

S2 Table. A list of 244 genes used for targeted sequencing

Gene
<i>ABL1</i>
<i>ABL2</i>
<i>AKT1</i>
<i>AKT2</i>
<i>AKT3</i>
<i>APC</i>
<i>AR</i>
<i>ARAF</i>
<i>ARID1A</i>
<i>ARID2</i>
<i>ASH1L</i>
<i>ASXL1</i>
<i>ASXL3</i>
<i>ATM</i>
<i>ATR</i>
<i>ATRX</i>
<i>AURKA</i>
<i>AURKB</i>
<i>AXL</i>
<i>BAP1</i>
<i>BARD1</i>
<i>BIRC3</i>
<i>BIRC6</i>
<i>BLM</i>
<i>BRAF</i>
<i>BRCA1</i>
<i>BRCA2</i>
<i>BRD3</i>
<i>BRD4</i>
<i>BRD7</i>
<i>BUB1</i>
<i>CASP8</i>
<i>CBL</i>
<i>CCND1</i>
<i>CCND2</i>
<i>CCND3</i>
<i>CCNE1</i>
<i>CDH1</i>

CDH10
CDH9
CDK12
CDK4
CDK6
CDK8
CDKN1B
CDKN2A
CDKN2B
CDKN2C
CEBPA
CEP350
CFTR
CHD2
CHD4
CHD5
CHD7
CHEK1
CHEK2
CREBBP
CRKL
CTNNA1
CTNNA2
CTNNB1
CTNND2
CTSK
CTTN
CUL3
DACH1
DAXX
DDR2
DNMT1
DNMT3A
DNMT3B
DOT1L
DUSP27
EGFR
EP300
EPCAM
EPHA1

EPHA2
EPHA3
EPHA4
EPHA5
EPHA7
EPHB1
EPHB4
ERBB
ERBB2
ERBB3
ERBB4
ERG
EZH2
FAM123B(AMER1)
FAT1
FAT2
FAT3
FAT4
FBN2
FBXW7
FES
FGFR1
FGFR2
FGFR3
FGFR4
FOXP1
GATA1
GATA2
GATA3
GNA11
GNA13
GNAQ
GNAS
GPR98
HDAC1
HDAC2
HDAC3
HDAC5
HDAC6
HDAC7A

HDAC9
HRAS
IDH1
IDH2
IGF1R
IKBKE
IL7R
ITGB1
ITGB3
JAK1
JAK2
JAK3
KDM5A
KDM5C
KDM6A
KDR
KEAP1
KIT
KLHL1
KLHL6
KMT2D
KRAS
LAMA2
LAMA3
LAMB3
LAMC2
MAP2K1
MAP2K2
MAP2K4
MAP3K1
MAP3K8
MAP3K9
MAPK1
MAPK9
MBD1
MBD2
MDM4
MET
MLH1
MLL1 (KMT2A)

MLL2 (MLL4, KMT2D)

MLL3 (KMT2C)

MTOR

MYC

MYCL1 (MYCL)

MYCN

NF1

NF2

NFE2L2

NFKBIA

NKX2-1

NOTCH1

NOTCH2

NPM1

NRAS

NSD1

PAK3

PAK5 (PAK7)

PBRM1

PDGFRA

PDGFRB

PDK1

PIK3C2A

PIK3C2B

PIK3C2G

PIK3C3

PIK3CA

PIK3CB

PIK3CD

PIK3CG

PIK3R1

PIK3R2

PIK3R3

PIK3R6

PPFIA2

PPP2R1A

PRB1

PRB2

PRKCI

PTCH1

PTEN
PTK2B
PTPN11
PTPRD
RAC1
RAD50
RAD51
RAF1
RASSF1A
RB1
RELN
RHOA
RICTOR
RIT1
RPS6KA1
RPTOR
SETD2
SIRT1
SIRT2
SMAD2
SMAD3
SMAD4
SMARCA2
SMARCA4 (BRG1)
SMARCB1
SMO
SOCS1
SOX10
SOX2
SRC
STAT3
STAT4
STK11
STYK1
TERT
TET2
TGFBR2
TOP1
TP53
TP63

TRIO

TSC1

TSC2

VHL

WHSC1L1

XPO1
