



| Patient | | Sender / Clinic | | | |
|--|------------------------------------|---|--|--|--|
| Surname: | | Surname: | | | |
| First name: | | First name: | | | |
| Date of birth: | | Institution: | | | |
| Sex: □ male □ f | emale | Street: | | | |
| Material | | Postcode/City: | | | |
| ☐ Blood ml (min. 1-2 ml EDTA-blood |)) | Country: | | | |
| ☐ Dried blood spot cards (at least 5 spo | ots) | Phone: | | | |
| □ DNA µg (min. 1-2 µg DNA, concer | ntr. ≥ 50 ng/µI) DNA-No.: | Email: | | | |
| Source material | (a. a. EDTA bland akin birnan) | VAT: | | | |
| of extracted DNA: | | If applicable, please includ | le a VAT number or a copy of your bu | usiness registration certificate. | |
| Other specimen | | Invoice | □ to sender / clinic□ to patient / other (KVA-I | No.:) | |
| Date of sample collection: | | Surname: | | | |
| Samples can be sent by mail in a cardboard box be exposed to direct sunlight. Dried blood spot carbon spot carbon services and the services are services as a service services and the services are services as a service service services are services as a service service services and services are services as a service service services are services as a service service services are services as a service service service services are services as a service service service services as a service service service services are services as a service service service service service services are services as a service service service service service service services are services as a service service service service service service services are services as a service servi | | First name: | | | |
| Declaration of consent | | Street: | | | |
| 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 | | Postcode/City: | | | |
| genetic testing. I understand that I have the right to withdraw my consent for genetic analyses. | | Country: | | | |
| 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. | | Email: | | | |
| I consent to the re-evaluation of my test results with become apparent, my Physician will be informed by | | • | hese boxes, your answer | | |
| 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 have been informed, and agree to the electronic storage, processing, use, and transmission of all data | | I consent to the storage of my test results beyond the timespan of 10 years (as required by German law). | | | |
| collected by CeGaT GmbH. For more detailed information on data privacy as well as your rights please refer to www.cegat.com/privacy-policy/ . | | | us storage and use of surplus genet research and in scientific literature. | etic material Yes No | |
| Please Note | | With regard to secon like to be informed: | dary findings I would | ☐ Yes ☐ No | |
| 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 someti genetic analysis (so-called sea alterations (ACMG classes a action exists for you or your | imes be identified, which does not f condary findings). The reporting of the 4 and 5) within selected genes, for family (according to the current genomics; details on genes and asset | hese variants is limited to pathogeni for which a treatment or course of guidelines of the American Colleg | |
| This declaration of consent can be cany time. I have had sufficient time to | | www.cegat.com/acmg-genes/ |). There is no claim of a comprehe s cannot be used to indicate a reduc | ensive analysis of this gene set. A | |
| 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. | | • | the ACMG genes according the ACMG genes according to the contract the contract and the contract according to the contract and the contract according to the co | • | |
| 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. | | | etic Diagnostic Act (GenDG) we w se indicate here the contact email | | |
| g. | | Email: | | | |
| | | Physician's stamp | / Barcode | DAKKS Deutsche Akkreditierungsstel D-ML-13206-01-00 | |
| Patient / Legal Guardian (Block letters) | Physician (Surname, First name) | | | COLLEGE of AMERICAN PATHOLOGISTS CLIA CERTIFIED ID: 99D2130225 | |
| 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 | |



Indication

| Analysis type: | ☐ Proband is affected | ☐ Proband is | NOT affected (predic | tive testing) | |
|--|---------------------------------|------------------|---------------------------|---------------|--|
| Indication / Suspected diagnosis | s: | | | | |
| | | | | | |
| | | | | | |
| Major Clinical Symptoms: | | | | | |
| major omnour cymptoms. | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Preliminary genetic diagnostics | :: | | | | |
| | | | | | |
| Transplants (bone marrow, tissu | ue, stem cells) 🔲 No | ☐ Yes, (please | specify) | | |
| Please include a copy of all exis | sting reports of your patie | nt. | | | |
| | | | | | |
| Pedigree | Consanguinity: Yes | ☐ No Ethnic | origin: | | |
| | | | | | |
| | | | | | not affected |
| | | | | | ● ■ affected |
| | | | | | • known carrier |
| | | | | ! | |
| | | | | | 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 w | who currently have or have h | ad the same or a | a cimilar dicasca ac th | e nationt? | |
| ☐ Yes ☐ No | no currently have or have he | ad the same of a | a sirillar discase as tir | o patient: | |
| If yes, please list the affected fami | | | | | |
| Name (not required) | Relationship to t (e.g. moth | | Age of onset | Diagnosis / | Symptoms |
| | | | | | |
| | | | | | |
| | | | | | |





The analysis is performed in a stepwise manner. We will contact the referring physician in order to clarify analysis procedures.

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.

- ☐ Parkinson's Disease, autosomal dominant (5 Genes, NDD-01) CHCHD2, GBA, LRRK2, SNCA, VPS35 ☐ Parkinson's Disease, autosomal recessive (11 Genes, NDD-02)
- ATP13A2, DNAJC6, FBXO7, PARK7, PINK1, PLA2G6, PRKN, SLC30A10, SLC6A3, SYNJ1, VPS13C
- ☐ Parkinson's Disease (31 Genes, NDD-05)

ATP13A2, ATP1A3, C19ori12, CHCHD2, DCTN1, DNAJC12, DNAJC6, FBXO7, FTL, GBA, GCH1, GRN, LRRK2, MAPT, PANK2, PARK7, PINK1, PLA2G6, PRKN, PRKRA, PSAP, SLC30A10, SLC39A14, SLC6A3, SNCA, SPR, SYNJ1, TAF1, TH, VPS13C, VPS35

□ Dystonia-plus Syndrome (15 Genes, NDD-07) AÑO3, ATP1A3, BCAP31, DRD2, ECHS1, FTL, GCH1, KIF1C, PRKRA, SGCE, SLC30A10, SPR, TH, TUBB4A, VPS16

☐ Paroxysmal Movement Disorders (15 Genes, NDD-08) ADCY5, ATP1A2, ATP1A3, CACNA1A, DLAT, ECHS1, GĆH1, KCNA1, KCNMA1, PDHA1, PDHX, PNKD, PRRT2, SCN8A, SLC2A1

☐ Dystonia (61 Genes, NDD-10)

ADAR, ADCY5, AFG3L2, ANO3, AOPEP, APTX, ATM, ATP1A2, ATP1A3, ATP7B, BCAP31, C19orf12, CACNA1A, CHMP2B, COASY, DCAF17, DDC, DLAT, DNAJC12, DRD2, ECHS1, EIF2AK2, FA2H, FASTKD2, FBXO7, FTL, GAMT, GCDH, GCH1, GNAL, GNAO1, HPCA, IRF2BPL, KCNMA1, KCTD17, KIF1C, KMT2B, MECR, NKX2-1, PANK2, PLA2G6, PRKN, PRKRA, PRRT2, SCN8A, SGCE, SLC2A1, SLC30A10, SLC39A14, SLC6A3, SPATA5L1, SPR, TAF1, TH, THAP1, TOR1A, TUBB4A, VAC14, VPS13A, VPS16, YY1

☐ Intracerebral Calcification (31 Genes, NDD-24) ADAR, AP1S2, COL4A1, CTC1, CYP2U1, FARSA, FARSB, IFIH1, JAM2, JAM3, LSM11, MYORG, NRROS, OCLN, PDGFB, PDGFRB, RNASEH2A, RNASEH2B, RNASEH2C, RNASET2, RNU7-1, SAMHD1, SLC20A2, SNORD118, STN1, TINF2, TREM2, TREX1, TYROBP, USP18, XPR1

☐ Choreatic Movement Disorders (17 Genes, NDD-13)

HTT, JPH3 repeat analyses are part of our standard procedure.

☐ HTT, JPH3 repeat analyses **not** required.

ADCY5, ATM, CAMK4, FRRS1L, FTL, GM2A, GNAO1, NKX2-1, OPA3, PDE10A, PDE2A, PDHA1, PRNP, RNF216, VAMP2, VPS13A, XK

- ☐ Spinocerebellar Ataxia, autosomal dominant (22 Genes, NDD-25) SCA1, SCA2, SCA3, SCA6, SCA7, SCA17 repeat analyses are part of our standard procedure.
 - □ SCA1, SCA2, SCA3, SCA6, SCA7, SCA17 repeat analyses **not** required. AFG3L2, CACNA1A, CACNA1G, DAB1, ELOVL4, ELOVL5, FAT2, FGF14, GRM1, ITPR1, KCNC3, KCND3, NOP56, PDYN, PPP2R2B, PRKCG, PUM1, SPTBN2, STUB1, TGM6, TMEM240, TTBK2
- □ Cerebellar Ataxia, autosomal recessive, non-syndromic (30 Genes, NDD-26)

FXN repeat analysis is part of our standard procedure.

☐ FXN repeat analysis not required.

ANO10, APTX, ATG7, ATM, COA7, COQ8A, CWF19L1, EXOSC5, GDAP2, GRID2, GRM1, PITRM1, PMPCA, RUBCN, SCYL1, SETX, SLC9A1, SNX14, SPTBN2, STUB1, SYNE1, TDP2, THG1L, TPP1, TTPA, TWNK, VPS13D, VPS41, WWOX, XRCC1

☐ Episodic Ataxia (8 Genes, NDD-30) ATP1A3, CACNA1A, CACNB4, KCNA1, PRRT2, SCN2A, SLC1A3, SLC2A1

☐ Hereditary Ataxia (110 Genes, NDD-14)

SCA1, SCA2, SCA3, SCA6, SCA7, SCA17 repeat analyses and of FXN repeat analysis are part of our standard procedure.

- □ SCA1, SCA2, SCA3, SCA6, SCA7, SCA17 repeat analyses not required.
- ☐ FXN repeat analysis **not** required.

ABCB7, ABHD12, AFG3L2, ANO10, APTX, ATCAY, ATG7, ATM, ATP1A3, ATP8A2, CA8, CACNA1A, CACNA1G, CACNB4, CAMTA1, CAPN1, CLCN2, CLN6, COA7, COQ8A, CP, CTBP1, CWF19L1, CYP27A1, DAB1, DARS2, DNAJC5, DNMT1, EIF2B1, EIF2B2, EIF2B3, EIF2B4, EIF2B5, ELOVL4, ELOVL5, EPM2A, EXOSC5, FAT2, FGF14, FLVCR1, FXN, GDAP2, GFAP, ELOVES, EPMEA, EXOSCS, FAI2, FGF14, FEVERT, FXN, GDAP2, GFRP, GOSR2, GRID2, GRM1, HEXA, HEXB, ITPR1, KCNA1, KCNC3, KCND3, KCNJ10, KCNN2, KIF1C, MARS2, MRE11, NHLRC1, NKX6-2, NOP56, NPC1, NPC2, PDYN, PIK3R5, PITRM1, PLA2G6, PMPCA, PNKP, PNPLA6, POLG, POLR3A, POU4F1, PPP2R2B, PRICKLE1, PRKCG, PRRT2, PUM1, RNF170, RNF216, RUBCN, SACS, SCN2A, SCYL1, SETX, SIL1, SLC1A3, SLC2A1, SLC52A2, SLC52A3, SLC9A1, SNX14, SPG7, SPTBN2, STUB1, SYNE1, TDP2, TGM6, THG1L, TMEM240, TPP1, TTBK2, TTPA, TWNK, VAMP1, VLDLR, VPS13D, VPS41, WDR81, WWOX, XRCC1

□ Dementia (18 Genes, NDD-17)

C9ORF72 repeat analysis is part of our standard procedure.

☐ C9ORF72 repeat analysis not required.

APP, CHCHD10, CHMP2B, CSF1R, GRN, ITM2B, MAPT, NOTCH3, OPTN, PRNP, PSEN1, PSEN2, SQSTM1, TARDBP, TBK1, TREM2, UBQLN2, VCP

Amyotrophic Lateral Sclerosis (ALS) (25 Genes, NDD-18)

C9ORF72 repeat analysis is part of our standard procedure.

☐ C9ORF72 repeat analysis **not** required.

ALS2, ANG, CHCHD10, CHMP2B, DCTN1, FIG4, FUS, GLT8D1, HNRNPA1, KIF5A, MATR3, OPTN, PFN1, SETX, SIGMAR1, SOD1, SPG11, SQSTM1, TARDBP, TBK1, TIA1, TUBA4A, UBQLN2, VAPB, VCP

☐ Hereditary Spastic Paraplegia (HSP), autosomal dominant (14 Genes, NDD-27)

ALDH18A1, ATL1, BSCL2, HSPD1, KIDINS220, KIF1A, KIF5A, NIPA1, REEP1, RTN2, SLC33A1, SPAST, UBAP1, WASHC5

☐ Hereditary Spastic Paraplegia (HSP), autosomal recessive (42 Genes, NDD-28)

AFG3L2, AIMP1, ALDH18A1, ALS2, AP4B1, AP4E1, AP4M1, AP4S1, AP5Z1, ATP13A2, B4GALNT1, CAPN1, CYP2U1, CYP7B1, DDHD1, DDHD2, DSTYK, ENTPD1, ERLIN1, ERLIN2, FA2H, FARS2, GBA2, HACE1, HPDL, KIF1A, KIF1C, KLC2, MAG, MTRFR, NT5C2, PCYT2, PNPLA6, RNF170, SELENOI, SPART, SPG11, SPG21, SPG7, TFG, UCHL1, ZFYVE26

☐ Hereditary Spastic Paraplegia (HSP) (71 Genes, NDD-20)

ABCD1, ABHD16A, AFG3L2, AIMP1, ALDH18A1, ALS2, AP4B1, AP4E1, AP4M1, AP4S1, AP5Z1, ARG1, ATL1, ATP13A2, B4GALNT1, BSCL2, CAPN1, CYP2U1, CYP7B1, DARS1, DDHD1, DDHD2, DSTYK, ENTPD1, ERLIN1, ERLIN2, FA2H, FARS2, GALC, GBA2, GCH1, HACE1, HPDL, HSPD1, KCNA2, KDM5C, KIDINS220, KIF1A, KIF1C, KIF5A, KLC2, L1CAM, MAG, MTRFR, NIPA1, NKX6-2, NT5C2, PCYT2, PLP1, PNPLA6, REEP1, RNF170, RTN2, SACS, SELENOI, SLC16A2, SLC33A1, SPART, SPAST, SPG11, SPG21, SPG7, TECPR2, TFG, TNR, TUBB4A, UBAP1, UCHL1, WASHC5, WDR45B, ZFYVE26

☐ Cerebral Small Vessel Disease (9 Genes, NDD-23)



Inquiry

| APP, COL4A1, COL4A2, COLGALT1, FOXC1, GLA, HTRA1, NOTCH3, TREX1 Neuronal Ceroid Lipofuscinosis (13 Genes, NDD-21) ATP13A2, CLN3, CLN5, CLN6, CLN8, CTSD, CTSF, DNAJC5, GRN, KCTD7, MFSD8, PPT1, TPP1 | AARS1, ÅARS2, ÅBCD1, ACBD5, ACOX1, ADAR, AIMP1, AIMP2, ALDH3A2, ARSA, ASPA, BCAP31, CLCN2, CLDN11, CNP, CSF1R, CTC1, CYP27A1, DARS1, DARS2, DEGS1, EARS2, EIF2AK2, EIF2B1, EIF2B2, EIF2B3, EIF2B4, EIF2B5, EPRS1, FAM126A, GALC, GAN, GBE1, GFAP, GJC2, HEPACAM, HIKESHI, HSD17B4, HSPD1, HTRA1, IFIH1, KARS1, L2HGDH, LMNB1, LSM11, MLC1, NAXD, NAXE, NKX6-2, NOTCH3, OCLN, PLAA. | | | | | |
|---|--|--|--|--|--|--|
| □ Neurodegeneration with Brain Iron Accumulation (NBIA) (10 Genes, NDD-11) ATP13A2, C19orf12, COASY, CP, DCAF17, FA2H, FTL, PANK2, PLA2G6, WDR45 | PLEKHG2, PLP1, POLR1C, POLR3A, POLR3B, POLR3K, PSAP, PYCR2, RAB11B, RARS1, RNASEH2A, RNASEH2B, RNASEH2C, RNASET2, RNU7-1, SAMHD1, SCP2, SLC16A2, SLC17A5, SLC25A12, SNORD118, SOX10, STAT2, STN1, SUMF1, TMEM106B, TMEM63A, TREM2, TREX1, TUBB4A, TYROBP, UFM1, VPS11, ZNHIT3 | | | | | |
| 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) (22 genes) I would like to receive an additional report analyzing known variants in 22 ABCG2, CACNA1S, CYP2B6, CYP2C19, CYP2C9, CYP2D6, CYP3A4, CYP3A5, CSLCO1B1, TPMT, UGT1A1, VKORC1 | | | | | | |
| ☐ Other analyses | | | | | | |
| | | | | | | |

☐ Leukodystrophy (86 Genes, NDD-29)

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 +49707156544-55