Order Form CancerPrecision®

General Information



ocheral informati				
Patient			Sender / Clinic	
Surname:			Surname:	
First name:			First name:	
Date of birth:			Institution:	
Sex:	□ male □	female	Street:	
External ID:			Postcode/City:	
			Country:	
Declaration of conse By signing this form, I de		ceived comprehensive information abo	out the Phone:	
•		in question, as well as the possibilitie derstand that I have the right to withdra	l —	
consent to genetic analys			VAT:	
		personal data and the data obtained ored in an pseudonymised form in sci	l lt annlicable nlease inclu	de a VAT number or a
		data protection and medical confider transmitted to a specialized coope	2 Invoice	☐ to sender / ☐ to patient / ☐
	•	Its within the data storage period. If sign	ificant Surname:	
I have been informed and	, ,	be informed by e-mail. ta collected by CeGaT GmbH is electrol	First name:	
stored, processed, used	0 ,		Street:	
For more detailed inform www.cegat.de/en/privacy		vacy as well as your rights please re	Postcode/City:	
Please Note			Country:	
be recognized that there have changed slightly (g	is the possibility tenes added or rem	current scientific research. It should the that the list of genes on the order form noved) by the time the sample is analy.	n may Email: zed in	
	different from wh	ysican accepts that the list of genes ac nat is currently listed. When NGS is u ced for each sample.		of my genetic mate
This consent includes to reports from external se	-	request tumor sample materials and	d I consent to the storage of the st	-
This declaration of con I have had sufficient tin		oletely or partially withdrawn at any t ring my consent.	time.	,
		n qualified to request genetic testing f eclare that I have the consent of all	or the material and/or test resul	
If the patient did not si	_	n: I, the referring physician, confirm th grees with the genetic testing. The pa	like to be informed:	ndary findings
consent has been obtain			Genetic variation may so requested genetic analys is limited to pathogenic which a treatment or cour guidelines of the America and associated diseases no claim of a comprehen cannot be used to indicate	is (so-called secon alterations (ACMG se of action exists an College of Medi can be found at <u>h</u> sive analysis of thi
Patient / Legal Gua (Block letters)	ardian	Doctor (Surname, First name)	As part of this analysis of Even there is no known variant is detected. This follow-up, prevention or clinically relevant germling	family history, it is may be of relevand for at-risk family
X		X	likely pathogenic variant	s only) in selecte
Patient / Legal Gua (Date, Signature)	ardian	Doctor (Date, Signature)	results should be discuss According to German report to the counselling counselling physician:	Genetic Diagnost
Doctor's stamp / E	Barcode		Email:	
				∰ C,



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

eyond the timespan of ☐ Yes ☐ No

use of surplus genetic earch and in scientific ☐ Yes ■ No

would

☐ Yes ■ No

ied, which does not fit within the scope of the dary findings). The reporting of these variants classes 4 and 5) within selected genes, for for you or your family (according to the current cal Genetics and Genomics; details on genes ttps://www.cegat.com/acmg-genes/). There is is gene set. An absence of secondary findings se risk.

germline changes present in leukocyte DNA. is possible that a clinically relevant germline ce for the therapy, but possibly also for tumor members. Therefore, we generally report its with therapeutic relevance or pathogenic/ d genes, unless explicitly contradicted. The netic counseling.

ic Act (GenDG) we will issue the medical ase indicate here the contact email of the





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

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For targeted and effective processing, please complete the medical history form with as much detail as possible and include a copy of all existing reports.

Indication / Suspected diagnosis / Course of disease / Pedigree		
		○ □ not affected
		affected
		known carrier
		∅
Already initiated / carried out somatic genetic analyzes		□ unrelated parents
Alleady illitated / carried out somatic genetic analyzes		Consanguine parents
		unborn child
		abortion, stillborn child
		person of unknown sex
		identical twins (monozygous)
☐ Clinical report(s) added		fraternal twins
☐ Laboratory report(s) of Pathology / Cytology / Cytogenetics / Flow 0	Cytometry added	(dizygous)
Transplants (bone marrow, tissue, stem cells) ☐ No ☐ Yes, (plea	se specify)	
Transplanto (Bono marton, abbae, Stein Gono) — Tree — Tees, (pied		
Sample material: Liquid biopsy (cfDNA)		
Liquid Biopsy samples are specimens that can only be withdrawn using spe diagnostic examination based on cfDNA, please use such collection tubes. 'at sales@cegat.de to order the tubes.		
Please note: In case the tumor DNA in cfDNA is lower as 20%, the anal	ysis might not be able to provide mea	ningful results.
☐ 3x 10ml cfDNA Tubes		
Material (tumor tissue) – minimum 20% tumor content needed!	Details of the tumor tissue	
☐ FFPE (Formalin-Fixed, Paraffin-Embedded)	☐ Primary tumor	
Block number (FFPE):	☐ Metastasis; Information on the p	rimary tumor:
☐ Tissue slides (minimum 10 slides)		
☐ Tumor DNA (> 200 ng DNA)		
☐ Frozen tissue	Tissue:	
☐ Tumor sample in RNAlater	Tumorstage/Cytogenetics.	
□ EDTA bone marrow, proportion of neoplastic cells:	Date of tumor resection:	
□ Tumor sample from	Tumor content	%
Request from		
Material (normal tissue)		
Blood ml (min. 1-2 ml EDTA-blood)	☐ Saliva sample	☐ Fibroblast culture
DNA μg (> 2 μg DNA):	☐ Skin biopsy	☐ Others:
DNA-No:	■ Buccal mucosa	

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_ C	CancerPrecision®	(Somatic	Tumor Diagnostics,	TUM01)
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- Tumor to normal tissue comparative deep panel sequencing
- Validated list of variants with potential therapeutic relevance
- Treatment options based on identified somatic variants
- TMB determination/MSI prediction/HRD calculation
- HPV and EBV integration events
- Comprehensive depiction of cancer-relevant pathwayWWs and graphical
- Detection of copy number variants (CNV analysis)
- Detailed listing of relevant drugs incl. FDA/EMA approval requirements

CancerFusionRx® (RNA-based identification of fusion
transcripts, STR01)

Targeted enrichment of relevant regions on RNA-basis allowing detection of fusions and translocations. Detected structural variants are included into the medical report.

Detection of selected pharmacogenetically relevant germline variants		
Requested Analysis: If multiple tumor tissue samples have been shipped (FFPE and liquid biopsy please specify if you would like to receive a medical report for: more than one tumor tissue sample TUM01DB ("double best"). Req FFPE tissue sample primarily and use other samples Liquid Biopsy sample primarily and use other samples as backup.	juested samples:	
Immunohistochemical (IHC) analyses (additional fees apply) IHC analyses are performed externally. Please note: IHC staining requires additional tumor slides. Not necessary, if an FFPE block has been sent. PD-L1 IHC staining for: PD-L1 (1 additional slide)	Additional analyses (additional fees apply) HLA-Typing from normal tissue (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)). MGMT promotor methylation (3-5 additional slides) 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.	
Remarks / Additional analyses: For further information and advice please do not	t hesitate to contact our Diagnostic Support team.	

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Gene lists



Gene list for DNA-based analysis (749 genes, CancerPrecision®, TUM01)

AAK1, ABCB1, ABCG2, ABL1, ABL2, ABRAXAS1, ACD, ACVR1, ADGRA2, ADRB1, ADRB2 AIP AIRE AJUBA AKT1 AKT2 AKT3 ALK ALOX12B AMER1 ANKRD26 APC, APLNR, APOBEC3A, APOBEC3B, AR, ARAF, ARHGAP35, ARID1A, ARID1B, ARID2, ARID5B, ASXL1, ASXL2, ATM, ATR, ATRX, AURKA, AURKB, AURKC, AXIN1, AXIN2, AXL, B2M, BAP1, BARD1, BAX, BCHE, BCL10, BCL11A, BCL11B, BCL2, BCL3, BCL6, BCL9, BCL9L, BCOR, BCORL1, BCR, BIRC2, BIRC3, BIRC5, BLM. BMI1. BMPR1A. BRAF. BRCA1. BRCA2. BRD3. BRD4. BRD7. BRIP1. BTK. BUB1B, CALR, CAMK2G, CARD11, CASP8, CBFB, CBL, CBLB, CBLC, CCDC6, CCND1, CCND2, CCND3, CCNE1, CD274, CD79A, CD79B, CD82, CDC73, CDH1, CDH11, CDH2, CDH5, CDK1, CDK12, CDK4, CDK5, CDK6, CDK8, CDKN1A, CDKN1B, CDKN1C, CDKN2A, CDKN2B, CDKN2C, CEBPA, CENPA, CEP57, CFTR, CHD1, CHD2, CHD4, CHEK1, CHEK2, CIC, CIITA, CKS1B, CNKSR1, COL1A1, COMT, COQ2, CREB1, CREBBP, CRKL, CRLF2, CRTC1, CSF1R, CSF3R, CSMD1, CSNK1A1, CTCF, CTLA4, CTNNA1, CTNNB1, CTR9, CTRC, CUX1, CXCR4, CYLD, CYP1A2, CYP2A7, CYP2B6, CYP2C19, CYP2C8, CYP2C9, CYP2D6, CYP3A4, CYP3A5, CYP4F2, DAXX, DCC, DDB2, DDR1, DDR2, DDX11, DDX3X, DDX41, DEK, DHFR, DICER1, DIS3L2, DNMT1, DNMT3A, DOT1L, DPYD, E2F3, EBP, EED, EFL1, EGFR, EGLN1, EGLN2, EIF1AX, ELAC2, ELF3, EME1, EML4, EMSY, EP300, EPAS1, EPCAM, EPHA2, EPHA3, EPHB4, EPHB6, ERBB2, ERBB3, ERBB4, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, ERG, ERRFI1, ESR1, ESR2, ETNK1, ETV1, ETV4, ETV5, ETV6, EWSR1, EXO1, EXT1, EXT2, EZH1, EZH2, FAN1, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, FAS, FAT1, FBXO11, FBXW7, FEN1, FES, FGF10, FGF14, FGF19, FGF2, FGF23, FGF3, FGF4, FGF5, FGF6, FGF9, FGFBP1, FGFR1, FGFR2, FGFR3, FGFR4, FH, FLCN, FLI1, FLT1, FLT3, FLT4, FOXA1, FOXE1, FOXL2, FOXO1, FOXP1, FOXQ1, FRK, FRS2, FUBP1, FUS, FYN, G6PD, GALNT12, GATA1, GATA2, GATA3. GATA4. GATA6. GGT1. GLI1. GLI2. GLI3. GNA11. GNA13. GNAQ. GNAS. GNB3, GPC3, GPER1, GREM1, GRIN2A, GRM3, GSK3A, GSK3B, GSTP1, H3-3A, H3-3B, H3C2, HABP2, HCK, HDAC1, HDAC2, HDAC6, HGF, HIF1A, HLA-A, HLA-B, HLA-C, HLA-DPA1, HLA-DPB1, HLA-DQA1, HLA-DQB1, HLA-DRA, HLA-DRB1, HMGA2. HMGCR. HMGN1. HNF1A. HNF1B. HOXB13. HRAS. HSD3B1. HSP90AA1. HSP90AB1, HTR2A, ID2, ID3, IDH1, IDH2, IDO1, IFNGR1, IFNGR2, IGF1R, IGF2, IGF2R, IKBKB, IKBKE, IKZF1, IKZF3, IL1B, IL1RN, ING4, INPP4A, INPP4B, INPPL1, INSR, IRF1, IRF2, IRS1, IRS2, ITPA, JAK1, JAK2, JAK3, JUN, KAT6A, KDM5A, KDM5C, KDM6A, KDR, KEAP1, KIAA1549, KIF1B, KIT, KLF2, KLF4, KLHL6, KLLN, KMT2A KMT2B KMT2C KMT2D KRAS KSR1 LATS1 LATS2 LCK LIG4 LIMK2 LRP1B. LRRK2. LTK. LYN. LZTR1. MAD2L2. MAF. MAGI1. MAGI2. MAML1. MAP2K1. MAP2K2, MAP2K3, MAP2K4, MAP2K5, MAP2K6, MAP2K7, MAP3K1, MAP3K13, MAP3K14, MAP3K3, MAP3K4, MAP3K6, MAP3K8, MAPK1, MAPK11, MAPK12, MAPK14, MAPK3, MAX, MBD1, MBD4, MC1R, MCL1, MDC1, MDH2, MDM2, MDM4, MECOM, MED12, MEF2B, MEN1, MERTK, MET, MGA, MGMT, MITF, MLH1, MLH3, MLLT10, MLLT3, MN1, MPL, MRE11, MS4A1, MSH2, MSH3, MSH4, MSH5, MSH6, MSR1. MST1R. MTAP. MTHFR. MTOR. MT-RNR1. MTRR. MUC1. MUTYH. MXI1. MYB. MYC. MYCL. MYCN. MYD88. MYH11. MYH9. NAT2. NBN. NCOA1. NCOA3. NCOR1, NF1, NF2, NFE2L2, NFKB1, NFKB2, NFKBIA, NFKBIE, NIN, NKX2-1, NLRC5, NOTCH1, NOTCH2, NOTCH3, NOTCH4, NPM1, NQO1, NR1I3, NRAS, NRG1, NSD1, NSD2, NSD3, NT5C2, NTHL1, NTRK1, NTRK2, NTRK3, NUMA1, NUP98, NUTM1, OBSCN, OPRM1, PAK1, PAK3, PAK4, PALB2, PALLD, PARP1, PARP2, PARP4, PAX3, PAX5, PAX7, PBK, PBRM1, PBX1, PDCD1, PDCD1LG2, PDGFA, PDGFB, PDGFC, PDGFD, PDGFRA, PDGFRB, PDK1, PDPK1, PGR, PHF6, PHOX2B, PIAS4, PIGA, PIK3C2A, PIK3C2B, PIK3C2G, PIK3CA, PIK3CB, PIK3CD, PIK3CG, PIK3R1, PIK3R2, PIK3R3, PIM1, PLCG1, PLCG2, PLK1, PML, PMS1, PMS2, POLD1, POLE, POLH, POLQ, POT1, PPM1D, PPP2R1A, PPP2R2A, PREX2, PRKAR1A, PRKCA, PRKCI, PRKDC, PRKN, PRMT5, PRSS1, PSMB1, PSMB10, PSMB2, PSMB5, PSMB8, PSMB9, PSMC3IP, PSME1, PSME2, PSME3, PSPH, PTCH1, PTCH2, PTEN, PTGS2, PTK2, PTK7, PTPN11, PTPN12, PTPRC, PTPRD, PTPRS, PTPRT, RABL3, RAC1, RAC2, RAD21, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAD54B, RAD54L, RAF1, RALGDS, RARA, RASA1, RASAL1, RB1, RBM10, RECQL4, REST, RET, RFC2, RFWD3, RFX5, RFXANK, RFXAP, RHBDF2, RHEB, RHOA, RICTOR, RINT1, RIPK1, RIT1, RNASEH2B, RNASEL, RNF43, ROS1, RPS20, RPS6KB1, RPS6KB2, RPTOR, RSF1, RUNX1, RYR1, SAMHD1, SAV1, SBDS, SCG5, SDHA, SDHAF2, SDHB, SDHC, SDHD, SEC23B, SERPINB9, SETBP1, SETD2, SETDB1, SF3B1, SGK1, SH2B1, SH2B3, SHH, SIK2, SIN3A, SKP2, SLC19A1, SLC26A3, SLCO1B1, SLIT2, SLX4, SMAD3, SMAD4, SMARCA4, SMARCB1, SMARCE1, SMC1A, SMC3, SMO, SOCS1, SOS1, SOX11, SOX2, SOX9, SPEN, SPINK1, SPOP, SPRED1, SRC, SRD5A2, SRGAP1, SRSF2, SSTR2. SSX1, STAG1, STAG2, STAT1, STAT3, STAT5A, STAT5B, STK11, SUFU, SUZ12, SYK, TAF1, TAF15, TAP1, TAP2, TAPBP, TBK1, TBL1XR1, TBX3, TCF3, TCF4, TCL1A, TEK, TERC, TERF2IP, TERT, TET1, TET2, TFE3, TGFB1, TGFBR2, TMEM127, TMPRSS2, TNFAIP3, TNFRSF13B, TNFRSF14, TNFRSF8, TNFSF11, TNK2, TOP1, TOP2A, TP53, TP53BP1, TP63, TPMT, TPX2, TRAF2, TRAF3, TRAF5, TRAF6 TRAF7 TRIM28 TRRAP TSC1 TSC2 TSHR TTK TYMS U2AF1 UBE2T UBR5. UGT1A1. UGT2B15. UGT2B7. UIMC1. UNG. USP9X. VEGFA. VEGFB. VHL. VKORC1, WRN, WT1, XIAP, XPA, XPC, XPO1, XRCC1, XRCC2, XRCC3, XRCC5, XRCC6, YAP1, YES1, ZFHX3, ZNF217, ZNF703, ZNRF3, ZRSR2

DNA-based detection of selected structural variations in these genes

ALK, BCL2, BCR, BRAF, BRD4, EGFR, ERG, ETV4, ETV6, EWSR1, FGFR1, FGFR2, FGFR3, FUS, MET, MYB, MYC, NOTCH2, NTRK1, NTRK2, NTRK3, PAX3, PDGFB, RAF1, RARA, RET, ROS1, SSX1, SUZ12, TAF15, TCF3, TFE3, TMPRSS2

Gene list for RNA-based identification of fusion transcripts (CancerFusionRx®, STR01)

Gene list for de-novo fusion detection

ABL1, ACTB, AFAP1, AGK, AKAP12, AKAP4, AKAP9, AKT2, AKT3, ALK, ASPSCR1, ATF1, ATP1B1, ATRX, BAG4, BCL2, BCOR, BCORL1, BCR, BICC1, BRAF, BRD3, BRD4. c11orf95. CAMTA1. CCAR2. CCDC6. CCDC88A. CCNB3. CCND1. CD74. CIC, CLTC, CNTRL, COL1A1, CREB1, CREB3L1, CREB3L2, CRTC1, DDIT3, DNAJB1, EGFR, EML4, EPC1, ERBB2, ERBB4, ERG, ESR1, ETV1, ETV4, ETV5, ETV6, EWSR1, EZR, FEV, FGFR1, FGFR2, FGFR3, FLI1, FN1, FOXO1, FOXO4, FUS, GLI1, GOPC, GPR128, HMGA2, JAZF1, KIAA1549, KIF5B, LMNA, LPP, MAGI3, MAML1, MAML2, MAML3, MET, MGA, MGMT, MITF, MKL2, MYB, MYC, NAB2, NCOA1, NCOA2, NCOA4, NFIB, NOTCH2, NPM1, NR4A3, NRG1, NRG2, NSD3, NTRK1, NTRK2, NTRK3, NUTM1, PAX3, PAX7, PAX8, PDGFB, PDGFRA, PDGFRB, PHF1, PIK3CA, PLAG1, PML, POU5F1, PPARGC1A, PPP1CB, PRKACA, PRKAR1A, PTPRZ1, QKI, RAF1, RANBP2, RARA, RELA, RELCH, RET, ROS1, RREB1, RSPO2, RSPO3, SDC1, SDC4, SHTN1, SLC34A2, SND1, SQSTM1, SS18, SSX1, SSX2, SSX4, STAT6, STRN, SUZ12, TACC1, TACC3, TAF15, TCF12, TERT, TFE3, TFG, THADA, TMPRSS2, TPM3, TPR, TRIM24, TRIM33, TRIO, VGLL2, WT1, WWTR1, YAP1, YWHAE, ZMYM2, ZNF703

Gene list for selected break points in these fusion genes

AFAP1-NTRK2, ATP1B1-NRG1, BCOR-CCNB3, BRD3-NUTM1, BRD4-NUTM1, CCDC6-RET, CCDC88A-ALK, CD74-NRG1, CD74-ROS1, CLTC-ALK, DNAJB1-PRKACA, EGFR-PPARGC1A, EML4-ALK, ETV6-NTRK2, ETV6-NTRK3, EWSR1-ATF1, EWSR1-ERG, EWSR1-FLI1, EWSR1-WT1, EZR-ROS1, FGFR2-BICC1, FGFR1-TACC1, FGFR2-TACC3, FIGHS1-ALC3, KIAA1549-BRAF, KIF5B-ALK, KIF5B-RET, MGA-NUTM1, NAB2-STAT6, NCO44-RET, NPM1-ALK, NSD3-NUTM1, PAX3-FOXO1, PAX7-FOXO1, PPP1CB-ALK, PRKAR1A-RET, QKI-NTRK2, SDC4-NRG1, SDC4-ROS1, SLC34A2-ROS1, SND1-BRAF, SS18-SSX1, SS18-SSX2, TMPRSS2-ERG, TPM3-ALK, TPM3-NTRK1, TPM3-ROS1, TPR-NTRK1, TRIM24-BRAF, TRIM24-NTRK2, TRIM33-RET, TRIO-TERT

List for specific transcript variants

EGFR del ex2-3, EGFR del ex2-4, EGFR del ex2-14, EGFR del ex2-22 (mLEEK), EGFR del ex5-6, EGFR del ex6-7, EGFR del ex9, EGFR del ex9-10, EGFR del ex10, EGFR del ex25-26, EGFR del ex25-27, EGFR del ex26-27, EGFR VII, EGFR VIII, MET ex14 skipping