

## Product Description SALSA® Binning DNA SD078-S01

### Version S01.

**Catalogue number: SD078:** SALSA® Binning DNA, 6 reactions

To be used with the following SALSA MLPA probemix: P190-D1 CHEK2, in combination with a SALSA® MLPA® reagent kit, available for various number of reactions. MLPA reagent kits are either provided with FAM or Cy5.0 dye-labelled PCR primer, suitable for Applied Biosystems and Beckman capillary sequencers, respectively (see [www.mlpa.com](http://www.mlpa.com)).

**Certificate of Analysis:** Information regarding storage conditions, quality tests, and a sample electropherogram from the current sales lot is available at [www.mlpa.com](http://www.mlpa.com).

**Precautions and warnings:** For professional use only. Always consult the most recent product description AND the corresponding probemix product description AND the MLPA General Protocol or the MS-MLPA General Protocol before use: [www.mlpa.com](http://www.mlpa.com).

**Intended use:** The SALSA Binning DNA SD078 is an in vitro diagnostic (IVD)<sup>1</sup> or research use only (RUO) reagent to be used in combination with SALSA MLPA Probemix P190-D1, a SALSA MLPA Reagent Kit, and Coffalyser.Net analysis software for the processes of linking a probe signal to its identity by use of the probe length. The mutation specific probe target present in the SD078 is *CHEK2* 1100delC.

Please note that this Binning DNA is a mixture of female genomic DNA from healthy individuals and artificial DNA fragments of 50-80 nt length not covering the whole exon.

Binning DNA should never be used as a reference sample in the MLPA data analysis. Neither should it be used in quantification of mutation signals.

<sup>1</sup>Please note that this Binning DNA is for in vitro diagnostic (IVD) use in the countries specified at the end of this product description. In all other countries, the product is for research use only (RUO).

**Experimental set up:** MLPA reactions for binning purposes should be performed with 5 µl of Binning DNA. Inclusion of one reaction with SALSA Binning DNA SD078 in the initial MLPA experiment is essential as it can aid in data binning of the peak pattern using Coffalyser.Net software. Furthermore, Binning DNA should be included in the experiment whenever changes have been applied to the set-up of the capillary electrophoresis device (e.g. when a different polymer type is used).

**Data analysis:** Coffalyser.Net software must be used for analysis of MLPA experiments. When performing the fragment analysis step in Coffalyser.Net, select SD078 in the *bin smpl*-column. By selecting the SD078 sample as your binning sample, probes will be correctly identified in the peak pattern across all patient samples. Coffalyser.Net software is available free of charge on [www.mlpa.com](http://www.mlpa.com).

**Warning: Binning DNA should never be used as a reference sample in the MLPA data analysis. Neither should it be used in quantification of mutation signal(s).** It is strongly advised to use sample and reference DNA extracted with the same method and derived from the same source of tissue.

**Binning DNA content:** MRC-Holland is unable to provide mutation positive human DNA samples. As an alternative, we have prepared a mixture of female genomic DNA from healthy individuals and a titrated amount of synthetic DNA that contains the target sequence recognised by the mutation-specific probe present in the MLPA probemix version as specified above and in Table 1.

The synthetic DNA included in the SD078 DNA contains a partial sequence of the *CHEK2* gene. This sequence includes one mutation which will be detected by an MLPA probe that is present in the aforementioned probemix version (for details, see Table 1) and will generate a mutation-specific signal for this probe.


Please note that the synthetic DNA contains the target sequence detected by the above mentioned probe and the sequence of the 105 nt chromosome Y specific control fragment. The amount of plasmid in this Binning DNA (relative to the genomic DNA) results in a relative probe signal for the 105 nt probe on this female DNA which is similar to the relative probe signal obtained on male DNA samples. As a result, the 100 and 105 nt control fragments indicate the presence of two copies chromosome X and one copy chromosome Y.

**Storage and stability:** Upon arrival, Binning DNA must be stored between -25 °C and -15 °C, in the original packaging. When stored under the recommended conditions, a shelf life of at least 1 year is guaranteed, also after opening. The expiry date is mentioned on the label of the vial.

**Table 1. Mutation-specific probe target in SD078-S01 Binning DNA**

Probemix	Gene/Exon	Probe length	Probe ID	Present in probemix version	Details
P190	CHEK2 exon 11	313 nt	22034-SP0468-L31261	D1	1100delC

**Note:** Mutation nomenclature and exon numbering used here may differ from literature! Please notify us of any mistakes: [info@mlpa.com](mailto:info@mlpa.com). Please consult the respective probemix product description to find corresponding gene transcripts.

More information: <a href="http://www.mlpa.com">www.mlpa.com</a> ; <a href="http://www.mlpa.eu">www.mlpa.eu</a>	
	MRC-Holland bv; Willem Schoutenstraat 1 1057 DL, Amsterdam, The Netherlands
E-mail	<a href="mailto:info@mlpa.com">info@mlpa.com</a> (information & technical questions); <a href="mailto:order@mlpa.com">order@mlpa.com</a> (orders)
Phone	+31 888 657 200

	EUROPE*  ISRAEL
	ALL OTHER COUNTRIES

\*comprising EU (candidate) member states and members of the European Free Trade Association (EFTA).  
The product is for RUO in all other European countries.

**Implemented Changes – compared to the previous SD078 product description versions**

- Version S01-03 – 30 October 2020 (02)*
- Product description adapted to a new template.
  - Intended purpose updated.
- Version S01-02 – 27 April 2020 (01)*
- Product is now registered for IVD use in Israel.
- Version S01-01 - 19 September 2018 (01)*
- Not applicable, new document.