

<b>Gen-symbol</b>	<b>Gename</b>	<b>Erkrankung(en)</b>	<b>OMIM</b>	<b>Gengröße (kb)</b>
ABCC6	ATP-BINDING CASSETTE, SUBFAMILY C, MEMBER 6	Arterial calcification, generalized, of infancy, 2	<a href="#">614473</a>	4,5
		Pseudoxanthoma elasticum	<a href="#">264800</a>	
		Pseudoxanthoma elasticum, forme fruste	<a href="#">177850</a>	
ACSL4	ACYL-CoA SYNTHETASE LONG CHAIN FAMILY, MEMBER 4	Mental retardation, X-linked 63	<a href="#">300387</a>	2,1
AFF2	AF4/FMR2 FAMILY, MEMBER 2 (FMR2)	Mental retardation, X-linked, FRAXE type	<a href="#">309548</a>	3,9
AIFM1	APOPTOSIS-INDUCING FACTOR, MITOCHONDRION-ASSOCIATED, 1 (PDCD8)	Combined oxidative phosphorylation deficiency 6	<a href="#">300816</a>	1,8
		Cowchock syndrome	<a href="#">310490</a>	
AKT1	V-AKT MURINE THYMOMA VIRAL ONCOGENE HOMOLOG 1	Proteus syndrome, somatic	<a href="#">176920</a>	1,4
		Cowden syndrome 6	<a href="#">615109</a>	
AKT3	V-AKT MURINE THYMOMA VIRAL ONCOGENE HOMOLOG 3 (PKBG)	Megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome 2	<a href="#">615937</a>	1,4
AP1S2	ADAPTOR-RELATED PROTEIN COMPLEX 1, SIGMA-2 SUBUNIT	Mental retardation, X-linked syndromic 5	<a href="#">304340</a>	0,5
ARHGEF6	RHO GUANINE NUCLEOTIDE EXCHANGE FACTOR 6 (PIXA)	Mental retardation, X-linked 46	<a href="#">300436</a>	2,3
ARHGEF9	RHO GUANINE NUCLEOTIDE EXCHANGE FACTOR 9 (PEM2)	Epileptic encephalopathy, early infantile, 8	<a href="#">300607</a>	1,6
ARID1A	AT-RICH INTERACTION DOMAIN-CONTAINING PROTEIN 1A (SMARCF1)	Coffin-Siris syndrome 2	<a href="#">614607</a>	6,9
ARID1B	AT-RICH INTERACTION DOMAIN-CONTAINING PROTEIN 1B	Coffin-Siris syndrome 1	<a href="#">135900</a>	6,7
ARX	ARISTALESS-RELATED HOMEBOX, X-LINKED	Epileptic encephalopathy, early infantile, 1	<a href="#">308350</a>	1,7
		Hydranencephaly with abnormal genitalia	<a href="#">300215</a>	
		Lissencephaly, X-linked 2	<a href="#">300215</a>	
		Mental retardation, X-linked 29 and others	<a href="#">300419</a>	
		Partington syndrome	<a href="#">309510</a>	
		Proud syndrome	<a href="#">300004</a>	
ASPA	ASPARTOACYLASE	Canavan disease	<a href="#">271900</a>	0,9
ATP6AP2	ATPase, H+ TRANSPORTING, LYSOSOMAL, ACCESSORY PROTEIN 2	?Mental retardation, X-linked, syndromic, Hedera type	<a href="#">300423</a>	1,1
ATP7A	ATPase, Cu(2+)-TRANSPORTING, ALPHA POLYPEPTIDE	Menkes disease	<a href="#">309400</a>	4,5
		Occipital horn syndrome	<a href="#">304150</a>	
		Spinal muscular atrophy, distal, X-linked 3	<a href="#">300489</a>	
ATRX	ATR-X GENE; HELICASE 2, X-LINKED (XH2)	Alpha-thalassemia/mental retardation syndrome	<a href="#">301040</a>	7,5
		Mental retardation-hypotonic facies syndrome, X-linked	<a href="#">309580</a>	
BCOR	BCL6 COREPRESSOR	Microphthalmia, syndromic 2	<a href="#">300166</a>	5,2
BRAF	V-RAF MURINE SARCOMA VIRAL ONCOGENE HOMOLOG B1	Cardiofaciocutaneous syndrome	<a href="#">115150</a>	2,3
		LEOPARD syndrome 3	<a href="#">613707</a>	
		Noonan syndrome 7	<a href="#">613706</a>	

<b>Gen-symbol</b>	<b>Gename</b>	<b>Erkrankung(en)</b>	<b>OMIM</b>	<b>Gengröße (kb)</b>
BRWD3	BROMODOMAIN- AND WD REPEAT-CONTAINING PROTEIN 3	Mental retardation, X-linked 93	<a href="#">300659</a>	5,4
CASK	CALCIUM/CALMODULIN-DEPENDENT SERINE PROTEIN KINASE (LIN2)	FG syndrome 4	<a href="#">300422</a>	2,8
		Mental retardation and microcephaly with pontine and cerebellar hypoplasia	<a href="#">300749</a>	
		Mental retardation, with or without nystagmus	<a href="#">300422</a>	
CBL	CAS-BR-M MURINE ECOTROPIC RETROVIRAL TRANSFORMING SEQUENCE HOMOLOG	Noonan syndrome-like disorder with or without juvenile myelomonocytic leukemia	<a href="#">613563</a>	2,7
CCND2	CYCLIN D2	Megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome 3	<a href="#">615938</a>	0,8
CDKL5	CYCLIN-DEPENDENT KINASE-LIKE 5 (STK9)	epileptic encephalopathy, early infantile, 2	<a href="#">300672</a>	3,1
CDKN1C	CYCLIN-DEPENDENT KINASE INHIBITOR 1C (KIP2)	Beckwith-Wiedemann syndrome	<a href="#">130650</a>	0,9
		IMAGE syndrome	<a href="#">614732</a>	
CHD7	CHROMODOMAIN HELICASE DNA-BINDING PROTEIN 7	Charge syndrome	<a href="#">214800</a>	9,0
		Hypogonadotropic hypogonadism 5 with or without anosmia	<a href="#">612370</a>	
CNTNAP2	CONTACTIN-ASSOCIATED PROTEIN-LIKE 2; Neurexin 4	Cortical dysplasia-focal epilepsy syndrome	<a href="#">610042</a>	4,0
		Pitt-Hopkins like syndrome 1	<a href="#">610042</a>	
CUL4B	CULLIN 4B	Mental retardation, X-linked, syndromic 15 (Cabezas type)	<a href="#">300354</a>	2,7
DCX	DOUBLECORTIN	Lissencephaly, X-linked	<a href="#">300067</a>	1,3
		Subcortical laminal heteropia, X-linked	<a href="#">300067</a>	
DIS3L2	DIS3 MITOTIC CONTROL, S. CEREVISIAE, HOMOLOG-LIKE 2	Perlman syndrome	<a href="#">267000</a>	2,7
DKC1	DYSKERIN	Dyskeratosis congenita, X-linked	<a href="#">305000</a>	1,5
DLG3	DISCS LARGE, DROSOPHILA, HOMOLOG OF, 3	Mental retardation, X-linked 90	<a href="#">300850</a>	2,5
DNMT3A	DNA METHYLTRANSFERASE 3A	Tatton-Brown-Rahman syndrome	<a href="#">615879</a>	2,2
DYRK1A	DUAL-SPECIFICITY TYROSINE PHOSPHORYLATION-REGULATED KINASE 1A	Mental retardation, autosomal dominant 7	<a href="#">614104</a>	2,3
EHMT1	EUCHROMATIC HISTONE METHYLTRANSFERASE 1	Kleefstra syndrome	<a href="#">610253</a>	2,4
EIF2B5	EUKARYOTIC TRANSLATION INITIATION FACTOR 2B, SUBUNIT 5	Leukoencephalopathy with vanishing white matter	<a href="#">603896</a>	2,2
		Ovarioleukodystrophy	<a href="#">603896</a>	
EZH2	ENHANCER OF ZESTE, DROSOPHILA, HOMOLOG 2, ENX1	Weaver syndrome	<a href="#">277590</a>	2,2
FANCB	FANCB GENE	Fanconi anemia, complementation group B	<a href="#">300514</a>	2,6
FGD1	FYVE, RhoGEF, AND PH DOMAIN-CONTAINING PROTEIN 1	Aarskog-Scott syndrome	<a href="#">305400</a>	2,9
		Mental retardation, X-linked syndromic 16	<a href="#">305400</a>	

<b>Gen-symbol</b>	<b>Gename</b>	<b>Erkrankung(en)</b>	<b>OMIM</b>	<b>Gengröße (kb)</b>
FLNA	FILAMIN A	FG syndrome 2	<a href="#">300321</a>	7,9
		Frontometaphyseal dysplasia	<a href="#">305620</a>	
		Heterotopia, periventricular	<a href="#">300049</a>	
		Melnick-Needles syndrome	<a href="#">309350</a>	
		Otopalatodigital syndrome, type I	<a href="#">311300</a>	
		Otopalatodigital syndrome, type II	<a href="#">304120</a>	
		Terminal osseous dysplasia	<a href="#">300244</a>	
FMR1	FMR1 GENE; FRAGILE X MENTAL RETARDATION PROTEIN; FMRP	Fragile X syndrome	<a href="#">300624</a>	1,9
		Fragile X tremor/ataxia syndrome	<a href="#">300623</a>	
FOXP1	FORKHEAD BOX G1	Rett syndrome, congenital variant	<a href="#">613454</a>	1,5
FTSJ1	FTSJ HOMOLOG 1	Mental retardation, X-linked 9	<a href="#">309549</a>	1,0
GDI1	GDP DISSOCIATION INHIBITOR 1	Mental retardation, X-linked 41	<a href="#">300849</a>	1,3
GFAP	GLIAL FIBRILLARY ACIDIC PROTEIN	Alexander disease	<a href="#">203450</a>	1,3
GK	GLYCEROL KINASE	Glycerol kinase deficiency	<a href="#">307030</a>	1,6
GLI3	GLI-KRUPPEL FAMILY MEMBER 3	Greig cephalopolysyndactyly syndrome	<a href="#">175700</a>	4,7
		Pallister-Hall syndrome	<a href="#">146510</a>	
		Polydactyly, postaxial, types A1 and B	<a href="#">174200</a>	
		Polydactyly, preaxial, type IV	<a href="#">174700</a>	
GNAQ	GUANINE NUCLEOTIDE-BINDING PROTEIN, Q POLYPEPTIDE	Capillary malformations, congenital, 1, somatic, mosaic	<a href="#">163000</a>	1,1
		Sturge-Weber syndrome, somatic, mosaic	<a href="#">185300</a>	
GPC3	GLYPICAN 3	Simpson-Golabi-Behmel syndrome, type 1	<a href="#">312870</a>	1,7
GPSM2	G PROTEIN SIGNALING MODULATOR 2	Chudley-McCullough syndrome	<a href="#">604213</a>	2,1
GRIA3	GLUTAMATE RECEPTOR, IONOTROPIC, AMPA 3	Mental retardation, X-linked 94	<a href="#">300699</a>	2,7
HCCS	HOLOCYTOCHROME C SYNTHASE	Linear skin defects with multiple congenital anomalies 1	<a href="#">309801</a>	0,8
HCFC1	HOST CELL FACTOR C1	Mental retardation, X-linked 3 (methylmalonic acidemia and homocysteinemia, cbIX type )	<a href="#">309541</a>	6,1
HDAC8	HISTONE DEACETYLASE 8	Cornelia de Lange syndrome 5	<a href="#">300882</a>	1,1
		Wilson-Turner syndrome	<a href="#">309585</a>	
HEPACAM	HEPATOCYTE CELL ADHESION MOLECULE	Megalencephalic leukoencephalopathy with subcortical cysts 2A	<a href="#">613925</a>	1,3
		Megalencephalic leukoencephalopathy with subcortical cysts 2B, remitting, with or without mental retardation	<a href="#">613926</a>	
HERC2	HECT DOMAIN AND RCC1-LIKE DOMAIN 2	Mental retardation, autosomal recessive 38	<a href="#">615516</a>	14,5

<b>Gen-symbol</b>	<b>Gename</b>	<b>Erkrankung(en)</b>	<b>OMIM</b>	<b>Gengröße (kb)</b>
HPRT1	HYPOXANTHINE GUANINE PHOSPHORIBOSYLTRANSFERASE 1	Lesch-Nyhan syndrome	<a href="#">300322</a>	0,7
HRAS	V-HA-RAS HARVEY RAT SARCOMA VIRAL ONCOGENE HOMOLOG	Costello syndrome	<a href="#">218040</a>	0,6
		Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaic	<a href="#">163200</a>	
HSD17B10	17-BETA-HYDROXYSTEROID DEHYDROGENASE X	17-beta-hydroxysteroid dehydrogenase X deficiency	<a href="#">300438</a>	0,8
		?Mental retardation, X-linked syndromic 10	<a href="#">300220</a>	
HUWE1	HECT, UBA, AND WWE DOMAINS-CONTAINING PROTEIN 1	Mental retardation, X-linked syndromic, Turner type	<a href="#">300706</a>	13,1
IDS	IDURONATE 2-SULFATASE	Mucopolysaccharidosis II	<a href="#">309900</a>	1,7
IGBP1	IMMUNOGLOBULIN-BINDING PROTEIN 1	Corpus callosum, agenesis of, with mental retardation, ocular coloboma and micrognathia	<a href="#">300472</a>	1,0
IKBKG	INHIBITOR OF KAPPA LIGHT POLYPEPTIDE GENE ENHANCER IN B CELLS, KINASE OF, GAMMA	Ectodermal dysplasia, hypohidrotic, with immune deficiency	<a href="#">300291</a>	1,3
		Ectodermal, dysplasia, anhidrotic, lymphedema and immunodeficiency	<a href="#">300301</a>	
		Immunodeficiency 33	<a href="#">300636</a>	
		Incontinentia pigmenti	<a href="#">308300</a>	
IL1RAPL1	INTERLEUKIN 1 RECEPTOR ACCESSORY PROTEIN-LIKE 1	Mental retardation, X-linked 21/34	<a href="#">300143</a>	2,1
IQSEC2	IQ MOTIF- AND SEC7 DOMAIN-CONTAINING PROTEIN 2	Mental retardation, X-linked 1/78	<a href="#">309530</a>	2,9
KDM5C	LYSINE-SPECIFIC DEMETHYLASE 5C	Mental retardation, X-linked, syndromic, Claes-Jensen type	<a href="#">300534</a>	4,7
KDM6A	LYSINE-SPECIFIC DEMETHYLASE 6A	Kabuki syndrome 2	<a href="#">300867</a>	4,2
KIAA0196	KIAA0196 GENE; Strumpellin	Ritscher-Schinzel syndrome 1	<a href="#">220210</a>	3,5
		Spastic paraplegia 8, autosomal dominant	<a href="#">603563</a>	
KIAA2022	KIAA2022 GENE	Mental retardation, X-linked 98	<a href="#">300912</a>	4,6
KIF7	KINESIN FAMILY MEMBER 7	Acrocallosal syndrome	<a href="#">200990</a>	4,0
		Joubert syndrome 12	<a href="#">200990</a>	
		?Hydroletharus syndrome 2	<a href="#">614120</a>	
KMT2D	LYSINE-SPECIFIC METHYLTRANSFERASE 2D	Kabuki syndrome 1	<a href="#">147920</a>	16,6
KPTN	KAPTIN	Mental retardation, autosomal recessive 41	<a href="#">615637</a>	1,3
KRAS	V-KI-RAS2 KIRSTEN RAT SARCOMA VIRAL ONCOGENE HOMOLOG	Cardiofaciocutaneous syndrome 2	<a href="#">615278</a>	0,6
		Noonan syndrome 3	<a href="#">609942</a>	
		RAS-associated autoimmune leukoproliferative disorder	<a href="#">614470</a>	
		Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaic	<a href="#">163200</a>	

<b>Gen-symbol</b>	<b>Gename</b>	<b>Erkrankung(en)</b>	<b>OMIM</b>	<b>Gengröße (kb)</b>
L1CAM	L1 CELL ADHESION MOLECULE; MIC5	Corpus callosum, partial agenesis of	<a href="#">304100</a>	3,8
		CRASH syndrome	<a href="#">303350</a>	
		Hydrocephalus due to aqueductal stenosis	<a href="#">307000</a>	
		Hydrocephalus with congenital idiopathic intestinal pseudoobstruction	<a href="#">307000</a>	
		Hydrocephalus with Hirschsprung disease	<a href="#">307000</a>	
		MASA syndrome	<a href="#">303350</a>	
LAMP2	LYSOSOME-ASSOCIATED MEMBRANE PROTEIN 2	Danon disease	<a href="#">300257</a>	1,2
MAGT1	MAGNESIUM TRANSPORTER 1	Immunodeficiency, X-linked, with magnesium defect, Epstein-Barr virus infection and neoplasia	<a href="#">300853</a>	1,1
MAOA	MONOAMINE OXIDASE A	Brunner syndrome	<a href="#">300615</a>	1,6
MAP2K1	MITOGEN-ACTIVATED PROTEIN KINASE KINASE 1	Cardiofaciocutaneous syndrome 3	<a href="#">615279</a>	1,2
MAP2K2	MITOGEN-ACTIVATED PROTEIN KINASE KINASE 2	Cardiofaciocutaneous syndrome 4	<a href="#">615280</a>	1,2
MBD5	METHYL-CpG-BINDING DOMAIN PROTEIN 5	Mental retardation, autosomal dominant 1	<a href="#">156200</a>	4,5
MBTPS2	MEMBRANE-BOUND TRANSCRIPTION FACTOR PROTEASE, SITE 2	?Olmsted syndrome, X-linked	<a href="#">300918</a>	1,6
		IFAP syndrome with or without BRESHECK syndrome	<a href="#">308205</a>	
		Keratosis follicularis spinulosa decalvans, X-linked	<a href="#">308800</a>	
MECP2	METHYL-CpG-BINDING PROTEIN 2	Encephalopathy, neonatal severe	<a href="#">300673</a>	1,5
		Mental retardation, X-linked, syndromic 13	<a href="#">300055</a>	
		Rett syndrome	<a href="#">312750</a>	
		Mental retardation, X-linked syndromic, Lubs type	<a href="#">300260</a>	
MED12	MEDIATOR COMPLEX SUBUNIT 12	Lujan-Fryns syndrome	<a href="#">309520</a>	6,5
		Ohdo syndrome, X-linked	<a href="#">300895</a>	
		Opitz-Kaveggia syndrome	<a href="#">305450</a>	
MEF2C	MADS BOX TRANSCRIPTION ENHANCER FACTOR 2, POLYPEPTIDE C	Mental retardation, stereotypic movements, epilepsy, and/or cerebral malformations	<a href="#">613443</a>	1,4
MID1	MIDLINE 1	Opitz GBBB syndrome, type I	<a href="#">300000</a>	2,0
MLC1	MLC1 GENE	Megalencephalic leukoencephalopathy with subcortical cysts	<a href="#">604004</a>	1,1
NAA10	N-ALPHA-ACETYLTRANSFERASE 10, NatA CATALYTIC SUBUNIT	?Microphthalmia, syndromic 1	<a href="#">309800</a>	0,7
		Ogden syndrome	<a href="#">300855</a>	
NDP	NDP GENE; Norrin	Exudative vitreoretinopathy 2, X-linked	<a href="#">305390</a>	0,4
		Norrie disease	<a href="#">310600</a>	
NDUFA1	NADH-UBIQUINONE OXIDOREDUCTASE 1 ALPHA SUBCOMPLEX, 1	Mitochondrial complex I deficiency	<a href="#">252010</a>	0,2

<b>Gen-symbol</b>	<b>Gename</b>	<b>Erkrankung(en)</b>	<b>OMIM</b>	<b>Gengröße (kb)</b>
NF1	NEUROFIBROMIN 1	Neurofibromatosis, type 1	<a href="#">162200</a>	8,5
		Neurofibromatosis-Noonan syndrome	<a href="#">601321</a>	
		Watson syndrome	<a href="#">193520</a>	
NFIX	NUCLEAR FACTOR I/X	Marshall-Smith syndrome	<a href="#">602535</a>	1,3
		Sotos syndrome 2	<a href="#">614753</a>	
NHS	NHS GENE	Nance-Horan syndrome	<a href="#">302350</a>	4,9
NIPBL	NIPPED-B-LIKE	Cornelia-de-Lange syndrome 1	<a href="#">122470</a>	8,4
NLGN4X	NEUROLIGIN 4	Mental retardation, X-linked	<a href="#">300495</a>	2,5
NRAS	NEUROBLASTOMA RAS VIRAL ONCOGENE HOMOLOG	Noonan syndrome 6	<a href="#">613224</a>	0,6
		Schimmelpenning-Feuerstein-Mims syndrome, somatic mosaic	<a href="#">163200</a>	
NRXN1	NEUREXIN I	Pitt-Hopkins-like syndrome 2	<a href="#">614325</a>	1,3
NSD1	NUCLEAR RECEPTOR-BINDING Su-var, ENHANCER OF ZESTE, AND TRITHORAX DOMAIN PROTEIN 1	Sotos syndrome 1	<a href="#">117550</a>	8,1
		Beckwith-Wiedemann syndrome	<a href="#">130650</a>	
NSDHL	NAD(P)H STEROID DEHYDROGENASE-LIKE PROTEIN	CHILD syndrome	<a href="#">308050</a>	1,1
		CK syndrome	<a href="#">300831</a>	
OCRL	OCRL GENE	Dent disease 2	<a href="#">300555</a>	2,7
		Lowe syndrome	<a href="#">309000</a>	
OFD1	OFD1 GENE	Joubert syndrome 10	<a href="#">300804</a>	3,0
		Orofaciodigital syndrome I	<a href="#">311200</a>	
		Simpson-Golabi-Behmel syndrome, type 2	<a href="#">300209</a>	
OPHN1	OLIGOPHRENIN 1	Mental retardation, X-linked, with cerebellar hypoplasia and distinctive facial appearance	<a href="#">300486</a>	2,4
OTC	ORNITHINE CARBAMOYLTRANSFERASE	Ornithine transcarbamylase deficiency	<a href="#">311250</a>	1,1
PAK3	p21 PROTEIN-ACTIVATED KINASE 3	Mental retardation, X-linked 30/47	<a href="#">300558</a>	1,6
PCDH19	PROTOCADHERIN 19	Epileptic encephalopathy, early infantile, 9	<a href="#">300088</a>	3,3
PDHA1	PYRUVATE DEHYDROGENASE, ALPHA-1	Pyruvate dehydrogenase E1-alpha deficiency	<a href="#">312170</a>	1,2
PGK1	PHOSPHOGLYCERATE KINASE 1	Phosphoglycerate kinase 1 deficiency	<a href="#">300653</a>	1,3
PHF6	PHD FINGER PROTEIN 6	Borjeson-Forssman-Lehmann syndrome	<a href="#">301900</a>	1,1
PHF8	PHD FINGER PROTEIN 8	Mental retardation syndrome, X-linked, Siderius type	<a href="#">300263</a>	3,1
PIK3CA	PHOSPHATIDYLINOSITOL 3-KINASE, CATALYTIC, ALPHA	Cowden syndrome 5	<a href="#">615108</a>	3,2
PIK3R2	PHOSPHATIDYLINOSITOL 3-KINASE, REGULATORY SUBUNIT 2	Megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome 1	<a href="#">603387</a>	2,2

<b>Gen-symbol</b>	<b>Gename</b>	<b>Erkrankung(en)</b>	<b>OMIM</b>	<b>Gengröße (kb)</b>
PLP1	PROTEOLIPID PROTEIN 1	Pelizaeus-Merzbacher disease	<a href="#">312080</a>	0,8
		Spastic paraplegia 2, X-linked	<a href="#">312920</a>	
PORCN	PORCUPINE, DROSOPHILA, HOMOLOG OF	Focal dermal hypoplasia	<a href="#">305600</a>	1,4
PQBP1	POLYGLUTAMINE-BINDING PROTEIN 1	Renpenning syndrome	<a href="#">309500</a>	0,8
PRPS1	PHOSPHORIBOSYLPYROPHOSPHATE SYNTHETASE I	Arts syndrome	<a href="#">301835</a>	1,0
		Gout, PRPS-related	<a href="#">300661</a>	
		Phosphoribosylpyrophosphate synthetase superactivity	<a href="#">300661</a>	
PTCH1	PATCHED, DROSOPHILA, HOMOLOG OF, 1	Basal cell nevus syndrome	<a href="#">109400</a>	3,9
		Holoprosencephaly 7	<a href="#">610828</a>	
PTEN	PHOSPHATASE AND TENSIN HOMOLOG	Bannayan-Riley-Ruvalcaba syndrome	<a href="#">153480</a>	1,2
		Cowden syndrome 1	<a href="#">158350</a>	
		Lhermitte-Duclos syndrome	<a href="#">158350</a>	
		Macrocephaly/autism syndrome	<a href="#">605309</a>	
		VATER association with macrocephaly and ventriculomegaly	<a href="#">276950</a>	
PTPN11	PROTEIN-TYROSINE PHOSPHATASE, NONRECEPTOR-TYPE, 11	LEOPARD syndrome 1	<a href="#">151100</a>	1,4
		Metachondromatosis	<a href="#">156250</a>	
		Noonan syndrome 1	<a href="#">163950</a>	
RAB39B	RAS-ASSOCIATED PROTEIN RAB39B	?Waisman syndrome	<a href="#">311510</a>	0,6
		Mental retardation, X-linked 72	<a href="#">300271</a>	
RAD21	RAD21, S. POMBE, HOMOLOG OF	Cornelia de Lange syndrome 4	<a href="#">614701</a>	1,9
RAF1	V-RAF-1 MURINE LEUKEMIA VIRAL ONCOGENE HOMOLOG 1	LEOPARD syndrome 2	<a href="#">611554</a>	1,9
		Noonan syndrome 5	<a href="#">611553</a>	
RBM10	RNA-BINDING MOTIF PROTEIN 10	TARP syndrome	<a href="#">311900</a>	2,8
RNF135	RING FINGER PROTEIN 135	Macrocephaly, macrosomia, facial dysmorphism syndrome	<a href="#">614192</a>	1,3
RPS6KA3	RIBOSOMAL PROTEIN S6 KINASE, 90-KD, 3	Coffin-Lowry syndrome	<a href="#">303600</a>	2,2
		Mental retardation, X-linked 19	<a href="#">300844</a>	
SETD2	SET DOMAIN-CONTAINING PROTEIN 2; HUNTINGTIN-INTERACTING PROTEIN B	Luscan-Lumish syndrome	<a href="#">616831</a>	7,7
SHOC2	SUPPRESSOR OF CLEAR, C. ELEGANS, HOMOLOG OF	Noonan-like syndrome with loose anagen hair	<a href="#">607721</a>	1,6
SHROOM4	SHROOM FAMILY MEMBER 4	?Stocco dos Santos X-linked mental retardation syndrome	<a href="#">300434</a>	4,5
SLC16A2	SOLUTE CARRIER FAMILY 16 (MONOCARBOXYLIC ACID TRANSPORTER), MEMBER 2	Allan-Herndon-Dudley syndrome	<a href="#">300523</a>	1,6

<b>Gen-symbol</b>	<b>Gename</b>	<b>Erkrankung(en)</b>	<b>OMIM</b>	<b>Gengröße (kb)</b>
SLC6A8	SOLUTE CARRIER FAMILY 6 (NEUROTRANSMITTER TRANSPORTER, CREATINE), MEMBER 8	Cerebral creatine deficiency syndrome 1	<a href="#">300352</a>	1,9
SLC9A6	SOLUTE CARRIER FAMILY 9, MEMBER 6	Mental retardation, X-linked syndromic, Christianson type	<a href="#">300243</a>	2,0
SMARCA2	SWI/SNF-RELATED, MATRIX-ASSOCIATED, ACTIN-DEPENDENT REGULATOR OF CHROMATIN, SUBFAMILY A, MEMBER 2	Nicolaides-Baraitser syndrome	<a href="#">601358</a>	4,8
SMARCA4	SWI/SNF-RELATED, MATRIX-ASSOCIATED, ACTIN-DEPENDENT REGULATOR OF CHROMATIN, SUBFAMILY A, MEMBER 4	Coffin-Siris syndrome 4	<a href="#">614609</a>	4,9
SMARCB1	SWI/SNF-RELATED, MATRIX-ASSOCIATED, ACTIN-DEPENDENT REGULATOR OF CHROMATIN, SUBFAMILY B, MEMBER 1	Coffin-Siris syndrome 3	<a href="#">614608</a>	1,2
SMARCE1	SWI/SNF-RELATED, MATRIX-ASSOCIATED, ACTIN-DEPENDENT REGULATOR OF CHROMATIN, SUBFAMILY E, MEMBER 1	Coffin-Siris syndrome 5	<a href="#">616938</a>	1,2
SMC1A	STRUCTURAL MAINTENANCE OF CHROMOSOMES 1A	Cornelia de Lange syndrome 2	<a href="#">300590</a>	3,7
SMC3	STRUCTURAL MAINTENANCE OF CHROMOSOMES 3	Cornelia de Lange syndrome 3	<a href="#">610759</a>	3,7
SMS	SPERMINE SYNTHASE	Mental retardation, X-linked, Snyder-Robinson type	<a href="#">309583</a>	1,1
SOS1	SON OF SEVENLESS, DROSOPHILA, HOMOLOG 1	Noonan syndrome 4	<a href="#">610733</a>	4,0
SOX3	SRY-BOX 3	Mental retardation, X-linked, with isolated growth hormone deficiency	<a href="#">300123</a>	1,3
		Panhypopituitarism, X-linked	<a href="#">312000</a>	
SPRED1	SPROUTY-RELATED EVH1 DOMAIN-CONTAINING PROTEIN 1	Legius syndrome (NF1-like)	<a href="#">611431</a>	1,3
SRPX2	SUSHI REPEAT-CONTAINING PROTEIN, X-LINKED, 2	?Rolandic epilepsy, mental retardation, and speech dyspraxia	<a href="#">300643</a>	1,4
SYN1	SYNAPSIN I	Epilepsy, X-linked, with variable learning disabilities and behavior disorders	<a href="#">300491</a>	2,1
SYNGAP1	SYNAPTIC RAS-GTPase-ACTIVATING PROTEIN 1	Mental retardation, autosomal dominant 5	<a href="#">612621</a>	4,0
SYP	SYNAPTOPHYSIN	Mental retardation, X-linked 96	<a href="#">300802</a>	0,9
TBC1D7	TBC1 DOMAIN FAMILY, MEMBER 7	Macrocephaly/megalencephaly syndrome, autosomal recessive	<a href="#">248000</a>	0,9
TCF4	TRANSCRIPTION FACTOR 4	Pitt-Hopkins syndrome	<a href="#">610954</a>	2,0
THOC2	THO COMPLEX, SUBUNIT 2	Mental retardation, X-linked 12/35	<a href="#">300957</a>	4,8
TIMM8A	TRANSLOCASE OF INNER MITOCHONDRIAL MEMBRANE 8, YEAST, HOMOLOG OF, A	Mohr-Tranebjaerg syndrome	<a href="#">304700</a>	0,3
TSC1	TSC1 GENE	Tuberous sclerosis-1	<a href="#">191100</a>	3,3
		Focal cortical dysplasia, Taylor balloon cell type	<a href="#">607341</a>	
TSC2	TSC2 GENE	Tuberous sclerosis-2	<a href="#">613254</a>	5,4
TSPAN7	TETRASPANIN 7	Mental retardation, X-linked 58	<a href="#">300210</a>	0,8

<b>Gen-symbol</b>	<b>Gename</b>	<b>Erkrankung(en)</b>	<b>OMIM</b>	<b>Gengröße (kb)</b>
UBE2A	UBIQUITIN-CONJUGATING ENZYME E2A	Mental retardation, X-linked syndromic, Nascimento-type	<a href="#">300860</a>	0,5
UBE3A	UBIQUITIN-PROTEIN LIGASE E3A	Angelman syndrome	<a href="#">105830</a>	2,6
UPF3B	UPF3, YEAST, HOMOLOG OF, B	Mental retardation, X-linked, syndromic 14	<a href="#">300676</a>	1,4
WDR45	WD REPEAT-CONTAINING PROTEIN 45	Neurodegeneration with brain iron accululation 5	<a href="#">300894</a>	1,1
ZDHH15	ZINC FINGER DHH15 DOMAIN-CONTAINING PROTEIN 15	?Mental retardation, X-linked 91	<a href="#">300577</a>	1,0
ZDHH9	ZINC FINGER DHH9 DOMAIN-CONTAINING PROTEIN 9	Mental retardation, X-linked syndromic, Raymond type	<a href="#">300799</a>	1,1
ZEB2	ZINC FINGER E BOX-BINDING HOMEBOX 2	Mowat-Wilson syndrome	<a href="#">235730</a>	3,6
ZNF711	ZINC FINGER PROTEIN 711	Mental retardation, X-linked 97	<a href="#">300803</a>	2,3
ZNF81	ZINC FINGER PROTEIN 81	Mental retardation, X-linked 45	<a href="#">300498</a>	2,0