

Procedure

Minimal Cell Requirement

HMW DNA

Long-Range PCR

Sequencing-Ready DNA

Sequencing-Ready RNA

Competitive Performance

Ordering Information

AllPrep® DNA/mRNA Nano Kit

Simultaneous DNA and mRNA purification from low-biomass samples



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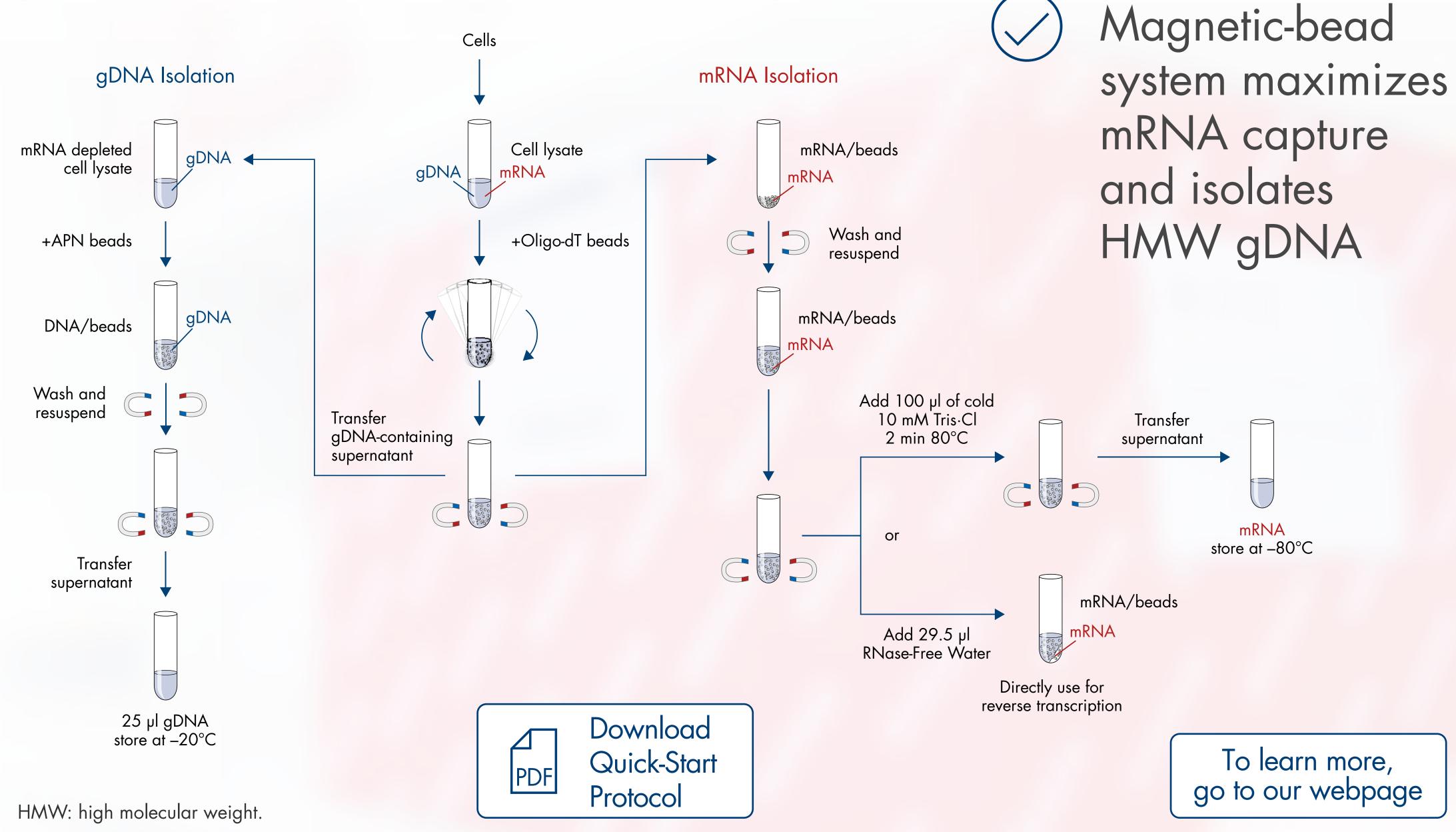
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Genomic and transcriptomic profiling from the same sample





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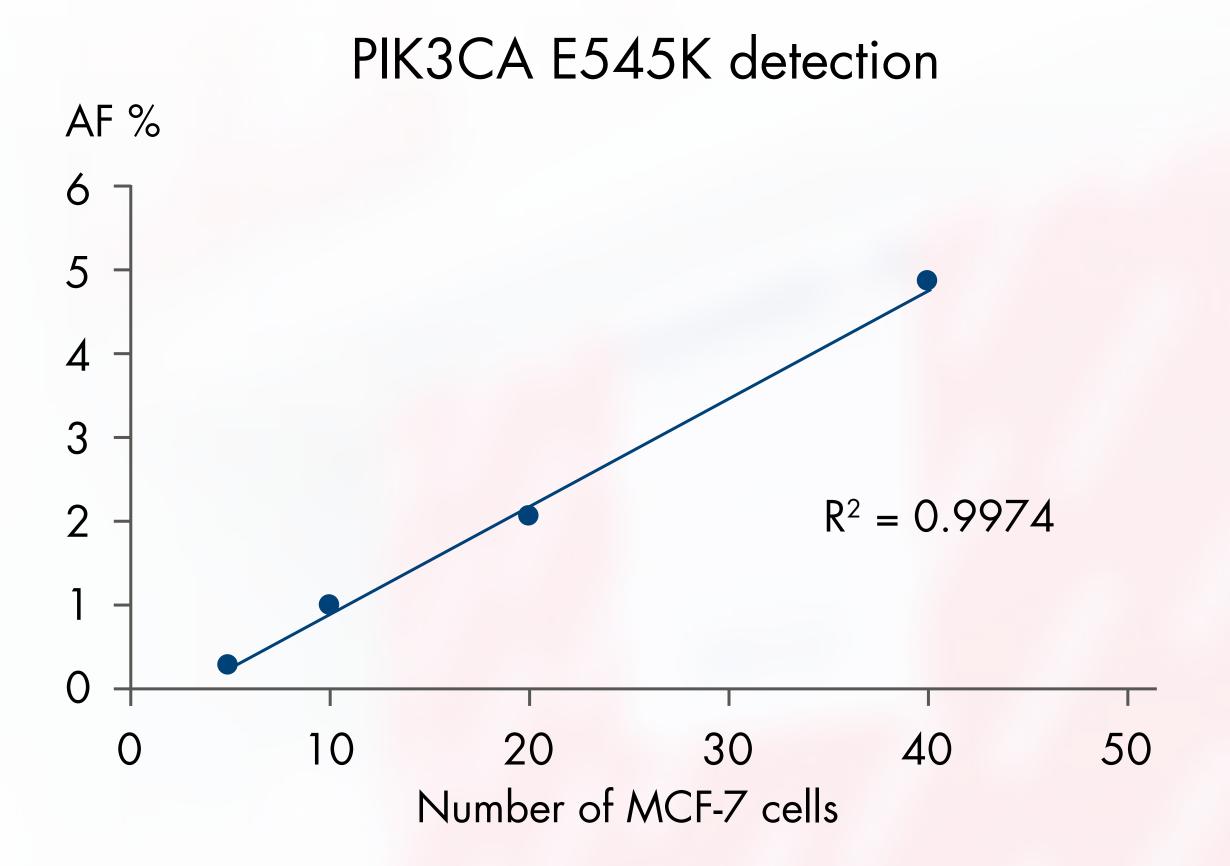
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Requires minimal amounts of cells



AF: allele frequency.



Pyrosequencing® for PIK3CA hotspot mutation E545K was done on gDNA isolated using the AllPrep DNA/mRNA Nano Kit.



Mutation detection is feasible down to five MCF-7 cells spiked in 5 ml of blood.





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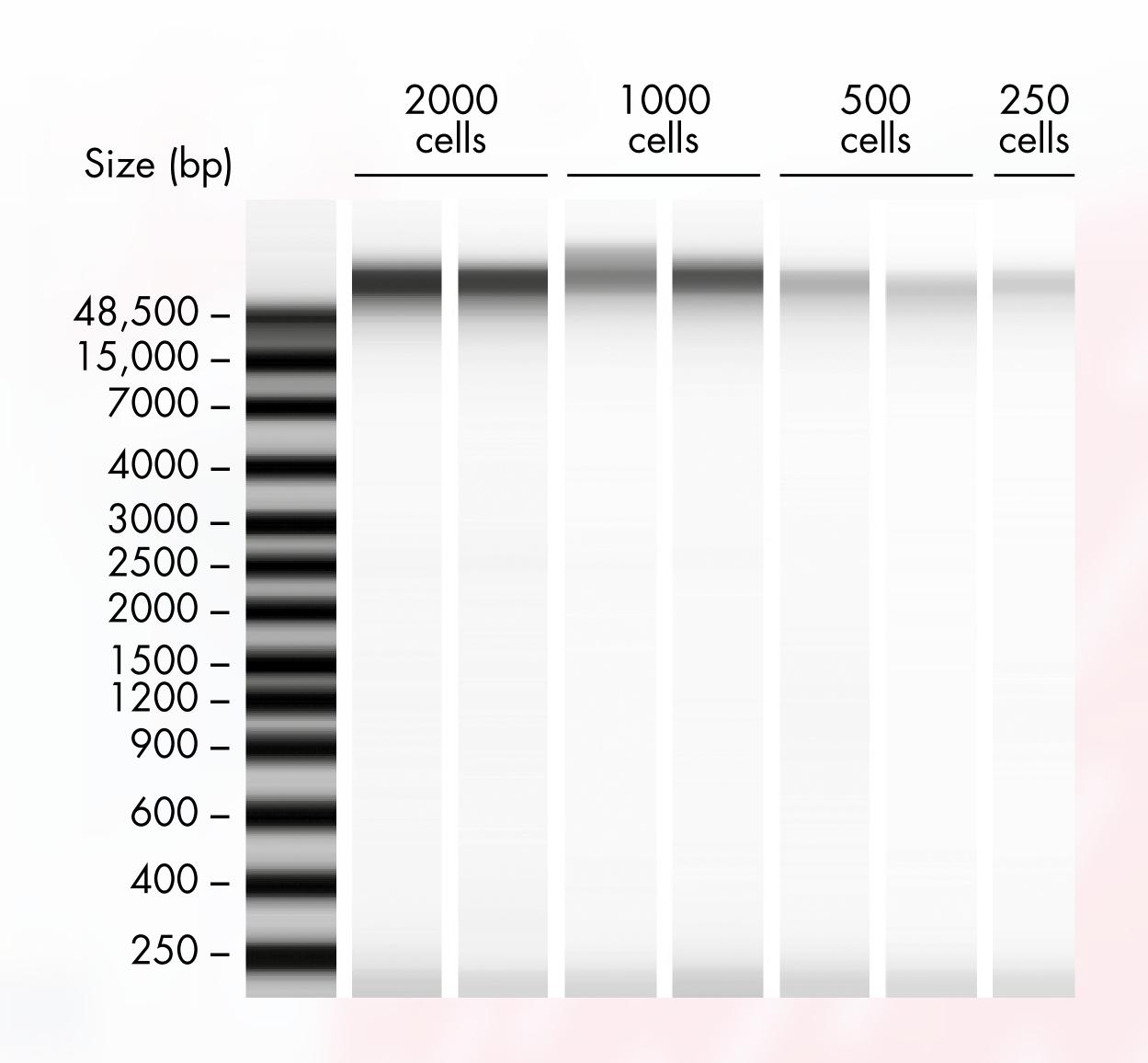
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Extracts high-molecular-weight gDNA





Genomic DNA was isolated from various numbers of MCF-7 cells and analyzed with an automated electrophoresis instrument.



Genomic DNA isolated with the AllPrep DNA/mRNA Nano Kit has high molecular weights of 60,000 bp or more.



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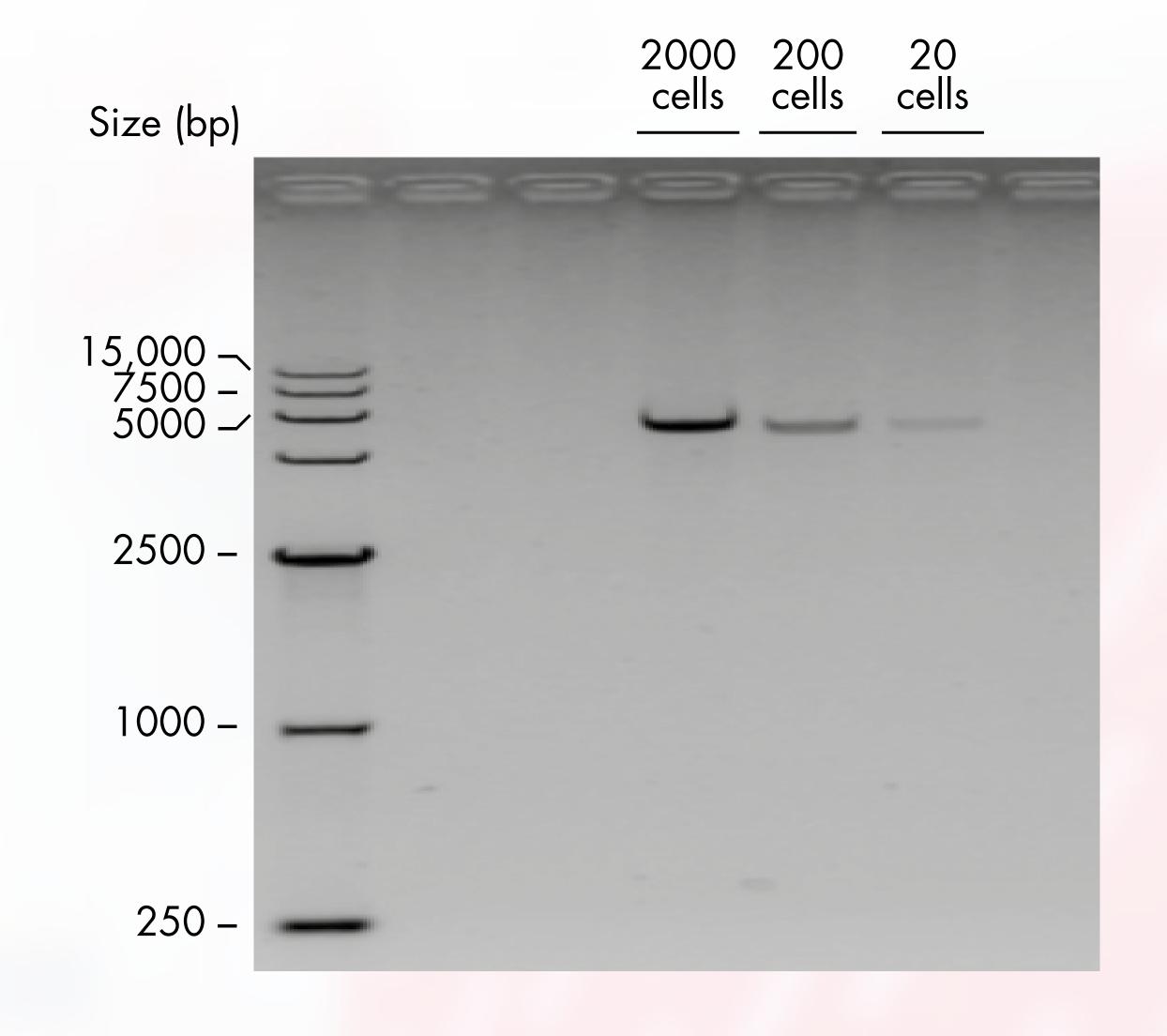
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Highly suitable for long-range PCR



Genomic DNA was purified from ≤2000 cells and amplified using the UltraRun LongRange PCR Kit.

A 4 kb amplicon from P53 was amplified from as few as 20 cells.



The resulting PCR fragments are highly suitable for a variety of applications, such as cloning, genome mapping and sequencing.



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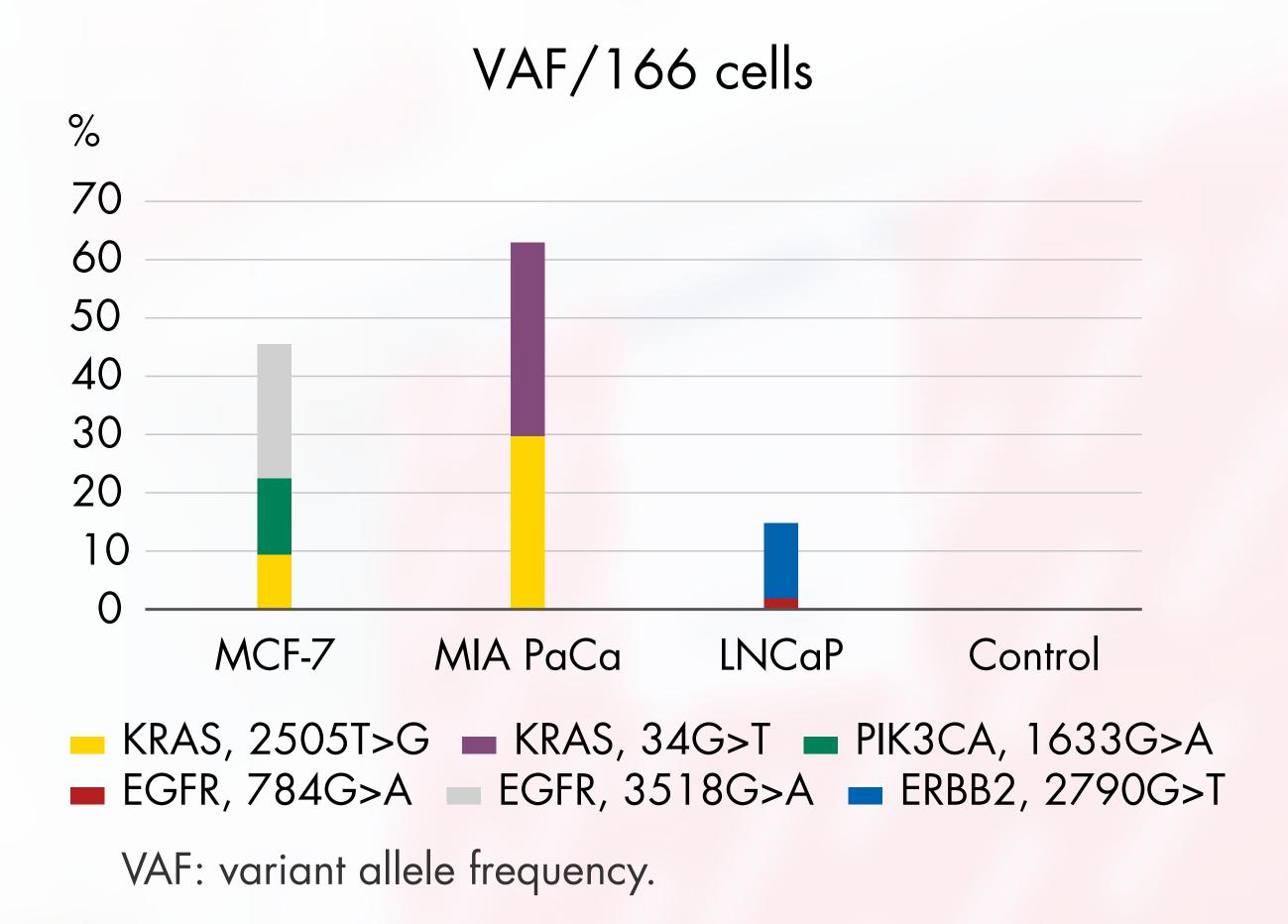
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Allows the detection of cell-line variants from low-biomass samples



mRNA and gDNA were isolated from different cell lines that were mixed and spiked into healthy background.

Isolated DNA was used for library preparation, and NGS was performed.

All variants described for the selected cell lines were detected with the expected allele frequency.

None of them were found in the healthy donor control.



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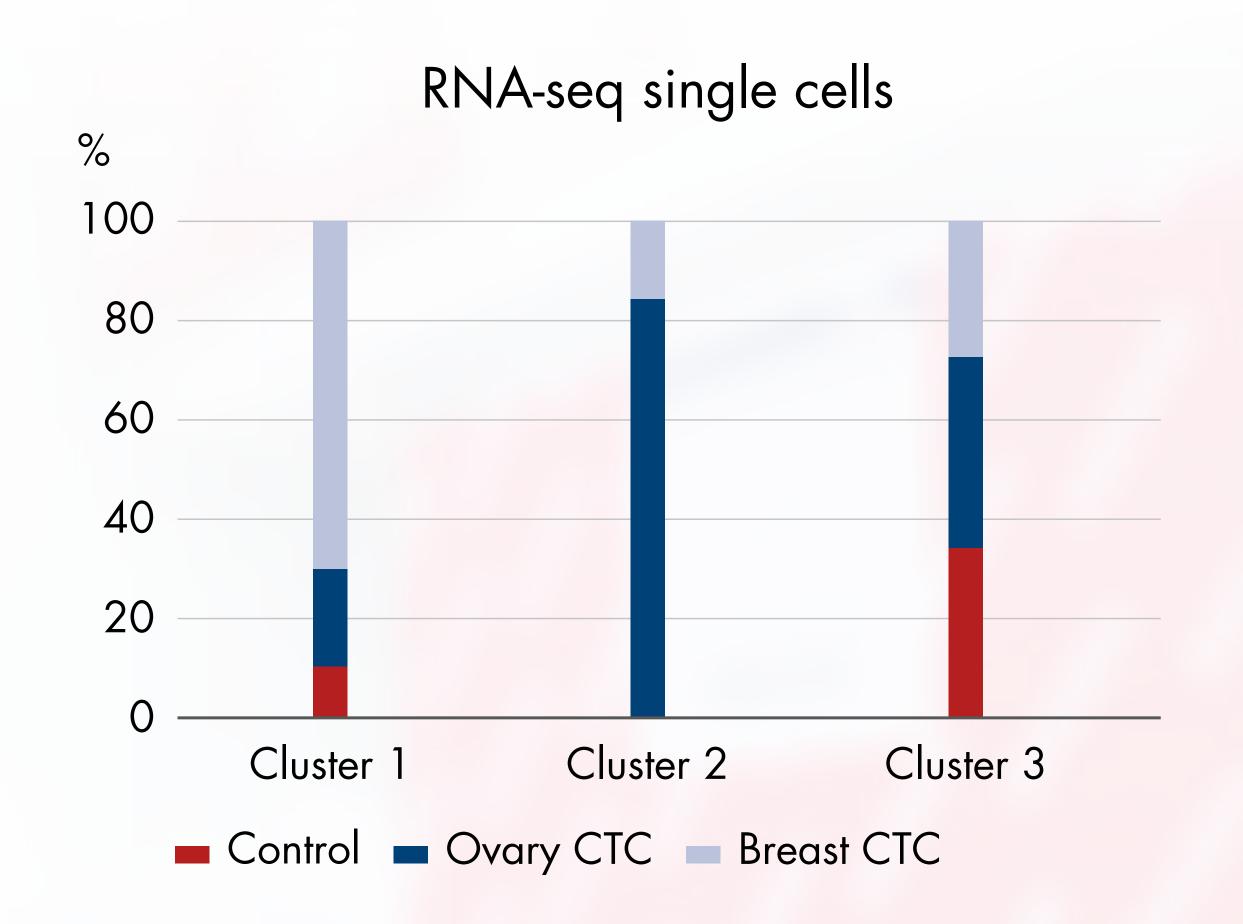
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Isolates mRNA suitable for single-cell RNA sequencing



mRNA from single cells was purified using the AllPrep mRNA/DNA Nano procedure.

RNA sequencing was done with the QlAseq® UPX 3'
Transcriptome Kit.



The UPX gene-expression profiles differentiate single cells from Breast CTC, Ovary CTC, and healthy donor controls.



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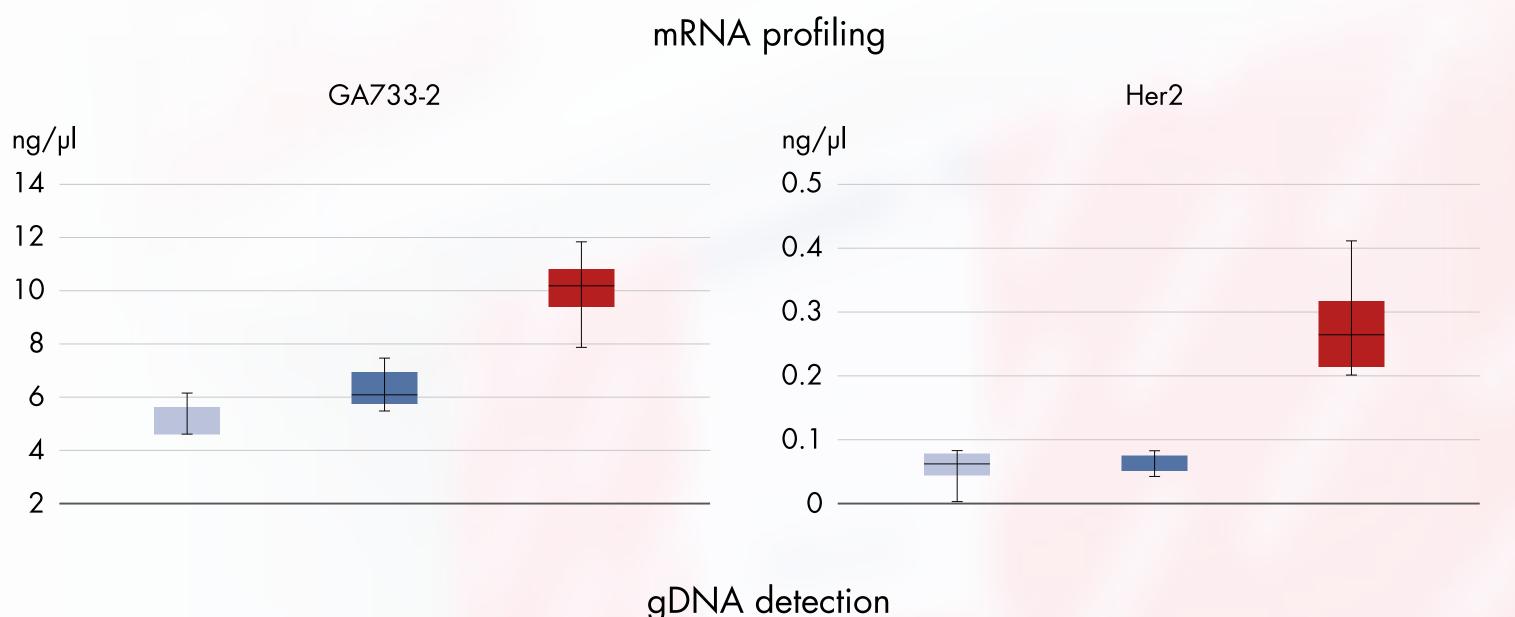
Sequencing-Ready DNA

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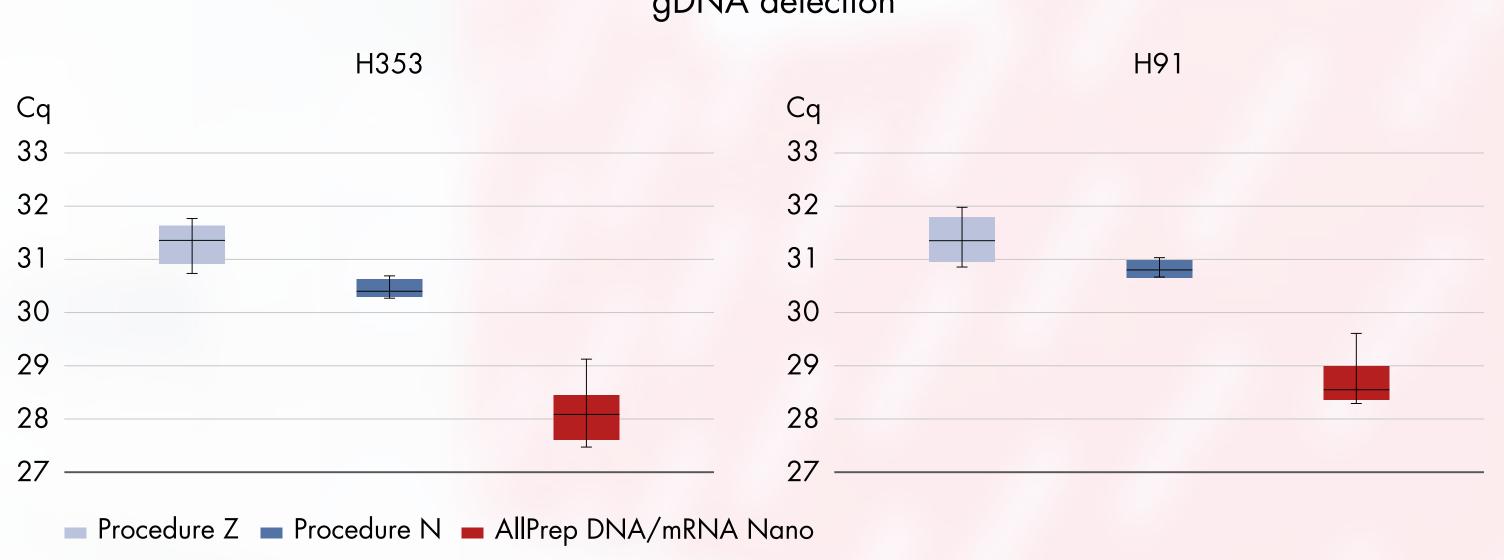
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gDNA and mRNA yield significantly exceeded all other competitor procedures



mRNA was analyzed using the AdnaTest BreastCancerDetect Kit and yields were determined by densitometry.



Matched gDNA yield was determined by qPCR.



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Product	Contents	Cat. no.
AllPrep DNA/mRNA Nano Kit (12)	For 12 preps: Oligo-dT magnetic beads, DNA-isolation beads, collection tubes, RNase-free water and buffers	80272
AdnaMag-S	Magnetic rack for 8 tubes, 1.5 ml	399911

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