# Product Description
# SALSA® Binning DNA SD081-S01

**Version S01**

**Catalogue number**
- **SD081:** 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 SD081 is a research use only (RUO) reagent to be used in combination with SALSA MLPA probemix P321-B3 VPS13B mix 1, 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. SD081 contains the targets of all probes included in the above-listed probemix, including the mutation-specific probe target *VPS13B* c.3348_3349delCT.

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 SD081 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 SD081 in the *bin smpl* –column. By selecting the SD081 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**
SD081 consists of a mixture of female genomic DNA from healthy individuals and a titrated amount of plasmid DNA that contains a partial sequence of the *VPS13B* gene. This partial sequence includes one mutation that will be detected by the mutation-specific probe 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 probe will generate a signal on SD081.

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 target in Binning DNA SD081-S01

| Probemix | Gene/Exon | Probe length (nt) | Probe ID | Probemix version | Details |
|---|---|---|---|---|---|
| P321 | *VPS13B* exon 24 | 355 nt | 10072-L10541 | B3 | c.3348_3349delCT; C1117fs |

**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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**Implemented changes in the product description**

*Version S01-02 – 12 July 2022 (03)*
- Product description rewritten and adapted to a new template.
- Small change of probe length in Table 1 in order to better reflect the true length of the amplification product.

*Version S01-01 – 29 October 2018 (15)*
- Not applicable, new document.