



SureSeq

Myeloid MRD Plus NGS Panel

The ultra-sensitive SureSeq Myeloid MRD Plus NGS Panel leverages OGT's expertise in hybrid capture to provide a user-friendly NGS workflow for the detection of ultra-low frequency measurable residual disease (MRD)-associated biomarkers in acute myeloid leukaemia (AML)

Why choose SureSeq?



Interrogate 16 key AML-associated genes including longer, ultra-low frequency *FLT3*-ITDs over 300bp long, for the clearest picture of MRD status



Confidently detect ultra-low frequency variants as low as 0.01% VAF, including for key targets like *NPM1*



User-friendly workflow backed by expert support to maximise the efficiency of your MRD solution



Easily dive into data analysis with our complimentary NGS analysis software, providing an out of the box bioinformatic pipeline

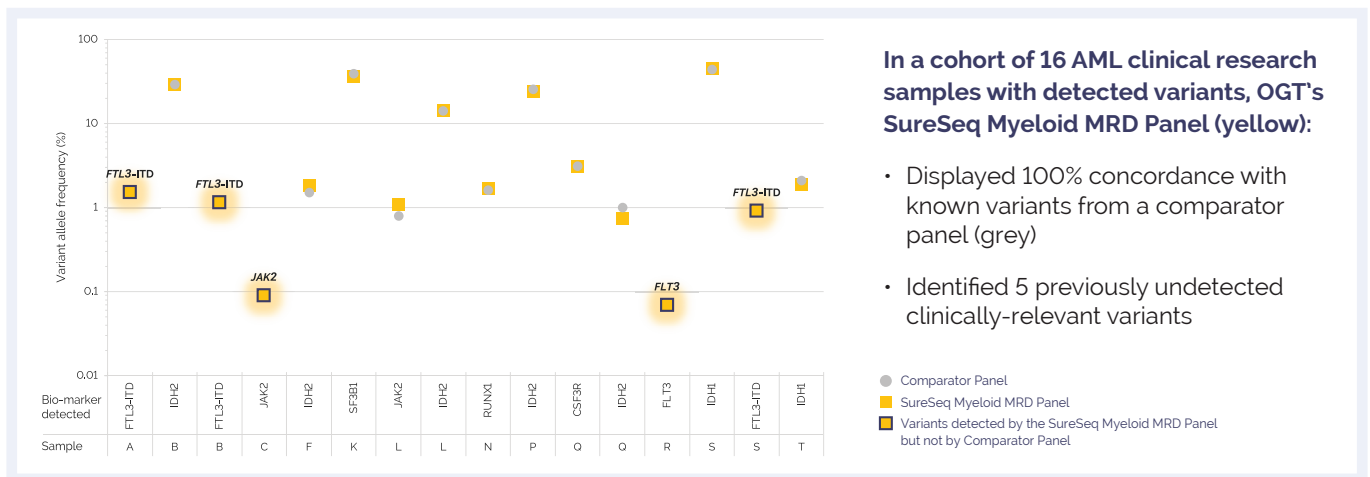
Myeloid MRD Plus NGS Panel

Understanding the full AML MRD profile of your sample is becoming ever more important and with multigene next-generation sequencing (NGS) you can capture the broader genomic heterogeneity present in AML samples and encompass a range of AML subtypes in one streamlined assay. These insights strengthen your ability to analyse and understand disease features such as earlier identification of relapse and therapeutic response.

The SureSeq™ Myeloid MRD Plus NGS Panel gene content has been driven by recommendations from leading cancer experts to incorporate a key range of AML-associated biomarkers, allowing for the rapid generation of extensive genomic profiles.

Key Features

Discover more variants with ultra-low detection as low as 0.01% VAF



Interrogate challenging biomarkers, including large *FLT3*-ITDs

By leveraging our expertise in hybrid capture technology and sequence identification analysis, the SureSeq Myeloid MRD Plus NGS Panel can detect large *FLT3*-ITDs, in excess of 300bp, so you don't miss actionable insights.

Variant	Expected frequency: 0.05%		Negative control	
	Read depth	Observed VAF (%)	Read depth	Observed VAF (%)
<i>FLT3</i> ITD-300	22,146	0.05	21,686	0

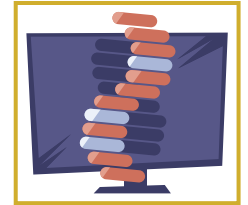
Gene	HGVSc	Length (base)	Read depth	Observed VAF (%)
<i>FLT3</i>	<i>FLT3</i> :n.1873_1998dup	216	22,146	0.08
	<i>FLT3</i> :n.1946_1947ins (183bp)	183	26,238	0.04
	<i>FLT3</i> :n.1664-77_1664-15dup	63	20,543	0.05

Data generated using the SureSeq Myeloid MRD NGS Panel in combination with the OGT's Universal NGS Workflow Solution V2 and OGT's Interpret NGS Analysis Software highlights the detection of a 300 bp *FLT3*-ITD as well as 3 examples of *FLT3*-ITD detection in orthogonally validated research samples.

Gene Targets

CALR Exon 9	CEBPA Exon 1	CSF3R Exons 13-17	FLT3 Exons 13-15, 20
IDH1 Exon 4	IDH2 Exons 4-5	JAK2 Exons 12, 14	KIT Exons 2, 8-11, 13, 17
KRAS Exons 2-3	MPL Exon 10	NPM1 Exon 11	NRAS Exons 2-3
RUNX1 Exons 4-8	SF3B1 Exons 13-16	TP53 Exons 2-11	WT1 Exons 7, 9

On-site or Cloud-based* Interpret NGS analysis software



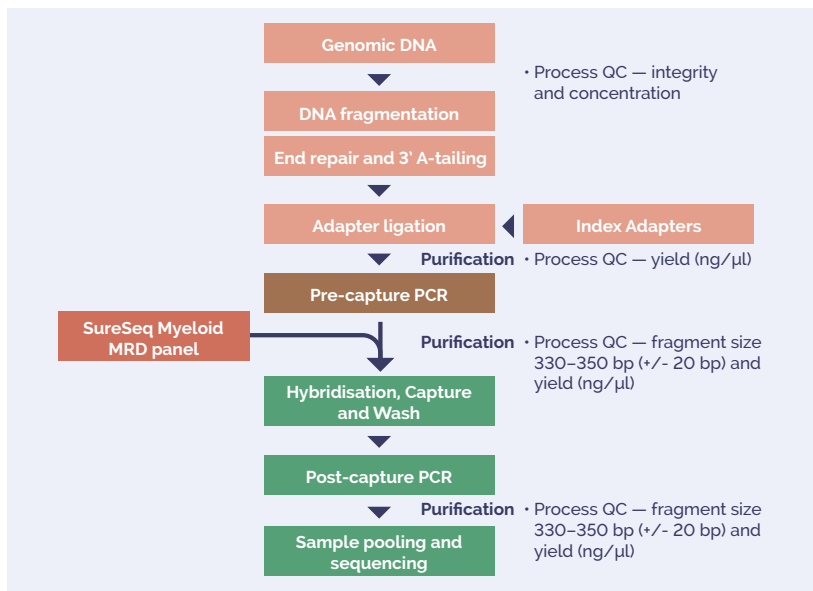
Easy data interpretation and visualisation so you have complete confidence in results.

Included as standard with all SureSeq panels, **Interpret NGS Analysis Software** is OGT's powerful and easy-to-use data analysis solution, offering you extensive customisation options to deliver comprehensive identification of a wide range of aberrations.

With **Cloud-based Interpret**, OGT's expert support team handles installation, updates and troubleshooting so your workflows avoid technical delays and maintain optimal efficiency.

And you don't need to worry about performance limitations or hardware upgrades - with scalable cloud resources that can be adapted to your workload, we've got you covered.

User-friendly workflow for increased efficiency



Total Hands-on time: 3hr 40 mins



Streamlined, all-liquid NGS preparation kit



UMI-enabled detection of low frequency variants



Pre-capture pooling to improve sample throughput and reduce hands-on time

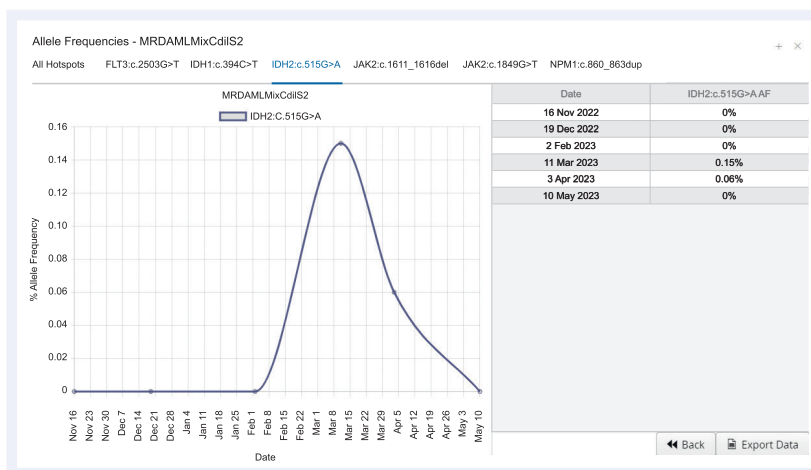


Automation compatible



Customisable bioinformatics analysis software updated for MRD applications

Easily visualise changes in longitudinal MRD sample studies



- Monitor changing MRD dynamics over time from same subject
- Reporting tool enables visualisation of changing MRD dynamics over time - including SNVs, indels and ITDs
- Customised reports including QC metrics of the sample and the variants identified
- Simultaneously track multiple mutations over time, including new variants that emerge post-treatment

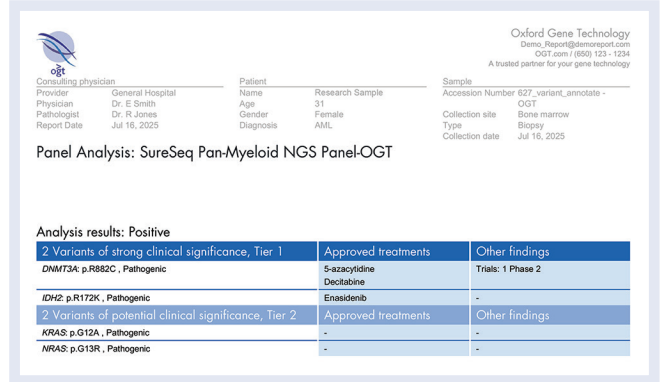
Unlock a complete sample to report NGS workflow

With SureSeq and QIAGEN Clinical Insight (QCI®) Interpret

OGT's partnership with **QIAGEN Digital Insights** allows our customers to package their SureSeq™ NGS panels and workflows with **QIAGEN QCI Interpret** tertiary analysis software. Now you can create an end-to-end NGS workflow with access to the world's largest knowledge base increasing confidence in variant classification.

With this tertiary analysis solution, you can:

- Confidently interpret NGS variants with access to over 500,000+ variant molecular function summaries for informed decision making
- Accelerate test turnaround time with dynamically computed disease-specific variant classifications with immediate access to interpretive comments and automatable workflows to help you scale for higher test volumes
- Generate sample-specific reports in minutes with rapidly generated easy-to-understand, customisable reports for oncologists with information such as variant therapeutic, prognostic and diagnostic relevance



SureSeq Myeloid MRD Plus NGS Panel: Technical information

Feature	Specification	Samples per run	
Number of targets	53 hotspot exons from 16 genes	NextSeq 500 High Output	16
Panel size	12.4 kb	NextSeq 2000 P3	48
Mean target coverage	Up to 20,000x	NextSeq 2000 P4	72
Known variant detection limit	Down to 0.01%	NovaSeq® SP	32
DNA input recommended	400 ng	NovaSeq S1	64

Ordering information

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Product	Contents	Cat. No.
SureSeq Myeloid MRD Plus Complete NGS Workflow Solution V2 (48)	Enrichment baits sufficient for 12 x 4-samples pools (48 samples total, run in duplicate). Bundle of 1 x Universal Library Preparation Kit (96) containing PCR primers and enzymes. 1 x Universal Hybridisation & Wash Kit V2 (96). 1 x Pre-PCR Universal Bead Kit (96). 1 x Post-PCR Universal Bead Kit (96). 1 x Universal Index Adapter Kit (96). Interpret NGS Analysis Software	780145-48
SureSeq Myeloid MRD Plus NGS Panel (48)	Enrichment baits sufficient for 12 x 4-samples pools (48 samples total, run in duplicate). Interpret NGS Analysis Software	770045-48
Universal NGS Workflow Solution V2 (96)	Bundle of 1 x Universal Library Preparation Kit (96) containing PCR primers and enzymes, 1 x Universal Hybridisation & Wash Kit V2 (96). 1 x Pre-PCR Universal Bead Kit (96). 1 x Post-PCR Universal Bead Kit (96). 1 x Universal Index Adapter Kit (96)	770510-96

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