

SKIN DISORDERS GENE PANEL DG 2.18 (622 genes)

Releasedate: 20-04-2020

Gene	Agilent V5 covered >10x	Agilent V5 covered > 20x	TWIST covered >10x	TWIST covered >20x	Associated Phenotype description and OMIM disease ID
AAAS	100%	99,90%	100%	100%	Achalasia-addisonianism-alacrimia syndrome, 231550
AAGAB	100%	99,20%	100%	100%	Keratoderma, palmoplantar, punctate type IA, 148600
ABCA12	99,50%	98,70%	100%	100%	Ichthyosis, congenital, autosomal recessive 4B (harlequin), 242500 Ichthyosis, congenital, autosomal recessive 4A, 601277
ABCB6	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
ABCC6	93,60%	92,40%	100%	100%	Pseudoxanthoma elasticum, 264800 Pseudoxanthoma elasticum, forme fruste, 177850 Arterial calcification, generalized, of infancy, 2, 614473
ABCC9	100%	99,90%	100%	100%	Hypertrichotic osteochondrodysplasia, 239850 ?Atrial fibrillation, familial, 12, 614050 Cardiomyopathy, dilated, 10, 608569
ABHD5	100%	100%	100%	100%	Chanarin-Dorfman syndrome, 275630
ACD	100%	99,90%	100%	100%	?Dyskeratosis congenita, autosomal dominant 6, 616553 ?Dyskeratosis congenita, autosomal recessive 7, 616553
ACTA2	100%	99,00%	100%	100%	Aortic aneurysm, familial thoracic 6, 611788 Multisystemic smooth muscle dysfunction syndrome, 613834 Moyamoya disease 5, 614042
ACTB	99,70%	96,10%	100%	100%	?Dystonia, juvenile-onset, 607371 Baraitser-Winter syndrome 1, 243310
ACVRL1	100%	98,90%	100%	100%	Telangiectasia, hereditary hemorrhagic, type 2, 600376
ADA2	100%	99,00%	100%	100%	?Sneddon syndrome, 182410 Vasculitis, autoinflammation, immunodeficiency, and hematologic defects syndrome, 615688
ADAM10	94,80%	93,90%	100%	100%	Reticulate acropigmentation of Kitamura, 615537
ADAM17	99,90%	99,00%	100%	100%	?Inflammatory skin and bowel disease, neonatal, 1, 614328
ADAMTS10	99,90%	98,50%	100%	100%	Weill-Marchesani syndrome 1, recessive, 277600
ADAMTS17	92,80%	89,00%	97,60%	95,80%	Weill-Marchesani 4 syndrome, recessive, 613195
ADAMTS2	99,00%	96,60%	98,00%	97,80%	Ehlers-Danlos syndrome, dermatosparaxis type, 225410
ADAMTS3	100%	100%	100%	100%	Hennekam lymphangiectasia-lymphedema syndrome 3, 618154

ADAMTSL2	97,10%	93,30%	99,80%	99,40%	Geleophysic dysplasia 1, 231050
ADAR	100%	99,80%	100%	100%	Aicardi-Goutieres syndrome 6, 615010 Dyschromatosis symmetrica hereditaria, 127400
AGA	100%	100%	100%	100%	Aspartylglucosaminuria, 208400
AGPAT2	99,60%	96,10%	100%	100%	Lipodystrophy, congenital generalized, type 1, 608594
AIRE	100%	99,80%	100%	100%	Autoimmune polyendocrinopathy syndrome , type I, with or without reversible metaphyseal dysplasia, 240300
AKT1	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
AKT3	98,70%	94,50%	100%	100%	Megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome 2, 615937
ALAD	99,30%	94,10%	100%	100%	Porphyria, acute hepatic, 612740
ALAS2	98,90%	94,90%	100%	100%	Protoporphyrinemia, erythropoietic, X-linked, 300752 Anemia, sideroblastic, 1, 300751
ALDH18A1	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
ALDH3A2	95,30%	94,60%	100%	100%	Sjogren-Larsson syndrome, 270200
ALDOB	100%	99,10%	100%	100%	Fructose intolerance, hereditary, 229600
ALOX12B	100%	100%	100%	100%	Ichthyosis, congenital, autosomal recessive 2, 242100
ALOXE3	100%	99,50%	100%	100%	Ichthyosis, congenital, autosomal recessive 3, 606545
ALPL	100%	100%	100%	100%	Hypophosphatasia, adult, 146300 Odontohypophosphatasia, 146300 Hypophosphatasia, childhood, 241510 Hypophosphatasia, infantile, 241500
ALX4	100%	99,30%	100%	100%	Frontonasal dysplasia 2, 613451 Parietal foramina 2, 609597
AMELX	99,90%	96,80%	100%	100%	Amelogenesis imperfecta, type 1E, 301200
ANKRD11	97,50%	94,80%	100%	100%	KBG syndrome, 148050
ANOS1	89,80%	88,90%	99,90%	99,40%	Hypogonadotropic hypogonadism 1 with or without anosmia (Kallmann syndrome 1), 308700
ANTXR1	99,70%	97,90%	100%	100%	GAPO syndrome, 230740
ANTXR2	100%	98,20%	100%	100%	Hyaline fibromatosis syndrome, 228600
AP1B1	100%	99,50%	100%	100%	Keratitichthyosis-deafness syndrome, autosomal recessive, 242150
AP1S3	90,40%	90,10%	90,50%	90,50%	No OMIM disease ID
AP3B1	99,20%	95,80%	100%	100%	Hermansky-Pudlak syndrome 2, 608233

APC	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
APCDD1	100%	99,80%	100%	100%	Hypotrichosis 1, 605389
AQP5	100%	97,00%	100%	100%	Palmoplantar keratoderma, Bothnian type, 600231
ARHGAP31	99,90%	98,80%	100%	100%	Adams-Oliver syndrome 1, 100300
ARID1A	98,10%	96,40%	100%	100%	Coffin-Siris syndrome 2, 614607
ARID1B	99,50%	98,60%	99,90%	99,20%	Coffin-Siris syndrome 1, 135900
ASIP	100%	100%	100%	100%	No OMIM disease ID
ASL	100%	99,60%	100%	100%	Argininosuccinic aciduria, 207900
ASXL1	100%	99,50%	99,90%	99,90%	Bohring-Opitz syndrome, 605039 Myelodysplastic syndrome, somatic, 614286
ASXL3	99,90%	99,70%	100%	100%	Bainbridge-Ropers syndrome, 615485
ATIC	99,90%	99,30%	100%	100%	AICA-ribosiduria due to ATIC deficiency, 608688
ATP2A2	100%	100%	100%	100%	Acrokeratosis verruciformis, 101900 Darier disease, 124200
ATP2C1	100%	99,60%	100%	100%	Hailey-Hailey disease, 169600
ATP6VOA2	100%	99,50%	100%	100%	Wrinkly skin syndrome, 278250 Cutis laxa, autosomal recessive, type IIA, 219200
ATP7A	99,70%	97,50%	100%	100%	Occipital horn syndrome, 304150 Menkes disease, 309400 Spinal muscular atrophy, distal, X-linked 3, 300489
ATR	99,90%	99,40%	100%	100%	Seckel syndrome 1, 210600 ?Cutaneous telangiectasia and cancer syndrome, familial, 614564
AXIN2	100%	99,90%	100%	99,90%	Colorectal cancer, somatic, 114500 Oligodontia-colorectal cancer syndrome, 608615
B3GALT6	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
B4GALT7	99,80%	97,40%	99,90%	98,60%	Ehlers-Danlos syndrome, spondylodysplastic type, 1, 130070
BANF1	98,30%	86,60%	100%	100%	Nestor-Guillermo progeria syndrome, 614008
BAP1	84,40%	83,00%	100%	100%	Tumor predisposition syndrome, 614327
BCOR	99,60%	97,40%	100%	99,90%	Microphthalmia, syndromic 2, 300166

<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>BLM</i>	99,80%	98,30%	100%	100%	Bloom syndrome, 210900
<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>BMS1</i>	66,70%	66,40%	100%	100%	?Aplasia cutis congenita, nonsyndromic, 107600
<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>BRIP1</i>	99,90%	99,00%	100%	100%	Fanconi anemia, complementation group J, 609054
<i>BSCL2</i>	100%	100%	100%	100%	Lipodystrophy, congenital generalized, type 2, 269700 Silver spastic paraplegia syndrome, 270685 Neuropathy, distal hereditary motor, type VA, 600794 Encephalopathy, progressive, with or without lipodystrophy, 615924
<i>BTB</i>	100%	99,90%	100%	100%	Biotinidase deficiency, 253260
<i>C1QA</i>	100%	100%	100%	100%	C1q deficiency, 613652
<i>C1QB</i>	100%	100%	100%	100%	C1q deficiency, 613652
<i>C1QC</i>	100%	99,20%	100%	100%	C1q deficiency, 613652
<i>C2CD3</i>	95,80%	95,60%	95,90%	95,90%	Orofaciodigital syndrome XIV, 615948
<i>C4orf26</i>	100%	100%	100%	100%	Amelogenesis imperfecta, type IIA4, 614832
<i>CA2</i>	100%	100%	100%	100%	Osteopetrosis, autosomal recessive 3, with renal tubular acidosis, 259730
<i>CAPN12</i>	94,00%	88,60%	100%	100%	No OMIM disease ID
<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>CASP14</i>	100%	100%	100%	100%	Ichthyosis, congenital, autosomal recessive 12, 617320
<i>CAST</i>	98,30%	95,40%	100%	100%	Peeling skin with leukonychia, acral punctate keratoses, cheilitis, and knuckle pads, 616295
<i>CAV1</i>	100%	100%	100%	100%	Pulmonary hypertension, primary, 3, 615343 Lipodystrophy, familial partial, type 7, 606721 ?Lipodystrophy, congenital generalized, type 3, 612526
<i>CAVIN1</i>	100%	100%	100%	100%	Lipodystrophy, congenital generalized, type 4, 613327

<i>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>CCBE1</i>	99,80%	98,80%	100%	100%	Hennekam lymphangiectasia-lymphedema syndrome 1, 235510
<i>CD151</i>	100%	100%	100%	100%	Nephropathy with pretibial epidermolysis bullosa and deafness, 609057
<i>CDAN1</i>	100%	99,60%	100%	100%	Dyserythropoietic anemia, congenital, type Ia, 224120
<i>CDH3</i>	100%	99,50%	100%	100%	Ectodermal dysplasia, ectrodactyly, and macular dystrophy, 225280 Hypotrichosis, congenital, with juvenile macular dystrophy, 601553
<i>CDK4</i>	100%	99,70%	100%	100%	No OMIM disease ID
<i>CDKN2A</i>	92,30%	92,10%	100%	100%	No OMIM disease ID
<i>CDSN</i>	100%	100%	100%	100%	Hypotrichosis 2, 146520 Peeling skin syndrome 1, 270300
<i>CELSR1</i>	94,70%	92,80%	99,60%	98,80%	No OMIM disease ID
<i>CERS3</i>	99,90%	98,90%	100%	100%	Ichthyosis, congenital, autosomal recessive 9, 615023
<i>CHKB</i>	100%	99,70%	100%	100%	Muscular dystrophy, congenital, megaconial type, 602541
<i>CHST14</i>	99,90%	98,90%	100%	100%	Ehlers-Danlos syndrome, musculocontractural type 1, 601776
<i>CHSY1</i>	97,20%	95,70%	99,70%	98,00%	Temtamy 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>CKAP2L</i>	99,70%	98,60%	100%	100%	Filippi syndrome, 272440
<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>CNNM4</i>	99,80%	98,90%	99,70%	98,80%	Jalili syndrome, 217080
<i>COL14A1</i>	100%	99,40%	100%	100%	No OMIM disease ID
<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>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>COL3A1</i>	99,60%	97,60%	100%	100%	Ehlers-Danlos syndrome, vascular type, 130050 Polymicrogyria with or without vascular-type EDS, 618343
<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>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>COX4I2</i>	100%	100%	100%	100%	Exocrine pancreatic insufficiency, dyserythropoietic anemia, and calvarial hyperostosis, 612714
<i>COX7B</i>	77,40%	48,80%	100%	100%	Linear skin defects with multiple congenital anomalies 2, 300887
<i>CPOX</i>	99,90%	95,40%	100%	100%	Harderoporphyria, 121300 Coproporphyria, 121300
<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>CTC1</i>	100%	99,60%	100%	100%	Cerebroretinal microangiopathy with calcifications and cysts, 612199
<i>CTSA</i>	100%	100%	100%	100%	Galactosialidosis, 256540
<i>CTSB</i>	100%	100%	100%	100%	No OMIM disease ID
<i>CTSC</i>	100%	100%	100%	100%	Periodontitis 1, juvenile, 170650 Papillon-Lefevre syndrome, 245000 Haim-Munk syndrome, 245010
<i>CXCR4</i>	100%	100%	100%	100%	WHIM syndrome, 193670 Myelokathexis, isolated, 0
<i>CYLD</i>	99,80%	98,00%	100%	100%	Cylindromatosis, familial, 132700 Brooke-Spiegler syndrome, 605041 Trichoepithelioma, multiple familial, 1, 601606
<i>CYP26C1</i>	99,70%	97,10%	100%	99,80%	Focal facial dermal dysplasia 4, 614974
<i>CYP4F22</i>	100%	99,40%	100%	100%	Ichthyosis, congenital, autosomal recessive 5, 604777
<i>DCAF17</i>	98,90%	93,30%	100%	100%	Woodhouse-Sakati syndrome, 241080
<i>DCLRE1C</i>	100%	99,40%	100%	100%	Omenn syndrome, 603554 Severe combined immunodeficiency, Athabaskan type, 602450
<i>DDB2</i>	99,60%	97,50%	100%	100%	Xeroderma pigmentosum, group E, DDB-negative subtype, 278740
<i>DHCR7</i>	100%	100%	100%	100%	Smith-Lemli-Opitz syndrome, 270400
<i>DKC1</i>	99,80%	98,70%	100%	99,70%	Dyskeratosis congenita, X-linked, 305000
<i>DLX3</i>	99,90%	98,40%	100%	100%	Trichodontoosseous syndrome, 190320 Amelogenesis imperfecta, type IV, 104510
<i>DLX5</i>	100%	99,90%	100%	100%	?Split-hand/foot malformation 1 with sensorineural hearing loss, 220600
<i>DOCK6</i>	99,30%	98,90%	100%	100%	Adams-Oliver syndrome 2, 614219

<i>DOCK8</i>	100%	99,60%	100%	100%	Hyper-IgE recurrent infection syndrome, autosomal recessive, 243700
<i>DOLK</i>	100%	100%	100%	100%	Congenital disorder of glycosylation, type Im, 610768
<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>DSG3</i>	99,90%	99,40%	100%	100%	No OMIM disease ID
<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>DTNBP1</i>	99,80%	98,70%	100%	100%	Hermansky-Pudlak syndrome 7, 614076
<i>DUSP6</i>	100%	100%	100%	100%	Hypogonadotropic hypogonadism 19 with or without anosmia, 615269
<i>EBP</i>	99,70%	95,80%	100%	100%	Chondrodysplasia punctata, X-linked dominant, 302960 MEND syndrome, 300960
<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>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>EFEMP2</i>	100%	100%	100%	100%	Cutis laxa, autosomal recessive, type IB, 614437
<i>EFNB1</i>	100%	100%	100%	100%	Craniofrontonasal dysplasia, 304110
<i>EIF2AK3</i>	97,20%	94,50%	100%	100%	Wolcott-Rallison syndrome, 226980
<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>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>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>EPG5</i>	99,50%	98,50%	100%	100%	Vici syndrome, 242840
<i>EPS8L3</i>	98,90%	97,30%	100%	100%	?Hypotrichosis 5, 612841
<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>ERCC8</i>	99,50%	95,80%	100%	100%	Cockayne syndrome, type A, 216400 UV-sensitive syndrome 2, 614621

<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>EXPH5</i>	100%	100%	100%	100%	Epidermolysis bullosa, nonspecific, autosomal recessive, 615028
<i>FAM111B</i>	100%	99,90%	100%	100%	Poikiloderma, hereditary fibrosing, with tendon contractures, myopathy, and pulmonary fibrosis, 615704
<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>FAM83G</i>	100%	100%	100%	100%	No OMIM disease ID
<i>FAM83H</i>	99,00%	95,00%	100%	100%	Amelogenesis imperfecta, type IIIA, 130900
<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>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>FDPS</i>	99,10%	93,50%	100%	100%	Porokeratosis 9, multiple types, 616631
<i>FECH</i>	100%	100%	100%	100%	Protoporphyrin, erythropoietic, 1, 177000
<i>FERMT1</i>	99,90%	97,90%	100%	100%	Kindler syndrome, 173650
<i>FGF10</i>	100%	99,80%	100%	100%	Aplasia of lacrimal and salivary glands, 180920 LADD syndrome, 149730
<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>FGFR1</i>	100%	99,90%	100%	100%	<p>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</p>
<i>FGFR2</i>	97,70%	97,10%	100%	100%	<p>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</p>
<i>FGFR3</i>	99,80%	97,70%	100%	99,80%	<p>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</p>
<i>FH</i>	92,10%	88,30%	100%	100%	<p>Fumarase deficiency, 606812 Leiomyomatosis and renal cell cancer, 150800</p>

<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>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>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>FNIP1</i>	100%	99,80%	100%	100%	No OMIM disease ID
<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>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>FOXP3</i>	99,20%	95,50%	100%	100%	Immunodysregulation, polyendocrinopathy, and enteropathy, X-linked, 304790
<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>FUCA1</i>	100%	99,90%	100%	100%	Fucosidosis, 230000
<i>FZD6</i>	100%	100%	100%	100%	Nail disorder, nonsyndromic congenital, 1, 161050
<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>GAN</i>	100%	99,60%	100%	100%	Giant axonal neuropathy-1, 256850
<i>GATA2</i>	100%	98,30%	100%	100%	Emberger syndrome, 614038 Immunodeficiency 21, 614172
<i>GDF2</i>	100%	100%	100%	100%	Telangiectasia, hereditary hemorrhagic, type 5, 615506
<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>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>GJA1</i>	100%	100%	100%	100%	Erythrokeratoderma variabilis et progressiva 3, 617525 Craniometaphyseal dysplasia, autosomal recessive, 218400 Atrioventricular septal defect 3, 600309 Oculodentodigital dysplasia, 164200 Syndactyly, type III, 186100 Oculodentodigital dysplasia, autosomal recessive, 257850 Hypoplastic left heart syndrome 1, 241550 Palmoplantar keratoderma with congenital alopecia, 104100
<i>GJB2</i>	100%	100%	100%	100%	Deafness, autosomal dominant 3A, 601544 Deafness, autosomal recessive 1A, 220290 Bart-Pumphrey syndrome, 149200 Vohwinkel syndrome, 124500 Keratoderma, palmoplantar, with deafness, 148350 Keratitis-ichthyosis-deafness syndrome, 148210 Hystrix-like ichthyosis with deafness, 602540
<i>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 paraplegia 44, autosomal recessive, 613206 Lymphatic malformation 3, 613480 Leukodystrophy, hypomyelinating, 2, 608804
<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>GLMN</i>	99,30%	94,70%	100%	100%	Glomuvenous malformations, 138000
<i>GMPPA</i>	100%	100%	100%	100%	Alacrima, achalasia, and mental retardation syndrome, 615510

<i>GNA11</i>	99,90%	95,00%	100%	100%	Hypocalciuric hypercalcemia, type II, 145981 Hypocalcemia, autosomal dominant 2, 615361
<i>GNA14</i>	100%	100%	100%	100%	No OMIM disease ID
<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 1c, 612462 Pseudohypoparathyroidism 1b, 603233 Pseudopseudohypoparathyroidism, 612463 McCune-Albright syndrome, somatic, mosaic, 174800 Osseous heteroplasia, progressive, 166350 Pituitary adenoma 3, multiple types, somatic, 617686 Pseudohypoparathyroidism 1a, 103580
<i>GORAB</i>	100%	99,10%	100%	100%	Geroderma osteodysplasticum, 231070
<i>GPNMB</i>	100%	100%	100%	100%	Amyloidosis, primary localized cutaneous, 3, 617920
<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>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>GSN</i>	95,80%	93,50%	99,90%	99,30%	Amyloidosis, Finnish type, 105120
<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>HCCS</i>	99,80%	97,60%	100%	100%	Linear skin defects with multiple congenital anomalies 1, 309801
<i>HDAC8</i>	100%	99,80%	100%	100%	Cornelia de Lange syndrome 5, 300882
<i>HERC2</i>	79,90%	77,20%	100%	100%	Mental retardation, autosomal recessive 38, 615516
<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>HOXC13</i>	100%	99,90%	100%	100%	Ectodermal dysplasia 9, hair/nail type, 614931
<i>HPGD</i>	100%	98,90%	100%	100%	Digital clubbing, isolated congenital, 119900 Hypertrophic osteoarthropathy, primary, autosomal recessive 1, 259100 Cranioosteoarthropathy, 259100
<i>HPS1</i>	100%	100%	100%	100%	Hermansky-Pudlak syndrome 1, 203300
<i>HPS3</i>	99,70%	97,50%	100%	100%	Hermansky-Pudlak syndrome 3, 614072
<i>HPS4</i>	100%	100%	100%	100%	Hermansky-Pudlak syndrome 4, 614073

<i>HPS5</i>	100%	99,70%	100%	100%	Hermansky-Pudlak syndrome 5, 614074
<i>HPS6</i>	97,10%	88,90%	100%	100%	Hermansky-Pudlak syndrome 6, 614075
<i>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>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>HYAL1</i>	100%	100%	100%	100%	?Mucopolysaccharidosis type IX, 601492
<i>IDUA</i>	93,70%	86,80%	100%	100%	Mucopolysaccharidosis Ih/s, 607015 Mucopolysaccharidosis Ih, 607014 Mucopolysaccharidosis Is, 607016
<i>IFT122</i>	100%	99,60%	100%	100%	Cranioectodermal dysplasia 1, 218330
<i>IFT43</i>	100%	100%	100%	100%	?Cranioectodermal dysplasia 3, 614099 Short-rib thoracic dysplasia 18 with polydactyly, 617866 ?Retinitis pigmentosa 81, 617871
<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>IL17RA</i>	100%	99,40%	100%	100%	Immunodeficiency 51, 613953
<i>IL17RD</i>	99,90%	99,10%	100%	100%	Hypogonadotropic hypogonadism 18 with or without anosmia, 615267
<i>IL1RN</i>	100%	100%	100%	100%	Interleukin 1 receptor antagonist deficiency, 612852
<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>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>MR E11</i>	98,90%	93,30%	100%	100%	Ataxia-telangiectasia-like disorder 1, 604391
<i>IRF4</i>	100%	100%	100%	100%	No OMIM disease ID
<i>IRF6</i>	99,60%	95,90%	100%	100%	Popliteal pterygium syndrome 1, 119500 van der Woude syndrome, 119300
<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>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>JUP</i>	100%	99,50%	100%	100%	Arrhythmogenic right ventricular dysplasia 12, 611528 Naxos disease, 601214
<i>KANK2</i>	100%	100%	100%	100%	Nephrotic syndrome, type 16, 617783 Palmoplantar keratoderma and woolly hair, 616099
<i>KAT6B</i>	99,90%	99,00%	100%	100%	SBBYSS syndrome, 603736 Genitopatellar syndrome, 606170
<i>KCNH1</i>	98,70%	98,70%	98,70%	98,70%	Temple-Baraitser syndrome, 611816 Zimmermann-Laband syndrome 1, 135500
<i>KCNK9</i>	100%	100%	100%	100%	Birk-Barel mental retardation dysmorphism syndrome, 612292
<i>KDF1</i>	100%	99,80%	100%	100%	?Ectodermal dysplasia 12, hypohidrotic/hair/tooth/nail type, 617337
<i>KDSR</i>	100%	99,50%	100%	100%	Erythrokeratoderma variabilis et progressiva 4, 617526
<i>KIF11</i>	97,60%	94,80%	100%	100%	Microcephaly with or without chorioretinopathy, lymphedema, or mental retardation, 152950
<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>KLHL24</i>	100%	100%	100%	100%	Epidermolysis bullosa simplex, generalized, with scarring and hair loss, 617294
<i>KLK4</i>	100%	100%	100%	100%	Amelogenesis imperfecta, type IIA1, 204700
<i>KLLN</i>	100%	100%	100%	100%	Cowden syndrome 4, 615107
<i>KMT2D</i>	100%	99,40%	100%	100%	Kabuki syndrome 1, 147920
<i>KRAS</i>	99,50%	96,90%	100%	100%	Oculoectodermal syndrome, somatic, 600268 Leukemia, acute myeloid, somatic, 601626 Breast cancer, somatic, 114480

					<p>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</p>
<i>KRT1</i>	98,70%	95,60%	100%	100%	<p>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</p>
<i>KRT10</i>	100%	99,30%	100%	100%	<p>Epidermolytic hyperkeratosis, 113800 Ichthyosis with confetti, 609165 Ichthyosis, cyclic, with epidermolytic hyperkeratosis, 607602</p>
<i>KRT13</i>	100%	100%	100%	100%	<p>White sponge nevus 2, 615785</p>
<i>KRT14</i>	89,00%	81,90%	100%	100%	<p>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</p>
<i>KRT16</i>	74,20%	56,50%	100%	100%	<p>Palmoplantar keratoderma, nonepidermolytic, focal, 613000 Pachyonychia congenita 1, 167200</p>
<i>KRT17</i>	39,80%	22,80%	100%	100%	<p>Pachyonychia congenita 2, 167210 Steatocystoma multiplex, 184500</p>
<i>KRT2</i>	100%	99,80%	100%	100%	<p>Ichthyosis bullosa of Siemens, 146800</p>
<i>KRT4</i>	100%	99,70%	100%	100%	<p>White sponge nevus 1, 193900</p>
<i>KRT5</i>	100%	100%	100%	100%	<p>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</p>

<i>KRT6A</i>	92,30%	87,70%	100%	100%	Pachyonychia congenita 3, 615726
<i>KRT6B</i>	93,60%	88,60%	100%	100%	Pachyonychia congenita 4, 615728
<i>KRT6C</i>	88,30%	81,30%	99,90%	99,80%	Palmoplantar keratoderma, nonepidermolytic, focal or diffuse, 615735
<i>KRT71</i>	100%	100%	100%	100%	?Hypotrichosis 13, 615896
<i>KRT74</i>	100%	100%	100%	100%	?Ectodermal dysplasia 7, hair/nail type, 614929 Woolly hair, autosomal dominant, 194300 ?Hypotrichosis 3, 613981
<i>KRT75</i>	100%	100%	100%	100%	No OMIM disease ID
<i>KRT81</i>	99,20%	94,20%	100%	100%	Monilethrix, 158000
<i>KRT83</i>	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>LAMA3</i>	100%	99,70%	100%	100%	Epidermolysis bullosa, junctional, Herlitz type, 226700 Laryngoonychocutaneous syndrome, 245660 Epidermolysis bullosa, generalized atrophic benign, 226650
<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>LAMTOR2</i>	100%	99,70%	100%	100%	Immunodeficiency due to defect in MAPBP-interacting protein, 610798
<i>LDHA</i>	95,00%	91,70%	100%	100%	Glycogen storage disease XI, 612933
<i>LDLRAP1</i>	98,80%	94,20%	100%	100%	Hypercholesterolemia, familial, 4, 603813
<i>LEMD3</i>	99,90%	98,70%	100%	100%	Osteopoikilosis with or without melorheostosis, 166700 Buschke-Ollendorff syndrome, 166700
<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>LMBRD1</i>	98,50%	93,90%	100%	100%	Methylmalonic aciduria and homocystinuria, cblF type, 277380
<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>LMX1B</i>	99,60%	96,30%	100%	100%	Nail-patella syndrome, 161200
<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>LPAR6</i>	99,60%	97,80%	100%	100%	Hypotrichosis 8, 278150 Woolly hair, autosomal recessive 1, with or without hypotrichosis, 278150
<i>LPIN2</i>	100%	100%	100%	100%	Majeed syndrome, 609628
<i>LRMDA</i>	96,80%	95,60%	99,60%	99,60%	Albinism, oculocutaneous, type VII, 615179
<i>LSS</i>	100%	99,90%	100%	100%	Alopecia-mental retardation syndrome 4, 618840 Cataract 44, 616509 Hypotrichosis 14, 618275
<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>LYST</i>	99,60%	98,30%	100%	100%	Chediak-Higashi syndrome, 214500
<i>LYZ</i>	100%	100%	100%	100%	Amyloidosis, renal, 105200
<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>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>MED12</i>	99,80%	96,70%	100%	100%	Ohdo syndrome, X-linked, 300895 Lujan-Fryns syndrome, 309520 Opitz-Kaveggia syndrome, 305450
<i>MEFV</i>	99,90%	98,60%	96,40%	96,40%	Familial Mediterranean fever, AR, 249100 Familial Mediterranean fever, AD, 134610
<i>MGP</i>	98,70%	95,10%	100%	100%	Keutel syndrome, 245150
<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>MLH1</i>	100%	99,90%	100%	100%	Mismatch repair cancer syndrome, 276300 Muir-Torre syndrome, 158320 Colorectal cancer, hereditary nonpolyposis, type 2, 609310

<i>MLPH</i>	100%	98,80%	100%	100%	Griscelli syndrome, type 3, 609227
<i>MMACHC</i>	100%	100%	100%	100%	Methylmalonic aciduria and homocystinuria, cblC type, 277400
<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>MPLKIP</i>	100%	99,40%	100%	100%	Trichothiodystrophy 4, nonphotosensitive, 234050
<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>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>MTOR</i>	100%	99,50%	100%	100%	Smith-Kingsmore syndrome, 616638 Focal cortical dysplasia, type II, somatic, 607341
<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>MYH8</i>	100%	99,60%	100%	100%	Carney complex variant, 608837 Trismus-pseudocamptodactyly syndrome, 158300
<i>MYO5A</i>	99,80%	98,90%	100%	100%	Griscelli syndrome, type 1, 214450
<i>NAA10</i>	99,70%	98,50%	99,90%	99,90%	Ogden syndrome, 300855 ?Microphthalmia, syndromic 1, 309800
<i>NAGA</i>	100%	100%	100%	100%	Kanzaki disease, 609242 Schindler disease, type I, 609241 Schindler disease, type III, 609241
<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>NCSTN</i>	100%	99,80%	100%	100%	Acne inversa, familial, 1, 142690
<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>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>NEK11</i>	99,90%	98,80%	100%	100%	No OMIM disease ID

<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>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>NFKBIA</i>	95,20%	88,00%	100%	100%	Ectodermal dysplasia and immunodeficiency 2, 612132
<i>NHP2</i>	100%	100%	100%	100%	Dyskeratosis congenita, autosomal recessive 2, 613987
<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>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>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>NME1</i>	100%	100%	100%	100%	No OMIM disease ID
<i>NOD2</i>	100%	99,90%	100%	100%	Blau syndrome, 186580
<i>NOP10</i>	100%	99,80%	100%	100%	Dyskeratosis congenita, autosomal recessive 1, 224230
<i>NOTCH1</i>	99,20%	97,20%	100%	100%	Aortic valve disease 1, 109730 Adams-Oliver syndrome 5, 616028
<i>NRAS</i>	100%	100%	100%	100%	Epidermal nevus, somatic, 162900 Melanocytic nevus syndrome, congenital, somatic, 137550 Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaicism, 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>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>OCA2</i>	99,90%	98,70%	100%	100%	Albinism, oculocutaneous, type II, 203200 Albinism, brown oculocutaneous, 203200

<i>ODAM</i>	99,80%	98,70%	100%	100%	No OMIM disease ID
<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>OSMR</i>	100%	99,70%	100%	100%	Amyloidosis, primary localized cutaneous, 1, 105250
<i>PADI3</i>	100%	100%	100%	100%	Uncombable hair syndrome, 191480
<i>PAH</i>	100%	100%	100%	100%	Phenylketonuria, 261600
<i>PALB2</i>	100%	100%	100%	100%	Fanconi anemia, complementation group N, 610832
<i>PAX3</i>	100%	99,90%	100%	100%	Craniofacial-deafness-hand syndrome, 122880 Rhabdomyosarcoma 2, alveolar, 268220 Waardenburg syndrome, type 1, 193500 Waardenburg syndrome, type 3, 148820
<i>PAX9</i>	99,70%	99,60%	100%	100%	Tooth agenesis, selective, 3, 604625
<i>PCNA</i>	100%	98,40%	100%	100%	?Ataxia-telangiectasia-like disorder 2, 615919
<i>PDGFB</i>	100%	99,30%	100%	100%	Dermatofibrosarcoma protuberans, 607907 Basal ganglia calcification, idiopathic, 5, 615483 Meningioma, SIS-related, 607174
<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>PEPD</i>	100%	98,80%	100%	100%	Prolidase deficiency, 170100
<i>PERP</i>	100%	100%	100%	100%	No OMIM disease ID
<i>PEX7</i>	87,80%	80,70%	91,30%	91,30%	Peroxisome biogenesis disorder 9B, 614879 Rhizomelic chondrodysplasia punctata, type 1, 215100
<i>PHEX</i>	100%	99,60%	99,90%	99,20%	Hypophosphatemic rickets, X-linked dominant, 307800
<i>PHGDH</i>	99,90%	98,80%	100%	100%	Neu-Laxova syndrome 1, 256520 Phosphoglycerate dehydrogenase deficiency, 601815
<i>PHYH</i>	100%	99,60%	100%	100%	Refsum disease, 266500
<i>TALDO1</i>	100%	97,90%	100%	100%	Transaldolase deficiency, 606003
<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>TAT</i>	100%	100%	100%	100%	Tyrosinemia, type II, 276600
<i>PIEZO1</i>	99,90%	98,80%	100%	100%	Lymphatic malformation 6, 616843 Dehydrated hereditary stomatocytosis with or without pseudohyperkalemia and/or perinatal edema, 194380

<i>PIGA</i>	93,80%	86,70%	100%	100%	Multiple congenital anomalies-hypotonia-seizures syndrome 2, 300868 Paroxysmal nocturnal hemoglobinuria, somatic, 300818
<i>PIGN</i>	93,80%	91,50%	98,80%	98,80%	Multiple congenital anomalies-hypotonia-seizures syndrome 1, 614080
<i>PIGV</i>	100%	100%	100%	100%	Hyperphosphatasia with mental retardation syndrome 1, 239300
<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 Nonsmall cell lung cancer, somatic, 211980
<i>PITX2</i>	99,90%	97,70%	100%	100%	Axenveld-Rieger syndrome, type 1, 180500 Ring dermoid of cornea, 180550 Anterior segment dysgenesis 4, 137600
<i>PKP1</i>	100%	99,10%	100%	100%	Ectodermal dysplasia/skin fragility syndrome, 604536
<i>PLCD1</i>	99,90%	97,80%	100%	100%	Nail disorder, nonsyndromic congenital, 3, (leukonychia), 151600
<i>PLCG2</i>	100%	99,80%	100%	100%	Familial cold autoinflammatory syndrome 3, 614468 Autoinflammation, antibody deficiency, and immune dysregulation syndrome, 614878
<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>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>PLOD1</i>	100%	98,40%	100%	100%	Ehlers-Danlos syndrome, kyphoscoliotic type, 1, 225400
<i>PLOD3</i>	99,80%	98,00%	100%	100%	Lysyl hydroxylase 3 deficiency, 612394
<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>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>POC1A</i>	100%	100%	100%	100%	Short stature, onychodysplasia, facial dysmorphism, and hypotrichosis, 614813
<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>POLD1</i>	98,50%	95,20%	100%	100%	Mandibular hypoplasia, deafness, progeroid features, and lipodystrophy syndrome, 615381
<i>POLH</i>	100%	99,60%	100%	100%	Xeroderma pigmentosum, variant type, 278750
<i>POLR1C</i>	99,30%	95,50%	90,70%	90,70%	Treacher Collins syndrome 3, 248390 Leukodystrophy, hypomyelinating, 11, 616494
<i>POLR1D</i>	91,60%	91,60%	100%	100%	Treacher Collins syndrome 2, 613717
<i>POLR3A</i>	100%	99,70%	100%	100%	Leukodystrophy, hypomyelinating, 7, with or without oligodontia and/or hypogonadotropic hypogonadism, 607694 Wiedemann-Rautenstrauch syndrome, 264090
<i>POLR3B</i>	99,90%	98,60%	100%	100%	Leukodystrophy, hypomyelinating, 8, with or without oligodontia and/or hypogonadotropic hypogonadism, 614381
<i>POMC</i>	100%	100%	100%	100%	Obesity, adrenal insufficiency, and red hair due to POMC deficiency, 609734
<i>POMP</i>	100%	99,10%	100%	100%	Proteasome-associated autoinflammatory syndrome 2, 618048 Keratosis linearis with ichthyosis congenita and sclerosing keratoderma, 601952
<i>PORCN</i>	100%	99,10%	100%	100%	Focal dermal hypoplasia, 305600
<i>POT1</i>	99,90%	99,00%	100%	100%	No OMIM disease ID
<i>PPOX</i>	99,70%	96,80%	100%	100%	Porphyria variegata, 176200
<i>PQBP1</i>	100%	100%	100%	100%	Renpenning syndrome, 309500
<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>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>PSENE1</i>	100%	100%	100%	100%	Acne inversa, familial, 2, with or without Dowling-Degos disease, 613736
<i>PSMB8</i>	99,90%	98,50%	100%	100%	Proteasome-associated autoinflammatory syndrome 1 and digenic forms, 256040
<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>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>PTPN14</i>	99,70%	97,40%	100%	100%	Choanal atresia and lymphedema, 613611
<i>PTPRF</i>	100%	99,70%	100%	100%	?Breasts and/or nipples, aplasia or hypoplasia of, 2, 616001
<i>PYCR1</i>	99,90%	97,70%	100%	100%	Cutis laxa, autosomal recessive, type IIIB, 614438 Cutis laxa, autosomal recessive, type IIB, 612940
<i>RAB23</i>	100%	99,50%	100%	100%	Carpenter syndrome, 201000
<i>RAB27A</i>	100%	100%	100%	100%	Griscelli syndrome, type 2, 607624
<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>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>RBBP8</i>	100%	99,70%	100%	100%	Jawad syndrome, 251255 Seckel syndrome 2, 606744 Pancreatic carcinoma, somatic, 0
<i>RBM28</i>	100%	100%	100%	100%	?Alopecia, neurologic defects, and endocrinopathy syndrome, 612079
<i>RBP4</i>	99,90%	97,70%	100%	100%	Microphthalmia, 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>RECQL4</i>	99,80%	98,10%	100%	99,90%	RAPADILINO syndrome, 266280 Baller-Gerold syndrome, 218600 Rothmund-Thomson syndrome, type 2,, 268400
<i>RHBDF2</i>	99,90%	98,60%	100%	100%	Tylosis with esophageal cancer, 148500
<i>RHOA</i>	81,20%	80,70%	80,70%	80,70%	Ectodermal dysplasia with facial dysmorphism and acral, ocular, and brain anomalies, somatic mosaic, 618727
<i>RIN2</i>	100%	100%	100%	100%	Macrocephaly, alopecia, cutis laxa, and scoliosis, 613075
<i>RMRP</i>	NC	NC	NC	NC	Anauxetic dysplasia 1, 607095 Cartilage-hair hypoplasia, 250250 Metaphyseal dysplasia without hypotrichosis, 250460
<i>RIPK4</i>	100%	99,90%	100%	100%	Popliteal pterygium syndrome, Bartsocas-Papas type, 263650 CHAND syndrome, 214350
<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>RNU4ATAC</i>	NC	NC	NC	NC	Microcephalic osteodysplastic primordial dwarfism, type I, 210710 Roifman syndrome, 616651
<i>ROGDI</i>	98,40%	95,20%	99,90%	99,10%	Kohlschutter-Tonz syndrome, 226750
<i>RPL21</i>	88,80%	71,70%	100%	100%	Hypotrichosis 12, 615885
<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>RSPO4</i>	100%	100%	100%	100%	Anonychia congenita, 206800
<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>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>SAMD9</i>	100%	99,80%	100%	100%	MIRAGE syndrome, 617053 Tumoral calcinosis, familial, normophosphatemic, 610455

<i>SAMHD1</i>	100%	99,60%	100%	100%	?Chilblain lupus 2, 614415 Aicardi-Goutieres syndrome 5, 612952
<i>SART3</i>	99,60%	98,60%	100%	100%	No OMIM disease ID
<i>SASH1</i>	99,90%	98,70%	100%	100%	?Cancer, alopecia, pigment dyscrasia, onychodystrophy, and keratoderma, 618373 Dyschromatosis universalis hereditaria 1, 127500
<i>SAT1</i>	99,90%	98,50%	100%	99,90%	No OMIM disease ID
<i>SATB2</i>	99,70%	97,40%	100%	100%	Glass syndrome, 612313
<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>SCN9A</i>	99,30%	97,80%	100%	100%	Small fiber neuropathy, 133020 HSAN2D, autosomal recessive, 243000 Paroxysmal extreme pain disorder, 167400 Epilepsy, generalized, with febrile seizures plus, type 7, 613863 Insensitivity to pain, congenital, 243000 Erythralgia, primary, 133020 Febrile seizures, familial, 3B, 613863
<i>SDR9C7</i>	100%	100%	100%	100%	Ichthyosis, congenital, autosomal recessive 13, 617574
<i>SEC23B</i>	99,90%	99,30%	100%	100%	?Cowden syndrome 7, 616858 Dyserythropoietic anemia, congenital, type II, 224100
<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>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>SGPL1</i>	100%	100%	100%	100%	Nephrotic syndrome, type 14, 617575
<i>SHOC2</i>	99,90%	99,40%	100%	100%	Noonan syndrome-like with loose anagen hair, 607721
<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>SLC17A9</i>	96,30%	95,40%	100%	100%	Porokeratosis 8, disseminated superficial actinic type, 616063
<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>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>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>SLC2A10</i>	97,70%	97,70%	100%	100%	Arterial tortuosity syndrome, 208050
<i>SLC39A13</i>	99,80%	98,20%	100%	100%	Ehlers-Danlos syndrome, spondylodysplastic type, 3, 612350
<i>SLC39A4</i>	99,50%	95,50%	100%	100%	Acrodermatitis enteropathica, 201100
<i>SLC45A2</i>	100%	99,90%	100%	100%	Albinism, oculocutaneous, type IV, 606574
<i>SLC4A4</i>	99,80%	99,20%	100%	100%	Renal tubular acidosis, proximal, with ocular abnormalities, 604278
<i>SLC6A19</i>	100%	100%	100%	100%	Iminoglycinuria, digenic, 242600 HEARTnup disorder, 234500 Hyperglycinuria, 138500
<i>SLC7A7</i>	100%	99,90%	100%	100%	Lysinuric protein intolerance, 222700
<i>SLCO2A1</i>	100%	99,40%	100%	100%	Hypertrophic osteoarthropathy, primary, autosomal recessive 2, 614441
<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>SMARCA2</i>	96,70%	96,20%	97,40%	96,80%	Nicolaidis-Baraitser syndrome, 601358
<i>SMARCA4</i>	99,90%	99,00%	100%	100%	Coffin-Siris syndrome 4, 614609
<i>SMARCAD1</i>	99,30%	95,80%	100%	100%	Huriez syndrome, 181600 Basan syndrome, 129200 Adermatoglyphia, 136000
<i>SMARCAL1</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>SMO</i>	97,80%	94,70%	100%	100%	Curry-Jones syndrome, somatic mosaic, 601707 Basal cell carcinoma, somatic, 605462
<i>SMOC2</i>	77,00%	76,70%	100%	100%	Dentin dysplasia, type I, with microdontia and misshapen teeth, 125400
<i>SNAI2</i>	100%	99,10%	100%	100%	Waardenburg syndrome, type 2D, 608890 Piebaldism, 172800
<i>SNAP29</i>	100%	100%	100%	100%	Cerebral dysgenesis, neuropathy, ichthyosis, and palmoplantar keratoderma syndrome, 609528
<i>SNRPE</i>	99,50%	92,60%	100%	100%	Hypotrichosis 11, 615059
<i>SNX10</i>	96,20%	95,70%	100%	99,60%	Osteopetrosis, autosomal recessive 8, 615085
<i>SOS1</i>	99,80%	98,40%	100%	100%	Noonan syndrome 4, 610733 ?Fibromatosis, gingival, 1, 135300
<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>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>SP7</i>	100%	99,80%	100%	100%	Osteogenesis imperfecta, type XII, 613849
<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>SPRED1</i>	100%	98,90%	100%	100%	Legius syndrome, 611431
<i>SPRY4</i>	100%	100%	100%	100%	Hypogonadotropic hypogonadism 17 with or without anosmia, 615266
<i>SRD5A3</i>	99,90%	99,10%	100%	100%	Kahrizi syndrome, 612713 Congenital disorder of glycosylation, type Iq, 612379
<i>ST14</i>	99,90%	98,60%	100%	100%	Ichthyosis, congenital, autosomal recessive 11, 602400
<i>ST3GAL5</i>	85,00%	84,20%	98,70%	98,40%	Salt and pepper developmental regression syndrome, 609056
<i>STAMBP</i>	100%	99,40%	100%	100%	Microcephaly-capillary malformation syndrome, 614261
<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>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>STS</i>	99,70%	98,10%	100%	99,90%	Ichthyosis, X-linked, 308100
<i>SUFU</i>	100%	100%	100%	100%	Basal cell nevus syndrome, 109400 Medulloblastoma, desmoplastic, 155255 Joubert syndrome 32, 617757
<i>SULT2B1</i>	100%	100%	100%	100%	Ichthyosis, congenital, autosomal recessive 14, 617571
<i>SUMF1</i>	97,50%	90,80%	100%	100%	Multiple sulfatase deficiency, 272200
<i>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>TBX3</i>	99,20%	96,80%	100%	100%	Ulnar-mammary syndrome, 181450

<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>TEK</i>	100%	100%	100%	100%	Glaucoma 3, primary congenital, E, 617272 Venous malformations, multiple cutaneous and mucosal, 600195
<i>TERC</i>	NC	NC	NC	NC	Dyskeratosis congenita, autosomal dominant 1, 127550
<i>TERF2IP</i>	99,90%	97,30%	100%	100%	No OMIM disease ID
<i>TERT</i>	96,20%	94,50%	100%	100%	No OMIM disease ID
<i>TFAP2A</i>	99,40%	94,30%	100%	100%	Branchiooculofacial syndrome, 113620
<i>TGFB2</i>	100%	100%	100%	100%	Loeys-Dietz syndrome 4, 614816
<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>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>TINF2</i>	100%	100%	100%	100%	Revesz syndrome, 268130 Dyskeratosis congenita, autosomal dominant 3, 613990
<i>TMC6</i>	100%	99,30%	100%	100%	Epidermodysplasia verruciformis, 226400
<i>TMC8</i>	100%	98,70%	100%	100%	Epidermodysplasia verruciformis 2, 618231
<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>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>TNFRSF1A</i>	90,60%	87,60%	92,80%	92,80%	Periodic fever, familial, 142680
<i>TNFSF11</i>	100%	99,90%	100%	100%	Osteopetrosis, autosomal recessive 2, 259710
<i>TNXB</i>	99,60%	95,10%	100%	100%	Ehlers-Danlos syndrome, classic-like, 1, 606408 Vesicoureteral reflux 8, 615963
<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>TPCN2</i>	95,10%	92,40%	100%	100%	No OMIM disease ID

<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>TRIM32</i>	100%	100%	100%	100%	?Bardet-Biedl syndrome 11, 615988 Muscular dystrophy, limb-girdle, autosomal recessive 8, 254110
<i>TRIM37</i>	98,60%	98,10%	98,70%	98,70%	Mulibrey nanism, 253250
<i>TRPM4</i>	100%	99,50%	100%	100%	Erythrokeratoderma variabilis et progressiva 6, 618531 Progressive familial heart block, type IB, 604559
<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>TSC1</i>	99,80%	98,70%	100%	100%	Tuberous sclerosis-1, 191100 Focal cortical dysplasia, type II, somatic, 607341 Lymphangioliomyomatosis, 606690
<i>TSC2</i>	100%	99,60%	100%	100%	Tuberous sclerosis-2, 613254 ?Focal cortical dysplasia, type II, somatic, 607341 Lymphangioliomyomatosis, somatic, 606690
<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>TTC37</i>	100%	99,30%	100%	100%	Trichohepatoenteric syndrome 1, 222470
<i>TTI2</i>	100%	100%	100%	100%	Mental retardation, autosomal recessive 39, 615541
<i>TWIST2</i>	100%	100%	100%	100%	Barber-Say syndrome, 209885 Ablepharon-macrostomia syndrome, 200110 Focal facial dermal dysplasia 3, Setleis type, 227260
<i>TYR</i>	100%	100%	100%	100%	Waardenburg syndrome/albinism, digenic, 103470 Albinism, oculocutaneous, type IB, 606952 Albinism, oculocutaneous, type IA, 203100
<i>TYRP1</i>	100%	99,80%	100%	100%	Albinism, oculocutaneous, type III, 203290
<i>UBE2A</i>	99,70%	96,00%	100%	99,70%	Mental retardation, X-linked syndromic, Nascimento-type, 300860
<i>UBR1</i>	99,90%	99,10%	98,00%	98,00%	Johanson-Blizzard syndrome, 243800
<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>UVSSA</i>	99,30%	98,80%	99,40%	99,30%	UV-sensitive syndrome 3, 614640
<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

VHL	96,30%	91,40%	100%	100%	Pheochromocytoma, 171300 Erythrocytosis, familial, 2, 263400 von Hippel-Lindau syndrome, 193300 Renal cell carcinoma, somatic, 144700 Hemangioblastoma, cerebellar, somatic, 0
VPS13B	99,50%	98,20%	99,50%	99,40%	Cohen syndrome, 216550
VPS33B	100%	100%	100%	100%	Arthrogyriposis, renal dysfunction, and cholestasis 1, 208085
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
WDR19	100%	99,40%	100%	100%	Nephronophthisis 13, 614377 Senior-Loken syndrome 8, 616307 ?Cranioectodermal dysplasia 4, 614378 ?Short-rib thoracic dysplasia 5 with or without polydactyly, 614376
WDR35	99,80%	98,90%	100%	100%	Short-rib thoracic dysplasia 7 with or without polydactyly, 614091 Cranioectodermal dysplasia 2, 613610
WDR72	96,80%	96,40%	96,90%	96,90%	Amelogenesis imperfecta, type IIA3, 613211
WIPF1	100%	99,90%	100%	100%	?Wiskott-Aldrich syndrome 2, 614493
WNT10A	100%	99,40%	100%	100%	Schopf-Schulz-Passarge syndrome, 224750 Tooth agenesis, selective, 4, 150400 Odontoonychodermal dysplasia, 257980
WNT10B	100%	99,40%	100%	100%	Split-hand/foot malformation 6, 225300 Tooth agenesis, selective, 8, 617073
WNT5A	100%	100%	100%	100%	Robinow syndrome, autosomal dominant 1, 180700
WNT7A	100%	100%	100%	100%	Fuhrmann syndrome, 228930 Ulna and fibula, absence of, with severe limb deficiency, 276820
WRAP53	100%	100%	100%	100%	Dyskeratosis congenita, autosomal recessive 3, 613988
WRN	99,90%	98,80%	100%	100%	Werner syndrome, 277700
XPA	99,60%	95,60%	100%	100%	Xeroderma pigmentosum, group A, 278700
XPC	100%	100%	100%	100%	Xeroderma pigmentosum, group C, 278720
XYLT1	97,40%	89,60%	98,10%	94,80%	Desbuquois dysplasia 2, 615777
XYLT2	100%	98,30%	96,70%	96,70%	Spondyloocular syndrome, 605822
YWHAZ	81,20%	71,70%	100%	100%	No OMIM disease ID
ZBTB20	100%	100%	100%	100%	PriINTELLECTUAL DISABILITYose syndrome, 259050
ZMPSTE24	100%	99,90%	100%	100%	Restrictive dermopathy, lethal, 275210 Mandibuloacral dysplasia with type B lipodystrophy, 608612
ZNF469	100%	100%	100%	100%	Brittle cornea syndrome 1, 229200

ZNF592	100%	99,60%	100%	100%	No OMIM disease ID
ZNF750	100%	100%	100%	100%	Seborrhea-like dermatitis with psoriasiform elements, 610227

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
