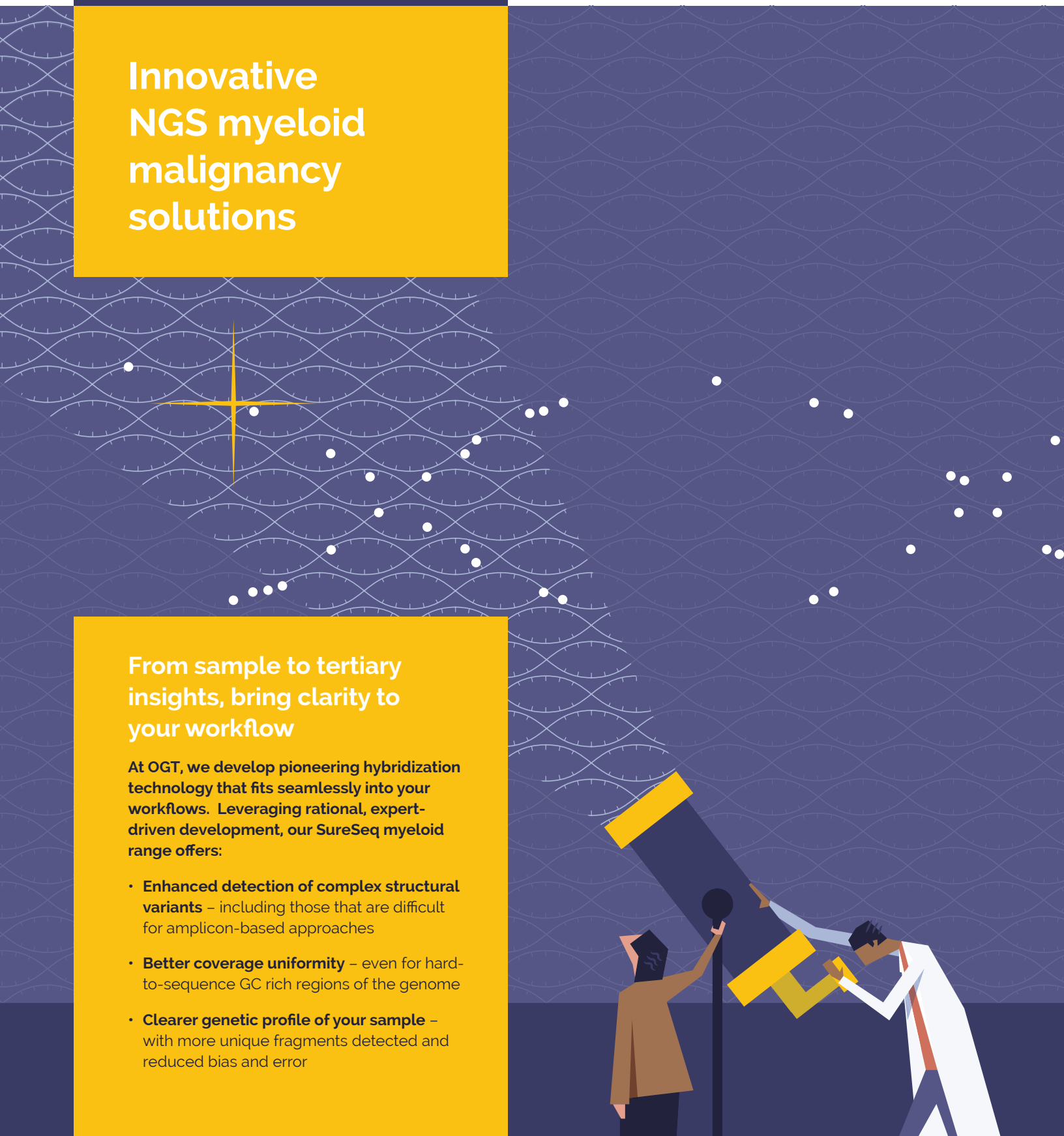
SureSeq

A Sysmex Group Company

Innovative NGS myeloid malignancy solutions



From sample to tertiary insights, bring clarity to your workflow

At OGT, we develop pioneering hybridization technology that fits seamlessly into your workflows. Leveraging rational, expert-driven development, our SureSeq myeloid range offers:

- **Enhanced detection of complex structural variants** – including those that are difficult for amplicon-based approaches
- **Better coverage uniformity** – even for hard-to-sequence GC rich regions of the genome
- **Clearer genetic profile of your sample** – with more unique fragments detected and reduced bias and error

SureSeq

Innovative NGS myeloid malignancy solutions

Simplify the way you work with NGS

Traditional research approaches for myeloid malignancies can consign your laboratory to complex and time-consuming multi-stage workflows.

Our SureSeq™ myeloid malignancy research solutions are underpinned by a universal workflow compatible across all disease areas and product applications, unlocking the simplicity and efficiency you need. With our NGS myeloid solutions you also reap the benefits of reliably detecting *FLT3*-ITDs so you can free yourself from additional testing.

Experience our fast, cost-effective myeloid NGS solutions and bring clarity to your workflow

1. Sample preparation

2. Genetic sequence

3. Variant detection
with Interpret software

4. Tertiary analysis
with Intelliseq

Empowering you with the latest developments

Be assured you're capturing the most important targets with SureSeq panels designed in collaboration with leading cancer experts

Delivering exceptional uniformity

Confidently detect low-frequency SNVs and indels with our best-in-class design process, informed by our unique expertise, for exceptionally uniform coverage

Robust detection of challenging biomarkers

Analyze difficult biomarkers, including *CEBPA*, *NPM1*, *FLT3*-ITDs (even up to 300 bp)[1] and *KMT2A*, with our hybridization-based approach and remove the need for supplementary approaches

Seamless customization at the touch of a button

Access a library of over 1000 pre-optimized targets or request novel targets, so you only sequence the biomarkers that matter most to you

SureSeq

Innovative NGS myeloid malignancy solutions

OGT has you covered no matter your research or myeloid malignancy focus. With our broad range of NGS products we cover the full myeloid disease spectrum, so we have the solution for you, every time.

With SureSeq, you can alleviate the burden of running multiple assays in a single panel. Our expertly designed NGS solutions provide outstanding coverage uniformity so you can robustly detect:

- Low frequency SNVs and indels
- *FLT3*-ITDS, even for those as long as 300 bp
- *KMT2A*-PTDs of all sizes

Visit ogt.com/myeloid-ngs or use the QR code to find out more.

SureSeq Core MPN Panel

Robustly detect key variants associated with MPN, with the flexibility to include *BCR-ABL* fusion gene detection.

Product Code
780001-24, 780001-96

Reactions
24, 96

Panel Size
1 Kb

Number of Targets
3 key clinically relevant genes (±*BCR-ABL* fusion)

SureSeq Myeloid Plus Workflow

Accurately detect clinically relevant SNVs, indels and structural variants, even in challenging biomarkers, for a wide variety of myeloid malignancies.

Product Code
780002-24, 780002-96

Reactions
24, 96

Panel Size
132 Kb

Number of Targets
49 genes
(+4 sex chromosome genes)

SureSeq Pan-Myeloid Panel

Obtain a comprehensive picture of the genetic make-up of every myeloid sample you run.

Product Code
780003-24, 780003-96

Reactions
24, 96

Panel Size
221 Kb

Number of Targets
70 genes
(+4 sex chromosome genes)

SureSeq Myeloid Fusion Panel

Simultaneously detect all fusions of baited genes and enhance sample classification with novel/rare fusions.

Product Code
890001-24, 890001-96

Reactions
24, 96

Panel Size
61 Kb

Number of Targets
30+ fusions (+ partner gene-agnostic fusion detection for detection of novel fusion partners)

SureSeq Myeloid MRD Panel

Coming soon

Comprehensively interrogate a wide range of targets with highly sensitive detection down to 0.05% VAF.

Product Code:
780126-48, 770026-48

Reactions:
12, 12

Panel Size
11.2 Kb

Number of Targets
13 genes

SureSeq myPanel Custom AML Panel

Create your ideal panel with our sophisticated bait design strategies and sequence only what's relevant for your AML research.

Product Code
Upon request

Reactions
Upon request

Panel Size
Upon request

Number of Targets
Contact our team to begin designing your panel

SureSeq

Innovative NGS myeloid malignancy solutions

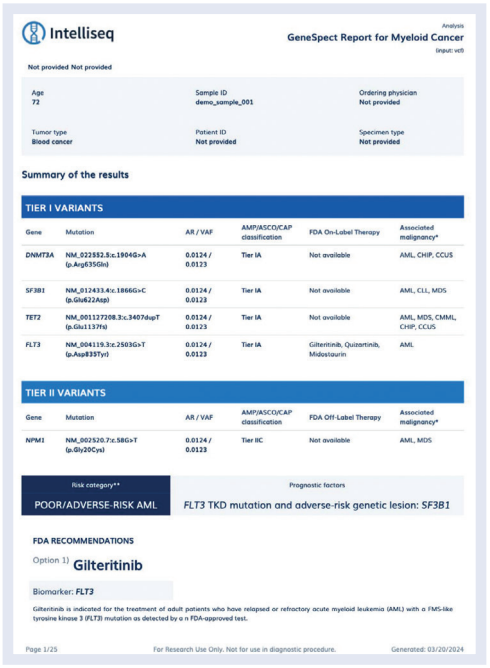
Unlock the full potential of NGS tertiary analysis

Unparalleled genomic interpretation and report generation

With OGT unlock comprehensive end-to-end myeloid analyses, from sample to report. Our partnership with Intelliseq, a leading genome informatics company, brings you the innovation and expertise your research demands.

With our tertiary analysis solution, you can:

- Access ready-to-use report templates for myeloid malignancy panels
- Generate easily digestible insights with automated report generation
- Be assured of trustworthy results from up-to-date databases
- Customize your NGS analysis or report to suit your specific cancer research needs


Intelliseq

GeneSpect Report for Myeloid Cancer

Summary of the results

TIER I VARIANTS

Gene	Mutation	AR / VAF	AMP/ASCO/CAP classification	FDA On-Label Therapy	Associated malignancy*
DNMT3A	NM_022552.5:c.1904G>A (p.Arg635Gln)	0.0124 / 0.0123	Tier IA	Not available	AML, CHIP, CCUS
SF3B1	NM_012433.4:c.1866G>C (p.Glu622Asp)	0.0124 / 0.0123	Tier IA	Not available	AML, CLL, MDS
TET2	NM_001127208.3:c.3407dupT (p.Glu1137fs)	0.0124 / 0.0123	Tier IA	Not available	AML, MDS, CMML, CHIP, CCUS
FLT3	NM_004119.3:c.2503G>T (p.Asp835Tyr)	0.0124 / 0.0123	Tier IA	Gilteritinib, Quizartinib, Midostaurin	AML

TIER II VARIANTS

Gene	Mutation	AR / VAF	AMP/ASCO/CAP classification	FDA Off-Label Therapy	Associated malignancy*
NPM1	NM_002520.7:c.58G>T (p.Gly20Cys)	0.0124 / 0.0123	Tier IIC	Not available	AML, MDS

Risk category**: POOR/ADVERSE-RISK AML

Prognostic factors: *FLT3* TKD mutation and adverse-risk genetic lesion: *SF3B1*

FDA RECOMMENDATIONS

Option 1) Gilteritinib

Biomarker: *FLT3*

Gilteritinib is indicated for the treatment of adult patients who have relapsed or refractory acute myeloid leukemia (AML) with a FMS-like tyrosine kinase 3 (*FLT3*) mutation as detected by a n FDA-approved test.

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Start your NGS journey with OGT today

Contact one of our Myeloid NGS experts to discuss your project requirements. Visit ogt.com/myeloid-ngs or use the QR code to find out more.

Ordering information

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US +1 914 467 5285

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References

1. Milner N *et al. Development of a target-capture NGS assay for use in molecular-based research of myeloid measurable residual disease (MRD).* Oxford Gene Technology. 2023. Available at: https://www.ogt.com/resources/ngs-resources-support/ngs-scientific-literature/

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What binds us, makes us.

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