Product Description SALSA® Reference Selection DNA SD019-S01

Version S01.

Catalogue number: SD019: SALSA® Reference Selection DNA**,** 20 reactions

To be used with the following SALSA MLPA probemix: P021-A2 SMA, 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).
Please note that when using SD019 Reference DNA for P021-A2 SMA probemix, the results of the probes targeting the GTF2H2 gene should be disregarded!

Intended use: This SD019 DNA can be used to identify suitable reference DNA samples for the MLPA probemix version as specified above and in Table 1. Reference DNA samples for use in MLPA experiments should preferably be derived from the same type of tissue, and be purified by the same method, as the DNA samples to be tested. For certain applications, the selection of suitable reference DNA samples is complicated.
When testing DNA samples from healthy Caucasian individuals, approximately 40% of all DNA samples tested are suitable as reference DNA for the SMN1 and SMN2 genes in the SMA region. Please note that the above-mentioned percentages are population dependent.
The SD019 DNA facilitates the identification of suitable reference DNA samples. We recommend the use of this SD019 Reference Selection DNA only for initial experiments on DNA samples from healthy individuals with the intention to identify suitable reference DNA samples. We do not recommend it for use in all experiments. **This product is for research use only (RUO).**

Experimental set up: MLPA reactions for binning purposes should be performed with 5 µl of Reference Selection DNA. Include three reactions with SALSA Reference selection DNA SD019 in the initial MLPA experiment to identify suitable Reference selection DNA samples.

Product Description: SD019 Reference Selection DNA is human genomic DNA purified from a selected cell line.
P021-A2 SMA probemix: the cell line has two copies of the majority of the probe targets (for details see Table 1).

Both the MLPA reaction and the analysis of results should be performed according to the instructions in the MLPA® General Protocol. Coffalyser.Net software must be used for analysis of MLPA experiments. This software is available free of charge on www.mlpa.com.

Storage Upon arrival, Reference Selection 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. P021 Probe targets in SD019-S01 Reference Selection DNA

Probemix	Gene/Exon	Probe length	Probe ID	Probemix version	Copy number	Remarks
P021	Reference	140 nt	01061-L00727	A2	2	
	Reference	148 nt	01254-L00815	A2	2	
	Reference	157 nt	01112-L00549	A2	2	
	Reference	166 nt	01448-L00932	A2	2	
	Reference	175 nt	00808-L00638	A2	2	
	GTF2H2/ exon 11*	185 nt	01256-L00972	A2	>2	
	Reference	193 nt	01115-L00005	A2	2	
	RAD17/ exon 17	202 nt	01257-L00184	A2	2	
	Reference	210 nt	01220-L00689	A2	2	
	GTF2H2/ exon 8*	218 nt	01813-L00818	A2	>2	
	Reference	229 nt	01120-L00060	A2	2	
	NAIP/ exon 5	238 nt	01259-L00811	A2	2	
	Reference	247 nt	00816-L00334	A2	2	
	Reference	255 nt	00807-L00325	A2	2	
	SMN1/ exon 7	270 nt	01260-L00966	A2	2	
	SMN2/ exon 7	276 nt	01260-L00967	A2	2	
	Reference	285 nt	00824-L00970	A2	2	
	SMN1/ exon 8	294 nt	01812-L01373	A2	2	
	SMN2/ exon 8	300 nt	01812-L01372	A2	2	
	Reference	310 nt	00871-L00461	A2	2	
	Reference	319 nt	01042-L00791	A2	2	
	GTF2H2/ exon 5*	328 nt	01262-L00971	A2	>2	
	Reference	337 nt	00812-L00330	A2	2	
	NAIP/ exon 13**	346 nt	01263-L00812	A2	4	Detects gene and pseudogene
	Reference	355 nt	00965-L00552	A2	2	
	SMN1/ exon 8	364 nt	01814-L00807	A2	4	Detects both SMN1 and SMN2
	Reference	373 nt	01046-L00624	A2	2	
	SMN1/ exon 1	382 nt	01265-L00808	A2	4	Detects both SMN1 and SMN2
	Reference	391 nt	01160-L00716	A2	2	
	SMN1/ exon 4	400 nt	01816-L00809	A2	4	Detects both SMN1 and SMN2
	Reference	409 nt	00963-L09340	A2	2	
	SMN1/ exon 6	419 nt	01815-L00810	A2	4	Detects both SMN1 and SMN2
	Reference	427 nt	01108-L00679	A2	2	
	Reference	433 nt	01057-L00630	A2	2	
	Reference	445 nt	00802-L00320	A2	2	
	SERF1B/ upstream**	454 nt	01269-L00813	A2	4	Detects both SERF1A and SERF1B
	Reference	463 nt	00846-L00377	A2	2	

*Probe result should be disregarded when using SD019.
**Third putative target locations are found in BLAT(UCSC) and Genome BLAST(NCBI), therefore possibly 6 copies are detected.

Note: 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 more information, like corresponding gene transcripts

Implemented Changes – compared to the previous SD019 product description versions

Version 07 – 25 April 2019 (12)
- Information about P060 probemix has been removed and can be found in the product description of SD082 Reference Selection DNA from now on.

Version 06 – 22 December 2017 (12)
- Information about P008 probemix has been removed and can be found in the product description of SD072 Reference Selection DNA from now on.

Version 05 – 5 October 2017 (12)
- Name changed to Reference Selection DNA throughout document.
- Information added about MLPA reagent kits and experimental set up on page 1.
- Minor textual and layout changes.

Version 04 – 13 July 2016 (10)
- Lot number removed throughout the document.
- Information about how much SD to use per MLPA reaction added on page 1.
- Contact details updated on page 1.
- Remarks added to several probes in table 1.
- Remarks and notes added to several probes in table 2.
- Note added to clarify that exon numbering may differ from literature on page 4.
- Minor textual and layout changes.

Version 03 (02)
- Information about P008-C1 probemix added in text and table 1.
- Minor textual change in section Intended Use.

Version 02 (02)
- Information about P021-A2 and P060-B2 SMA probemixes added.
- Minor textual changes.

Version 01 (01)
- Not applicable, new document.