

## **QIAseq Targeted cfDNA Ultra Human Actionable Solid Tumor Panel (YHS-101Z)**

### **Product Specifications**

**Exons:** KIT, NRAS, PDGFRA, PIK3CA, PMS2CL.

**Exons & Hotspots:** PMS2.

**Hotspots:** ABL1, AKT1, ALB, ALK, APOB, AR, ARAF, ARID1A, ARID2, ATM, AXIN1, BRAF, CCND1, CCNE1, CDH1, CDKN2A, CHEK2, CREBBP, CSF1R, CSF3R, CTNNB1, DPYD, ERBB3, ERCC1, ERCC2, ESR1, EZH2, FANCM, FBXW7, FGFR2, FGFR3, FLT3, FOXA1, FOXL2, GNAS, HRAS, IDH1, IDH2, JAK1, JAK2, KDM6A, KEAP1, KMT2D, MAP2K1, MAPK1, MED12, MPL, MSH6, MYC, MYD88, NF2, NFE2L2, NOTCH1, NTRK1, PIK3R1, POLE, PPP2R1A, PTPN11, RB1, RET, RIT1, RNF43, ROS1, RRAS, RRAS2, RUNX1, SF3B1, SMAD4, SPOP, SRSF2, STAT3, STK11, TCF7L2, TGFB2, TSC2, U2AF1, UGT1A1.

**Promoter:** TERT.

**Promoter & Hotspots:** APC, MLH1, MSH2, PTEN.

**Whole Coding:** BRCA1, BRCA2, EGFR, ERBB2, KRAS, MET, TP53.

**Bladder Cancers:** AKT1, ARID1A, ATM, BRAF, CCND1, CCNE1, CDKN2A, CTNNB1, ERBB2, ERBB3, ERCC2, FGFR2, FGFR3, HRAS, JAK2, KDM6A, KRAS, MPL, PIK3CA, PTEN, RB1, TP53, U2AF1.

**Brain Cancers:** ALK, APC, BRAF, BRCA2, CDKN2A, CHEK2, CREBBP, CTNNB1, EGFR, ERBB2, FGFR3, IDH1, IDH2, KIT, KRAS, MET, MLH1, MSH2, MYC, NF2, NOTCH1, NRAS, PDGFRA, PIK3CA, PMS2, PMS2CL, PTEN, PTPN11, RB1, STK11, TERT, TP53.

**Breast Cancers:** AKT1, AR, ARAF, ATM, BRCA1, BRCA2, CCND1, CDH1, CHEK2, EGFR, ERBB2, ERBB3, ESR1, FBXW7, FGFR2, FLT3, JAK2, KIT, KRAS, MET, MLH1, MPL, MSH2, MSH6, MYC, PDGFRA, PIK3CA, PMS2, PMS2CL, PPP2R1A, PTEN, RUNX1, SF3B1, STK11, TP53, U2AF1.

**Cervical Cancers:** ARAF, MAPK1, MPL.

**Colorectal Cancers:** AKT1, APC, ARID1A, ATM, BRAF, BRCA1, BRCA2, CDKN2A, CHEK2, CSF1R, CTNNB1, DPYD, EGFR, ERBB2, ERBB3, ERCC1, ESR1, FBXW7, FGFR3, FLT3, GNAS, HRAS, JAK2, KIT, KRAS, MAP2K1, MET, MLH1, MPL, MSH2, MSH6, MYC, NRAS, PDGFRA, PIK3CA, PMS2, PMS2CL, POLE, PTEN, RET, RNF43, SMAD4, SRSF2, STK11, TCF7L2, TGFB2, TP53, UGT1A1.

**Gastric Cancers:** APC, ARAF, ARID1A, BRAF, CDH1, CDKN2A, CTNNB1, ERBB2, ERBB3, FBXW7, GNAS, JAK2, KIT, KMT2D, KRAS, MET, MPL, MYC, PDGFRA, PIK3CA, PTEN, RNF43, SMAD4, SRSF2, TP53.

**Liver Cancers:** ALB, APC, APOB, ARID1A, ARID2, AXIN1, BRAF, CCND1, CDKN2A, CREBBP, CTNNB1, IDH1, IDH2, JAK1, JAK2, KEAP1, KRAS, MYC, NFE2L2, NRAS, PIK3CA, RB1, RIT1, TP53, TSC2.

**Lung Cancers:** ABL1, AKT1, ALK, ARAF, ATM, BRAF, BRCA1, BRCA2, CCND1, CDKN2A, CHEK2, CSF3R, CTNNB1, EGFR, ERBB2, FGFR3, FLT3, HRAS, IDH1, JAK2, KIT, KRAS, MAP2K1, MET, MLH1, MPL, MSH2, MSH6, MYC, NF2, NRAS, NTRK1, PDGFRA, PIK3CA, PMS2, PMS2CL, PTEN, RB1, RET, ROS1, RRAS, STK11, TP53, TSC2, U2AF1.

**Lymphomas:** ARID1A, ATM, BRAF, CCND1, CDKN2A, CHEK2, CREBBP, EZH2, GNAS, IDH1, IDH2, JAK1, KMT2D, MAP2K1, MYC, MYD88, NOTCH1, NRAS, PIK3CA, SF3B1, STAT3, TP53.

**Melanomas:** ARID2, ATM, BRAF, BRCA1, BRCA2, CCND1, CDKN2A, CHEK2, CREBBP, CTNNB1, EGFR, EZH2, HRAS, IDH1, KIT, KRAS, MAP2K1, MLH1, MSH2, MSH6, NRAS, PDGFRA, PIK3CA, PTEN, RB1, TP53.

**Ovarian Cancers:** AKT1, ARID1A, ATM, BRAF, BRCA1, BRCA2, CCND1, CCNE1, CDH1, CDKN2A, CHEK2, CTNNB1, ERBB2, ERBB3, ERCC1, FANCM, FBXW7, FGFR2, FGFR3, FOXL2, KIT, KRAS, MLH1, MPL, MSH2, MSH6, MYC, PDGFRA, PIK3CA, PIK3R1, PMS2, PMS2CL, POLE, PPP2R1A, PTEN, RB1, RRAS2, STK11, TP53.

**Pancreatic Cancers:** APC, ARID1A, ATM, BRAF, BRCA1, BRCA2, CDKN2A, CTNNB1, ERBB2, ERBB3, FBXW7, GNAS, JAK2, KDM6A, KRAS, MET, MLH1, MSH2, MSH6, MYC, NRAS, PIK3CA, PMS2, PMS2CL, POLE, PTEN, RNF43, SMAD4, STK11, TCF7L2, TP53, U2AF1.

**Prostate Cancers:** AKT1, APC, AR, ARAF, ATM, BRAF, BRCA1, BRCA2, CHEK2, CTNNB1, FOXA1, HRAS, IDH1, JAK2, KDM6A, KMT2D, KRAS, MED12, MLH1, MPL, MSH2, MSH6, MYC, PIK3CA, PIK3R1, PMS2, PMS2CL, PTEN, RB1, SPOP, TP53, U2AF1.