



Requesting physician:

Patient information:

Request Form cardiovascular diseases and RASopathy

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: _____

- Arrhythmogenic right ventricular cardiomyopathy (ARVC)**
ANK2, CDH2, DES, DSC2, DSG2, DSP, FLNC, JUP, LMNA, PKP2, PLN, PRDM16, RYR2, TMEM43
- Dilated Cardiomyopathy (DCM)**
ACTC1, ACTN2, ANKRD1, BAG3, CSRP3, DES, DMD, DSG2, DSP, EMD, EYA4, FHL1, HFE, LDB3, LMNA, MYBPC3, MYH6, MYH7, NXN, PLN, PRDM16, PSEN1, PSEN2, RBM20, SCNA5A, SGCD, TAZ, TCAP, TMPO, TNNI3, TNNT2, TPM1, TTN, VCL
- Hypertrophic Cardiomyopathy (HCM)**
ACTC1, ACTN2, ALPK3, ANKRD1, BRAF, CALR3, CSRP3, GAA, GLA, HRAS, JPH2, KLF10, KRAS, LAMP2, LZTR1, MAP2K1, MYBPC3, MYH6, MYH7, MYL2, MYL3, MYLK2, MYOM1, MYO22, MYPN, NPC1, NRAS, NXN, OBSCN, PDLIM3, PHYH, PLN, PRKAG2, PTPN11, RAF1, RIT1, RYR2, SOS1, TCAP, TNNC1, TNNI3, TNNT2, TPM1, TRIM63, TTN, TTR, VCL
- Left ventricular non-compaction Cardiomyopathy (LVNC)**
ABCC9, ACTC1, ACTN2, CASQ2, DMPK, DSP, DTNA, HCN4, LDB3, LMNA, MIB1, MYBPC3, MYH7, PKP2, PLEKHM2, PRDM16, RYR2, SCN5A, TAZ, TNNT2, TPM1
- Restrictive Cardiomyopathy (RCM)**
ABCC6, ACTC1, AGXT, APOA1, BMP5, BMP7, CRYAB, DES, DNAJB6, FHL1, FLNC, GBA, GLA, GRHPR, HAMP, HFE, HJV, HOGA1, IDS, IDUA, LDB3, LMNA, MYBPC3, MYH7, MYL3, MYOT, MYPN, NPC1, NPC2, PNPLA3, SLC40A1, SMPD1, TAZ, TNNC1, TNNI3, TNNT2, TTR, WRN
- Brugada-Syndrome**
ABCC9, CACNA1C, CACNA1D, CACNB2, FGF12, GPD1L, HCN4, KCND2, KCND3, KCNE3, KCNE5, KCNH2, KCNJ8, PKP2, RANGRF, SCN1B, SCN2B, SCN3B
- Catecholaminergic polymorphic ventricular tachycardia (CPVT)**
CALM1, CASQ2, RYR2, TRDN
- Long-QT-Syndrome (LQTS)**
AKAP9, ANK2, CACNA1C, CALM1, CALM2, CAV3, KCNE1, KCNE2, KCNH2, KCNJ2, KCNJ5, KCNQ1, SCN4B, SCN5A, SNTA1
- Short-QT-Syndrome (SQTS)**
CACNA1C, CACNB2, KCNH2, KCNJ2, KCNQ1, SCN5A, SLC4A3
- Isolated congenital heart defect**
ABCC9, ACTA2, ACTC1, ACVR2B, ADAMTS19, CCDC103, CCDC114, CCDC151, CCDC39, CCDC40, CFAP53, CFC1, CITED2, COL1A1, CRELD1, DNAAF3, DNAAF4, ELN, FBN2, FGFR2, FLNA, GATA4, GATA6, GDF1, GJA1, JAG1, LEFTY2, MMP21, MYH11, MYH6, MYH7, NKX2-5, NODAL, NOTCH1, NOTCH2, NR2F2, SALL4, SOS1, TBX5, ZIC3
- Syndromic congenital heart defect**
ABCC9, ACTB, ADNP, AMER1, ARID1A, ASXL1, BBS2, BCOR, BRAF, CBL, CCBE1, CCDC103, CCDC39, CCDC40, CD96, CDK13, CHD4, CHD7, CHST14, CHST3, COL1A1, COL3A1, CREBBP, CRELD1, DHCR7, DNAAF1, DNAAF2, DNAAF3, DNAAF4, DNAH11, DNAH5, DNAI1, DNAI2, DNAL1, EFTUD2, EHMT1, ELN, EP300, EVC, EVC2, FBN2, FGFR2, FLNA, FLNB, FOXC1, FOXC2, FOXF1, GLI3, GPC3, HCCS, HDAC4, HRAS, IFT122, IFT140, INVS, IRX5, JAG1, KANSL1, KDM6A, KMT2A, KMT2D, KRAS, LTBP3, MAP2K1, MAP2K2, MED12, MED13L, MEGF8, MGP, MID1, MKKS, MKS1, NEK1, NEK8, NF1, NFATC1, NIPBL, NME8, NOTCH1, NOTCH2, NPHP3, NRAS, NSD1, OFD1, PEX1, PEX10, PEX12, PEX2, PEX26, PEX5, PKD1, PRKD1, PTPN11, RAB23, RAI1, RBM8A, RIT1, SALL1, SALL4, SH3PXD2B, SHOC2, SKI, SLC2A10, SMAD3, SMAD4, SMARCA2, SMARCA4, SMARCB1, SMARCE1, SMC1A, SOS1, SOX2, SOX9, STRA6, TAB2, TBX1, TBX20, TBX3, TBX5, TFAP2B, TGFB1, TGFB2, UBR1, ZEB2, ZIC3
- RASopathy (whole-panel)**
BRAF, CBL, FGD1, HRAS, KRAS, LZTR1, MAP2K1, MAP2K2, MRAS, NRAS, PPP1CB, PTPN11, RAF1, RIT1, RRAS2, SHOC2, SOS1, SOS2, SPRED1, SPRED2
 - Noonan-Syndrome: *CBL, KRAS, LZTR1, NRAS, PTPN11, RAF1, RASA2, RIT1, RRAS, SHOC2, SOS1, SOS2, MSH2, MSH6*
 - CFC-Syndrome: *BRAF, KRAS, MAP2K1, MAP2K2*
 - Costello-Syndrome: *HRAS*
 - Legius-Syndrome: *SPRED1*
 - LEOPARD-Syndrome: *BRAF, MAP2K1, PTPN11, RAF1*