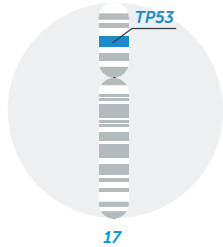


The TP53 MASTR is a research panel for the identification of variants in the coding region of *TP53*, a gene frequently mutated in a range of cancers.



Research application

- For detection of mutations (SNVs and small indels) in *TP53* in FFPE-derived DNA
- For detection of mutations (SNVs and small indels) in *TP53* in blood-derived DNA
- For detection of mutations (SNVs and small indels) in *TP53* in FFT-derived DNA

Panel characteristics

Gene	full coding region of <i>TP53</i> (excl. promoter 5' or 3' UTR)
Genomic region analyzed	2.4 kb
Number of amplicons	17
Amplicon length	176 - 260 bp
Number of plexes	2
Design compatible with	MiSeq, NextSeq, MiniSeq and Ion PGM Systems
Number of samples/run	@ 5 % VAFsample: Illumina MiSeq V2: 211* Illumina MiSeq V3: 388*

* only 192 MID combinations available. Due to the low complexity of the library, it is advised to combine with other assays on a sequencing run

** Number of samples per run for Illumina & IonTorrent NGS Systems can be calculated via the [sequencing calculator](#).

Performance Parameters

Uniformity of amplification ($\geq 0.2 \times$ mean coverage)	≥ 99 % amplicons on high-molecular weight DNA ≥ 96 % amplicons detected on DNA from FFPE tissue
On target read count	>93 % for FFPE-derived DNA
Low DNA amount	4 ng per plex reaction
Lowest observed mutation frequency	3 %

Workflow



Order information

Cat. No.	Product Name	Samples
MR-0160.024	TP53 MASTR	24

MID (Molecular Identifiers) kits are necessary to complete the workflow.

For Research Use Only. Not for use in diagnostic procedures.

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