

Product Description

SALSA® Binning DNA SD032-S02

Version S02

As compared to version S01, a new plasmid was used. The probe targets remained the same.

Catalogue number

- **SD032:** SALSA Binning DNA, 6 reactions

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 before use: www.mrcholland.com. Binning DNA is not known to contain any harmful agents.

Safety data sheet

Based on the concentrations present, none of the ingredients are hazardous as defined by the Hazard Communication Standard. **A Safety Data Sheet (SDS) is not required for these products:** none of the preparations contain dangerous substances (as per Regulation (EC) No 1272/2008 [EU-GHS/CLP] and amendments) at concentrations requiring distribution of an SDS (as per Regulation (EC) No 1272/2008 [EU-GHS/CLP] and 1907/2006 [REACH] and amendments). If spills occur, clean with water and follow appropriate site procedures.

General information

The SALSA Binning DNA SD032 is a research use only (RUO) reagent to be used in combination with SALSA MLPA probemix P256-C1 FLCN, a SALSA MLPA Reagent Kit and Coffalyser.Net™ analysis software for the processes of linking all probe signals to their identity by use of the probe lengths. SD032 contains the targets of all probes included in the above-listed probemix, including two mutation-specific probe targets *FLCN* c.1285delC and c.1285dupC

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.

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 SD032 in the initial MLPA experiment is essential as it can aid in data binning of the peak pattern when 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 should be used for analysis of MLPA experiments. When performing the fragment analysis step in Coffalyser.Net, select SD032 in the *bin smpl* –column. By selecting the SD032 sample as your binning sample, probes will be correctly identified in the peak pattern across all samples. Coffalyser.Net software is freely downloadable at www.mrcholland.com.

Binning DNA content

SD032 consists of a mixture of female genomic DNA from healthy individuals and a titrated amount of plasmid DNA that contains partial sequences of the *FLCN* gene. These partial sequences include two different mutations that will be detected by the mutation-specific probes present in the above-listed probemix. See Table 1 and the corresponding probemix product description for more details on mutation-specific probe targets present. The indicated mutation-specific probes will generate a signal on SD032.

Please note that the plasmid DNA also contains the target sequence of the 105 nt chromosome Y specific control fragment. As a result, the 100 and 105 nt control fragments indicate the presence of two copies chromosome X and one copy chromosome Y.




Table 1. Mutation -specific probe targets in Binning DNA SD032-S02

Probemix	Gene/Exon	Probe length (nt)	Probe ID	Probemix version	Details
P256	FLCN exon 11	188	08598-L31913	C1	c.1285delC
		195	08598-L31789*		c.1285dupC

*Warning: In the majority of the samples without the c.1285dupC mutation, this probe will generate a background signal of 5-10% of the median peak height of all reference probes, which indicates absence of the mutation.

Note: Please consult the corresponding probemix product description for more information about exon numbering, mutation nomenclature and gene transcripts used.

More information: www.mrcholland.com ; www.mrcholland.eu	
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	EUROPE* (until lot 1121) 
	EUROPE* (as of lot 1124) ALL OTHER COUNTRIES

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

Implemented changes in the product description
<p><i>Version S02-02 – 03 July 2025 (3)</i></p> <ul style="list-style-type: none"> - Product description updated as SD032 is for research use only from lot S02-1124 onwards. <p><i>Version S02-01 - 18 March 2022 (03)</i></p> <ul style="list-style-type: none"> - Product description adapted to a new version of SD032. - Product description adapted to a new template. <p><i>Version S01-07 – 17 August 2021 (02)</i></p> <ul style="list-style-type: none"> - The intended use is adapted to a new template. - UK added to the list of countries in Europe that accept the CE-mark. <p>Various minor textual changes.</p>