

Supplemental Table 1: Genes in with high density coverage in capture library

ABL1
ABL2
ADA
AKT1
AKT2
AKT3
ALDH3A1
ALK
APC
AR
AREG
ARID1A
ARID1B
ASXL1
ATM
ATR
ATRX
AURKA
AXIN2
BAP1
BCL2
BCOR
BIRC2
BMI1
BRAF
BRCA1
BRCA2
BRD1
BRD4
CASP8
CASP9
CCL5
CCND1
CD274
CD3D
CD4
CD52
CD70
CD74
CD8A
CDC7
CDH1
CDH3
CDKN1A
CDKN1B
CDKN2A
CDKN2B
CHEK1

CHEK2
CIC
CTNNB1
CTTN
CUL3
CYLD
DDR1
DICER1
DNMT1
DTX1
E2F1
E2F2
EGFR
ERBB2
ERBB3
ERBB4
ERCC1
ESR1
EWSR1
EZH2
FADD
FANCA
FANCB
FAT1
FBXW7
FGFR1
FGFR2
FGFR3
FGFR4
FHIT
FLT1
FLT3
FLT4
GATA2
GRIN2A
HDAC1
HES1
HES5
HEY1
HEYL
HIF1A
HRAS
ICOS
IDH1
IDH2
IGF1R
IKBKE
IKZF1
IL2RB

ITGB1
JAK2
JAK3
KAT6A
KAT6B
KDM6A
KDR
KEAP1
KIT
KMT2A
KMT2B
KMT2C
KMT2D
KNSTRN
KRAS
KRT16
KRT17
LAD1
LAG3
LAMC2
LCK
LINC00226
LRP1B
MAML1
MAML2
MAP2K1
MAP2K2
MAP2K4
MCL1
MCM10
MCM2
MDM2
MDM4
MEN1
MET
MIRLET7C
MLH1
MMP9
MS4A1
MSH2
MSH6
MYC
MYCL
MYCN
NCAM1
NFE2L2
NFKB1
NFKB2
NOTCH1

NOTCH2
NOTCH3
NOTCH4
NPM1
NRAS
NRG1
NSD1
NTRK1
NTRK2
NTRK3
PALB2
PARP1
PDE4D
PDE4DIP
PDGFRA
PDGFRB
PGR
PIK3CA
PIK3CB
PIK3CD
PIK3CG
PIK3R1
PMS2
POLA1
POLB
PPM1D
PREX2
PRUNE2
PTCH1
PTEN
PTGS2
PTPN11
PTPRCAP
RAC1
RAF1
RARA
RB1
RET
RICTOR
RPA2
RRM1
RSPO2
RSPO3
RUNX1
RUNX1T1
RXRB
SLC16A1
SLC2A1
SMAD2

SMARCA4
SMO
SOCS1
SOX2
SRC
TERT
TET1
TET2
TGFA
TGFBR2
TGIF1
TK1
TNF
TOP1
TOP2A
TOP2B
TP53
TP63
TRAF3
TSC1
TSC2
TWIST1
TYMS
UBE2B
UGT1A1
VHL
VIM
WHSC1
WT1
YAP1
YEATS4
ZNF750