Untersuchungsgebiet: Humangenetik (Molekulare Humangenetik)

EA2/15 Liste

Alacris Theranostics GmbH

Max-Planck-Straße 3, 12489 Berlin

nach DIN EN ISO 15189:2024

Gültig ab: 10.02.2026
Ausstellungsdatum: 10.02.2026

Untersuchungsart:
Molekularbiologische Untersuchungen (Amplifikationsverfahren)**

Untersuchungsmaterial (Matrix)	Untersuchungstechnik	Anweisung/ Version
FFPE-Tumorgewebe, Natives Tumorgewebestück, Tumorzellen; RNA	RNA Exome Sequencing (FFPE-Tumorgewebe): Hybridization-based Capture Whole Transcriptome Sequencing (FFPE-Tumorgewebe, Natives Tumorgewebestück, Tumorzellen) Next-Generation-Sequencing (MGI DNBSEQ-Technologie) Data Analysis: CMTA pipeline	S4.2.2.2_NAextr_Qiagen_AllPrep_DNA_RNA_FFPE_v4.6 S4.2.2.6_NAextr_All_Prep_DNA_RNA_miRNA_extraction_v5.5 S4.2.2.10_NAextr_Qiagen_RNeasy_Mini_Kit_v1.7 S4.2.3.2_Lib_Illumina_TruSeq_RiboZero_RNA_v5.4 S4.2.3.18_Lib_MGIEasy_Fast_RNA_Library_Prep_v2.0 S4.2.3.14_Lib_KAPA_RNA_HyperPrep RiboErase_HMR_Globine_v1.2 S4.2.3.12_Lib_Illumina_Stranded_Total_RNA_Prep_v1.3 S4.2.3.11_Lib_Illumina_RNA_Exome_v2.6 S4.2.4.16_Seq_Illumina_dsDNA_libraries_conversion_to_MGI_ssCir_DNA _v1.4 S4.2.4.24_Seq_MGI_Library_ssCir_DNA_DualBarcode_v1.1 S4.2.4.21_Seq_DNBSEQ-G400_Sequencing_Run_SM_v1.1 S4.2.4.22_Seq_DNBSEQ-T7_Sequencing_Run_SM_v1.1 S4.2.4.18_Seq_DNBSEQ_G400_Maintenance_v1.2 S5.1.1_Handling_internally_sequenced_MGI_data:storage_and_demultiplexing_V2.4 S5.1.2_CMTA_wrapper_for_CMTA-Complete_and_CMTA-Data analyses_V3.0 S5.1.20_CMTA_wrapper_for_CMTA-RNA_analyses_V3.0 S5.2.1_Annotation_of_variants,_somatic_and_germline_V2.7 S5.2.2_Annotation_of_RNA-Seq_expression_data_V2.6 S5.2.3_Annotation_of_gene_fusions_V1.9 S5.2.7_CMTA_report_generation_V3.4 S3.5.1_Finalization_and_Delivery_of_CMTA_V2.9

Analyt (Messgröße)

Genexpression Tumor:
AAK1, ABCB1, ABCC1, ABCG2, ABI1, ABL1, ABL2, ABRAXAS1, ACD, ACE, ACKR3, ACSL3, ACSL6, ACTB, ACVR1, ACVR1B, ACVR1C, ACVR2A, ACVR2B, ADAM17, ADAM33, ADGRA2, ADRB1, ADRB2, AFDN, AFF1, AFF3, AFF4, AGTR1, AIP, AIRE, AJUBA, AKT1, AKT2, AKT3, ALCAM, ALDH1A1, ALDH1A2, ALDH1A3, ALK, ALOX12B, AMER1, AMOT, ANKRD26, APC, APH1A, APLNR, APOBEC3A, APOBEC3B, AR, ARAF, ARFRP1, ARG1, ARHGAP26, ARHGAP35, ARHGEF12, ARID1A, ARID1B, ARID2, ARID5B, ARNT, ASPSCR1, ASXL1, ASXL2, ATF1, ATG5, ATIC, ATM, ATP1A1, ATP2B3, ATR, ATRX, AURKA, AURKB, AURKC, AXIN1, AXIN2, AXL, B2M, B3GAT1, B4GALNT1, BACE1, BAP1, BARD1, BATF3, BAX, BCHE, BCL10, BCL11A, BCL11B, BCL2, BCL2L1, BCL2L2, BCL3, BCL6, BCL7A, BCL9, BCL9L, BCOR, BCORL1, BCR, BIRC2, BIRC3, BIRC5, BIRC7, BLM, BMI1, BMPR1A, BMPR1B, BMPR2, BRAF, BRCA1, BRCA2, BRD3, BRD4, BRD7, BRIP1, BRSK1, BSG, BTG1, BTG2, BTK, BTLA, BUB1B, C10orf54, C11orf30, CACNA1D, CAD, CALR, CAMK2G, CAMTA1, CANT1, CARD11, CARS, CASP1, CASP10, CASP2, CASP3, CASP6, CASP7, CASP8, CASP9, CBFA2T3, CBFB, CBL, CBLB, CBLC, CCDC6, CCL3L3, CCL4, CCL5, CCNB1IP1, CCND1, CCND2, CCND3, CCNE1, CCNE2, CCR3, CCR5, CCT6B, CD160, CD163, CD19, CD22, CD244, CD27, CD274, CD276, CD28, CD36,CD3E, CD4, CD40, CD40LG, CD46, CD58, CD68, CD70, CD74, CD79A, CD79B, CD80, CD82, CD86, CD8A, CD8B, CDC25A, CDC25B, CDC25C, CDC73, CDH1, CDH11, CDH2, CDH3, CDH5, CDK1, CDK12, CDK2, CDK4, CDK5, CDK6, CDK8, CDKN1A, CDKN1B, CDKN1C, CDKN2A, CDKN2B, CDKN2C, CDX2, CEACAM5, CEBPA, CEBPB, CEBPD, CENPA, CEP57, CFTR, CHCHD7, CHD1, CHD2, CHD4, CHEK1, CHEK2, CHGA, CHIC2, CHN1, CHST11, CHUK, CIC, CIITA, CKS1B, CLDN6, CLDN18, CLIP1, CLP1, CLTC, CLTCL1, CMKLR1, CNBP, CNKSR1, CNOT3, CNTRL, COL1A1, COL2A1, COL6A3, COMT, COQ2, CPS1, CREB1, CREB3L1, CREB3L2, CREBBP, CRK, CRKL, CRLF2, CRTC1, CRTC2, CRTC3, CSF1, CSF1R, CSF3R, CSK, CSMD1, CSNK1A1, CSNK1D, CSNK1E, CSNK1G1, CSNK2A1, CSNK2A2, CT83, CTAG1A, CTAG1B, CTCF, CTLA4, CTNNA1, CTNNB1, CTRC, CUX1, CXCL10, CXCL12, CXCL9, CXCR1, CXCR2, CXCR4, CXCR6, CYLD, CYP1A2, CYP2A7, CYP2B6, CYP2C19, CYP2C8, CYP2C9, CYP2D6, CYP3A4, CYP3A5, CYP4F2, DAXX, DCC, DCTN1, DDB2, DDIT3, DDR1, DDR2, DDX10, DDX11, DDX3X, DDX41, DDX5, DDX6, DEK, DES, DHFR, DICER1, DIS3L2, DKK1, DLL1, DLL3, DLL4, DNAJB1, DNM2, DNMT1, DNMT3A, DOT1L, DPYD, DROSHA, DTX1, DUSP2, DUSP9, DYRK2, E2F1, E2F2, E2F3, EBF1, EBP, ECT2L, EDNRA, EDNRB, EED, EFL1, EFNA2, EGFR, EGLN1, EGLN2, EIF1AX, EIF3E, EIF4A2, ELAC2, ELF3, ELF4, ELK4, ELL, ELN, ELP2, EME1, EML4, EMSY, ENTPD1, EOMES, EP300, EPAS1, EPCAM, EPHA1, EPHA2, EPHA3, EPHA4, EPHA5, EPHA7, EPHB1, EPHB2, EPHB4, EPHB6, EPOR, EPS15, ERBB2, ERBB3, ERBB4, ERC1, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, ERG, ERRFI1, ESR1, ESR2, ETNK1, ETS1, ETV1, ETV4, ETV5, ETV6, EWSR1, EXO1, EXOSC6, EXT1, EXT2, EZH1, EZH2, EZR, F3, FAF1, FAM46C, FAN1, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, FAP, FAS, FASLG, FAT1, FAT4, FBXO11, FBXO31, FBXW7, FCGR2B, FCGR3A, FCGR3B, FCRL4, FEN1, FES, FEV, FGF10, FGF14, FGF19, FGF2, FGF23, FGF3, FGF4, FGF5, FGF6, FGF9, FGFBP1, FGFR1, FGFR1OP, FGFR2, FGFR3, FGFR4, FH, FHIT, FIP1L1, FLCN, FLI1, FLT1, FLT3, FLT4, FLYWCH1, FNBP1, FOLH1, FOLR1, FOXA1, FOXA2, FOXE1, FOXL2, FOXO1, FOXO3, FOXO4, FOXP1, FOXP3, FOXQ1, FRK, FRS2, FSTL3, FUBP1, FURIN, FUS, FYN, FZD1, FZD10, FZD2, FZD5, FZD8, G6PD, GAB1, GAB2, GADD45B, GALNT12, GAS7, GATA1, GATA2, GATA3, GATA4, GATA6, GFAP, GID4, GLI1, GLI2, GLI3, GMPS, GNA11, GNA12, GNA13, GNAQ, GNAS, GNB3, GOLGA5, GOPC, GPA33, GPC2, GPC3, GPER1, GPHN, GPNMB, GPR124, GPR34, GRB10, GRB2, GREM1, GRIN2A, GRM3, GSK3A, GSK3B, GSTP1, GTSE1, GUCY2C, H1FX, H3-3A, H3-3B, H3C2, H3F3A, H3F3B, HABP2, HAVCR2, HCK, HDAC1, HDAC10, HDAC11, HDAC2, HDAC3, HDAC4, HDAC5, HDAC6, HDAC7, HDAC8, HDAC9, HERPUD1, HEY1, HGF, HIF1A, HIP1, HIST1H1C, HIST1H1D, HIST1H1E, HIST1H2AC, HIST1H2AG, HIST1H2AL,HIST1H2AM, HIST1H2BC, HIST1H2BJ, HIST1H2BK, HIST1H2BO, HIST1H3B, HIST1H4I, HIST1H4l, HLF, HMGA1, HMGA2, HMGCR, HMGN1, HNF1A, HNF1B, HNRNPA2B1, HOOK3, HOXA11, HOXA13, HOXA3, HOXA9, HOXB13, HOXC11, HOXC13, HOXD11, HOXD13, HRAS, HSD3B1, HSP90AA1, HSP90AB1, HTR2A, ICAM1, ICK, ICOS, ICOSLG, ID3, ID4, IDH1, IDH2, IDO1, IDO2, IFNA1, IFNA10, IFNA13, IFNA14, IFNA16, IFNA17, IFNA2, IFNA21, IFNA4, IFNA5, IFNA6, IFNA7, IFNA8, IFNAR1, IFNAR2, IFNB1, IFNG, IFNGR1, IFNGR2, IGF1, IGF1R, IGF2, IGF2BP1, IGF2R, IKBKB, IKBKE, IKZF1, IKZF2, IKZF3, IL10, IL12A, IL12B, IL13, IL13RA1, IL13RA2, IL17A, IL17F, IL1A, IL1B, IL1R1, IL1RAP, IL1RN, IL2, IL21, IL21R, IL2RA, IL3, IL4, IL4R, IL5, IL6, IL6R, IL6ST, IL7R, ING4, INHBA, INPP4A, INPP4B, INPP5D, INPPL1, INSR, IRAK1, IRAK4, IRF1, IRF2, IRF3, IRF4, IRF8, IRS1, IRS2, IRS4, ITGA1, ITGA2, ITGA4, ITGAE, ITGAL, ITGAM, ITGAV, ITGAX, ITGB2, ITK, ITPA, JAK1, JAK2, JAK3, JARID2, JAZF1, JUN, KAT6A, KAT6B, KCNJ5, KDM2B, KDM4C, KDM5A, KDM5C, KDM6A, KDR, KDSR, KEAP1, KIAA1549, KIF1B, KIF5B, KIT, KLF2, KLF4, KLF6, KLHL6, KLK2, KLK3, KLLN, KMT2A, KMT2B, KMT2C, KMT2D, KNL1, KNSTRN, KRAS, KRT20, KRT5, KRT7, KTN1, L1CAM, LAG3, LASP1, LATS1, LATS2, LCK, LCP1, LEF1, LGMN, LHX4, LIFR, LIG4, LIMK1, LIMK2, LMNA, LMO1, LMO2, LPP, LRIG3, LRP1B, LRRK2, LTK, LY75, LYL1, LYN, LZTR1, MAD2L2, MAF, MAFB, MAGEA10, MAGEA3, MAGEA4, MAGEA6, MAGED1, MAGI1, MAGI2, MALT1, MAML1, MAML2, MAP2K1, MAP2K2, MAP2K3, MAP2K4, MAP2K5, MAP2K6, MAP2K7, MAP3K1, MAP3K10, MAP3K11, MAP3K13, MAP3K14, MAP3K3, MAP3K4, MAP3K5, MAP3K6, MAP3K7, MAP3K8, MAPK1, MAPK11, MAPK12, MAPK13, MAPK14, MAPK3, MAPK8, MAPK9, MAPKAPK2, MAPKAPK5, MAX, MBD1, MC1R, MCL1, MDC1, MDH2, MDM2, MDM4, MECOM, MED12, MEF2B, MEF2C, MEN1, MERTK, MET, MGA, MGMT, MIB1, MITF, MKI67, MKL1, MLANA, MLF1, MLH1, MLH3, MLLT1, MLLT10, MLLT11, MLLT3, MLLT4, MLLT6, MLST8, MME, MMP2, MMP9, MN1, MNX1, MOB1A, MOB1B, MPL, MRE11, MRE11A, MRTFA, MS4A1, MSH2, MSH3, MSH4, MSH5, MSH6, MSI2, MSLN, MSN, MSR1, MST1R, MTAP, MTCP1, MTHFR, MTOR, MTRR, MUC1, MUTYH, MXI1, MYB, MYC, MYCL, MYCN, MYD88, MYH11, MYH9, MYO18A, MYO5A, MYOD1, NAB2, NACA, NAT2, NBN, NCOA1, NCOA2, NCOA3, NCOA4, NCOR1, NCOR2, NCSTN, NDRG1, NF1, NF2, NFATC2, NFE2L2, NFIB, NFKB1, NFKB2, NFKBIA, NFKBIE, NGF, NGFR, NIN, NKX2-1, NLRC5, NOD1, NONO, NOS2, NOTCH1, NOTCH2, NOTCH3, NOTCH4, NPM1, NQO1, NR1I3, NR3C1, NR4A3, NRAS, NRG1, NRG2, NSD1, NSD2, NSD3, NT5C2, NT5E, NTHL1, NTRK1, NTRK2, NTRK3, NUMA1, NUP214, NUP93, NUP98, NUTM1, NUTM2B, NUTM2D, OLIG2, OMD, OPRM1, P2RY8, PAFAH1B2, PAG1, PAK1, PAK3, PAK4, PAK5, PAK7, PALB2, PALLD, PARP1, PARP2, PATZ1, PAX3, PAX5, PAX7, PAX8, PBK, PBRM1, PBX1, PC, PCBP1, PCLO, PCM1, PCSK7, PDCD1, PDCD11, PDCD1LG2, PDGFA, PDGFB, PDGFC, PDGFD, PDGFRA, PDGFRB, PDIA3, PDK1, PDPK1, PER1, PGR, PHF1, PHF6, PHOX2B, PICALM, PIGA, PIK3C2A, PIK3C2B, PIK3C2G, PIK3CA, PIK3CB, PIK3CD, PIK3CG, PIK3R1, PIK3R2, PIK3R3, PIM1, PKHD1, PLAG1, PLCG1, PLCG2, PLK1, PMEL, PML, PMS1, PMS2, POLD1, POLE, POLH, POLQ, POT1, POU2AF1, POU5F1, PPARG, PPFIBP1, PPM1D, PPP1CB, PPP2R1A, PPP2R2A, PPP6C, PRAME, PRCC, PRDM1, PRDM16, PREX2, PRF1, PRKAA1, PRKAA2, PRKACA, PRKACB, PRKAR1A, PRKCA, PRKCB, PRKCD, PRKCE, PRKCG, PRKCH, PRKCI, PRKCQ, PRKD1, PRKDC, PRKN, PRLR, PRMT5, PRRX1, PRSS8, PSAP, PSCA, PSEN1, PSEN2, PSIP1, PSMB1, PSMB10, PSMB2, PSMB5, PSMB8, PSMB9, PSMC3IP, PSME1, PSME2, PSME3, PSPH, PTCH1, PTCH2, PTEN, PTGS2, PTK2, PTK6, PTK7, PTPN11, PTPN12, PTPN13, PTPN14, PTPN2, PTPN6, PTPRB, PTPRC, PTPRD, PTPRK, PTPRS, PTPRT, PVR, PVRL4, QKI, RABEP1, RABL3, RAC1, RAC2, RAD21, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAD54B, RAD54L, RAF1, RALGDS, RANBP2, RAP1GDS1, RARA, RASA1, RASAL1, RASAL2, RASGEF1A, RB1, RBM10, RBM15, RECQL4, REL, RELN, RET, RFC2, RFWD3, RFX5, RFXANK, RFXAP, RGL1, RHBDF2, RHEB, RHOA, RHOH, RICTOR, RINT1, RIPK1, RIT1, RMI2, RNASEL, RNF213, RNF43, ROCK1, ROR1, ROR2, ROS1, RPTOR, RRAS2, RRM1, RSF1, RSPO1, RSPO2, RSPO3, RSPO4, RUNX1, RUNX1T1, RYR1, S100A6, S1PR2, SALL4, SAMHD1, SATB2, SAV1, SBDS, SCG5, SDC1, SDC4, SDHA, SDHAF2, SDHB, SDHC, SDHD, SEC23B, SEC31A, SEPT5, SEPT6, SEPT9, SERP2, SERPINB9, SET, SETBP1, SETD2, SETDB1, SF3B1, SFPQ, SFRP4, SGK1, SH2B1, SH2B3, SH3GL1, SHH, SIK2, SIN3A, SIX1, SKP2, SLC19A1, SLC1A2, SLC26A3, SLC29A1, SLC34A2, SLC39A6, SLC45A3, SLCO1B1, SLIT2, SLX4, SMAD2, SMAD3, SMAD4, SMARCA1, SMARCA4, SMARCB1, SMARCD1, SMARCE1, SMC1A, SMC3, SMO, SND1, SNX29, SOCS1, SOCS2, SOCS3, SOS1, SOST, SOX10, SOX11, SOX2, SOX9, SPARC, SPEN, SPINK1, SPOP, SPRED1, SPRED2, SPRED3, SPTA1, SRC, SRD5A2, SRGAP1, SRSF2, SRSF3, SS18, SS18L1, SSTR1, SSTR2, SSTR3, SSTR4, SSTR5, SSX1, SSX2, SSX4, STAG1, STAG2, STAT1, STAT3, STAT4, STAT5A, STAT5B, STAT6, STIL, STK11, STK3, STK36, STK4, STRN, SUFU, SUZ12, SYK, SYP, TACSTD2, TAF1, TAF15, TAL1, TAL2, TAP1, TAP2, TAPBP, TBK1, TBL1XR1, TBX21, TBX3, TCEA1, TCF12, TCF3, TCF4, TCF7, TCF7L2, TCL1A, TEAD1, TEAD2, TEAD3, TEAD4, TEC, TEK, TENT5C, TERF2IP, TERT, TET1, TET2, TFE3, TFEB, TFG, TFPT, TFRC, TGFB1, TGFB2, TGFB3, TGFBR1, TGFBR2, TIGIT, TLE3, TLL2, TLR2, TLR4, TLR5, TLR7, TLR8, TLX1, TLX3, TMEM127, TMEM173, TMEM30A, TMPRSS2, TNF, TNFAIP3, TNFRSF10A, TNFRSF10B, TNFRSF11A, TNFRSF13B, TNFRSF14, TNFRSF17, TNFRSF18, TNFRSF4, TNFRSF8, TNFSF11, TNFSF4, TNK2, TOP1, TOP2A, TOX, TP53, TP53BP1, TP63, TP73, TPBG, TPM3, TPM4, TPMT, TPR, TPX2, TRAF2, TRAF3, TRAF5,TRAF6, TRAF7, TRIM24, TRIM27, TRIM33, TRIP11, TRRAP, TSC1, TSC2, TSHR, TTF1, TTK, TTL, TUBB, TUSC3, TYK2, TYMS, U2AF1, U2AF2, UBE2T, UBR5, UGT1A1, UGT2B15, UGT2B7, UIMC1, ULK1, UNG, USP34, USP6, USP8, USP9X, VAV1, VEGFA, VEGFB, VHL, VIM, VKORC1, VTCN1, WAS, WDCP, WDR90, WEE1, WHSC1, WHSC1L1, WIF1, WISP3, WRN, WT1, WWC1, WWTR1, XBP1, XIAP, XPA, XPC, XPO1, XRCC1, XRCC2, XRCC3, XRCC5, XRCC6, YAP1, YES1, YPEL5, YWHAE, YY1AP1, ZBTB16, ZFHX3, ZFP36L2, ZMYM2, ZMYM3, ZNF217, ZNF24, ZNF331, ZNF384, ZNF521, ZNF703, ZNRF3, ZRSR2

Ausgewählte Genfusionen und Isoformen in:
ABL1, ABL2, ALK, BCR, BRAF, CRLF2, EGFR, EML4, ERG, ETV6, FGFR3, KMT2A, MET, MLLT3, NSD1, NTRK1, NTRK3, NUP98, PAX8, PDGFRB, PPARG, RET, ROS1, RUNX1, TMPRSS2, WHSC1/NSD2

Untersuchungsmaterial (Matrix)	Untersuchungstechnik	Anweisung/ Version
EDTA-Blut, FFPE-Tumorgewebe, Natives Tumorgewebestück, Tumorzellen; DNA	Whole Exome Sequencing: Hybridization-based Capture Next-Generation-Sequencing (MGI DNBSEQ-Technologie) Data Analysis: CMTA pipeline	S4.2.2.2_NAextr_Qiagen_AllPrep_DNA_RNA_FFPE_v4.6 S4.2.2.3_NAextr_Qiagen_DNA_extraction_from_blood_plasma_serum_buffy_coat_lymphocytes_or_buccal_swab_v4.6 S4.2.2.6_NAextr_All_Prep_DNA_RNA_miRNA_extraction_v5.5 S4.2.3.10_Lib_TwistBioscience_Human_Exome_v2.5 S4.2.3.17_Lib_NadPrep_EZ_DNA_Exome_v1.1 S4.2.4.16_Seq_Illumina_dsDNA_libraries_conversion_to_MGI_ssCir_DNA _v1.4 S4.2.4.24_Seq_MGI_Library_ssCir_DNA_DualBarcode_v1.1 S4.2.4.21_Seq_DNBSEQ-G400_Sequencing_Run_SM_v1.1 S4.2.4.22_Seq_DNBSEQ-T7_Sequencing_Run_SM_v1.1 S4.2.4.18_Seq_DNBSEQ_G400_Maintenance_v1.2 S5.1.1_Handling_internally_sequenced_MGI_data:storage_and_demultiplexing_V2.4 S5.1.2_CMTA_wrapper_for_CMTA-Complete_and_CMTA-Data analyses_V3.0 S5.2.1_Annotation_of_variants,_somatic_and_germline_V2.7 S5.2.4_Annotation_of_Copy_Number_variants_(CNVs)_V1.7 S5.2.7_CMTA_report_generation_V3.4 S3.5.1_Finalization_and_Delivery_of_CMTA_V2.9

Analyt (Messgröße)

Tumorpanel somatisch:
AAK1, ABCB1, ABCC1, ABCG2, ABI1, ABL1, ABL2, ABRAXAS1, ACD, ACE, ACKR3, ACSL3, ACSL6, ACTB, ACVR1, ACVR1B, ACVR1C, ACVR2A, ACVR2B, ADAM17, ADAM33, ADGRA2, ADRB1, ADRB2, AFDN, AFF1, AFF3, AFF4, AGTR1, AIP, AIRE, AJUBA, AKT1, AKT2, AKT3, ALCAM, ALDH1A1, ALDH1A2, ALDH1A3, ALK, ALOX12B, AMER1, AMOT, ANKRD26, APC, APH1A, APLNR, APOBEC3A, APOBEC3B, AR, ARAF, ARFRP1, ARG1, ARHGAP26, ARHGAP35, ARHGEF12, ARID1A, ARID1B, ARID2, ARID5B, ARNT, ASPSCR1, ASXL1, ASXL2, ATF1, ATG5, ATIC, ATM, ATP1A1, ATP2B3, ATR, ATRX, AURKA, AURKB, AURKC, AXIN1, AXIN2, AXL, B2M, B3GAT1, B4GALNT1, BACE1, BAP1, BARD1, BATF3, BAX, BCHE, BCL10, BCL11A, BCL11B, BCL2, BCL2L1, BCL2L2, BCL3, BCL6, BCL7A, BCL9, BCL9L, BCOR, BCORL1, BCR, BIRC2, BIRC3, BIRC5, BIRC7, BLM, BMI1, BMPR1A, BMPR1B, BMPR2, BRAF, BRCA1, BRCA2, BRD3, BRD4, BRD7, BRIP1, BRSK1, BSG, BTG1, BTG2, BTK, BTLA, BUB1B, C10orf54, C11orf30, CACNA1D, CAD, CALR, CAMK2G, CAMTA1, CANT1, CARD11, CARS, CASP1, CASP10, CASP2, CASP3, CASP6, CASP7, CASP8, CASP9, CBFA2T3, CBFB, CBL, CBLB, CBLC, CCDC6, CCL3L3, CCL4, CCL5, CCNB1IP1, CCND1, CCND2, CCND3, CCNE1, CCNE2, CCR3, CCR5, CCT6B, CD160, CD163, CD19, CD22, CD244, CD27, CD274, CD276, CD28, CD36, CD3E, CD4, CD40, CD40LG, CD46, CD58, CD68, CD70, CD74, CD79A, CD79B, CD80, CD82, CD86, CD8A, CD8B, CDC25A, CDC25B, CDC25C, CDC73, CDH1, CDH11, CDH2, CDH3, CDH5, CDK1, CDK12, CDK2, CDK4, CDK5, CDK6, CDK8, CDKN1A, CDKN1B, CDKN1C, CDKN2A, CDKN2B, CDKN2C, CDX2, CEACAM5, CEBPA, CEBPB, CEBPD, CENPA, CEP57, CFTR, CHCHD7, CHD1, CHD2, CHD4, CHEK1, CHEK2, CHGA, CHIC2, CHN1, CHST11, CHUK, CIC, CIITA, CKS1B, CLDN18, CLIP1, CLP1, CLTC, CLTCL1, CMKLR1, CNBP, CNKSR1, CNOT3, CNTRL, COL1A1, COL2A1, COL6A3, COMT, COQ2, CPS1, CREB1, CREB3L1, CREB3L2, CREBBP, CRK, CRKL, CRLF2, CRTC1, CRTC2, CRTC3, CSF1, CSF1R, CSF3R, CSK, CSMD1, CSNK1A1, CSNK1D, CSNK1E, CSNK1G1, CSNK2A1, CSNK2A2, CT83, CTAG1A, CTAG1B, CTCF, CTLA4, CTNNA1, CTNNB1, CTRC, CUX1, CXCL10, CXCL12, CXCL9, CXCR1, CXCR2, CXCR4, CXCR6, CYLD, CYP1A2, CYP2A7, CYP2B6, CYP2C19, CYP2C8, CYP2C9, CYP2D6, CYP3A4, CYP3A5, CYP4F2, DAXX, DCC, DCTN1, DDB2, DDIT3, DDR1, DDR2, DDX10, DDX11, DDX3X, DDX41, DDX5, DDX6, DEK, DES, DHFR, DICER1, DIS3L2, DKK1, DLL1, DLL3, DLL4, DNAJB1, DNM2, DNMT1, DNMT3A, DOT1L, DPYD, DROSHA, DTX1, DUSP2, DUSP9, DYRK2, E2F1, E2F2, E2F3, EBF1, EBP, ECT2L, EDNRA, EDNRB, EED, EFL1, EFNA2, EGFR, EGLN1, EGLN2, EIF1AX, EIF3E, EIF4A2, ELAC2, ELF3, ELF4, ELK4, ELL, ELN, ELP2, EME1, EML4, EMSY, ENTPD1, EOMES, EP300, EPAS1, EPCAM, EPHA1, EPHA2, EPHA3, EPHA4, EPHA5, EPHA7, EPHB1, EPHB2, EPHB4, EPHB6, EPOR, EPS15, ERBB2, ERBB3, ERBB4, ERC1, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, ERG, ERRFI1, ESR1, ESR2, ETNK1, ETS1, ETV1, ETV4, ETV5, ETV6, EWSR1, EXO1, EXOSC6, EXT1, EXT2, EZH1, EZH2, EZR, F3, FAF1, FAM46C, FAN1, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, FAP, FAS, FASLG, FAT1, FAT4, FBXO11, FBXO31, FBXW7, FCGR2B, FCGR3A, FCGR3B, FCRL4, FEN1, FES, FEV, FGF10, FGF14, FGF19, FGF2, FGF23, FGF3, FGF4, FGF5, FGF6, FGF9, FGFBP1, FGFR1, FGFR1OP, FGFR2, FGFR3, FGFR4, FH, FHIT, FIP1L1, FLCN, FLI1, FLT1, FLT3, FLT4, FLYWCH1, FNBP1, FOLH1, FOLR1, FOXA1, FOXA2, FOXE1, FOXL2, FOXO1, FOXO3, FOXO4, FOXP1, FOXP3, FOXQ1, FRK, FRS2, FSTL3, FUBP1, FURIN, FUS, FYN, FZD1, FZD10, FZD2, FZD5, FZD8, G6PD, GAB1, GAB2, GADD45B, GALNT12, GAS7, GATA1, GATA2, GATA3, GATA4, GATA6, GID4, GLI1, GLI2, GLI3, GMPS, GNA11, GNA12, GNA13, GNAQ, GNAS, GNB3, GOLGA5, GOPC, GPA33, GPC2, GPC3, GPER1, GPHN, GPNMB, GPR124, GPR34, GRB10, GRB2, GREM1, GRIN2A, GRM3, GSK3A,GSK3B, GSTP1, GTSE1, GUCY2C, H1FX, H3-3A, H3-3B, H3C2, H3F3A, H3F3B, HABP2, HAVCR2, HCK, HDAC1, HDAC10, HDAC11, HDAC2, HDAC3, HDAC4, HDAC5, HDAC6, HDAC7, HDAC8, HDAC9, HERPUD1, HEY1, HGF, HIF1A, HIP1, HIST1H1C, HIST1H1D, HIST1H1E, HIST1H2AC, HIST1H2AG, HIST1H2AL, HIST1H2AM, HIST1H2BC, HIST1H2BJ, HIST1H2BK, HIST1H2BO, HIST1H3B, HIST1H4I, HIST1H4l, HLF, HMGA1, HMGA2, HMGCR, HMGN1, HNF1A, HNF1B, HNRNPA2B1, HOOK3, HOXA11, HOXA13, HOXA3, HOXA9, HOXB13, HOXC11, HOXC13, HOXD11, HOXD13, HRAS, HSD3B1, HSP90AA1, HSP90AB1, HTR2A, ICAM1, ICK, ICOS, ICOSLG, ID3, ID4, IDH1, IDH2, IDO1, IDO2, IFNA1, IFNA10, IFNA13, IFNA14, IFNA16, IFNA17, IFNA2, IFNA21, IFNA4, IFNA5, IFNA6, IFNA7, IFNA8, IFNAR1, IFNAR2, IFNB1, IFNG, IFNGR1, IFNGR2, IGF1, IGF1R, IGF2, IGF2BP1, IGF2R, IKBKB, IKBKE, IKZF1, IKZF2, IKZF3, IL10, IL12A, IL12B, IL13, IL13RA1, IL13RA2, IL17A, IL17F, IL1A, IL1B, IL1R1, IL1RAP, IL1RN, IL2, IL21, IL21R, IL2RA, IL3, IL4, IL4R, IL5, IL6, IL6R, IL6ST, IL7R, ING4, INHBA, INPP4A, INPP4B, INPP5D, INPPL1, INSR, IRAK1, IRAK4, IRF1, IRF2, IRF3, IRF4, IRF8, IRS1, IRS2, IRS4, ITGA1, ITGA2, ITGA4, ITGAE, ITGAL, ITGAM, ITGAV, ITGAX, ITGB2, ITK, ITPA, JAK1, JAK2, JAK3, JARID2, JAZF1, JUN, KAT6A, KAT6B, KCNJ5, KDM2B, KDM4C, KDM5A, KDM5C, KDM6A, KDR, KDSR, KEAP1, KIAA1549, KIF1B, KIF5B, KIT, KLF2, KLF4, KLF6, KLHL6, KLK2, KLK3, KLLN, KMT2A, KMT2B, KMT2C, KMT2D, KNL1, KNSTRN, KRAS, KRT20, KRT5, KRT7, KTN1, L1CAM, LAG3, LASP1, LATS1, LATS2, LCK, LCP1, LEF1, LGMN, LHX4, LIFR, LIG4, LIMK1, 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TNFRSF4, TNFRSF8, TNFSF11, TNFSF4, TNK2, TOP1, TOP2A, TOX, TP53, TP53BP1, TP63, TP73, TPBG, TPM3, TPM4, TPMT, TPR, TPX2, TRAF2, TRAF3, TRAF5, TRAF6, TRAF7, TRIM24, TRIM27, TRIM33, TRIP11, TRRAP, TSC1, TSC2, TSHR, TTF1, TTK, TTL, TUBB, TUSC3, TYK2, TYMS, U2AF1, U2AF2, UBE2T, UBR5, UGT1A1, UGT2B15, UGT2B7, UIMC1, ULK1, UNG, USP34, USP6, USP8, USP9X, VAV1, VEGFA, VEGFB, VHL, VIM, VKORC1, VTCN1, WAS, WDCP, WDR90, WEE1, WHSC1, WHSC1L1, WIF1, WISP3, WRN, WT1, WWC1, WWTR1, XBP1, XIAP, XPA, XPC, XPO1, XRCC1, XRCC2, XRCC3, XRCC5, XRCC6, YAP1, YES1, YPEL5, YWHAE,
YY1AP1, ZBTB16, ZFHX3, ZFP36L2, ZMYM2, ZMYM3, ZNF217, ZNF24, ZNF331, ZNF384, ZNF521, ZNF703, ZNRF3, ZRSR2

(Identifizierung von genetischen Veränderungen als Therapie-prädiktive Biomarker)