

# Kraniofaciale malformasjoner

Genpanel, versjon v02

Tabellen er sortert på gennavn (HGNC gensymbol)

Navn på gen er iht. HGNC

Kolonnen **>x10** viser andel av genet som vi forventer blir lest med tilfredstillende kvalitet flere enn 10 ganger under sekvensering

\* Enkelte genomiske regioner har lav eller ingen sekvensdekning ved eksomsekvensering. Dette skyldes at de har stor likhet med andre områder i genomet, slik at spesifikk gjenkjennelse av disse områdene og påvisning av varianter i disse områdene, blir vanskelig og upålitelig. Disse genetiske regionene har vi identifisert ved å benytte USCS segmental duplication hvor områder større enn 1 kb og  $\geq 90\%$  likhet med andre regioner i genomet, gjenkjennes (<https://genome.ucsc.edu>).

For noen gener ligger alle ekson i områder med segmentale duplikasjoner, så disse vil ikke bli analysert: **UBB**

Vi gjør oppmerksom på at ved identifisering av ekson oppstrøms for startkodon kan eksonnummereringen endres uten at transkript ID endres.

Avdelingens websider har en full oversikt over områder som er utelatt pga. [segmentale duplikasjoner](#).

\*\* Transkriptets kodende ekson.

Gen (HGNC symbol)	Gen (HGNC ID)	Transkript	Ekson ikke inkludert*	Ekson**	Fenotype
<a href="#">ALPL</a>	<a href="#">438</a>	NM_000478.4		2-12	Hypophosphatasia, childhood <a href="#">OMIM</a>
<a href="#">ALX3</a>	<a href="#">449</a>	NM_006492.2		1-4	Frontonasal dysplasia 1 <a href="#">OMIM</a>
<a href="#">ALX4</a>	<a href="#">450</a>	NM_021926.3		1-4	{Craniosynostosis 5, susceptibility to} <a href="#">OMIM</a> Parietal foramina 2 <a href="#">OMIM</a> Frontonasal dysplasia 2 <a href="#">OMIM</a>
<a href="#">ASXL1</a>	<a href="#">18318</a>	NM_015338.5		1-12	Bohring-Opitz syndrome <a href="#">OMIM</a>
<a href="#">ATR</a>	<a href="#">882</a>	NM_001184.3		1-47	Seckel syndrome 1 <a href="#">OMIM</a>

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<a href="#">BMP4</a>	<a href="#">1071</a>	NM_001202.3		3-4	Orofacial cleft 11 <a href="#">OMIM</a>
<a href="#">CCBE1</a>	<a href="#">29426</a>	NM_133459.3		1-11	Hennekam lymphangiectasia- lymphedema syndrome 1 <a href="#">OMIM</a>
<a href="#">CDC45</a>	<a href="#">1739</a>	NM_001178010.2		1-19	Meier-Gorlin syndrome 7 <a href="#">OMIM</a>
<a href="#">CEP120</a>	<a href="#">26690</a>	NM_153223.3		2-21	Short-rib thoracic dysplasia 13 with or without polydactyly <a href="#">OMIM</a>
<a href="#">CHD7</a>	<a href="#">20626</a>	NM_017780.3		2-38	CHARGE syndrome <a href="#">OMIM</a>
<a href="#">COL11A1</a>	<a href="#">2186</a>	NM_001854.3		1-67	Marshall syndrome <a href="#">OMIM</a> Fibrochondrogenesis 1 <a href="#">OMIM</a> Stickler syndrome, type II <a href="#">OMIM</a>
<a href="#">COL11A2</a>	<a href="#">2187</a>	NM_080680.2		1-66	Fibrochondrogenesis 2 <a href="#">OMIM</a> Weissenbacher-Zweymuller syndrome <a href="#">OMIM</a> Stickler syndrome, type III <a href="#">OMIM</a> Otospondylomegaepiphyseal dysplasia <a href="#">OMIM</a>
<a href="#">COL2A1</a>	<a href="#">2200</a>	NM_001844.4		1-54	Achondrogenesis, type II or hypochondrogenesis <a href="#">OMIM</a> SMED Strudwick type <a href="#">OMIM</a> Kniest dysplasia <a href="#">OMIM</a> SED congenita <a href="#">OMIM</a> Stickler syndrome, type I <a href="#">OMIM</a> Stickler syndrome, type I, nonsyndromic ocular <a href="#">OMIM</a> Otospondylomegaepiphyseal dysplasia <a href="#">OMIM</a>
<a href="#">COL9A1</a>	<a href="#">2217</a>	NM_001851.4		1-38	Stickler syndrome, type IV <a href="#">OMIM</a>
<a href="#">COL9A2</a>	<a href="#">2218</a>	NM_001852.3		1-32	?Stickler syndrome, type V <a href="#">OMIM</a>
<a href="#">COLEC11</a>	<a href="#">17213</a>	NM_024027.4		2-7	3MC syndrome 2 <a href="#">OMIM</a>

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<a href="#">CTSK</a>	<a href="#">2536</a>	NM_000396.3		2-8	Pycnodysostosis <a href="#">OMIM</a>
<a href="#">CYP26B1</a>	<a href="#">20581</a>	NM_019885.3		1-6	Craniosynostosis with radiohumeral fusions and other skeletal and craniofacial anomalies <a href="#">OMIM</a>
<a href="#">DHODH</a>	<a href="#">2867</a>	NM_001361.4		1-9	Miller syndrome <a href="#">OMIM</a>
<a href="#">DPH1</a>	<a href="#">3003</a>	NM_001383.3		1-12	Developmental delay with short stature, dysmorphic features, and sparse hair <a href="#">OMIM</a>
<a href="#">EDN1</a>	<a href="#">3176</a>	NM_001955.4		1-5	Question mark ears, isolated <a href="#">OMIM</a> Auriculocondylar syndrome 3 <a href="#">OMIM</a>
<a href="#">EDNRA</a>	<a href="#">3179</a>	NM_001957.3		2-8	Mandibulofacial dysostosis with alopecia <a href="#">OMIM</a>
<a href="#">EFNA4</a>	<a href="#">3224</a>	NM_005227.2		1-4	Coronal craniosynostosis <a href="#">PubMed</a>
<a href="#">EFNB1</a>	<a href="#">3226</a>	NM_004429.4		1-5	Craniofrontonasal dysplasia <a href="#">OMIM</a>
<a href="#">EFTUD2</a>	<a href="#">30858</a>	NM_004247.3		2-28	Mandibulofacial dysostosis, Guion-Almeida type <a href="#">OMIM</a>
<a href="#">EIF4A3</a>	<a href="#">18683</a>	NM_014740.3		1-12	Robin sequence with cleft mandible and limb anomalies <a href="#">OMIM</a>
<a href="#">ERF</a>	<a href="#">3444</a>	NM_006494.3		1-4	Craniosynostosis 4 <a href="#">OMIM</a>
<a href="#">ESCO2</a>	<a href="#">27230</a>	NM_001017420.2		2-11	Roberts syndrome <a href="#">OMIM</a>
<a href="#">EYA1</a>	<a href="#">3519</a>	NM_000503.5		3-18	?Otofaciocervical syndrome <a href="#">OMIM</a> Branchiootorenal syndrome 1, with or without cataracts <a href="#">OMIM</a> Branchiootic syndrome 1 <a href="#">OMIM</a> Anterior segment anomalies with or without cataract <a href="#">OMIM</a>
<a href="#">FAM20C</a>	<a href="#">22140</a>	NM_020223.3		1-10	Raine syndrome <a href="#">OMIM</a>

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<a href="#">FAM58A</a>	<a href="#">28434</a>	NM_152274.4		1-5	STAR syndrome <a href="#">OMIM</a>
<a href="#">FBN1</a>	<a href="#">3603</a>	NM_000138.4		2-66	Weill-Marchesani syndrome 2, dominant <a href="#">OMIM</a> Marfan syndrome <a href="#">OMIM</a>
<a href="#">FGFR1</a>	<a href="#">3688</a>	NM_023110.2		2-18	Trigonocephaly 1 <a href="#">OMIM</a> Encephalocraniocutaneous lipomatosis <a href="#">OMIM</a> Pfeiffer syndrome <a href="#">OMIM</a> Osteoglophonic dysplasia <a href="#">OMIM</a> Jackson-Weiss syndrome <a href="#">OMIM</a> Hartsfield syndrome <a href="#">OMIM</a>
<a href="#">FGFR2</a>	<a href="#">3689</a>	NM_000141.4		2-18	Scaphocephaly, maxillary retrusion, and mental retardation <a href="#">OMIM</a> Beare-Stevenson cutis gyrata syndrome <a href="#">OMIM</a> Scaphocephaly and Axenfeld-Rieger anomaly <a href="#">PubMed</a> Apert syndrome <a href="#">OMIM</a> Crouzon syndrome <a href="#">OMIM</a> Saethre-Chotzen syndrome <a href="#">OMIM</a> Antley-Bixler syndrome without genital anomalies or disordered steroidogenesis <a href="#">OMIM</a> Craniosynostosis, nonspecific <a href="#">PubMed</a> Pfeiffer syndrome <a href="#">OMIM</a> Craniofacial-skeletal-dermatologic dysplasia <a href="#">OMIM</a> LADD syndrome <a href="#">OMIM</a> Jackson-Weiss syndrome <a href="#">OMIM</a>
<a href="#">FGFR3</a>	<a href="#">3690</a>	NM_000142.4		2-18	Muenke syndrome <a href="#">OMIM</a> Crouzon syndrome with acanthosis nigricans <a href="#">OMIM</a>
<a href="#">FREM1</a>	<a href="#">23399</a>	NM_144966.5		3-38	Trigonocephaly 2 <a href="#">OMIM</a>
<a href="#">GLI3</a>	<a href="#">4319</a>	NM_000168.5		2-15	Greig cephalopolysyndactyly syndrome <a href="#">OMIM</a>

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<a href="#">GNAI3</a>	<a href="#">4387</a>	NM_006496.3		1-8	Auriculocondylar syndrome 1 <a href="#">OMIM</a>
<a href="#">GNAS</a>	<a href="#">4392</a>	NM_000516.4		1-13	Pseudohypoparathyroidism 1c <a href="#">OMIM</a> Pseudohypoparathyroidism 1b <a href="#">OMIM</a> Pseudohypoparathyroidism 1a <a href="#">OMIM</a> Osseous heteroplasia, progressive <a href="#">OMIM</a> Pseudopseudohypoparathyroidism <a href="#">OMIM</a>
<a href="#">GPC3</a>	<a href="#">4451</a>	NM_004484.3		1-8	Simpson-Golabi-Behmel syndrome, type 1 <a href="#">OMIM</a>
<a href="#">GRHL3</a>	<a href="#">25839</a>	NM_198174.2		1-16	Van der Woude syndrome 2 <a href="#">OMIM</a>
<a href="#">GSC</a>	<a href="#">4612</a>	NM_173849.2		1-3	Short stature, auditory canal atresia, mandibular hypoplasia, skeletal abnormalities <a href="#">OMIM</a>
<a href="#">GTF2E2</a>	<a href="#">4651</a>	NM_002095.4		2-8	Trichothiodystrophy 6, nonphotosensitive <a href="#">OMIM</a>
<a href="#">HNRNPK</a>	<a href="#">5044</a>	NM_031262.2	<a href="#">17</a>	3-17	Au-Kline syndrome <a href="#">OMIM</a>
<a href="#">HUWE1</a>	<a href="#">30892</a>	NM_031407.6		4-84	Mental retardation, X-linked syndromic, Turner type <a href="#">OMIM</a>
<a href="#">IDS</a>	<a href="#">5389</a>	NM_000202.6	<a href="#">2-3</a>	1-9	Mucopolysaccharidosis II <a href="#">OMIM</a>
<a href="#">IDUA</a>	<a href="#">5391</a>	NM_000203.4		1-14	Mucopolysaccharidosis 1h/s <a href="#">OMIM</a> Mucopolysaccharidosis 1h <a href="#">OMIM</a> Mucopolysaccharidosis 1s <a href="#">OMIM</a>
<a href="#">IFT122</a>	<a href="#">13556</a>	NM_052985.3	<a href="#">15-20</a>	1-31	Cranioectodermal dysplasia 1 <a href="#">OMIM</a>
<a href="#">IFT140</a>	<a href="#">29077</a>	NM_014714.3		3-31	Short-rib thoracic dysplasia 9 with or without polydactyly <a href="#">OMIM</a>
<a href="#">IFT43</a>	<a href="#">29669</a>	NM_052873.2		1-8	Cranioectodermal dysplasia 3 <a href="#">OMIM</a>
<a href="#">IHH</a>	<a href="#">5956</a>	NM_002181.3		1-3	Acrocapitofemoral dysplasia <a href="#">OMIM</a>

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<a href="#">IL11RA</a>	<a href="#">5967</a>	NM_001142784.2		2-13	Craniosynostosis and dental anomalies <a href="#">OMIM</a>
<a href="#">IMPAD1</a>	<a href="#">26019</a>	NM_017813.4		1-5	Chondrodysplasia with joint dislocations, GPAPP type <a href="#">OMIM</a>
<a href="#">IRF6</a>	<a href="#">6121</a>	NM_006147.3		3-9	Popliteal pterygium syndrome 1 <a href="#">OMIM</a> van der Woude syndrome <a href="#">OMIM</a>
<a href="#">IRX5</a>	<a href="#">14361</a>	NM_005853.5		1-3	Hamamy syndrome <a href="#">OMIM</a>
<a href="#">JAG1</a>	<a href="#">6188</a>	NM_000214.2		1-26	Alagille syndrome 1 <a href="#">OMIM</a>
<a href="#">KAT6A</a>	<a href="#">13013</a>	NM_006766.3		2-17	Mental retardation, autosomal dominant 32 <a href="#">OMIM</a>
<a href="#">KMT2D</a>	<a href="#">7133</a>	NM_003482.3		1-54	Kabuki syndrome 1 <a href="#">OMIM</a>
<a href="#">KRAS</a>	<a href="#">6407</a>	NM_004985.4	<a href="#">5</a>	2-5	Cardiofaciocutaneous syndrome 2 <a href="#">OMIM</a> Noonan syndrome 3 <a href="#">OMIM</a> Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaic <a href="#">OMIM</a>
<a href="#">LMX1B</a>	<a href="#">6654</a>	NM_002316.3		1-8	Nail-patella syndrome <a href="#">OMIM</a>
<a href="#">LRP5</a>	<a href="#">6697</a>	NM_002335.3	<a href="#">1,3-9</a>	1-23	van Buchem disease, type 2 <a href="#">OMIM</a> Osteosclerosis <a href="#">OMIM</a> Osteoporosis-pseudoglioma syndrome <a href="#">OMIM</a> Osteopetrosis, autosomal dominant 1 <a href="#">OMIM</a>
<a href="#">MASP1</a>	<a href="#">6901</a>	NM_139125.3		1-11	3MC syndrome 1 <a href="#">OMIM</a>
<a href="#">MEGF8</a>	<a href="#">3233</a>	NM_001410.2		1-41	Carpenter syndrome 2 <a href="#">OMIM</a>
<a href="#">MSX1</a>	<a href="#">7391</a>	NM_002448.3		1-2	Orofacial cleft 5 <a href="#">OMIM</a> Ectodermal dysplasia 3, Witkop type <a href="#">OMIM</a>

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<a href="#">MSX2</a>	<a href="#">7392</a>	NM_002449.4	<a href="#">2</a>	1-2	Craniosynostosis 2 <a href="#">OMIM</a>
<a href="#">MYH3</a>	<a href="#">7573</a>	NM_002470.3		3-41	Arthrogryposis, distal, type 8 <a href="#">OMIM</a>
<a href="#">P4HB</a>	<a href="#">8548</a>	NM_000918.3		1-11	Cole-Carpenter syndrome 1 <a href="#">OMIM</a>
<a href="#">PAX1</a>	<a href="#">8615</a>	NM_006192.4		1-5	?Otofaciocervical syndrome 2 <a href="#">OMIM</a>
<a href="#">PHEX</a>	<a href="#">8918</a>	NM_000444.5		1-22	Hypophosphatemic rickets, X-linked dominant <a href="#">OMIM</a>
<a href="#">PLCB4</a>	<a href="#">9059</a>	NM_000933.3		1-36	Auriculocondylar syndrome 2 <a href="#">OMIM</a>
<a href="#">POLR1A</a>	<a href="#">17264</a>	NM_015425.3		1-34	Acrofacial dysostosis, Cincinnati type <a href="#">OMIM</a>
<a href="#">POLR1C</a>	<a href="#">20194</a>	NM_203290.2		1-9	Treacher Collins syndrome 3 <a href="#">OMIM</a> Leukodystrophy, hypomyelinating, 11 <a href="#">OMIM</a>
<a href="#">POLR1D</a>	<a href="#">20422</a>	NM_015972.3		1-2	Treacher Collins syndrome 2 <a href="#">OMIM</a>
<a href="#">POR</a>	<a href="#">9208</a>	NM_000941.2		2-16	Antley-Bixler syndrome with genital anomalies and disordered steroidogenesis <a href="#">OMIM</a>
<a href="#">PVRL1</a>	<a href="#">9706</a>	NM_002855.4		1-6	Orofacial cleft 7 <a href="#">OMIM</a> Cleft lip/palate-ectodermal dysplasia syndrome <a href="#">OMIM</a>
<a href="#">RAB23</a>	<a href="#">14263</a>	NM_183227.2		2-7	Carpenter syndrome <a href="#">OMIM</a>
<a href="#">RECQL4</a>	<a href="#">9949</a>	NM_004260.3		1-22	RAPADILINO syndrome <a href="#">OMIM</a> Baller-Gerold syndrome <a href="#">OMIM</a>
<a href="#">RSPRY1</a>	<a href="#">29420</a>	NM_133368.2		2-15	Spondyloepimetaphyseal dysplasia, Faden-Alkuraya type <a href="#">OMIM</a>
<a href="#">RUNX2</a>	<a href="#">10472</a>	NM_001024630.3		2-9	Cleidocranial dysplasia <a href="#">OMIM</a> Metaphyseal dysplasia with maxillary hypoplasia with or without brachydactyly <a href="#">OMIM</a>

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<a href="#">SALL1</a>	<a href="#">10524</a>	NM_002968.2	<a href="#">2-3</a>	1-3	Townes-Brocks syndrome <a href="#">OMIM</a> Townes-Brocks branchiootorenal-like syndrome <a href="#">OMIM</a>
<a href="#">SALL4</a>	<a href="#">15924</a>	NM_020436.3		1-4	Duane-radial ray syndrome <a href="#">OMIM</a> IVIC syndrome <a href="#">OMIM</a>
<a href="#">SCARF2</a>	<a href="#">19869</a>	NM_153334.6		1-12	Van den Ende-Gupta syndrome <a href="#">OMIM</a>
<a href="#">SEMA3E</a>	<a href="#">10727</a>	NM_012431.2		1-17	?CHARGE syndrome <a href="#">OMIM</a>
<a href="#">SF3B4</a>	<a href="#">10771</a>	NM_005850.4		1-6	Acrofacial dysostosis 1, Nager type <a href="#">OMIM</a>
<a href="#">SH3PXD2B</a>	<a href="#">29242</a>	NM_001017995.2		1-13	Frank-ter Haar syndrome <a href="#">OMIM</a>
<a href="#">SIX1</a>	<a href="#">10887</a>	NM_005982.3		1-2	Branchiootic syndrome 3 <a href="#">OMIM</a>
<a href="#">SIX5</a>	<a href="#">10891</a>	NM_175875.4		1-3	Branchiootorenal syndrome 2 <a href="#">OMIM</a>
<a href="#">SKI</a>	<a href="#">10896</a>	NM_003036.3		1-7	Shprintzen-Goldberg syndrome <a href="#">OMIM</a>
<a href="#">SMO</a>	<a href="#">11119</a>	NM_005631.4		1-12	Curry-Jones syndrome, somatic mosaic <a href="#">OMIM</a> <a href="#">PubMed</a>
<a href="#">SNRPB</a>	<a href="#">11153</a>	NM_003091.3		1-7	Cerebrocostomandibular syndrome <a href="#">OMIM</a>
<a href="#">SON</a>	<a href="#">11183</a>	NM_032195.2		1-7	ZTTK syndrome <a href="#">OMIM</a>
<a href="#">SPECC1L</a>	<a href="#">29022</a>	NM_015330.4	<a href="#">4</a>	3-17	Opitz GBBB syndrome, type II <a href="#">OMIM</a>
<a href="#">STAT3</a>	<a href="#">11364</a>	NM_139276.2		2-24	Hyper-IgE recurrent infection syndrome <a href="#">OMIM</a> Autoimmune disease, multisystem, infantile-onset, 1 <a href="#">OMIM</a>
<a href="#">SUMO1</a>	<a href="#">12502</a>	NM_003352.4		1-5	Orofacial cleft 10 <a href="#">OMIM</a>



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<a href="#">TBX1</a>	<a href="#">11592</a>	NM_080647.1		2-9	Velocardiofacial syndrome <a href="#">OMIM</a> DiGeorge syndrome <a href="#">OMIM</a>
<a href="#">TCF12</a>	<a href="#">11623</a>	NM_207036.1		2-20	Craniosynostosis 3 <a href="#">OMIM</a>
<a href="#">TCOF1</a>	<a href="#">11654</a>	NM_001135243.1		1-26	Treacher Collins syndrome 1 <a href="#">OMIM</a>
<a href="#">TGDS</a>	<a href="#">20324</a>	NM_014305.3		1-12	Catel-Manzke syndrome <a href="#">OMIM</a>
<a href="#">TGFB1</a>	<a href="#">11772</a>	NM_004612.2		1-9	Loeys-Dietz syndrome 1 <a href="#">OMIM</a>
<a href="#">TGFB2</a>	<a href="#">11773</a>	NM_003242.5		1-7	Loeys-Dietz syndrome 2 <a href="#">OMIM</a>
<a href="#">TMCO1</a>	<a href="#">18188</a>	NM_019026.4		1-7	Craniofacial dysmorphism, skeletal anomalies, and mental retardation syndrome <a href="#">OMIM</a>
<a href="#">TP63</a>	<a href="#">15979</a>	NM_003722.4		1-14	Orofacial cleft 8 <a href="#">OMIM</a> Limb-mammary syndrome <a href="#">OMIM</a> Hay-Wells syndrome <a href="#">OMIM</a> Ectrodactyly, ectodermal dysplasia, and cleft lip/palate syndrome 3 <a href="#">OMIM</a> Split-hand/foot malformation 4 <a href="#">OMIM</a> ADULT syndrome <a href="#">OMIM</a> Rapp-Hodgkin syndrome <a href="#">OMIM</a>
<a href="#">TWIST1</a>	<a href="#">12428</a>	NM_000474.3		1	Craniosynostosis 1 <a href="#">OMIM</a> Robinow-Sorauf syndrome <a href="#">OMIM</a> Saethre-Chotzen syndrome <a href="#">OMIM</a> Saethre-Chotzen syndrome with eyelid anomalies <a href="#">OMIM</a>
<a href="#">TXNL4A</a>	<a href="#">30551</a>	NM_006701.3		1-3	Burn-McKeown syndrome <a href="#">OMIM</a>
<a href="#">UBB</a>	<a href="#">12463</a>	NM_001281720.1 <a href="#">2</a>		2	Cleft palate, isolated <a href="#">OMIM</a>
<a href="#">WDR19</a>	<a href="#">18340</a>	NM_025132.3		1-36	Senior-Loken syndrome 8 <a href="#">OMIM</a> ?Short-rib thoracic dysplasia 5 with or without polydactyly <a href="#">OMIM</a> ?Cranioectodermal dysplasia 4 <a href="#">OMIM</a>

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<a href="#">WDR35</a>	<a href="#">29250</a>	NM_001006657.1		1-28	Cranioectodermal dysplasia 2 <a href="#">OMIM</a>
<a href="#">ZEB2</a>	<a href="#">14881</a>	NM_014795.3	<a href="#">10</a>	2-10	Mowat-Wilson syndrome <a href="#">OMIM</a>
<a href="#">ZIC1</a>	<a href="#">12872</a>	NM_003412.3		1-3	Craniosynostosis 6 <a href="#">OMIM</a>