



Patient		Sender / Clinic			
Surname:		Surname: _			
First name:		First name: _			
Date of birth:		Institution: _			
Sex: ☐ male ☐	☐ female	Street: _			
Material		Postcode/City: _			
☐ Blood ml (min. 1-2 ml EDTA-b	lood)	Country: _			
☐ Dried blood spot cards (at least 5 spots)		Phone:			
□ DNA μg (min. 1-2 μg DNA, cor	ncentr. ≥ 50 ng/µl) DNA-No.:	Email: _			
Source material of extracted DNA:	(e.g. EDTA blood, skin biopsy)	VAT:	a VAT number or a copy of your business	s registration certifi	cate
☐ Other specimen			u to sender / clinic	5 regionation continu	outo.
External ID:			to patient / other (KVA-No.: _)
Date of sample collection:		Surname: _			
	box or air cushion envelope. Samples should not ot cards can be ordered for free (info@cegat.com).	First name: _			
Declaration of consent	or our do our so ordinate for most (mine@eesgameem).	Street: _			
By signing this form, I declare that I have receibackground related to the disease in question, a	ved comprehensive information regarding the genetic 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: _			
	nymized form in scientific databases, and that further, I confidentiality, the request, or parts thereof, may be pry.	Email: _			
I consent to the re-evaluation of my test results become apparent, my Physician will be informed	within the data storage period. If significant alterations lby e-mail.	•	ese boxes, your answer will l		ıs "No"
I consent that in addition to the full genetic tes	st as requested, the analysis can be expanded to all MG class 4 and 5) in genes which are related to the	quality control (for max. 10 years	,	☐ Yes	□ N
I have been informed, and agree to the electronic	c storage, processing, use, and transmission of all data	(as required by German law).	test results beyond the timespan of 10 years	ears ☐ Yes	□ N
collected by CeGaT GmbH. For more detailed information on data privacy as well as your rights please refer to www.cegat.com/privacy-policy/.			storage and use of surplus genetic mat esearch and in scientific literature.	terial U Yes	□ N
Please Note		With regard to second like to be informed:	ary findings I would	☐ Yes	□ No
that there is the possibility that the list of genes	nt scientific research. It should therefore be recognized on the order form may have changed slightly (genes	Genetic variation may sometime	es be identified, which does not fit withi	in the scope of the	e requeste
	allyzed in the laboratory. By signing this form, the patient may be slightly different from what is currently listed. Hence are sequenced for each sample.	alterations (ACMG classes 4	endary findings). The reporting of these va and 5) within selected genes, for white family (according to the current guideling	ich a treatment or	r course o
	e completely or partially withdrawn at	of Medical Genetics and Gene www.cegat.com/acmg-genes/).	omics; details on genes and associate There is no claim of a comprehensive cannot be used to indicate a reduced dise	ed diseases can b analysis of this ge	e found a
	ized to request genetic testing for the above-mentioned authorized, and that I have fulfilled the requirements, to lave the consent of all legal guardians.	-	he ACMG genes according to ted as "additional analyses"		ommen
If the patient did not sign this order form: I, the	ne referring physician, confirm that the patient received c testing. The patient's consent has been obtained in		c Diagnostic Act (GenDG) we will issu		
9		Email:			
		Physician's stamp /	Barcode		
				DAKKS Deutsch Akkredi	itierungsstel
				D-ML-1	3206-01-00
Patient / Legal Guardian (Block letters)	Physician (Surname, First name)			ACCREDITED)
•	•			CLIA CERTIFIED ID: 99D	
N	Nhysisia:			CeGaT is accredite DAkkS according to	0
Patient / Legal Guardian (Date, Signature)	Physician (Date, Signature)			DIN EN ISO 15189 the College of Ame Pathologists (CAP)	erican



Indication

Analysis type:	☐ Proband is affected	☐ Proband is	NOT affected (predict	tive testing)		
Indication / Suspected diagnosis	<u>.</u>					
and the same of th						
Major Clinical Symptoms:						
Preliminary genetic diagnostics:						
Transplants (bone marrow, tissu	e, stem cells) 🔲 No	☐ Yes, (please	specify)			
Please include a copy of all exis	ting reports of your patier	nt.				
Dodigraa	Concensuinity D Vec	□ No. Ethnic	origin.			
Pedigree	Consanguinity: ☐ Yes	□ NO Ethnic	origin:			
				○ □ not affected		
				affected		
				• known carrier		
				Ø Ø deceased		
				□ unrelated parents		
				Consanguine parents		
				unborn child		
				abortion, stillborn child		
				person of unknown sex		
				identical twins		
				(monozygous)		
				fraternal twins (dizygous)		
				(arr)godo)		
Family medical history						
Are there other family members wh	o currently have or have ha	ad the same or a	similar disease as the	e patient?		
□ Yes □ No						
If yes, please list the affected famil						
Name (not required)	Relationship to the (e.g. moth		Age of onset	Diagnosis / Symptoms		
(iiot i oquii ou)	(0.9011	,				



Medical History

Clinical features					
1. Epileptic seizures	□ No □ Yes; onset?				
	Etiology/Seizure types:				
	Sleep-related No Yes:				
	Further information:				
2. Psychomotor development	□ Progression □ Stagnation □ Regression				
	Intellectual disability No Yes				
	Speech / Language impairment ☐ No ☐ Yes				
	Motor deficits □ No □ Yes				
	Abnormal muscle tone No Yes; type?				
	Acute encephalopathy ☐ No ☐ Yes				
	Cerebellar dysfunction No Yes; onset?				
	Extrapyramidal dysfunction No Yes; onset?				
	Dementia □ No □ Yes; onset?				
	Remarks:				
3. Clinical findings	Dysmorphic features				
	Skin abnormalities No Yes; details:				
	Impaired vision No Yes; onset?				
	Other anomalies:				
4. Head circumference	□ Normal □ Microcephalic □ Macrocephalic Percentile:				
5. MRI	□ Not performed				
	Remarks:				
6. Pregnancy history	Abnormal				
	Bleedings				
	Infection No Yes; details:				
	Medication No Yes; details:				
	Preterm birth No Yes; gestation week?				
	Hypoxia □ No □ Yes; pH umbilical cord?				
	Other noticeable occurrences:				
7. Birth data	Size: Weight: Head circumference:				
	Noticeable problems:				



Medical History & Inquiry

8. Genetic analyses	□ Not performed	☐ Yes (please attach copy of results if patient agrees)			
		Array CGH: No Yes			
		Sequencing: No Yes			
		Other:			
9. Metabolic tests	□ Not performed	☐ Yes (please attach copy of results if patient agrees)			
		Abnormalities:			
		Abitomatities.			
10. Further information					
Inquiry Array-CGH					
☐ Please perform Array-CGH before	re □ Array-CG⊦	I analysis has already been ☐ Array-CGH analysis not re	equired		
Panel Diagnostics	performed	, , ,			
Inquiry – Epilepsy					
individual genes in addition to your se	elected gene set. As there is	nome, are sequenced in parallel. This allows you to select multiple on additional laboratory expenditure, there is only a moderate price your questions or send you an individual quote. Please contact us	increase due to the		
☐ Familial and Idiopathic Epilepsy CACNA1A, CHRNA2, CHRNA4, CH GABRG2, GRIN2A, HCN1, KCNA1, KC MTOR, NPRL2, NPRL3, PCDH19, PI SCN2A, SCN3A, SCN8A, SLC2A1, ST.	HRNB2, DEPDC5, GÁBRA1, G CNMA1, KCNQ2, KCNQ3, KCNT PRRT2, RELN, RORB, SCN1A,	1, LGI1, ARV1, GPAA1, PGAP1, PGAP2, PGAP3, PIGA, PIG	B, PIGC, PIGF, PIGG,		
□ Epileptic Encephalopathy (151 Genes, EPI02) AARS1, ABAT, ACTL6B, ADAM22, ALDH7A1, ALG13, AMT, AP2M1, AP3B2, ATP1A2, ATP1A3, CACNA1A, NOTCH3, PRRT2, SCN1A, SLC1A3, SLC2A1					
ARHGEF9, ARV1, ARX, ATP6V1A, BR CAD, CAMK2A, CAMK2B, CDK19, Cl	CDKL5, CHD2, CLCN4, CNPY3,	CPLX1,			
CUL3, CUX2, CYFIP2, DALRD3, DOCK7, EEF1A2, EIF3F, FGF12,		DNM1, ATAD1, GLRA1, GLRB, SLC6A5			
GABRA1, GABRA2, GABRA5, GAE GAD1, GAMT, GLDC, GLS, GNAO1, (
GRIN2B, GRIN2D, GRM7, GUF1, HC KCNB1, KCNQ2, KCNQ5, KCNT1, K					
MDH2, MECP2, MEF2C, MOCS1, MC NEUROD2, NEXMIF, NTRK2, NUS1,					
PIGA, PIGB, PIGP, PIGQ, PIGS, P PPP2CA, PPP2R1A, PPP2R5D, PPP30	PLCB1, PLPBP, PNKP, PNPO,	POLG,			
ROGDI, RORA, SCN1A, SCN1B, SCI	N2A, SCN3A, SCN8A, SIK1, S	LC12A5,			
SLC13A5, SLC1A2, SLC25A12, SLC SLC6A8, SLC9A6, SMC1A, SPTAN1, S	ST3GAL3, STXBP1, SYNGAP1,	SYNJ1,			
SZT2, TANC2, TBC1D24, TBL1XR1, UBE3A, UGDH, UGP2, WWOX, YWHA		UBA5,			
☐ Progressive Myoclonus Epileps AFG3L2, ASAH1, CERS1, CSTB, EPM		I MNIR?			
NEU1, NHLRC1, PRDM8, PRICKL SLC7A6OS					
☐ CSTB repeat analysis not r Lundborg disease, a slowly progres The most common pathogenic alte expansion in the promotor region w	ssive myoclonus epilepsy) eration in CSTB is a dodecame	r repeat			
■ Neuronal Ceroid Lipofuscinosis ATP13A2, CLN3, CLN5, CLN6, CLN8, MFSD8, PPT1, TPP1		КСТД7,			



Inquiry

Inquiry - Brain Development Disorders

□ Primary Microcephaly and Differential Diagnoses (68 Genes, BRN01)

ANKLE2, ASNS, ASPM, ATR, CDC45, CDC6, CDK5RAP2, CDK6, CDT1,
CENPE, CENPF, CENPJ, CEP135, CEP152, CEP63, CIT, COPB2, CTNNA2,
DNA2, DONSON, DYRK1A, GMNN, KIF11, KIF14, KIF2A, KIF5C, KNL1,
LMNB1, LMNB2, MCM5, MCPH1, MFSD2A, NBN, NCAPD2, NCAPD3, NCAPH,
NIN, NSMCE2, NUP37, ORC1, ORC4, ORC6, PCNT, PHC1, PHGDH, PLK4,
PNKP, PSAT1, PSPH, RBBP8, RNU4ATAC, RRP7A, RTTN, SASS6, STIL,
TRAIP, TRAPPC14, TUBA8, TUBB, TUBB2A, TUBB2B, TUBB3, TUBG1,
TUBGCP4, TUBGCP6, WDFY3, WDR62, ZNF335

■ Neuronal Migration Disorders (76 Genes, BRN02)

ACTB, ACTG1, ADGRG1, AKT3, APC2, ARF1, ARFGEF2, ARX, B3GALNT2, B4GAT1, CCND2, CDK5, CEP85L, COL3A1, COL4A1, COL4A2, CRADD, CRPPA, CTNNA2, DAG1, DCX, DYNC1H1, ERMARD, FAT4, FKRP, FKTN, FLNA, GMPPB, GRIN1, GRIN2B, KATNB1, KIF2A, KIF5C, KIFBP, LAMB1, LAMC3, LARGE1, MACF1, MAP1B, MAST1, NDE1, NEDD4L, OCLN, PAFAH1B1, PI4KA, PIK3CA, PIK3R2, POMGNT1, POMGNT2, POMK, POMT1, POMT2, PRUNE1, RAB18, RAB3GAP1, RAB3GAP2, RAC3, RELN, RTTN, RXYLT1, SNAP29, STAT2, TBC1D20, TMTC3, TSC1, TSC2, TUBA14, TUBB, TUBB2A, TUBB2B, TUBB3, TUBG1, TUBGCP2, VLDLR, WDR62, WDR81

☐ Holoprosencephaly Spectrum (15 Genes, BRN03)

CDON, CNOT1, DHCR7, DISP1, DLL1, FGF8, FGFR1, GLI2, PTCH1, SHH, SIX3, STAG2, TDGF1, TGIF1, ZIC2

☐ Pontocerebellar Hypoplasia (24 Genes, BRN14)

AMPD2, CASK, CDC40, CHMP1A, CLP1, COASY, EXOSC1, EXOSC3, EXOSC8, EXOSC9, PCLO, PPIL1, RARS2, SEPSECS, SLC25A46, TBC1D23, TOE1, TSEN15, TSEN2, TSEN34, TSEN54, VPS51, VPS53, VRK1

□ Joubert Syndrome (43 Genes, BRN07)

AHI1, ARL13B, ARL3, ARMC9, B9D1, B9D2, C2CD3, CC2D2A, CEP104, CEP120, CEP164, CEP290, CEP41, CPLANE1, CSPP1, FAM149B1, HYLS1, IFT172, INPP5E, KATNIP, KIAA0586, KIAA0753, KIF7, MKS1, NPHP1, OFD1, PDE6D, PIBF1, POC1B, RPGRIP1L, SUFU, TCTN1, TCTN2, TCTN3, TMEM107, TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, TOGARAM1, TTC21B, 7NF423

☐ Leukodystrophy (86 Genes, BRN05)

AARS1, ÅARS2, ÅBCD1, ACBD5, ACOX1, ADAR, AIMP1, AIMP2, ALDH3A2, ARSA, ASPA, BCAP31, CLCN2, CLDN11, CNP, CSF1R, CTC1, CYP27A1, DARS1, DARS2, DEGS1, EARS2, EIF2B4, 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, 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, ZNH1T3

☐ Aicardi-Goutières Syndrome (10 Gene, BRN06)

ADAR, IFIH1, LSM11, RÑASEH2A, RNASEH2B, RNASEH2C, SAMHD1, RNU7-1. STAT2. TREX1

☐ Macrocephaly (62 Genes, BRN04)

AKT1, AKT2, AKT3, APC2, ASPA, ASXL2, BRWD3, CCND2, CDKN1C, CHD3, CHD4, CHD8, CRADD, DIS3L2, DNMT3A, EED, EZH2, GCDH, GFAP, GLI3, GPC3, H1-4, HEPACAM, HERC1, HRAS, HUWE1, KIF7, KPTN, L1CAM, MITF, MLC1, MPDZ, MTOR, NF1, NFIA, NFIB, NFIX, NONO, NSD1, PAK1, PHF6, PIGA, PIK3CA, PIK3R2, PPP1CB, PPP2R5B, PPP2R5C, PPP2R5D, PTCH1, PTEN, RAB39B, RIN2, RNF125, SETD2, SOS1, STRADA, SUFU, SUZ12, TBC1D7, TRIO, UPF3B, ZBTB20

☐ Kabuki Syndrome (3 Genes, BRN11)

SMARCC2, SMARCD1, SMARCE1, SOX11, SOX4

CHD7, KDM6A, KMT2D

☐ Coffin-Siris Syndrome (13 Genes, BRN12)
ARID1A, ARID1B, ARID2, BICRA, DPF2, SMARCA2, SMARCA4, SMARCB1,

☐ Cornelia de Lange Syndrome (8 Genes, BRN13)

ANKRD11, BRD4, HDAC8, NIPBL, RAD21, SMC1A, SMC3, UBE2A

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 at any time. www.cegat.com/diagnostic-support | diagnostic-support@cegat.com | Phone +49707156544-55