

Table S1 Gene lists of ctDNA somatic mutation/methylation profiling

ACVR1B, ACVR2A, AKT1, AKT2, AKT3, ALK, APC, AR, ARAF, ARID1A, ARID2, ATM, ATR, ATRX, AXIN1, AXIN2, B2M, BAGE, BAP1, BARD1, BMPR1A, BRAF, BRCA1, BRCA2, BRIP1, CARD11, CASP8, CBL, CCND1, CCND2, CCNE1, CD160, CD274, CD79A, CDH1, CDK12, CDK4, CDK6, CDKN2A, CHEK2, CREBBP, CRKL, CTNNA1, CTNNB1, CUL3, DDR2, EGFR, ELF3, EP300, EPCAM, EPHA3, EPHB1, ERBB2, ERBB3, ERBB4, ERCC2, ESR1, ETV1, EZH2, FANCA, FBXW7, FGF14, FGF19, FGF3, FGF4, FGFR1, FGFR2, FGFR3, FGFR4, FH, FLT1, FLT3, FLT4, FOXA2, FOXL2, FOXP1, GABRA6, GATA2, GATA3, GATA4, GNA11, GNAQ, GNAS, GRM3, HAVCR2, HGF, H1-2 | HIST1H1C, HNF1A, HRAS, ICOS, IDH1, IDH2, IGF1R, IKZF1, IL7R, INPP4B, ITK, KDM5A, KDR, KEAP1, KEL, KIT, KMT2C, KMT2D, KRAS, LEF1, LIMK1, LRRK2, LYN, MAGEA12, MAGEA4, MAP2K1, MAP2K2, MAP2K4, MAPK1, MDM2, MED12, MEF2B, MET, MLH1, MPL, MSH2, MSH3, MSH6, MTOR, BCL2L11, MYC, MYCN, MYD88, NAV3, NBN, NCOA4, NCOR1, NF1, NF2, NFE2L2, NKX2-1, NOTCH1, NOTCH2, NOTCH3, NOTCH4, NRAS, NTRK1, NTRK2, NTRK3, PALB2, PBRM1, PDCD1, PDCD1LG2, PDGFRA, PDGFRB, PDK1, PIK3C2G, PIK3CA, PIK3CB, PIK3R1, PIK3R2, PMS1, PMS2, POLD1, POLE, POLQ, PPP2R1A, PRKN | PARK2, PRX, PTCH1, PTEN, PTPN11, PTPRD, PTPRT, RAD50, RAD51B, RAD51C, RAD51D, RAD54L, RAF1, RB1, RBM10, RECQL4, RET, RNF43, ROS1, RPL5, SDHA, SETBP1, SETD2, SF3B1, SGK1, SH2D1A, SMAD4, SMARCA4, SMARCB1, SMC1A, SMO, SOCS1, SOX17, SOX2, SOX9, SPOP, STAT3, STK11, TBX3, TERT, TET2, TGFB1, TGFB2, TLR4, TP53, TSC1, TSC2, TSHZ2, TSHZ3, U2AF1, VEGFB, WT1, XPO1, NRG1, LTK

ctDNA, circulating tumor DNA.