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

D	ay 1	Day 2	Day 3		
				XXXX	
Extract sample	Construct library	Prepare template	Run sequence	Analyze data	
DNA and RNA from: Blood Bone marrow	Ion AmpliSeq HD Library Kit Ion AmpliSeq HD Dual Barcode Kit	Automated Ion Chef Instrument	Ion GeneStudio S5 Prime or XL system	Torrent Suite Software Ion Reporter Software FLT3-ITD detection MRD longitudinal tracking Customizable reporting tools* Chimerism analysis	

Ion Torrent™ Oncomine™ Myeloid MRD Assays have targets covering the

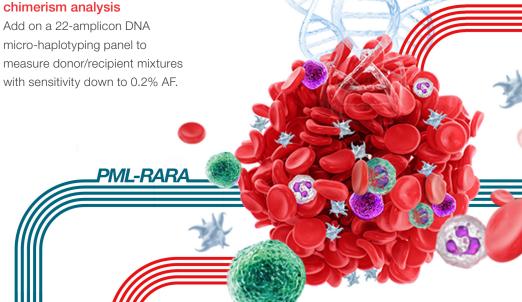
DNA assay		RNA assay						
DNA gene targets		Fusion driver genes				Expression control genes	Exon splicing variants	
ABL1	GATA2	PTPN11	ABL1	FUS	MYBL1	RARA	ABL1	KMT2A
ASXL1	IDH1	RUNX1	ABL2	GLIS2	MYH11	RARB	GUSB	RUNX1
BCOR	IDH2	SETBP1	ALK	HMGA2	NOTCH1	RARG	PSMB2	NOTCH1
BRAF	JAK2	SF3B1	BCL2	JAK2	NTRK1	RET	PUM1	ETV6
CALR	KIT	SH2B3	BRAF	KAT6A (MOZ)	NTRK2	RUNX1	TRIM27	IKZF1
CBL	KRAS	SRSF2	CCND1	KAT6B	NTRK3	TAL1		NTRK1
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.

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Optional

micro-haplotyping panel to measure donor/recipient mixtures with sensitivity down to 0.2% AF.



^{**} 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.