Supplementary Table 1: List of 275 Cancer Genes Included in Panel for Next Generation Sequencing

ABL1

ACVR1B

AKT1

AKT2

AKT3

ALK

AMER1

APC

AR

ARAF

ARID1A

ARID1B

ARID2

ASXL1

ATM

ATR

ATRX

AURKA

AURKB

AURKC

AXIN1

AXIN2

B2M

BAP1

BCL2

BCL2L1

BCL6

BCOR

BCORL1

BCR

BIRC3

BLM

BRAF

BRCA1

BRCA2

BRIP1

BTK

CALR

CARD11

CBL

CBLB

CBLC

CCND1

CCND3

CCNE1

CD274

CD79A

CD79B

CDC73

CDH1

CDK12

CDK4

CDK6

CDKN2A

CDKN2B

CDKN2C

CEBPA

CHEK1

CHEK2

CIC

CREBBP

CRLF2

CSF1R

CSF3R

CTCF

CTNNA1

CTNNB1

CUX1

CXCR4

CYLD

DAXX

DDR2

DICER1

DNM2

DNMT3A

DOT1L

EED

EGFR

EGLN1

EP300

EPAS1

EPHA3

EPHA5

ERBB2

ERBB3

ERBB4

ERG

ESR1

ETV6

EXO1

EZH2

FAM175A

FAM46C

FANCA

FANCC

FANCD2

FANCE

FANCF

FANCG

FAS

FBXW7

FGF4

FGF6

FGFR1

FGFR2

FGFR3

FGFR4

FH

FLCN

FLT3

FLT4

FOXL2

FUBP1

GALNT12

GATA1

GATA2

GATA3

GEN1

GNA11

GNAQ

GNAS

GREM1

GRIN2A

H3F3A

HGF

HIST1H3B

HNF1A

HOXB13

HRAS

HSP90AA1

ID3

IDH1

IDH2

IGF1R

IKZF1

IKZF3

IL7R

INHBA

IRF4

JAK1

JAK2

JAK3

KAT6A

KDM5C

KDM6A

KDR

KEAP1

KIT

KMT2A

KMT2B

KMT2C

KMT2D

KRAS

LRP1B

MAP2K1

MAP2K2

MAP2K4

MAP3K1

MAP3K14

MAPK1

MCL1

MDM2

MDM4

MED12

MEF2B

MEN1

MET

MITF

MLH1

MPL

MRE11A

MSH2

MSH6

MTOR

MUTYH

MYC

MYCL

MYCN

MYD88

NF1

NF2

NFE2L2

NFKBIA

NKX2-1

NOTCH1

NOTCH2

NOTCH3

NPM1

NRAS

NSD1

NTRK1

NTRK2

NTRK3

PAK3

PALB2

PAX5

PBRM1

PDGFRA

PDGFRB

PHF6

PIK3CA

PIK3R1

PIK3R2

PIM1

PLCG1

PMS1

PMS2

POLD1

POLE

PPM1D

PPP2R1A

PRDM1

PRKAR1A

PRKDC

PRSS1

PTCH1

PTEN

PTPN11

RAC1

RAD21

RAD50

RAD51

RAF1

RB1

RET

RHEB

RHOA

RIT1

RNF43

ROS1

RUNX1

SDHB

SETBP1

SETD2

SF3B1

SMAD2

SMAD4

SMARCA4

SMARCB1

SMC1A

SMC3

SMO

SOCS1

SOX2

SOX9

SPOP

SRC

SRSF2

STAG2

STAT3

STK11

SUFU

SUZ12

TAL1

TCF3

TERT

TET2

TGFBR2

TNFAIP3

TNFRSF14

TP53

TRAF3

TSC1

TSC2

TSHR

U2AF1

U2AF2

VHL

WHSC1

WT1

XPO1

XRCC2

XRCC3

ZNF217

ZRSR2