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Gene symbol	Small variants	Focal amplifications	Fusions (from RNA)
ABL1	✓	-	✓
ABL2	✓	-	-
ACVR1	✓	-	-
ACVR1B	✓	-	-
AKT1	✓	-	-
AKT2	✓	✓	-
AKT3	✓	-	✓
ALK	✓	✓	✓
ALOX12B	✓	-	-
ANKRD11	✓	-	-
ANKRD26	✓	-	-
APC	✓	-	-
AR	✓	✓	✓
ARAF	✓	-	-
ARFRP1	✓	-	-
ARID1A	✓	-	-
ARID1B	✓	-	-
ARID2	✓	-	-
ARID5B	✓	-	-
ASXL1	✓	-	-
ASXL2	✓	-	-
ATM	✓	✓	-
ATR	✓	-	-
ATRX	✓	-	-
AURKA	✓	-	-
AURKB	✓	-	-
AXIN1	✓	-	-
AXIN2	✓	-	-
AXL	✓	-	✓
B2M	✓	-	-
BAP1	✓	-	-
BARD1	✓	-	-
BBC3	✓	-	-
BCL10	✓	-	-
BCL2	✓	-	✓
BCL2L1	✓	-	-
BCL2L11	✓	-	-
BCL2L2	✓	-	-
BCL6	✓	-	-
BCOR	✓	-	-
BCORL1	✓	-	-
BCR	✓	-	-
BIRC3	✓	-	-

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Gene symbol	Small variants	Focal amplifications	Fusions (from RNA)
BLM	✓	-	-
BMPR1A	✓	-	-
BRAF	✓	✓	✓
BRCA1	✓	✓	✓
BRCA2	✓	✓	✓
BRD4	✓	-	-
BRIP1	✓	-	-
BTG1	✓	-	-
BTK	✓	-	-
C11orf30	✓	-	-
CALR	✓	-	-
CARD11	✓	-	-
CASP8	✓	-	-
CBFB	✓	-	-
CBL	✓	-	-
CCND1	✓	✓	-
CCND2	✓	-	-
CCND3	✓	✓	-
CCNE1	✓	✓	-
CD274	✓	-	-
CD276	✓	-	-
CD74	✓	-	-
CD79A	✓	-	-
CD79B	✓	-	-
CDC73	✓	-	-
CDH1	✓	-	-
CDK12	✓	-	-
CDK4	✓	✓	✓
CDK6	✓	✓	-
CDK8	✓	-	-
CDKN1A	✓	-	-
CDKN1B	✓	-	-
CDKN2A	✓	-	-
CDKN2B	✓	-	-
CDKN2C	✓	-	-
CEBPA	✓	-	-
CENPA	✓	-	-
CHD2	✓	-	-
CHD4	✓	-	-
CHEK1	✓	✓	-
CHEK2	✓	✓	-
CIC	✓	-	-
CREBBP	✓	-	-

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Gene symbol	Small variants	Focal amplifications	Fusions (from RNA)
CRKL	✓	-	-
CRLF2	✓	-	-
CSF1R	✓	-	✓
CSF3R	✓	-	-
CSNK1A1	✓	-	-
CTCF	✓	-	-
CTLA4	✓	-	-
CTNNA1	✓	-	-
CTNNB1	✓	-	-
CUL3	✓	-	-
CUX1	✓	-	-
CXCR4	✓	-	-
CYLD	✓	-	-
DAXX	✓	-	-
DCUN1D1	✓	-	-
DDR2	✓	-	-
DDX41	✓	-	-
DHX15	✓	-	-
DICER1	✓	-	-
DIS3	✓	-	-
DNAJB1	✓	-	-
DNMT1	✓	-	-
DNMT3A	✓	-	-
DNMT3B	✓	-	-
DOT1L	✓	-	-
E2F3	✓	-	-
EED	✓	-	-
EGFL7	✓	-	-
EGFR	✓	✓	✓
EIF1AX	✓	-	-
EIF4A2	✓	-	-
EIF4E	✓	-	-
EML4	✓	-	✓
EP300	✓	-	-
EPCAM	✓	-	-
EPHA3	✓	-	-
EPHA5	✓	-	-
EPHA7	✓	-	-
EPHB1	✓	-	-
ERBB2	✓	✓	✓
ERBB3	✓	✓	-
ERBB4	✓	-	-
ERCC1	✓	✓	-

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Gene symbol	Small variants	Focal amplifications	Fusions (from RNA)
ERCC2	✓	✓	-
ERCC3	✓	-	-
ERCC4	✓	-	-
ERCC5	✓	-	-
ERG	✓	-	✓
ERRFI1	✓	-	-
ESR1	✓	✓	✓
ETS1	✓	-	✓
ETV1	✓	-	✓
ETV4	✓	-	✓
ETV5	✓	-	✓
ETV6	✓	-	-
EWSR1	✓	-	✓
EZH2	✓	-	-
FAM123B	✓	-	-
FAM175A	✓	-	-
FAM46C	✓	-	-
FANCA	✓	-	-
FANCC	✓	-	-
FANCD2	✓	-	-
FANCE	✓	-	-
FANCF	✓	-	-
FANCG	✓	-	-
FANCI	✓	-	-
FANCL	✓	-	-
FAS	✓	-	-
FAT1	✓	-	-
FBXW7	✓	-	-
FGF1	✓	✓	-
FGF10	✓	✓	-
FGF14	✓	✓	-
FGF19	✓	✓	-
FGF2	✓	✓	-
FGF23	✓	✓	-
FGF3	✓	✓	-
FGF4	✓	✓	-
FGF5	✓	✓	-
FGF6	✓	✓	-
FGF7	✓	✓	-
FGF8	✓	✓	-
FGF9	✓	✓	-
FGFR1	✓	✓	✓
FGFR2	✓	✓	✓

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Gene symbol	Small variants	Focal amplifications	Fusions (from RNA)
FGFR3	✓	✓	✓
FGFR4	✓	✓	✓
FH	✓	-	-
FLCN	✓	-	-
FLI1	✓	-	✓
FLT1	✓	-	✓
FLT3	✓	-	✓
FLT4	✓	-	-
FOXA1	✓	-	-
FOXL2	✓	-	-
FOXO1	✓	-	-
FOXP1	✓	-	-
FRS2	✓	-	-
FUBP1	✓	-	-
FYN	✓	-	-
GABRA6	✓	-	-
GATA1	✓	-	-
GATA2	✓	-	-
GATA3	✓	-	-
GATA4	✓	-	-
GATA6	✓	-	-
GEN1	✓	-	-
GID4	✓	-	-
GLI1	✓	-	-
GNA11	✓	-	-
GNA13	✓	-	-
GNAQ	✓	-	-
GNAS	✓	-	-
GPR124	✓	-	-
GPS2	✓	-	-
GREM1	✓	-	-
GRIN2A	✓	-	-
GRM3	✓	-	-
GSK3B	✓	-	-
H3F3A	✓	-	-
H3F3B	✓	-	-
H3F3C	✓	-	-
HGF	✓	-	-
HIST1H1C	✓	-	-
HIST1H2BD	✓	-	-
HIST1H3A	✓	-	-
HIST1H3B	✓	-	-
HIST1H3C	✓	-	-

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Gene symbol	Small variants	Focal amplifications	Fusions (from RNA)
HIST1H3D	✓	-	-
HIST1H3E	✓	-	-
HIST1H3F	✓	-	-
HIST1H3G	✓	-	-
HIST1H3H	✓	-	-
HIST1H3I	✓	-	-
HIST1H3J	✓	-	-
HIST2H3A	✓	-	-
HIST2H3C	✓	-	-
HIST2H3D	✓	-	-
HIST3H3	✓	-	-
HLA-A	*	-	-
HLA-B	*	-	-
HLA-C	*	-	-
HNF1A	✓	-	-
HNRNPK	✓	-	-
HOXB13	✓	-	-
HRAS	✓	-	-
HSD3B1	✓	-	-
HSP90AA1	✓	-	-
ICOSLG	✓	-	-
ID3	✓	-	-
IDH1	✓	-	-
IDH2	✓	-	-
IFNGR1	✓	-	-
IGF1	✓	-	-
IGF1R	✓	-	-
IGF2	✓	-	-
IKBKE	✓	-	-
IKZF1	✓	-	-
IL10	✓	-	-
IL7R	✓	-	-
INHA	✓	-	-
INHBA	✓	-	-
INPP4A	✓	-	-
INPP4B	✓	-	-
INSR	✓	-	-
IRF2	✓	-	-
IRF4	✓	-	-
IRS1	✓	-	-
IRS2	✓	-	-
JAK1	✓	-	-
JAK2	✓	✓	✓

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Gene symbol	Small variants	Focal amplifications	Fusions (from RNA)
JAK3	✓	-	-
JUN	✓	-	-
KAT6A	✓	-	-
KDM5A	✓	-	-
KDM5C	✓	-	-
KDM6A	✓	-	-
KDR	✓	-	✓
KEAP1	✓	-	-
KEL	✓	-	-
KIF5B	✓	-	✓
KIT	✓	✓	✓
KLF4	✓	-	-
KLHL6	✓	-	-
KMT2B	*	-	-
KMT2C	*	-	-
KMT2D	*	-	-
KRAS	✓	✓	-
LAMP1	✓	✓	-
LATS1	✓	-	-
LATS2	✓	-	-
LMO1	✓	-	-
LRP1B	✓	-	-
LYN	✓	-	-
LZTR1	✓	-	-
MAGI2	✓	-	-
MALT1	✓	-	-
MAP2K1	✓	-	-
MAP2K2	✓	-	-
MAP2K4	✓	-	-
MAP3K1	✓	-	-
MAP3K13	✓	-	-
MAP3K14	✓	-	-
MAP3K4	✓	-	-
MAPK1	✓	-	-
MAPK3	✓	-	-
MAX	✓	-	-
MCL1	✓	-	-
MDC1	✓	-	-
MDM2	✓	✓	-
MDM4	✓	✓	-
MED12	✓	-	-
MEF2B	✓	-	-
MEN1	✓	-	-

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Gene symbol	Small variants	Focal amplifications	Fusions (from RNA)
MET	✓	✓	✓
MGA	✓	-	-
MITF	✓	-	-
MLH1	✓	-	-
MLL	✓	-	✓
MLLT3	✓	-	✓
MPL	✓	-	-
MRE11A	✓	-	-
MSH2	✓	-	✓
MSH3	✓	-	-
MSH6	✓	-	-
MST1	✓	-	-
MST1R	✓	-	-
MTOR	✓	-	-
MUTYH	✓	-	-
MYB	✓	-	-
MYC	✓	✓	✓
MYCL1	✓	✓	-
MYCN	✓	✓	-
MYD88	✓	-	-
MYOD1	✓	-	-
NAB2	✓	-	-
NBN	✓	-	-
NCOA3	✓	-	-
NCOR1	✓	-	-
NEGR1	✓	-	-
NF1	✓	-	-
NF2	✓	-	-
NFE2L2	✓	-	-
NFKBIA	✓	-	-
NKX2-1	✓	-	-
NKX3-1	✓	-	-
NOTCH1	✓	-	✓
NOTCH2	✓	-	✓
NOTCH3	✓	-	✓
NOTCH4	✓	-	-
NPM1	✓	-	-
NRAS	✓	✓	-
NRG1	✓	✓	✓
NSD1	✓	-	-
NTRK1	✓	-	✓
NTRK2	✓	-	✓
NTRK3	✓	-	✓

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Gene symbol	Small variants	Focal amplifications	Fusions (from RNA)
NUP93	✓	-	-
NUTM1	✓	-	-
PAK1	✓	-	-
PAK3	✓	-	-
PAK7	✓	-	-
PALB2	✓	-	-
PARK2	✓	-	-
PARP1	✓	-	-
PAX3	✓	-	✓
PAX5	✓	-	-
PAX7	✓	-	✓
PAX8	✓	-	-
PBRM1	✓	-	-
PDCD1	✓	-	-
PDCD1LG2	✓	-	-
PDGFRA	✓	✓	✓
PDGFRB	✓	✓	✓
PDK1	✓	-	-
PDPK1	✓	-	-
PGR	✓	-	-
PHF6	✓	-	-
PHOX2B	✓	-	-
PIK3C2B	✓	-	-
PIK3C2G	✓	-	-
PIK3C3	✓	-	-
PIK3CA	✓	✓	✓
PIK3CB	✓	✓	-
PIK3CD	✓	-	-
PIK3CG	✓	-	-
PIK3R1	✓	-	-
PIK3R2	✓	-	-
PIK3R3	✓	-	-
PIM1	✓	-	-
PLCG2	✓	-	-
PLK2	✓	-	-
PMAIP1	✓	-	-
PMS1	✓	-	-
PMS2	✓	-	-
PNRC1	✓	-	-
POLD1	✓	-	-
POLE	✓	-	-
PPARG	✓	-	✓
PPM1D	✓	-	-

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Gene symbol	Small variants	Focal amplifications	Fusions (from RNA)
PPP2R1A	✓	-	-
PPP2R2A	✓	-	-
PPP6C	✓	-	-
PRDM1	✓	-	-
PREX2	✓	-	-
PRKAR1A	✓	-	-
PRKCI	✓	-	-
PRKDC	✓	-	-
PRSS8	✓	-	-
PTCH1	✓	-	-
PTEN	✓	✓	-
PTPN11	✓	-	-
PTPRD	✓	-	-
PTPRS	✓	-	-
PTPRT	✓	-	-
QKI	✓	-	-
RAB35	✓	-	-
RAC1	✓	-	-
RAD21	✓	-	-
RAD50	✓	-	-
RAD51	✓	-	-
RAD51B	✓	-	-
RAD51C	✓	-	-
RAD51D	✓	-	-
RAD52	✓	-	-
RAD54L	✓	-	-
RAF1	✓	✓	✓
RANBP2	✓	-	-
RARA	✓	-	-
RASA1	✓	-	-
RB1	✓	-	-
RBM10	✓	-	-
RECQL4	✓	-	-
REL	✓	-	-
RET	✓	✓	✓
RFWD2	✓	-	-
RHEB	✓	-	-
RHOA	✓	-	-
RICTOR	✓	✓	-
RIT1	✓	-	-
RNF43	✓	-	-
ROS1	✓	-	✓
RPS6KA4	✓	-	-

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Gene symbol	Small variants	Focal amplifications	Fusions (from RNA)
RPS6KB1	✓	✓	✓
RPS6KB2	✓	-	-
RPTOR	✓	-	-
RUNX1	✓	-	-
RUNX1T1	✓	-	-
RYBP	✓	-	-
SDHA	✓	-	-
SDHAF2	✓	-	-
SDHB	✓	-	-
SDHC	✓	-	-
SDHD	✓	-	-
SETBP1	✓	-	-
SETD2	✓	-	-
SF3B1	✓	-	-
SH2B3	✓	-	-
SH2D1A	✓	-	-
SHQ1	✓	-	-
SLIT2	✓	-	-
SLX4	✓	-	-
SMAD2	✓	-	-
SMAD3	✓	-	-
SMAD4	✓	-	-
SMARCA4	✓	-	-
SMARCB1	✓	-	-
SMARCD1	✓	-	-
SMC1A	✓	-	-
SMC3	✓	-	-
SMO	✓	-	-
SNCAIP	✓	-	-
SOCS1	✓	-	-
SOX10	✓	-	-
SOX17	✓	-	-
SOX2	✓	-	-
SOX9	✓	-	-
SPEN	✓	-	-
SPOP	✓	-	-
SPTA1	✓	-	-
SRC	✓	-	-
SRSF2	✓	-	-
STAG1	✓	-	-
STAG2	✓	-	-
STAT3	✓	-	-
STAT4	✓	-	-

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Gene symbol	Small variants	Focal amplifications	Fusions (from RNA)
STAT5A	✓	-	-
STAT5B	✓	-	-
STK11	✓	-	-
STK40	✓	-	-
SUFU	✓	-	-
SUZ12	✓	-	-
SYK	✓	-	-
TAF1	✓	-	-
TBX3	✓	-	-
TCEB1	✓	-	-
TCF3	✓	-	-
TCF7L2	✓	-	-
TERC	✓	-	-
TERT	✓	-	-
TET1	✓	-	-
TET2	✓	-	-
TFE3	✓	-	-
TFRC	✓	✓	-
TGFBR1	✓	-	-
TGFBR2	✓	-	-
TMEM127	✓	-	-
TMPRSS2	✓	-	✓
TNFAIP3	✓	-	-
TNFRSF14	✓	-	-
TOP1	✓	-	-
TOP2A	✓	-	-
TP53	✓	-	-
TP63	✓	-	-
TRAF2	✓	-	-
TRAF7	✓	-	-
TSC1	✓	-	-
TSC2	✓	-	-
TSHR	✓	-	-
U2AF1	✓	-	-
VEGFA	✓	-	-
VHL	✓	-	-
VTCN1	✓	-	-
WISP3	✓	-	-
WT1	✓	-	-
XIAP	✓	-	-
XPO1	✓	-	-
XRCC2	✓	-	-
YAP1	✓	-	-

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Gene symbol	Small variants	Focal amplifications	Fusions (from RNA)
YES1	✓	-	-
ZBTB2	✓	-	-
ZBTB7A	✓	-	-
ZFHX3	✓	-	-
ZNF217	✓	-	-
ZNF703	✓	-	-
ZRSR2	✓	-	-

** Small variants found in gVCF file only*