

# Oncomine Myeloid Research Assay

Simplify and accelerate your journey  
to answers with in-house NGS redefined

Coming soon  
on the new  
Genexus System

Myeloid malignancies are a highly heterogeneous group of disorders with many subtypes and drivers. Sequential, single-gene approaches for analyzing myeloid disorders can be laborious and time-consuming. As the list of relevant genes increases, a more streamlined approach is needed to expedite the evaluation of these diseases. This is especially true for acute forms of myeloid malignancies, which can be very aggressive and progress quickly.

Next-generation sequencing (NGS) with the **Ion Torrent™ Oncomine™ Myeloid Research Assay** is an optimal

solution, enabling comprehensive assessment of all relevant myeloid mutations and fusion transcripts in a single run.

Now, we're taking things to the next level by introducing one-day genomic profiling\* for myeloid malignancies on the new Ion Torrent™ Genexus™ System. Soon, you'll be able to leverage this technology for myeloid profiling to get rapid results for *FLT3-ITD*, *TP53*, *CEBPA*, *NPM1*, *KIT*, *PML-RARA*, and other biomarkers in one day, right in your lab.\*\*

One single assay for comprehensive coverage of  
relevant myeloid mutations



## Simplify workflow

Simultaneously interrogate all relevant DNA mutations and fusion transcripts at once, and enjoy <0.5 hr of total hands-on time with an automated workflow



## Accelerate insights

Go from sample to results in as little as two days with the Ion GeneStudio™ S5 systems, and as little as one day on the Genexus System\*



## Detect challenging targets

Gain critical insights with dedicated *FLT3-ITD* detection software and excellent coverage of challenging targets such as *CEBPA*

\* Specimen-to-report workflow will be available after the Ion Torrent™ Genexus™ Purification System and integrated reporting capabilities are added in 2020.

\*\* The content herein may relate to products that have not been officially released and is subject to change without notice provided.

## Comprehensive content for all major myeloid disorders

### Covers all major myeloid disorders, including:

- Acute myeloid leukemia (AML)
- Myeloproliferative neoplasms (MPN)
- Chronic myeloid leukemia (CML)
- Myelodysplastic syndrome (MDS)
- Chronic myelomonocytic leukemia (CMML)
- Juvenile myelomonocytic leukemia (JMML)

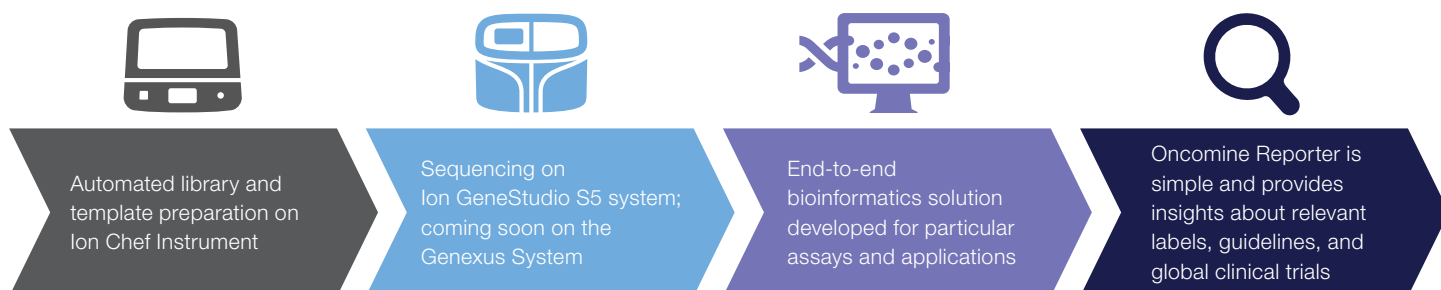
## Oncomine Myeloid Research Assay gene targets

Hotspot genes (23)		Full genes (17)		Fusion driver genes (29)			Expression genes (5)	Expression control genes (5)
ABL1	KRAS	ASXL1	PRPF8	ABL1	HMGA2	NUP214	BAALC	EIF2B1
BRAF	MPL	BCOR	RB1	ALK	JAK2	PDGFRA	MECOM	FBXW2
CBL	MYD88	CALR	RUNX1	BCL2	KMT2A (MLL)	PDGFRB	MYC	PSMB2
CSF3R	NPM1	CEBPA	SH2B3	BRAF	MECOM	RARA	SMC1A	PUM1
DNMT3A	NRAS	ETV6	STAG2	CCND1	MET	RBM15	WT1	TRIM27
FLT3	PTPN11	EZH2	TET2	CREBBP	MLLT10	RUNX1		
GATA2	SETBP1	IKZF1	TP53	EGFR	MLLT3	TCF3		
HRAS	SF3B1	NF1	ZRSR2	ETV6	MYBL1	TFE3		
IDH1	SRSF2	PHF6		FGFR1	MYH11			
IDH2	U2AF1			FGFR2	NTRK3			
JAK2	WT1			FUS				
KIT								

## Sample to insights made easy with blood or bone marrow

The assay is currently available on the Ion PGM™ and Ion GeneStudio™ S5 systems, and comes with manual or automated library preparation configurations for the Ion Chef™ Instrument. Sample preparation to analysis can be completed in as little as two days, with up to

four samples on an Ion 318™ Chip or 12 samples on an Ion 530™ Chip. Variants are annotated by Ion Torrent™ Oncomine™ Reporter, our integrated software that links the variants to relevant diseases, labels, guidelines, and global clinical trials. The assay will be coming soon in 2020 on the new Genexus System.



## Ordering information

Product	Cat. No.
Oncomine Myeloid Research Assay—Manual	A36940
Oncomine Myeloid Research Assay—Chef Ready	A36941
Oncomine Myeloid Research Assay on the Genexus System	Coming soon

**Coming soon**  
on the new  
Genexus System



Learn more about the Oncomine Myeloid Research Assay and our NGS technology at [thermofisher.com/myeloid](https://thermofisher.com/myeloid)

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