

Product Description SALSA® Binning DNA SD064-S01

Catalogue number: SD064

Binning DNA SD064: Contains 30 µl Binning DNA, sufficient for 6 MLPA reactions, to be used with the following SALSA MLPA probemix: P473-A1 CTNS. MLPA reactions for binning purposes should be performed with 5 µl of Binning DNA.

Intended use: This SD064 DNA can be used as Binning DNA sample for the MLPA probemix version as specified above and in Table 1. See Table 1 for more details on mutation-specific probe target present. Binning and filtering are the processes of linking a signal to its probe identity by use of the probe length. Inclusion of one reaction with SALSA Binning DNA SD064 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 capillaries have been renewed).

The Binning DNA can also be used as an artificial positive control for the specific point mutation. Please note that this Binning DNA is a mixture of female genomic DNA from healthy individuals and artificial DNA of 50-80 nt length not covering the whole exon.

This product is for research use only (RUO).

Product Description: 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 SD064 DNA contains partial sequence of the CTNS gene. This sequence includes one different mutation which will be detected by 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.

Both the MLPA reaction and the analysis of results should be performed according to the instructions described in the MLPA® General Protocol. More detailed information about the probemix and mutation-specific probe can be found in the respective probemix product description.

Coffalyser.Net software must be used for analysis of MLPA experiments. When performing the fragment analysis step in Coffalyser.Net, select the *bin smpl*-column for the SD064 sample. By selecting the SD064 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.

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, as for this purpose true mutation positive patient samples or cell lines should be used. It is strongly advised to use sample and reference DNA extracted with the same method and derived from the same source of tissue.

Storage Upon arrival, Binning DNA must be stored between -25 °C and -15 °C. When stored at recommended conditions, this product is stable for at least one year after shipment. The expiry date is mentioned on the label of the vial.

More information: www.mlpa.com ; www.mlpa.eu	
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Table 1. Mutation-specific probe target in SD064-S01 Binning DNA

Product	Gene/Exon	Probe length	Probe ID	Present in product version	Details
P473	CTNS exon 7	172 nt	21085-L29338	A1	c.414G>A; p.Trp138Ter

Note: Notation of mutations and exon numbering used here may differ from literature! Please notify us of any mistakes: info@mlpa.com. Please consult the respective probemix product description to find corresponding gene transcripts.

Please note that Binning DNA SD064 consists of female genomic DNA and a plasmid that 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.

Implemented Changes – compared to the previous SD064 product description versions

Version 01- 14 October (14)

- Not applicable, new document.