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| **Institutions** | **NGS panel** |
| Geisinger | ABL1, ANKRD26, ASXL1, ATRX, BCOR, BCORL1, BRAF, BTK, CALR, CBL, CBLB, CBLC, CCND2, CDC25C, CDKN2A, CEBPA, CSF3R, CUX1, CXCR4, DCK, DDX41, DHX15, DNMT3A, ENTK1, ETV6, EZH2, FBXW7, FLT3, GATA1, GATA2, GNAS, HRAS, IDH1, IDH2, IKZF1, JAK2, JAK3, KDM6A, KIT, KMT2A, KRAS, LUC7L2, MAP2K1, MPL, MYC, MYD88, NF1, NOTCH1, NPM1, NRAS, PDGFRA, PHF6, PPM1D, PTEN, PTPN11, RAD21, RBBP6, RPS14, RUNX1, SETBP1, SF3B1, SH2B3, SLC29A1, SMC1A, SMC3, SRSF2, STAG2, STAT3, TET2, TP53, U2AF1, U2AF2, WT1, XPO1, and ZRSR2. |
| Moffitt | ABL1, ASXL1, ATRX, BCOR, BCORL1, BRAF, CALR, CBL, CBLB, CBLC, CDKN2A, CEBPA, CSF3R, CUX1, DNMT3A, ETV6, EZH2, FBXW7, FLT3, GATA1, GATA2, GNAS, HRAS, IDH1, IDH2, IKZF1, JAK2, JAK3, KDM6A, KIT, KMT2A, KRAS, MPL, MYD88, NOTCH1, NPM1, NRAS, PDGFRA, PHF6, PTEN, PTPN11, RAD21,RUNX1, SETBP1, SF3B1, SMC1A, SMC3, SRSF2, STAG2, TET2, TP53, U2AF1, WT1 and ZRSR2 |
| City of hope | ABL1, ARID1A, ASXL1, ATM, B2M, BCL2, BCL6, BCOR, BCORL1, BIRC3, BRAF, BTK, CALR, CARD11, CBL, CBLB, CCND1, CCND3, CD38, CD3E, CD3G, CD79A, CD79B, CDK4, CDK7, CDKN1B, CDKN2A, CDKN2B, CDKN2C, CEBPA, CHD2, CRBN, CREBBP, CSF3R, CUX1, CXCR4, DDx3x, DIS3, DNMT3A, E2F1, EGFR, EP300, ETV6, EZH2, FBXW7, FGFR3 , FH, FLT3, FAM46C, FOXO1, GATA1, GATA2, GNA13, GNAS, HCK, HRAS, ID3, IDH1, IDH2, IGLL5, IKZF1, IL6, IL7R IRF4, JAK1, JAK2, JAK3, KDM6A, KIT, KMT2A, KMT2C, KMT2D, KRAS, LCK, LMO2, MAPK1, MEF2B, MGA, MIR142, MPL, MYC, MYD88, NFKB2, NOTCH1, NOTCH2, NPM1, NRAS, NTRK1, PAX5, PDCD1, PDGFRA, PHF6, PIGA, PIK3CA, PIK3CD, PIK3CG, PIK3R5, PLCG2, POT1, PRDM1, PTEN, PTK2B, PTPN11, RAD21, RB1, RFC4, RPS15, RUNX1, SETBP1, SF3B1, SMC1A, SMC3, SOCS1, SOCS6, SPI1, SRSF2, STAG2, STAT3, STAT5A, STAT5B, STAT6, SUZ12, TCF3, TET2, TNFAIP3, TP53, TP63, U2AF1, UBR5, WHSC1, WHSC1L1, WT1, XPO1, ZEB1, ZRSR2 |
| Yale | ABL1, ALK, ASXL1, ATRX, BCOR, BCORL1, BRAF [partial sequencing of gene regions with known mutations], BRCC3, CALR [partial sequencing of gene regions with known mutations], CBL, CEBPA, CSF3R, DNMT3A, EED, EP300, ETV6, EZH2, FLT3 [partial sequencing of gene regions with known mutations], GATA1, GATA2, IDH1 [partial sequencing of gene regions with known mutations], IDH2 [partial sequencing of gene regions with known mutations], JAK2, KIT, KRAS, MPL, MYC, NF1, NPM1 [partial sequencing of gene regions with known mutations], NRAS, PDGFRA, PDS5B, PHF6 PRPF8, PTPN11, RAD21, RUNX1, SETBP1, SF3B1, SMC1A, SMC3, SRSF2, STAG1, STAG2, TET2, TP53, U2AF1, WT1, ZRSR2 |
| ARUP | ANKRD26, ASXL1, ASXL2, BCOR, BCORL1, BRAF, CALR, CBL, CBLB, CEBPA, CSF3R, CUX1, DDX41, DNMT1, DNMT3A, ELANE, ETNK1, ETV6, EZH2, FBXW7, FLT3, GATA1, GATA2, GNAS, HNRNPK, IDH1, IDH2, IL7R, JAK1, JAK2, JAK3, KDM6A, KIT, KMT2A, KRAS, LUC7L2, MPL, NOTCH1, NPM1, NRAS, NSD1, PHF6, PIGA, PRPF40B, PRPF8, PTPN11, RAD21, RUNX1, SETBP1, SF3B1, SH2B3, SMC1A, SMC3, SRSF2, STAG2, STAT3, STAT5B, SUZ12, TET2, TP53, U2AF1, U2AF2, WT1, ZRSR2 |
| KUMC | ABL1, ADA, ANKRD26, ASXL1, ASXL2, ATM, ATRX, BCL6BCOR, BCORL1, BCR, BIRC3, BLM, BRAF, BRCA1, BRCA2, BRINP3, C17orf97, CALR, CARD11, CBL, CBLB, CBLC, CDKN2ACEBPA, CHEK2, CREBBP, CRLF2, CSF1R, CSF3R, CTCF, CUX1, DAXX, DDX41, DNM2, DNMT1, DNMT3A, EED, EGFR, ELANEEP300, ETNK1, ETV6, EZH2, FAM154B, FAM47A, FAS, FBXW7FLRT2, FLT3, GATA1, GATA2, GJB3, GNAS, HNRNPK, HRASIDH1, IDH2, IKZF1, IKZF3, IL7R, JAK1, JAK2, JAK3, KAT6AKCNA4, KCNK13, KDM6A, KDR, KIT, KLHDC8B, KLHL6, KMT2A, KMT2C, KRAS, LRRC4, LUC7L2, MAP2K1, MLH1, MPLMSH2, MSH6, MYC, MYD88, NBN, NF1, NOTCH1, NPAT, NPM1NRAS, NSD1, NTRK3, OR13H1, OR8B12, P2RY2, PAX5, PCDHB1PDGFRA, PHF6, PML, PMS2, PRAMEF2, PRF1, PRPF40B, PRPF8, PTEN, PTPN11, RAD21, RB1, RELN, RUNX1, SETBP1, SF1, SF3A1, SF3B1, SH2B3, SH2D1A, SMARCB1, SMC1A, SMC3SRP72, SRSF2, STAG2, STAT3, STXBP2, SUZ12, TAL1, TERCTERT, TET2, TNFRSF13B, TP53, TPMT, TUBA3C, U2AF1, U2AF2WAS, WRN, WT1, XPO1, ZRSR2 |

Supplemental table 1. Next generation sequencing (NGS) panels per institution.