

THE ONCOMINE™ MYELOID ASSAY GX

PATHOLOGY IS IN OUR DNA



Innovative technology now allows simultaneous investigation of various myeloid malignancies in one approach. The Oncomine™ Myeloid Assay GX is performed using a highly automated workflow and offers comprehensive testing of myeloid neoplasms in a fast and cost-effective manner.

What is the Oncomine™ Myeloid Assay GX?

The Oncomine™ Myeloid Assay GX is a next generation sequencing (NGS) solution, which enables the detection of all clinically relevant myeloid genetic biomarkers, mutations and fusions, all in one assay.

What are the advantages of the Oncomine™ Myeloid Assay GX?

• Enables comprehensive testing

The Oncomine™ Myeloid Assay GX offers an expanded panel for the detection of myeloid genetic biomarkers and mutations in a total of 53 genes (DNA) as well as 30 fusions (RNA). A larger number of myeloid malignancies can be investigated and excluded simultaneously.

• Improved performance and accuracy

The Oncomine™ Myeloid Assay GX overcomes the limitations of alternative technologies such as fluorescence *in situ* hybridisation (FISH) by detecting a broader range of gene rearrangements with higher sensitivity.

• Improved turnaround time with greater clinical impact

The Genexus' automated workflow allows for much shorter turnaround times without compromising on quality.

• Cost-effective

The Oncomine™ Myeloid Assay GX is both cost and time-effective by offering simultaneous analysis of all clinically actionable genes and fusions in a single assay.



Fast Facts

SAMPLE REQUIREMENTS:

- One EDTA tube containing at least 2ml of bone marrow aspirate or peripheral blood
- A sample must reach the lab within 72 hours of collection for RNA extraction

LIMITATIONS:

- Copy number variation (trisomies/monosomies) or large structural deletions are not detected

HOW TO REQUEST:

- Request using the mnemonic **OMAGEN**
- **OMAHOLD only** for DNA/RNA extraction on hold

WHY OMAGEN?

- Allows comprehensive testing in less time
- Informative
- Highly accurate
- Cost-effective

How does the Oncomine™ Myeloid Assay GX differ from other genetic tests at Ampath?

	Available tests				
	Karyotyping	FISH	RQ-PCR (RNA)	NGS panel testing (DNA) - The Myeloid NGS assay	Comprehensive NGS panel testing (DNA and RNA) - The Oncomine™ Myeloid Assay GX
Test characteristics	Detects large structural chromosomal changes and rearrangements	Detects specifically targeted structural chromosomal changes and rearrangements	Detects and quantifies specifically targeted fusion transcripts	Detects genetic mutations in 42 hotspot genes	Detects genetic mutations in 53 genes as well as > 700 unique gene fusions
Turnaround time	3-4 weeks	4 days	4 days	3 weeks	1-2 weeks

For more information, contact us at ngs@ampath.co.za