

Humangenetik Algorithmen - Labdia GmbH, Klinische Genetik

Erkrankung	OMIM	Genlocus	OMIM
Achondroplasia	100800	<i>FGFR3</i>	134934
ADA Immundefizienz	102700	<i>ADA</i>	608958
ADAM17		<i>ADAM17</i>	603639
Adrenogenitales Syndrom bei 11-Beta-Hydroxylasemangel	202010	<i>CYP11B1</i>	610613
Adrenogenitales Syndrom bei 3-Beta-Hydroxysteroiddehydrogenasemangel	201810	<i>HSD3B2</i>	613890
Adrenogenitales Syndrom bei 21-Hydroxylasemangel (Schnelltest und Komplettanalyse)	201910	<i>CYP21A2</i>	613815
Alagille Syndrom 1	118450	<i>JAG1</i>	601920
Amyotrophe Lateralsklerose 2	205100	<i>ALS2</i>	606352
Angelman Syndrom	105830	<i>SNRPN</i>	182279
APECED	240300	<i>AIRE</i>	607358
Apert Syndrom	101200	<i>FGFR2</i>	176943
Autismus (WES, 45 Gene)		<i>ALDH5A1/AP1S2/ARX/ATRX/AUTS2/BRAF/CACNA1C/CASK/DKL5/CHD7/CHD8/CNOT3/CNTNAP2/DHCR7/DPP6/EHMT1/FGD1/FOXP1/FOXP2/GNAI1/GRIN2B/HPRT1/KDM5C/L1CAM/MBD5/MECP2/MED12/MEF2C/MID1/NHS/NIPBL/NLGN3/NLGN4X/NRXN1/NSD1/OPHN1/PCDH19/PHF6/PNKP/PQBP1/PTEN/TCF4/UBE3A/ZEB2</i>	
Autoimmunthyroiditis		<i>CTLA4 c.49G>A (rs231775)</i>	123890
Azoospermie, Oligospermie	415000	<i>AZF</i>	415000
Beckwith-Wiedemann Syndrom	130650	<i>H19/KCNQ1OT1</i>	103280/604115
Bernard-Soulier Syndrom	231200	<i>GP1BA/GP1BB/GP9</i>	606672/138720/173515
Blackfan-Diamond Anämie, RPS19 assoziiert	105650	<i>RPS19</i>	603474
Blackfan-Diamond Anämie (WES, 22 Gene; MLPA)		<i>ADA2/GATA1/RPL11/RPL15/RPL26/RPL27/RPL31/RPL35A/RPL36/RPL5/RPS10/RPS15/RPS17/RPS19/RPS24/RPS26/RPS27/RPS27A/RPS28/RPS29/RPS7/TSR2</i>	607575/305371/604175/604174/603704/607526/617415/180468/617893/603634/603632/180535/180472/603474/602412/603701/603702/191343/603685/603633/603658/300945
BOR Syndrom (WES, 3 Gene)	113650	<i>EYA1/SIX5/SIX1</i>	601653/600963/601205
Börjeson-Forssman-Lehmann Syndrom	301900	<i>PHF6</i>	300414
CACP Syndrom	208250	<i>PRG4</i>	604283
Carney Complex Typ 1	160980	<i>PRKAR1A</i>	188830
Charcot-Marie-Tooth Erkrankung Typ 2A	609260	<i>MFN2</i>	608507

Erkrankung	OMIM	Genlocus	OMIM
Charcot-Marie-Tooth Erkrankung Typ 4C	601596	<i>SH3TC2</i>	608206
Charcot-Marie-Tooth Erkrankung Typ 4H	609311	<i>FGD4</i>	611104
Charge Syndrom 1 (WES)	214800	<i>CHD7</i>	608892
chronische Granulomatose (CGD), X gebunden	306400	<i>CYBB</i>	300481
CLL (TP53)		<i>TP53</i>	191170
Congenitale amegakaryozytische Thrombopenie (CAMT)	604498	<i>MPL</i>	159530
Congenitales nephrotisches Syndrom	256300/ 600995/ 256370	<i>NPHS1/NPHS2/WT1</i>	602716/604766/607102
Congenitales nephrotisches Syndrom (WES, 34 Gene)		<i>ACTN4/ANLN/APOL1/ARHGDI1/AVIL/CD2AP/COQ8B/CRB2/DAAM2/DGKE/EMP2/INF2/KANK2/KIRREL1/LAMB2/LMX1B/MAGI2/MYO1E/NOS1AP/NPHS1/NPHS2 ("PDCN")/NUP107/NUP133/NUP160/NUP205/NUP85/NUP93/PAX2/PLCE1/PTPRO/SGPL1/TBC1D8B/TRPC6/WT1</i>	
Cornelia de Lange Syndrom		<i>ANKRD11/BRD4/HDAC8/NIPBL/RAD21/SMC1A/SMC3</i>	
Cowden Syndrom 1	158350	<i>PTEN</i>	601728
Crigler-Najjar Syndrom (Typ I, II)	218800/ 606785	<i>UGT1A1</i>	191740
Crouzon Syndrom	123500	<i>FGFR2</i>	176943
Crouzon Syndrom mit Akanthosis nigricans	612247	<i>FGFR3</i>	134934
CSF3R Exons 14, 17		<i>CSF3R</i>	138971
CVID (TNFRSF13B)	240500	<i>TNFRSF13B</i>	604907
CVID (TNFRSF13C)	240500	<i>TNFRSF13C</i>	606269
Cystische Fibrose	219700	<i>CFTR</i>	602421
Denys-Drash Syndrom	194080	<i>WT1</i>	607102
Diabetes insipidus, zentraler	125700	<i>AVP</i>	192340
Distale renale tubuläre Azidose (DRTA), SLC4A1-assoziiert	179800/ 611590	<i>SLC4A1</i>	109270
Ektodermale Dysplasie (WES, 42 Gene)			
Ektodermale Dysplasiesyndrome, TP63-assoziiert	604292	<i>TP63</i>	603273
Epilepsie (WES, ca. 340 Gene)			
Erythropoietische Protoporphyrurie	177000	<i>FECH</i>	612386
Faktor V Leiden	227400	<i>F5</i>	612309

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Familiäre adenomatöse Polyposis coli 1 und 2 (WES)	175100/ 608456	<i>APC/MUTYH</i>	611731/604933
Familiäre dysalbuminämische Hyperthyroxinämie	615999	<i>ALB</i>	103600
Familiäre Erythrocytose 1	133100	<i>EPOR</i>	133171
Familiäre Granulomatosesyndrome (Blau Syndrom, Early-onset Sarcoidosis)	186580/ 609464	<i>NOD2</i>	605956
Familiäre hypocalciurische Hypercalcämie Typ 1	145980	<i>CASR</i>	601199
Familiäre hypocalciurische Hypercalcämie Typ 2	145981	<i>GNA11</i>	139313
Familiäre hypocalciurische Hypercalcämie Typ 3	600740	<i>AP2S1</i>	602242
Familiärer isolierter Hyperparathyreoidismus	145000	<i>CDC73 (=HRPT2)</i>	607393
Familiäres Mittelmeerfieber	249100	<i>MEFV</i>	608107
Fanconi Anämie (WES, 24 Gene; MLPA)		<i>BLM/BRCA1/BRCA2/BRIP1/ ERCC4/FANCA/FANCB/FANCC/ FANCD2/FANCE/FANCF/FANCG/ FANCI/FANCL/FANCM/LIG1/ MAD2L2/PALB2/RAD51/RAD51C/ RFD3/SLX4/UBE2T/XRCC2</i>	604610/113705/600185/605882/ 133520/607139/300515/613899/ 613984/613976/613897/602956/ 611360/608111/609644/126391/ 604094/610355/179617/602774/ 614151/613278/610538/600375
Fibrodysplasia Ossificans Progressiva	135100	<i>ACVR1</i>	102576
Fragiles X Syndrom	300624	<i>FMR1</i>	309550
Fragiles X Tremor/Ataxie Syndrom	300623	<i>FMR1</i>	309550
Frasier Syndrom	136680	<i>WT1</i>	607102
GATA1 assoziierte Zytopenie		<i>GATA1</i>	305371
GATA2		<i>GATA2</i>	137295
Glukose-6-Phosphat-Dehydrogenasemangel		<i>G6PD</i>	305900
Glykogenose Typ Ib	232220	<i>SLC37A4</i>	602671
Gonadendysgenese (LHCGR)		<i>LHCGR</i>	152790
Gonadendysgenese (NR5A1 (=SF1))		<i>NR5A1 (=SF1)</i>	184757
Gonadendysgenese (SRY)		<i>SRY</i>	480000
Haarzelleukämie (BRAF V600E)		<i>BRAF</i>	164757
Hämochromatose	235200	<i>HFE</i>	613609
Hämoglobinopathie (Grunddiagnostik, Hämoglobin Quantifizierung bei RCE/Verlaufskontrolle und Genetik) - vgl. Thalassämie	604131/ 613985/ 603903/ 141749	<i>HBB/HBA1/HBA2</i>	141900/141800/141850
Hereditäre Albright'sche Osteodystrophie (AHO)/Pseudohypoparathyreoidismus	103580	<i>GNAS</i>	139320

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Hereditäre Pankreatitis	167800	<i>SPINK1/PRSS1/CFTR/CTRC/CASR</i>	167790/276000/ 602421/601405/601199
Holt-Oram Syndrom	142900	<i>TBX5</i>	601620
Hyper-IgD Syndrom	260920	<i>MVK</i>	251170
Hyper-IgE Syndrom, dominant bzw. rezessiv (WES; MLPA)	147060/ 243700	<i>STAT3/DOCK8</i>	102582/611432
Hyper-IgE Syndrom, dominant	147060	<i>STAT3</i>	102582
Hyper-IgE Syndrom, rezessiv	243700	<i>DOCK8</i>	611432
Hyper-IgM Immundefizienz, X-chromosomal	308230	<i>CD40LG</i>	300386
Hyperbilirubinämie Typ 1	237900	<i>UGT1A1</i>	191740
Hypercholesterinämie (WES, 4 Gene)	143890/ 144010/ 603776/ 603813	<i>LDLR/APOB/PCSK9/LDLRAP1</i>	606945/107730/607786/605747
Hyperhomocysteinämie	603174	<i>MTHFR</i>	607093
Hypocalcämie autosomal dominant/Hypoparathyreoidismus	615361	<i>GNA11</i>	139313
Hypochondroplasie	146000	<i>FGFR3</i>	134934
Hypothyreose, Schilddrüsendyshormonogenese	274500	<i>TPO</i>	606765
IL7R Immundefizienz	608971	<i>IL7R</i>	146661
IPEX Syndrom	304790	<i>FOXP3</i>	300292
Kallmann Syndrom (WES, 39 Gene)		u.a. <i>KAL1/FGFR1/PROKR2/ PROK2/CHD7/FGF8</i>	300836/136350/607123/ 607002/608892/600483
Laktoseintoleranz, primäre Form	223100	<i>LCT</i> rs4988235 (-13910T>C), rs182549 (-22018A>G)	601806
Li-Fraumeni Syndrom	151623	<i>TP53</i>	191170
LIG4 Syndrom	606593	<i>LIG4</i>	601837
Lissenzephalie (WES, mind. 15 Gene; MLPA)		u.a. <i>ADGRG1(=GPR56)/ARX/DCX/FKRP/ FKTN/LARGE/LIS1/PAFAH1B1/ POMGnT1/POMT1/POMT2/RELN/ TUBA1A/TUBB2B/VLDLR</i>	604110/300382/300121/606596/ 607440/-/-/601545/ 606822/607423/607439/600514/ 602529/612850/192977
Lissenzephalie Typ 1, autosomal	607432	<i>PAFAH1B1</i>	601545
Lissenzephalie Typ 1, X-chromosomal (Double Cortex Syndrom)	300067	<i>DCX</i>	300121
Lissenzephalie Typ 3, autosomal	611603	<i>TUBA1A</i>	602529
Marfan Syndrom (WES, 4 Gene)		<i>FBN1/TGFB2/TGFBR1/TGFBR2</i>	134797/190220/190181/190182
Mastozytose (KIT D816V)	154800	<i>KIT</i>	164290
MBL2 Defizienz	614372	<i>MBL2</i>	154545

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Methämoglobinämie (Typ I, II)	250800	CYB5R3	613213
Mikrodeletions-, Mikroduplikationssyndrome			
MODY Maturity-onset diabetes of the young (WES, 14 Gene; MLPA)		<i>ABCC8/APPL1/BLK/CEL/ GCK/HNF1A/HNF1B/HNF4A/ INS/KCNJ11/KLF11/NEUROD1/ PAX4/PDX1</i>	600509/604299/191305/114840/ 138079/142410/189907/600281/ 176730/600937/603301/601724/ 167413/600733
MODY Maturity-onset diabetes of the young Typ 2	125851	GCK	138079
MODY Maturity-onset diabetes of the young Typ 3	600496	HNF1A	142410
Morbus Waldenström (MYD88 L265P)	153600	MYD88/(CXCR4)	602170/162643
Muskel Wells Syndrom	191900	NLRP3	606416
Multiple endokrine Neoplasie Typ 1 (MEN1)	131100	MEN1	613733
Multiple endokrine Neoplasie Typ 1 (MEN1)-assoziierte Erkrankungen (WES, 10 Gene) und MLPA		<i>AIP/AP2S1/CASR/CDC73/ CDKN1A/CDKN1B/CDKN2B/CDKN2C/ GNA11/MEN1</i>	605555/602242/601199/607393/ 116899/600778/600431/603369/ 139313/613733
Multiple endokrine Neoplasie Typ 2A (MEN2A)	171400	RET	164761
Multiple endokrine Neoplasie Typ 2B (MEN2B)	162300	RET	164761
Multiple endokrine Neoplasie Typ 4 (MEN4)	610755	CDKN1B	600778
Multiple kartilaginäre Exostosen	133700	EXT1/EXT2	608177/608210
Myeloproliferative Erkrankungen mit Erythrozytose		JAK2	147796
MYH9 assoziierte Makrothrombozytopenien (head bzw tail domain Mut; inkl MLPA)		MYH9	160775
MYH9 assoziierte Makrothrombozytopenien (WES; MLPA)		MYH9	160775
Nijmegen-Chromosomalbruch Syndrom	251260	NBS1	602667
Noonan Syndrom (WES, 21 Gene)	163950	<i>PTPN11/SOS1/KRAS/RAF1/NRAS/ BRAF/RIT1/MAP2K1/SOS2/SHOC2/ CBL/LZTR1/SPRED1/HRAS/MAP2K2/ NF1/RASA2/RRAS/AZML1/RRAS2/ PPP1CB</i>	176876/182530/190070/164760/164790/ 164757/609591/176872/601247/602775/ 165360/600574/609291/190020/601263/ 613113/601589/165090/610627/600098/ 600590
NUDT15 assoziierte Leukopenie	616903	NUDT15	615792
Osteogenesis imperfecta (WES, 14 Gene)		<i>COL1A1/COL1A2/BMP1/CRTAP/ FKBP10/IFITM5/P3H1/PPIB/ SERPINF1/SERPINH1/SP7/SPARC/ TMEM38B/WNT1</i>	120150/120160/112264/605497/ 607063/614757/610339/123841/ 172860/600943/606633/182120/ 611236/164820
Osteopetrosis, autosomal rezessiv bzw. dominant	259700/ 611490/ 166600/ 259720	TCIRG1/CICN7/OSTM1	604592/602727/607649
Pachydermoperiostose	259100	HPGD	601688
Paragangliom 1 (PGL1)	168000	SDHD	602690

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Paragangliom 3 (PGL3)	605373	<i>SDHC</i>	602413
Paragangliom 4 (PGL4)	115310	<i>SDHB</i>	185470
Paroxysmale Dyskinesie (WES, 10 Gene)		<i>ADCY5/CHRNA2/CHRNA4/CHRN2/ KCNMA1/KCNT1/PNKD/PRRT2/ SCN8A/SLC2A1</i>	600293/118502/118504/118507/ 600150/608167/609023/614386/ 600702/138140
Pelizaeus-Merzbacher Erkrankung	312080	<i>PLP1</i>	300401
Pena Shokeir Syndrom Typ I/congenitales myasthenes Syndrom	208150	<i>RAPSN</i>	601592
Pendred Syndrom	274600	<i>SLC26A4</i>	605646
Periodisches Fieber, autosomal dominant (TRAPS)	142680	<i>TNFRSF1A</i>	191190
Periodisches Fieber (WES, 15 Gene)		<i>ELANE/IL1RN/IL36RN/LPIN2/ MEFV/MVK/NLR4/NLRP12/ NLRP3/NOD2/OTULIN/PSMB8/ PSTPIP1/STING1/TNFRSF1A</i>	130130/147679/605507/605519/ 608107/251170/606831/609648/ 606416/605956/615712/177046/ 606347/612374/191190
Peutz-Jeghers Syndrom	175200	<i>STK11</i>	602216
Pfeiffer Syndrom	101600	<i>FGFR2/FGFR1</i>	176943/136350
Phäochromozytom/Paragangliom Whole Exome Sequencing (WES, mind. 20 Gene) und MLPA	171300	u.a. <i>RET/SDHD/SDHB/SDHC/VHL/ SDHA/SDHAF2/MAX/TMEM127/ IDH1/NF1/KIF1B/EGLN1/EPAS1/FH/ EGLN2/GDNF/IDH2/PRKAR1A/HRAS</i>	164761/602690/185470/602413/608537/ 600857/613019/154950/613403/147700/ 613113/605995/606425/603349/136850/ 606424/600837/147650/188830/190020
Polyglobulie (WES, 42 Gene)		<i>ACVRL1, ANK1, BHLHE41, BPGM, CALR, CCND1, CYB5R3, EGLN1, EGLN2, EGLN3, ENG, EPAS1, EPB41, EPB42, EPO, EPOR, FH, GATA1, GFI1B, HBA1, HBA2, HBB, HIF1A, HIF1AN, HIF3A, JAK2, KCNN4, KDM6A, OS9, PIEZO1, PFKM, PKLR, RHAG, SH2B3, SLC30A10, SLC4A1, SPTA1, SPTB, TET2, TET3, VHL, ZNF197</i>	
Prader Willi Syndrom	176270	<i>SNRPN</i>	182279
Premature Ovarian Failure 1 (FMR1)	311360	<i>FMR1</i>	309550
Premature Ovarian Failure 4 (BMP15)	300510	<i>BMP15</i>	300247
Progressive myoklonale Epilepsie des Typs Unverricht Lundborg	254800	<i>CSTB</i>	601145
Prothrombin		<i>F2</i>	176930
Pseudoachondroplasie	177170	<i>COMP</i>	600310
Pseudohypoadosteronismus Typ I	177735	<i>NR3C2 (=MLR)</i>	600983
Pyruvatkinasemangel (PKLR)	266200	<i>PKLR</i>	609712
Pyruvatkinasemangel (KLF1)		<i>KLF1</i>	600599
RAG1 Immundefizienz		<i>RAG1</i>	179615
RAG2 Immundefizienz		<i>RAG2</i>	179616

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Rett (like) Syndrom (WES, 5 Gene; MLPA)		<i>MECP2/CDKL5/FOXP1/MEF2C/NTNG1</i>	300005/300203/164874/600662/608818
Rett Syndrom, MECP2 Duplikationssyndrom	312750/ 300260	<i>MECP2</i>	300005
Rhabdoidtumor Prädispositionssyndrom 1	609322	<i>SMARCB1</i>	601607
Robinow Syndrom, autosomal rezessiv	268310	<i>ROR2</i>	602337
Rubinstein Taybi Syndrom Typ 1	180849	<i>CREBBP</i>	600140
RUNX1	601399	<i>RUNX1</i>	151385
Schilddrüsenhormonresistenz	188570	<i>THRB</i>	190160
SERPINE1 (PAI1; 4G/5G)		<i>SERPINE1</i>	173360
SETBP1 Mutationshotspots im Exon 4		<i>SETBP1</i>	611060
SH2B3-assoziierte Erythrozytose	133100	<i>SH2B3</i>	605093
SHOX-assoziiertes Haploinsuffizienzsyndrom		<i>SHOX</i>	312865
Shwachman-Diamond Syndrom 1	260400	<i>SBDS</i>	607444
SIFD Syndrom	616084	<i>TRNT1</i>	612907
Silver-Russell Syndrom	180860	<i>H19/KCNQ1OT1/ PEG1 (=MEST) (UPD 7)</i>	103280/604115/601029
Simpson-Golabi-Behmel Syndrom 1	312870	<i>GPC3</i>	300037
Smith-Lemli-Opitz Syndrom/Autismus	270400	<i>DHCR7</i>	602858
Sotos Syndrom (WES, 3 Gene)	617169/ 614753/ 117550	<i>APC2/NFIX/NSD1</i>	612034/164005/606681
Sotos Syndrom (NSD1 assoziiert)	117550	<i>NSD1</i>	606681
Subtelomeranalyse			
Syndrom des persistenten Müller-Ganges Typ II	261550	<i>AMHR2</i>	600956
Taubheitsassoziierte distale renale tubuläre Azidose (DRTA)	267300	<i>ATP6V1B1</i>	192132
Thalassämie (Alpha, Beta, Delta-Beta) - vgl. Hämoglobinopathie			
Thiamin-responsive megaloblastische Anämie (TRMA)	249270	<i>SLC19A2</i>	603941
Thrombocytose (CALR Exon 9)	187950	<i>CALR</i>	109091
Thrombocytose (MPL Exon 2-4, 10-11)		<i>MPL</i>	159530
Torsionsdystonie, autosomal dominant	128100	<i>TOR1A (=DYT1)</i>	605204
Torsionsdystonie (WES, 22 Gene)		<i>ANO3/ARSA/ATP1A3/DJ1 ECHS1/GCH1/GNAL/HPCA KMT2B/PINK1/PNKD/PRKN</i>	

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		<i>PRKRA/PRRT2/SGCE/SLC2A1 SPR/TAF1/TH1 THAP1/ TOR1A (=DYT1)/ TUBB4A</i>	
TPMT Defizienz (Allele *2, *3A, *3B, *3C)	610460	<i>TPMT</i>	187680
Transthyretin Amyloidose	176300	<i>TTR</i>	176300
Tumoröse Calcinose, familiär hyperphosphatämisch	211900	<i>FGF23/GALNT3/KL</i>	605380/601756/604824
Tumoröse Calcinose, familiär normophosphatämisch	610455	<i>SAMD9</i>	610456
Uniparentale Disomie 14		<i>MEG3</i>	605636
Vitamin D-abhängige Rachitis Typ I (Vitamin D-1 alpha-Hydroxylasedefizienz)	264700	<i>CYP27B1</i>	609506
Von Hippel Lindau Syndrom	193300	<i>VHL</i>	608537
Wachstumshormoninsensivitätssyndrom	262500	<i>GHR</i>	600946
Wachstumsstörung (GH1)		<i>GH1</i>	139250
Wachstumsstörung (GHRH)		<i>GHRH</i>	139190
Wachstumsstörung (GHRHR)		<i>GHRHR</i>	139191
Wachstumsstörung (HESX1)		<i>HESX1</i>	601802
Wachstumsstörung (IGF1)		<i>IGF1</i>	147440
Wachstumsstörung (IGF1R)		<i>IGF1R</i>	147370
Wachstumsstörung (IGFALS)		<i>IGFALS</i>	601489
Wachstumsstörung (POU1F1)		<i>POU1F1 (=PIT1)</i>	173110
Wachstumsstörung (PROP1)		<i>PROP1</i>	601538
Wachstumsstörung (WES, 12 Gene; MLPA)		<i>GH1/GHR/GHRH/GHRHR/ HESX1/IGF1/IGF1R/IGFALS/ LHX3/LHX4/POU1F1(=PIT1)/PROP1</i>	139250/600946/139190/139191/ 601802/147440/147370/601489/ 600577/602146/173110/601538
WHIM Syndrom	193670	<i>CXCR4</i>	162643
Whole Exome Sequencing (WES)			
Wilms Tumor 1	194070	<i>WT1</i>	607102
Wiskott Aldrich Syndrom	301000	<i>WAS</i>	300392
X-gebundene Agammaglobulinämie	300755	<i>BTK</i>	300300
X-gebundene lymphoproliferative Erkrankung Typ 1 (XLP 1)	308240	<i>SH2D1A</i>	300490
X-gebundene lymphoproliferative Erkrankung Typ 2 (XLP 2)	300635	<i>XIAP</i>	300079
X-gebundene mentale Retardierung		<i>AGTR2/ARHGEF6/GDI1/ARX/DCX/FACL4/ FMR1/FMR2/IL1RAPL1/OPHN1/PAK3/ PQBP1/RPS6KA3/SLC6A8/TM4SF2</i>	

Erkrankung	OMIM	Genlocus	OMIM
X-gebundener renaler Diabetes insipidus	304800	<i>AVPR2</i>	300538
X Inaktivierung		<i>AR/FMR1</i>	313700/309550
X-SCID	300400	<i>IL2RG</i>	308380
ZAP70 Defizienz	269840	<i>ZAP70</i>	176947
Zöliakie (HLA DQ2, DQ8)	212750	<i>HLA (DQ2, DQ8)</i>	146880/604305
Zuckerintoleranz (Laktose-, Fruktoseintoleranz)	223100/ 229600	<i>LCT/ALDOB</i>	603202/612724
Zyklische Neutropenie	162800	<i>ELANE</i>	130130