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| Supplemental Table 1. | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Genes in F1H DNA Panel. | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Genes with full coding exonic regions for detection of substitutions, indels, and copy number alterations | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |
| ABI1 | ACTB | ADGRA2 | AKT1 | AKT2 | AKT3 | ALK | AMER1 | APC | APH1A | AR | ARAF | ARFRP1 | ARHGAP26 | ARID1A | ARID2 | ASMTL | ASXL1 | ATM | ATR |  |
| ATRX | AURKA | AURKB | AXIN1 | AXL | B2M | BAP1 | BARD1 | BCL10 | BCL11B | BCL2 | BCL2L2 | BCL6 | BCOR | BCORL1 | BIRC3 | BLM | BRAF | BRCA1 | BRCA2 |  |
| BRD4 | BRIP1 | BRSK1 | BTG1 | BTG2 | BTK | BTLA | C11orf30 | C17orf39 | CAD | CARD11 | CBFB | CBL | CCND1 | CCND2 | CCND3 | CCNE1 | CCT6B | CD22 | CD274 |  |
| CD36 | CD58 | CD70 | CD79A | CD79B | CDC73 | CDH1 | CDK12 | CDK4 | CDK6 | CDK8 | CDKN1B | CDKN2A | CDKN2B | CDKN2C | CEBPA | CHEK1 | CHEK2 | CIC | CIITA |  |
| CKS1B | CPS1 | CREBBP | CRKL | CRLF2 | CSF1R | CSF3R | CTCF | CTNNA1 | CTNNB1 | CUX1 | CXCR4 | DAXX | DDR2 | DDX3X | DNM2 | DNMT3A | DOT1L | DTX1 | DUSP2 |  |
| DUSP9 | E2A | EBF1 | ECT2L | EED | EGFR | ELP2 | EMSY | EP300 | EPHA3 | EPHA5 | EPHA7 | EPHB1 | ERBB2 | ERBB3 | ERBB4 | ERG | ESR1 | ETO | ETS1 |  |
| ETV6 | EXOSC6 | EZH2 | FAF1 | FAM123B | FAM46C | FANCA | FANCC | FANCD2 | FANCE | FANCF | FANCG | FANCL | FAS | FBXO11 | FBXO31 | FBXW7 | FGF10 | FGF14 | FGF19 |  |
| FGF23 | FGF3 | FGF4 | FGF6 | FGFR1 | FGFR2 | FGFR3 | FGFR4 | FHIT | FLCN | FLT1 | FLT3 | FLT4 | FLYWCH1 | FOXL2 | FOXO1 | FOXO3 | FOXP1 | FRS2 | GADD45B |  |
| GATA1 | GATA2 | GATA3 | GID4 | GNA11 | GNA12 | GNA13 | GNAQ | GNAS | GPR124 | GRAF | GRIN2A | GSK3B | GTSE1 | HDAC1 | HDAC4 | HDAC7 | HGF | HIST1H1C | HIST1H1D |  |
| HIST1H1E | HIST1H2AC | HIST1H2AG | HIST1H2AL | HIST1H2AM | HIST1H2BC | HIST1H2BJ | HIST1H2BK | HIST1H2BO | HIST1H3B | HNF1A | HRAS | HSP90AA1 | ICK | ID3 | IDH1 | IDH2 | IKBKE | IKZF1 | IKZF2 |  |
| IKZF3 | IL7R | INHBA | INPP4B | INPP5D | IRF1 | IRF4 | IRF8 | IRS2 | JAK1 | JAK2 | JAK3 | JARID2 | JUN | KAT6A | KDM2B | KDM4C | KDM5A | KDM5C | KDM6A |  |
| KDR | KEAP1 | KIT | KLHL6 | KMT2A | KMT2C | KRAS | LEF1 | LMO1 | LRP1B | LRRK2 | MAF | MAFB | MAGED1 | MALT1 | MAP2K1 | MAP2K2 | MAP2K4 | MAP3K1 | MAP3K14 |  |
| MAP3K6 | MAP3K7 | MAPK1 | MCL1 | MDM2 | MDM4 | MED12 | MEF2B | MEF2C | MEN1 | MET | MIB1 | MITF | MKI67 | MLH1 | MLL | MLL3 | MMSET | MPL | MRE11 |  |
| MRE11A | MSH2 | MSH3 | MSH6 | MTOR | MUTYH | MYC | MYCL | MYCL1 | MYCN | MYD88 | MYO18A | MYST3 | NCOR2 | NCSTN | NF1 | NF2 | NFE2L2 | NFKBIA | NKX2-1 |  |
| NOD1 | NOTCH1 | NOTCH2 | NPM1 | NRAS | NSD1 | NSD2 | NT5C2 | NTRK1 | NTRK2 | NTRK3 | NUP93 | NUP98 | P2RY8 | PAG1 | PAK3 | PALB2 | PASK | PAX5 | PBRM1 |  |
| PC | PCBP1 | PCLO | PDCD1 | PDCD11 | PDCD1LG2 | PDGFRA | PDGFRB | PDK1 | PDL1 | PDL2 | PHF6 | PIK3CA | PIK3CG | PIK3R1 | PIK3R2 | PIM1 | POT1 | POU2AF1 | PRDM1 |  |
| PRKAR1A | PRKDC | PRSS8 | PTCH1 | PTEN | PTPN11 | PTPN2 | PTPN6 | PTPRO | RAD21 | RAD50 | RAD51 | RAF1 | RARA | RASGEF1A | RB1 | RELN | RET | RHOA | RICTOR |  |
| RNF43 | ROS1 | RPTOR | RUNX1 | RUNX1T1 | S1PR2 | SDHA | SDHB | SDHC | SDHD | SERP2 | SETBP1 | SETD2 | SF3B1 | SGK1 | SHIP | SHP-1 | SMAD2 | SMAD4 | SMARCA1 |  |
| SMARCA4 | SMARCB1 | SMC1A | SMC3 | SMO | SOCS1 | SOCS2 | SOCS3 | SOX10 | SOX2 | SPEN | SPOP | SRC | SRSF2 | STAG2 | STAT3 | STAT4 | STAT5A | STAT5B | STAT6 |  |
| STK11 | SUFU | SUZ12 | SYK | TAF1 | TBL1XR1 | TCF3 | TCL1 | TCL1A | TET2 | TGFBR2 | TLL2 | TMEM30A | TMSB4XP8 | TMSL3 | TNFAIP3 | TNFRSF11A | TNFRSF14 | TNFRSF17 | TNFRSF6 |  |
| TOP1 | TP53 | TP63 | TRAF2 | TRAF3 | TRAF5 | TSC1 | TSC2 | TUSC3 | TYK2 | U2AF1 | U2AF2 | VHL | WDR90 | WHSC1 | WISP3 | WT1 | WTX | XBP1 | XPO1 |  |
| YY1AP1 | ZMYM2 | ZNF217 | ZNF24 | ZNF703 | ZRSR2 | ZSCAN3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Genes with select intronic regions | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ALK | BCL2 | BCL6 | BCR | BRAF | CCND1 | CRLF2 | EGFR | EPOR | ETV1 | ETV4 | ETV5 | ETV6 | EWSR1 | FGFR2 | IGH | IGK | IGL | JAK1 | JAK2 |  |
| KMT2A | MLL | MYC | NTRK1 | PDGFRA | PDGFRB | RAF1 | RARA | RET | ROS1 | TMPRSS2 | TRG |  |  |  |  |  |  |  |  |  |
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