

General Information

Patient

Surname: _____

First name: _____

Date of birth: _____

Sex (assigned at birth): female male

Gender (if differs from sex assigned at birth):
 man non-binary woman self-described: _____

Material

Blood _____ ml (min. 1-2 ml EDTA-blood)

Dried blood spot cards (at least 5 spots)

DNA _____ µg (min. 1-2 µg DNA, concentr. ≥ 50 ng/µl) DNA-No.: _____

Source material
of extracted DNA: _____ (e.g. EDTA blood, skin biopsy)

Other specimen _____

External ID: _____

Date of sample collection: _____

Samples can be sent by mail in a cardboard box or air cushion envelope. Samples should not be exposed to direct sunlight. Dried blood spot cards can be ordered for free (info@cegat.com).

Sender / Clinic

Surname: _____

First name: _____

Institution: _____

Street: _____

Postcode/City: _____

Country: _____

Phone: _____

Email: _____

VAT: _____
If applicable, please include a VAT number or a copy of your business registration certificate.

Invoice to sender / clinic
 to patient / other (KVA-No.: _____)

Surname: _____

First name: _____

Street: _____

Postcode/City: _____

Country: _____

Email: _____

Declaration of consent

By signing this form, I declare that I have received comprehensive information regarding the genetic background related to the disease in question, as well as the possibilities and limitations of molecular genetic testing. I understand that I have the right to withdraw my consent for genetic analyses.

I have been informed, and agree, that my personal data and the data obtained in the analysis will be recorded, evaluated or stored in an pseudonymized form in scientific databases, and that further, in accordance with data protection and medical confidentiality, the request, or parts thereof, may be transmitted to a specialized cooperating laboratory.

I consent to the re-evaluation of my test results within the data storage period. If significant alterations become apparent, my Physician will be informed by e-mail.

I consent that in addition to the full genetic test as requested, the analysis can be expanded to all pathogenic and likely pathogenic variants (ACMG class 4 and 5) in genes which are related to the indication described for the proband (if applicable, screen for differential diagnosis).

I have been informed, and agree to the electronic storage, processing, use, and transmission of all data collected by CeGaT GmbH.

For more detailed information on data privacy as well as your rights please refer to www.cegat.com/privacy-policy.

Please Note

Our panels are regularly updated to reflect current scientific research. It should therefore be recognized that there is the possibility that the list of genes on the order form may have changed slightly (genes added or removed) by the time the sample is analyzed in the laboratory. By signing this form, the patient accepts that the list of genes actually analyzed may be slightly different from what is currently listed. When NGS is utilized more than the requested genes are sequenced for each sample.

This declaration of consent can be completely or partially withdrawn at any time. I have had sufficient time to consider giving my consent.

I, the referring physician, confirm that I am authorized to request genetic testing for the above-mentioned patient. For predictive testing, I confirm that I am authorized, and that I have fulfilled the requirements, to request this testing. For minors, I declare that I have the consent of all legal guardians.

If the patient did not sign this order form: I, the referring physician, confirm that the patient received genetic counseling and agrees with the genetic testing. The patient's consent has been obtained in writing.

If you do not check these boxes, your answer will be recorded as "No".

I consent to the storage of my genetic material for additional tests and/or quality control (for max. 10 years). Yes No

I consent to the storage of my test results beyond the timespan of 10 years (as required by German law). Yes No

I consent to the pseudonymous storage and use of surplus genetic material and/or test results for scientific research and in scientific literature. Yes No

With regard to secondary findings I would like to be informed:

Yes No

Genetic variation may sometimes be identified, which does not fit within the scope of the requested genetic analysis (so-called secondary findings). The reporting of these variants is limited to pathogenic alterations (ACMG classes 4 and 5) within selected genes, for which a treatment or course of action exists for you or your family (according to the current guidelines of the American College of Medical Genetics and Genomics; details on genes and associated diseases can be found at www.cegat.com/acmg-genes). There is no claim of a comprehensive analysis of this gene set. An absence of secondary findings cannot be used to indicate a reduced disease risk.

Targeted analysis of the ACMG genes according to current recommendations can be requested as "additional analyses".

According to German Genetic Diagnostic Act (GenDG) we will issue the medical report to the counselling physician. Please indicate here the contact email of the counselling physician:

Email: _____

<p>_____ Patient / Legal Guardian (Block letters)</p> <p>X _____ Patient / Legal Guardian (Date, Signature)</p>	<p>_____ Physician (Surname, First name)</p> <p>X _____ Physician (Date, Signature)</p>
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Physician's stamp / Barcode



CLIA CERTIFIED ID: 99D2130225

CeGaT is accredited by DAkKS according to DIN EN ISO 15189:2014, the College of American Pathologists (CAP) and CLIA.

Indication

Analysis type: Proband is affected Proband is NOT affected (predictive testing)

Indication / Suspected diagnosis: _____

Major Clinical Symptoms: _____

Previous genetic testing: _____
 (If performed, please specify test and results)

Transplants (bone marrow, tissue, stem cells) No Yes, (please specify) _____

Please include a copy of all existing reports of your patient.

Pedigree Consanguinity: Yes No Ethnic origin: _____

-  index patient
- not affected
- affected
- known carrier
- deceased
- unrelated parents
- consanguine parents
- unborn child
- abortion, stillborn child
- person of unknown sex
- identical twins (monozygous)
- fraternal twins (dizygous)

Family medical history

Are there other family members who currently have or have had the same or a similar disease as the patient?
 Yes No

If yes, please list the affected family members:

Name (not required)	Relationship to the patient (e.g. mother)	Age of onset	Diagnosis / Symptoms

Request

Request

All genes listed on this order form, and the entire mitochondrial genome, are sequenced in parallel. This allows you to select multiple gene sets, or choose individual genes in addition to your selected gene set. As there is no additional laboratory expenditure, there is only a moderate price increase due to the subsequent analysis and interpretation. We are happy to answer your questions or send you an individual quote. Please contact us at info@cegat.com.

Cardiomyopathy, dilated (50 Genes, HRT-01)

ABCC9, ACTC1, ACTN2, ANKRD1, BAG3, BAG5, CRYAB, CSRP3, DES, DMD, DOLK, DSG2, DSP, EMD, FKTN, FLNC, JPH2, LAMA4, LAMP2, LDB3, LMNA, LMOD2, MYBPC3, MYH6, MYH7, MYPN, NEXN, NKX2-5, PKP2, PLN, PPCS, PRDM16, RAF1, RBM20, RPL3L, RYR2, SCN5A, SDHA, SGCD, SPEG, TAFAZZIN, TCAP, TMEM43, TNNC1, TNNI3, TNNI3K, TNNT2, TPM1, TTN, VCL

Cardiomyopathy, hypertrophic (31 Genes, HRT-02)

ACTC1, ACTN2, ALPK3, CAV3, CSRP3, DES, FHOD3, FLNC, GLA, JPH2, LAMP2, LDB3, MYBPC3, MYH6, MYH7, MYL2, MYL3, MYLK2, MYOZ2, MYPN, NEXN, PLN, PRKAG2, TCAP, TNNC1, TNNI3, TNNT2, TPM1, TRIM63, TTN, VCL

Cardiomyopathies are a common and maybe the primary symptom of the highly variable mitochondrial pathology spectrum. Particularly neonates and early infantile affected with severe cardiomyopathy should consider a thorough analysis for genetic causes of mitochondrial dysfunction. To assign this analysis please refer to our order form "**Metabolic/Mitochondrial Disorders**" → gene set MIT-01 (mtDNA) and MIT-02 (nuclear-encoded).

Left Ventricular Noncompaction Cardiomyopathy (NCCM/LVNC) (13 Genes, HRT-03)

ACTC1, ACTN2, DTNA, HCN4, LDB3, MIB1, MYBPC3, MYH7, PRDM16, TAFAZZIN, TNNT2, TPM1, TTN

Short QT Syndrome (4 Genes, HRT-04)

CACNA1C, KCNH2, KCNJ2, KCNQ1

Long QT Syndrome (14 Genes, HRT-05)

AKAP9, ANK2, CACNA1C, CALM1, CALM2, CALM3, CAV3, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, SCN5A, TRDN

Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy (ARVD/C) (11 Genes, HRT-06)

CDH2, DES, DSC2, DSG2, DSP, FLNC, JUP, LMNA, PKP2, PLN, TMEM43

Brugada Syndrome (8 Genes, HRT-07)

CACNA1C, CACNB2, HCN4, KCND3, KCNH2, SCN1B, SCN5A, TRPM4

Catecholaminergic Polymorphic Ventricular Tachycardia (CPVT); Paroxysmal/Ideopathic Ventricular Fibrillation/Tachycardia (11 Genes, HRT-08)

ANK2, BAG5, CALM1, CALM2, CALM3, CASQ2, KCNJ2, RYR2, SCN5A, TECRL, TRDN

Cardiac Arrhythmias (34 Genes, HRT-17)

AKAP9, ANK2, BAG5, CACNA1C, CACNB2, CALM1, CALM2, CALM3, CASQ2, CAV3, CDH2, DES, DSC2, DSG2, DSP, FLNC, HCN4, JUP, KCND3, KCNE1, KCNE2, KCNH2, KCNJ2, KCNQ1, LMNA, PKP2, PLN, RYR2, SCN1B, SCN5A, TECRL, TMEM43, TRDN, TRPM4

Isolated and Syndromal Congenital Heart Defects (109 Genes, HRT-09)

ABL1, ACTA2, ACTC1, ACVR2B, ADAMTS10, ADAMTS19, ADNP, AFF4, B3GAT3, B3GLCT, CAPN15, CBL, CCDC39, CDK13, CFAP53, CFC1, CHD4, CHD7, CITED2, CREBBP, CRELD1, CTNND1, DHCR7, DNAAF1, DNAAF3, DNAH11, DNAH5, DNAI1, DTNA, EHMT1, ELN, EVC, EVC2, FLNA, FLT4, FOXC1, FOXH1, G6PC3, GATA4, GATA5, GATA6, GDF1, GJA1, GPC3, HOXA1, HRAS, HYAL2, JAG1, KDM6A, KMT2D, KYNU, LZTR1, MAP2K1, MAP2K2, MED12, MEGF8, MEIS2, MID1, MMP21, MYH6, MYH7, NADSYN1, NEK8, NIPBL, NKX2-5, NKX2-6, NODAL, NONO, NOTCH1, NOTCH2, NR2F2, ODAD1, PIK3R2, PKD1L1, PLD1, PPP1CB, PRKACA, PRKACB, PRKD1, PTPN11, RAF1, RBM10, RIT1, ROBO1, ROBO4, ROR2, SALL1, SALL4, SH3PXD2B, SOS1, SOS2, SOX17, SPEN, SPRED2, TAB2, TBX1, TBX20, TBX5, TGDS, TLL1, TRAF7, UBR1, WBP11, WDPCP, ZEB2, ZFPM2, ZIC3, ZMYM2, ZNF699

For genes associated with primary ciliary dyskinesia please refer to our order form "**Ciliopathies (CIL-01)**".

RASopathy (incl. Noonan Syndrome) (22 Genes, HRT-10)

BRAF, CBL, HRAS, KRAS, LZTR1, MAP2K1, MAP2K2, MAPK1, MRAS, NF1, NRAS, PPP1CB, PTPN11, RAF1, RASA2, RIT1, RRAS2, SHOC2, SOS1, SOS2, SPRED1, SPRED2

Aortic Aneurysm / Loeys-Dietz Syndrome / Arterial Tortuosity Syndrome (HRT-11)

Is replaced by or part of **CTD-02: Connective Tissue Diseases** (Cutis laxa, Ehlers-Danlos Syndrome, Marfan Syndrome, Loeys-Dietz Syndrome, Aortic Aneurysm and Differential Diagnoses). Please use the order form "**Connective Tissue Diseases**".

Pulmonary Arterial Hypertension (11 Genes, HRT-15)

ACVRL1, ATP13A3, BMPR2, CAV1, EIF2AK4, ENG, GDF2, KCNK3, KDR, SMAD9, TBX4

Hypercholesterolemia and Primary Hyperlipidemia (12 Genes, HRT-16)

ABCA1, ABCG5, ABCG8, APOA5, APOB, APOC2, APOE, GPIHBP1, LDLR, LDLRAP1, LPL, PCSK9

Request

Additional analyses (additional fees may apply)

HLA-Typing (HLA01)

I would like to receive an additional report stating the HLA alleles (HLA class I (Gene A, B, C) and HLA class II (Gene DPA1, DPB1, DQA1, DQB1, DRB1, DRB3, DRB4, DRB5)).

ACMG genes diagnostics

I would like to be informed of relevant alterations within the list of recommended genes for secondary analysis, according to the current guidelines of the American College of Medical Genetics and Genomics. The analysis is restricted to the sequence data, re-sequencing of regions with poor sequence coverage will not typically be performed. A negative "ACMG genes" report cannot be used to rule out (genetic) disease risk. Additional fees may apply. According to German legislation, predictive tests for minors may not be performed for diseases which have an onset in adulthood. Therefore, some genes will not be analyzed for minors, unless the phenotypic spectrum is within the scope of the primary medical indication of the patient. Details on genes and associated diseases can be found at www.cegat.com/acmg-genes

Pharmacogenetics (PGX)

I would like to receive an additional report analyzing known variants that are involved in the metabolism of pharmaceutical products. Details can be found at www.cegat.com/pgx

For further information and advice please do not hesitate to contact our Diagnostic Support team.

www.cegat.com/diagnostic-support · diagnostic-support@cegat.com · Phone +49 7071 565 44-55