

Instructions for Use SALSA® MLPA® Probemix P056 TP53

L See also the MLPA General Protocol, the product descriptions of the SALSA® MLPA® Reagent Kit and SALSA® Binning DNA SD067, and the Coffalyser.Net Reference Manual.

Visit the SALSA® MLPA® Probemix P056 TP53 product page on our website to find Certificates of Analysis and a list of related products.

| Product Name | SALSA® MLPA® Probemix |
|----------------------|--|
| | P056 TP53 |
| Version | D1 |
| Catalogue numbers | P056-025R (25 reactions) |
| | P056-050R (50 reactions) |
| | P056-100R (100 reactions) |
| Basic UDI-DI | 872021148P0565X |
| Ingredients | Synthetic oligonucleotides, |
| | oligonucleotides purified from bacteria, |
| | Tris-HCI, EDTA |

| Additional Test Components | Catalogue Numbers |
|--|----------------------|
| | EK1-FAM |
| | EK1-CY5 |
| SALSA [®] MLPA [®] Reagent Kit | EK5-FAM |
| | EK5-CY5 |
| | EK20-FAM |
| SALSA [®] Binning DNA SD067 | SD067 |

Storage and Shelf Life

| Recommended conditions | -25°C | * |
|------------------------|-------|---|
|------------------------|-------|---|

A shelf life of until the expiry date is guaranteed, also after opening when stored in the original packaging under recommended conditions. For the exact expiry date, see the label on the vial. This product should not be exposed to more than 25 freeze-thaw cycles. Do not use the product if the packaging is damaged or opened. Leave chemicals in original containers. Waste material must be disposed of in accordance with the national and local regulations.

| Regulatory S | Regulatory Status | |
|--------------|--|--|
| IVD | EUROPE CE 2797 ISRAEL COSTA RICA | |
| RUO | ALL OTHER COUNTRIES | |

| Label Symbols | | |
|----------------------------|------------------------------|--|
| IVD In Vitro Diagnostic | RUO Research Use Only | |

More Information:

| www.mrcholland.com | | |
|--------------------|--|--|
| | MRC Holland BV; Willem Schoutenstraat 1 1057 DL, Amsterdam, the Netherlands | |
| E-mail | info@mrcholland.com (information & technical questions); order@mrcholland.com (orders) | |
| Phone | +31 888 657 200 | |

Any serious incident that has occurred in relation to this product should be reported to MRC Holland and the competent authority of the Member State in which the user and/or the patient is located.

Changes in this Product Version

As compared to C1 version

Two flanking probes of *TP53* and all flanking probes of *CHEK2* have been removed. One CHEK2 probe has been added and one CHEK2 probe has been replaced. Moreover, nine probes have been changed in length but not in the sequence detected.

1. Intended Purpose

The SALSA MLPA Probemix P056 TP53 is an in vitro diagnostic (IVD)¹ or research use only (RUO) semi-quantitative manual assay² for the detection of deletions or duplications in the *TP53* gene in genomic DNA isolated from human peripheral whole blood specimens. P056 TP53 is intended to confirm a potential cause for and clinical diagnosis of Li-Fraumeni syndrome (LFS) or Li-Fraumeni-like syndrome (LFL) and for molecular genetic testing of at-risk family members. In addition, this assay can be used to detect deletions or duplications in the human *CHEK2* gene exons 8, 10 and 13 and the c.1100delC mutation, for differential diagnosis of predisposition to *CHEK2*-related cancer types in patients that were initially suspected of LFS/LFL.

Copy number variations (CNVs) detected with P056 TP53 should be confirmed with a different technique. In particular, CNVs detected by only a single probe always require confirmation by another method. Most defects in the *TP53* gene are point mutations, none of which will be detected by MLPA. It is therefore recommended to use this assay in combination with sequence analysis.

Please note that this probemix covers all exons of *TP53* but not of *CHEK2*. For *CHEK2*, SALSA MLPA Probemix P190 CHEK2 provides a better coverage and may detect aberrations that are not detected by this P056 TP53 probemix.

Assay results are intended to be used in conjunction with other clinical and diagnostic findings, consistent with professional standards of practice, including confirmation by alternative methods, clinical genetic evaluation, and counselling, as appropriate. The results of this test should be interpreted by a clinical molecular geneticist or equivalent.

This device is not intended to be used for standalone diagnostic purposes, pre-implantation or prenatal testing, population screening, or for the detection of, or screening for, acquired or somatic genetic aberrations. In a research setting this assay can be used on tumour tissue-derived DNA.

¹Please note that this probemix is for IVD use in the countries specified on page 1 of this product description. In all other countries, this is a RUO product.

 $^2{\rm To}$ be used in combination with a SALSA MLPA Reagent Kit, SALSA Binning DNA SD067 and Coffalyser.Net analysis software.

2. Sample Requirements

| Specimen | 50-250 ng purified human genomic DNA, dissolved in 5 μ l TE _{0.1} buffer, pH 8.0-8.5 |
|----------------------|---|
| Collection Method | Standard methods |
| Extraction Method | Methods tested by MRC Holland: QIAGEN Autopure LS (automated) and QIAamp DNA mini/midi/maxi kit (manual) Promega Wizard Genomic DNA Purification Kit (manual) salting out (manual) |

| Sample Types | | |
|--|---|---|
| Test Sample | provided by user | |
| Reference Samples (Required) | provided by user extraction method, tiss concentration and treat possible in all test and have a normal copy nustandard deviation for the mutation-specific at least three* indeper samples required in eat proper data normalisa unrelated individuals f history of LFS or LFL. | sue type, DNA atment as similar as reference samples. Imber and ≤0.10 all probes except for probe. Indent reference ach experiment for tion. Derived from rom families without a |
| No-DNA Control (Preferably) | provided by user TE_{0.1} buffer instead of to check for DNA cont | DNA amination |
| Binning DNA (Initial Experiment) | SALSA Binning DNA S MRC Holland required in initial expe suitable bin set should never be used a | D067, provided by riment to determine as a reference sample |
| - | provided by user, or | • |
| Positive Control Samples (Preferably) | Available from third parties | See the table of positive samples on the probemix product page on our website. |
| Validation Samples (Required) | In the validation exper probemix, the peaks o probes are expected to majority of samples fr individuals. | iments of this f the mutation-specific o be absent in the om healthy |

*When testing >21 samples, include one extra reference for each 7 test samples.





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3. Test Procedure

See the MLPA General Protocol.

4. Quality Control, Data Analysis, and Troubleshooting

| Quality Control Fragments in the Probemix | |
|---|--|
| Length (nt) | Function |
| 64-70-76-82 | DNA quantity control fragments |
| 88-96 | DNA denaturation control fragments |
| 92 | Benchmark fragment |
| 100 | Chromosome X presence control fragment |
| 105 | Chromosome Y presence control fragment |

<u>Coffalyser.Net</u> should be used for data analysis in combination with the appropriate product and lot-specific Coffalyser sheet. See the <u>Coffalyser.Net Reference Manual</u> for details on data analysis and quality control.

For troubleshooting help, see the additional resources offered on our support portal.

5. Interpretation of Results

Determining Typical Values in Normal and Affected Populations

The typical final ratio (FR) values stated in the copy number tables were determined in a validation study with samples containing abnormal copy numbers. The standard deviation of each individual probe over all the reference samples was ≤ 0.10 .

Expected Results of Reference Probes

| Final Ratio (FR) | Copy Number | Description |
|---------------------|----------------|-------------|
| 0.80 - 1.20 | 2 | Normal |

Typical Results of Probes Targeting Two Copies

| Final Ratio (FR) | Copy Number | Description |
|---------------------|----------------|---|
| 0 | 0 | Homozygous deletion |
| 0.40 - 0.65 | 1 | Heterozygous deletion |
| 0.80 - 1.20 | 2 | Normal |
| 1.30 - 1.65 | 3 | Heterozygous duplication |
| 1.75 – 2.15 | 4 | Homozygous duplication or Heterozygous triplication |
| All other values | - | Ambiguous |

The tables illustrate the relationship between final ratio and corresponding copy number. Test results are expected to center around these values. Ambiguous values can indicate a technical problem, but may also reflect a biological cause such as mosaicism or a SNV influencing a single probe. It is important to use Coffalyser.Net to determine the significance of values found.

Possible Results of Mutation-Specific Probes

| Signal Strength | Mutation Status |
|---|---|
| ≥10% median peak height | Mutation CHEK2 c.1100delC detected |
| reference probes | (expected only in positive samples) |
| <10% median peak height reference probes | Mutation <i>CHEK2</i> c.1100delC not detected (expected in most samples from healthy individuals) |

These final ratios are only valid for germline testing.



6. Performance Characteristics

| | Description | | | | | | | | | |
|--|--|---|--|---|--|--|--|--|--|--|
| Expected values for copy numbers in normal and affected populations | To determine the expected values in normal and affected populations a study was conducted on over 1500 MLPA reactions using samples with and without abnormal copy numbers. When the standard deviation of each individual probe over all the reference samples is ≤0.10, the ranges stated in the copy number table above can be used. Cut-off values for copy number determination were verified with SALSA MLPA Probemix P056 TP53 in 41 samples from healthy individuals with normal copy number and seven samples with known CNVs. The expected FRs for the corresponding copy number were found in all samples tested. | | | | | | | | | |
| Expected values for point mutation detection in normal and affected populations | The mutation-specific probe will only generate a signal when the <i>CHEK2</i> c.1100delC mutation is present. Please note that background signals of the mutation-specific probe can be expected above the threshold in some cases. Users should always compare the relative peak height of the mutation-specific probe in mutation-positive samples to the relative peak height in reference samples. A clear signal (at least 10% of the median peak height of all reference probes in that sample) indicates that the mutation is present. It is not possible to determine the copy number of mutation-specific probes. The expected value for the mutation-specific probe was verified with SALSA MLPA Probemix P056 TP53 using one mutation-positive sample, seven samples positive for other aberrations detected by P056 TP53, and 41 samples from healthy individuals without the <i>CHEK2</i> c.1100delC mutation, and the expected results were found in all tested samples. | | | | | | | | | |
| Limit of detection | A study using representative probemixes was conducted to evaluate the minimum and maximum amount of DNA acceptable as the assay input. Results support the use of 50-250 ng of human DNA as the recommend input amount. The use of insufficient or too much sample DNA can affect performance. These lower and higher limits of detection were verified using SALSA MLPA Probemix P056 TP53 on four samples with known CNVs/mutation status and on one sample without any mutation and expected results were obtained using both the lower and upper input amount of DNA. | | | | | | | | | |
| Interfering substances | SNVs or other po | lymorphisms (e.g. inde | els) in the DNA ta | rget sequence and impurities in the DNA sample | | | | | | |
| | A study using SALSA MLPA Probemix P056 TP53 was performed to assess the potential for interference of endogenous and exogenous substances on genomic DNA on samples with known CNVs/mutation status. For most probes, expected FRs/signals (FRs within the expected cut-off category) were obtained even in the presence of potential interferents at concentrations shown in the table below. | | | | | | | | | |
| | Interferent | Source | Testing | Deputet | | | | | | |
| | Interferent | Source | Testing Concentration | Results* | | | | | | |
| | Interferent EDTA | Source Exogenous – specimen collection tubes | Testing Concentration 1.5 mM | Results* <u>Copy number</u> : Expected FR for 198/204 measurements <u>Mutation</u> : Expected signal for 12/12 measurements | | | | | | |
| | Interferent EDTA NaCl | Source Exogenous – specimen collection tubes Exogenous – DNA extraction | Testing Concentration1.5 mM40 mM | Results* <u>Copy number</u> : Expected FR for 198/204 measurements <u>Mutation</u> : Expected signal for 12/12 measurements <u>Copy number</u> : Expected FR for 204/204 measurements <u>Mutation</u> : Expected signal for 12/12 measurements <u>Mutation</u> : Expected signal for 12/12 measurements <u>Mutation</u> : Expected signal for 12/12 measurements | | | | | | |
| | Interferent EDTA NaCl Fe ³⁺ (FeCl ₃) | SourceExogenous - specimen collection tubesExogenous - DNA extractionExogenous - DNA extraction | Testing Concentration1.5 mM40 mM1 μM | Results* Copy number: Expected FR for 198/204 measurements Mutation: Expected signal for 12/12 measurements Copy number: Expected FR for 204/204 measurements Mutation: Expected signal for 12/12 measurements Mutation: Expected signal for 12/12 measurements Copy number: Expected FR for 203/204 measurements Mutation: Expected signal for 12/12 measurements | | | | | | |
| | Interferent EDTA NaCl Fe ³⁺ (FeCl ₃) Heparin | SourceExogenous - specimen collectionExogenous - DNA extractionExogenous - DNA extractionExogenous - specimen collection | Testing Concentration1.5 mM40 mM1 µM0.02 U/mL | Results*Copy number: Expected FR for 198/204 measurements Mutation: Expected signal for 12/12 measurementsCopy number: Expected FR for 204/204 measurementsMutation: Expected signal for 12/12 measurementsCopy number: Expected FR for 203/204 measurementsCopy number: Expected Signal for 12/12 measurementsCopy number: Expected FR for 203/204 measurementsMutation: Expected signal for 12/12 measurementsMutation: Expected signal for 12/12 measurements | | | | | | |
| | Interferent EDTA NaCl Fe ³⁺ (FeCl ₃) Heparin Hemoglobin | Source Exogenous - specimen collection tubes Exogenous - DNA extraction | Testing Concentration 1.5 mM 40 mM 1 μM 0.02 U/mL 0.02 μg/μl | Results* Copy number: Expected FR for 198/204 measurements Mutation: Expected signal for 12/12 measurements Copy number: Expected FR for 204/204 measurements Mutation: Expected signal for 12/12 measurements Mutation: Expected signal for 12/12 measurements Copy number: Expected FR for 203/204 measurements Mutation: Expected signal for 12/12 measurements Mutation: Expected signal for 12/12 measurements Mutation: Expected signal for 12/12 measurements Copy number: Expected FR for 204/204 measurements Mutation: Expected signal for 12/12 | | | | | | |
| | Interferent EDTA NaCl Fe ³⁺ (FeCl ₃) Heparin Hemoglobin * Results are sum | Source Exogenous - specimen collection tubes Exogenous - DNA Between tubes Exogenous - DNA Between tubes | Testing Concentration 1.5 mM 40 mM 1 μM 0.02 U/mL 0.02 μg/μl across all four sa | Results* Copy number: Expected FR for 198/204 measurements Mutation: Expected signal for 12/12 measurements Copy number: Expected FR for 204/204 measurements Mutation: Expected signal for 12/12 measurements Mutation: Expected signal for 12/12 measurements Copy number: Expected FR for 203/204 measurements Mutation: Expected signal for 12/12 measurements Mutation: Expected signal for 12/12 measurements Mutation: Expected signal for 12/12 measurements Copy number: Expected FR for 204/204 measurements Mutation: Expected signal for 12/12 measurements | | | | | | |
| | Interferent EDTA NaCl Fe ³⁺ (FeCl ₃) Heparin Hemoglobin * Results are sum NaCl, FeCl ₃ and h observed for a low as well as false mutation status. | Source Exogenous – specimen collection tubes Exogenous – DNA extraction Image: Specimen collection tubes Endogenous – blood sample Image: Specimen collection tubes Image: Specimen collectiblet Image: | Testing Concentration 1.5 mM 40 mM 1 µM 0.02 U/mL 0.02 µg/µl across all four sate with copy number to EDTA. Hemogle. None of the intervence of the interven | Results* Copy number: Expected FR for 198/204 measurements Mutation: Expected signal for 12/12 measurements Copy number: Expected FR for 204/204 measurements Mutation: Expected signal for 12/12 measurements Copy number: Expected FR for 203/204 measurements Copy number: Expected FR for 203/204 measurements Mutation: Expected signal for 12/12 measurements | | | | | | |

| Cross-reactivity | Cross-reactivity is the potential for probes to bind to homologous regions (e.g. pseudogenes) or other cross- reactive sequences. Quality tests were carried out to determine whether probes are specific to their target sequence and all probes met the quality criteria for specificity. | | | | | |
|--------------------|--|--|--|--|--|--|
| Accuracy | Results of accuracy are derived from trueness and precision studies. For trueness, four previously genotyped samples were tested using SALSA MLPA Probemix P056 TP53 and found to have the expected results. Assay precision was tested by repeatedly testing samples with known copy number/mutations status over multiple days, and by multiple operators. Results showed a correct call in 970/972 data points, leading to a precision of >99%. | | | | | |
| Clinical validity* | TP53: Deletions/duplications in the TP53 gene are detected in ~1% of LFS/LFL patients. | | | | | |
| | CHEK2: Deletions/duplications in the CHEK2 gene are detected by P056 TP53 in <1% of individuals with a predisposition to CHEK2-related cancer. | | | | | |
| | The <i>CHEK2</i> c.1100delC mutation is the most common founder mutation of this gene and it is of Northern and Eastern European origin. Therefore, the frequency of <i>CHEK2</i> c.1100delC mutation varies across populations. | | | | | |
| | *Based on a 2009-2024 literature review | | | | | |

Summary of Safety and Performance (SSP) The SSP is available in the European database on medical devices (Eudamed), <u>https://ec.europa.eu/tools/eudamed</u>, or upon request.



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Content - Probe Details Sorted by Chromosomal Position

| Chr. position | Target | Exon | Distance to next probe | Mutation | Length (nt) | Probe number | Warnings |
|------------------|-----------|--------------------|---------------------------|------------|----------------|--------------|----------|
| 17p13.1 | POLR2A | Exon 3 | 1.8 kb | | 187 | 19647-L30910 | - |
| 17p13.1 | POLR2A | Exon 8 | 87.8 kb | | 459 | 09951-L30916 | - |
| 17p13.1 | MPDU1 | | 65.6 kb | | 147 | 19643-L26685 | 7 |
| 17p13.1 | ATP1B2 | Exon 1 | 5.0 kb | | 335 | 19884-L26749 | 7 |
| 17p13.1 | ATP1B2 | Exon 7 | 9.8 kb | | 382 | 19645-L26316 | 7 |
| 17p13.1 | TP53 | Downstream | 3.3 kb | | 175 | 19637-L26296 | Ø |
| 17p13.1 | TP53 | Exon 11 | 1.0 kb | | 447 | 17424-L30914 | |
| 17p13.1 | TP53 | Exon 10 | 2.7 kb | | 346 | 17422-L21144 | |
| 17p13.1 | TP53 | Intron 9 (Exon 9a) | 0.2 kb | | 224 | 19638-L26297 | Ø |
| 17p13.1 | TP53 | Exon 9 (8) | 0.2 kb | | 391 | 17423-L21145 | |
| 17p13.1 | TP53 | Exon 8 (7) | 0.5 kb | | 286 | 01999-L21411 | l |
| 17p13.1 | TP53 | Exon 7 (6) | 0.7 kb | | 401 | 19650-L21141 | 2 |
| 17p13.1 | TP53 | Exon 6 (5) | 0.2 kb | | 318 | 17421-L21315 | |
| 17p13.1 | TP53 | Exon 5 (4b) | 0.1 kb | | 359 | 22010-L21147 | |
| 17p13.1 | TP53 | Exon 5 (4b) | 0.8 kb | | 256 | 02376-L30912 | l |
| 17p13.1 | TP53 | Exon 4 (3) | 0.3 kb | | 299 | 17420-L21142 | , |
| 17p13.1 | TP53 | Exon 3 (2d) | 0.2 kb | | 216 | 02375-L26750 | |
| 17p13.1 | TP53 | Exon 2 (2a) | 10.8 kb | | 199 | 01996-L26321 | |
| 17p13.1 | TP53 | Exon 1 | 0.2 kb | | 166 | 01588-L06028 | |
| 17p13.1 | TP53 | Upstream (Exon 1) | 20.5 kb | | 409 | 02263-L01749 | Ø |
| 17p13.1 | EFNB3 | | 12.3 M b | | 140 | 03962-L21069 | 7 |
| 17p11.2 | AKAP10 | | | | 238 | 19648-L00940 | 7 |
| 22q12.1 | CHEK2 | Exon 13 | 1.8 kb | | 181 | 21654-L30911 | # « » |
| 22q12.1 | CHEK2 | Exon 11 | 1.1 kb | c.1100delC | 208 | 18318-L26751 | § » |
| 22q12.1 | CHEK2 | Exon 10 | 6.6 kb | | 154 | 21913-L06190 | « » |
| 22q12.1 | CHEK2 | Exon 8 | | | 432 | 06631-L30915 | « » |
| 1p | Reference | | | | 372 | 14835-L26609 | |
| 2p | Reference | | | | 420 | 08839-L08899 | |
| 2q | Reference | | | | 480 | 21882-L15817 | |
| 3q | Reference | | | | 135 | 16316-L21434 | |
| 4p | Reference | | | | 129 | 19616-L26684 | |
| 5q | Reference | | | | 193 | 11556-L26606 | |
| 6q | Reference | | | | 328 | 13397-L26608 | |
| 9q | Reference | | | | 247 | 08728-L08739 | |
| 10p | Reference | | | | 471 | 00979-L21316 | |
| 11p | Reference | | | | 230 | 17130-L26574 | |
| 14q | Reference | | | | 310 | 07028-L06639 | |
| 15q | Reference | | | | 160 | 09787-L10202 | |
| 16p | Reference | | | | 274 | 17450-L30913 | |
| 21q | Reference | | | | 490 | 19137-L25693 | |

Probe lengths may vary slightly depending on capillary electrophoresis instrument settings. Please see the most up to date Coffalyser sheet for exact probe lengths obtained at MRC Holland.

The *TP53* and *CHEK2* exon numbers are derived from MANE project and are based on MANE Select transcript. For more information, see the probe sequences document available on the product page at <u>www.mrcholland.com</u>. Annotations of one probe with a target at the edge of or slightly outside the coding region is altered. The exon numbering from the previous version of this product description is disclosed between brackets.

Chromosomal bands are based on: hg18

7. Precautions and Warnings

Probe warnings

- § This probe will only generate a signal when the CHEK2 c.1100delC mutation is present. It has been tested on artificial DNA and on positive human samples. However, the probe can give an extra signal due to a simultaneous activity of the ligase and polymerase enzymes.
- This probe is a flanking probe, included to help determine the extent of a deletion/duplication. Copy number alterations of flanking probes are unlikely to be related to the condition tested.
- « This probe is located in or near a GC-rich region. A low signal can be caused by salt contamination in the DNA sample leading to incomplete DNA denaturation.
- # The specificity of this probe relies on a single nucleotide difference compared to a related gene or pseudogene. As a result, an apparent duplication of only this probe can be the result of a non-significant

single nucleotide sequence change in the related gene or pseudogene.

- » Detects the same sequence as the CHEK2 probe in SALSA® MLPA® Probemix P190 CHEK2.
- J Ligation site of this probe is located on a common mutational hotspot both in germline and somatic samples as reported by the *TP53* Database (<u>https://tp53.isb-cgc.org/</u>). In case of apparent deletions, it is recommended to sequence the region targeted by this probe.
- Ø This probe targets a sequence outside of the known coding region of the MANE Select transcript.

Probemix-specific precautions

 This product is not known to contain any harmful agents. Based on the concentrations present, none of the ingredients are hazardous as defined by the Hazard

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Communication Standard. A Safety Data Sheet (SDS) is not required for this product: none of the ingredients contain dangerous substances at concentrations requiring distribution of an SDS (as per Regulation (EC) No 1272/2008 [EU-GHS/CLP] and 1907/2006 [REACH] and amendments).

- Sample or technical artefacts may appear as a (mosaic) copy number change of the whole/partial gene. Whole/partial gene deletions or duplications should therefore be confirmed by analysis of an independent DNA sample, to exclude false positive results.
- 3. Small changes (e.g. SNVs, small indels) in the sequence targeted by a probe can cause false positive results, even when >20 nt from the probe ligation site. Sequence changes can reduce the probe signal by preventing ligation of the probe oligonucleotides or by destabilising the binding of a probe oligonucleotide to the sample DNA. Deviations detected by this product should be confirmed, and single-probe deviations always require confirmation. Sequencing of the target region is recommended. Please contact MRC Holland for more information: info@mrcholland.com.
- 4. Copy number alterations of reference probes are unlikely to be related to the condition tested.
- 5. *CHEK2* c.1100delC mutation-specific probe: We have received reports of experiments in which a peak for the *CHEK2* c.1100delC probe appeared in all samples, which was caused by incomplete ligase inactivation. For more information on this issue, please contact info@mrcholland.com. Please note, that this probe will also generate a signal in the unlikely situation that the mutation is present in the *CHEK2* pseudogene. Results obtained with this *CHEK2* c.1100delC probe should therefore be treated with caution.

<u>Technique-specific precautions</u> See the <u>MLPA General Protocol</u>.

8. Limitations

Probemix-specific limitations

 The CHEK2 c.1100delC mutation-specific probe is only intended to determine the presence (or absence) of the mutation.

Technique-specific limitations See the MLPA General Protocol.

Implemented changes in the product description

Version D1-06 – 21 March 2025 (03S)

- Updated to a new template.
- Intended purpose was updated, specifying the testing population and clinical application of CHEK2 copy number determination, updating disease nomenclature, and specifying assay is manual.
- Exon numbering updated for TP53 probes.
- Description of probe targets at the edge of or slightly outside the coding region has been adjusted. No change in actual target sites.
- Warning about low signal caused by salt contamination added to 154 nt and 432 nt probes.
- Warning for extra signal due to incomplete ligase inactivation added to 208 nt probe.
- SNV rs564605612 can affect the probe signal. However, the warning for this SNV present in previous product description versions have been replaced by a general warning for small sequence changes, included in the section Precautions and Warnings.
- Probemix is now registered for IVD use in Costa Rica.
- Probemix is now IVDR certified.

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