



Requesting physician:

Patient information:

Request Form Developmental disorders

Cause of examination: diagnostic predictive for familial mutation _____

Clinical information:

Family history:

(Check all that apply)

- Patient clinically affected
- No previous molecular genetic examinations existent
- The following previous molecular genetic examinations have been done:

Date / Time of sampling:

Signature:

Specimen requirements and logistics:

- Patient Consent Form for Genetic Testing according to the German Law and Request Form
- Billing information (Insurance-, Institutional- or Selfpay-Billing)
- 5 ml EDTA blood collection tube labeled with patient name and date of birth

Patient name: _____

DOB: _____

Aicardi-Goutieres-syndrome

ADAR, IFIH1, RNASEH2A, RNASEH2B, RNASEH2C, SAMHD1, TREX1

Autism

ADNP, ADSL, ALDH5A1, AP1S2, ARID1B, ARX, ASH1L, ASXL3, ATRX, AUTS2, BRAF, CACNA1C, CASK, CDKL5, CHD2, CHD7, CHD8, CNOT3, CNTNAP2, CUL3, DHCR7, DPP8, DYRK1A, EHMT1, EIF4E, FGD1, FOXP1, FOXP1, GNAI1, GRIN2B, HPRT1, IL1RAPL1, KATNAL2, KDM5C, KIAA0442, KMT2A, KMT5B, L1CAM, MAGEL2, MAOA, MBD5, MECP2, MED12, MID1, MYT1L, NAA15, NEXMIF, NHS, NIPBL, NLGN4X, NLGN1, NLGN3, NLGN4, NOVA2, NRXN1, NSD1, OPHN1, PCDH19, PHF6, PNKP, POGZ, PQBP1, PTCHD1, PTEN, PTPN11, RAB39B, RAL1, RELN, RPL10, SCN1A, SCN2A, SETD5, SETD1B, SHANK2, SHANK3, SLC9A6, SLC9A9, SMARCB1, SMC1A, SMC3, SYN1, SYNGAP1, TANC2, TBL1XR1, TBR1, TCF4, TMLHE, TRP12, TRRAP, TSC1, TSC2, UBE2A, UBE3A, VAMP2, VPS13B, ZEB2, ZSWIM6

Bardet-Biedl-syndrome

ALMS1, ARL6, BBIP1, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, C8orf37, CCDC28B, CEP164, CEP290, CEP41, IFT172, IFT27, IFT74, KIF7, LZTFL1, MKKS, MKS1, NPHP1, PTHB1, SDCCAG8, TMEM67, TRIM32, TTC21B, TTC8, WDR67

CDG-syndrome

ALG1, ALG11, ALG12, ALG13, ALG2, ALG3, ALG6, ALG9, B4GALT1, CAD, CCDC115, COG1, COG2, COG4, COG5, COG6, COG7, COG8, DDOST, DHDDS, DOLK, DPAGT1, DPM1, DPM2, DPM3, FUT8, GMPPA, MAN1B1, MGAT2, MOGS, MPDU1, MPI, NGLY1, NUS1, PGM1, PMM2, RFT1, SLC35A1, SLC35C1, SLC39A8, SRD5A3, SSR4, STT3A, STT3B, TMEM165, TUSC3,

Coffin-Siris-syndrome

ARID1A, ARID1B, ARID2, DPFG, SMARCA4, SMARCB1, SMARCE1, SOX11, SMARCC2, SMARCD1, SOX4, PHF6, KMT2A, DOCK6, GRIN2B, KMT2D, SHANK3, SMARCA2

Cornelia-de-Lange syndrome

ANKRD11, ASXL1, BRD4, HDAC8, NIPBL, RAD21, SMC1A, SMC3, EP300, TAF1

Cortical brain malformation

ACTB, ACTG1, ADAR, ADGRG1, AKT1, AKT3, ARID1A, ARID1B, ARFGFE2, ARID2, ARX, ASPM, B3GALNT2, CCND2, CDK5, CDK13, CECR1, COL4A1, COL4A2, CSNK2A1, CTC1, DAG1, DCX, DYNC1H1, FKRP, FKTN, FLNA, GPSM2, IFIH1, ISPD, JAM3, KATNB1, KIF1BP, KIF2A, KIF5C, LAMB1, LAMC3, LARGE1, MTOR, NDE1, NEDD4L, NSDHL, OCLN, OSGEP, PAFAH1B1, PEX1, PEX10, PEX11B, PEX12, PEX13, PEX14, PEX16, PEX19, PEX3, PEX5, PEX6, PEX7, PHF6, PIK3CA, PIK3R2, POMGNT1, POMGNT2, POMT1, POMT2, RELN, RMND1, RNASEH2A, RNASEH2B, RNASEH2C, RNASET2, RTTN, RXYLT1, SAMHD1, SMARCA4, SMARCB1, SMO, SMARCE1, SRPX2, TREX1, TUBA1A, TUBB, TUBB2B, TUBB3, TUBA8, TUBG1, VLDLR, WDR62

Craniosynostosis

ALPL, ALX4, ASXL1, CDC45, COLEC11, CTSK, EFN1, ERF, FGFR1, FGFR2, FGFR3, FLNA, GLI3, GNPTAB, IDS, IDUA, IHH, IL11RA, KAT6A, KMT2D, KRAS, MEGF8, MSX2, PHEX, POR, RAB23, RECQL4, RUNX2, SKI, SMAD6, SMO, STAT3, TCF12, TGFB1, TGFB2, TLK2, TWIST1, WDR35, ZEB2, ZIC1

Holoprosencephaly

CDON, DHCR7, DLL1, EYA4, FBXW11, FGF8, FGFR1, GAS1, GLI2, GLI3, PTCH1, SHH, SIX3, SMAD2, TDGF1, TGIF1, ZIC2

Intellectual disability

(Gene panel with 978 genes*)

Joubert-syndrome

AHI1, ARL13B, ARL3, ARMC9, B9D1, B9D2, C2CD3, CC2D2A, CELSR2, CEP104, CEP120, CEP164, CEP190, CEP41, CPLANE1, CSPP1, EXOC8, FAM149B1, HYLS1, IFT172, INPP5E, KIAA0556, KIAA0586, KIAA0753, KIF7, MKS1, NPHP1, OFD1, PDE6D, PDPR, PIBF1, POC1B, RPGRIP1L, SUFU, TCTN1, TCTN2, TCTN3, TMEM107, TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, TTC21B, ZNF423

Kallmann-syndrome

CHD7, FGF8, FGFR1, KAL1, PROKR2, PROKR2

Leukodystrophy und Leukoencephalopathy

AARS1, AARS2, ABCD1, ACOX1, ADAR, AIMP1, AIMP2, ALDH3A2, ARSA, ASPA, BCAP31, CLCN2, COL4A1, CSF1R, CTC1, CYP27A1, DARS1, DARS2, EARS2, EIF2B1, EIF2B2, EIF2B3, EIF2B4, EIF2B5, EPRS1, EXOSC8, FAM126A, FOLR1, FUCA1, GALC, GBE1, GCDH, GFAP, GJA1, GJC2, HEPACAM, HIKESHI, HSD17B4, HSPD1, HTRA1, IFIH1, ISCA2, KCNT1, L2HGDH, LAMA2, LMNB1, MCOLN1, L'MLC1, NAXE, NKX6-2, NOTCH3, PEX1, PEX10, PEX12, PEX13, PEX14, PEX16, PEX19, PEX2, PEX26, PEX3, PEX5, PEX6, PLAA, PLEKHG2, PLP1, POLR1C, POLR3A, POLR3B, POLR3K, PSAP, PYCR2, RARS1, RNASEH2A, RNASEH2B, RNASEH2C, RNASET2, SAMHD1, SCP2, SLC16A2, SLC17A5, SNORD118, SOX10, SPTAN1, STN1, SUMF1, TMEM106B, TREX1, TUB4A, TUBB4A, UFM1, VPS11, ZNHIT3

Lissencephaly

ARX, DCX, FKRP, ISPD, NDE1, NUDC, PAFAH1B1, POMGNT1, POMT1, POMT2, RELN, TK2, TUBA1A, VLDLR

Lysosomal disease

AGA, ARSA, ARSB, CTNS, CTSA, FUCA1, GALC, GALNS, GBA, GLA, GLB1, GM2A, GNTAB, GNPTG, GNS, GUSB, HEXA, HEXB, HGSNAT, HYAL1, IDS, IDUA, LIPA, MAN1B1, MAN2B1, MANBA, MCOLN1, NAGA, NAGLU, NEU1, NPC1, NPC2, PSAP, SGSH, SLC17A5, SMPD1, SUMF1, VPS33A

Macrocephaly

ABCC9, AKT1, AKT3, AMER1, ASPA, BRWD3, CCDC88C, CCDCC22, CDKN1C, CHD8, CUL4B, DIS3L2, DNMT3A, DVL1, DVL3, EIF2B5, EZH2, FOXP1, GCDH, GFAP, GLI3, GPSM2, GPC3, GRIA3, HEPACAM, HERC1, HRAS, HUWE1, IGF2, KIAA0196, KPTN, KRAS, KIF7, LZTR1, L1CAM, MED12, MLC1, MTOR, NDUFA1, NFIB, NFIX, NONO, NRAS, NSD1, OFD1, PHF6, PIGA, PIGN, PIGT, PIGV, PIK3CA, PIK3R2, PPP1CB, PPP2R5D, PTCH1, PTCH2, PTEN, RAB39B, RAF1, RHEB, RIN2, RIT1, RNF135, ROR2, SETD2, SHANK3, SHOC2, SNX14, SOS1, STRADA, SUFU, SYN1, TBC1D7, TMCO1, UPF3B, WASHC5, WNT5A, ZDHHC9

* A detailed gene list can be provided on request.

Patient name: _____ DOB: _____

- Meckel-Gruber syndrome**
AHI1, B9D1, CC2D2A, CEP120, CEP290, CEP55, CSPP1, KIAA0586, KIAA0753, MKS1, NPHP3, RPGRIP1L, TCTN1, TCTN2, TMEM107, TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, TTC21B, TXNDC15, WDPCP
- Microcephaly und pontocerebellar hypoplasia**
AMPD2, ANKLE2, ASNS, ASPM, ATR, CASK, CDK5RAP2, CDK6, CENPE, CENPJ, CEP135, CEP152, CEP63, CHMP1A, CIT, CLP1, COASY, DYRK1A, EXOSC3, EXOSC8, EXOSC9, FOXP1, IER3IP1, KAT6A, KIF11, KIF14, KNL1, MBD5, MCPH1, MECP2, MED17, MFSD2A, NCAPD2, NIN, NSMCE2, NUP37, PCLO, PCNT, PHC1, PLK4, PNKP, PPP1R15B, RAB18, RARS2, RBBP8, SASS6, SEPSECS, SLC25A19, SLC15A46, SLC9A6, STAMBP, STIL, TBC1D23, TOE1, TOP3A, TRAI, TRMT10A, TSEN15, TSEN2, TSEN54, TUBGCP4, TUBGCP6, VPS53, VRK1, WDR62, ZNF335
- Senior-Loken-syndrome**
CEP164, CEP290, INVS, IQCB1, NPHP1, NPHP3, NPHP4, SCLT1, SDCCAG8, TMEM67, TRAF3I91, WDR19, ZNF423
- Skeletal malformation**
(Gene panel with 319 genes)*
- Zellweger-syndrome**
ABCD1, ACOX1, AMACR, HSD17B4, PEX1, PEX10, PEX11B, PEX12, PEX13, PEX14, PEX16, PEX19, PEX2, PEX3, PEX5, PEX6, PEX7, SCP2

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