PEDIATRIC GLOBAL DELAY DEFINE&DECIDE

BARCODE

PHYSICIAN INFORMATION		
INSTITUTION/PRACTICE	ADDRESS (STREET NAME, NO., CITY, POSTAL CODE, COUNTRY)	
FIRST NAME	TELEPHONE NUMBER (COUNTRY CODE & NUMBER)	
LAST NAME	E-MAIL ADDRESS (FOR REPORT ACCESS)	
PATIENT INFORMATION		
FIRST NAME	ADDRESS (STREET NAME, NO., CITY, POSTCODE, COUNTRY)	
LAST NAME	TELEPHONE NUMBER (COUNTRY CODE & NUMBER)	
DATE OF BIRTH (DD/MM/YYYY)	GENDER (MALE/FEMALE/OTHER - SPECIFY KARYOTYPE)	
PERSONAL IDENTIFICATION NO.	SAMPLE COLLECTION DATE (DD/MM/YYYY)	
REASON FOR TEST (DIAGNOSIS, PREDICTIVE, CARRIER)		
DECLARATION OF CONSENT (ACCORDING TO GERMAN GEN	ETIC DIAGNOSTICS ACT, GenDG)	
Applicable only for the determination of genetic (hereditary) characteristics		
The GenDG requires provision of detailed information and a written consent for a predictive (applies to healthy individuals) and prenatal testing (with restrictions: p Hereditary Cancer Panels). The German Society of Human Genetics (GfH) and the issues listed below during the information process. Please read the declaration By signing the form below I confirm that I: • Have been fully informed by my physician about the significance and consequences of the genetic investigation, in compliance with GenDG. • Have read/have been read the Information for Patients (page 5) which is attached to this form and which I fully understand. • Have been given sufficient opportunity to discuss open questions. • Authorize [insert legal entity here] to collect the necessary samples for investigation (blood, tissue, chorionic villus cells or amniotic fluid for prenatal diagnosis) and to send this form to MVZ Martinsried GmbH, Lochhamer Str. 29, 82152 Martinsried, Germany, in order to perform the tests requested through this form. • Consent to the genetic test being carried out in order to clarify the disease/dysfunction/suspected diagnosis. YES NO	ne Association of German Human Geneticists (BVDH) recommend clarifying	
☐ ☐ I agree that the specimens, and if applicable DNA sequence information, may be made available anonymously for quality	POSTCODE/CITY	
management and scientific purposes. I agree that the results of the analysis may be stored for a longer	COUNTRY	
period than the statutory period of 10 years, yet not claiming storage of results.	PLACE	
☐ I agree to the storage and use of my test results under the protection of anonymity in a statistical database used for scientific	DATE	
purposes and to help diagnose genetic diseases. I understand that I will remain under the protection of anonymity and I cannot be	SIGNATURE OF PATIENT OR PARENT/LEGAL GUARDIAN	
identified during the analysis of the data and that any personal information will be transformed into information of a	PHYSICIAN'S SIGNATURE	
non-personal nature.	- THISICIAN SOLUTIONS	



RELEVANT CLINICAL INFORMATION Interpretation of the genetic results relies on an accurate and complete clinical picture of the patient, including clinical manifestations, family medical history and previous diagnoses. **CHECK ALL BOXES THAT APPLY TO YOUR PATIENT:** Patient has a confirmed or suspected diagnosis of an inherited global developmental delay disorder. (Suspected) Diagnosis: Select all features that apply to your patient. Please note that symptoms vary in type and severity between patients and that not all symptoms related to global developmental delay and intellectual disability are listed below **DEVELOPMENTAL FACIAL DYSMORPHISM** Behavioral disorders/problems (aggressiveness, anxiety, attention deficit, autistic, Chin (e.g., accentuated, pointed, prominent) extrapyramidal movement disorders, hyperactivity, repetitive or stereotypical Dental anomalies (e.g., decayed teeth, decreased root to crown ratio, decreased tooth size) hand movements) Ear abnormalities (e.g., dysplastic, low-set, prominent, small) Cognitive disorder/impairment Eye involvement (e.g., coloboma, strabismus) Intellectual disability (mild, moderate, severe) Eyebrows (e.g., arched, broad, sparse, thick) Motor delay Eyelids (e.g., laterally elongated, ptosis, slope downwards) Speech/language development delay Eyes (e.g., deep-set, widely-spaced) Forehead (e.g., deep hairline, high and broad, narrow receding, prominent) MUSCULOSKELETAL Hearing loss/deafness Brachydactyly V Jaw (e.g., micrognathia, retrognathia) Brachydactyly-clinodactyly V Lips (e.g., cleft lip, everted lower lip, full lips, M-shaped upper lip, wide mouth) Fetal fingertip pads Macrocephaly Gait ataxia Microcephaly Growth retardation/delay Nose, flared nostrils Hyperextensible joints Nose, nasal bridge (e.g., broad, curved) Hypoplasia/aplasia of the end phalanx of the 5th finger or fingernail Nose, nasal root (e.g., broad, prominent) Hypoplastic distal phalanges of fingers and toes Nose, nasal tip (e.g., broad, flattened, rounded) Long, slender fingers Nose, short Muscle atrophy Palate (e.g., cleft palate, pointed and high) Muscle hypotonia Short philtrum Overgrowth/excessive growth Visual impairment Short height/stature Skeletal anomalies (e.g., scoliosis, kyphoscoliosis) **OTHERS** Tall stature Brain malformations Chronic constipation **GENITOURINARY Epilepsy** Hypoplastic genitals Episodes of apnea or hyperpnea Hypospadias Episodes of hyperventilation Malformation of kidneys and the urinary tract Failure to thrive Postpubertal macroorchidism Heart defects Seizures Please provide any additional clinical information and all relevant medical reports.



FAMILY HISTORY		
Patient has a family member (first or second degree relative) diagnosed with an inherited global developmental delay disorder. Diagnosis:		
Patient has a family member diagnosed with an inherited global developmental delay disorder who had genetic testing that identified a specific variant. Diagnosis: Variant:		
Patient has a family member with a similar clinical history.		
Please provide any additional clinical information and all relevant medical reports.		
Testing the index patient will improve data interpretation. If this is not the index patient, is he/she available for genetic testing? Yes No N/A		
PEDIGREE		
Example of a pedigree: Coffin-Lowry syndrome (included in Intellectual Disability Panel)	Symbols female male unaffected affected deceased carrier unknown sex spontaneous abortion termination of pregnancy identical twins fraternal twins index patient/ proband	



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OUR TESTS Please select the most appropriate test for your patier	nt from the following test and panel options:	
FRAGILE X	KARYOTYPING	☐ MICROARRAY CGH
OUR PANELS		
AUTISM SPECTRUM DISC ALDH5A1, AP1S2, ARX, ATRX, AU GRIN2B, HPRT1, KDM5C, L1CAM	TS2, BRAF, CACNA1C, CASK, CDKL5, CHD7, CHD8, CNOT3, C I, MBD5, MECP2, MED12, MEF2C, MID1, NHS, NIPBL, NLGN3,	CNTNAP2, DHCR7, DPP6, EHMT1, FGD1, FOXG1, FOXP1, FOXP2, GNAI1, , NLGN4X, NRXN1, NSD1, OPHN1, PCDH19, PHF6, PNKP, PQBP1, PTCHD1, SMC3, TBR1, TCF4, TMLHE, TSC1, TSC2, UBE2A, UBE3A, VPS13B, ZEB2
	ŹÁ, CEP290, CEP41, DCX, EOMES, FKRP, FKTN, FLNA, GPR56, K	IF7, LAMC3, LARGE, MKS1, NDE1, NPHP1, OCLN, OPHN1, PAFAH1B1, POMGNT M67, TSEN2, TSEN34, TSEN54, TUBA1A, TUBA8, TUBB2B, TUBB3, VLDLR, VRK1
BRAIN MALFORMATION: ARX, DCX, KATNB1, MACF1, NDE	S, LISSENCEPHALY PANEL E1, PAFAH1B1, RELN, TMTC3, TUBA1A	
	S, PONTOCEREBELLAR HYPOPLASIA PANEL EXOSC3, EXOSC8, EXOSC9, PCLO, RARS2, SEPSECS, SLC25A4	46, TBC1D23, TOE1, TSEN15, TSEN2, TSEN34, TSEN54, VPS53, VRK1
5 BRAIN MALFORMATION: TBCD, TUBA1A, TUBA8, TUBB, TU	S, TUBULINOPATHIES PANEL JBB2A, TUBB2B, TUBB3, TUBG1	
6 COFFIN-SIRIS SYNDROM ARID1A, ARID1B, ARID2, DPF2, SI	E PANEL MARCA4, SMARCB1, SMARCC2, SMARCE1, SOX11, SOX4	
ALG1, ALG11, ALG12, ALG13, ALG		., COG4, COG5, COG6, COG7, COG8, DDOST, DOLK, DPAGT1, DPM1, DPM2, C1, SLC39A8, SRD5A3, SSR4, STT3A, STT3B, TMEM165, TMEM199, TUSC3
8 CORNELIA DE LANGE SYI ANKRD11, BRD4, HDAC8, NIPBL,		
9 GPI ANCHOR DEFICIENC GPAA1, PGAP1, PGAP2, PGAP3, F	Y PANEL PIGA, PIGB, PIGC, PIGG, PIGH, PIGL, PIGM, PIGN, PIGO, PIGP, F	PIGQ, PIGS, PIGT, PIGU, PIGV, PIGW, PIGY
CA8, CASK, CC2D1A, CCDC22, CI FAAH2, FANCB, FGD1, FLNA, FM HMGB3, HNRNPH2, HPRT1, HSD LAS1L, MAGT1, MAN1B1, MAOA, NSDHL, NXF5, OCRL, OFD1, OGT RAI1, RBM10, RBMX, RLIM, RNF1 STXBP1, SYN1, SYNGAP1, SYP, TA	M1, ALG13, AMER1, AP1S2, AP4B1, AP4E1, AP4M1, AP4S1, A DH15, CDKL5, CLCN4, CLIC2, CNKSR2, CNTNAP2, CRBN, CRE R1, FOXG1, FOXP1, FRMPD4, FTSJ1, GDI1, GJB1, GK, GPC3, C I17B10, HUWE1, IDS, IGBP1, IKBKG, IL1RAPL1, IQSEC2, KDM1, MBTPS2, MECP2, MED12, MEF2C, MID1, MID2, MSL3, MTM T, OPHN1, OTC, PAK3, PCDH19, PDHA1, PGK1, PHF6, PHF8, P .13A, RPL10, RPS6KA3, SHROOM4, SLC16A2, SLC25A5, SLC6/	RHGEF6, ARHGEF9, ARX, ATP6AP2, ATP7A, ATRX, BCAP31, BCOR, BRWD3, EBBP, CUL4B, DCX, DDX3X, DKC1, DLG3, DMD, EBP, EIF2S3, EP300, ERLIN2, GPKOW, GRIA3, GRIK2, GRIN2B, GSPT2, HCCS, HCFC1, HDAC6, HDAC8, 5C, KDM6A, KIAA2022, KIF4A, KIRREL3, KLF8, KLHL15, L1CAM, LAMP2, 1, NAA10, NDP, NDUFA1, NEXMIF, NHS, NLGN3, NLGN4X, NONO, NRXN1, PIGA, PLP1, PORCN, PQBP1, PRPS1, PRSS12, PTCHD1, RAB39B, RAB40AL, AS, SLC9A6, SMC1A, SMS, SOBP, SOX3, SRPX2, SSR4, ST3GAL3, STAG2, C3, UBE2A, UBE3A, UPF3B, USP27X, USP9X, VLDLR, WDR13, WDR45, IF711, ZNF81
HERC1, HRAS, HUWE1, KIF7, KP1	ΓΝ, KRAS, LZTR1, MED12, MLC1, MTOR, NDUFA1, NFIB, NFIX	MT3A, DVL1, DVL3, EZH2, FOXP1, GCDH, GFAP, GLI3, GPC3, GRIA3, HEPACAN I, NONO, NRAS, NSD1, NXN, OFD1, PIGA, PIGN, PIGT, PIGV, PIK3R2, PPP1CB, SOS1, SUFU, TBC1D7, TMCO1, UPF3B, WASHC5, WNT5A, ZDHHC9
	6, CENPE, CENPF, CENPJ, CEP135, CEP152, CIT, COPB2, DON SS6, STIL, WDFY3, WDR62, ZEB1, ZNF335	ISON, KDM6A, KIF14, KMT2D, KNL1, MCPH1, MFSD2A, NCAPD2, NCAPD3,
OVERGROWTH SYNDRO CDKN1C, DIS3L2, DNMT3A, EED,	MES PANEL , EZH2, GPC3, HERC1, HIST1H1E, NFIX, NSD1, OFD1	
14 PEDIATRIC NEUROTRAN	SMITTER DISORDERS PANEL	
15 RASOPATHIES, COMPREI BRAF, CBL, HRAS, KRAS, LZTR1, N	HENSIVE PANEL MAP2K1, MAP2K2, MRAS, NF1, NRAS, PPP1CB, PTPN11, RAF:	1, RASA2, RIT1, RRAS, SHOC2, SOS1, SOS2, SPRED1
16 RETT SYNDROME PANEL CDKL5, FOXG1, MECP2		
17 RETT SYNDROME AND R ALDH5A1, ARX, BDNF, CDKL5, CN		P2, MEF2C, NRXN1, NTNG1, PLP1, SCN2A, SCN8A, STXBP1, TCF4, UBE3A, ZEB2



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INFORMATION FOR PATIENTS

PATIENT INFORMATION			
FIRST NAME	GENDER (MALE/FEMALE/OTHER - SPECIFY KARYOTYPE)		
LAST NAME	TELEPHONE NUMBER (COUNTRY CODE & NUMBER)		
DATE OF BIRTH (DD/MM/YYYY)	E-MAIL ADDRESS		
CLINICAL DIAGNOSIS			
Genetic counselling or counselling by the ordering physician is necessary before ordering a test in order to inform the patient of all of the possible outcomes and the limitations of the genetic test. I understand that I will be tested for: (to be filled in by physician)			
	s of my family, are carriers of a genetic variant causing the disease, or are carriers		
of the disease, or have an increased risk of developing a disease. The role of genetic testing. In many cases, a genetic test can directly detect a genetic alteration. Molecular tests can identify structural changes in the DNA (variants). Cytogenetic tests identify the chromosomal changes (structural or numerical). The sensitivity and specificity of each test varies. The tests offered are complex analyses and are performed using high-end equipment. The methods are externally validated, but there is a minimal possibility of errors. The significance of the results. If the result is identified as being directly causative of the clinical manifestations, it is considered to be conclusive. If the test does not identify the causative mutations of the clinical manifestations, it is considered to be inconclusive and this does not preclude other genetic changes (or non-genetic factors) responsible for the disease (a genetic disease or susceptibility to a genetic condition is not excluded). Therefore, an inconclusive result (no causative mutation identified) does not exclude the existence of other pathogenic genetic changes (variants) not tested through the current analysis. Interpretation of the genetic results relies on a complete clinical picture of the patient, including clinical manifestations, family medical history and previous diagnoses. An error in diagnosis could occur due to a clinical picture that is different from that declared. In addition, the test can identify a possible nonpaternity. The test results will be forwarded to the patient by the geneticist or ordering physician and are confidential.	Incidental findings. Genetic testing can provide information unrelated to the purpose of the test, but that may have medical importance for the patient or family (information correlated with an increased risk for incurable disorders).		
	Use of the sample/result. The sample provided will be used solely for the purpose of the test and for which I have given my written consent. Test results can also be used for research and to improve the diagnosis and treatment of genetic diseases.		
	The genetic material can be used for other purposes only with my prior express written consent.		
	Post-testing genetic counselling. A conclusive result may offer the patient information on the susceptibility, diagnosis, possible prognosis and/or heritability of the disease. An inconclusive result may lead to confusion and anxiety or may suggest the need for further genetic testing. Therefore, post-testing genetic counselling is advised for the clinical interpretation of the results.		
By my signature, I hereby certify that:	Completed by: Parent/Legal Guardian Patient		
 I have been informed of the nature and purpose of the genetic test. I have been informed of the benefits and limitations of the genetic test 	FIRST NAME		
by (name of physician). 3. I have been informed that the genetic test can provide information/results	LAST NAME		
which have no connection with the purpose of testing. I understand that only I decide if I want those additional results to be provided.	DATE OF COMPLETION		
 4. I have received clear answers to my questions in relation to the genetic test. 5. I have received a copy of this form. 6. I agree to provide a sample for the above mentioned genetic test. 	SIGNATURE		
I have explained the risks and benefits of the test as well as alternative test methods to the parent/	legal guardian. I have answered all the questions from the parent/legal guardian.		
lame of the ordering physician IRST NAME LAST NAME			
SIGNATURE OF THE ORDERING PHYSICIAN	DATE OF SIGNATURE		

