

Technical Specifications

FoundationOne®Heme is a qualitative next-generation sequencing based laboratory developed test (LDT) for detection of substitutions, insertion and deletion alterations (indels), copy number alterations (CNAs), select gene rearrangements, and genomic signatures including microsatellite instability (MSI) and tumor mutational burden (TMB). FoundationOne Heme uses DNA and RNA isolated from formalin-fixed, paraffin-embedded (FFPE) tumor specimens, as well as from peripheral blood (PB), bone marrow aspirate (BMA) specimens and cytology smear specimens. FoundationOne Heme is intended to provide cancer genomic mutation profiling to be used by qualified health care professionals in accordance with professional guidelines in oncology for patients with hematologic neoplasms and solid tumors. Genomic findings are not prescriptive or conclusive for labeled use of any specific therapeutic product.



Methods

- Uses hybrid capture-based next-generation sequencing.
- Identifies the four main classes of genomic alterations (base substitutions, insertions and deletions, copy number alterations, and rearrangements).
- Sequences complete coding region of 406 genes using DNA, including introns of 31 select genes involved in rearrangements, to a median depth of ~500X unique coverage.
- Sequences RNA of 265 genes commonly rearranged in cancer to better identify known and novel gene fusions to an average ~6.9 million unique pairs.
- All specimens are reviewed by a hematopathologist or anatomic pathologist to ensure specimen viability and tumor content.

Performance Characteristics			
Limit of Detection (LoD)	Base Substitutions	5% VAF	
	Insertions/Deletions	10% VAF	
	Copy-number Alterations (Amplifications or losses)	30% tumor purity	
	Gene Fusions and Rearrangements (DNA and RNA)	25 reads	
Limit of Blank (LoB)	No variants detected in tumor adjacent normal FFPE tissue		
Precision (Reproducibility and Repeatability)	Targeted Short Variants (Base substitutions and InDels)	100%	
	Targeted Gene Fusions and Rearrangements (DNA and RNA)	100%	
	Targeted Copy-number Alterations (Amplifications or loss)	100%	
Concordance (≥ LoD)	Targeted Variants (all)	PPA: 97.5%	NPA: 99.9%
	Base Substitutions	PPA: 99.1%	NPA: 99.9%
	Insertions/Deletions	PPA: 98.3%	NPA: 99.8%
	Copy Number Amplifications	PPA: 87.7%	NPA: 100%
	Copy Number Losses	PPA: 91.5%	NPA: 99.9%
	Gene Fusions and Rearrangements	PPA: 91.8%	NPA: 99.7%
	Tumor Mutational Burden (TMB)	OPA: 97.4%	
	Microsatellite Instability Status (MSI)	OPA: 100%	

• Note: Concordance data compares the NovaSeq configuration to the original HiSeq configuration. Accuracy study comparing HiSeq configuration to a reference CLIA-certified test demonstrated a PPA of 99% PPA and NPA of 98%. For details, please refer to the article, He, J. et al. Integrated genomic DNA/RNA profiling of hematologic malignancies in the clinical setting. Blood. (2016 June 16).



Reporting

- Test results are provided in an interpretive report, curated by biomedical informatics scientists, and approved by board-certified and licensed pathologists and hematopathologists with molecular genetic pathology expertise.
- Genomic findings are listed with clinically relevant targeted therapies, immunotherapies, and clinical trial options.
- Reported alterations may indicate response or lack of response to therapy (FDA-approved or in clinical trials) or may be unambiguous drivers of oncogenesis based on reported scientific literature.
- Reports include tumor mutational burden (TMB) status and microsatellite instability (MSI) status, biomarkers that may help predict response to checkpoint inhibitors.



FoundationOne Heme Gene List

DNA Gene List With Complete Exonic (Coding) Coverage (Base Substitutions, Indels, Copy number Alterations)¹

<i>ABL1</i>	<i>BRCA2</i>	<i>CKS1B</i>	<i>FAM46C</i>	<i>GNA13</i>	<i>IRF8</i>	<i>MEF2C</i>
<i>ACTB</i>	<i>BRD4</i>	<i>CPS1</i>	<i>FANCA</i>	<i>GNAQ</i>	<i>IRS2</i>	<i>MEN1</i>
<i>AKT1</i>	<i>BRIP1 (BACH1)</i>	<i>CREBBP</i>	<i>FANCC</i>	<i>GNAS</i>	<i>JAK1</i>	<i>MET</i>
<i>AKT2</i>	<i>BRSK1</i>	<i>CRKL</i>	<i>FANCD2</i>	<i>GPR124</i>	<i>JAK2</i>	<i>MIB1</i>
<i>AKT3</i>	<i>BTG2</i>	<i>CRLF2</i>	<i>FANCE</i>	<i>GRIN2A</i>	<i>JAK3</i>	<i>MITF</i>
<i>ALK</i>	<i>BTK</i>	<i>CSF1R</i>	<i>FANCF</i>	<i>GSK3B</i>	<i>JARID2</i>	<i>MKI67</i>
<i>AMER1</i>	<i>BTLA</i>	<i>CSF3R</i>	<i>FANCG</i>	<i>GTSE1</i>	<i>JUN</i>	<i>MLH1</i>
<i>(FAM123B or WTX)</i>	<i>C11orf30 (EMSY)</i>	<i>CTCF</i>	<i>FANCL</i>	<i>HDAC1</i>	<i>KAT6A (MYST3)</i>	<i>MPL</i>
<i>APC</i>	<i>CAD</i>	<i>CTNNA1</i>	<i>FAS (TNFRSF6)</i>	<i>HDAC4</i>	<i>KDM2B</i>	<i>MRE11A</i>
<i>APH1A</i>	<i>CALR</i>	<i>CTNNB1</i>	<i>FBXO11</i>	<i>HDAC7</i>	<i>KDM4C</i>	<i>MSH2</i>
<i>AR</i>	<i>CARD11</i>	<i>CUX1</i>	<i>FBXO31</i>	<i>HGF</i>	<i>KDM5A</i>	<i>MSH3</i>
<i>ARAF</i>	<i>CBFB</i>	<i>CXCR4</i>	<i>FBXW7</i>	<i>HIST1H1C</i>	<i>KDM5C</i>	<i>MSH6</i>
<i>ARFRP1</i>	<i>CBL</i>	<i>DAXX</i>	<i>FGF10</i>	<i>HIST1H1D</i>	<i>KDM6A</i>	<i>MTOR</i>
<i>ARHGAP26</i>	<i>CCND1</i>	<i>DDR2</i>	<i>FGF14</i>	<i>HIST1H1E</i>	<i>KDR</i>	<i>MUTYH</i>
<i>(GRAF)</i>	<i>CCND2</i>	<i>DDX3X</i>	<i>FGF19</i>	<i>HIST1H2AC</i>	<i>KEAP1</i>	<i>MYC</i>
<i>ARID1A</i>	<i>CCND3</i>	<i>DNM2</i>	<i>FGF23</i>	<i>HIST1H2AG</i>	<i>KIT</i>	<i>MYCL (MYCL1)</i>
<i>ARID2</i>	<i>CCNE1</i>	<i>DNMT3A</i>	<i>FGF3</i>	<i>HIST1H2AL</i>	<i>KLHL6</i>	<i>MYCN</i>
<i>ASMTL</i>	<i>CCT6B</i>	<i>DOT1L</i>	<i>FGF4</i>	<i>HIST1H2AM</i>	<i>KMT2A (MLL)</i>	<i>MYD88</i>
<i>ASXL1</i>	<i>CD22</i>	<i>DTX1</i>	<i>FGF6</i>	<i>HIST1H2BC</i>	<i>KMT2C (MLL3)</i>	<i>MYO18A</i>
<i>ATM</i>	<i>CD274 (PD-L1)</i>	<i>DUSP2</i>	<i>FGFR1</i>	<i>HIST1H2BJ</i>	<i>KMT2D (MLL2)</i>	<i>NCOR2</i>
<i>ATR</i>	<i>CD36</i>	<i>DUSP9</i>	<i>FGFR2</i>	<i>HIST1H2BK</i>	<i>KRAS</i>	<i>NCSTN</i>
<i>ATRX</i>	<i>CD58</i>	<i>EBF1</i>	<i>FGFR3</i>	<i>HIST1H2BO</i>	<i>LEF1</i>	<i>NF1</i>
<i>AURKA</i>	<i>CD70</i>	<i>ECT2L</i>	<i>FGFR4</i>	<i>HIST1H3B</i>	<i>LRP1B</i>	<i>NF2</i>
<i>AURKB</i>	<i>CD79A</i>	<i>EED</i>	<i>FHIT</i>	<i>HNF1A</i>	<i>LRRK2</i>	<i>NFE2L2</i>
<i>AXIN1</i>	<i>CD79B</i>	<i>EGFR</i>	<i>FLCN</i>	<i>HRAS</i>	<i>MAF</i>	<i>NFKBIA</i>
<i>AXL</i>	<i>CDC73</i>	<i>ELP2</i>	<i>FLT1</i>	<i>HSP90AA1</i>	<i>MAFB</i>	<i>NKX2-1</i>
<i>B2M</i>	<i>CDH1</i>	<i>EP300</i>	<i>FLT3</i>	<i>ICK</i>	<i>MAGED1</i>	<i>NOD1</i>
<i>BAP1</i>	<i>CDK12</i>	<i>EPHA3</i>	<i>FLT4</i>	<i>ID3</i>	<i>MALT1</i>	<i>NOTCH1</i>
<i>BARD1</i>	<i>CDK4</i>	<i>EPHA5</i>	<i>FLYWCH1</i>	<i>IDH1</i>	<i>MAP2K1 (MEK1)</i>	<i>NOTCH2</i>
<i>BCL10</i>	<i>CDK6</i>	<i>EPHA7</i>	<i>FOXL2</i>	<i>IDH2</i>	<i>MAP2K2 (MEK2)</i>	<i>NPM1</i>
<i>BCL11B</i>	<i>CDK8</i>	<i>EPHB1</i>	<i>FOXO1</i>	<i>IGF1R</i>	<i>MAP2K4</i>	<i>NRAS</i>
<i>BCL2</i>	<i>CDKN1B</i>	<i>ERBB2</i>	<i>FOXO3</i>	<i>IKBKE</i>	<i>MAP3K1</i>	<i>NSD1</i>
<i>BCL2L2</i>	<i>CDKN2A</i>	<i>ERBB3</i>	<i>FOXP1</i>	<i>IKZF1</i>	<i>MAP3K14</i>	<i>NT5C2</i>
<i>BCL6</i>	<i>CDKN2B</i>	<i>ERBB4</i>	<i>FRS2</i>	<i>IKZF2</i>	<i>MAP3K6</i>	<i>NTRK1</i>
<i>BCL7A</i>	<i>CDKN2C</i>	<i>ERG</i>	<i>GADD45B</i>	<i>IKZF3</i>	<i>MAP3K7</i>	<i>NTRK2</i>
<i>BCOR</i>	<i>CEBPA</i>	<i>ESR1</i>	<i>GATA1</i>	<i>IL7R</i>	<i>MAPK1</i>	<i>NTRK3</i>
<i>BCORL1</i>	<i>CHD2</i>	<i>ETS1</i>	<i>GATA2</i>	<i>INHBA</i>	<i>MCL1</i>	<i>NUP93</i>
<i>BIRC3</i>	<i>CHEK1</i>	<i>ETV6</i>	<i>GATA3</i>	<i>INPP4B</i>	<i>MDM2</i>	<i>NUP98</i>
<i>BLM</i>	<i>CHEK2</i>	<i>EXOSC6</i>	<i>GID4 (C17orf39)</i>	<i>INPP5D (SHIP)</i>	<i>MDM4</i>	<i>P2RY8</i>
<i>BRAF</i>	<i>CIC</i>	<i>EZH2</i>	<i>GNA11</i>	<i>IRF1</i>	<i>MED12</i>	<i>PAG1</i>
<i>BRCA1</i>	<i>CIITA</i>	<i>FAF1</i>	<i>GNA12</i>	<i>IRF4</i>	<i>MEF2B</i>	<i>PAK3</i>



FoundationOne Heme Gene List (Continued)

<i>PALB2</i>	<i>PIM1</i>	<i>RARA</i>	<i>SETD2</i>	<i>SRC</i>	<i>TMEM30A</i>	<i>U2AF1</i>
<i>PASK</i>	<i>PLCG2</i>	<i>RASGEF1A</i>	<i>SF3B1</i>	<i>SRSF2</i>	<i>TMSB4XP8</i>	<i>U2AF2</i>
<i>PAX5</i>	<i>POT1</i>	<i>RB1</i>	<i>SGK1</i>	<i>STAG2</i>	(<i>TMSL3</i>)	<i>VHL</i>
<i>PBRM1</i>	<i>PPP2R1A</i>	<i>RELN</i>	<i>SMAD2</i>	<i>STAT3</i>	<i>TNFAIP3</i>	<i>WDR90</i>
<i>PC</i>	<i>PRDM1</i>	<i>RET</i>	<i>SMAD4</i>	<i>STAT4</i>	<i>TNFRSF11A</i>	<i>WHSC1</i>
<i>PCBP1</i>	<i>PRKAR1A</i>	<i>RHOA</i>	<i>SMARCA1</i>	<i>STAT5A</i>	<i>TNFRSF14</i>	(<i>MMSET</i> or <i>NSD2</i>)
<i>PCLO</i>	<i>PRKDC</i>	<i>RICTOR</i>	<i>SMARCA4</i>	<i>STAT5B</i>	<i>TNFRSF17</i>	<i>WISP3</i>
<i>PDCD1</i> (<i>PD-1</i>)	<i>PRSS8</i>	<i>RNF43</i>	<i>SMARCB1</i>	<i>STAT6</i>	<i>TOP1</i>	<i>WT1</i>
<i>PDCD11</i>	<i>PTCH1</i>	<i>ROS1</i>	<i>SMC1A</i>	<i>STK11</i>	<i>TP53</i>	<i>XBP1</i>
<i>PDCD1LG2</i> (<i>PD-L2</i>)	<i>PTEN</i>	<i>RPTOR</i>	<i>SMC3</i>	<i>SUFU</i>	<i>TP63</i>	<i>XPO1</i>
<i>PDGFRA</i>	<i>PTPN11</i>	<i>RUNX1</i>	<i>SMO</i>	<i>SUZ12</i>	<i>TRAF2</i>	<i>YY1AP1</i>
<i>PDGFRB</i>	<i>PTPN2</i>	<i>SIPR2</i>	<i>SOCS1</i>	<i>TAF1</i>	<i>TRAF3</i>	<i>ZMYM3</i>
<i>PDK1</i>	<i>PTPN6</i> (<i>SHP-1</i>)	<i>SDHA</i>	<i>SOCS2</i>	<i>TBL1XR1</i>	<i>TRAF5</i>	<i>ZNF217</i>
<i>PHF6</i>	<i>PTPRO</i>	<i>SDHB</i>	<i>SOCS3</i>	<i>TCF3</i> (<i>E2A</i>)	<i>TSC1</i>	<i>ZNF24</i> (<i>ZSCAN3</i>)
<i>PIK3CA</i>	<i>RAD21</i>	<i>SDHC</i>	<i>SOX10</i>	<i>TCL1A</i> (<i>TCL1</i>)	<i>TSC2</i>	<i>ZNF703</i>
<i>PIK3CG</i>	<i>RAD50</i>	<i>SDHD</i>	<i>SOX2</i>	<i>TET2</i>	<i>TSHR</i>	<i>ZRSR2</i>
<i>PIK3R1</i>	<i>RAD51</i>	<i>SERP2</i>	<i>SPEN</i>	<i>TGFBF2</i>	<i>TUSC3</i>	
<i>PIK3R2</i>	<i>RAF1</i>	<i>SETBP1</i>	<i>SPOP</i>	<i>TLL2</i>	<i>TYK2</i>	

| Rearrangements with Select Intronic (Non-Coding) Coverage²

<i>ALK</i>	<i>CCND1</i>	<i>ETV4</i>	<i>IGH</i>	<i>KMT2A</i> (<i>MLL</i>)	<i>RAF1</i>	<i>TRG</i>
<i>BCL2</i>	<i>CRLF2</i>	<i>ETV5</i>	<i>IGK</i>	<i>MYC</i>	<i>RARA</i>	
<i>BCL6</i>	<i>EGFR</i>	<i>ETV6</i>	<i>IGL</i>	<i>NTRK1</i>	<i>RET</i>	
<i>BCR</i>	<i>EPOR</i>	<i>EWSR1</i>	<i>JAK1</i>	<i>PDGFRA</i>	<i>ROS1</i>	
<i>BRAF</i>	<i>ETV1</i>	<i>FGFR2</i>	<i>JAK2</i>	<i>PDGFRB</i>	<i>TPRPS2</i>	

| Genes with RNA Sequencing Coverage (Fusions)

Please note, some VUS* rearrangements between targeted genes and unknown fusion partners may not be reported.

<i>ABI1</i>	<i>BCL3</i>	<i>CHIC2</i>	<i>EGFR</i>	<i>FGFR1</i>	<i>HLF</i>	<i>ITK</i>
<i>ABL1</i>	<i>BCL6</i>	<i>CHN1</i>	<i>EIF4A2</i>	<i>FGFR10P</i>	<i>HMGA1</i>	<i>JAK1</i>
<i>ABL2</i>	<i>BCL7A</i>	<i>CIC</i>	<i>ELF4</i>	<i>FGFR2</i>	<i>HMGA2</i>	<i>JAK2</i>
<i>ACSL6</i>	<i>BCL9</i>	<i>CIITA</i>	<i>ELL</i>	<i>FGFR3</i>	<i>HOXA11</i>	<i>JAK3</i>
<i>AFF1</i>	<i>BCOR</i>	<i>CLP1</i>	<i>ELN</i>	<i>FLI1</i>	<i>HOXA13</i>	<i>JAZF1</i>
<i>AFF4</i>	<i>BCR</i>	<i>CLTC</i>	<i>EML4</i>	<i>FNBP1</i>	<i>HOXA3</i>	<i>KAT6A</i> (<i>MYST3</i>)
<i>ALK</i>	<i>BIRC3</i>	<i>CLTCL1</i>	<i>EP300</i>	<i>FOXO1</i>	<i>HOXA9</i>	<i>KDSR</i>
<i>ARHGAP26</i>	<i>BRAF</i>	<i>CNTRL</i> (<i>CEP110</i>)	<i>EPOR</i>	<i>FOXO3</i>	<i>HOXC11</i>	<i>KIF5B</i>
(<i>GRAF</i>)	<i>BTG1</i>	<i>COL1A1</i>	<i>EPS15</i>	<i>FOXO4</i>	<i>HOXC13</i>	<i>KMT2A</i> (<i>MLL</i>)
<i>ARHGEF12</i>	<i>CAMTA1</i>	<i>CREB3L1</i>	<i>ERBB2</i>	<i>FOXP1</i>	<i>HOXD11</i>	<i>LASP1</i>
<i>ARID1A</i>	<i>CARS</i>	<i>CREB3L2</i>	<i>ERG</i>	<i>FSTL3</i>	<i>HOXD13</i>	<i>LCPI</i>
<i>ARNT</i>	<i>CBFA2T3</i>	<i>CREBBP</i>	<i>ETS1</i>	<i>FUS</i>	<i>HSP90AA1</i>	<i>LMO1</i>
<i>ASXL1</i>	<i>CBFB</i>	<i>CRLF2</i>	<i>ETV1</i>	<i>GAS7</i>	<i>HSP90AB1</i>	<i>LMO2</i>
<i>ATF1</i>	<i>CBL</i>	<i>CSF1</i>	<i>ETV4</i>	<i>GLI1</i>	<i>IGH</i>	<i>LPP</i>
<i>ATG5</i>	<i>CCND1</i>	<i>CTNNB1</i>	<i>ETV5</i>	<i>GMPS</i>	<i>IGK</i>	<i>LYL1</i>
<i>ATIC</i>	<i>CCND2</i>	<i>DDIT3</i>	<i>ETV6</i>	<i>GPHN</i>	<i>IGL</i>	<i>MAF</i>
<i>BCL10</i>	<i>CCND3</i>	<i>DDX10</i>	<i>EWSR1</i>	<i>HERPUD1</i>	<i>IKZF1</i>	<i>MAFB</i>
<i>BCL11A</i>	<i>CD274</i> (<i>PD-L1</i>)	<i>DDX6</i>	<i>FCGR2B</i>	<i>HEY1</i>	<i>IL21R</i>	<i>MALT1</i>
<i>BCL11B</i>	<i>CDK6</i>	<i>DEK</i>	<i>FCRL4</i>	<i>HIP1</i>	<i>IL3</i>	<i>MDS2</i>
<i>BCL2</i>	<i>CDX2</i>	<i>DUSP22</i>	<i>FEV</i>	<i>HIST1H4I</i>	<i>IRF4</i>	<i>MECOM</i>



FoundationOne Heme Gene List (Continued)

<i>MKL1</i>	<i>NDRG1</i>	<i>PAX3</i>	<i>PRDM1</i>	<i>RUNX1T1</i> (ETO)	<i>TAL1</i>	<i>TRIM24</i>
<i>MLF1</i>	<i>NF1</i>	<i>PAX5</i>	<i>PRDM16</i>	<i>RUNX2</i>	<i>TAL2</i>	<i>TRIP11</i>
<i>MLLT1</i> (ENL)	<i>NF2</i>	<i>PAX7</i>	<i>PRRX1</i>	<i>SEC31A</i>	<i>TBL1XR1</i>	<i>TTL</i>
<i>MLLT10</i> (AF10)	<i>NFKB2</i>	<i>PBX1</i>	<i>PSIP1</i>	<i>SEPT5</i>	<i>TCF3</i> (E2A)	<i>TYK2</i>
<i>MLLT3</i>	<i>NIN</i>	<i>PCM1</i>	<i>PTCH1</i>	<i>SEPT6</i>	<i>TCL1A</i> (TCL1)	<i>USP6</i>
<i>MLLT4</i> (AF6)	<i>NOTCH1</i>	<i>PCSK7</i>	<i>PTK7</i>	<i>SEPT9</i>	<i>TEC</i>	<i>WHSC1</i>
<i>MLLT6</i>	<i>NPM1</i>	<i>PDCD1LG2</i> (PD-L2)	<i>RABEP1</i>	<i>SET</i>	<i>TET1</i>	(MMSET or NSD2)
<i>MN1</i>	<i>NR4A3</i>	<i>PDE4DIP</i>	<i>RAF1</i>	<i>SH3GL1</i>	<i>TFE3</i>	<i>WHSC1L1</i>
<i>MXN1</i>	<i>NSD1</i>	<i>PDGFB</i>	<i>RALGDS</i>	<i>SLC1A2</i>	<i>TFG</i>	<i>YPEL5</i>
<i>MSI2</i>	<i>NTRK1</i>	<i>PDGFRA</i>	<i>RAP1GDS1</i>	<i>SNX29</i> (RUNDC2A)	<i>TFPT</i>	<i>ZBTB16</i>
<i>MSN</i>	<i>NTRK2</i>	<i>PDGFRB</i>	<i>RARA</i>	<i>SRSF3</i>	<i>TFRC</i>	<i>ZMYM2</i>
<i>MUC1</i>	<i>NTRK3</i>	<i>PER1</i>	<i>RBM15</i>	<i>SS18</i>	<i>TLX1</i>	<i>ZNF384</i>
<i>MYB</i>	<i>NUMA1</i>	<i>PHF1</i>	<i>RET</i>	<i>SSX1</i>	<i>TLX3</i>	<i>ZNF521</i>
<i>MYC</i>	<i>NUP214</i>	<i>PICALM</i>	<i>RHOH</i>	<i>SSX2</i>	<i>TMPRSS2</i>	
<i>MYH11</i>	<i>NUP98</i>	<i>PIM1</i>	<i>RNF213</i>	<i>SSX4</i>	<i>TNFRSF11A</i>	
<i>MYH9</i>	<i>NUTM2A</i>	<i>PLAG1</i>	<i>ROS1</i>	<i>STAT6</i>	<i>TOP1</i>	
<i>NACA</i>	<i>OMD</i>	<i>PML</i>	<i>RPL22</i>	<i>STL</i>	<i>TP63</i>	
<i>NBEAP1</i> (BCL8)	<i>P2RY8</i>	<i>POU2AF1</i>	<i>RPN1</i>	<i>SYK</i>	<i>TPM3</i>	
<i>NCOA2</i>	<i>PAFAH1B2</i>	<i>PPP1CB</i>	<i>RUNX1</i>	<i>TAF15</i>	<i>TPM4</i>	

• VUS: Variants of Unknown Significance

FoundationOne Heme is a laboratory developed test that was developed and its performance characteristics determined by Foundation Medicine. FoundationOne Heme has not been cleared or approved by the U.S. Food and Drug Administration. For more information on FoundationOne Heme, please visit foundationmedicine.com/heme.

References:

1. Current as of April 2024. Please visit foundationmedicine.com/heme for the most up to date gene list.
2. Select introns only. Detailed list available upon request.



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