

FLT3 ITD MRD Assay & NPM1 MRD Assay

RUO Kits

Background

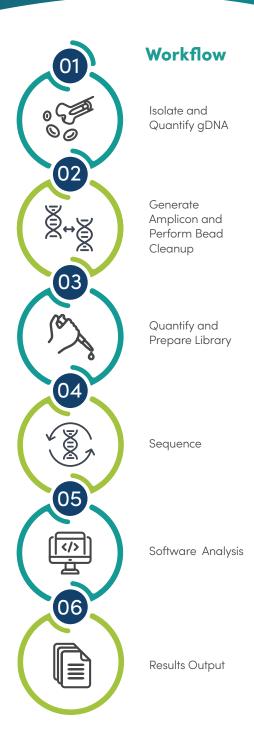
Measurable residual disease (MRD) is a critical biomarker in acute myeloid leukemia (AML) research and discovery. While each genetic profile of AML differs, the combination of genetic aberrations, such as the presence of FLT3-ITD and NPM1 insertions, can provide information over the course of this disease. In a study evaluating the persistence of residual FLT3-ITD and NPM1 mutations among subjects with AML in first remission prior to allogeneic cell transplant, those with an allele fraction $\geq 0.01\%$ trended towards elevated risk of relapse and mortality compared to those without these mutations.^{1,2}

Principle of the Procedure

Invivoscribe's targeted, deep-sequencing assays are easily implemented together, following identical, streamlined workflows. Designed for high-throughput laboratories, each kit configuration includes 24 master mixes, each containing a carefully-selected, unique dual-index to prevent cross-contamination due to barcode hopping. *FLT3* ITD MRD Software and *NPM1* MRD Software analysis is initiated through REST-API or command line interface. The data is output in a tab-separated value (TSV) file.

Key Benefits

- 1. Allelic sensitivity level of 5x10⁻⁵
- 2. Batch samples using previously isolated gDNA
- 3. Baseline sample not required
- 4. Flexibility to multiplex targets and up to 24 unique indexes to gain cost-efficiencies
- 5. Identify and track of distinct FLT3-ITD and NPM1 mutations and/or insertions from a single sample
- 6. Dockerized software enables highly portable, flexible and efficient sample analysis
- 7. Compatible with multiple sequencing platforms





Ordering Information

FLT3 ITD MRD Assay and Software

	Quantity
FLT3 ITD MRD Assay	96 reactions
Components	
FLT3 ITD Positive Control	500 μL tube x 2 each
FLT3 ITD Negative Control	500 μL tube x 2 each
FLT3 ITD Master Mixes	75 μL tube x 24 each
FLT3 ITD MRD Software	1 Dockerized Application
	Components FLT3 ITD Positive Control FLT3 ITD Negative Control FLT3 ITD Master Mixes

Learn more about the FLT3 ITD MRD Assay



Learn more about the FLT3 ITD MRD Software



NPM1 MRD Assay and Software*

Product	Quantity
NPM1 MRD Assay	96 reactions
Components	
NPM1 Positive Control	500 μL tube x 2 each
NPM1 Negative Control	500 μL tube x 2 each
NPM1 Master Mixes	75 μL tube x 24 each
NPM1 MRD Software	1 Dockerized Application
	NPM1 MRD Assay Components NPM1 Positive Control NPM1 Negative Control NPM1 Master Mixes

Learn more about the NPM1 MRD Assay



Learn more about the NPM1 MRD Software



References

- 1. Dillon et al (2023) JAMA. 329(9):745-755. 2. Dillon et al (2024) JAMA Onc. 10(8):1104-1110.

*Contact Invivoscribe for regional availability

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