SarcomaFusion

For the detection of fusion transcripts

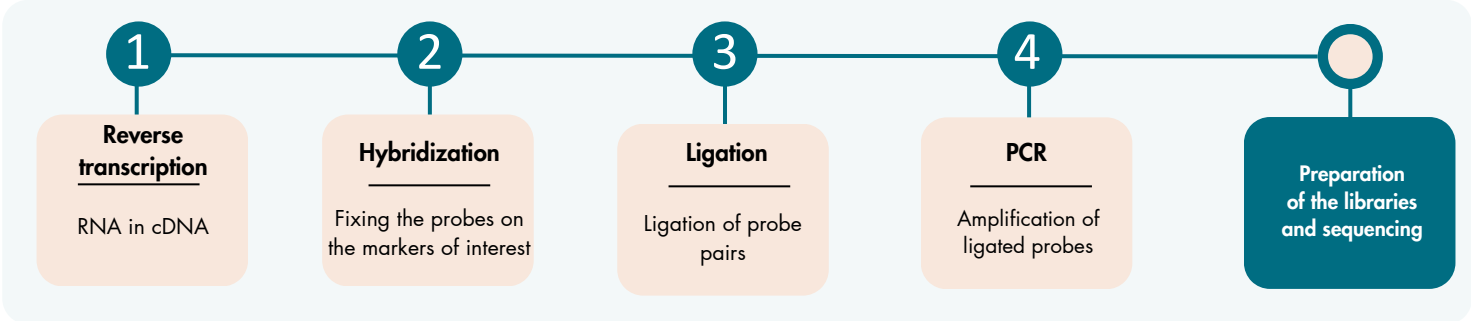
Genexpath's SarcomaFusion solution allows the identification of **140 fusion transcripts** associated with sarcomas.

The detection and quantification of these fusion transcripts are made possible by combining molecular biology and **high-throughput sequencing**. The data obtained is analyzed using our **RT-MIS** platform.

RT-MLPSeq - a simple and fast technique

The **SarcomaFusion** test uses the **RT-MLPSeq** method.

The multi-step *in vitro* test simultaneously evaluates a large number of **genetic markers** (chromosomal translocations) using pairs of specific oligo-nucleotide probes for each of them.

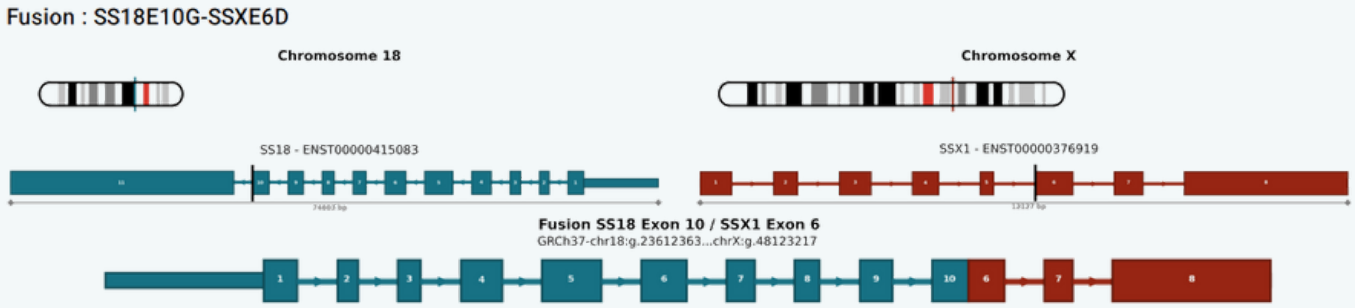


This *in vitro* test is associated to high-throughput sequencing that allows multiple samples and dozens of genes to be tested at the same time.

Post sequencing analysis using dedicated software

After sequencing, the **FASTQ** file is loaded onto the **RT-MIS** platform which carries out demultiplexing, identification and quantification of any fusion transcripts.

RT-MIS delivers in a few minutes a **complete analysis** of the sequencing results, from the raw data (number of reads and Unique Molecular Identifiers (UMI)) to the **bibliography associated** to the transcript.



Characteristics

- ½ day of manipulation
- Low RNA quantity needed
- Suitable for FFPE samples
- Needle biopsie possible
- Sensitive thanks to short probes
- Increased specificity thanks to UMI
- 100,000 reads are sufficient
- Sequencing with other libraries possible
- Bioinformatic analysis included
- Access to complete raw data

Application domain	Fusion transcript detection		
Handling duration	5h30	Actual working time	1h-1h30
Type of samples	Fresh, frozen or fixed and paraffin-embedded tissue biopsies		
Input quantity	Between 50 and 500ng of RNA in a volume of 2,5µL		
Contents of the reagent kit	Probes targeting 140 fusion transcripts, barcodes, sequence primers		
Material compatibility	Sequencer Illumina®		

CE IVD

In vitro diagnostic medical device according to Directive (EU) 98/79/EC
Please read the user manual before use.
For research only outside the European Union.

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