

NGS PANELS IM ANGEBOT

- Oncomine™ BRCA Research Assay
- Oncomine™ Focus Assay
- Oncomine™ Tumor Mutation Load Assay (TMB, Tumormutationslast pro Megabase)
- Oncomine™ Comprehensive Panel_v3, DNA / RNA
- Liquid Biopsy, Oncomine™ Pan-Cancer Cell-Free Assay

GENES UND (EXONS) DER PANELS

Oncomine™ BRCA Research Assay Panel

DNA, BRCA1 (2-24 exons) and BRCA2 (2-27 exons) genes, complete

Oncomine™ Focus Assay Panel

DNA, 35 genes, hotspots: *AKT1* (1, 3), *ALK* (21-25), *AR* (6,8), *BRAF* (11, 15), *CDK4* (2), *CTNNB1* (3), *DDR2* (5), *EGFR* (3, 7, 12, 15, 18, 19, 20, 21), *ERBB2* (8, 17-22), *ERBB3* (2, 3, 6, 8, 9), *ERBB4* (18), *ESR1* (9), *FGFR2* (7, 8, 9, 12, 14), *FGFR3* (7, 9, 14, 16), *GNA11* (4, 5), *GNAQ* (4, 5), *HRAS* (2, 3), *IDH1* (4), *IDH2* (4), *JAK1* (14, 15, 16), *JAK2* (14), *JAK3* (11, 12, 15), *KIT* (8, 9, 11, 13, 17), *KRAS* (2, 3, 4), *MAP2K1* (2, 3, 6), *MAP2K2* (2), *MET* (14, 16, 19), *MTOR* (30, 39, 40, 43, 47, 53), *NRAS* (2, 3, 4), *PDGFRA* (12, 14, 18), *PIK3CA* (2, 5, 6, 8, 10, 14, 19, 21), *RAF1* (7, 12), *RET* (10, 11, 13, 15, 16), *ROS1* (36, 38), *SMO* (4, 6, 8, 9)

DNA, Copy Number Variation (CNV), 19 genes: *ALK*, *AR*, *BRAF*, *CCND1*, *CDK4*, *CDK6*, *EGFR*, *ERBB2*, *FGFR1*, *FGFR2*, *FGFR3*, *FGFR4*, *KIT*, *KRAS*, *MET*, *MYC*, *MYCN*, *PDGFRA*, *PIK3CA*

RNA, fusion, 23 genes: *ABL1*, *ALK*, *AKT3*, *AXL*, *BRAF*, *EGFR*, *ERBB2*, *ERG*, *ETV1*, *ETV4*, *ETV5*, *FGFR1*, *FGFR2*, *FGFR3*, *MET*, *NTRK1*, *NTRK2*, *NTRK3*, *PDGFRA*, *PPARG*, *RAF1*, *RET*, *ROS1*

Oncomine™ Tumor Mutation Load Assay (TMB)

DNA, 409 genes: *ABL*, *ABL2*, *ACVR2A*, *ADAMTS20*, *AFF1*, *AFF3*, *AKAP9*, *AKT1*, *AKT2*, *AKT3*, *ALK*, *APC*, *AR*, *ARID1A*, *ARID2*, *ARNT*, *ASXL1*, *ATF1*, *ATM*, *ATR*, *ATRX*, *AURKA*, *AURKB*, *AURKC*, *AXL*, *BAI3*, *BAP1*, *BCL10*, *BCL11A*, *BCL11B*, *BCL2*, *BCL2L1*, *BCL2L2*, *BCL3*, *BCL6*, *BCL9*, *BCR*, *BIRC2*, *BIRC3*, *BIRC5*, *BLM*, *BLNK*, *BMPR1A*, *BRAF*, *BRD3*, *BTK*, *BUB1B*, *CARD11*, *CASC5*, *CBL*, *CCND1*, *CCND2*, *CCNE1*, *CD79A*, *CD79B*, *CDC73*, *CDH1*, *CDH11*, *CDH2*, *CDH20*, *CDH5*, *CDK4*, *CDK6*, *CDK8*, *CDK12*, *CDKN2A*, *CDKN2B*, *CDKN2C*, *CEBPA*, *CHEK1*, *CHEK2*, *CIC*, *CKS1B*, *CMPK1*, *COL1A1*, *CRBN*, *CREB1*, *CREBBP*, *CRKL*, *CRTC1*, *CSF1R*, *CSMD3*, *CTNNA1*, *CTNNB1*, *CYLD*, *CYP2C19*, *CYP2D6*, *DAXX*, *DCC*, *DDB2*, *DDIT3*, *DDR2*, *DEK*, *DICER1*, *DNMT3A*, *DPYD*, *DST*, *EGFR*, *EML4*, *EP300*, *EP400*, *EPHA3*, *EPHA7*, *EPHB1*, *EPHB4*, *EPHB6*, *ERBB2*, *ERBB3*, *ERBB4*, *ERCC1*, *ERCC2*, *ERCC3*, *ERCC4*, *ERCC5*, *ERG*, *ESR1*, *ETS1*, *ETV1*, *ETV4*, *EXT1*, *EXT2*, *EZH2*, *FAM123B*, *FANCA*, *FANCC*, *FANCD2*, *FANCF*, *FANCG*, *FANCI*, *FAS*, *FBXW7*, *FGFR1*, *FGFR2*, *FGFR3*, *FGFR4*, *FH*, *FLCN*, *FLI1*, *FLT1*, *FLT3*, *FLT4*, *FN1*, *FOXL2*, *FOXO1*, *FOXO3*, *FOXP1*, *FOXP4*, *FZR1*, *G6PD*, *GATA1*, *GATA2*, *GATA3*, *GDNF*, *GNA11*, *GNAQ*, *GNAS*, *GPR124*, *GRM8*, *GUCY1A2*, *HCAR1*, *HIF1A*, *HLF*, *HNF1A*, *HOOK3*, *HRAS*, *HSP90AA1*, *HSP90AB1*, *ICK*, *IDH1*, *IDH2*, *IGF1R*, *IGF2*, *IGF2R*, *IKBKB*, *IKBKE*, *IKZF1*, *IL2*, *IL21R*, *IL6ST*, *IL7R*, *ING4*, *IRF4*, *IRS2*, *ITGA10*, *ITGA9*, *ITGB2*, *ITGB3*, *JAK1*, *JAK2*, *JAK3*, *JUN*, *KAT6A*, *KAT6B*, *KDM5C*, *KDM6A*, *KDR*, *KEAP1*, *KIT*, *KLF6*, *KRAS*, *LAMP1*, *LCK*, *LIFR*, *LPHN3*, *LPP*, *LRP1B*, *LTF*, *LTK*, *MAF*, *MAFB*, *MAGEA1*, *MAGI1*, *MALT1*, *MAML2*, *MAP2K1*, *MAP2K2*, *MAP2K4*, *MAP3K7*, *MAPK1*, *MAPK8*, *MARK1*, *MARK4*, *MBD1*, *MCL1*, *MDM2*, *MDM4*, *MEN1*, *MET*, *MITF*, *MLL*, *MLH1*, *MLL2*, *MLL3*, *MLLT10*, *MMP2*, *MN1*, *MPL*, *MRE11A*, *MSH2*, *MSH6*, *MTOR*, *MTR*, *MTRR*, *MUC1*, *MUTYH*, *MYB*, *MYC*, *MYCL1*, *MYCN*, *MYD88*, *MYH11*, *MYH9*, *NBN*, *NCOA1*, *NCOA2*, *NCOA4*, *NF1*, *NF2*, *NFE2L2*, *NFKB1*, *NFKB2*, *NIN*, *NKX2-1*, *NLRP1*, *NOTCH1*, *NOTCH2*, *NOTCH4*, *NPM1*, *NRAS*, *NSD1*, *NTRK1*, *NTRK3*, *NUMA1*, *NUP214*, *NUP98*, *PAK3*, *PALB2*, *PARP1*, *PAX3*, *PAX5*, *PAX7*, *PAX8*, *PBRM1*, *PBX1*, *PDE4DIP*, *PDGFB*, *PDGFRA*, *PDGFRB*, *PER1*, *PGAP3*, *PHOX2B*, *PIK3C2B*, *PIK3CA*, *PIK3CB*, *PIK3CD*, *PIK3CG*, *PIK3R1*, *PIK3R2*, *PIM1*, *PKHD1*, *PLAG1*, *PLCG1*, *PLEKHG5*, *PML*, *PMS1*, *PMS2*, *POT1*, *POU5F1*, *PPARG*, *PPP2R1A*, *PRDM1*, *PRKAR1A*, *PRKDC*, *PSIP1*, *PTCH1*, *PTEN*, *PTGS2*, *PTPN11*, *PTPRD*, *PTPRT*, *RAF1*, *RAD50*, *RALGDS*, *RARA*, *RB1*, *RECQL4*, *REL*, *RET*, *RHOH*, *RNASEL*, *RNF2*, *RNF213*, *ROS1*, *RPS6KA2*, *RRM1*, *RUNX1*, *SAMD9*, *SBDS*, *SDHA*, *SDHB*, *SDHC*, *SDHD*, *SEPT9*, *SETD2*, *SF3B1*, *SGK1*, *SH2D1A*, *SMAD2*, *SMAD4*, *SMARCA4*, *SMARCB1*, *SMO*, *SMUG1*, *SOCS1*, *SOX11*, *SOX2*, *SRC*, *SSX1*, *STK11*, *STK36*, *SUFU*, *SYK*, *SYNE1*, *TAF1*, *TAF1L*, *TAL1*, *TBX22*, *TCF12*, *TCF3*, *TCF7L1*, *TCF7L2*, *TCL1A*, *TET1*, *TET2*, *TFE3*, *TGFB2*, *TGM7*, *THBS1*, *TIMP3*, *TLR4*, *TLX1*, *TNFAIP3*, *TNFRSF14*, *TNK2*, *TOP1*, *TP53*, *TPR*, *TRIM24*, *TRIM33*, *TRIP11*, *TRRAP*, *TSC1*, *TSC2*, *TSHR*, *UBR5*, *UGT1A1*, *USP9X*, *VHL*, *WAS*, *WHSC1*, *WRN*, *WT1*, *XPA*, *XPC*, *XPO1*, *XRCC2*, *ZNF384*, *ZNF521*

OncoPrint™ Comprehensive Panel_v3 DNA

DNA, 87 genes, hotspots: AKT1, AKT2, AKT3, ALK, AR, ARAF, AXL, BRAF, BTK, CBL, CCND1, CDK4, CDK6, CHEK2, CSF1R, CTNNB1, DDR2, EGFR, ERBB2, ERBB3, ERBB4, ERCC2, ESR1, EZH2, FGFR1, FGFR2, FGFR3, FGFR4, FLT3, FOXL2, GATA2, GNA11, GNAQ, GNAS, H3F3A, HIST1H3B, HNF1A, HRAS, IDH1, IDH2, JAK1, JAK2, JAK3, KDR, KIT, KNSTRN, KRAS, MAGOH, MAP2K1, MAP2K2, MAP2K4, MAPK1, MAX, MDM4, MED12, MET, MTOR, MYC, MYCN, MYD88, NFE2L2, NRAS, NTRK1, NTRK2, NTRK3, PDGFRA, PDGFRB, PIK3CA, PIK3CB, PPP2R1A, PTPN11, RAC1, RAF1, RET, RHEB, RHOA, ROS1, SF3B1, SMAD4, SMO, SPOP, SRC, STAT3, TERT, TOP1, U2AF1, XPO1

DNA, 48 genes, complete: ARID1A, ATM, ATR, ATRX, BAP1, BRCA1, BRCA2, CDK12, CDKN1B, CDKN2A, CDKN2B, CHEK1, CREBBP, FANCA, FANCD2, FANCI, FBXW7, MLH1, MRE11A, MSH2, MSH6, NBN, NF1, NF2, NOTCH1, NOTCH2, NOTCH3, PALB2, PIK3R1, PMS2, POLE, PTCH1, PTEN, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RB1, RNF43, SETD2, SLX4, SMARCA4, SMARCB1, STK11, TP53, TSC1, TSC2

DNA, Copy Number Variation (CNV), 47 genes: AKT1, AKT2, AKT3, ALK, AR, AXL, BRAF, CCND1, CCND2, CCND3, CCNE1, CDK2, CDK4, CDK6, EGFR, ERBB2, ESR1, FGF19, FGF3, FGFR1, FGFR2, FGFR3, FGFR4, FLT3, IGF1R, KIT, KRAS, MDM2, MDM4, MET, MYC, MYCL, MYCN, NTRK1, NTRK2, NTRK3, PDGFRA, PDGFRB, PIK3CA, PIK3CB, PPARG, RICTOR, TERT

OncoPrint™ Comprehensive Panel_v3 RNA

RNA, fusion, 51 genes: ALK, AXL, BRAF, EGFR, ERBB2, ERBB3, ERBB4, ESR1, ETV1, ETV4, ETV5, FGFR1, FGFR2, FGFR3, NTRK1, NTRK2, NTRK3, PDGFRA, PPARG, RAF1, RET, ROS1, AKT2, AR, BRCA1, BRCA2, CDKN2A, ERBB4, ESR1, FGR, FLT3, JAK2, KRAS, MDM4, MET, MYB, MYBL1, NF1, NOTCH1, NOTCH4, NRG1, NTRK2, NUTM1, PDGFRB, PIK3CA, PRKACA, PRKACB, PTEN, RAD51B, RB1, RELA, RSPO2, RSPO3, TERT

Liquid Biopsy, OncoPrint™ Pan-Cancer Cell-Free Assay

DNA, 40 genes, hotspots: AKT1, ALK, APC, AR, ARAF, BRAF, CHEK2, CTNNB1, DDR2, EGFR, ERBB2, ERBB3, ESR1, FBXW7, FGFR1, FGFR2, FGFR3, FGFR4, FLT3, GNA11, GNAQ, GNAS, HRAS, IDH1, IDH2, KIT, KRAS, MAP2K1, MAP2K2, MET, MTOR, NRAS, NTRK1, NTRK3, PDGFRA, PIK3CA, PTEN, RAF1, RET, ROS1, SF3B1, SMAD4, SMO, TP53

DNA, Copy Number Variation (CNV), 12 genes: CCND1, CCND2, CCND3, CDK4, CDK6, EGFR, ERBB2, FGFR1, FGFR2, FGFR3, MET, MYC

RNA, fusion, 12 genes: ALK, BRAF, ERG, ETV1, FGFR1, FGFR2, FGFR3, MET, NTRK1, NTRK3, RET, ROS1