



GI-Tumore Bauchspeicheldrüse, Gallenblase, Leber

GENLISTE							
ABL1 Exons 4-9	ACVR1B	AKT1 Exon 3	AKT2	AKT3	ALK Exons 20-29 Introns 18,19	ALOX12B	AMER1 (FAM123B)
APC	AR	ARAF Exons 4,5,7, 11,13,15,16	ARFRP1	ARID1A	ASXL1	ATM	ATR
ATRX	AURKA	AURKB	AXIN1	AXL	BAP1	BARD1	BCL2
BCL2L1	BCL2L2	BCL6	BCOR	BCORL1	BCR Introns 8,13,14	BRAF Exons 11-18 Introns 7-10	BRCA1 Introns 2,7,8,12, 16,19,20
BRCA2 Intron 2	BRD4	BRIP1	BTG1	BTG2	BTK Exons 2,15	C11orf30 (EMSY)	CALR
CARD11	CASP8	CBFB	CBL	CCND1	CCND2	CCND3	CCNE1
CD22	CD274 (PD-L1)	CD70	CD74 Introns 6-8	CD79A	CD79B	CDC73	CDH1
CDK12	CDK4	CDK6	CDK8	CDKN1A	CDKN1B	CDKN2A	CDKN2B
CDKN2C	CEBPA	CHEK1	CHEK2	CIC	CREBBP	CRKL	CSF1R
CSF3R	CTCF	CTNNA1	CTNNB1 Exon 3	CUL3	CUL4A	CXCR4	CYP17A1
DAXX	DDR1	DDR2 Exons 5,17,18	DIS3	DNMT3A	DOTIL	EED	EGFR Introns 7,15,24-27
EP300	EPHA3	EPHB1	EPHB4	ERBB2	ERBB3 Exons 3,6-8, 10,12,20, 21,23-25	ERBB4	ERCC4
ERG	ERRF1	ESR1 Exons 4-8	ETV4 Intron 8	ETV5 Introns 6,7	ETV6* Introns 5,6	EWSR1 Introns 7-13	EZH2 Exons 4,16-18
EZR Introns 9-11	FAM46C	FANCA	FANCC	FANCG	FANCL	FAS	FBXW7
FGF10	FGF12	FGF14	FGF19	FGF23	FGF3	FGF4	FGF6
FGFR1 Introns 1,5 Intron 17	FGFR2 Intron 7 Intron 17	FGFR3** Exons 7,9	FGFR4	FH	FLCN	FLT1	FLT3 Exons 14,15,20
FOXL2	FUBP1	GABRA6	GATA3	GATA4	GATA6	GJD4 (CT17orf39)	GNAI1 Exons 4,5
GNAI3	GNAQ Exons 4,5	GNAS Exons 1,8	GRM3	GSK3B	H3F3A	HDAC1	HGF
HNF1A	HRAS Exons 2,3	HSD3B1	ID3	IDH1 Exon 4	IDH2 Exon 4	IGF1R	IKBKE
IKZF1	INPP4B	IRF2	IRF4	IRS2	JAK1	JAK2 Exon 14	JAK3 Exons 5,11-13, 15,16
JUN	KDM5A	KDM5C	KDM6A	KDR	KEAP1	KEL	KIT Exons 8,9,11,12,13,17 intron 16
KLHL6	KMT2A (MLL) Introns 6, 8-11 Intron 7	KMT2D (MLL2)	KRAS	LTK	LYN	MAF	MAP2K1 (MEK1) Exons 2,3

Referenzen:

1. E. Papadopoulos et al., World J Gastrointest Oncol. 2016 Nov 15; 8(11): 772-785
2. J. Munding, A. Tannapfel, Ruhr-Universität Bochum, Institut für Pathologie, Bochum https://www.journalonko.de/artikel/lesen/Molekulare_Klassifikation_gastrointestinaler_Tumoren;page:5
3. <https://www.dna-diagnostik.hamburg/analyten/karzinom-pankreas>
4. Rille Pihlak et al., Cancers (Basel). 2018 Jan; 10(1): 17
5. J. Duan et al., J Hepatocell Carcinoma 2019; 6: 151-166
6. J. Sicklick et al., Cancer Metastasis Rev. 2016 Jun; 35(2): 263-275

MAP2K2 (MEK2) Exons 2-4,6,7	MAP2K4	MAP3K1	MAP3K13	MAPK1	MCL1	MDM2	MDM4
MED12	MEF2B	MEN1	MERTK	MET	MITF	MKNK1	MLH1
MPL Exon 10	MRE11A	MSH2 Intron 5	MSH3	MSH6	MST1R	MTAP	MTOR Exons 19,30,39,40, 43-45,47,48, 53,56
MUTYH	MYB Intron 14	MYC Intron 1	MYCL (MYCL1)	MYCN	MYD88 Exon 4	NBN	NF1
NF2	NFE2L2	NFKBIA	NKX2-1	NOTCH1	NOTCH2 Intron 26	NOTCH3	NPM1 Exons 4-6,8,10
NRAS Exons 2,3	NSD3 (WHSCIL1)	NT5C2	NTRK1 Exons 14,15 Introns 8-11	NTRK2* Intron 12	NTRK3 Exons 16,17	NUTM1 Intron 1	P2RY8
PALB2	PARK2	PARP1	PARP2	PARP3	PAX5	PBRM1	PDCD1 (PD-1)
PDCD1LG2 (PD-2)	PDGFRA Exons 12,18 Introns 7,9,11	PDGFRB Exons 12-21,23	PDK1	PIK3C2B	PIK3C2G	PIK3CA Exons 2,3,5-8,10, 14,19,21, kodierende Exons 1,2,4-7,9, 13,18,20	PIK3CB
PIK3R1	PIM1	PMS2	POLD1	POLE	PPARG	PPP2R1A	PPP2R2A
PRDM1	PRKARIA	PRKCI	PTCH1	PTEN	PTPN11	PTPRO	QKI
RAC1	RAD21	RAD51	RAD51B	RAD51C	RAD51D	RAD52	RAD54L
RAF1 Exons 3,4,6, 7,10,14,15,17 Introns 4-8	RARA Intron 2	RB1	RBM10	REL	RET Exons 11,13-16 Introns 7,8,9-11	RICTOR	RNF43
ROS1 Exons 31,36-38,40 Introns 31-35	RPTOR	RSPO2 Intron 1	SDC4 Intron 2	SDHA	SDHB	SDHC	SDHD
SETD2	SF3B1	SGK1	SLC34A2 Intron 4	SMAD2	SMAD4	SMARCA4	SMARCB1
SMO	SNCAIP	SOCS1	SOX2	SOX9	SPEN	SPOP	SRC
STAG2	STAT3	STK11	SUFU	SYK	TBX3	TEK	TERC ncRNA
TERT Promoter	TET2	TGFB2	TIPARP	TMPRSS2 Introns 1-3	TNFAIP3	TNFRSF14	TP53
TSC1	TSC2	TYRO3	U2AF1	VEGFA	VHL	WHSC1 (MMSET)	WT1
XPO1	XRCC2	ZNF217	ZNF703				

Alle Gene, die ein roten Hintergrund haben, sind Gene, bei denen bereits Therapien zugelassen sind oder diese sich zurzeit in klinischer Erprobung befinden.

Bauchspeicheldrüse

Gallenblase

Leber