



CUP

GENLISTE							
ABL1 Exons 4-9	ACVR1B	AKT1 Exon 3	AKT2	<b>AKT3</b>	ALK Exons 20-29 Introns 18,19	ALOX12B	AMER1 (FAM123B)
<b>APC</b>	AR	ARAF Exons 4,5,7, 11,13,15,16	ARFRP1	<b>ARID1A</b>	ASXL1	<b>ATM</b>	ATR
ATRX	AURKA	AURKB	AXIN1	AXL	<b>BAP1</b>	BARD1	BCL2
BCL2L1	<b>BCL2L2</b>	BCL6	BCOR	BCORL1	BCR Introns 8,13,14	<b>BRAF</b> Exons 11-18 Introns 7-10	<b>BRCA1</b> Introns 2,7,8,12, 16,19,20
<b>BRCA2</b> Intron 2	BRD4	BRIP1	BTG1	BTG2	BTK Exons 2,15	C11orf30 (EMSY)	CALR
CARD11	CASP8	CBFB	CBL	<b>CCND1</b>	<b>CCND2</b>	CCND3	<b>CCNE1</b>
CD22	<b>CD274</b> (PD-L1)	CD70	CD74 Introns 6-8	CD79A	CD79B	CDC73	CDH1
<b>CDK12</b>	<b>CDK4</b>	<b>CDK6</b>	CDK8	CDKN1A	CDKN1B	<b>CDKN2A</b>	<b>CDKN2B</b>
CDKN2C	CEBPA	CHEK1	<b>CHEK2</b>	CIC	<b>CREBBP</b>	CRKL	CSF1R
CSF3R	<b>CTCF</b>	CTNNA1	<b>CTNNB1</b> Exon 3	CUL3	CUL4A	CXCR4	CYP17A1
DAXX	DDR1	<b>DDR2</b> Exons 5,17,18	DIS3	DNMT3A	DOTIL	EED	<b>EGFR</b> Introns 7,15,24-27
EP300	EPHA3	EPHB1	EPHB4	<b>ERBB2</b>	<b>ERBB3</b> Exons 3,6-8, 10,12,20, 21,23-25	ERBB4	ERCC4
ERG	<b>ERRF1</b>	<b>ESR1</b> Exons 4-8	ETV4 Intron 8	ETV5 Introns 6,7	<b>ETV6*</b> Introns 5,6	EWSR1 Introns 7-13	<b>EZH2</b> Exons 4,16-18
<b>EZR</b> Introns 9-11	FAM46C	FANCA	FANCC	FANCG	FANCL	FAS	FBXW7
<b>FGF10</b>	FGF12	FGF14	FGF19	FGF23	FGF3	FGF4	FGF6
<b>FGFR1</b> Introns 1,5 Intron 17	<b>FGFR2</b> Intron 7 Intron 17	<b>FGFR3**</b> Exons 7,9	FGFR4	FH	FLCN	FLT1	<b>FLT3</b> Exons 14,15,20
<b>FOXL2</b>	FUBP1	GABRA6	GATA3	GATA4	GATA6	GJD4 (CT7orf39)	<b>GNAI1</b> Exons 4,5
GNA13	<b>GNAQ</b> Exons 4,5	<b>GNAS</b> Exons 1,8	GRM3	GSK3B	H3F3A	HDAC1	HGF
HNF1A	<b>HRAS</b> Exons 2,3	HSD3B1	ID3	<b>IDH1</b> Exon 4	<b>IDH2</b> Exon 4	IGF1R	IKBKE
IKZF1	INPP4B	IRF2	IRF4	IRS2	JAK1	<b>JAK2</b> Exon 14	<b>JAK3</b> Exons 5,11-13, 15,16
JUN	KDM5A	<b>KDM5C</b>	KDM6A	KDR	KEAP1	KEL	<b>KIT</b> Exons 8,9,11,12,13,17 intron 16
KLHL6	KMT2A (MLL) Introns 6, 8-11 Intron 7	<b>KMT2D</b> (MLL2)	<b>KRAS</b>	LTK	LYN	MAF	<b>MAP2K1</b> (MEK1) Exons 2,3

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

Referenzen:  
 1. Varghese, A.M., et al. (2017) Ann Oncol. 28(12): 3015-3021  
 2. Ross, J.S., et al. (2015) JAMA Oncol 1:40-9  
 3. Subbiah, I.M., et al. (2017) Oncoscience 4:47-56.

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