



Patient		Sender / Clinic		
Surname:		Surname:		
First name:		First name:		
Date of birth:		Institution:		
Sex: ☐ male	☐ female	Street:		
Material		Postcode/City:		
☐ Blood MI (min. 1-2 ml EDT.	A-blood)	Country:		
☐ Dried blood spot cards (at least 5 spots)		Phone:		
	concentr. ≥ 50 ng/µl) DNA-No.:	Email:		
Source material	обпости. = 50 пурт) Вто с то	VAT:		
of extracted DNA:	(e.g. EDTA blood, skin biopsy)		de a VAT number or a copy of your busine	ess registration certificate.
☐ Other specimen External ID:		Invoice	☐ to sender / clinic ☐ to patient / other (KVA-No.:)
Date of sample collection:		Surname:		
Samples can be sent by mail in a cardboa	ard box or air cushion envelope. Samples should not spot cards can be ordered for free (info@cegat.com).	First name:		
Declaration of consent		Street:		
	eceived comprehensive information regarding the genetic in, as well as the possibilities and limitations of molecular	Postcode/City:		
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		Country:		
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 resubecome apparent, my Physician will be inforr	Its within the data storage period. If significant alterations ned by e-mail.	•	hese boxes, your answer will	
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 consent to the storage of my genetic material for additional tests and/or quality control (for max. 10 years). I consent to the storage of my test results beyond the timespan of 10 years		
I have been informed, and agree to the electronic storage, processing, use, and transmission of all data		(as required by German law).		☐ Yes ☐ N
collected by CeGaT GmbH. For more detailed information on data privacy as well as your rights please refer to www.cegat.de/en/privacy-policy		I consent to the pseudonymous storage and use of surplus genetic material and/or test results for scientific research and in scientific literature.		
Please Note	was to start the second that and the second to second the second the second to second the second the second to second the second to second the seco	With regard to secondary findings I would like to be informed:		
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.		Genetic variation may sometimes be identified, which does not fit within the scope of the requeste genetic analysis (so-called secondary findings). The reporting of these variants is limited to pathogeni alterations (ACMG classes 4 and 5) within selected genes, for which a treatment or course or action exists for you or your family (according to the current guidelines of the American Colleg of Medical Genetics and Genomics; details on genes and associated diseases can be found a		
	be completely or partially withdrawn at ime to consider giving my consent.	https://www.cegat.com/acmg-	<u>genes/</u>). There is no claim of a comprehe lings cannot be used to indicate a reduced	ensive analysis of this gene se
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.		Targeted analysis of the ACMG genes according to current recommen dations can be requested as "additional analyses".		
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.		According to German Genetic Diagnostic Act (GenDG) we will issue the medical report to th counselling physician. Please indicate here the contact email of the counselling physician:		
S		Email:		
		Physician's stamp	/ Barcode	Deutsche Akkreditierungsste D-ML-13206-01-00
Patient / Legal Guardian (Block letters)	Physician (Surname, First name)			ACCREDITED COLLEGE of AMERICAN PATHOLOGISTS CLIA CERTIFIED ID: 9902130225
X	X			CeGaT is accredited by DAkkS according to
Patient / Legal Guardian (Date, Signature)	Physician (Date, Signature)			DIN EN ISO 15189:2014, the College of American Pathologists (CAP) and CLIA





Analysis type:	☐ Proband is affected ☐ Proband is	s NOT affected (predict	tive testing)		
Indication / Suspected diagnosis	:				
Major Clinical Symptoms:					
Preliminary genetic diagnostics:					
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 index patient not affected index patient index		
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		





Inquiry

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,
- ☐ 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 mitochondriopathy 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/Idiopathic 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)

ÀBCA1, ABCG5, ABCG8, APOA5, APOB, APOC2, APOE, GPIHBP1, LDLR, LDLRAP1, LPL, PCSK9



Inquiry

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 https://www.cegat.com/acmg-genes/ Pharmacogenetics (PGX) (22 genes) ABCG2, CACNA1S, CYP2B6, CYP2C19, CYP2C9, CYP2D6, CYP3A4, CYP3A5, CYP4F2, DPYD, G6PD, HLA-A, HLA-B, IFNL3, MT-RNR1, NUDT15, POR, RYR1, SLCO1B1, TPMT, UGT1A1, VKORC1 I would like to receive an additional report analyzing known variants in 22 genes that are involved in the metabolism of pharmaceutical products.

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