



Requesting physician:

Patient information:

Request Form Eye diseases / Hearing impairment

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: _____

Eye diseases

- Achromatopsia**
ATF6, CNGA3, CNGB3, GNAT2, PDE6C, PDE6H
- External ophthalmoparesis**
DGUOK, DNA2, MGME1, OPA1, POLG, POLG2, RNASEH1, RRM2B, SLC25A4, TK2, TWNK, TYMP
- Flecked retina disease**
ABCA4, CHM, CYP4V2, EFEMP1, ELOVL4, KCNJ13, OAT, PLA2G5, PROM1, PRPH2, RDH5, RHO, RLBP1, RPE65, RS1, VPS13B
- Glaucoma**
ADAMTS10, ADAMTS17, ASB10, BEST1, COL18A1, CYP1B1, FOXC1, FOXE3, GPATCH3, LOXL1, LTBP2, MYOC, NTF4, OPTN, PAX6, PITX2, SBF2, TEK, WDR36
- Corneal dystrophy**
AGBL1, CHST6, COL17A1, CYP4V2, DCN, GSN, KRT12, KRT3, LOXHD1, MIR184, OVOL2, PAX6, PIKFYVE, PRDM5, SLC4A11, TACSTD2, TCF4, TUBA3D, UBIAD1, VSX1, ZEB1, ZNF469
- Cataract**
ABCN6, ABHD12, ADAMTSL4, AGK, BCOR, BFSP1, BFSP2, CHMP4B, CLPB, COL11A1, COL2A1, COL4A1, COL4A2, CRYAA, CRYAB, CRYBA1, CRYBA4, CRYBB1, CRYBB2, CRYBB3, CRYGB, CRYGC, CRYGD, CRYGS, CTDP1, CYP27A1, CYP51A1, EPG5, EPHA2, ERCC1, ERCC2, ERCC5, ERCC6, EYA1, FAM126A, FOXC1, FOXE3, FTL, FYCO1, GALK1, GALT, GCNT2, GEMIN4, GJA3, GJA8, GLA, HMX1, HSF4, JAM3, LEMD2, LIM2, LONP1, LSS, LTBP2, MAF, MIP, MIR184, MYH9, NDP, NF2, NHS, OCRL, OPA3, P3H2, PAX6, PEX7, PITX2, PITX3, PXDN, RAB18, RAB3GAP1, RAB3GAP2, RECQL4, SC5D, SIL1, SIPA1L3, SIX6, SLC16A12, SLC33A1, TBC1D20, TDRD7, TMEM114, VIM, VSX2, WFS1, WRN
- Leber congenital amaurosis**
AIPL1, ALMS1, CABP4, CEP290, CLUAP1, CNGA3, CRB1, CRX, DTHD1, GUCY2D, IDH3A, IFT140, IMPDH1, IQCB1, KCNJ13, LCA5, LRAT, MERTK, NMNAT1, OTX2, PRPH2, RD3, RDH12, RDH5, ROM1, RPE65, RPGRIP1, SNRNP200, SPATA7, TULP1, USP45
- Retinal dystrophy**
(Gene panel with 161 Genes *)
- Ocular malformation**
ABCB6, ACTB, ACTG1, ALDH1A3, ATOH7, BCOR, BMP4, BMP7, C12orf57, CHD7, CRYBA4, CYP1B1, ERCC1, ERCC2, ERCC5, ERCC6, FOXE3, FOXL2, FRAS1, FREM1, FZD4, GDF3, GDF6, GJA1, GRIP1, HCCS, HESX1, HMX1, MAB21L2, MFRP, NDP, NDUFB11, OCRL, OTX2, PAX2, PAX6, PIGL, PRSS56, PXDN, RAB18, RAB3GAP1, RAB3GAP2, RARB, RAX, RBP4, SALL2, SHH, SIX3, SIX6, SMOC1, SOX1, SOX2, STRA6, TBC1D20, TENM3, TFAP2A, TMEM98, VAX1, VPS13B, VSX2, ZIC2
- Ocular und oculocutaneous albinism**
C10orf11, FRMD7, GPR143, LRMDA, LYST, MC1R, OCA2, SLC24A5, SLC38A8, SLC45A2, TYR, TYRP1
- Optic atrophy**
ACO2, AFG3L2, ANTXR1, ATP1A3, C12orf65, CISD2, DNM1L, FDXR, MCAT, MFN2, OPA1, OPA3, RTN4IP1, SLC25A46, SPG7, SSBP1, TIMM8A, TMEM126A, WFS1, YME1L1
- Retinitis pigmentosa**
ABCA4, ADGRA3, AGBL5, AHI1, ARGEF18, ARL2BP, ARL3, ARL6, BBS1, BBS2, BEST1, C2orf71, C8orf37, CA4, CACNA1F, CDHR1, CEP290, CERKL, CLN3, CLRN1, CNGA1, CNGB1, CRB1, CRX, CQC27, CYP4V2, DHDDS, DHX38, EMC1, EYS, FAM161A, FLVCR1, FSCN2, GNAT1, GNPTG, GUCA1B, GUCY2D, HGSNAT, HK1, IDH3B, IFT140, IFT172, IMPDH1, IMPG2, KIAA1549, KIF11, KIZ, KLHL7, LRAT, MAK, MERTK, MFRP, NEK2, NMNAT1, NR2E3, NRL, PCARE, PDE6A, PDE6B, PDE6G, POMGNT1, POPORS, PRCD, PROM1, PRPF3, PRPF31, PRPF4, PRPF6, PRPF8, PRPH2, RBP3, RBP4, RCBTB1, RDH11, RDH12, REEP6, RGR, RHO, RLBP1, ROM1, RP1, RP1L1, RP2, RP9, RPE65, RPGR, RPGRIP1, SAG, SEMA4A, SLC7A14, SNRNP200, SPATA7, TOPORS, TRNT1, TTC8, TUB, TULP1, USH2A, ZNF408, ZNF513
- Septo-optic dysplasia**
FGFR1, HESX1, OTX2, PROKR2, SOX2, SOX3
- Syndromal albinism**
AP3B1, AP3D1, BLOC1S3, BLOC1S6, DTNBP1, EDN3, EDNRB, EPG5, HPS1, HPS3, HPS4, HPS5, HPS6, KIT, LYST, MITF, MLPH, MYO5A, PAX3, RAB27A, SNAI2, SOX10, TYP
- Usher syndrome**
ABHD12, ADGRV1, ARSG, CDH23, CEP250, CEP78, CIB2, CLRN1, ESPN, HARS1, MYO7A, PCDH15, PDZD7, PEX1, PEX6, USH1C, USH1G, USH2A, WHRN
- Walker-Warburg-syndrome**
B3GALNT2, B4GAT1, DAG1, FKR, FKTN, GMPPB, ISPD, LARGE1, POMGNT1, POMGNT2, POMK, POMT1, POMT2, RXYLT1
- Cone dystrophy**
ABCA4, ADAM9, AIPL1, ALMS1, ATF6, BEST1, C12orf2, C2orf71, C8orf37, CABP4, CACNA1F, CACNA2D4, CDHR1, CEP290, CEP78, CERKL, CFAP140, CNGA3, CNGB3, CNM4, CRB1, CRX, CYP4V2, DRAM2, EYS, GNAT2, GUCA1A, GUCY2D, KCNV2, NMNAT1, NPHP4, PAX6, PCARE, PCYT1A, PDE6C, PDE6H, PITPNM3, POC1B, PROM1, PRPH2, RAB28, RAX2, RBP4, RDH12, RDH5, RGS9, RGS9BP, RIMS1, RPGR, RPGRIP1, SEMA4A, TLL5, TULP1, UNC119, WDR19

* A detailed gene list can be provided on request.

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Hearing impairment

Isolated deafness

ACTG1, ADCY1, BDP1, BSND, CABP2, CCDC50, CD164, CDC14A, CDH23, CEACAM16, CIB2, CLDN14, CLIC5, COCH, COL11A2, COL4A6, CRYM, DCDC2, DIABLO, DIAPH1, DIAPH3, EPS8, EPS8L2, ESPN, ESRRB, EYA4, GIPC3, GJB2, GJB3, GJB6, GPRASP2, GPSM2, GRHL2, GRXCR1, GRXCR2, GSDME, HGF, ILDR1, KARS, KCNQ4, KITLG, LHFPL5, LOXHD1, LRTOMT, MARVELD2, MIR96, MSRB3, MYH14, MYH9, MYO15A, MYO3A, MYO6, MYO7A, NARS2, OSBPL2, OTOA, OTOF, OTOG, OTOGL, P2RX2, PCDH15, PDZD7, PJKV, PNPT1, POU3F4, PRPS1, PTPRQ, RDX, RIPOR2, S1PR2, SERPINB6, SLC17A8, SLC26A4, SLC26A5, SLITRK6, SMPX, STRC, SYNE4, TBC1D24, TECTA, TJP2, TMC1, TMC2, TMEM132E, TMIE, TMPRSS3, TNC, TPRN, TRIOBP, TSPEAR, USH1C, WBP2, WFS1

Syndromal deafness

ABHD12, ADGRV1, AIFM1, ALMS1, ANKH, ATP6V1B1, BCAP31, BCS1L, BSND, C10orf2, CACNA1D, CATSPER2, CD151, CDH23, CDKN1C, CHD7, CHSY1, CIB2, CISD2, CLPP, CLRN1, COL11A1, COL11A2, AOL2A1, COL4A3, COL4A4, COL4A5, COL4A6, COL9A1, COL9A2, DFN3, DIAPH3, DNMT1, EDN3, EDNRB, ERAL1, EXOSC2, EYA1, FGF3, FOXP1, GATA3, GPR98, GPSM2, HARS, HARS2, HOXB1, HSD17B4, KCNE1, KCNJ10, KCNQ1, KITLG, LARS2, MANBA, MITF, MYH9, MYO7A, NDP, NLRP3, PAX3, PCDH15, PDZD7, PEX1, PEX6, POLR1D, SALL1, SEMA3E, SIX1, SIX5, SLC19A2, SLC26A4, SLITRK6, SNAI2, SOX10, SPATA5, TCOF1, TFAP2A, TIMM8A, TWNK, TYP, USH1C, USH1G, USH2A, WFS1, WHRN