

Oncomine Myeloid MRD Assays (RUO)



Comprehensive myeloid MRD panel

33 genes (DNA), 42 fusion drivers (RNA),
990 unique fusions



Fast and simple workflow

2-3 days for results and ~2 hours
hands-on time



High sensitivity

Limit of detection down to 0.05% allele
frequency (AF)



Integrated reporting

Complete informatics pipeline
with reporting

Streamlined workflow from sample to results

Day 1		Day 2	Day 3	
Extract sample	Construct library	Prepare template	Run sequence	Analyze data
DNA and RNA from: <ul style="list-style-type: none"> Blood Bone marrow 	<ul style="list-style-type: none"> Ion AmpliSeq HD Library Kit Ion AmpliSeq HD Dual Barcode Kit 	Automated <ul style="list-style-type: none"> Ion Chef Instrument 	Ion GeneStudio S5 Prime or XL system	<ul style="list-style-type: none"> Torrent Suite Software Ion Reporter Software <ul style="list-style-type: none"> FLT3-ITD detection MRD longitudinal tracking Customizable reporting tools* Chimerism analysis

Ion Torrent™ Oncomine™ Myeloid MRD Assays have targets covering the major myeloid disorders. ✓ AML ✓ MDS ✓ MPN

DNA assay			RNA assay				
DNA gene targets			Fusion driver genes			Expression control genes	Exon splicing variants
ABL1	GATA2	PTPN11	ABL1	FUS	MYBL1	RARA	ABL1
ASXL1	IDH1	RUNX1	ABL2	GLIS2	MYH11	RARB	GUSB
BCOR	IDH2	SETBP1	ALK	HMGA2	NOTCH1	RARG	PSMB2
BRAF	JAK2	SF3B1	BCL2	JAK2	NTRK1	RET	PUM1
CALR	KIT	SH2B3	BRAF	KAT6A (MOZ)	NTRK2	RUNX1	TRIM27
CBL	KRAS	SRSF2	CCND1	KAT6B	NTRK3	TAL1	
CEBPA*	MPL	STAG2	CREBBP	KMT2A (includes PTD)*	NUP214	TCF3	
CSF3R	MYD88	TET2	CSF1R	MECOM	NUP98	TCF4	
DNMT3A	NPM1	TP53*	EGFR	MLLT10	PAX5	TFE3	
EZH2	NRAS	U2AF1	ETV6	MRTFA (MLK1)	PDGFRA	ZNF384	
FLT3**	PHF6	WT1	FGFR1		PDGFRB		

* Full gene coverage.

** Exon 14 and 15, includes FLT3-ITDs and TKD mutations.

*Reporting tools include Oncomine Reporter, the laboratory's own software, or other third-party software.

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Optional chimerism analysis

Add on a 22-amplicon DNA micro-haplotyping panel to measure donor/recipient mixtures with sensitivity down to 0.2% AF.

