110 Ichthyosis, spastic quadriplegia, and mental retardation, 614457
<i>ELOVL5</i>	100%	99,80%	100%	100%	Spinocerebellar ataxia 38, 615957
<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>ELP4</i>	72,80%	70,20%	87,10%	87,10%	?Aniridia 2, 617141
<i>EMC1</i>	100%	99,30%	100%	100%	Cerebellar atrophy, visual impairment, and psychomotor retardation, 616875
<i>EMD</i>	99,90%	98,40%	100%	99,10%	Emery-Dreifuss muscular dystrophy 1, X-linked, 310300
<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>EMX2</i>	100%	100%	100%	100%	Schizencephaly, 269160
<i>ENAM</i>	100%	100%	100%	100%	Amelogenesis imperfecta, type IC, 204650 Amelogenesis imperfecta, type IB, 104500
<i>ENG</i>	99,60%	96,00%	100%	100%	Telangiectasia, hereditary hemorrhagic, type 1, 187300
<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>EP300</i>	99,80%	99,00%	100%	100%	Rubinstein-Taybi syndrome 2, 613684 Menke-Hennekam syndrome 2, 618333 Colorectal cancer, somatic, 114500
<i>EPAS1</i>	99,70%	98,10%	100%	100%	Erythrocytosis, familial, 4, 611783
<i>EPB41</i>	99,40%	97,80%	100%	100%	Elliptocytosis-1, 611804
<i>EPB41L1</i>	99,60%	95,80%	100%	100%	?Mental retardation, autosomal dominant 11, 614257
<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>EPHA2</i>	100%	99,50%	100%	100%	Cataract 6, multiple types, 116600
<i>EPHB2</i>	98,10%	98,10%	99,80%	98,80%	?Bleeding disorder, platelet-type, 22, 618462
<i>EPHB4</i>	100%	99,70%	100%	100%	Capillary malformation-arteriovenous malformation 2, 618196 Lymphatic malformation 7, 617300
<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>ERBB2</i>	98,40%	97,10%	100%	100%	Glioblastoma, somatic, 137800 Adenocarcinoma of lung, somatic, 211980 Gastric cancer, somatic, 613659 Ovarian cancer, somatic, 0

<i>ERBB3</i>	100%	99,80%	100%	100%	?Lethal congenital contractual syndrome 2, 607598
<i>ERBB4</i>	100%	99,50%	100%	100%	Amyotrophic lateral sclerosis 19, 615515
<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>ERF</i>	99,90%	98,50%	100%	100%	Craniosynostosis 4, 600775 Chitayat syndrome, 617180
<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>ERMARD</i>	99,90%	99,00%	100%	100%	?Periventricular nodular heterotopia 6, 615544
<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>ESR2</i>	100%	99,70%	100%	100%	?Ovarian dysgenesis 8, 618187
<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>ETV6</i>	100%	99,90%	100%	100%	Leukemia, acute myeloid, somatic, 601626 Thrombocytopenia 5, 616216
<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>EWSR1</i>	92,30%	85,30%	100%	100%	Neuroepithelioma, 612219 Ewing sarcoma, 612219
<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>EXT1</i>	99,90%	98,40%	100%	100%	Exostoses, multiple, type 1, 133700 Chondrosarcoma, 215300
<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>EYA1</i>	99,90%	99,70%	100%	100%	?Otofaciocervical syndrome, 166780 Anterior segment anomalies with or without cataract, 602588 Branchiootorenal syndrome 1, with or without cataracts, 113650 Branchiootic syndrome 1, 602588
<i>EYA4</i>	100%	99,70%	100%	100%	Deafness, autosomal dominant 10, 601316 ?Cardiomyopathy, dilated, 1J, 605362
<i>EYS</i>	99,70%	98,20%	100%	100%	Retinitis pigmentosa 25, 602772
<i>EZH2</i>	100%	99,50%	100%	100%	Weaver syndrome, 277590
<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 XIIIIB 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>F8</i>	99,50%	98,30%	100%	99,90%	Hemophilia A, 306700
<i>F9</i>	99,60%	97,60%	99,90%	98,80%	Thrombophilia, X-linked, due to factor IX defect, 300807 Hemophilia B, 306900
<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>FAM111A</i>	99,90%	99,30%	100%	100%	Gracile bone dysplasia, 602361 Kenny-Caffey syndrome, type 2, 127000
<i>FAM111B</i>	100%	99,90%	100%	100%	Poikiloderma, hereditary fibrosis, with tendon contractures, myopathy, and pulmonary fibrosis, 615704
<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>FAM58A</i>	83,10%	78,50%	98,90%	94,70%	STAR syndrome, 300707
<i>FAM83H</i>	99,00%	95,00%	100%	100%	Amelogenesis imperfecta, type IIIA, 130900
<i>FAM92A</i>	90,60%	86,00%	100%	100%	?Polydactyly, postaxial, type A9, 618219
<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>FANCM</i>	99,60%	97,30%	100%	100%	Spermatogenic failure 28, 618086 ?Premature ovarian failure 15, 618096

<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>FAS</i>	100%	99,60%	100%	100%	Autoimmune lymphoproliferative syndrome, type IA, 601859 Squamous cell carcinoma, burn scar-related, somatic, 0
<i>FASLG</i>	100%	99,60%	100%	100%	Autoimmune lymphoproliferative syndrome, type IB, 601859
<i>FASTKD2</i>	99,80%	98,90%	100%	100%	?Mitochondrial complex IV deficiency, 220110
<i>FAT2</i>	100%	99,80%	100%	100%	Spinocerebellar ataxia 45, 617769
<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>FBN1</i>	100%	99,90%	100%	100%	Marfan lipodystrophy syndrome, 616914 Marfan syndrome, 154700 MASS syndrome, 604308 Ectopia lentis, familial, 129600 Acromicric dysplasia, 102370 Weill-Marchesani syndrome 2, dominant, 608328 Geleophysic dysplasia 2, 614185 Stiff skin syndrome, 184900
<i>FBN2</i>	100%	99,90%	100%	100%	Contractural arachnodactyly, congenital, 121050 Macular degeneration, early-onset, 616118
<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>FBXO11</i>	96,90%	92,70%	100%	100%	Intellectual developmental disorder with dysmorphic facies and behavioral abnormalities, 618089
<i>FBXO31</i>	96,00%	93,10%	100%	99,90%	?Mental retardation, autosomal recessive 45, 615979
<i>FBXO38</i>	99,90%	99,30%	100%	100%	Neuronopathy, distal hereditary motor, type IID, 615575
<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>FCGR3B</i>	99,40%	98,20%	98,10%	98,00%	Neutropenia, alloimmune neonatal, 0
<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>FDPS</i>	99,10%	93,50%	100%	100%	Porokeratosis 9, multiple types, 616631
<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%	Protoporphria, 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>FGD1</i>	97,30%	92,80%	100%	100%	Mental retardation, X-linked syndromic 16, 305400 Aarskog-Scott syndrome, 305400
<i>FGD4</i>	99,90%	99,40%	100%	100%	Charcot-Marie-Tooth disease, type 4H, 609311
<i>FGF10</i>	100%	99,80%	100%	100%	Aplasia of lacrimal and salivary glands, 180920 LADD syndrome, 149730
<i>FGF12</i>	99,90%	98,10%	100%	100%	Epileptic encephalopathy, early infantile, 47, 617166
<i>FGF14</i>	100%	100%	100%	100%	Spinocerebellar ataxia 27, 609307
<i>FGF16</i>	100%	99,80%	100%	100%	Metacarpal 4-5 fusion, 309630
<i>FGF17</i>	100%	100%	100%	100%	Hypogonadotropic hypogonadism 20 with or without anosmia, 615270
<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>FGF5</i>	100%	100%	100%	100%	Trichomegaly, 190330
<i>FGF8</i>	98,20%	88,90%	100%	99,60%	Hypogonadotropic hypogonadism 6 with or without anosmia, 612702
<i>FGF9</i>	100%	100%	100%	100%	Multiple synostoses syndrome 3, 612961
<i>FGFR1</i>	100%	99,90%	100%	100%	Pfeiffer syndrome, 101600 Jackson-Weiss syndrome, 123150 Trigonocephaly 1, 190440 Hypogonadotropic hypogonadism 2 with or without anosmia, 147950 HEARTsfield syndrome, 615465 Osteoglophonic dysplasia, 166250 Encephalocraniocutaneous lipomatosis, somatic mosaic, 613001
<i>FGFR2</i>	97,70%	97,10%	100%	100%	Apert syndrome, 101200 Jackson-Weiss syndrome, 123150 Saethre-Chotzen syndrome, 101400

					Gastric cancer, somatic, 613659 Scaphocephaly, maxillary retrusion, and mental retardation, 609579 Bent bone dysplasia syndrome, 614592 LADD syndrome, 149730 Craniofacial-skeletal-dermatologic dysplasia, 101600 Pfeiffer syndrome, 101600 Crouzon syndrome, 123500 Beare-Stevenson cutis gyrata syndrome, 123790 Antley-Bixler syndrome without genital anomalies or disordered steroidogenesis, 207410 Craniosynostosis, nonspecific, 0 Scaphocephaly and Axenfeld-Rieger anomaly, 0
<i>FGFR3</i>	99,80%	97,70%	100%	99,80%	Muenke syndrome, 602849 Nevus, epidermal, somatic, 162900 Thanatophoric dysplasia, type II, 187601 Bladder cancer, somatic, 109800 CATSHL syndrome, 610474 Crouzon syndrome with acanthosis nigricans, 612247 Hypochondroplasia, 146000 LADD syndrome, 149730 Achondroplasia, 100800 Thanatophoric dysplasia, type I, 187600 Colorectal cancer, somatic, 114500 Spermatocytic seminoma, somatic, 273300 Cervical cancer, somatic, 603956 SADDAN, 616482
<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>FHL1</i>	99,70%	95,80%	100%	100%	Reducing body myopathy, X-linked 1a, severe, infantile or early childhood onset, 300717 Scapuloperoneal myopathy, X-linked dominant, 300695 Reducing body myopathy, X-linked 1b, with late childhood or adult onset, 300718 ?Uruguay faciocardiomusculoskeletal syndrome, 300280 Emery-Dreifuss muscular dystrophy 6, X-linked, 300696 Myopathy, X-linked, with postural muscle atrophy, 300696
<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>FIGLA</i>	99,70%	96,00%	100%	100%	Premature ovarian failure 6, 612310
<i>FMR1</i>	96,10%	92,10%	100%	100%	Premature ovarian failure 1, 311360 Fragile X tremor/ataxia syndrome, 300623 Fragile X syndrome, 300624
<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>FLCN</i>	100%	100%	100%	100%	Pneumothorax, primary spontaneous, 173600 Renal carcinoma, chromophobe, somatic, 144700 Birt-Hogg-Dube syndrome, 135150 Colorectal cancer, somatic, 114500
<i>FLG</i>	100%	99,90%	100%	100%	Ichthyosis vulgaris, 146700
<i>FLG2</i>	100%	100%	99,90%	99,90%	Peeling skin syndrome 6, 618084
<i>FLI1</i>	99,50%	98,20%	100%	100%	Bleeding disorder, platelet-type, 21, 617443
<i>FLNA</i>	100%	99,90%	100%	100%	Otopalatodigital syndrome, type I, 311300 Congenital short bowel syndrome, 300048 Otopalatodigital syndrome, type II, 304120 Intestinal pseudoobstruction, neuronal, 300048 Melnick-Needles syndrome, 309350 Cardiac valvular dysplasia, X-linked, 314400 ?FG syndrome 2, 300321 Heterotopia, periventricular, 1, 300049 Terminal osseous dysplasia, 300244 Frontometaphyseal dysplasia 1, 305620

<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>FLNC</i>	100%	99,60%	100%	100%	Myopathy, myofibrillar, 5, 609524 Cardiomyopathy, familial restrictive 5, 617047 Myopathy, distal, 4, 614065 Cardiomyopathy, familial hypertrophic, 26, 0
<i>FLRT3</i>	100%	100%	100%	100%	Hypogonadotropic hypogonadism 21 with anosmia, 615271
<i>FLT3</i>	99,90%	98,90%	100%	100%	Leukemia, acute myeloid, somatic, 601626 Leukemia, acute lymphoblastic, somatic, 613065 Leukemia, acute myeloid, reduced survival in, somatic, 601626
<i>FLT4</i>	99,20%	98,30%	100%	100%	Congenital heart defects, multiple types, 7, 618780 Hemangioma, capillary infantile, somatic, 602089 Lymphatic malformation 1, 153100
<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>FN1</i>	100%	99,30%	100%	100%	Glomerulopathy with fibronectin deposits 2, 601894 Spondylometaphyseal dysplasia, corner fracture type, 184255
<i>FOLR1</i>	100%	100%	100%	100%	Neurodegeneration due to cerebral folate transport deficiency, 613068
<i>FOXC1</i>	98,00%	89,60%	99,90%	98,50%	Axenfeld-Rieger syndrome, type 3, 602482 Anterior segment dysgenesis 3, multiple subtypes, 601631
<i>FOXC2</i>	100%	96,70%	100%	99,80%	Lymphedema-distichiasis syndrome, 153400 Lymphedema-distichiasis syndrome with renal disease and diabetes mellitus, 153400
<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>FOXF1</i>	99,90%	98,80%	100%	100%	Alveolar capillary dysplasia with misalignment of pulmonary veins, 265380
<i>FOXG1</i>	88,60%	82,10%	99,20%	96,40%	Rett syndrome, congenital variant, 613454
<i>FOXI1</i>	100%	100%	100%	100%	Enlarged vestibular aqueduct, 600791
<i>FOXL2</i>	99,70%	95,50%	99,80%	98,00%	Blepharophimosis, epicanthus inversus, and ptosis, type 2, 110100 Premature ovarian failure 3, 608996 Blepharophimosis, epicanthus inversus, and ptosis, type 1, 110100
<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>FOXO1</i>	99,50%	93,90%	99,20%	96,90%	Rhabdomyosarcoma, alveolar, 268220
<i>FOXP1</i>	100%	99,80%	100%	100%	Mental retardation with language impairment and with or without autistic features, 613670
<i>FOXP2</i>	99,50%	99,20%	100%	100%	Speech-language disorder-1, 602081
<i>FOXP3</i>	99,20%	95,50%	100%	100%	Immunodysregulation, polyendocrinopathy, and enteropathy, X-linked, 304790
<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>FRMD7</i>	99,90%	99,10%	100%	99,60%	Nystagmus 1, congenital, X-linked, 310700 Nystagmus, infantile periodic alternating, X-linked, 310700
<i>FRMPD4</i>	99,80%	98,50%	100%	100%	Mental retardation, X-linked 104, 300983
<i>FRRS1L</i>	79,70%	69,10%	99,20%	95,80%	Epileptic encephalopathy, early infantile, 37, 616981
<i>FSCN2</i>	100%	100%	100%	100%	Retinitis pigmentosa 30, 607921
<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>FSIP2</i>	99,60%	98,20%	100%	100%	Spermatogenic failure 34, 618153
<i>FTCD</i>	95,70%	91,00%	100%	100%	Glutamate formiminotransferase deficiency, 229100
<i>FTH1</i>	94,00%	76,60%	100%	100%	?Hemochromatosis, type 5, 615517
<i>FTL</i>	98,50%	89,40%	100%	100%	Hyperferritinemia-cataract syndrome, 600886 Neurodegeneration with brain iron accumulation 3, 606159 L-ferritin deficiency, dominant and recessive, 615604
<i>FTO</i>	83,80%	83,70%	94,20%	94,20%	Growth retardation, developmental delay, facial dysmorphism, 612938
<i>FTSJ1</i>	98,00%	93,80%	100%	100%	Mental retardation, X-linked 9/44, 309549
<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>FUS</i>	99,20%	96,40%	100%	100%	Amyotrophic lateral sclerosis 6, with or without frontotemporal dementia, 608030 Essential tremor, hereditary, 4, 614782
<i>FUT6</i>	100%	100%	100%	100%	Fucosyltransferase 6 deficiency, 613852
<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>FXYD2</i>	100%	100%	100%	100%	Hypomagnesemia 2, renal, 154020
<i>FYB1</i>	99,40%	97,00%	100%	100%	Thrombocytopenia 3, 273900
<i>FYCO1</i>	100%	99,90%	100%	100%	Cataract 18, autosomal recessive, 610019
<i>FZD2</i>	99,90%	98,20%	100%	100%	Omodyplasia 2, 164745
<i>FZD4</i>	100%	100%	100%	100%	Exudative vitreoretinopathy 1, 133780 Retinopathy of prematurity, 133780
<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>G6PD</i>	99,30%	98,10%	100%	99,30%	Hemolytic anemia, G6PD deficient (favism), 300908
<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>GABBR2</i>	96,20%	92,00%	99,10%	98,40%	Neurodevelopmental disorder with poor language and loss of hand skills, 617903 Epileptic encephalopathy, early infantile, 59, 617904
<i>GABRA1</i>	100%	100%	100%	100%	Epileptic encephalopathy, early infantile, 19, 615744
<i>GABRA2</i>	99,70%	98,60%	100%	100%	Epileptic encephalopathy, early infantile, 78, 618557
<i>GABRA5</i>	100%	99,90%	100%	100%	Epileptic encephalopathy, early infantile, 79, 618559
<i>GABRB1</i>	100%	100%	100%	100%	Epileptic encephalopathy, early infantile, 45, 617153
<i>GABRB2</i>	100%	99,90%	100%	100%	Epileptic encephalopathy, infantile or early childhood, 2, 617829
<i>GABRB3</i>	99,60%	98,20%	100%	100%	Epileptic encephalopathy, early infantile, 43, 617113
<i>GABRG2</i>	90,80%	90,20%	93,00%	93,00%	Epileptic encephalopathy, early infantile, 74, 618396 Febrile seizures, familial, 8, 607681 Epilepsy, generalized, with febrile seizures plus, type 3, 607681
<i>GAD1</i>	100%	99,90%	100%	100%	?Cerebral palsy, spastic quadriplegic, 1, 603513
<i>GAL</i>	100%	99,80%	100%	100%	?Epilepsy, familial temporal lobe, 8, 616461
<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>GANAB</i>	99,90%	99,00%	100%	100%	Polycystic kidney disease 3, 600666
<i>GARS</i>	99,90%	99,10%	100%	100%	Charcot-Marie-Tooth disease, type 2D, 601472 Neuronopathy, distal hereditary motor, type VA, 600794

<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>GATA1</i>	99,80%	98,40%	100%	100%	Leukemia, megakaryoblastic, with or without Down syndrome, somatic, 190685 Anemia, X-linked, with/without neutropenia and/or platelet abnormalities, 300835 Thrombocytopenia, X-linked, with or without dyserythropoietic anemia, 300367 Thrombocytopenia with beta-thalassemia, X-linked, 314050
<i>GATA2</i>	100%	98,30%	100%	100%	Emberger syndrome, 614038 Immunodeficiency 21, 614172
<i>GATA3</i>	100%	100%	100%	100%	Hypoparathyroidism, sensorineural deafness, and renal dysplasia, 146255
<i>GATA4</i>	84,10%	74,50%	100%	99,90%	?Testicular anomalies with or without congenital heart disease, 615542 Tetralogy of Fallot, 187500 Atrioventricular septal defect 4, 614430 Atrial septal defect 2, 607941 Ventricular septal defect 1, 614429
<i>GATA5</i>	99,70%	93,70%	100%	100%	Congenital heart defects, multiple types, 5, 617912
<i>GATA6</i>	89,80%	83,00%	99,60%	98,00%	Pancreatic agenesis and congenital heart defects, 600001 Atrial septal defect 9, 614475 Atrioventricular septal defect 5, 614474 Persistent truncus arteriosus, 217095 Tetralogy of Fallot, 187500
<i>GATAD1</i>	99,90%	97,90%	100%	99,10%	?Cardiomyopathy, dilated, 2B, 614672
<i>GATAD2B</i>	100%	100%	100%	100%	Mental retardation, autosomal dominant 18, 615074
<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%	Glutaric aciduria, 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>GCM2</i>	100%	100%	100%	100%	Hyperparathyroidism 4, 617343 Hypoparathyroidism, familial isolated, 146200
<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>GDF2</i>	100%	100%	100%	100%	Telangiectasia, hereditary hemorrhagic, type 5, 615506
<i>GDF3</i>	100%	100%	100%	100%	Microphtalmia, isolated 7, 613704 Microphtalmia with coloboma 6, 613703 Klippel-Feil syndrome 3, autosomal dominant, 613702
<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>GDF6</i>	100%	99,90%	100%	99,40%	Leber congenital amaurosis 17, 615360 Klippel-Feil syndrome 1, autosomal dominant, 118100 Multiple synostoses syndrome 4, 617898 Microphtalmia with coloboma 6, digenic, 613703 Microphtalmia, isolated 4, 613094
<i>GDF9</i>	100%	100%	100%	100%	?Premature ovarian failure 14, 618014
<i>GDI1</i>	99,80%	98,70%	100%	100%	Mental retardation, X-linked 41, 300849
<i>GDNF</i>	100%	100%	100%	100%	Central hypoventilation syndrome, 209880
<i>GEMIN4</i>	100%	99,50%	100%	100%	Neurodevelopmental disorder with microcephaly, cataracts, and renal abnormalities, 617913
<i>GFAP</i>	91,80%	89,70%	100%	100%	Alexander disease, 203450
<i>GFER</i>	99,60%	93,90%	100%	100%	Myopathy, mitochondrial progressive, with congenital cataract, hearing loss, and developmental delay, 613076

<i>GF1</i>	100%	99,20%	100%	100%	?Neutropenia, nonimmune chronic idiopathic, of adults, 607847 Neutropenia, severe congenital 2, autosomal dominant, 613107
<i>GF1B</i>	98,50%	96,70%	100%	100%	Bleeding disorder, platelet-type, 17, 187900
<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%	?Glutathioninuria, 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>GJA3</i>	100%	99,70%	100%	100%	Cataract 14, multiple types, 601885
<i>GJA5</i>	100%	100%	100%	100%	Atrial fibrillation, familial, 11, 614049 Atrial standstill, digenic (GJA5/SCN5A), 108770
<i>GJA8</i>	100%	100%	100%	100%	Cataract 1, multiple types, 116200
<i>GJB1</i>	100%	100%	100%	100%	Charcot-Marie-Tooth neuropathy, X-linked dominant, 1, 302800
<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>GJB3</i>	100%	100%	100%	100%	Deafness, autosomal dominant 2B, 612644 Deafness, digenic, GJB2/GJB3, 220290 Erythrokeratoderma variabilis et progressiva 1, 133200 Deafness, autosomal recessive, 0 Deafness, autosomal dominant, with peripheral neuropathy, 0
<i>GJB4</i>	100%	100%	100%	100%	Erythrokeratoderma variabilis et progressiva 2, 617524
<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>GK</i>	88,90%	70,40%	100%	99,90%	Glycerol kinase deficiency, 307030
<i>GLA</i>	99,80%	96,60%	100%	100%	Fabry disease, 301500 Fabry disease, cardiac variant, 301500
<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>GLI1</i>	100%	99,80%	100%	100%	Polydactyly, postaxial, type A8, 618123 Polydactyly, preaxial I, 174400
<i>GLI2</i>	99,10%	97,40%	100%	99,80%	Culler-Jones syndrome, 615849 Holoprosencephaly 9, 610829
<i>GLI3</i>	100%	99,50%	100%	100%	Polydactyly, postaxial, types A1 and B, 174200 Greig cephalopolysyndactyly syndrome, 175700 Polydactyly, preaxial, type IV, 174700 Pallister-Hall syndrome, 146510
<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>GLMN</i>	99,30%	94,70%	100%	100%	Glomuvenous malformations, 138000

<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>GLUD1</i>	94,20%	82,90%	100%	100%	Hyperinsulinism-hyperammonemia syndrome, 606762
<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>GMNN</i>	99,80%	97,40%	100%	100%	Meier-Gorlin syndrome 6, 616835
<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>GNA11</i>	99,90%	95,00%	100%	100%	Hypocalciuric hypercalcemia, type II, 145981 Hypocalcemia, autosomal dominant 2, 615361
<i>GNAI2</i>	100%	100%	100%	100%	Ventricular tachycardia, idiopathic, 192605 Pituitary adenoma, ACTH-secreting, somatic, 0
<i>GNAI3</i>	99,30%	95,20%	100%	100%	Auriculocondylar syndrome 1, 602483
<i>GNAL</i>	96,80%	93,40%	100%	100%	Dystonia 25, 615073
<i>GNAO1</i>	93,80%	93,80%	100%	100%	Epileptic encephalopathy, early infantile, 17, 615473 Neurodevelopmental disorder with involuntary movements, 617493
<i>GNAQ</i>	84,30%	74,90%	100%	100%	Sturge-Weber syndrome, somatic, mosaic, 185300 Capillary malformations, congenital, 1, somatic, mosaic, 163000
<i>GNAS</i>	100%	99,90%	100%	99,90%	ACTH-independent macronodular adrenal hyperplasia, 219080 Pseudohypoparathyroidism Ic, 612462 Pseudohypoparathyroidism Ib, 603233 Pseudopseudohypoparathyroidism, 612463 McCune-Albright syndrome, somatic, mosaic, 174800 Osseous heteroplasia, progressive, 166350 Pituitary adenoma 3, multiple types, somatic, 617686 Pseudohypoparathyroidism Ia, 103580
<i>GNAS-AS1</i>	NC	NC	NC	NC	Pseudohypoparathyroidism, type IB, 603233
<i>GNAT1</i>	100%	100%	100%	100%	Night blindness, congenital stationary, type 1G, 616389 Night blindness, congenital stationary, autosomal dominant 3, 610444
<i>GNAT2</i>	99,90%	99,00%	100%	100%	Achromatopsia 4, 613856

<i>GNB1</i>	100%	100%	100%	100%	Mental retardation, autosomal dominant 42, 616973 Leukemia, acute lymphoblastic, somatic, 613065
<i>GNB3</i>	100%	100%	100%	100%	Night blindness, congenital stationary, type 1H, 617024
<i>GNB4</i>	100%	100%	100%	100%	Charcot-Marie-Tooth disease, dominant intermediate F, 615185
<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 chondrodyplasia 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>GNRH1</i>	100%	93,70%	100%	100%	?Hypogonadotropic hypogonadism 12 with or without anosmia, 614841
<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>GOT1</i>	100%	99,30%	100%	100%	Aspartate aminotransferase, serum level of, QTL1, 614419
<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>GPC3</i>	99,10%	94,70%	100%	100%	Simpson-Golabi-Behmel syndrome, type 1, 312870 Wilms tumor, somatic, 194070
<i>GPC4</i>	100%	99,60%	100%	100%	Keipert syndrome, 301026
<i>GPC6</i>	100%	100%	100%	100%	Omodyplasia 1, 258315
<i>GPD1</i>	100%	100%	100%	100%	Hypertriglyceridemia, transient infantile, 614480
<i>GPD1L</i>	100%	99,80%	100%	100%	Brugada syndrome 2, 611777
<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>GPR101</i>	100%	100%	100%	100%	Pituitary adenoma 2, GH-secreting, 300943
<i>GPR143</i>	85,80%	76,40%	99,80%	97,90%	Ocular albinism, type I, Nettleship-Falls type, 300500 Nystagmus 6, congenital, X-linked, 300814
<i>GPR179</i>	100%	100%	100%	100%	Night blindness, congenital stationary (complete), 1E, autosomal recessive, 614565
<i>GPR68</i>	99,50%	96,70%	100%	100%	Amelogenesis imperfecta, hypomaturation type, IIA6, 617217
<i>GPR88</i>	99,40%	95,10%	98,80%	94,90%	?Chorea, childhood-onset, with psychomotor retardation, 616939
<i>GPRASP2</i>	100%	99,70%	100%	100%	?Deafness, X-linked 7, 301018
<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>GREB1L</i>	100%	99,90%	100%	100%	Renal hypodysplasia/aplasia 3, 617805
<i>GREM2</i>	100%	100%	100%	100%	Tooth agenesis, selective, 9, 617275
<i>GRHL2</i>	100%	100%	100%	100%	Deafness, autosomal dominant 28, 608641 Corneal dystrophy, posterior polymorphous, 4, 618031 Ectodermal dysplasia/short stature syndrome, 616029
<i>GRHL3</i>	100%	100%	100%	100%	Van der Woude syndrome 2, 606713
<i>GRHPR</i>	84,20%	81,30%	100%	99,30%	Hyperoxaluria, primary, type II, 260000
<i>GRIA3</i>	99,70%	96,10%	100%	99,60%	Mental retardation, X-linked 94, 300699
<i>GRIA4</i>	99,80%	99,00%	100%	100%	Neurodevelopmental disorder with or without seizures and gait abnormalities, 617864
<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>GRIN2A</i>	100%	100%	100%	100%	Epilepsy, focal, with speech disorder and with or without mental retardation, 245570
<i>GRIN2B</i>	99,80%	99,20%	100%	100%	Epileptic encephalopathy, early infantile, 27, 616139 Mental retardation, autosomal dominant 6, 613970
<i>GRIN2D</i>	79,80%	65,40%	93,90%	88,70%	Epileptic encephalopathy, early infantile, 46, 617162
<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>GSN</i>	95,80%	93,50%	99,90%	99,30%	Amyloidosis, Finnish type, 105120
<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>GUCA1A</i>	100%	100%	100%	100%	Cone-rod dystrophy 14, 602093 Cone dystrophy-3, 602093
<i>GUCA1B</i>	100%	100%	100%	100%	Retinitis pigmentosa 48, 613827
<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>GULOP</i>	NC	NC	NC	NC	Scurvy, 0
<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>H19</i>	NC	NC	NC	NC	Wilms tumor 2, 194071 Silver-Russell syndrome, 180860 Beckwith-Wiedemann syndrome, 130650
<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>HBA1</i>	100%	99,80%	100%	100%	Hemoglobin H disease, nondeletional, 613978 Thalassemias, alpha-, 604131 Erythrocytosis, 7, 617981 Methemoglobinemia, alpha type, 617973 Heinz body anemias, alpha-, 140700
<i>HBA2</i>	98,90%	93,10%	100%	100%	Thalassemia, alpha-, 604131 Erythrocytosis 7, 617981 Heinz body anemia, 140700 Hemoglobin H disease, deletional and nondeletional, 613978
<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>HBD</i>	100%	100%	100%	100%	Thalassemia, delta-, 0 Thalassemia due to Hb Lepore, 0
<i>HBG1</i>	97,70%	94,90%	98,40%	97,00%	Fetal hemoglobin quantitative trait locus 1, 141749
<i>HBG2</i>	100%	100%	87,70%	87,70%	Fetal hemoglobin quantitative trait locus 1, 141749 Cyanosis, transient neonatal, 613977
<i>HCCS</i>	99,80%	97,60%	100%	100%	Linear skin defects with multiple congenital anomalies 1, 309801
<i>HCFC1</i>	98,30%	93,60%	100%	100%	Mental retardation, X-linked 3 (methylmalonic aciduria and homocystinuria, cblX type ), 309541

<i>HCN1</i>	100%	99,70%	100%	100%	Generalized epilepsy with febrile seizures plus, type 10, 618482 Epileptic encephalopathy, early infantile, 24, 615871
<i>HCN4</i>	100%	99,30%	100%	99,90%	Brugada syndrome 8, 613123 Sick sinus syndrome 2, 163800
<i>HCRT</i>	89,80%	81,10%	100%	99,90%	?Narcolepsy 1, 161400
<i>HDAC6</i>	99,50%	97,40%	100%	100%	?Chondrodysplasia with platyspondyly, distinctive brachydactyly, hydrocephaly, and microphthalmia, 300863
<i>HDAC8</i>	100%	99,80%	100%	100%	Cornelia de Lange syndrome 5, 300882
<i>HECW2</i>	100%	99,10%	100%	100%	Neurodevelopmental disorder with hypotonia, seizures, and absent language, 617268
<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>HIST1H1E</i>	100%	100%	100%	100%	Rahman syndrome, 617537
<i>HIVEP2</i>	100%	100%	100%	100%	Mental retardation, autosomal dominant 43, 616977
<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>HMBS</i>	99,90%	99,40%	100%	100%	Porphyria, acute intermittent, 176000 Porphyria, acute intermittent, nonerythroid variant, 176000
<i>HMGB3</i>	78,60%	67,20%	100%	100%	?Microphthalmia, syndromic 13, 300915
<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>HNF1A</i>	100%	99,80%	100%	100%	MODY, type III, 600496 Hepatic adenoma, somatic, 142330 Renal cell carcinoma, 144700 Diabetes mellitus, insulin-dependent, 20, 612520
<i>HNF1B</i>	99,30%	96,10%	100%	100%	Renal cysts and diabetes syndrome, 137920 Diabetes mellitus, noninsulin-dependent, 125853
<i>HNF4A</i>	99,90%	99,00%	100%	100%	MODY, type I, 125850 Fanconi renotubular syndrome 4, with maturity-onset diabetes of the young, 616026
<i>HNMT</i>	100%	99,80%	100%	100%	Mental retardation, autosomal recessive 51, 616739
<i>HNRNPA1</i>	98,80%	90,00%	100%	100%	Amyotrophic lateral sclerosis 20, 615426 ?Inclusion body myopathy with early-onset Paget disease without frontotemporal dementia 3, 615424
<i>HNRNPA2B1</i>	99,90%	99,40%	100%	100%	?Inclusion body myopathy with early-onset Paget disease with or without frontotemporal dementia 2, 615422
<i>HNRNPDL</i>	97,30%	88,40%	100%	100%	Muscular dystrophy, limb-girdle, autosomal dominant 3, 609115
<i>HNRNPH2</i>	100%	100%	100%	100%	Mental retardation, X-linked, syndromic, Bain type, 300986
<i>HNRNPK</i>	91,50%	82,80%	100%	100%	Au-Kline syndrome, 616580
<i>HNRNPU</i>	99,90%	98,90%	100%	100%	Epileptic encephalopathy, early infantile, 54, 617391
<i>HOGA1</i>	100%	96,40%	100%	100%	Hyperoxaluria, primary, type III, 613616
<i>HOMER2</i>	99,50%	99,40%	100%	100%	?Deafness, autosomal dominant 68, 616707
<i>HOXA1</i>	100%	100%	100%	100%	Athabaskan brainstem dysgenesis syndrome, 601536 Bosley-Salih-Alorainy syndrome, 601536
<i>HOXA11</i>	97,10%	87,50%	100%	100%	Radioulnar synostosis with amegakaryocytic thrombocytopenia 1, 605432
<i>HOXA13</i>	77,70%	69,00%	89,70%	79,70%	?Guttmacher syndrome, 176305 Hand-foot-uterus syndrome, 140000
<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>HOXD10</i>	100%	100%	100%	100%	Charcot-Marie-Tooth disease, foot deformity of, 192950 Vertical talus, congenital, 192950
<i>HOXD13</i>	99,90%	98,60%	100%	100%	Brachydactyly, type D, 113200 Brachydactyly, type E, 113300 ?Brachydactyly-syndactyly syndrome, 610713 Syndactyly, type V, 186300 Synpolydactyly 1, 186000
<i>HPCA</i>	100%	100%	100%	100%	Dystonia 2, torsion, autosomal recessive, 224500
<i>HPD</i>	100%	100%	100%	100%	Tyrosinemia, type III, 276710 Hawkinsuria, 140350
<i>HPGD</i>	100%	98,90%	100%	100%	Digital clubbing, isolated congenital, 119900 Hypertrophic osteoarthropathy, primary, autosomal recessive 1, 259100 Cranioosteoarthropathy, 259100
<i>HPRT1</i>	99,30%	91,80%	100%	99,30%	HPRT-related gout, 300323 Lesch-Nyhan syndrome, 300322
<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>HRAS</i>	100%	100%	100%	100%	Nevus sebaceous or woolly hair nevus, somatic, 162900 Congenital myopathy with excess of muscle spindles, 218040 Bladder cancer, somatic, 109800 Thyroid carcinoma, follicular, somatic, 188470 Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaic, 163200 Spitz nevus or nevus spilus, somatic, 137550 Costello syndrome, 218040
<i>HRG</i>	95,00%	94,20%	100%	100%	Thrombophilia due to HRG deficiency, 613116
<i>HS6ST2</i>	97,60%	96,60%	100%	100%	?Paganini-Miozzo syndrome, 301025
<i>HSD11B1</i>	100%	99,60%	100%	100%	Cortisone reductase deficiency 2, 614662
<i>HSD11B2</i>	86,00%	82,70%	99,90%	98,10%	Apparent mineralocorticoid excess, 218030
<i>HSD17B10</i>	100%	99,10%	100%	100%	HSD10 mitochondrial disease, 300438
<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>HSF4</i>	99,60%	97,20%	100%	100%	Cataract 5, multiple types, 116800
<i>HSPA9</i>	88,50%	84,50%	100%	100%	Even-plus syndrome, 616854 Anemia, sideroblastic, 4, 182170
<i>HSPB1</i>	98,80%	91,60%	100%	100%	Neuronopathy, distal hereditary motor, type IIB, 608634 Charcot-Marie-Tooth disease, axonal, type 2F, 606595
<i>HSPB3</i>	100%	100%	100%	100%	?Neuronopathy, distal hereditary motor, type IIC, 613376
<i>HSPB8</i>	100%	100%	100%	100%	Neuronopathy, distal hereditary motor, type IIA, 158590 Charcot-Marie-Tooth disease, axonal, type 2L, 608673
<i>HSPD1</i>	98,80%	93,70%	100%	100%	Spastic paraparesis 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>HTR1A</i>	100%	100%	100%	100%	Periodic fever, menstrual cycle dependent, 614674
<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>HTT</i>	97,80%	96,60%	100%	99,90%	Huntington disease, 143100 Lopes-Maciel-Rodan syndrome, 617435
<i>HUWE1</i>	99,20%	95,80%	100%	100%	Mental retardation, X-linked syndromic, Turner type, 309590
<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>HYOU1</i>	100%	99,50%	100%	100%	?Immunodeficiency 59 and hypoglycemia, 233600
<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 paraparesis 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>IDH2</i>	99,70%	97,40%	100%	99,80%	D-2-hydroxyglutaric aciduria 2, 613657
<i>IDH3B</i>	95,40%	95,40%	100%	100%	Retinitis pigmentosa 46, 612572

<i>IDS</i>	99,90%	98,00%	100%	100%	Mucopolysaccharidosis II, 309900
<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>IFIH1</i>	99,70%	98,40%	100%	100%	Aicardi-Goutieres syndrome 7, 615846 Singleton-Merten syndrome 1, 182250
<i>IFITM5</i>	99,30%	95,60%	100%	100%	Osteogenesis imperfecta, type V, 610967
<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>IGBP1</i>	99,50%	96,20%	100%	100%	Corpus callosum, agenesis of, with mental retardation, ocular coloboma and micrognathia, 300472
<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>IGF2</i>	100%	100%	100%	100%	?Growth restriction, severe, with distinctive facies, 616489
<i>IGF2R</i>	98,90%	97,30%	99,90%	99,70%	Hepatocellular carcinoma, somatic, 114550
<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>IGHG2</i>	68,80%	49,60%	100%	100%	IgG2 deficiency, selective, 0
<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>IGSF1</i>	99,50%	96,30%	100%	100%	Hypothyroidism, central, and testicular enlargement, 300888
<i>IGSF3</i>	95,40%	94,00%	100%	100%	?Lacrimal duct defect, 149700
<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>IKBKG</i>	84,10%	77,20%	100%	100%	Immunodeficiency 33, 300636 Incontinentia pigmenti, 308300 Immunodeficiency, isolated, 300584 Ectodermal dysplasia and immunodeficiency 1, 300291 Invasive pneumococcal disease, recurrent isolated, 2, 300640 Ectodermal, dysplasia, anhidrotic, lymphedema and immunodeficiency, 300301
<i>IKZF1</i>	100%	100%	100%	100%	Immunodeficiency, common variable, 13, 616873
<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>IL17F</i>	99,90%	97,20%	100%	100%	?Candidiasis, familial, 6, autosomal dominant, 613956
<i>IL17RA</i>	100%	99,40%	100%	100%	Immunodeficiency 51, 613953
<i>IL17RC</i>	100%	99,90%	100%	100%	Candidiasis, familial, 9, 616445
<i>IL17RD</i>	99,90%	99,10%	100%	100%	Hypogonadotropic hypogonadism 18 with or without anosmia, 615267
<i>IL1RAPL1</i>	99,80%	98,60%	100%	100%	Mental retardation, X-linked 21/34, 300143
<i>IL1RN</i>	100%	100%	100%	100%	Interleukin 1 receptor antagonist deficiency, 612852
<i>IL21</i>	99,40%	95,70%	100%	100%	?Immunodeficiency, common variable, 11, 615767
<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>IL2RG</i>	99,80%	97,10%	100%	100%	Severe combined immunodeficiency, X-linked, 300400 Combined immunodeficiency, X-linked, moderate, 312863
<i>IL31RA</i>	99,90%	99,90%	100%	100%	?Amyloidosis, primary localized cutaneous, 2, 613955
<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>IMPDH1</i>	87,90%	80,20%	100%	100%	Leber congenital amaurosis 11, 613837 Retinitis pigmentosa 10, 180105
<i>IMPG1</i>	99,70%	98,50%	100%	100%	Macular dystrophy, vitelliform, 4, 616151
<i>IMPG2</i>	99,80%	98,40%	100%	100%	Macular dystrophy, vitelliform, 5, 616152 Retinitis pigmentosa 56, 613581
<i>INF2</i>	86,70%	83,80%	100%	100%	Glomerulosclerosis, focal segmental, 5, 613237 Charcot-Marie-Tooth disease, dominant intermediate E, 614455
<i>ING1</i>	100%	99,90%	100%	100%	Squamous cell carcinoma, head and neck, somatic, 275355
<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>INS</i>	99,90%	97,90%	100%	100%	Maturity-onset diabetes of the young, type 10, 613370 Hyperproinsulinemia, 616214 Diabetes mellitus, insulin-dependent, 2, 125852 Diabetes mellitus, permanent neonatal, 606176
<i>INSL3</i>	80,60%	78,30%	80,70%	80,70%	Cryptorchidism, 219050
<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>MRAS</i>	100%	99,60%	100%	100%	Noonan syndrome 11, 618499
<i>MR E11</i>	98,90%	93,30%	100%	100%	Ataxia-telangiectasia-like disorder 1, 604391
<i>MRM2</i>	100%	99,50%	99,00%	99,00%	?Mitochondrial DNA depletion syndrome 17, 618567
<i>MRPL3</i>	93,20%	87,20%	100%	100%	Combined oxidative phosphorylation deficiency 9, 614582
<i>MRPL44</i>	99,90%	98,70%	100%	100%	?Combined oxidative phosphorylation deficiency 16, 615395
<i>MRPS14</i>	100%	100%	100%	100%	?Combined oxidative phosphorylation deficiency 38, 618378

<i>MRPS16</i>	100%	99,60%	100%	100%	Combined oxidative phosphorylation deficiency 2, 610498
<i>MRPS2</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>IQCE</i>	99,90%	98,80%	100%	100%	?Polydactyly, postaxial, type A7, 617642
<i>IQSEC2</i>	96,80%	88,60%	99,40%	98,40%	Mental retardation, X-linked 1/78, 309530
<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>IRF1</i>	100%	100%	100%	100%	Gastric cancer, somatic, 613659 Nonsmall cell lung cancer, somatic, 211980 Myelogenous leukemia, acute, 0 Myelodysplastic syndrome, preleukemic, 0
<i>IRF2BP2</i>	93,90%	77,70%	100%	99,90%	?Immunodeficiency, common variable, 14, 617765
<i>IRF2BPL</i>	99,50%	95,00%	99,90%	99,20%	Neurodevelopmental disorder with regression, abnormal movements, loss of speech, and seizures, 618088
<i>IRF6</i>	99,60%	95,90%	100%	100%	Popliteal pterygium syndrome 1, 119500 van der Woude syndrome, 119300
<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>IRS4</i>	100%	100%	100%	100%	Hypothyroidism, congenital, nongoitrous, 9, 301035
<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>ITM2B</i>	100%	99,80%	100%	100%	Dementia, familial British, 176500 ?Retinal dystrophy with inner retinal dysfunction and ganglion cell abnormalities, 616079 Dementia, familial Danish, 117300
<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>ITPR2</i>	99,90%	99,30%	100%	100%	?Anhidrosis, isolated, with normal sweat glands, 106190
<i>IVD</i>	100%	100%	100%	100%	Isovaleric acidemia, 243500
<i>IYD</i>	99,50%	95,70%	100%	100%	Thyroid dyshormonogenesis 4, 274800
<i>JAG1</i>	97,70%	96,80%	100%	100%	Alagille syndrome 1, 118450 Tetralogy of Fallot, 187500 ?Deafness, congenital heart defects, and posterior embryotoxon, 617992
<i>JAGN1</i>	100%	100%	100%	100%	Neutropenia, severe congenital, 6, autosomal recessive, 616022
<i>JAK2</i>	98,10%	95,80%	100%	100%	Myelofibrosis, somatic, 254450 Thrombocythemia 3, 614521 Polycythemia vera, somatic, 263300

					Leukemia, acute myeloid, somatic, 601626 Erythrocytosis, somatic, 133100
JAK3	99,90%	98,70%	100%	100%	SCID, autosomal recessive, T-negative/B-positive type, 600802
JAM3	100%	99,90%	100%	100%	Hemorrhagic destruction of the brain, subependymal calcification, and cataracts, 613730
JPH1	100%	99,90%	100%	100%	?Charcot-Marie-Tooth disease, axonal, autosomal dominant, type 2K, 607831
JPH2	95,50%	80,30%	100%	100%	Cardiomyopathy, hypertrophic, 17, 613873
JPH3	100%	99,80%	100%	100%	Huntington disease-like 2, 606438
JUP	100%	99,50%	100%	100%	Arrhythmogenic right ventricular dysplasia 12, 611528 Naxos disease, 601214
KANK1	100%	100%	100%	100%	Cerebral palsy, spastic quadriplegic, 2, 612900
KANK2	100%	100%	100%	100%	Nephrotic syndrome, type 16, 617783 Palmoplantar keratoderma and woolly hair, 616099
KANSL1	99,90%	99,20%	100%	100%	Koolen-De Vries syndrome, 610443
KARS	100%	99,90%	100%	100%	Deafness, autosomal recessive 89, 613916 ?Charcot-Marie-Tooth disease, recessive intermediate, B, 613641
KAT6A	100%	99,80%	100%	100%	Arboleda-Tham syndrome, 616268
KAT6B	99,90%	99,00%	100%	100%	SBBYSS syndrome, 603736 Genitopatellar syndrome, 606170
KATNB1	100%	99,90%	100%	100%	Lissencephaly 6, with microcephaly, 616212
KBTBD13	99,80%	95,80%	100%	100%	Nemaline myopathy 6, autosomal dominant, 609273
KCNA1	100%	99,90%	100%	100%	Episodic ataxia/myokymia syndrome, 160120
KCNA2	100%	99,60%	100%	100%	Epileptic encephalopathy, early infantile, 32, 616366
KCNA4	100%	100%	100%	100%	Microcephaly, cataracts, impaired intellectual development, and dystonia with abnormal striatum, 618284
KCNA5	100%	98,50%	100%	100%	Atrial fibrillation, familial, 7, 612240
KCNB1	100%	99,60%	100%	100%	Epileptic encephalopathy, early infantile, 26, 616056
KCNC1	100%	100%	100%	100%	Epilepsy, progressive myoclonic 7, 616187
KCNC3	81,10%	69,40%	94,70%	89,00%	Spinocerebellar ataxia 13, 605259
KCND3	100%	99,40%	100%	100%	Brugada syndrome 9, 616399 Spinocerebellar ataxia 19, 607346
KCNE1	100%	100%	100%	100%	Long QT syndrome 5, 613695 Jervell and Lange-Nielsen syndrome 2, 612347
KCNE2	100%	97,20%	100%	100%	Atrial fibrillation, familial, 4, 611493 Long QT syndrome 6, 613693
KCNE3	100%	100%	100%	100%	?Brugada syndrome 6, 613119
KCNH1	98,70%	98,70%	98,70%	98,70%	Temple-Baraitser syndrome, 611816 Zimmermann-Laband syndrome 1, 135500

<i>KCNH2</i>	95,80%	91,90%	100%	100%	Long QT syndrome 2, 613688 Short QT syndrome 1, 609620
<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>KCNJ2</i>	100%	100%	100%	100%	Short QT syndrome 3, 609622 Atrial fibrillation, familial, 9, 613980 Andersen syndrome, 170390
<i>KCNJ5</i>	100%	100%	100%	100%	Long QT syndrome 13, 613485 Hyperaldosteronism, familial, type III, 613677
<i>KCNJ6</i>	100%	100%	100%	100%	Keppen-Lubinsky syndrome, 614098
<i>KCNK3</i>	97,50%	95,00%	100%	100%	Pulmonary hypertension, primary, 4, 615344
<i>KCNK4</i>	99,10%	97,40%	100%	100%	Facial dysmorphism, hypertrichosis, epilepsy, intellectual/developmental delay, and gingival overgrowth syndrome, 618381
<i>KCNK9</i>	100%	100%	100%	100%	Birk-Barel mental retardation dysmorphism syndrome, 612292
<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>KCNN3</i>	100%	99,70%	100%	100%	Zimmermann-Laband syndrome 3, 618658
<i>KCNN4</i>	100%	99,40%	100%	100%	Dehydrated hereditary stomatocytosis 2, 616689
<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>KCNQ1OT1</i>	NC	NC	NC	NC	Beckwith-Wiedemann syndrome, 130650
<i>KCNQ2</i>	91,30%	89,80%	100%	100%	Epileptic encephalopathy, early infantile, 7, 613720 Seizures, benign neonatal, 1, 121200 Myokymia, 121200
<i>KCNQ3</i>	100%	99,40%	99,80%	99,10%	Seizures, benign neonatal, 2, 121201
<i>KCNQ4</i>	97,00%	95,70%	96,40%	93,90%	Deafness, autosomal dominant 2A, 600101
<i>KCNQ5</i>	97,80%	95,50%	100%	100%	Mental retardation, autosomal dominant 46, 617601

<i>KCNT1</i>	96,00%	95,20%	98,60%	97,30%	Epilepsy, nocturnal frontal lobe, 5, 615005 Epileptic encephalopathy, early infantile, 14, 614959
<i>KCNT2</i>	99,40%	97,10%	100%	100%	?Epileptic encephalopathy, early infantile, 57, 617771
<i>KCNV2</i>	100%	99,90%	100%	100%	Retinal cone dystrophy 3B, 610356
<i>KCTD1</i>	100%	99,70%	100%	100%	Scalp-ear-nipple syndrome, 181270
<i>KCTD17</i>	100%	99,00%	100%	100%	Dystonia 26, myoclonic, 616398
<i>KCTD7</i>	95,00%	95,00%	100%	100%	Epilepsy, progressive myoclonic 3, with or without intracellular inclusions, 611726
<i>KDF1</i>	100%	99,80%	100%	100%	?Ectodermal dysplasia 12, hypohidrotic/hair/tooth/nail type, 617337
<i>KDM1A</i>	98,20%	95,20%	100%	100%	Cleft palate, psychomotor retardation, and distinctive facial features, 616728
<i>KDM5B</i>	99,50%	97,90%	97,70%	97,70%	Mental retardation, autosomal recessive 65, 618109
<i>KDM5C</i>	99,80%	97,90%	100%	100%	Mental retardation, X-linked, syndromic, Claes-Jensen type, 300534
<i>KDM6A</i>	96,10%	88,70%	100%	99,90%	Kabuki syndrome 2, 300867
<i>KDM6B</i>	98,80%	97,90%	100%	100%	Neurodevelopmental disorder with coarse facies and mild distal skeletal abnormalities, 618505
<i>KDR</i>	100%	99,80%	100%	100%	Hemangioma, capillary infantile, somatic, 602089
<i>KDSR</i>	100%	99,50%	100%	100%	Erythrokeratoderma variabilis et progressiva 4, 617526
<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>KIAA0825</i>	99,40%	97,70%	100%	100%	Polydactyly, postaxial, type A10, 618498
<i>KIAA1109</i>	99,80%	99,20%	100%	100%	Alkuraya-Kucinskas syndrome, 617822
<i>KIAA1161</i>	100%	100%	100%	100%	Basal ganglia calcification, idiopathic, 7, autosomal recessive, 618317
<i>KIAA1549</i>	97,90%	96,40%	98,80%	98,00%	Retinitis pigmentosa 86, 618613
<i>KIDINS220</i>	100%	100%	100%	100%	Spastic paraplegia, intellectual disability, nystagmus, and obesity, 617296
<i>KIF11</i>	97,60%	94,80%	100%	100%	Microcephaly with or without chorioretinopathy, lymphedema, or mental retardation, 152950
<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>KIF1B</i>	100%	99,60%	100%	100%	Pheochromocytoma, 171300 ?Charcot-Marie-Tooth disease, type 2A1, 118210
<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>KIF21A</i>	99,90%	99,30%	100%	100%	Fibrosis of extraocular muscles, congenital, 1, 135700 Fibrosis of extraocular muscles, congenital, 3B, 135700
<i>KIF22</i>	100%	100%	100%	100%	Spondyloepimetaphyseal dysplasia with joint laxity, type 2, 603546
<i>KIF2A</i>	99,60%	95,60%	100%	100%	Cortical dysplasia, complex, with other brain malformations 3, 615411
<i>KIF4A</i>	99,40%	95,70%	100%	100%	?Mental retardation, X-linked 100, 300923
<i>KIF5A</i>	100%	99,90%	100%	100%	Myoclonus, intractable, neonatal, 617235 Spastic paraplegia 10, autosomal dominant, 604187
<i>KIF5C</i>	99,90%	98,80%	99,80%	99,80%	Cortical dysplasia, complex, with other brain malformations 2, 615282
<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>KISS1</i>	100%	98,30%	100%	100%	?Hypogonadotropic hypogonadism 13 with or without anosmia, 614842
<i>KISS1R</i>	100%	99,50%	100%	100%	Hypogonadotropic hypogonadism 8 with or without anosmia, 614837 ?Precocious puberty, central, 1, 176400
<i>KIT</i>	100%	99,60%	100%	100%	Gastrointestinal stromal tumor, familial, 606764 Mastocytosis, cutaneous, 154800 Germ cell tumors, somatic, 273300 Leukemia, acute myeloid, somatic, 601626 Mastocytosis, systemic, somatic, 154800 Piebaldism, 172800
<i>KITLG</i>	100%	98,50%	100%	100%	Hyperpigmentation with or without hypopigmentation, 145250 Deafness, autosomal dominant 69, unilateral or asymmetric, 616697
<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 paraplegia, optic atrophy, and neuropathy, 609541
<i>KLF1</i>	100%	97,80%	100%	100%	Blood group--Lutheran inhibitor, 111150 Dyserythropoietic anemia, congenital, type IV, 613673
<i>KLF11</i>	100%	99,40%	100%	100%	Maturity-onset diabetes of the young, type VII, 610508
<i>KLF6</i>	100%	100%	100%	100%	Gastric cancer, somatic, 613659 Prostate cancer, somatic, 176807
<i>KLHL10</i>	100%	100%	100%	100%	Spermatogenic failure 11, 615081
<i>KLHL15</i>	100%	99,70%	100%	100%	Mental retardation, X-linked 103, 300982
<i>KLHL24</i>	100%	100%	100%	100%	Epidermolysis bullosa simplex, generalized, with scarring and hair loss, 617294
<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>KLLN</i>	100%	100%	100%	100%	Cowden syndrome 4, 615107
<i>KMT2A</i>	100%	99,90%	99,90%	99,40%	Wiedemann-Steiner syndrome, 605130
<i>KMT2B</i>	95,80%	94,00%	98,70%	97,90%	Dystonia 28, childhood-onset, 617284
<i>KMT2C</i>	92,20%	91,00%	100%	100%	Kleefstra syndrome 2, 617768
<i>KMT2D</i>	100%	99,40%	100%	100%	Kabuki syndrome 1, 147920
<i>KMT2E</i>	99,80%	98,50%	100%	100%	O'Donnell-Luria-Rodan syndrome, 618512
<i>KMT5B</i>	99,90%	99,10%	100%	100%	Mental retardation, autosomal dominant 51, 617788
<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>KRAS</i>	99,50%	96,90%	100%	100%	Oculoectodermal syndrome, somatic, 600268 Leukemia, acute myeloid, somatic, 601626 Breast cancer, somatic, 114480 RAS-associated autoimmune leukoproliferative disorder, 614470 Cardiofaciocutaneous syndrome 2, 615278 Arteriovenous malformation of the brain, somatic, 108010 Bladder cancer, somatic, 109800 Pancreatic carcinoma, somatic, 260350 Lung cancer, somatic, 211980 Gastric cancer, somatic, 137215 Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaic, 163200 Noonan syndrome 3, 609942
<i>KREMEN1</i>	97,70%	94,40%	99,50%	97,90%	Ectodermal dysplasia 13, hair/tooth type, 617392
<i>KRIT1</i>	100%	99,30%	100%	100%	Cavernous malformations of CNS and retina, 116860 Cerebral cavernous malformations-1, 116860 Hyperkeratotic cutaneous capillary-venous malformations associated with cerebral capillary malformations, 116860
<i>KRT1</i>	98,70%	95,60%	100%	100%	Ichthyosis, cyclic, with epidermolytic hyperkeratosis, 607602 Keratosis palmoplantaris striata III, 607654 Palmoplantar keratoderma, epidermolytic, 144200 Palmoplantar keratoderma, nonepidermolytic, 600962 Ichthyosis histrix, Curth-Macklin type, 146590 Epidermolytic hyperkeratosis, 113800

KRT10	100%	99,30%	100%	100%	Epidermolytic hyperkeratosis, 113800 Ichthyosis with confetti, 609165 Ichthyosis, cyclic, with epidermolytic hyperkeratosis, 607602
KRT12	99,70%	97,80%	100%	100%	Meesmann corneal dystrophy 1, 122100
KRT13	100%	100%	100%	100%	White sponge nevus 2, 615785
KRT14	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
KRT16	74,20%	56,50%	100%	100%	Palmoplantar keratoderma, nonepidermolytic, focal, 613000 Pachyonychia congenita 1, 167200
KRT17	39,80%	22,80%	100%	100%	Pachyonychia congenita 2, 167210 Steatocystoma multiplex, 184500
KRT18	86,70%	70,90%	100%	100%	Cirrhosis, cryptogenic, 215600
KRT2	100%	99,80%	100%	100%	Ichthyosis bullosa of Siemens, 146800
KRT25	100%	100%	100%	100%	Woolly hair, autosomal recessive 3, 616760
KRT3	100%	100%	100%	100%	Meesmann corneal dystrophy 2, 618767
KRT4	100%	99,70%	100%	100%	White sponge nevus 1, 193900
KRT5	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
KRT6A	92,30%	87,70%	100%	100%	Pachyonychia congenita 3, 615726
KRT6B	93,60%	88,60%	100%	100%	Pachyonychia congenita 4, 615728
KRT6C	88,30%	81,30%	99,90%	99,80%	Palmoplantar keratoderma, nonepidermolytic, focal or diffuse, 615735
KRT71	100%	100%	100%	100%	?Hypotrichosis 13, 615896
KRT74	100%	100%	100%	100%	?Ectodermal dysplasia 7, hair/nail type, 614929 Woolly hair, autosomal dominant, 194300 ?Hypotrichosis 3, 613981
KRT8	90,60%	69,60%	100%	100%	Cirrhosis, cryptogenic, 215600
KRT81	99,20%	94,20%	100%	100%	Monilethrix, 158000
KRT83	96,60%	84,40%	100%	100%	Erythrokeratoderma variabilis et progressiva 5, 617756 Monilethrix, 158000

<i>KRT85</i>	99,00%	93,60%	100%	100%	Ectodermal dysplasia 4, hair/nail type, 602032
<i>KRT86</i>	99,70%	96,30%	100%	100%	Monilethrix, 158000
<i>KRT9</i>	99,20%	95,00%	100%	100%	Palmoplantar keratoderma, epidermolytic, 144200
<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>L1CAM</i>	99,90%	99,10%	100%	100%	MASA syndrome, 303350 Hydrocephalus with Hirschsprung disease, 307000 Hydrocephalus with congenital idiopathic intestinal pseudoobstruction, 307000 Corpus callosum, partial agenesis of, 304100 CRASH syndrome, 303350 Hydrocephalus due to aqueductal stenosis, 307000
<i>L2HGDH</i>	99,00%	97,20%	100%	100%	L-2-hydroxyglutaric aciduria, 236792
<i>LAGE3</i>	95,90%	85,10%	100%	100%	Galloway-Mowat syndrome 2, X-linked, 301006
<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>LAMA4</i>	100%	99,90%	100%	100%	Cardiomyopathy, dilated, 1JJ, 615235
<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>LAMP2</i>	99,20%	95,60%	100%	100%	Danon disease, 300257
<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>LAS1L</i>	99,70%	97,30%	100%	100%	Wilson-Turner syndrome, 309585
<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>LDB3</i>	95,40%	94,70%	100%	100%	Cardiomyopathy, hypertrophic, 24, 601493 Cardiomyopathy, dilated, 1C, with or without LVNC, 601493 Myopathy, myofibrillar, 4, 609452 Left ventricular noncompaction 3, 601493
<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>LDLR</i>	100%	99,30%	100%	100%	Hypercholesterolemia, familial, 1, 143890 LDL cholesterol level QTL2, 143890
<i>LDLRAP1</i>	98,80%	94,20%	100%	100%	Hypercholesterolemia, familial, 4, 603813
<i>LEF1</i>	100%	100%	100%	100%	Sebaceous tumors, somatic, 0
<i>LEMD2</i>	98,70%	92,00%	100%	100%	Cataract 46, juvenile-onset, 212500
<i>LEMD3</i>	99,90%	98,70%	100%	100%	Osteopoikilosis with or without melorheostosis, 166700 Buschke-Ollendorff syndrome, 166700
<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>LGI1</i>	98,50%	97,50%	100%	100%	Epilepsy, familial temporal lobe, 1, 600512
<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>LHX4</i>	100%	100%	100%	100%	Pituitary hormone deficiency, combined, 4, 262700

<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>LITAF</i>	98,20%	92,70%	100%	100%	Charcot-Marie-Tooth disease, type 1C, 601098
<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>LMNB1</i>	99,90%	98,90%	100%	100%	Leukodystrophy, adult-onset, autosomal dominant, 169500
<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>LMX1B</i>	99,60%	96,30%	100%	100%	Nail-patella syndrome, 161200
<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>LOR</i>	99,00%	80,80%	100%	100%	Vohwinkel syndrome with ichthyosis, 604117
<i>LOX</i>	100%	99,60%	100%	100%	Aortic aneurysm, familial thoracic 10, 617168
<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>LPP</i>	100%	100%	100%	100%	Leukemia, acute myeloid, 601626 Lipoma, 0
<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>LRP12</i>	100%	99,80%	100%	100%	Oculopharyngodistal myopathy 1, 164310
<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>LRP6</i>	100%	99,90%	100%	100%	Tooth agenesis, selective, 7, 616724
<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>LRRC8A</i>	100%	99,80%	100%	100%	?Agammaglobulinemia 5, 613506
<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>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>LYZ</i>	100%	100%	100%	100%	Amyloidosis, renal, 105200
<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>LZTS1</i>	100%	99,80%	100%	100%	Esophageal squamous cell carcinoma, somatic, 133239
<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>MACF1</i>	100%	99,60%	100%	100%	Lissencephaly 9 with complex brainstem malformation, 618325
<i>MAD1L1</i>	100%	97,60%	100%	100%	Prostate cancer, somatic, 176807 Lymphoma, somatic, 0
<i>MAD2L2</i>	100%	99,90%	100%	100%	?Fanconi anemia, complementation group V, 617243
<i>MAF</i>	83,50%	78,00%	88,60%	82,20%	Ayme-Gripp syndrome, 601088 Cataract 21, multiple types, 610202
<i>MAFA</i>	93,60%	71,50%	99,40%	95,80%	Insulinomatosis and diabetes mellitus, 147630

<i>MAFB</i>	100%	99,40%	100%	100%	Duane retraction syndrome 3, 617041 Multicentric carpotarsal osteolysis syndrome, 166300
<i>MAG</i>	100%	100%	100%	100%	Spastic paraplegia 75, autosomal recessive, 616680
<i>MAGED2</i>	99,80%	97,70%	100%	99,90%	Bartter syndrome, type 5, antenatal, transient, 300971
<i>MAGEL2</i>	93,00%	87,20%	100%	100%	Schaaf-Yang syndrome, 615547
<i>MAGI2</i>	94,50%	92,40%	94,70%	93,30%	Nephrotic syndrome, type 15, 617609
<i>MAGT1</i>	98,50%	96,50%	98,70%	98,70%	Congenital disorder of glycosylation, type Icc, 301031 Immunodeficiency, X-linked, with magnesium defect, Epstein-Barr virus infection and neoplasia, 300853
<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>MAML2</i>	100%	99,60%	100%	100%	Mucoepidermoid salivary gland carcinoma, 0
<i>MAMLD1</i>	99,80%	98,20%	100%	100%	Hypospadias 2, X-linked, 300758
<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>MAOA</i>	100%	99,70%	99,80%	98,50%	Brunner syndrome, 300615
<i>MAP2K1</i>	99,80%	97,10%	100%	100%	Cardiofaciocutaneous syndrome 3, 615279
<i>MAP2K2</i>	98,50%	95,10%	100%	100%	Cardiofaciocutaneous syndrome 4, 615280
<i>MAP3K1</i>	96,10%	91,60%	99,70%	98,30%	46XY sex reversal 6, 613762
<i>MAP3K20</i>	100%	99,50%	100%	100%	Split-foot malformation with mesoaxial polydactyly, 616890 Centronuclear myopathy 6 with fiber-type disproportion, 617760
<i>MAP3K7</i>	100%	99,60%	100%	100%	Cardiospondylocarpofacial syndrome, 157800 Frontometaphyseal dysplasia 2, 617137
<i>MAP3K8</i>	100%	99,90%	100%	100%	Lung cancer, somatic, 211980
<i>MAPK8IP3</i>	100%	99,60%	100%	100%	Neurodevelopmental disorder with or without variable brain abnormalities, 618443
<i>MAPKAPK3</i>	100%	99,60%	100%	100%	?Macular dystrophy, patterned, 3, 617111
<i>MAPKBP1</i>	100%	100%	100%	100%	Nephronophthisis 20, 617271
<i>MAPRE2</i>	100%	99,30%	100%	100%	Symmetric circumferential skin creases, congenital, 2, 616734
<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>MARCH6</i>	99,90%	98,40%	100%	100%	Epilepsy, familial adult myoclonic, 3, 613608
<i>MARK3</i>	99,90%	98,80%	100%	100%	?Visual impairment and progressive phthisis bulbi, 618283
<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>MASP2</i>	100%	99,60%	100%	100%	MASP2 deficiency, 613791
<i>MAST1</i>	100%	99,50%	100%	100%	Mega-corpus-callosum syndrome with cerebellar hypoplasia and cortical malformations, 618273
<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%	?Spondyloepimetaphyseal dysplasia, 608728 Epiphyseal dysplasia, multiple, 5, 607078
<i>MATR3</i>	97,00%	93,40%	100%	100%	Amyotrophic lateral sclerosis 21, 606070
<i>MBD5</i>	99,90%	99,90%	100%	100%	Mental retardation, autosomal dominant 1, 156200
<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>MBTPS2</i>	100%	99,00%	100%	100%	Osteogenesis imperfecta, type XIX, 301014 ?Olmsted syndrome, X-linked, 300918 IFAP syndrome with or without BRESHECK syndrome, 308205 Keratosis follicularis spinulosa decalvans, X-linked, 308800
<i>MC2R</i>	99,90%	98,30%	100%	100%	Glucocorticoid deficiency, due to ACTH unresponsiveness, 202200
<i>MC4R</i>	100%	100%	100%	100%	Obesity (BMIQ20), 618406
<i>MCC</i>	100%	99,70%	100%	100%	Colorectal cancer, somatic, 114500
<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>MCM2</i>	100%	100%	100%	100%	?Deafness, autosomal dominant 70, 616968
<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>MCM6</i>	100%	100%	100%	100%	Lactase persistence/nonpersistence, 223100
<i>MCM8</i>	100%	99,60%	94,40%	94,40%	?Premature ovarian failure 10, 612885
<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>MECOM</i>	100%	99,90%	100%	100%	Radioulnar synostosis with amegakaryocytic thrombocytopenia 2, 616738

<i>MECP2</i>	100%	98,70%	100%	99,90%	Mental retardation, X-linked syndromic, Lubs type, 300260 Encephalopathy, neonatal severe, 300673 Mental retardation, X-linked, syndromic 13, 300055 Rett syndrome, atypical, 312750 Rett syndrome, 312750 Rett syndrome, preserved speech variant, 312750
<i>MECR</i>	100%	98,90%	100%	100%	Dystonia, childhood-onset, with optic atrophy and basal ganglia abnormalities, 617282
<i>MED12</i>	99,80%	96,70%	100%	100%	Ohdo syndrome, X-linked, 300895 Lujan-Fryns syndrome, 309520 Opitz-Kaveggia syndrome, 305450
<i>MED13L</i>	100%	99,80%	100%	100%	Transposition of the great arteries, dextro-looped 1, 608808 Mental retardation and distinctive facial features with or without cardiac defects, 616789
<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>MEF2C</i>	99,90%	96,00%	100%	100%	Mental retardation, stereotypic movements, epilepsy, and/or cerebral malformations, 613443
<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>MEI1</i>	100%	99,30%	100%	100%	Hydatidiform mole, recurrent, 3, 618431
<i>MEIOB</i>	100%	98,60%	100%	100%	?Spermatogenic failure 22, 617706
<i>MEIS2</i>	100%	100%	100%	100%	Cleft palate, cardiac defects, and mental retardation, 600987
<i>MEN1</i>	99,90%	99,10%	100%	100%	Multiple endocrine neoplasia 1, 131100 Angiofibroma, somatic, 0 Adrenal adenoma, somatic, 0 Parathyroid adenoma, somatic, 0 Lipoma, somatic, 0 Carcinoid tumor of lung, 0
<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>MESD</i>	100%	99,90%	100%	100%	Osteogenesis imperfecta, type XX, 618644
<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>METTL13</i>	99,90%	99,30%	100%	100%	No OMIM disease ID
<i>METTL23</i>	100%	100%	100%	100%	Mental retardation, autosomal recessive 44, 615942
<i>MFAP5</i>	99,90%	97,60%	100%	100%	Aortic aneurysm, familial thoracic 9, 616166
<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 lipofuscinosi, 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>MIB1</i>	100%	99,90%	100%	100%	Left ventricular noncompaction 7, 615092
<i>MICU1</i>	98,90%	95,20%	100%	100%	Myopathy with extrapyramidal signs, 615673
<i>MID1</i>	99,80%	98,70%	100%	100%	Opitz GBBB syndrome, type I, 300000
<i>MID2</i>	99,80%	98,70%	100%	100%	?Mental retardation, X-linked 101, 300928
<i>MIP</i>	100%	98,90%	100%	100%	Cataract 15, multiple types, 615274
<i>MIPEP</i>	99,20%	96,50%	100%	100%	Combined oxidative phosphorylation deficiency 31, 617228
<i>MIR140</i>	NC	NC	NC	NC	Spondyloepiphyseal dysplasia, Nishimura type, 618618
<i>MIR17HG</i>	NC	NC	NC	NC	Feingold syndrome 2, 614326
<i>MIR184</i>	NC	NC	NC	NC	EDICT syndrome, 614303
<i>MIR204</i>	NC	NC	NC	NC	?Retinal dystrophy and iris coloboma with or without cataract, 616722
<i>MIR96</i>	NC	NC	NC	NC	Deafness, autosomal dominant 50, 613074
<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>MKL1</i>	98,50%	97,20%	100%	100%	?Immunodeficiency 66, 618847
<i>MKRN3</i>	100%	100%	100%	100%	Precocious puberty, central, 2, 615346
<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>MLH3</i>	100%	100%	100%	100%	Colorectal cancer, somatic, 114500 Colorectal cancer, hereditary nonpolyposis, type 7, 614385
<i>MLLT10</i>	96,80%	95,50%	97,10%	97,10%	Leukemia, acute myeloid, 601626
<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>MMP1</i>	100%	98,90%	100%	100%	COPD, rate of decline of lung function in, 606963
<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>MMP19</i>	100%	99,50%	100%	100%	Cavitory optic disc anomalies, 611543
<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>MN1</i>	100%	99,30%	100%	100%	Meningioma, 607174 CEBALID syndrome, 618774
<i>MNX1</i>	68,20%	58,30%	87,40%	79,20%	Currarino syndrome, 176450
<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>MOG</i>	100%	99,50%	100%	100%	?Narcolepsy 7, 614250
<i>MOGS</i>	100%	99,90%	100%	100%	Congenital disorder of glycosylation, type IIb, 606056
<i>MORC2</i>	100%	99,80%	100%	100%	Charcot-Marie-Tooth disease, axonal, type 2Z, 616688

<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>MPIG6B</i>	100%	100%	100%	100%	?Thrombocytopenia, anemia, and myelofibrosis, 617441
<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>MSH5</i>	100%	100%	100%	100%	?Premature ovarian failure 13, 617442
<i>MSH6</i>	100%	99,80%	100%	100%	Mismatch repair cancer syndrome, 276300 Colorectal cancer, hereditary nonpolyposis, type 5, 614350
<i>MSL3</i>	97,00%	88,30%	100%	100%	Basilicata-Akhtar syndrome, 301032
<i>MSMO1</i>	96,30%	88,90%	100%	100%	Microcephaly, congenital cataract, and psoriasiform dermatitis, 616834
<i>MSN</i>	99,00%	95,70%	100%	100%	Immunodeficiency 50, 300988
<i>MSR1</i>	99,90%	99,50%	100%	100%	Barrett esophagus/esophageal adenocarcinoma, 614266
<i>MSRB3</i>	100%	99,40%	100%	100%	Deafness, autosomal recessive 74, 613718
<i>MSTN</i>	100%	100%	100%	100%	Muscle hypertrophy, 614160
<i>MSTO1</i>	99,60%	96,70%	100%	100%	Myopathy, mitochondrial, and ataxia, 617675

<i>MSX1</i>	96,90%	89,30%	100%	100%	Orofacial cleft 5, 608874 Ectodermal dysplasia 3, Witkop type, 189500 Tooth agenesis, selective, 1, with or without orofacial cleft, 106600
<i>MSX2</i>	100%	99,40%	100%	100%	Parietal foramina 1, 168500 Craniosynostosis 2, 604757 Parietal foramina with cleidocranial dysplasia, 168550
<i>MTAP</i>	99,10%	93,50%	100%	100%	Diaphyseal medullary stenosis with malignant fibrous histiocytoma, 112250
<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>MTM1</i>	99,00%	93,30%	100%	100%	Myotubular myopathy, X-linked, 310400
<i>MTO1</i>	91,30%	90,40%	91,60%	91,40%	Combined oxidative phosphorylation deficiency 10, 614702
<i>MTOR</i>	100%	99,50%	100%	100%	Smith-Kingsmore syndrome, 616638 Focal cortical dysplasia, type II, somatic, 607341
<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>MUC1</i>	92,40%	83,60%	100%	99,90%	Medullary cystic kidney disease 1, 174000
<i>MUSK</i>	100%	99,90%	100%	100%	Fetal akinesia 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>MVD</i>	99,90%	98,30%	100%	100%	Porokeratosis 7, multiple types, 614714
<i>MVK</i>	90,90%	90,50%	90,50%	90,50%	Hyper-IgD syndrome, 260920 Porokeratosis 3, multiple types, 175900 Mevalonic aciduria, 610377
<i>MXI1</i>	98,60%	95,30%	97,70%	94,10%	Prostate cancer, somatic, 176807 Neurofibrosarcoma, somatic, 0
<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>MYBPC3</i>	99,90%	97,60%	100%	100%	Cardiomyopathy, hypertrophic, 4, 115197 Cardiomyopathy, dilated, 1MM, 615396 Left ventricular noncompaction 10, 615396
<i>MYC</i>	65,90%	64,40%	100%	100%	Burkitt lymphoma, somatic, 113970
<i>MYCN</i>	100%	99,90%	99,30%	96,70%	Feingold syndrome 1, 164280
<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>MYH11</i>	100%	100%	100%	100%	Aortic aneurysm, familial thoracic 4, 132900
<i>MYH14</i>	98,40%	94,00%	100%	100%	?Peripheral neuropathy, myopathy, hoarseness, and hearing loss, 614369 Deafness, autosomal dominant 4A, 600652
<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>MYH6</i>	99,40%	97,10%	100%	100%	Atrial septal defect 3, 614089 Cardiomyopathy, hypertrophic, 14, 613251 Cardiomyopathy, dilated, 1EE, 613252
<i>MYH7</i>	99,60%	97,30%	100%	100%	Myopathy, myosin storage, autosomal recessive, 255160 Left ventricular noncompaction 5, 613426 Laing distal myopathy, 160500 Myopathy, myosin storage, autosomal dominant, 608358 Cardiomyopathy, dilated, 1S, 613426 Scapuloperoneal syndrome, myopathic type, 181430 Cardiomyopathy, hypertrophic, 1, 192600
<i>MYH8</i>	100%	99,60%	100%	100%	Carney complex variant, 608837 Trismus-pseudocampodontaly syndrome, 158300
<i>MYH9</i>	100%	99,30%	100%	100%	Deafness, autosomal dominant 17, 603622 Macrothrombocytopenia and granulocyte inclusions with or without nephritis or sensorineural hearing loss, 155100
<i>MYL1</i>	100%	99,70%	100%	100%	Myopathy, congenital, with fast-twitch (type II) fiber atrophy, 618414
<i>MYL2</i>	100%	99,80%	100%	100%	Cardiomyopathy, hypertrophic, 10, 608758
<i>MYL3</i>	100%	100%	100%	100%	Cardiomyopathy, hypertrophic, 8, 608751
<i>MYL4</i>	100%	100%	100%	100%	?Atrial fibrillation, familial, 18, 617280
<i>MYLK</i>	100%	99,90%	100%	100%	Aortic aneurysm, familial thoracic 7, 613780 Megacystis-microcolon-intestinal hypoperistalsis syndrome, 249210
<i>MYLK2</i>	100%	100%	100%	100%	Cardiomyopathy, hypertrophic, 1, digenic, 192600

<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>MYOC</i>	100%	98,60%	100%	100%	Glaucoma 1A, primary open angle, 137750
<i>MYOT</i>	100%	99,60%	100%	100%	Myopathy, myofibrillar, 3, 609200 Myopathy, spheroid body, 182920
<i>MYOZ2</i>	100%	100%	100%	100%	Cardiomyopathy, hypertrophic, 16, 613838
<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>MYRF</i>	99,30%	98,50%	100%	100%	Cardiac-urogenital syndrome, 618280 Encephalitis/encephalopathy, mild, with reversible myelin vacuolization, 618113
<i>MYSM1</i>	100%	99,10%	100%	100%	Bone marrow failure syndrome 4, 618116
<i>MYT1L</i>	99,80%	99,00%	100%	100%	Mental retardation, autosomal dominant 39, 616521
<i>NAA10</i>	99,70%	98,50%	99,90%	99,90%	Ogden syndrome, 300855 ?Microphthalmia, syndromic 1, 309800
<i>NAA15</i>	95,80%	91,00%	96,80%	96,70%	Mental retardation, autosomal dominant 50, 617787
<i>NACC1</i>	100%	99,80%	100%	100%	Neurodevelopmental disorder with epilepsy, cataracts, feeding difficulties, and delayed brain myelination, 617393
<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>NANOS1</i>	99,60%	95,10%	95,20%	88,80%	Spermatogenic failure 12, 615413
<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>NCSTN</i>	100%	99,80%	100%	100%	Acne inversa, familial, 1, 142690
<i>NDE1</i>	100%	100%	100%	100%	Lissencephaly 4 (with microcephaly), 614019 ?Microhydranencephaly, 605013
<i>NDN</i>	98,70%	89,10%	100%	100%	Prader-Willi syndrome, 176270
<i>NDP</i>	100%	99,70%	100%	100%	Exudative vitreoretinopathy 2, X-linked, 305390 Norrie disease, 310600
<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>NDUFA1</i>	99,90%	99,30%	100%	100%	Mitochondrial complex I deficiency, nuclear type 12, 301020
<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>NEDD4L</i>	72,00%	71,50%	100%	100%	Periventricular nodular heterotopia 7, 617201
<i>NEFH</i>	93,40%	84,50%	100%	100%	Charcot-Marie-Tooth disease, axonal, type 2CC, 616924
<i>NEFL</i>	99,90%	98,20%	100%	100%	Charcot-Marie-Tooth disease, type 1F, 607734 Charcot-Marie-Tooth disease, dominant intermediate G, 617882 Charcot-Marie-Tooth disease, type 2E, 607684
<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>NEUROD1</i>	100%	99,10%	100%	100%	Maturity-onset diabetes of the young 6, 606394
<i>NEUROD2</i>	100%	99,90%	100%	100%	Epileptic encephalopathy, early infantile, 72, 618374
<i>NEUROG3</i>	100%	100%	100%	100%	Diarrhea 4, malabsorptive, congenital, 610370
<i>NEXMIF</i>	100%	99,50%	100%	100%	Mental retardation, X-linked 98, 300912
<i>NEXN</i>	92,00%	77,50%	100%	99,90%	Cardiomyopathy, hypertrophic, 20, 613876 Cardiomyopathy, dilated, 1CC, 613122
<i>NF1</i>	92,60%	90,20%	100%	100%	Watson syndrome, 193520 Neurofibromatosis, type 1, 162200 Neurofibromatosis-Noonan syndrome, 601321 Leukemia, juvenile myelomonocytic, 607785 Neurofibromatosis, familial spinal, 162210
<i>NF2</i>	100%	99,90%	100%	100%	Meningioma, NF2-related, somatic, 607174 Schwannomatosis, somatic, 162091 Neurofibromatosis, type 2, 101000
<i>NFASC</i>	100%	99,90%	100%	100%	Neurodevelopmental disorder with central and peripheral motor dysfunction, 618356
<i>NFE2L2</i>	100%	99,90%	100%	100%	Immunodeficiency, developmental delay, and hypohomocysteinemia, 617744
<i>NFIA</i>	100%	99,60%	100%	100%	Brain malformations with or without urinary tract defects, 613735
<i>NFIB</i>	97,40%	96,50%	100%	100%	Macrocephaly, acquired, with impaired intellectual development, 618286
<i>NFIX</i>	100%	99,50%	99,60%	98,70%	Marshall-Smith syndrome, 602535 Sotos syndrome 2, 614753
<i>NFKB1</i>	100%	99,40%	100%	100%	Immunodeficiency, common variable, 12, 616576
<i>NFKB2</i>	98,80%	95,60%	100%	100%	Immunodeficiency, common variable, 10, 615577
<i>NFKBIA</i>	95,20%	88,00%	100%	100%	Ectodermal dysplasia and immunodeficiency 2, 612132
<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>NHS</i>	95,40%	93,90%	100%	99,80%	Nance-Horan syndrome, 302350 Cataract 40, X-linked, 302200

<i>NIN</i>	100%	99,50%	100%	100%	?Seckel syndrome 7, 614851
<i>NIPA1</i>	100%	100%	99,80%	98,50%	Spastic paraplegia 6, autosomal dominant, 600363
<i>NIPAL4</i>	100%	99,10%	100%	100%	Ichthyosis, congenital, autosomal recessive 6, 612281
<i>NIPBL</i>	98,90%	97,00%	100%	100%	Cornelia de Lange syndrome 1, 122470
<i>NKX2-1</i>	98,60%	85,60%	100%	100%	Chorea, hereditary benign, 118700 Choreoathetosis, hypothyroidism, and neonatal respiratory distress, 610978
<i>NKX2-5</i>	100%	99,70%	100%	100%	Ventricular septal defect 3, 614432 Hypoplastic left heart syndrome 2, 614435 Conotruncal heart malformations, variable, 217095 Tetralogy of Fallot, 187500 Hypothyroidism, congenital nongoitrous, 5, 225250 Atrial septal defect 7, with or without AV conduction defects, 108900
<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>NLGN4X</i>	99,90%	98,90%	100%	99,90%	Mental retardation, X-linked, 300495
<i>NLRC4</i>	100%	100%	100%	100%	Autoinflammation with infantile enterocolitis, 616050 ?Familial cold autoinflammatory syndrome 4, 616115
<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>NLRP12</i>	100%	99,90%	100%	100%	Familial cold autoinflammatory syndrome 2, 611762
<i>NLRP3</i>	100%	99,90%	100%	100%	Familial cold inflammatory syndrome 1, 120100 Muckle-Wells syndrome, 191900 CINCA syndrome, 607115 Deafness, autosomal dominant 34, with or without inflammation, 617772 Keratoendothelitis fugax hereditaria, 148200
<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>NOBOX</i>	99,90%	98,40%	100%	99,80%	Premature ovarian failure 5, 611548
<i>NOD2</i>	100%	99,90%	100%	100%	Blau syndrome, 186580
<i>NODAL</i>	100%	100%	100%	100%	Heterotaxy, visceral, 5, 270100
<i>NOG</i>	100%	100%	100%	100%	Tarsal-carpal coalition syndrome, 186570 Symphalangism, proximal, 1A, 185800 Stapes ankylosis with broad thumbs and toes, 184460

					Multiple synostoses syndrome 1, 186500 Brachydactyly, type B2, 611377
<i>NOL3</i>	93,70%	84,20%	100%	100%	?Myoclonus, familial, 1, 614937
<i>NONO</i>	100%	98,40%	100%	100%	Mental retardation, X-linked, syndromic 34, 300967
<i>NOP10</i>	100%	99,80%	100%	100%	Dyskeratosis congenita, autosomal recessive 1, 224230
<i>NOP56</i>	99,80%	98,60%	100%	100%	Spinocerebellar ataxia 36, 614153
<i>NOTCH1</i>	99,20%	97,20%		100%	Aortic valve disease 1, 109730 Adams-Oliver syndrome 5, 616028
<i>NOTCH2</i>	100%	99,50%		100%	Hajdu-Cheney syndrome, 102500 Alagille syndrome 2, 610205
<i>NOTCH3</i>	94,00%	90,20%	99,90%	99,40%	?Myofibromatosis, infantile 2, 615293 Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy 1, 125310 Lateral meningocele syndrome, 130720
<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>NPM1</i>	98,20%	85,30%	100%	100%	Leukemia, acute myeloid, somatic, 601626
<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>NPRL2</i>	100%	100%	100%	100%	Epilepsy, familial focal, with variable foci 2, 617116
<i>NPRL3</i>	100%	99,60%	100%	100%	Epilepsy, familial focal, with variable foci 3, 617118
<i>NR0B1</i>	100%	99,50%	100%	100%	Adrenal hypoplasia, congenital, 300200 46XY sex reversal 2, dosage-sensitive, 300018
<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>NR2F1</i>	100%	100%	99,10%	95,10%	Bosch-Boonstra-Schaaf optic atrophy syndrome, 615722
<i>NR2F2</i>	100%	98,50%	100%	100%	Congenital heart defects, multiple types, 4, 615779
<i>NR3C1</i>	100%	99,90%	100%	100%	Glucocorticoid resistance, 615962
<i>NR3C2</i>	100%	99,70%	100%	100%	Pseudohypoaldosteronism type I, autosomal dominant, 177735 Hypertension, early-onset, autosomal dominant, with exacerbation in pregnancy, 605115
<i>NR4A3</i>	99,90%	98,00%	100%	100%	Chondrosarcoma, extraskeletal myxoid, 612237
<i>NR5A1</i>	100%	100%	100%	100%	Adrenocortical insufficiency, 612964 46, XX sex reversal 4, 617480 Premature ovarian failure 7, 612964 Spermatogenic failure 8, 613957 46XY sex reversal 3, 612965
<i>NRAS</i>	100%	100%	100%	100%	Epidermal nevus, somatic, 162900 Melanocytic nevus syndrome, congenital, somatic, 137550 Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaic, 163200 Colorectal cancer, somatic, 114500 ?RAS-associated autoimmune lymphoproliferative syndrome type IV, somatic, 614470 Thyroid carcinoma, follicular, somatic, 188470 Neurocutaneous melanosis, somatic, 249400 Noonan syndrome 6, 613224
<i>NRIP1</i>	100%	100%	100%	100%	?Congenital anomalies of kidney and urinary tract 3, 618270
<i>NRL</i>	99,50%	94,80%	100%	100%	Retinitis pigmentosa 27, 613750 Retinal degeneration, autosomal recessive, clumped pigment type, 0
<i>NRXN1</i>	97,40%	96,90%	100%	99,80%	Pitt-Hopkins-like syndrome 2, 614325
<i>NSD1</i>	100%	99,90%	100%	100%	Sotos syndrome 1, 117550
<i>NSDHL</i>	100%	98,70%	100%	100%	CHILD syndrome, 308050 CK syndrome, 300831
<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>NSMF</i>	96,10%	95,60%	100%	100%	Hypogonadotropic hypogonadism 9 with or without anosmia, 614838
<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 paraparesis 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>NTF4</i>	99,60%	93,00%	100%	100%	Glaucoma 1, open angle, 1O, 613100
<i>NTHL1</i>	100%	99,80%	100%	100%	Familial adenomatous polyposis 3, 616415
<i>NTN1</i>	100%	99,70%	100%	100%	Mirror movements 4, 618264

<i>NTRK1</i>	99,80%	98,20%	100%	100%	Insensitivity to pain, congenital, with anhidrosis, 256800
<i>NTRK2</i>	100%	99,90%	100%	100%	Obesity, hyperphagia, and developmental delay, 613886 Epileptic encephalopathy, early infantile, 58, 617830
<i>NUBPL</i>	99,70%	98,40%	100%	100%	Mitochondrial complex I deficiency, nuclear type 21, 618242
<i>NUMA1</i>	100%	99,80%	100%	100%	Leukemia, acute promyelocytic, somatic, 612376
<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>NUP155</i>	99,20%	97,40%	100%	100%	?Atrial fibrillation 15, 615770
<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>NUTM2B-AS1</i>	NC	NC	NC	NC	?Oculopharyngeal myopathy with leukoencephalopathy 1, 618637
<i>NXN</i>	100%	100%	99,90%	99,50%	Robinow syndrome, autosomal recessive 2, 618529
<i>NYX</i>	96,30%	94,10%	99,70%	98,80%	Night blindness, congenital stationary (complete), 1A, X-linked, 310500
<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>OCRL</i>	99,90%	98,60%	100%	99,90%	Lowe syndrome, 309000 Dent disease 2, 300555
<i>OFD1</i>	88,00%	73,70%	100%	99,90%	Orofaciodigital syndrome I, 311200 ?Retinitis pigmentosa 23, 300424 Joubert syndrome 10, 300804 Simpson-Golabi-Behmel syndrome, type 2, 300209
<i>OGG1</i>	100%	99,80%	100%	100%	Renal cell carcinoma, clear cell, somatic, 144700

<i>OGT</i>	99,90%	99,00%	100%	100%	Mental retardation, X-linked 106, 300997
<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>OPCML</i>	99,60%	99,60%	100%	100%	Ovarian cancer, somatic, 167000
<i>OPHN1</i>	99,50%	97,60%	99,90%	98,80%	Mental retardation, X-linked, with cerebellar hypoplasia and distinctive facial appearance, 300486
<i>OPLAH</i>	100%	99,80%	100%	100%	5-oxoprolinase deficiency, 260005
<i>OPN1LW</i>	67,20%	60,60%	98,30%	98,10%	Blue cone monochromacy, 303700 Colorblindness, protan, 303900
<i>OPN1MW</i>	66,30%	58,50%	98,90%	97,50%	Colorblindness, deutan, 303800 Blue cone monochromacy, 303700
<i>OPN1SW</i>	100%	100%	100%	100%	Colorblindness, tritan, 190900
<i>OPTN</i>	100%	99,90%	100%	100%	Glaucoma 1, open angle, E, 137760 Amyotrophic lateral sclerosis 12, 613435
<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>OSBPL2</i>	100%	100%	100%	100%	Deafness, autosomal dominant 67, 616340
<i>OSGEP</i>	100%	99,40%	100%	100%	Galloway-Mowat syndrome 3, 617729
<i>OSMR</i>	100%	99,70%	100%	100%	Amyloidosis, primary localized cutaneous, 1, 105250
<i>OSTM1</i>	98,60%	94,00%	100%	100%	Osteopetrosis, autosomal recessive 5, 259720
<i>OTC</i>	100%	100%	100%	100%	Ornithine transcarbamylase deficiency, 311250
<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>OTOGL</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>OTX2</i>	100%	99,70%	100%	100%	Microphthalmia, syndromic 5, 610125 Pituitary hormone deficiency, combined, 6, 613986 Retinal dystrophy, early-onset, with or without pituitary dysfunction, 610125

<i>OVOL2</i>	95,70%	89,50%	100%	100%	Corneal dystrophy, posterior polymorphous, 1, 122000
<i>OXCT1</i>	99,80%	98,10%	100%	100%	Succinyl CoA:3-oxoacid CoA transferase deficiency, 245050
<i>P2RX2</i>	100%	100%	100%	100%	Deafness, autosomal dominant 41, 608224
<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>P4HA2</i>	100%	99,20%	100%	100%	Myopia 25, autosomal dominant, 617238
<i>P4HB</i>	94,60%	94,00%	100%	100%	Cole-Carpenter syndrome 1, 112240
<i>P4HTM</i>	99,00%	97,40%	100%	99,40%	Hypotonia, hypoventilation, impaired intellectual development, dysautonomia, epilepsy, and eye abnormalities, 618493
<i>PABPN1</i>	66,30%	56,90%	100%	99,10%	Oculopharyngeal muscular dystrophy, 164300
<i>PACS1</i>	98,80%	96,90%	100%	100%	Schuurs-Hoeijmakers syndrome, 615009
<i>PACS2</i>	99,30%	96,20%	100%	99,80%	Epileptic encephalopathy, early infantile, 66, 618067
<i>PADI3</i>	100%	100%	100%	100%	Uncombable hair syndrome, 191480
<i>PADI6</i>	100%	99,60%	100%	100%	Preimplantation embryonic lethality 2, 617234
<i>PAFAH1B1</i>	94,10%	87,10%	100%	100%	Subcortical laminar heterotopia, 607432 Lissencephaly 1, 607432
<i>PAH</i>	100%	100%	100%	100%	Phenylketonuria, 261600
<i>PAK1</i>	100%	99,60%	100%	100%	Intellectual developmental disorder with macrocephaly, seizures, and speech delay, 618158
<i>PAK3</i>	99,30%	95,90%	100%	99,80%	Mental retardation, X-linked 30/47, 300558
<i>PALB2</i>	100%	100%	100%	100%	Fanconi anemia, complementation group N, 610832
<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>PANX1</i>	100%	100%	100%	100%	Oocyte maturation defect 7, 618550
<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>PAX2</i>	100%	99,90%	100%	100%	Glomerulosclerosis, focal segmental, 7, 616002 Papillorenal syndrome, 120330
<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
PAX4	100%	99,80%	100%	100%	Maturity-onset diabetes of the young, type IX, 612225 Diabetes mellitus, type 2, 125853
PAX6	100%	100%	100%	100%	Optic nerve hypoplasia, 165550 ?Coloboma, ocular, 120200 Foveal hypoplasia 1, 136520 Aniridia, 106210 Keratitis, 148190 ?Coloboma of optic nerve, 120430 ?Morning glory disc anomaly, 120430 Cataract with late-onset corneal dystrophy, 106210 Anterior segment dysgenesis 5, multiple subtypes, 604229
PAX7	100%	100%	100%	100%	Myopathy, congenital, progressive, with scoliosis, 618578 Rhabdomyosarcoma 2, alveolar, 268220
PAX8	100%	99,80%	100%	100%	Hypothyroidism, congenital, due to thyroid dysgenesis or hypoplasia, 218700
PAX9	99,70%	99,60%	100%	100%	Tooth agenesis, selective, 3, 604625
PBX1	100%	99,40%	100%	100%	Congenital anomalies of kidney and urinary tract syndrome with or without hearing loss, abnormal ears, or developmental delay, 617641
PC	99,80%	97,30%	100%	100%	Pyruvate carboxylase deficiency, 266150
PCBD1	100%	99,60%	100%	99,70%	Hyperphenylalaninemia, BH4-deficient, D, 264070
PCCA	99,50%	96,70%	100%	100%	Propionicacidemia, 606054
PCCB	97,90%	96,00%	98,70%	96,20%	Propionicacidemia, 606054
PCDH12	100%	100%	100%	100%	Diencephalic-mesencephalic junction dysplasia syndrome 1, 251280
PCDH15	98,60%	97,50%	100%	100%	Usher syndrome, type 1D/F digenic, 601067 Usher syndrome, type 1F, 602083 Deafness, autosomal recessive 23, 609533
PCDH19	100%	98,90%	100%	100%	Epileptic encephalopathy, early infantile, 9, 300088
PCGF2	100%	99,50%	100%	100%	Turnpenny-Fry syndrome, 618371
PCK1	100%	100%	100%	100%	?Phosphoenolpyruvate carboxykinase deficiency, cytosolic, 261680
PCLO	99,70%	98,70%	100%	100%	?Pontocerebellar hypoplasia, type 3, 608027
PCNA	100%	98,40%	100%	100%	?Ataxia-telangiectasia-like disorder 2, 615919
PCNT	99,60%	97,10%	100%	100%	Microcephalic osteodysplastic primordial dwarfism, type II, 210720
PCSK1	100%	99,50%	100%	100%	Obesity with impaired prohormone processing, 600955
PCSK9	95,00%	91,90%	100%	100%	Hypercholesterolemia, familial, 3, 603776
PCYT1A	98,90%	95,50%	100%	100%	Spondylometaphyseal dysplasia with cone-rod dystrophy, 608940
PDCD10	99,90%	98,90%	100%	100%	Cerebral cavernous malformations 3, 603285

<i>PDE10A</i>	81,20%	80,50%	100%	100%	Dyskinesia, limb and orofacial, infantile-onset, 616921 Striatal degeneration, autosomal dominant, 616922
<i>PDE11A</i>	99,90%	99,70%	100%	100%	Pigmented nodular adrenocortical disease, primary, 2, 610475
<i>PDE1C</i>	100%	99,60%	100%	100%	?Deafness, autosomal dominant 74, 618140
<i>PDE3A</i>	99,90%	99,40%	100%	100%	Hypertension and brachydactyly syndrome, 112410
<i>PDE4D</i>	95,70%	93,50%	100%	99,80%	Acrodysostosis 2, with or without hormone resistance, 614613
<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>PDE8B</i>	99,90%	99,70%	100%	100%	Striatal degeneration, autosomal dominant, 609161 Pigmented nodular adrenocortical disease, primary, 3, 614190
<i>PDGFB</i>	100%	99,30%	100%	100%	Dermatofibrosarcoma protuberans, 607907 Basal ganglia calcification, idiopathic, 5, 615483 Meningioma, SIS-related, 607174
<i>PDGFRA</i>	100%	100%	100%	100%	Gastrointestinal stromal tumor/GIST-plus syndrome, somatic or familial, 175510 Hypereosinophilic syndrome, idiopathic, resistant to imatinib, 607685
<i>PDGFRB</i>	99,20%	97,50%	100%	100%	Basal ganglia calcification, idiopathic, 4, 615007 Kosaki overgrowth syndrome, 616592 Myofibromatosis, infantile, 1, 228550 Premature aging syndrome, Penttinen type, 601812
<i>PDGFRL</i>	100%	100%	100%	100%	Hepatocellular cancer, somatic, 114550 Colorectal cancer, somatic, 114500
<i>PDHA1</i>	99,40%	97,10%	100%	100%	Pyruvate dehydrogenase E1-alpha deficiency, 312170
<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>PDK3</i>	99,50%	97,20%	100%	100%	?Charcot-Marie-Tooth disease, X-linked dominant, 6, 300905
<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>PDYN</i>	100%	100%	100%	100%	Spinocerebellar ataxia 23, 610245

<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>PER2</i>	100%	99,90%	100%	100%	?Advanced sleep phase syndrome, familial, 1, 604348
<i>PER3</i>	99,90%	98,80%	100%	100%	?Advanced sleep phase syndrome, familial, 3, 616882
<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>PFN1</i>	100%	100%	100%	100%	Amyotrophic lateral sclerosis 18, 614808
<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>PGK1</i>	92,80%	79,30%	100%	100%	Phosphoglycerate kinase 1 deficiency, 300653
<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>PHACTR1</i>	100%	99,70%	100%	100%	Epileptic encephalopathy, early infantile, 70, 618298
<i>PHC1</i>	99,90%	99,20%	100%	100%	?Microcephaly 11, primary, autosomal recessive, 615414
<i>PHEX</i>	100%	99,60%	99,90%	99,20%	Hypophosphatemic rickets, X-linked dominant, 307800
<i>PHF6</i>	97,80%	88,30%	99,90%	98,90%	Borjeson-Forssman-Lehmann syndrome, 301900
<i>PHF8</i>	99,70%	96,80%	100%	100%	Mental retardation syndrome, X-linked, Siderius type, 300263
<i>PHGDH</i>	99,90%	98,80%	100%	100%	Neu-Laxova syndrome 1, 256520 Phosphoglycerate dehydrogenase deficiency, 601815
<i>PHIP</i>	98,60%	96,10%	100%	99,70%	Chung-Jansen syndrome, 617991
<i>PHKA1</i>	99,20%	95,30%	100%	99,90%	Muscle glycogenosis, 300559
<i>PHKA2</i>	100%	99,70%	100%	99,60%	Glycogen storage disease, type IXa2, 306000 Glycogen storage disease, type IXa1, 306000
<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>PHOX2B</i>	100%	99,70%	99,50%	97,80%	Neuroblastoma with Hirschsprung disease, 613013 Central hypoventilation syndrome, congenital, with or without Hirschsprung disease, 209880
<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>TAB2</i>	100%	99,70%	100%	100%	Congenital heart defects, nonsyndromic, 2, 614980
<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>TAF1</i>	99,80%	97,70%	100%	100%	Dystonia-Parkinsonism, X-linked, 314250 Mental retardation, X-linked, syndromic 33, 300966
<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>TAF4B</i>	97,40%	93,10%	100%	100%	?Spermatogenic failure 13, 615841
<i>TAF6</i>	99,80%	98,90%	100%	100%	Alazami-Yuan syndrome, 617126
<i>TAL1</i>	87,10%	73,10%	100%	100%	Leukemia, T-cell acute lymphocytic, somatic, 613065
<i>TAL2</i>	100%	100%	100%	100%	Leukemia, T-cell acute lymphocytic, somatic, 613065

<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>TARDBP</i>	100%	100%	100%	100%	Frontotemporal lobar degeneration, TARDBP-related, 612069 Amyotrophic lateral sclerosis 10, with or without FTD, 612069
<i>TARS</i>	99,90%	98,10%	100%	100%	Trichothiodystrophy 7, nonphotosensitive, 618546
<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>TAZ</i>	99,20%	96,50%	100%	100%	Barth syndrome, 302060
<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>PICALM</i>	99,50%	96,20%	100%	100%	Leukemia, acute myeloid, somatic, 601626
<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>PIGA</i>	93,80%	86,70%	100%	100%	Multiple congenital anomalies-hypotonia-seizures syndrome 2, 300868 Paroxysmal nocturnal hemoglobinuria, somatic, 300818
<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>PIH1D3</i>	99,10%	92,50%	100%	100%	Ciliary dyskinesia, primary, 36, X-linked, 300991
<i>PIK3C2A</i>	99,20%	96,90%	100%	100%	Oculoskeletal-dental syndrome, 618440
<i>PIK3CA</i>	100%	99,80%	100%	100%	Ovarian cancer, somatic, 167000 Colorectal cancer, somatic, 114500 CLAPO syndrome, somatic, 613089 Cowden syndrome 5, 615108 Hepatocellular carcinoma, somatic, 114550 Breast cancer, somatic, 114480 Macrodactyly, somatic, 155500 Keratosis, seborrheic, somatic, 182000 Gastric cancer, somatic, 613659 Megalencephaly-capillary malformation-polymicrogyria syndrome, somatic, 602501 Nevus, epidermal, somatic, 162900 CLOVE syndrome, somatic, 612918 Non-small cell lung cancer, somatic, 211980
<i>PIK3CD</i>	98,80%	96,90%	100%	100%	Immunodeficiency 14, 615513
<i>PIK3R1</i>	99,80%	99,00%	100%	100%	SHORT syndrome, 269880 Immunodeficiency 36, 616005 ?Agammaglobulinemia 7, autosomal recessive, 615214
<i>PIK3R2</i>	90,70%	89,60%	99,30%	96,10%	Megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome 1, 603387
<i>PIK3R5</i>	100%	99,90%	100%	100%	Ataxia-oculomotor apraxia 3, 615217
<i>PIKFYVE</i>	99,90%	99,40%	100%	100%	Corneal fleck dystrophy, 121850
<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>PITPNM3</i>	99,50%	98,70%	100%	100%	Cone-rod dystrophy 5, 600977
<i>PITX1</i>	96,70%	92,00%	100%	100%	Clubfoot, congenital, with or without deficiency of long bones and/or mirror-image polydactyly, 119800
<i>PITX2</i>	99,90%	97,70%	100%	100%	Axenfeld-Rieger syndrome, type 1, 180500 Ring dermoid of cornea, 180550 Anterior segment dysgenesis 4, 137600
<i>PITX3</i>	100%	98,40%	100%	100%	Anterior segment dysgenesis 1, multiple subtypes, 107250 Cataract 11, syndromic, autosomal recessive, 610623 Cataract 11, multiple types, 610623

<i>PKD1</i>	39,20%	30,00%	99,20%	98,90%	Polycystic kidney disease 1, 173900
<i>PKD1L1</i>	100%	99,80%	100%	100%	Heterotaxy, visceral, 8, autosomal, 617205
<i>PKD2</i>	95,50%	91,10%	99,30%	97,70%	Polycystic kidney disease 2, 613095
<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>PKP2</i>	95,40%	88,60%	95,00%	95,00%	Arrhythmogenic right ventricular dysplasia 9, 609040
<i>PLA2G4A</i>	99,90%	99,40%	100%	100%	Gastrointestinal ulceration, recurrent, with dysfunctional platelets, 618372
<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>PLAG1</i>	100%	100%	100%	100%	Adenomas, salivary gland pleomorphic, somatic, 181030
<i>PLAU</i>	100%	99,80%	100%	100%	Quebec platelet disorder, 601709
<i>PLCB1</i>	100%	99,80%	100%	100%	Epileptic encephalopathy, early infantile, 12, 613722
<i>PLCB4</i>	99,90%	98,80%	100%	100%	Auriculocondylar syndrome 2, 614669
<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>PLCG2</i>	100%	99,80%	100%	100%	Familial cold autoinflammatory syndrome 3, 614468 Autoinflammation, antibody deficiency, and immune dysregulation syndrome, 614878
<i>PLCZ1</i>	99,90%	96,90%	100%	100%	?Spermatogenic failure 17, 617214
<i>PLD1</i>	100%	99,60%	100%	100%	Cardiac valvular defect, developmental, 212093
<i>PLD3</i>	99,90%	99,10%	100%	100%	?Spinocerebellar ataxia 46, 617770
<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>PLIN1</i>	99,60%	94,90%	100%	99,50%	Lipodystrophy, familial partial, type 4, 613877
<i>PLK4</i>	99,90%	98,20%	100%	100%	Microcephaly and chorioretinopathy, autosomal recessive, 2, 616171
<i>PLN</i>	100%	100%	100%	100%	Cardiomyopathy, hypertrophic, 18, 613874 Cardiomyopathy, dilated, 1P, 609909
<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>PLP1</i>	100%	99,20%	100%	100%	Pelizaeus-Merzbacher disease, 312080 Spastic paraplegia 2, X-linked, 312920
<i>PLPBP</i>	98,20%	90,10%	100%	100%	Epilepsy, early-onset, vitamin B6-dependent, 617290
<i>PLPP6</i>	99,20%	93,70%	100%	100%	No OMIM disease ID
<i>PLS3</i>	97,70%	96,10%	97,20%	97,20%	Bone mineral density QTL18, osteoporosis, 300910
<i>PLVAP</i>	100%	100%	100%	100%	Diarrhea 10, protein-losing enteropathy type, 618183
<i>PMFBP1</i>	99,90%	99,30%	100%	100%	Spermatogenic failure 31, 618112
<i>PML</i>	100%	99,80%	100%	100%	Leukemia, acute promyelocytic, PML/RARA type, 0
<i>PMM2</i>	100%	100%	100%	100%	Congenital disorder of glycosylation, type Ia, 212065
<i>PMP2</i>	100%	100%	100%	100%	Charcot-Marie-Tooth disease, demyelinating, type 1G, 618279
<i>PMP22</i>	99,20%	95,20%	95,40%	88,50%	Dejerine-Sottas disease, 145900 ?Neuropathy, inflammatory demyelinating, 139393 Charcot-Marie-Tooth disease, type 1E, 118300 Roussy-Levy syndrome, 180800 Neuropathy, recurrent, with pressure palsies, 162500 Charcot-Marie-Tooth disease, type 1A, 118220
<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>PMVK</i>	100%	100%	100%	100%	Porokeratosis 1, multiple types, 175800
<i>PNKD</i>	100%	99,90%	100%	100%	Paroxysmal nonkinesigenic dyskinesia 1, 118800
<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 paraplegia 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>POF1B</i>	95,60%	86,90%	100%	99,80%	?Premature ovarian failure 2B, 300604
<i>POFUT1</i>	100%	99,00%	100%	100%	Dowling-Degos disease 2, 615327
<i>POGLUT1</i>	99,40%	94,60%	100%	100%	?Muscular dystrophy, limb-girdle, autosomal recessive 21, 617232 Dowling-Degos disease 4, 615696
<i>POGZ</i>	99,40%	99,00%	100%	100%	White-Sutton syndrome, 616364
<i>POLA1</i>	99,30%	95,40%	100%	99,90%	Pigmentary disorder, reticulate, with systemic manifestations, X-linked, 301220 Van Esch-O'Driscoll syndrome, 301030
<i>POLD1</i>	98,50%	95,20%	100%	100%	Mandibular hypoplasia, deafness, progeroid features, and lipodystrophy syndrome, 615381
<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>POLG2</i>	99,60%	98,00%	100%	99,90%	Progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal dominant 4, 610131 Mitochondrial DNA depletion syndrome 16 (hepatic type), 618528
<i>POLH</i>	100%	99,60%	100%	100%	Xeroderma pigmentosum, variant type, 278750
<i>POLR1A</i>	100%	99,40%	100%	100%	Acrofacial dysostosis, Cincinnati type, 616462
<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>POLR2A</i>	100%	100%	100%	100%	Neurodevelopmental disorder with hypotonia and variable intellectual and behavioral abnormalities, 618603
<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>PORCN</i>	100%	99,10%	100%	100%	Focal dermal hypoplasia, 305600
<i>POU1F1</i>	100%	99,20%	100%	100%	Pituitary hormone deficiency, combined, 1, 613038
<i>POU3F3</i>	73,20%	59,60%	94,90%	83,80%	Snijders Blok-Fisher syndrome, 618604
<i>POU3F4</i>	100%	100%	100%	100%	Deafness, X-linked 2, 304400
<i>POU4F3</i>	100%	100%	100%	100%	Deafness, autosomal dominant 15, 602459
<i>PPA2</i>	98,70%	94,00%	100%	100%	?Sudden cardiac failure, alcohol-induced, 617223 Sudden cardiac failure, infantile, 617222
<i>PPARG</i>	100%	100%	100%	100%	Carotid intimal medial thickness 1, 609338 Insulin resistance, severe, digenic, 604367 Obesity, severe, 601665 Lipodystrophy, familial partial, type 3, 604367
<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>PPM1D</i>	100%	99,90%	100%	100%	Breast cancer, somatic, 114480 Jansen de Vries syndrome, 617450
<i>PPM1K</i>	100%	100%	100%	100%	?Maple syrup urine disease, mild variant, 615135
<i>PPOX</i>	99,70%	96,80%	100%	100%	Porphyria variegata, 176200
<i>PPP1CB</i>	99,90%	99,30%	100%	100%	Noonan syndrome-like disorder with loose anagen hair 2, 617506

<i>PPP1R15B</i>	100%	99,60%	100%	100%	Microcephaly, short stature, and impaired glucose metabolism 2, 616817
<i>PPP1R3A</i>	99,70%	99,20%	100%	100%	Insulin resistance, severe, digenic, 125853
<i>PPP2CA</i>	100%	100%	100%	100%	Neurodevelopmental disorder and language delay with or without structural brain abnormalities, 618354
<i>PPP2R1A</i>	91,60%	91,50%	93,60%	93,60%	Mental retardation, autosomal dominant 36, 616362
<i>PPP2R1B</i>	100%	99,90%	100%	100%	Lung cancer, somatic, 211980
<i>PPP2R2B</i>	100%	99,40%	100%	100%	Spinocerebellar ataxia 12, 604326
<i>PPP2R3C</i>	99,60%	94,90%	100%	100%	Spermatogenic failure 36, 618420 Gonadal dysgenesis, dysmorphic facies, retinal dystrophy, and myopathy, 618419
<i>PPP2R5D</i>	100%	100%	100%	100%	Mental retardation, autosomal dominant 35, 616355
<i>PPP3CA</i>	99,80%	98,40%	100%	100%	Epileptic encephalopathy, infantile or early childhood, 1, 617711 Arthrogryposis, cleft palate, craniosynostosis, and impaired intellectual development, 618265
<i>PPT1</i>	90,30%	90,30%	82,50%	82,50%	Ceroid lipofuscinosis, neuronal, 1, 256730
<i>PQBP1</i>	100%	100%	100%	100%	Renpenning syndrome, 309500
<i>PRCC</i>	99,90%	98,50%	100%	100%	Renal cell carcinoma, papillary, 605074
<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>PRDM16</i>	99,80%	99,10%	100%	100%	Left ventricular noncompaction 8, 615373 Cardiomyopathy, dilated, 1LL, 615373
<i>PRDM5</i>	99,90%	99,20%	100%	100%	Brittle cornea syndrome 2, 614170
<i>PRDM6</i>	95,80%	87,80%	100%	100%	Patent ductus arteriosus 3, 617039
<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>PRIMPOL</i>	97,50%	94,60%	100%	100%	Myopia 22, autosomal dominant, 615420
<i>PRKACA</i>	80,10%	79,30%	100%	100%	Cushing syndrome, ACTH-independent adrenal, somatic, 615830
<i>PRKACG</i>	100%	99,90%	100%	100%	?Bleeding disorder, platelet-type, 19, 616176
<i>PRKAG2</i>	99,10%	97,50%	100%	100%	Glycogen storage disease of heart, lethal congenital, 261740 Wolff-Parkinson-White syndrome, 194200 Cardiomyopathy, hypertrophic 6, 600858
<i>PRKAR1A</i>	99,30%	93,50%	100%	100%	Myxoma, intracardiac, 255960 Carney complex, type 1, 160980 Pigmented nodular adrenocortical disease, primary, 1, 610489

					Acrodysostosis 1, with or without hormone resistance, 101800 Adrenocortical tumor, somatic, 0
<i>PRKCA</i>	100%	100%	100%	100%	Pituitary tumor, invasive, 0
<i>PRKCD</i>	100%	100%	100%	100%	Autoimmune lymphoproliferative syndrome, type III, 615559
<i>PRKCG</i>	99,90%	98,40%	100%	100%	Spinocerebellar ataxia 14, 605361
<i>PRKCSH</i>	99,80%	95,40%	100%	100%	Polycystic liver disease 1, 174050
<i>PRKD1</i>	99,60%	98,70%	100%	100%	Congenital heart defects and ectodermal dysplasia, 617364
<i>PRKDC</i>	99,70%	98,00%	100%	100%	Immunodeficiency 26, with or without neurologic abnormalities, 615966
<i>PRKG1</i>	99,80%	98,30%	100%	100%	Aortic aneurysm, familial thoracic 8, 615436
<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>PRLR</i>	99,90%	99,80%	100%	100%	Hyperprolactinemia, 615555 Multiple fibroadenomas of the breast, 615554
<i>PRMT7</i>	100%	99,90%	100%	100%	Short stature, brachydactyly, intellectual developmental disability, and seizures, 617157
<i>PRNP</i>	100%	100%	100%	100%	Insomnia, fatal familial, 600072 Huntington disease-like 1, 603218 Prion disease with protracted course, 606688 Cerebral amyloid angiopathy, PRNP-related, 137440 Creutzfeldt-Jakob disease, 123400 Gerstmann-Straussler disease, 137440
<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>PROK2</i>	99,90%	98,50%	100%	100%	Hypogonadotropic hypogonadism 4 with or without anosmia, 610628
<i>PROKR2</i>	100%	100%	100%	100%	Hypogonadotropic hypogonadism 3 with or without anosmia, 244200
<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>PRPF3</i>	98,80%	95,30%	100%	100%	Retinitis pigmentosa 18, 601414
<i>PRPF31</i>	100%	98,70%	100%	100%	Retinitis pigmentosa 11, 600138
<i>PRPF4</i>	100%	99,80%	100%	100%	Retinitis pigmentosa 70, 615922
<i>PRPF6</i>	100%	99,80%	100%	100%	Retinitis pigmentosa 60, 613983

<i>PRPF8</i>	100%	99,30%	100%	100%	Retinitis pigmentosa 13, 600059
<i>PRPH2</i>	100%	100%	100%	100%	Macular dystrophy, patterned, 1, 169150 Retinitis punctata albescens, 136880 Choroidal dystrophy, central areolar 2, 613105 Retinitis pigmentosa 7 and digenic form, 608133 Leber congenital amaurosis 18, 608133 Macular dystrophy, vitelliform, 3, 608161
<i>PRPS1</i>	100%	100%	100%	100%	Charcot-Marie-Tooth disease, X-linked recessive, 5, 311070 Phosphoribosylpyrophosphate synthetase superactivity, 300661 Deafness, X-linked 1, 304500 Arts syndrome, 301835 Gout, PRPS-related, 300661
<i>PRRT2</i>	100%	99,60%	100%	100%	Episodic kinesigenic dyskinesia 1, 128200 Seizures, benign familial infantile, 2, 605751 Convulsions, familial infantile, with paroxysmal choreoathetosis, 602066
<i>PRRX1</i>	100%	99,70%	100%	100%	Agnathia-otocephaly complex, 202650
<i>PRSS1</i>	100%	100%	100%	100%	Pancreatitis, hereditary, 167800
<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>PSEN1</i>	100%	100%	100%	100%	Alzheimer disease, type 3, with spastic paraparesis and unusual plaques, 607822 Alzheimer disease, type 3, with spastic paraparesis and apraxia, 607822 ?Acne inversa, familial, 3, 613737 Alzheimer disease, type 3, 607822 Dementia, frontotemporal, 600274 Pick disease, 172700 Cardiomyopathy, dilated, 1U, 613694
<i>PSEN2</i>	100%	100%	100%	100%	Alzheimer disease-4, 606889 Cardiomyopathy, dilated, 1V, 613697
<i>PSENEN</i>	100%	100%	100%	100%	Acne inversa, familial, 2, with or without Dowling-Degos disease, 613736

<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>PSMD12</i>	98,60%	92,90%	100%	100%	Stankiewicz-Isidor syndrome, 617516
<i>PSPH</i>	100%	100%	100%	100%	Phosphoserine phosphatase deficiency, 614023
<i>PSTPIP1</i>	100%	99,10%	100%	99,90%	Pyogenic sterile arthritis, pyoderma gangrenosum, and acne, 604416
<i>PTCH1</i>	99,20%	97,60%	99,90%	99,80%	Basal cell carcinoma, somatic, 605462 Basal cell nevus syndrome, 109400 Holoprosencephaly 7, 610828
<i>PTCH2</i>	99,90%	99,00%	100%	100%	Basal cell carcinoma, somatic, 605462 Basal cell nevus syndrome, 109400 Medulloblastoma, somatic, 155255
<i>PTDSS1</i>	100%	100%	100%	100%	Lenz-Majewski hyperostotic dwarfism, 151050
<i>PTEN</i>	99,50%	97,00%	100%	100%	Prostate cancer, somatic, 176807 Cowden syndrome 1, 158350 Lhermitte-Duclos syndrome, 158350 Macrocephaly/autism syndrome, 605309
<i>PTF1A</i>	95,80%	85,60%	98,60%	93,30%	Pancreatic and cerebellar agenesis, 609069 Pancreatic agenesis 2, 615935
<i>PTGIS</i>	98,20%	95,10%	100%	100%	Hypertension, essential, 145500
<i>PTH</i>	99,70%	97,00%	100%	100%	Hypoparathyroidism, autosomal dominant, 146200 Hypoparathyroidism, autosomal recessive, 146200
<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>PTHLH</i>	99,70%	98,40%	100%	100%	Brachydactyly, type E2, 613382
<i>PTPN11</i>	99,10%	93,70%	100%	100%	LEOPARD syndrome 1, 151100 Metachondromatosis, 156250 Noonan syndrome 1, 163950 Leukemia, juvenile myelomonocytic, somatic, 607785
<i>PTPN12</i>	99,10%	96,80%	100%	100%	Colon cancer, somatic, 114500
<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>PTPRF</i>	100%	99,70%	100%	100%	?Breasts and/or nipples, aplasia or hypoplasia of, 616001
<i>PTPRJ</i>	97,70%	97,20%	99,90%	99,60%	Colon cancer, somatic, 114500
<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>PUF60</i>	100%	99,30%	100%	100%	Verheij syndrome, 615583
<i>PUM1</i>	100%	99,90%	100%	100%	Spinocerebellar ataxia 47, 617931
<i>PURA</i>	99,00%	95,20%	100%	99,80%	Mental retardation, autosomal dominant 31, 616158
<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>QRICH1</i>	100%	99,90%	100%	100%	Ververi-Brady syndrome, 617982
<i>QRICH2</i>	94,30%	93,50%	100%	100%	Spermatogenic failure 35, 618341
<i>RAB11B</i>	100%	100%	100%	100%	Neurodevelopmental disorder with ataxic gait, absent speech, and decreased cortical white matter, 617807
<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%	Griscelli 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>RAB39B</i>	100%	100%	100%	100%	Waisman syndrome, 311510 Mental retardation, X-linked 72, 300271
<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>RAB7A</i>	100%	99,90%	100%	100%	Charcot-Marie-Tooth disease, type 2B, 600882
<i>RAC1</i>	99,90%	96,20%	100%	99,90%	Mental retardation, autosomal dominant 48, 617751
<i>RAC2</i>	99,90%	98,30%	100%	100%	Neutrophil immunodeficiency syndrome, 608203
<i>RAC3</i>	97,30%	94,40%	99,70%	98,20%	Neurodevelopmental disorder with structural brain anomalies and dysmorphic facies, 618577

<i>RAD21</i>	99,20%	96,60%	100%	100%	?Mungan syndrome, 611376 Cornelia de Lange syndrome 4, 614701
<i>RAD50</i>	97,50%	91,60%	100%	100%	Nijmegen breakage syndrome-like disorder, 613078
<i>RAD51</i>	89,40%	89,40%	89,40%	89,40%	?Fanconi anemia, complementation group R, 617244 Mirror movements 2, 614508
<i>RAD51C</i>	100%	99,80%	100%	100%	Fanconi anemia, complementation group O, 613390
<i>RAD54B</i>	99,70%	97,30%	100%	100%	Colon cancer, somatic, 114500 Lymphoma, non-Hodgkin, somatic, 605027
<i>RAD54L</i>	100%	98,90%	100%	100%	Lymphoma, non-Hodgkin, somatic, 605027 Adenocarcinoma, colonic, somatic, 0
<i>RAF1</i>	100%	100%	100%	100%	LEOPARD syndrome 2, 611554 Noonan syndrome 5, 611553 Cardiomyopathy, dilated, 1NN, 615916
<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>RAI1</i>	100%	100%	100%	100%	Smith-Magenis syndrome, 182290
<i>RAP1GDS1</i>	99,80%	96,80%	100%	100%	Lymphocytic leukemia, acute T-cell, 0
<i>RAPGEF2</i>	99,80%	99,10%	100%	100%	?Epilepsy, familial adult myoclonic, 7, 618075
<i>RAPSN</i>	100%	99,70%	100%	100%	Fetal akinesia 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>RASA1</i>	98,80%	96,30%	100%	100%	Capillary malformation-arteriovenous malformation 1, 608354 Basal cell carcinoma, somatic, 605462
<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>RAX2</i>	100%	92,30%	100%	100%	?Macular degeneration, age-related, 6, 613757 Cone-rod dystrophy 11, 610381
<i>RB1</i>	98,50%	93,70%	100%	100%	Small cell cancer of the lung, somatic, 182280 Bladder cancer, somatic, 109800

					Retinoblastoma, trilateral, 180200 Osteosarcoma, somatic, 259500 Retinoblastoma, 180200
<i>RB1CC1</i>	99,60%	96,70%	100%	100%	Breast cancer, somatic, 114480
<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>RBM10</i>	99,50%	97,10%	100%	100%	TARP syndrome, 311900
<i>RBM20</i>	100%	99,90%	100%	100%	Cardiomyopathy, dilated, 1DD, 613172
<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>RBMX</i>	94,60%	84,00%	100%	100%	?Mental retardation, X-linked, syndromic 11, Shashi type, 300238
<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>RBPJ</i>	98,40%	92,80%	100%	100%	Adams-Oliver syndrome 3, 614814
<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>REEP1</i>	78,70%	76,10%	100%	100%	Spastic paraparesis 31, autosomal dominant, 610250 ?Neuronopathy, distal hereditary motor, type VB, 614751
<i>REEP2</i>	99,90%	98,60%	100%	100%	?Spastic paraparesis 72, autosomal dominant, 615625 ?Spastic paraparesis 72, autosomal recessive, 615625
<i>REEP6</i>	100%	100%	100%	100%	Retinitis pigmentosa 77, 617304
<i>RELA</i>	99,60%	98,80%	100%	100%	?Mucocutaneous ulceration, chronic, 618287
<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>RELT</i>	100%	99,90%	100%	100%	Amelogenesis imperfecta, type IIIC, 618386
<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>RERE</i>	96,30%	91,40%	100%	100%	Neurodevelopmental disorder with or without anomalies of the brain, eye, or heart, 616975
<i>REST</i>	98,50%	98,20%	98,60%	98,60%	Fibromatosis, gingival, 5, 617626 ?Deafness, autosomal dominant 27, 612431
<i>RET</i>	99,90%	99,10%	100%	100%	Multiple endocrine neoplasia IIB, 162300 Pheochromocytoma, 171300 Multiple endocrine neoplasia IIA, 171400 Medullary thyroid carcinoma, 155240 Central hypoventilation syndrome, congenital, 209880
<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>RGS9</i>	98,50%	97,10%	100%	100%	Bradyopsia, 608415
<i>RGS9BP</i>	99,60%	95,00%	100%	100%	Bradyopsia, 608415
<i>RHAG</i>	100%	99,70%	100%	100%	Overhydrated hereditary stomatocytosis, 185000 Anemia, hemolytic, Rh-null, regulator type, 268150
<i>RHBDF2</i>	99,90%	98,60%	100%	100%	Tylosis with esophageal cancer, 148500
<i>RHCE</i>	98,10%	98,10%	97,60%	97,50%	Rh-null disease, amorph type, 617970
<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>RHOBTB2</i>	100%	100%	100%	100%	Epileptic encephalopathy, early infantile, 64, 618004
<i>RIMS1</i>	99,80%	97,70%	100%	100%	Cone-rod dystrophy 7, 603649
<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>RIT1</i>	100%	100%	100%	100%	Noonan syndrome 8, 615355
<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>RLIM</i>	100%	99,00%	100%	100%	Tonne-Kalscheuer syndrome, 300978
<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>RNASEL</i>	100%	99,80%	100%	100%	Prostate cancer 1, 601518
<i>RNASET2</i>	97,40%	93,10%	100%	100%	Leukoencephalopathy, cystic, without megalencephaly, 612951
<i>RNF113A</i>	100%	100%	100%	100%	?Trichothiodystrophy 5, nonphotosensitive, 300953
<i>RNF125</i>	99,90%	99,20%	100%	100%	Tenorio syndrome, 616260
<i>RNF13</i>	95,20%	81,60%	100%	100%	Epileptic encephalopathy, early infantile, 73, 618379
<i>RNF139</i>	100%	100%	100%	100%	Renal cell carcinoma, 144700
<i>RNF168</i>	100%	99,80%	100%	100%	RIDDLE syndrome, 611943
<i>RNF170</i>	99,60%	97,60%	100%	100%	Ataxia, sensory, 1, autosomal dominant, 608984
<i>RNF212</i>	100%	99,60%	100%	100%	Recombination rate QTL 1, 612042
<i>RNF216</i>	99,80%	98,70%	100%	100%	Cerebellar ataxia and hypogonadotropic hypogonadism, 212840
<i>RNF43</i>	99,90%	99,10%	100%	100%	Sessile serrated polyposis cancer syndrome, 617108
<i>RNF6</i>	100%	99,70%	100%	100%	Esophageal carcinoma, somatic, 133239
<i>RNPC3</i>	91,50%	70,70%	100%	100%	?Growth hormone deficiency, isolated, type V, 618160
<i>RNU4ATAC</i>	NC	NC	NC	NC	Microcephalic osteodysplastic primordial dwarfism, type I, 210710 Roifman syndrome, 616651
<i>ROBO2</i>	99,40%	97,80%	100%	100%	Vesicoureteral reflux 2, 610878
<i>ROBO3</i>	98,90%	96,10%	100%	100%	Gaze palsy, familial horizontal, with progressive scoliosis, 1, 607313
<i>ROBO4</i>	99,90%	98,60%	100%	100%	Aortic valve disease 8, 618496
<i>ROGDI</i>	98,40%	95,20%	99,90%	99,10%	Kohlschutter-Tonz syndrome, 226750
<i>ROM1</i>	100%	99,90%	100%	100%	Retinitis pigmentosa 7, digenic form, 608133
<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>RORA</i>	96,70%	90,20%	100%	100%	Intellectual developmental disorder with or without epilepsy or cerebellar ataxia, 618060
<i>RORC</i>	100%	100%	100%	100%	Immunodeficiency 42, 616622
<i>RP1</i>	91,50%	90,60%	100%	100%	Retinitis pigmentosa 1, 180100
<i>RP1L1</i>	100%	100%	100%	100%	Retinitis pigmentosa 88, 618826 Occult macular dystrophy, 613587
<i>RP2</i>	100%	99,80%	100%	100%	Retinitis pigmentosa 2, 312600
<i>RP9</i>	80,80%	75,90%	100%	99,30%	?Retinitis pigmentosa 9, 180104
<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>RPGR</i>	77,30%	72,70%	100%	99,90%	Cone-rod dystrophy, X-linked, 1, 304020 Retinitis pigmentosa 3, 300029 Retinitis pigmentosa, X-linked, and sinorespiratory infections, with or without deafness, 300455 Macular degeneration, X-linked atrophic, 300834
<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>RPL10</i>	97,40%	89,10%	100%	100%	Mental retardation, X-linked, syndromic, 35, 300998
<i>RPL11</i>	100%	100%	100%	100%	Diamond-Blackfan anemia 7, 612562
<i>RPL15</i>	86,80%	78,00%	100%	100%	?Diamond-Blackfan anemia 12, 615550
<i>RPL18</i>	100%	100%	100%	100%	?Diamond-Blackfan anemia 18, 618310
<i>RPL21</i>	88,80%	71,70%	100%	100%	Hypotrichosis 12, 615885
<i>RPL26</i>	97,20%	84,40%	100%	100%	?Diamond-Blackfan anemia 11, 614900
<i>RPL27</i>	73,60%	56,50%	100%	100%	?Diamond-Blackfan anemia 16, 617408
<i>RPL35</i>	86,40%	75,00%	100%	100%	?Diamond-Blackfan anemia 19, 618312
<i>RPL35A</i>	97,10%	88,70%	100%	100%	Diamond-Blackfan anemia 5, 612528
<i>RPL5</i>	86,20%	70,00%	100%	100%	Diamond-Blackfan anemia 6, 612561
<i>RPS10</i>	97,70%	91,70%	100%	100%	Diamond-Blackfan anemia 9, 613308
<i>RPS14</i>	98,80%	95,00%	100%	100%	Macrocytic anemia, refractory, due to 5q deletion, somatic, 153550
<i>RPS15A</i>	96,90%	86,70%	80,50%	80,40%	?Diamond-Blackfan anemia 20, 618313
<i>RPS17</i>	84,20%	69,80%	100%	100%	Diamond-Blackfan anemia 4, 612527
<i>RPS19</i>	100%	99,60%	100%	100%	Diamond-Blackfan anemia 1, 105650

<i>RPS23</i>	87,80%	80,10%	100%	100%	Brachycephaly, trichomegaly, and developmental delay, 617412
<i>RPS24</i>	98,50%	93,40%	100%	100%	Diamond-blackfan anemia 3, 610629
<i>RPS26</i>	95,70%	84,90%	100%	100%	Diamond-Blackfan anemia 10, 613309
<i>RPS27</i>	89,30%	60,90%	100%	99,80%	?Diamond-Blackfan anemia 17, 617409
<i>RPS28</i>	100%	94,80%	100%	100%	Diamond Blackfan anemia 15 with mandibulofacial dysostosis, 606164
<i>RPS29</i>	100%	98,20%	100%	100%	Diamond-Blackfan anemia 13, 615909
<i>RPS6KA3</i>	98,40%	94,40%	99,90%	98,80%	Mental retardation, X-linked 19, 300844 Coffin-Lowry syndrome, 303600
<i>RPS7</i>	80,00%	68,70%	100%	100%	Diamond-Blackfan anemia 8, 612563
<i>RPSA</i>	100%	99,80%	100%	100%	Asplenia, isolated congenital, 271400
<i>RRAS2</i>	96,80%	88,70%	100%	100%	Noonan syndrome 12, 618624 Ovarian carcinoma, 0
<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>RS1</i>	99,80%	93,90%	100%	100%	Retinoschisis, 312700
<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>RTN2</i>	100%	99,20%	100%	100%	Spastic paraparesis 12, autosomal dominant, 604805
<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>RUNX1</i>	99,30%	94,90%	100%	100%	Leukemia, acute myeloid, 601626 Platelet disorder, familial, with associated myeloid malignancy, 601399

<i>RUNX2</i>	72,20%	72,20%	100%	100%	Cleidocranial dysplasia, forme fruste, with brachydactyly, 119600 Metaphyseal dysplasia with maxillary hypoplasia with or without brachydactyly, 156510 Cleidocranial dysplasia, 119600 Cleidocranial dysplasia, forme fruste, dental anomalies only, 119600
<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>RYR2</i>	99,90%	99,00%	100%	100%	Ventricular tachycardia, catecholaminergic polymorphic, 1, 604772 Arrhythmogenic right ventricular dysplasia 2, 600996
<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>SALL1</i>	99,90%	99,00%	100%	100%	Townes-Brocks syndrome 1, 107480 Townes-Brocks branchiootorenal-like syndrome, 107480
<i>SALL2</i>	100%	100%	100%	100%	?Coloboma, ocular, autosomal recessive, 216820
<i>SALL4</i>	98,60%	96,70%	100%	100%	Duane-radial ray syndrome, 607323 IVIC syndrome, 147750
<i>SAMD12</i>	100%	100%	100%	100%	Epilepsy, familial adult myoclonic, 1, 601068
<i>SAMD9</i>	100%	99,80%	100%	100%	MIRAGE syndrome, 617053 Tumoral calcinosis, familial, normophosphatemic, 610455
<i>SAMD9L</i>	100%	100%	100%	100%	Ataxia-pancytopenia syndrome, 159550
<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>SATB2</i>	99,70%	97,40%	100%	100%	Glass syndrome, 612313
<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>SCN10A</i>	100%	99,70%	100%	100%	Episodic pain syndrome, familial, 2, 615551
<i>SCN11A</i>	99,80%	98,30%	100%	100%	Episodic pain syndrome, familial, 3, 615552 Neuropathy, hereditary sensory and autonomic, type VII, 615548
<i>SCN1A</i>	99,90%	99,50%	100%	100%	Febrile seizures, familial, 3A, 604403 Migraine, familial hemiplegic, 3, 609634 Epilepsy, generalized, with febrile seizures plus, type 2, 604403 Epileptic encephalopathy, early infantile, 6 (Dravet syndrome), 607208
<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>SCN2A</i>	99,60%	97,60%	100%	100%	Epileptic encephalopathy, early infantile, 11, 613721 Seizures, benign familial infantile, 3, 607745
<i>SCN2B</i>	100%	100%	100%	100%	Atrial fibrillation, familial, 14, 615378
<i>SCN3A</i>	99,90%	99,30%	100%	100%	Epilepsy, familial focal, with variable foci 4, 617935 Epileptic encephalopathy, early infantile, 62, 617938
<i>SCN3B</i>	100%	100%	100%	100%	Brugada syndrome 7, 613120 Atrial fibrillation, familial, 16, 613120
<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>SCN4B</i>	100%	99,60%	100%	100%	Atrial fibrillation, familial, 17, 611819 Long QT syndrome 10, 611819
<i>SCN5A</i>	99,00%	99,00%	100%	100%	Atrial fibrillation, familial, 10, 614022 Sick sinus syndrome 1, 608567 Ventricular fibrillation, familial, 1, 603829 Long QT syndrome 3, 603830 Heart block, nonprogressive, 113900 Cardiomyopathy, dilated, 1E, 601154 Brugada syndrome 1, 601144 Heart block, progressive, type IA, 113900
<i>SCN8A</i>	100%	99,80%	100%	100%	Seizures, benign familial infantile, 5, 617080 Cognitive impairment with or without cerebellar ataxia, 614306

					?Myoclonus, familial, 2, 618364 Epileptic encephalopathy, early infantile, 13, 614558
SCN9A	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
SCNN1A	99,70%	98,20%	100%	100%	Pseudohypoaldosteronism, type I, 264350 ?Liddle syndrome 3, 618126 Bronchiectasis with or without elevated sweat chloride 2, 613021
SCNN1B	100%	99,70%	100%	100%	Pseudohypoaldosteronism, type I, 264350 Liddle syndrome 1, 177200 Bronchiectasis with or without elevated sweat chloride 1, 211400
SCNN1G	99,80%	98,30%	100%	100%	Liddle syndrome 2, 618114 Pseudohypoaldosteronism, type I, 264350 Bronchiectasis with or without elevated sweat chloride 3, 613071
SCO1	97,10%	93,80%	100%	100%	Mitochondrial complex IV deficiency, 220110
SCO2	100%	100%	100%	100%	Myopia 6, 608908 Cardioencephalomyopathy, fatal infantile, due to cytochrome c oxidase deficiency 1, 604377
SCP2	100%	99,20%	100%	100%	?Leukoencephalopathy with dystonia and motor neuropathy, 613724
SCYL1	100%	100%	100%	100%	Spinocerebellar ataxia, autosomal recessive 21, 616719
SDCCAG8	100%	99,90%	100%	100%	Bardet-Biedl syndrome 16, 615993 Senior-Loken syndrome 7, 613615
SDHA	85,80%	80,40%	100%	100%	Leigh syndrome, 256000 Paragangliomas 5, 614165 Cardiomyopathy, dilated, 1GG, 613642 Mitochondrial respiratory chain complex II deficiency, 252011
SDHAF1	99,90%	93,20%	100%	100%	Mitochondrial complex II deficiency, 252011
SDHAF2	94,60%	94,20%	98,90%	95,40%	Paragangliomas 2, 601650
SDHB	100%	100%	100%	100%	Gastrointestinal stromal tumor, 606764 Pheochromocytoma, 171300 Paragangliomas 4, 115310 Paraganglioma and gastric stromal sarcoma, 606864
SDHC	100%	99,30%	100%	100%	Paragangliomas 3, 605373 Paraganglioma and gastric stromal sarcoma, 606864 Gastrointestinal stromal tumor, 606764

<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>SEC61A1</i>	100%	100%	100%	100%	Hyperuricemic nephropathy, familial juvenile, 4, 617056
<i>SEC63</i>	91,20%	83,30%	100%	100%	Polycystic liver disease 2, 617004
<i>SECISBP2</i>	99,80%	97,40%	100%	100%	Thyroid hormone metabolism, abnormal, 609698
<i>SELENBP1</i>	100%	100%	100%	100%	Extraoral halitosis due to MTO deficiency, 618148
<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>SEMA3E</i>	100%	99,60%	100%	100%	?CHARGE syndrome, 214800
<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>SEPT12</i>	100%	98,80%	100%	100%	Spermatogenic failure 10, 614822
<i>SEPT9</i>	100%	99,90%	100%	100%	Amyotrophy, hereditary neuralgic, 162100
<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>SERPINA3</i>	100%	100%	100%	100%	Cerebrovascular disease, occlusive, 0 Alpha-1-antichymotrypsin deficiency, 0
<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>SERPIND1</i>	100%	100%	100%	100%	Thrombophilia due to heparin cofactor II deficiency, 612356
<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>SERPINI1</i>	99,90%	99,00%	100%	100%	Encephalopathy, familial, with neuroserpin inclusion bodies, 604218
<i>SET</i>	98,30%	90,50%	98,90%	97,00%	Mental retardation, autosomal dominant 58, 618106
<i>SETBP1</i>	99,90%	98,70%	100%	100%	Mental retardation, autosomal dominant 29, 616078 Schinzel-Giedion midface retraction syndrome, 269150
<i>SETD2</i>	100%	99,90%	100%	100%	Luscan-Lumish syndrome, 616831
<i>SETD5</i>	100%	99,80%	100%	100%	Mental retardation, autosomal dominant 23, 615761
<i>SETX</i>	100%	99,80%	100%	100%	Spinocerebellar ataxia, autosomal recessive, with axonal neuropathy 2, 606002 Amyotrophic lateral sclerosis 4, juvenile, 602433
<i>SF3B1</i>	99,70%	98,60%	100%	100%	Myelodysplastic syndrome, somatic, 614286
<i>SF3B4</i>	99,90%	97,30%	100%	100%	Acrofacial dysostosis 1, Nager type, 154400
<i>SFRP4</i>	100%	99,80%	100%	100%	Pyle disease, 265900
<i>SFTPA2</i>	100%	100%	100%	100%	Pulmonary fibrosis, idiopathic, 178500
<i>SFTPB</i>	99,50%	96,80%	100%	100%	Surfactant metabolism dysfunction, pulmonary, 1, 265120
<i>SFTPC</i>	99,20%	95,70%	100%	100%	Surfactant metabolism dysfunction, pulmonary, 2, 610913
<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>SGCE</i>	98,70%	94,00%	95,20%	95,20%	Dystonia-11, myoclonic, 159900
<i>SGCG</i>	100%	99,20%	100%	100%	Muscular dystrophy, limb-girdle, autosomal recessive 5, 253700
<i>SGMS2</i>	100%	100%	100%	100%	Calvarial doughnut lesions with bone fragility with or without spondylometaphyseal dysplasia, 126550
<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>SH2B3</i>	99,40%	95,10%	100%	99,90%	Myelofibrosis, somatic, 254450 Thrombocythemia, somatic, 187950 Erythrocytosis, somatic, 133100
<i>SH2D1A</i>	97,20%	94,00%	100%	100%	Lymphoproliferative syndrome, X-linked, 1, 308240
<i>SH3BP2</i>	91,40%	91,20%	97,00%	95,30%	Cherubism, 118400
<i>SH3KBP1</i>	99,70%	95,90%	100%	100%	?Immunodeficiency 61, 300310
<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>SHANK3</i>	92,20%	82,10%	98,00%	94,40%	Phelan-McDermid syndrome, 606232
<i>SHH</i>	100%	99,50%	100%	100%	Schizencephaly, 269160 Microphthalmia with coloboma 5, 611638 Single median maxillary central incisor, 147250 Holoprosencephaly 3, 142945
<i>SHOC2</i>	99,90%	99,40%	100%	100%	Noonan syndrome-like with loose anagen hair, 607721
<i>SHOX</i>	70,00%	59,70%	95,10%	95,10%	Langer mesomelic dysplasia, 249700 Short stature, idiopathic familial, 300582 Leri-Weill dyschondrosteosis, 127300
<i>SHROOM4</i>	100%	99,00%	100%	100%	Stocco dos Santos X-linked mental retardation syndrome, 300434
<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>SIK1</i>	98,70%	94,40%	100%	100%	Epileptic encephalopathy, early infantile, 30, 616341
<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>SIN3A</i>	100%	99,00%	100%	100%	Witteveen-Kolk syndrome, 613406
<i>SIPA1L3</i>	99,90%	98,90%	100%	100%	?Cataract 45, 616851
<i>SIX1</i>	100%	99,20%	100%	100%	Deafness, autosomal dominant 23, 605192 Branchiootic syndrome 3, 608389
<i>SIX3</i>	99,90%	98,60%	100%	100%	Holoprosencephaly 2, 157170 Schizencephaly, 269160
<i>SIX5</i>	95,40%	88,20%	100%	100%	Branchiootorenal syndrome 2, 610896
<i>SIX6</i>	100%	100%	100%	100%	Optic disc anomalies with retinal and/or macular dystrophy, 212550
<i>SKI</i>	99,30%	94,90%	100%	99,40%	Shprintzen-Goldberg syndrome, 182212
<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>SLC16A12</i>	100%	99,90%	100%	100%	Cataract 47, juvenile, with microcornea, 612018
<i>SLC16A2</i>	99,20%	93,70%	100%	100%	Allan-Herndon-Dudley syndrome, 300523
<i>SLC17A5</i>	99,60%	97,00%	100%	100%	Sialic acid storage disorder, infantile, 269920 Salla disease, 604369
<i>SLC17A8</i>	100%	100%	100%	100%	Deafness, autosomal dominant 25, 605583
<i>SLC17A9</i>	96,30%	95,40%	100%	100%	Porokeratosis 8, disseminated superficial actinic type, 616063
<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>SLC1A2</i>	100%	99,30%	100%	100%	Epileptic encephalopathy, early infantile, 41, 617105
<i>SLC1A3</i>	100%	99,90%	100%	100%	Episodic ataxia, type 6, 612656
<i>SLC1A4</i>	99,00%	95,80%	100%	100%	Spastic tetraplegia, thin corpus callosum, and progressive microcephaly, 616657
<i>SLC20A2</i>	100%	99,20%	100%	100%	Basal ganglia calcification, idiopathic, 1, 213600
<i>SLC22A12</i>	100%	99,80%	100%	100%	Hypouricemia, renal, 220150
<i>SLC22A18</i>	100%	98,10%	100%	100%	Lung cancer, somatic, 211980 Breast cancer, somatic, 114480 Rhabdomyosarcoma, somatic, 268210
<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>SLC25A11</i>	100%	100%	100%	100%	Paragangliomas 6, 618464
<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>SLC25A24</i>	99,40%	99,30%	99,80%	99,80%	Fontaine progeroid syndrome, 612289
<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>SLC25A32</i>	100%	100%	100%	100%	?Exercise intolerance, riboflavin-responsive, 616839
<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>SLC26A8</i>	100%	99,60%	100%	100%	Spermatogenic failure 3, 606766
<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>SLC30A2</i>	100%	99,00%	100%	100%	Zinc deficiency, transient neonatal, 608118
<i>SLC30A9</i>	98,80%	94,20%	100%	100%	?Birk-Landau-Perez syndrome, 617595
<i>SLC33A1</i>	99,90%	98,90%	100%	100%	Spastic paraparesia 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>SLC35A2</i>	99,90%	98,40%	100%	100%	Congenital disorder of glycosylation, type IIm, 300896
<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>SLC36A2</i>	100%	100%	100%	100%	Iminoglycinuria, digenic, 242600 Hyperglycinuria, 138500
<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>SLC39A5</i>	99,90%	99,00%	100%	100%	Myopia 24, autosomal dominant, 615946
<i>SLC39A8</i>	100%	99,70%	100%	100%	Congenital disorder of glycosylation, type IIn, 616721
<i>SLC3A1</i>	100%	99,80%	96,60%	96,60%	Cystinuria, 220100
<i>SLC40A1</i>	100%	99,50%	100%	100%	Hemochromatosis, type 4, 606069
<i>SLC44A4</i>	100%	99,50%	100%	100%	?Deafness, autosomal dominant 72, 617606
<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>SLC52A1</i>	100%	100%	100%	100%	Riboflavin deficiency, 615026

<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>SLC6A1</i>	100%	100%	100%	100%	Myoclonic-atonic epilepsy, 616421
<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>SLC6A2</i>	100%	99,90%	100%	100%	?Orthostatic intolerance, 604715
<i>SLC6A20</i>	100%	99,90%	100%	100%	Iminoglycinuria, digenic, 242600 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>SLC6A8</i>	93,50%	81,60%	100%	99,80%	Cerebral creatine deficiency syndrome 1, 300352
<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>SLC9A3R1</i>	100%	98,70%	100%	100%	Nephrolithiasis/osteoporosis, hypophosphatemic, 2, 612287
<i>SLC9A6</i>	99,30%	95,50%	100%	98,30%	Mental retardation, X-linked syndromic, Christianson type, 300243
<i>SLC9A7</i>	97,60%	90,30%	99,90%	99,50%	Intellectual developmental disorder, X-linked 108, 301024
<i>SLCO1B1</i>	99,20%	93,70%	100%	100%	Hyperbilirubinemia, Rotor type, digenic, 237450
<i>SLCO1B3</i>	98,80%	90,80%	100%	100%	Hyperbilirubinemia, Rotor type, digenic, 237450
<i>SLCO2A1</i>	100%	99,40%	100%	100%	Hypertrophic osteoarthropathy, primary, autosomal recessive 2, 614441
<i>SLFN14</i>	100%	100%	100%	100%	Bleeding disorder, platelet-type, 20, 616913
<i>SLTRK1</i>	100%	100%	100%	100%	?Trichotillomania, 613229 Tourette syndrome, 137580
<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>SMAD3</i>	99,90%	99,00%	100%	100%	Loeys-Dietz syndrome 3, 613795
<i>SMAD4</i>	100%	99,90%	100%	100%	Polyposis, juvenile intestinal, 174900 Myhre syndrome, 139210 Pancreatic cancer, somatic, 260350 Juvenile polyposis/hereditary hemorrhagic telangiectasia syndrome, 175050
<i>SMAD6</i>	90,90%	81,00%	100%	99,60%	Aortic valve disease 2, 614823
<i>SMAD9</i>	100%	99,90%	100%	100%	Pulmonary hypertension, primary, 2, 615342
<i>SMARCA2</i>	96,70%	96,20%	97,40%	96,80%	Nicolaides-Baraitser syndrome, 601358
<i>SMARCA4</i>	99,90%	99,00%	100%	100%	Coffin-Siris syndrome 4, 614609
<i>SMARCA1</i>	99,30%	95,80%	100%	100%	Huriez syndrome, 181600 Basan syndrome, 129200 Adermatoglyphia, 136000
<i>SMARCA11</i>	100%	99,90%	100%	100%	Schimke immunoosseous dysplasia, 242900
<i>SMARCB1</i>	100%	100%	100%	100%	Rhabdoid tumors, somatic, 609322 Coffin-Siris syndrome 3, 614608
<i>SMARCC2</i>	99,00%	96,60%	100%	100%	Coffin-Siris syndrome 8, 618362
<i>SMARCD2</i>	87,00%	85,90%	99,60%	97,00%	Specific granule deficiency 2, 617475
<i>SMARCE1</i>	96,10%	88,10%	100%	100%	Coffin-Siris syndrome 5, 616938
<i>SMC1A</i>	100%	98,70%	100%	99,80%	Cornelia de Lange syndrome 2, 300590 Epileptic encephalopathy, early infantile, 85, with or without midline brain defects, 301044
<i>SMC3</i>	95,20%	91,00%	100%	100%	Cornelia de Lange syndrome 3, 610759
<i>SMCHD1</i>	99,50%	96,30%	100%	100%	Fascioscapulohumeral muscular dystrophy 2, digenic, 158901 Bosma arhinia microphthalmia syndrome, 603457
<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>SMO</i>	97,80%	94,70%	100%	100%	Curry-Jones syndrome, somatic mosaic, 601707 Basal cell carcinoma, somatic, 605462
<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>SMPX</i>	100%	97,60%	100%	100%	Deafness, X-linked 4, 300066
<i>SMS</i>	91,50%	78,50%	100%	99,90%	Mental retardation, X-linked, Snyder-Robinson type, 309583

<i>SNAI2</i>	100%	99,10%	100%	100%	Waardenburg syndrome, type 2D, 608890 Piebaldism, 172800
<i>SNAP25</i>	100%	99,90%	100%	100%	?Myasthenic syndrome, congenital, 18, 616330
<i>SNAP29</i>	100%	100%	100%	100%	Cerebral dysgenesis, neuropathy, ichthyosis, and palmoplantar keratoderma syndrome, 609528
<i>SNCA</i>	100%	100%	100%	100%	Dementia, Lewy body, 127750 Parkinson disease 1, 168601 Parkinson disease 4, 605543
<i>SNCB</i>	100%	99,90%	100%	100%	Dementia, Lewy body, 127750
<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>SNRNP200</i>	99,90%	99,10%	100%	100%	Retinitis pigmentosa 33, 610359
<i>SNRPB</i>	100%	99,30%	100%	100%	Cerebrocostomandibular syndrome, 117650
<i>SNRPE</i>	99,50%	92,60%	100%	100%	Hypotrichosis 11, 615059
<i>SNRPN</i>	100%	97,00%	100%	100%	Prader-Willi syndrome, 176270
<i>SNTA1</i>	87,00%	78,80%	99,30%	97,20%	Long QT syndrome 12, 612955
<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>SOHLH1</i>	99,70%	96,50%	100%	100%	Ovarian dysgenesis 5, 617690 Spermatogenic failure 32, 618115
<i>SON</i>	98,80%	94,90%	100%	100%	ZTTK syndrome, 617140
<i>SOS1</i>	99,80%	98,40%	100%	100%	Noonan syndrome 4, 610733 ?Fibromatosis, gingival, 1, 135300
<i>SOS2</i>	100%	99,20%	100%	100%	Noonan syndrome 9, 616559
<i>SOST</i>	100%	99,50%	100%	100%	Sclerosteosis 1, 269500 Van Buchem disease, 239100 Craniodiaphyseal dysplasia, autosomal dominant, 122860
<i>SOX10</i>	99,90%	97,90%	100%	100%	Waardenburg syndrome, type 2E, with or without neurologic involvement, 611584 PCWH syndrome, 609136 Waardenburg syndrome, type 4C, 613266
<i>SOX11</i>	100%	100%	100%	100%	Coffin-Siris syndrome 9, 615866
<i>SOX17</i>	100%	99,50%	100%	100%	Vesicoureteral reflux 3, 613674
<i>SOX18</i>	70,70%	55,20%	96,10%	92,60%	Hypotrichosis-lymphedema-telangiectasia-renal defect syndrome, 137940 Hypotrichosis-lymphedema-telangiectasia syndrome, 607823
<i>SOX2</i>	100%	100%	100%	100%	Microphthalmia, syndromic 3, 206900 Optic nerve hypoplasia and abnormalities of the central nervous system, 206900

<i>SOX3</i>	91,40%	75,20%	100%	99,50%	Panhypopituitarism, X-linked, 312000 Mental retardation, X-linked, with isolated growth hormone deficiency, 300123
<i>SOX4</i>	97,30%	90,90%	99,90%	98,20%	Coffin-Siris syndrome 10, 618506
<i>SOX5</i>	99,90%	98,90%	100%	100%	Lamb-Shaffer syndrome, 616803
<i>SOX9</i>	100%	98,60%	100%	100%	Acampomelic campomelic dysplasia, 114290 Campomelic dysplasia, 114290 Campomelic dysplasia with autosomal sex reversal, 114290
<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>SPAST</i>	99,80%	98,70%	100%	100%	Spastic paraplegia 4, autosomal dominant, 182601
<i>SPATA16</i>	100%	99,50%	100%	100%	?Spermatogenic failure 6, 102530
<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
<i>SPECC1L</i>	100%	99,60%	100%	100%	Hypertelorism, Teebi type, 145420 ?Facial clefting, oblique, 1, 600251 Opitz GBBB syndrome, type II, 145410
<i>SPEG</i>	96,40%	89,50%	99,70%	99,70%	Centronuclear myopathy 5, 615959
<i>SPG11</i>	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
<i>SPG21</i>	99,40%	96,80%	100%	100%	Mast syndrome, 248900
<i>SPG7</i>	94,90%	92,60%	100%	100%	Spastic paraplegia 7, autosomal recessive, 607259
<i>SPINK1</i>	100%	99,30%	100%	100%	Pancreatitis, hereditary, 167800 Tropical calcific pancreatitis, 608189
<i>SPINK2</i>	99,30%	99,10%	99,30%	99,30%	?Spermatogenic failure 29, 618091
<i>SPINK5</i>	99,90%	99,50%	100%	100%	Netherton syndrome, 256500
<i>SPINT2</i>	98,50%	83,80%	100%	100%	Diarrhea 3, secretory sodium, congenital, syndromic, 270420
<i>SPNS2</i>	92,10%	89,30%	97,60%	95,70%	?Deafness, autosomal recessive 115, 618457
<i>SPR</i>	99,80%	96,30%	100%	100%	Dystonia, dopa-responsive, due to sepiapterin reductase deficiency, 612716
<i>SPRED1</i>	100%	98,90%	100%	100%	Legius syndrome, 611431
<i>SPRTN</i>	100%	100%	100%	100%	Ruijs-Aalfs syndrome, 616200
<i>SPRY4</i>	100%	100%	100%	100%	Hypogonadotropic hypogonadism 17 with or without anosmia, 615266

<i>SPTA1</i>	99,90%	99,20%	100%	100%	Pyropoikilocytosis, 266140 Elliptocytosis-2, 130600 Spherocytosis, type 3, 270970
<i>SPTAN1</i>	99,10%	98,60%	100%	100%	Epileptic encephalopathy, early infantile, 5, 613477
<i>SPTB</i>	100%	100%	100%	100%	Elliptocytosis-3, 617948 Spherocytosis, type 2, 616649 Anemia, neonatal hemolytic, fatal or near-fatal, 617948
<i>SPTBN2</i>	100%	99,30%	99,90%	99,90%	Spinocerebellar ataxia, autosomal recessive 14, 615386 Spinocerebellar ataxia 5, 600224
<i>SPTBN4</i>	97,30%	91,00%	100%	100%	Neurodevelopmental disorder with hypotonia, neuropathy, and deafness, 617519
<i>SPTLC1</i>	99,20%	95,40%	100%	100%	Neuropathy, hereditary sensory and autonomic, type IA, 162400
<i>SPTLC2</i>	100%	100%	100%	100%	Neuropathy, hereditary sensory and autonomic, type IC, 613640
<i>SQSTM1</i>	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
<i>SRC</i>	100%	99,80%	100%	100%	Colon cancer, advanced, somatic, 114500 ?Thrombocytopenia 6, 616937
<i>SRCAP</i>	99,40%	98,90%	100%	100%	Floating-Harbor syndrome, 136140
<i>SRD5A2</i>	99,90%	99,00%	100%	100%	Pseudovaginal perineoscrotal hypospadias, 264600
<i>SRD5A3</i>	99,90%	99,10%	100%	100%	Kahrizi syndrome, 612713 Congenital disorder of glycosylation, type Iq, 612379
<i>SRP72</i>	97,60%	89,70%	100%	100%	Bone marrow failure syndrome 1, 614675
<i>SRPX2</i>	99,80%	96,50%	100%	100%	?Rolandic epilepsy, mental retardation, and speech dyspraxia, 300643
<i>SRY</i>	50,00%	50,00%	60,00%	60,00%	46XY sex reversal 1, 400044
<i>SSR4</i>	100%	99,70%	100%	100%	Congenital disorder of glycosylation, type Iy, 300934
<i>SSTR5</i>	100%	99,90%	100%	100%	Somatostatin analog, resistance to, 0
<i>SSX1</i>	82,20%	82,00%	100%	100%	?Sarcoma, synovial, 300813
<i>SSX2</i>	65,30%	62,60%	100%	100%	?Sarcoma, synovial, 300813
<i>ST14</i>	99,90%	98,60%	100%	100%	Ichthyosis, congenital, autosomal recessive 11, 602400
<i>ST3GAL3</i>	100%	99,80%	100%	100%	Mental retardation, autosomal recessive 12, 611090 ?Epileptic encephalopathy, early infantile, 15, 615006
<i>ST3GAL5</i>	85,00%	84,20%	98,70%	98,40%	Salt and pepper developmental regression syndrome, 609056
<i>STAC3</i>	100%	100%	100%	100%	Myopathy, congenital, Baily-Bloch, 255995
<i>STAG1</i>	99,60%	97,30%	100%	100%	Mental retardation, autosomal dominant 47, 617635
<i>STAG2</i>	97,60%	89,40%	99,90%	98,70%	Mullegama-Klein-Martinez syndrome, 301022 Holoprosencephaly 13, X-linked, 301043
<i>STAG3</i>	93,50%	93,20%	100%	100%	Premature ovarian failure 8, 615723

<i>STAMB P</i>	100%	99,40%	100%	100%	Microcephaly-capillary malformation syndrome, 614261
<i>STAR</i>	100%	100%	100%	100%	Lipoid adrenal hyperplasia, 201710
<i>STARD7</i>	98,20%	93,10%	100%	100%	Epilepsy, familial adult myoclonic, 2, 607876
<i>STAT1</i>	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
<i>STAT2</i>	100%	99,90%	100%	100%	Immunodeficiency 44, 616636
<i>STAT3</i>	100%	99,80%	100%	100%	Hyper-IgE recurrent infection syndrome, 147060 Autoimmune disease, multisystem, infantile-onset, 1, 615952
<i>STAT5B</i>	100%	98,50%	100%	100%	Leukemia, acute promyelocytic, somatic, 102578 Growth hormone insensitivity with immunodeficiency, 245590
<i>STEAP3</i>	100%	99,70%	100%	100%	?Anemia, hypochromic microcytic, with iron overload 2, 615234
<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>STK11</i>	100%	99,30%	100%	100%	Testicular tumor, somatic, 273300 Peutz-Jeghers syndrome, 175200 Pancreatic cancer, somatic, 260350 Melanoma, malignant, somatic, 0
<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>STOX1</i>	89,60%	89,60%	97,70%	95,60%	Preeclampsia/eclampsia 4, 609404
<i>STR A6</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>STR C</i>	99,90%	98,00%	100%	100%	Deafness, autosomal recessive 16, 603720
<i>STS</i>	99,70%	98,10%	100%	99,90%	Ichthyosis, X-linked, 308100
<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>STX16</i>	100%	98,60%	100%	100%	Pseudohypoparathyroidism, type IB, 603233
<i>STX1B</i>	100%	100%	100%	100%	Generalized epilepsy with febrile seizures plus, type 9, 616172
<i>STXBP1</i>	96,80%	96,50%	100%	100%	Epileptic encephalopathy, early infantile, 4, 612164
<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>SUGCT</i>	99,90%	98,50%	100%	100%	Glutaric aciduria III, 231690
<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>SUMO1</i>	67,20%	49,90%	69,40%	69,40%	?Orofacial cleft 10, 613705
<i>SUN5</i>	100%	99,80%	100%	100%	Spermatogenic failure 16, 617187
<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>SYCE1</i>	100%	98,60%	100%	100%	?Premature ovarian failure 12, 616947 ?Spermatogenic failure 15, 616950
<i>SYCP3</i>	99,70%	98,20%	100%	100%	Spermatogenic failure 4, 270960 Pregnancy loss, recurrent, 4, 270960
<i>SYN1</i>	81,90%	73,20%	100%	99,60%	Epilepsy, X-linked, with variable learning disabilities and behavior disorders, 300491
<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>SYNE2</i>	99,70%	98,20%	100%	100%	Emery-Dreifuss muscular dystrophy 5, autosomal dominant, 612999
<i>SYNE4</i>	99,70%	97,00%	100%	100%	Deafness, autosomal recessive 76, 615540
<i>SYNGAP1</i>	99,40%	98,10%	100%	100%	Mental retardation, autosomal dominant 5, 612621
<i>SYNJ1</i>	99,90%	99,40%	100%	100%	Epileptic encephalopathy, early infantile, 53, 617389 Parkinson disease 20, early-onset, 615530
<i>SYP</i>	99,90%	96,70%	100%	100%	Mental retardation, X-linked 96, 300802
<i>SYT1</i>	99,80%	98,50%	100%	100%	Baker-Gordon syndrome, 618218
<i>SYT14</i>	61,90%	58,90%	95,90%	95,90%	?Spinocerebellar ataxia, autosomal recessive 11, 614229
<i>SYT2</i>	99,90%	99,00%	100%	100%	Myasthenic syndrome, congenital, 7, presynaptic, 616040
<i>SZT2</i>	99,60%	99,50%	100%	99,90%	Epileptic encephalopathy, early infantile, 18, 615476
<i>T</i>	99,40%	96,90%	100%	100%	Sacral agenesis with vertebral anomalies, 615709
<i>TBC1D24</i>	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
<i>TBC1D7</i>	100%	99,30%	100%	100%	Macrocephaly/megalencephaly syndrome, autosomal recessive, 248000
<i>TBC1D8B</i>	98,50%	93,20%	100%	100%	Nephrotic syndrome, type 20, 301028
<i>TBCD</i>	96,20%	94,40%	100%	100%	Encephalopathy, progressive, early-onset, with brain atrophy and thin corpus callosum, 617193
<i>TBCE</i>	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
<i>TBCK</i>	99,10%	96,80%	100%	100%	Hypotonia, infantile, with psychomotor retardation and characteristic facies 3, 616900
<i>TBK1</i>	99,70%	97,20%	100%	100%	Frontotemporal dementia and/or amyotrophic lateral sclerosis 4, 616439
<i>TBL1X</i>	97,50%	92,10%	100%	100%	Hypothyroidism, congenital, nongoitrous, 8, 301033
<i>TBL1XR1</i>	96,50%	84,90%	100%	100%	Pierpont syndrome, 602342 Mental retardation, autosomal dominant 41, 616944
<i>TBL1Y</i>	49,40%	45,30%	60,00%	59,90%	?Deafness, Y-linked 2, 400047
<i>TBP</i>	100%	99,90%	100%	100%	Spinocerebellar ataxia 17, 607136
<i>TBR1</i>	99,90%	97,90%	100%	100%	Intellectual developmental disorder with autism and speech delay, 606053
<i>TBX1</i>	86,90%	79,50%	94,10%	90,80%	Velocardiofacial syndrome, 192430 DiGeorge syndrome, 188400 Tetralogy of Fallot, 187500 Conotruncal anomaly face syndrome, 217095
<i>TBX15</i>	100%	99,90%	100%	100%	Cousin syndrome, 260660
<i>TBX18</i>	99,50%	97,10%	100%	100%	Congenital anomalies of kidney and urinary tract 2, 143400
<i>TBX19</i>	100%	100%	100%	100%	Adrenocorticotropic hormone deficiency, 201400
<i>TBX2</i>	99,90%	97,50%	99,00%	96,90%	Vertebral anomalies and variable endocrine and T-cell dysfunction, 618223
<i>TBX20</i>	100%	99,70%	100%	100%	Atrial septal defect 4, 611363
<i>TBX21</i>	95,40%	86,60%	100%	100%	Asthma and nasal polyps, 208550
<i>TBX22</i>	99,20%	95,70%	100%	100%	?Abruzzo-Erickson syndrome, 302905 Cleft palate with ankyloglossia, 303400
<i>TBX3</i>	99,20%	96,80%	100%	100%	Ulnar-mammary syndrome, 181450
<i>TBX4</i>	97,60%	95,10%	100%	100%	Amelia, posterior, with pelvic and pulmonary hypoplasia syndrome, 601360 Ischiocoxopodopatellar syndrome with or without pulmonary arterial hypertension, 147891
<i>TBX5</i>	100%	100%	100%	100%	Holt-Oram syndrome, 142900
<i>TBX6</i>	99,50%	95,40%	100%	100%	Spondylocostal dysostosis 5, 122600
<i>TBXAS1</i>	100%	100%	100%	100%	Ghosal hematodiaphyseal syndrome, 231095
<i>TCAP</i>	100%	100%	100%	100%	Cardiomyopathy, hypertrophic, 25, 607487 Muscular dystrophy, limb-girdle, autosomal recessive 7, 601954

<i>TCF12</i>	100%	99,90%	100%	100%	Craniosynostosis 3, 615314
<i>TCF20</i>	100%	100%	100%	100%	Developmental delay with variable intellectual impairment and behavioral abnormalities, 618430
<i>TCF3</i>	97,10%	94,00%	100%	100%	Agammaglobulinemia 8, autosomal dominant, 616941
<i>TCF4</i>	100%	99,80%	100%	100%	Corneal dystrophy, Fuchs endothelial, 3, 613267 Pitt-Hopkins syndrome, 610954
<i>TCHH</i>	100%	98,80%	100%	100%	?Uncombable hair syndrome 3, 617252
<i>TCIRG1</i>	97,60%	90,10%	100%	100%	Osteopetrosis, autosomal recessive 1, 259700
<i>TCN2</i>	100%	100%	100%	100%	Transcobalamin II deficiency, 275350
<i>TCOF1</i>	99,70%	98,60%	100%	100%	Treacher Collins syndrome 1, 154500
<i>TCTEX1D2</i>	100%	100%	100%	100%	Short-rib thoracic dysplasia 17 with or without polydactyly, 617405
<i>TCTN1</i>	96,70%	93,00%	94,70%	94,70%	Joubert syndrome 13, 614173
<i>TCTN2</i>	100%	99,50%	100%	100%	Joubert syndrome 24, 616654 ?Meckel syndrome 8, 613885
<i>TCTN3</i>	100%	100%	100%	100%	Orofaciodigital syndrome IV, 258860 Joubert syndrome 18, 614815
<i>TDGF1</i>	99,90%	96,70%	100%	100%	Forebrain defects, 0
<i>TDP1</i>	99,90%	99,50%	100%	100%	?Spinocerebellar ataxia, autosomal recessive, with axonal neuropathy 1, 607250
<i>TDP2</i>	100%	99,40%	100%	100%	Spinocerebellar ataxia, autosomal recessive 23, 616949
<i>TDRD7</i>	99,90%	99,10%	100%	100%	Cataract 36, 613887
<i>TDRD9</i>	99,30%	98,20%	100%	99,90%	?Spermatogenic failure 30, 618110
<i>TEAD1</i>	100%	99,90%	100%	100%	Sveinsson chorioretinal atrophy, 108985
<i>TECPR2</i>	100%	100%	100%	100%	Spastic paraplegia 49, autosomal recessive, 615031
<i>TECR</i>	100%	98,90%	100%	100%	Mental retardation, autosomal recessive 14, 614020
<i>TECRL</i>	96,30%	89,30%	100%	100%	Ventricular tachycardia, catecholaminergic polymorphic, 3, 614021
<i>TECTA</i>	100%	99,90%	100%	100%	Deafness, autosomal dominant 8/12, 601543 Deafness, autosomal recessive 21, 603629
<i>TEK</i>	100%	100%	100%	100%	Glaucoma 3, primary congenital, E, 617272 Venous malformations, multiple cutaneous and mucosal, 600195
<i>TELO2</i>	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>TENM4</i>	100%	99,60%	100%	100%	Essential tremor, hereditary, 5, 616736
<i>TERC</i>	NC	NC	NC	NC	Dyskeratosis congenita, autosomal dominant 1, 127550
<i>TET2</i>	100%	100%	100%	100%	Myelodysplastic syndrome, somatic, 614286
<i>TEX11</i>	93,80%	88,20%	97,10%	97,00%	Spermatogenic failure, X-linked, 2, 309120
<i>TEX14</i>	99,90%	98,90%	100%	100%	Spermatogenic failure 23, 617707
<i>TEX15</i>	100%	99,70%	100%	100%	Spermatogenic failure 25, 617960

<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>TFAP2A</i>	99,40%	94,30%	100%	100%	Branchiooculofacial syndrome, 113620
<i>TFAP2B</i>	99,90%	98,60%	100%	100%	Char syndrome, 169100 Patent ductus arteriosus 2, 617035
<i>TFE3</i>	99,30%	94,20%	100%	100%	Renal cell carcinoma, papillary, 1, 300854
<i>TFG</i>	96,90%	96,30%	100%	100%	?Spastic paraplegia 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>TGFB2</i>	100%	100%	100%	100%	Loeys-Dietz syndrome 4, 614816
<i>TGFB3</i>	100%	100%	100%	100%	Loeys-Dietz syndrome 5, 615582 Arrhythmogenic right ventricular dysplasia 1, 107970
<i>TGFBI</i>	99,50%	94,60%	100%	100%	Corneal dystrophy, lattice type IIIA, 608471 Corneal dystrophy, Groenouw type I, 121900 Corneal dystrophy, lattice type I, 122200 Corneal dystrophy, Reis-Bucklers type, 608470 Corneal dystrophy, Thiel-Behnke type, 602082 Corneal dystrophy, epithelial basement membrane, 121820 Corneal dystrophy, Avellino type, 607541
<i>TGFBR1</i>	93,70%	93,60%	99,00%	96,30%	Loeys-Dietz syndrome 1, 609192
<i>TGFBR2</i>	100%	100%	100%	100%	Esophageal cancer, somatic, 133239 Colorectal cancer, hereditary nonpolyposis, type 6, 614331 Loeys-Dietz syndrome 2, 610168
<i>TGIF1</i>	100%	100%	100%	100%	Holoprosencephaly 4, 142946
<i>TGM1</i>	100%	99,90%	100%	100%	Ichthyosis, congenital, autosomal recessive 1, 242300
<i>TGM3</i>	100%	99,70%	100%	100%	?Uncombable hair syndrome 2, 617251
<i>TGM5</i>	100%	99,70%	100%	100%	Peeling skin syndrome 2, 609796
<i>TGM6</i>	99,70%	97,30%	100%	100%	Spinocerebellar ataxia 35, 613908
<i>TH</i>	99,30%	96,10%	100%	100%	Segawa syndrome, recessive, 605407
<i>THAP1</i>	100%	100%	100%	100%	Dystonia 6, torsion, 602629
<i>THBD</i>	100%	99,70%	100%	100%	Thrombophilia due to thrombomodulin defect, 614486
<i>THOC2</i>	98,80%	93,70%	100%	100%	Mental retardation, X-linked 12/35, 300957
<i>THOC6</i>	100%	100%	100%	100%	Beaulieu-Boycott-Innes syndrome, 613680

<i>THPO</i>	100%	99,50%	100%	100%	Thrombocythemia 1, 187950
<i>THRA</i>	100%	99,60%	100%	100%	Hypothyroidism, congenital, nongoitrous, 6, 614450
<i>THRΒ</i>	100%	99,70%	100%	100%	Thyroid hormone resistance, 188570 Thyroid hormone resistance, selective pituitary, 145650 Thyroid hormone resistance, autosomal recessive, 274300
<i>TIA1</i>	99,70%	97,80%	100%	100%	Welander distal myopathy, 604454
<i>TIMM50</i>	98,30%	94,40%	100%	100%	3-methylglutaconic aciduria, type IX, 617698
<i>TIMM8A</i>	98,00%	90,10%	100%	100%	Mohr-Tranebjærg syndrome, 304700
<i>TIMMDC1</i>	100%	100%	100%	100%	Mitochondrial complex I deficiency, nuclear type 31, 618251
<i>TIMP3</i>	100%	100%	100%	100%	Sorsby fundus dystrophy, 136900
<i>TINF2</i>	100%	100%	100%	100%	Revesz syndrome, 268130 Dyskeratosis congenita, autosomal dominant 3, 613990
<i>TJP2</i>	94,00%	93,60%	100%	100%	Hypercholanemia, familial, 607748 Cholestasis, progressive familial intrahepatic 4, 615878
<i>TK2</i>	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>TLE6</i>	100%	98,80%	100%	100%	Preimplantation embryonic lethality, 616814
<i>TLK2</i>	99,10%	95,10%	100%	100%	Mental retardation, autosomal dominant 57, 618050
<i>TLL1</i>	100%	100%	100%	100%	Atrial septal defect 6, 613087
<i>TMC1</i>	99,70%	97,10%	100%	100%	Deafness, autosomal recessive 7, 600974 Deafness, autosomal dominant 36, 606705
<i>TMC6</i>	100%	99,30%	100%	100%	Epidermolytic hyperkeratosis, 226400
<i>TMC8</i>	100%	98,70%	100%	100%	Epidermolytic hyperkeratosis 2, 618231
<i>TMCO1</i>	88,00%	87,40%	88,00%	88,00%	Craniofacial dysmorphisms, skeletal anomalies, and mental retardation syndrome, 213980
<i>TMEM106B</i>	99,90%	98,80%	100%	100%	Leukodystrophy, hypomyelinating, 16, 617964
<i>TMEM107</i>	100%	100%	100%	100%	Orofaciodigital syndrome XVI, 617563 Meckel syndrome 13, 617562 ?Joubert syndrome 29, 617562
<i>TMEM126A</i>	96,30%	84,40%	100%	100%	Optic atrophy 7, 612989
<i>TMEM126B</i>	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>TMEM173</i>	99,70%	95,30%	100%	100%	STING-associated vasculopathy, infantile-onset, 615934
<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>TMEM240</i>	100%	100%	100%	100%	Spinocerebellar ataxia 21, 607454
<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>TMEM43</i>	99,90%	98,90%	100%	100%	Emery-Dreifuss muscular dystrophy 7, AD, 614302 Arrhythmogenic right ventricular dysplasia 5, 604400
<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>TMEM98</i>	99,30%	97,80%	100%	100%	Nanophthalmos 4, 615972
<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>TNC</i>	100%	99,80%	100%	100%	Deafness, autosomal dominant 56, 615629
<i>TNFAIP3</i>	100%	100%	100%	100%	Autoinflammatory syndrome, familial, Behcet-like, 616744
<i>TNFRSF10B</i>	100%	100%	100%	100%	Squamous cell carcinoma, head and neck, 275355
<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>TNFRSF1A</i>	90,60%	87,60%	92,80%	92,80%	Periodic fever, familial, 142680
<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>TNNC1</i>	100%	100%	100%	100%	Cardiomyopathy, hypertrophic, 13, 613243 Cardiomyopathy, dilated, 1Z, 611879
<i>TNNI2</i>	100%	99,70%	100%	100%	Arthrogryposis, distal, type 2B1, 601680
<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>TNNI3K</i>	100%	99,40%	100%	100%	Cardiac conduction disease with or without dilated cardiomyopathy, 616117
<i>TNNT1</i>	99,90%	97,60%	100%	100%	Nemaline myopathy 5, Amish type, 605355
<i>TNNT2</i>	100%	100%	100%	100%	Cardiomyopathy, familial restrictive, 3, 612422 Cardiomyopathy, hypertrophic, 2, 115195 Left ventricular noncompaction 6, 601494 Cardiomyopathy, dilated, 1D, 601494
<i>TNNT3</i>	100%	99,70%	100%	100%	Arthrogryposis, distal, type 2B2, 618435
<i>TNPO3</i>	100%	99,90%	100%	100%	Muscular dystrophy, limb-girdle, autosomal dominant 2, 608423
<i>TNRC6A</i>	99,90%	99,30%	100%	100%	?Epilepsy, familial adult myoclonic, 6, 618074
<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>TOP1</i>	99,90%	98,60%	100%	100%	DNA topoisomerase I, camptothecin-resistant, 0
<i>TOP2A</i>	100%	99,30%	100%	100%	DNA topoisomerase II, resistance to inhibition of, by amsacrine, 0
<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>TOPORS</i>	100%	100%	100%	100%	Retinitis pigmentosa 31, 609923
<i>TOR1A</i>	100%	99,90%	100%	100%	Dystonia-1, torsion, 128100
<i>TOR1AIP1</i>	99,90%	98,00%	100%	100%	?Muscular dystrophy, autosomal recessive, with rigid spine and distal joint contractures, 617072
<i>TP53</i>	99,90%	97,70%	91,70%	91,70%	Breast cancer, somatic, 114480 Li-Fraumeni syndrome, 151623 Pancreatic cancer, somatic, 260350 Bone marrow failure syndrome 5, 618165 Nasopharyngeal carcinoma, somatic, 607107 Hepatocellular carcinoma, somatic, 114550
<i>TP53RK</i>	92,50%	79,60%	100%	100%	Galloway-Mowat syndrome 4, 617730
<i>TP63</i>	100%	100%	100%	100%	Limb-mammary syndrome, 603543 Orofacial cleft 8, 618149 Split-hand/foot malformation 4, 605289 Hay-Wells syndrome, 106260

					Ectrodactyly, ectodermal dysplasia, and cleft lip/palate syndrome 3, 604292 Rapp-Hodgkin syndrome, 129400 ADULT syndrome, 103285
<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>TPM1</i>	100%	99,40%	100%	99,90%	Left ventricular noncompaction 9, 611878 Cardiomyopathy, hypertrophic, 3, 115196 Cardiomyopathy, dilated, 1Y, 611878
<i>TPM2</i>	100%	100%	84,00%	83,70%	Nemaline myopathy 4, autosomal dominant, 609285 Arthrogryposis, distal, type 2B4, 108120 Arthrogryposis, distal, type 1A, 108120 CAP myopathy 2, 609285
<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 lipofuscinoses, 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>TRAF3IP2</i>	100%	99,30%	100%	100%	?Candidiasis, familial, 8, 615527
<i>TRAF7</i>	100%	99,80%	100%	100%	Cardiac, facial, and digital anomalies with developmental delay, 618164
<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 C2</i>	89,70%	69,60%	100%	100%	Spondyloepiphyseal dysplasia tarda, 313400
<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>TREH</i>	96,90%	92,10%	100%	100%	Trehalase deficiency, 612119
<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>TRHR</i>	100%	99,20%	100%	100%	Hypothyroidism, congenital, nongoitrous, 7, 618573
<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%	Mulibrey nanism, 253250
<i>TRIM44</i>	99,80%	96,30%	100%	100%	?Aniridia 3, 617142
<i>TRIO</i>	99,20%	97,50%	99,30%	98,40%	Intellectual developmental disorder, autosomal dominant 44, with microcephaly, 617061 Intellectual developmental disorder, autosomal dominant 63, with macrocephaly, 618825
<i>TRIOBP</i>	97,80%	96,10%	99,90%	99,60%	Deafness, autosomal recessive 28, 609823
<i>TRIP11</i>	98,40%	94,00%	100%	100%	Osteochondrodysplasia, 184260 Achondrogenesis, type IA, 200600
<i>TRIP12</i>	99,90%	99,20%	100%	100%	Mental retardation, autosomal dominant 49, 617752
<i>TRIP13</i>	100%	100%	100%	100%	Mosaic variegated aneuploidy syndrome 3, 617598
<i>TRIP4</i>	100%	99,10%	100%	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%	100%	Sideroblastic anemia with B-cell immunodeficiency, periodic fevers, and developmental delay, 616084 Retinitis pigmentosa and erythrocytic microcytosis, 616959
<i>TRPA1</i>	96,10%	89,80%	100%	100%	?Episodic pain syndrome, familial, 1, 615040
<i>TRPC3</i>	99,70%	98,00%	100%	100%	?Spinocerebellar ataxia 41, 616410
<i>TRPC6</i>	98,20%	96,10%	100%	100%	Glomerulosclerosis, focal segmental, 2, 603965
<i>TRPM1</i>	100%	99,80%	100%	100%	Night blindness, congenital stationary (complete), 1C, autosomal recessive, 613216
<i>TRPM4</i>	100%	99,50%	100%	100%	Erythrokeratoderma variabilis et progressiva 6, 618531 Progressive familial heart block, type IB, 604559
<i>TRPM6</i>	99,90%	99,50%	100%	100%	Hypomagnesemia 1, intestinal, 602014
<i>TRPS1</i>	100%	99,90%	100%	100%	Trichorhinophalangeal syndrome, type I, 190350 Trichorhinophalangeal syndrome, type III, 190351
<i>TRPV3</i>	99,80%	98,50%	97,10%	97,10%	?Palmoplantar keratoderma, nonepidermolytic, focal 2, 616400 Olmsted syndrome, 614594
<i>TRPV4</i>	100%	99,90%	100%	100%	Spondylometaphyseal dysplasia, Kozlowski type, 184252 Parastremmatic dwarfism, 168400

					SED, Maroteaux type, 184095 Neuronopathy, distal hereditary motor, type VIII, 600175 Scapuloperoneal spinal muscular atrophy, 181405 Metatropic dysplasia, 156530 Digital arthropathy-brachydactyly, familial, 606835 Hereditary motor and sensory neuropathy, type IIc, 606071 Brachyolmia type 3, 113500 ?Avascular necrosis of femoral head, primary, 2, 617383
<i>TRPV6</i>	100%	99,50%	99,90%	98,90%	Hyperparathyroidism, transient neonatal, 618188
<i>TRRAP</i>	99,90%	99,50%	100%	100%	Developmental delay with or without dysmorphic facies and autism, 618454 ?Deafness, autosomal dominant 75, 618778
<i>TSC1</i>	99,80%	98,70%	100%	100%	Tuberous sclerosis-1, 191100 Focal cortical dysplasia, type II, somatic, 607341 Lymphangioleiomyomatosis, 606690
<i>TSC2</i>	100%	99,60%	100%	100%	Tuberous sclerosis-2, 613254 ?Focal cortical dysplasia, type II, somatic, 607341 Lymphangioleiomyomatosis, somatic, 606690
<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>TSGA10</i>	99,90%	99,10%	100%	100%	?Spermatogenic failure 26, 617961
<i>TSHB</i>	100%	100%	100%	100%	Hypothyroidism, congenital, nongoitrous 4, 275100
<i>TSHR</i>	99,90%	99,30%	100%	100%	Hyperthyroidism, nonautoimmune, 609152 Hypothyroidism, congenital, nongoitrous, 1, 275200 Hyperthyroidism, familial gestational, 603373 Thyroid adenoma, hyperfunctioning, somatic, 0 Thyroid carcinoma with thyrotoxicosis, 0
<i>TSHZ1</i>	98,80%	98,80%	100%	100%	Aural atresia, congenital, 607842
<i>TSPAN12</i>	100%	99,80%	100%	100%	Exudative vitreoretinopathy 5, 613310
<i>TSPAN7</i>	100%	100%	100%	100%	Mental retardation, X-linked 58, 300210
<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>TSR2</i>	100%	100%	100%	99,90%	?Diamond-Blackfan anemia 14 with mandibulofacial dysostosis, 300946

<i>TTBK2</i>	99,80%	97,60%	100%	100%	Spinocerebellar ataxia 11, 604432
<i>TTC19</i>	81,50%	73,80%	100%	99,20%	Mitochondrial complex III deficiency, nuclear type 2, 615157
<i>TTC21A</i>	100%	100%	100%	100%	Spermatogenic failure 37, 618429
<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>TTN</i>	98,60%	98,10%	100%	100%	Cardiomyopathy, dilated, 1G, 604145 Tibial muscular dystrophy, tardive, 600334 Salih myopathy, 611705 Cardiomyopathy, familial hypertrophic, 9, 613765 Myopathy, myofibrillar, 9, with early respiratory failure, 603689 Muscular dystrophy, limb-girdle, autosomal recessive 10, 608807
<i>TPPA</i>	94,70%	87,10%	100%	100%	Ataxia with isolated vitamin E deficiency, 277460
<i>TTR</i>	94,60%	94,60%	94,60%	94,60%	Amyloidosis, hereditary, transthyretin-related, 105210 Carpal tunnel syndrome, familial, 115430
<i>TUB</i>	99,40%	97,10%	100%	100%	?Retinal dystrophy and obesity, 616188
<i>TUBA1A</i>	99,90%	97,00%	100%	100%	Lissencephaly 3, 611603
<i>TUBA3D</i>	100%	99,20%	100%	100%	Keratoconus 9, 617928
<i>TUBA4A</i>	100%	100%	100%	100%	Amyotrophic lateral sclerosis 22 with or without frontotemporal dementia, 616208
<i>TUBA8</i>	99,90%	99,50%	100%	100%	Cortical dysplasia, complex, with other brain malformations 8, 613180
<i>TUBB</i>	97,30%	93,90%	99,80%	99,80%	Symmetric circumferential skin creases, congenital, 1, 156610 Cortical dysplasia, complex, with other brain malformations 6, 615771
<i>TUBB1</i>	100%	100%	100%	100%	Macrothrombocytopenia, autosomal dominant, TUBB1-related, 613112
<i>TUBB2A</i>	97,00%	95,70%	100%	100%	Cortical dysplasia, complex, with other brain malformations 5, 615763
<i>TUBB2B</i>	100%	99,50%	100%	100%	Cortical dysplasia, complex, with other brain malformations 7, 610031
<i>TUBB3</i>	98,30%	96,90%	100%	100%	Fibrosis of extraocular muscles, congenital, 3A, 600638 Cortical dysplasia, complex, with other brain malformations 1, 614039
<i>TUBB4A</i>	95,90%	94,00%	97,10%	96,00%	Leukodystrophy, hypomyelinating, 6, 612438 Dystonia 4, torsion, autosomal dominant, 128101
<i>TUBB4B</i>	99,90%	96,90%	100%	100%	Leber congenital amaurosis with early-onset deafness, 617879
<i>TUBB6</i>	90,60%	90,10%	100%	100%	?Facial palsy, congenital, with ptosis and velopharyngeal dysfunction, 617732

<i>TUBB8</i>	83,00%	55,30%	100%	100%	Oocyte maturation defect 2, 616780
<i>TUBG1</i>	100%	100%	100%	100%	Cortical dysplasia, complex, with other brain malformations 4, 615412
<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>TWIST1</i>	100%	98,90%	97,20%	92,30%	Robinow-Sorauf syndrome, 180750 Craniosynostosis 1, 123100 Sweeney-Cox syndrome, 617746 Saethre-Chotzen syndrome with or without eyelid anomalies, 101400
<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>TXNRD2</i>	96,80%	95,90%	100%	100%	?Glucocorticoid deficiency 5, 617825
<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>UBA1</i>	99,40%	98,20%	99,80%	99,00%	Spinal muscular atrophy, X-linked 2, infantile, 301830
<i>UBA5</i>	97,80%	86,80%	100%	100%	?Spinocerebellar ataxia, autosomal recessive 24, 617133 Epileptic encephalopathy, early infantile, 44, 617132
<i>UBAP1</i>	98,80%	93,40%	100%	100%	Spastic paraparesis 80, autosomal dominant, 618418
<i>UBE2A</i>	99,70%	96,00%	100%	99,70%	Mental retardation, X-linked syndromic, Nascentio-type, 300860
<i>UBE2T</i>	100%	99,90%	100%	100%	Fanconi anemia, complementation group T, 616435
<i>UBE3A</i>	99,10%	94,80%	100%	100%	Angelman syndrome, 105830
<i>UBE3B</i>	100%	99,90%	100%	100%	Kaufman oculocerebrofacial syndrome, 244450
<i>UBIAD1</i>	99,50%	96,00%	100%	100%	Corneal dystrophy, Schnyder type, 121800

<i>UBQLN2</i>	100%	99,40%	100%	100%	Amyotrophic lateral sclerosis 15, with or without frontotemporal dementia, 300857
<i>UBR1</i>	99,90%	99,10%	98,00%	98,00%	Johanson-Blizzard syndrome, 243800
<i>UBTF</i>	100%	99,40%	100%	100%	Neurodegeneration, childhood-onset, with brain atrophy, 617672
<i>UCHL1</i>	99,80%	92,50%	100%	100%	Spastic paraparesis 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>UFSP2</i>	100%	99,60%	100%	100%	?Spondyloepimetaphyseal dysplasia, Di Rocco type, 617974 ?Hip dysplasia, Beukes type, 142669
<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>UMOD</i>	97,70%	96,20%	100%	100%	Glomerulocystic kidney disease with hyperuricemia and isosthenuria, 609886 Medullary cystic kidney disease 2, 603860 Hyperuricemic nephropathy, familial juvenile 1, 162000
<i>UMPS</i>	100%	99,40%	97,00%	97,00%	Orotic aciduria, 258900
<i>UNC119</i>	100%	99,70%	100%	100%	?Immunodeficiency 13, 615518 ?Cone-rod dystrophy, 0
<i>UNC13D</i>	99,70%	98,10%	100%	100%	Hemophagocytic lymphohistiocytosis, familial, 3, 608898
<i>UNC45B</i>	99,30%	98,00%	100%	100%	?Cataract 43, 616279
<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>UPF3B</i>	92,20%	84,10%	100%	100%	Mental retardation, X-linked, syndromic 14, 300676
<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>UQCRCB</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>USP27X</i>	100%	100%	100%	100%	Mental retardation, X-linked 105, 300984
<i>USP45</i>	99,60%	98,10%	100%	100%	?Leber congenital amaurosis 19, 618513
<i>USP8</i>	96,90%	87,80%	100%	100%	Pituitary adenoma 4, ACTH-secreting, somatic, 219090
<i>USP9X</i>	98,20%	92,90%	100%	100%	Mental retardation, X-linked 99, 300919 Mental retardation, X-linked 99, syndromic, female-restricted, 300968
<i>USP9Y</i>	48,60%	43,20%	60,00%	60,00%	Spermatogenic failure, Y-linked, 2, 415000
<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>VANGL1</i>	100%	100%	100%	100%	Caudal regression syndrome, 600145
<i>VANGL2</i>	99,90%	99,00%	100%	100%	Neural tube defects, 182940
<i>VAPB</i>	100%	99,90%	100%	100%	Spinal muscular atrophy, late-onset, Finkel type, 182980 Amyotrophic lateral sclerosis 8, 608627
<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>VCAN</i>	100%	100%	100%	100%	Wagner syndrome 1, 143200
<i>VCL</i>	99,90%	99,00%	100%	100%	Cardiomyopathy, dilated, 1W, 611407 Cardiomyopathy, hypertrophic, 15, 613255
<i>VCP</i>	100%	99,20%	100%	100%	Inclusion body myopathy with early-onset Paget disease and frontotemporal dementia 1, 167320 Charcot-Marie-Tooth disease, type 2Y, 616687 Amyotrophic lateral sclerosis 14, with or without frontotemporal dementia, 613954
<i>VDR</i>	99,90%	99,00%	100%	100%	Rickets, vitamin D-resistant, type IIA, 277440
<i>VEGFC</i>	100%	100%	100%	100%	Lymphatic malformation 4, 615907
<i>VHL</i>	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
<i>VIM</i>	99,30%	97,00%	100%	100%	Cataract 30, pulverulent, 116300
<i>VIPAS39</i>	100%	100%	100%	100%	Arthrogryposis, renal dysfunction, and cholestasis 2, 613404
<i>VKORC1</i>	100%	100%	93,00%	93,00%	Warfarin resistance, 122700 Vitamin K-dependent clotting factors, combined deficiency of, 2, 607473
<i>VLDLR</i>	100%	99,80%	100%	100%	Cerebellar hypoplasia and mental retardation with or without quadrupedal locomotion 1, 224050

VMA21	99,00%	94,60%	100%	98,60%	Myopathy, X-linked, with excessive autophagy, 310440
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%	Mucopolysaccharidosis-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
VSX1	84,70%	80,50%	100%	100%	Keratoconus 1, 148300 ?Craniofacial anomalies and anterior segment dysgenesis syndrome, 614195
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
WAC	100%	99,70%	100%	100%	Desanto-Shinawi syndrome, 616708
WARS	99,80%	98,30%	100%	100%	Neuronopathy, distal hereditary motor, type IX, 617721
WARS2	100%	99,40%	100%	100%	Neurodevelopmental disorder, mitochondrial, with abnormal movements and lactic acidosis, with or without seizures, 617710
WAS	95,90%	85,30%	100%	99,80%	Thrombocytopenia, X-linked, intermittent, 313900 Thrombocytopenia, X-linked, 313900 Wiskott-Aldrich syndrome, 301000 Neutropenia, severe congenital, X-linked, 300299
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
WDFY3	100%	99,60%	100%	100%	?Microcephaly 18, primary, autosomal dominant, 617520
WDPCP	98,20%	94,40%	98,10%	98,10%	?Bardet-Biedl syndrome 15, 615992 ?Congenital heart defects, hamartomas of tongue, and polysyndactyly, 217085
WDR11	98,00%	96,50%	100%	100%	Hypogonadotropic hypogonadism 14 with or without anosmia, 614858

<i>WDR19</i>	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>WDR26</i>	99,00%	96,60%	100%	100%	Skraban-Deardorff syndrome, 617616
<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>WDR36</i>	99,70%	97,60%	100%	100%	Glaucoma 1, open angle, G, 609887
<i>WDR37</i>	100%	99,60%	100%	100%	Neurooculocardiogenitourinary syndrome, 618652
<i>WDR4</i>	100%	100%	100%	100%	Microcephaly, growth deficiency, seizures, and brain malformations, 618346 Galloway-Mowat syndrome 6, 618347
<i>WDR45</i>	96,40%	89,70%	100%	100%	Neurodegeneration with brain iron accumulation 5, 300894
<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>WDR66</i>	100%	100%	100%	100%	Spermatogenic failure 33, 618152
<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>WNK4</i>	99,90%	99,30%	100%	100%	Pseudohypoaldosteronism, type IIB, 614491
<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>WNT2B</i>	98,00%	91,30%	100%	100%	Diarrhea 9, 618168
<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>WNT5A</i>	100%	100%	100%	100%	Robinow syndrome, autosomal dominant 1, 180700
<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>WT1</i>	99,90%	98,30%	100%	100%	Mesothelioma, somatic, 156240 Wilms tumor, type 1, 194070 Frasier syndrome, 136680 Denys-Drash syndrome, 194080 Meacham syndrome, 608978 Nephrotic syndrome, type 4, 256370
<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>XIAP</i>	93,00%	88,80%	100%	100%	Lymphoproliferative syndrome, X-linked, 2, 300635
<i>XIST</i>	NC	NC	NC	NC	X-inactivation, familial skewed, 300087
<i>XK</i>	99,80%	98,10%	100%	100%	McLeod syndrome with or without chronic granulomatous disease, 300842
<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>XPR1</i>	100%	99,90%	100%	100%	Basal ganglia calcification, idiopathic, 6, 616413
<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>YAP1</i>	96,40%	89,40%	100%	100%	Coloboma, ocular, with or without hearing impairment, cleft lip/palate, and/or mental retardation, 120433
<i>YARS</i>	100%	99,90%	100%	100%	Charcot-Marie-Tooth disease, dominant intermediate C, 608323

<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>YWHAG</i>	100%	100%	100%	100%	Epileptic encephalopathy, early infantile, 56, 617665
<i>YY1</i>	100%	99,80%	100%	100%	Gabriele-de Vries syndrome, 617557
<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>ZBTB18</i>	100%	99,90%	100%	99,80%	Mental retardation, autosomal dominant 22, 612337
<i>ZBTB20</i>	100%	100%	100%	100%	?PriNTELLECTUAL DISABILITYose syndrome, 259050
<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>ZC4H2</i>	100%	99,00%	100%	100%	Wieacker-Wolff syndrome, 314580 Wieacker-Wolff syndrome, female-restricted, 301041
<i>ZDHHC9</i>	99,90%	93,80%	100%	100%	Mental retardation, X-linked syndromic, Raymond type, 300799
<i>ZEB1</i>	100%	99,40%	100%	100%	Corneal dystrophy, posterior polymorphous, 3, 609141 Corneal dystrophy, Fuchs endothelial, 6, 613270
<i>ZEB2</i>	99,90%	99,10%	97,40%	97,40%	Mowat-Wilson syndrome, 235730
<i>ZFHX2</i>	100%	99,60%	100%	100%	?Marsili syndrome, 147430
<i>ZFHX3</i>	100%	99,60%	100%	100%	Prostate cancer, somatic, 176807
<i>ZFP57</i>	100%	99,80%	100%	100%	Diabetes mellitus, transient neonatal, 1, 601410
<i>ZFPM2</i>	100%	100%	100%	100%	46XY sex reversal 9, 616067 Diaphragmatic hernia 3, 610187 Tetralogy of Fallot, 187500
<i>ZFYVE26</i>	100%	99,10%	100%	100%	Spastic paraplegia 15, autosomal recessive, 270700
<i>ZFYVE27</i>	100%	100%	100%	100%	Spastic paraplegia 33, autosomal dominant, 610244
<i>ZIC1</i>	100%	100%	100%	100%	Structural brain anomalies with impaired intellectual development and craniosynostosis, 618736 ?Craniosynostosis 6, 616602
<i>ZIC2</i>	100%	98,70%	98,50%	95,70%	Holoprosencephaly 5, 609637
<i>ZIC3</i>	100%	99,90%	100%	100%	Congenital heart defects, nonsyndromic, 1, X-linked, 306955 Heterotaxy, visceral, 1, X-linked, 306955 VACTERL association, X-linked, 314390
<i>ZMPSTE24</i>	100%	99,90%	100%	100%	Restrictive dermopathy, lethal, 275210 Mandibuloacral dysplasia with type B lipodystrophy, 608612

ZMYND10	100%	100%	100%	100%	Ciliary dyskinesia, primary, 22, 615444
ZMYND11	100%	99,60%	100%	100%	Mental retardation, autosomal dominant 30, 616083
ZMYND15	100%	99,40%	100%	100%	?Spermatogenic failure 14, 615842
ZNF141	100%	100%	100%	100%	?Polydactyly, postaxial, type A6, 615226
ZNF142	100%	99,90%	100%	100%	Neurodevelopmental disorder with impaired speech and hyperkinetic movements, 618425
ZNF148	99,90%	99,60%	100%	100%	Global developmental delay, absent or hypoplastic corpus callosum, and dysmorphic facies, 617260
ZNF335	100%	99,90%	100%	100%	Microcephaly 10, primary, autosomal recessive, 615095
ZNF341	97,20%	95,00%	100%	100%	Hyper-IgE recurrent infection syndrome 3, autosomal recessive, 618282
ZNF408	100%	100%	100%	100%	?Exudative vitreoretinopathy 6, 616468 Retinitis pigmentosa 72, 616469
ZNF423	100%	100%	100%	100%	Nephronophthisis 14, 614844 Joubert syndrome 19, 614844
ZNF462	100%	99,90%	100%	100%	Weiss-Kruszka syndrome, 618619
ZNF469	100%	100%	100%	100%	Brittle cornea syndrome 1, 229200
ZNF513	100%	100%	100%	100%	?Retinitis pigmentosa 58, 613617
ZNF644	100%	100%	100%	100%	Myopia 21, autosomal dominant, 614167
ZNF687	100%	100%	100%	100%	Paget disease of bone 6, 616833
ZNF711	99,80%	98,20%	100%	100%	Mental retardation, X-linked 97, 300803
ZNF750	100%	100%	100%	100%	Seborrhea-like dermatitis with psoriasiform elements, 610227
ZNHIT3	74,40%	74,40%	74,60%	74,40%	PEHO syndrome, 260565
ZP1	100%	100%	100%	100%	Oocyte maturation defect 1, 615774
ZP2	99,80%	98,40%	100%	100%	Oocyte maturation defect 6, 618353
ZP3	100%	100%	100%	100%	Oocyte maturation defect 3, 617712
ZSWIM6	95,50%	91,90%	94,90%	92,10%	Acromelic frontonasal dysostosis, 603671 Neurodevelopmental disorder with movement abnormalities, abnormal gait, and autistic features, 617865

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

