Micro-Onco Somatic Cancer Panels



REPRODUCTIVE GENETICS COMPAN



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With hereditary cancer panels both point mutations and small deletions/insertions, as well as copy number changes (CNV) in target genes are detected. Due to the UMI technology used in these tests, somatic variants in the low allele fraction can be screened effectively.

What is UMI Technology?

They are barcodes used to identify unique DNA-RNA molecules. These barcodes are linked before performing any amplification process (PCR) for rich amplification and unique analysis of target regions. Owing to UMI technology, PCR-derived false positives can be distinguished from true variants.

Cancer Type Specific Somatic Variant Analysis :

Micro-Onco panels are analyzed with the QIAGEN Clinical Insight (QCI) variant analysis program and variants that guide treatment are reported according to international criteria.

All variants detected in the analysis are classified according to the following criteria. Tumor-specific actionable (Tier 1 and 2) and clinically relevant variants are reported.



Somatic variants, specific to the primary tumor site or histology, can be classified according to the answers given to personalized medical practice. Actionable variants in personalized cancer medicine are genetic variants found in some tumors and are targets of new treatments. The variants detected are classified according to

current treatment options, prognosis and/or diagnosis by considering the recommendations of the Molecular

Pathology Guidelines (AMP/ASCO/CAP).