

Advanced Standard of Care

Myeloid testing uses Next Generation Sequencing (NGS) to gain insights into the driving mechanisms of an individual patient's hematological malignancy.

Patients with hematologic malignancies who may benefit the most are:

- Patients with morphologic and/or clinical suspicion of a myeloid disease
- Relapsed or refractory patients
- Intermediate or cyto-normal Acute Myeloid Leukemia
- Patients who present with atypical disease based on age and other clinical factors
- Any transformed or blast phase disease

Diagnostic, Predictive, Prognostic, Therapeutic

All hematologic cancers are genomic diseases fueled by molecular alterations – each with their own unique genomic profile. Utilizing this profile within the continuum of care enables physicians to individualize treatment by providing important prognostic stratification and potentially matching a patient with the most effective therapy or trial—creating personalized, more precise cancer management.

- 65 genes, including 21 genes recommended in the NCCN guidelines

About Gateway

PierianDx's Gateway Lab Services allows you to access and customize a range of assays right out of the box. This service delivers clinically validated Next-Generation Sequencing (NGS) tests for a range of cancers and inherited diseases. Gateway Lab Services allows you to:

- **Enhance your brand** by making personalized medicine your competitive advantage
- **Ease transition** into fully-integrated NGS lab capabilities
- **Expend no capital outlay** to get started
- **Provide speed to market** – you focus on your long-term NGS testing strategy while we help you implement today

Specimen Requirements

2.5mL peripheral blood or bone marrow aspirate in a EDTA lavender-top tube

Turnaround Time

5 - 7 days from specimen receipt

Tailored Genomic Myeloid Profile

Gene Name	Sequencing Region
ABL1	Codons 244-493
ASXL1	Codons 630-643, 1102-1107
ATM	All protein coding regions plus splice sites
ATRX	Exons 8-31
BCORL1	All protein coding regions plus splice sites
BRAF	Codons 464-472, 581-602
CALR	Exon 9
CBL	Codons 371-384, 416-420
CCND1	Exon 1, 2
CCND3	Codons 260-289
CDKN2A	All protein coding regions plus splice sites
CEBPA	All protein coding regions plus splice sites
CRLF2	All protein coding regions plus splice sites
CSF3R	Exons 14-17
CTNNB1	Codons 23-66
CUX1	All protein coding regions plus splice sites
DDX3X	Codons 330-341, 410-411
DNMT3A	All protein coding regions plus splice sites
ETV6	All protein coding regions plus splice sites
EZH2	All protein coding regions plus splice sites
FGFR3	Codons 248-250, 370-393, 650-652, 697
FLT3	Codons 569-613 (ITD), 835
GATA1	Codons 1-30
GATA2	All protein coding regions plus splice sites
GATA3	Codons 309-445
GNAS	Exons 8,9
HRAS	Codons 12-13, 61, 117
IDH1	Codon 132
IDH2	Codons 140, 172
IKZF1	All protein coding regions plus splice sites
IL7R	Codons 237-245
JAK2	Exons 12-14
KDM6A	All protein coding regions plus splice sites
KIT	Exons 9, 14, codons 416-422, 541-546, 550-592, 642, 796-850

Gene Name	Sequencing Region
KRAS	Codons 12-13, 61, 117, 146
MAP2K1	Codons 56-67, 121-124
MPL	Codons 490-522
NF1	All protein coding regions plus splice sites
NF2	All protein coding regions plus splice sites
NOTCH1	"Codons 1574-1578, 1585-1607, 1674-1680, 2438-2444, 2459-2467, 2492-2503, 2512-2523
NPM1	Codons 287-292
NRAS	Codons 12-13, 61, 117, 146
PHF6	All protein coding regions plus splice sites
PRDM1	Codons 59-62
PTEN	All protein coding regions plus splice sites
PTPN11	Codons 60-76, 502-503
RAD21	All protein coding regions plus splice sites
RUNX1	All protein coding regions plus splice sites
SETBP1	Codons 852-892
SETD2	All protein coding regions plus splice sites
SF3A1	Codon 478
SF3B1	Exons 13-16
SH2B3	Exons 1-3
SMC1A	All protein coding regions plus splice sites
SMC3	All protein coding regions plus splice sites
SRSF2	Codons 95-107
STAG2	All protein coding regions plus splice sites
STK11	Codons 36-37, 60-66, 170-171, 194-199, 281-282, 354
SUZ12	All protein coding regions plus splice sites
TET2	All protein coding regions plus splice sites
TP53	All protein coding regions plus splice sites
U2AF1	Codons 34-35, 156-160
U2AF2	Codons 143, 190
WT1	Codons 298-314, 390-397
ZRSR2	All protein coding regions plus splice sites